REPORT

WASTE MANAGEMENT OF CANADA CORPORATION

WATFORD, ONTARIO

TWIN CREEKS ENVIRONMENTAL CENTRE: 2020 ANNUAL MONITORING REPORT VOLUME 5 OF 5: NOISE MONITORING PROGRAM

RWDI #2101781-4000

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SUBMITTED TO

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1 INTRODUCTION

RWDI AIR Inc. (RWDI) was retained by Waste Management of Canada Corporation (WM) to compile the annual monitoring report from the 2020 noise monitoring program at the Twin Creeks Environmental Centre (TCEC).

This Noise Monitoring Program (NMP) is required under Condition 13.10 of the Amended Environment Compliance Approval (ECA) Number A032203 (ECA) dated December 13, 2011. Under this condition, the completion of a Noise Monitoring Program (NMP) on an annual basis is required. A copy of the guideline entitled "Environmental Noise Monitoring Program for the Warwick Landfill" dated 21 November 2007 is attached in **Appendix A** of this report.

2 FACILITY DESCRIPTION

TCEC is a waste disposal facility (NAICS Code 562210, Waste Disposal and Treatment). This facility receives municipal, industrial, commercial, and institutional wastes. As of the end of 2019, Phase 4 construction and landfilling operations had begun. This continued throughout 2020.

3 NOISE MONITORING

3.1 Noise Monitoring Program

The NMP specifies details of TCEC's noise monitoring requirements. As required in the ECA, the NMP dated 21 November 2007 has been used.

Monitoring of the facility noise levels was to be completed quarterly at four (4) monitoring sites around the perimeter of the site. Monitoring sites were selected as indicated in the NMP. A minimum one (1) month sampling period is required for each quarter.

The sampling periods are as follows:

- **1st Quarter**: January 10 to February 9, 2020
- **2nd Quarter:** May 20 to June 19, 2020
- **3rd Quarter:** July 15 to August 14, 2020
- **4th Quarter:** November 2 to December 2, 2020

Monitor M1 is located on the outside of the berm along Nauvoo road, approximately 100 m north of the site entrance. Monitor M1 is heavily influenced by road traffic noise. Monitor M2 is located on the east berm, approximately 200 m from Zion line. Monitor M2 has limited influence from traffic along Zion Line. Monitor M3 is located near Confederation Line; an ATV trail is located next to the monitor. Monitor M3 is also influenced by a nearby dog park and adjacent facilities. Monitor M4 is located south of the woodlot near Nauvoo road, near the snowmobile and ATV trail on site property. Monitors M1 and M2 are both located on the sides of berms, with the microphone height approximately equal to the height of the top of the berm. Monitors M3 and M4 are located at ground level with the microphone approximately 3 m above ground height. The locations are shown as M1 through M4 in **Figure 1** in the NMP, which is found in **Appendix A**.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN} and L_{MAX} on hourly intervals. All measurements were conducted in compliance with requirements outlined in the Ministry Publication NPC-103 – Procedures (MOE, 1978).

Traffic on Nauvoo Road has a notable effect on measurements at location M1. To characterize this effect, analysis was based on traffic counting and classification conducted on Nauvoo Road during the during the 3rd quarter of 2019. This analysis yielded one week of traffic data, and from this information were calculated typical hourly sound levels from traffic noise for each day of the week.

Traffic noise contributions for M1 were determined using Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms (MOE, 1989). Note that the speed limit for Nauvoo Road is 80 km/h however observations indicate that a vehicle speed of 100 km/h is more representative. For this situation, the modelled road traffic sound levels are expected to be lower than the actual road traffic sound levels due to limitations of the ORNAMENT model. The under-prediction of traffic noise will result in an overestimate of site noise. Summarized hourly traffic data and ORNAMENT calculations are shown in the appendices of each quarterly noise monitoring report.

Noise due solely to landfilling operations was determined by subtraction of this hourly traffic sound level due to traffic on Nauvoo Road from the hourly measured $L_{EQ,\ 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the hourly traffic sound level exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. Thus, landfilling was considered compliant with the limits.

To evaluate compliance for each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ and the average of the $L_{EQ,\ 1\text{-}hr}$ intervals with acceptable weather conditions were assessed against the noise limit provided in the NMP. The average L_{EQ} was selected to represent the average impacts from the site in the direction of each monitor during the acceptable weather periods. The interval with maximum L_{EQ} was selected to represent the worst-case impacts from the site in the direction of each monitor. The measured L_{EQ} includes noise from both landfilling activities and background noise. In cases where the measured L_{EQ} is below the limit, the noise from landfilling activities is therefore also below the limit. In cases where the measured L_{EQ} is above the limit, additional on-site evaluation is needed to identify the dominant noise sources at the location.

3.2 Sound Level Limits

Sound level limits for landfilling are specified for daytime operation since landfilling occurs only during daytime hours. The applicable limits for landfilling are provided in the guideline entitled "Noise Guidelines for Landfill Sites" (MOE, 1998). The guidelines limit the sound levels at sensitive receptors to 55 dBA. The limits at the monitoring locations presented in the NMP are derived from the 55-dBA limit at the receptors using a distance correction. The distance correction accounts for the location of the sound level meters, which are located between TCEC and noise-sensitive receptors.

Sound level limits for the monitoring locations around TCEC were established in the NMP. **Table 1** of the NMP specifies daytime sound level limits individually for each monitoring station at each stage of site operation. The landfilling stage throughout 2020 is described in the NMP as "Phase 4 @ 250 m". Sound level limits are shown in **Table 1** of the NMP, which is found in **Appendix A**.

3.3 Acceptable Weather Conditions

The NMP outlines acceptable weather conditions when the noise levels should be considered as valid. Temperature, relative humidity, wind speed and precipitation are collected by an on-site meteorological station. Data from monitoring intervals where these parameters exceeded acceptable limits were excluded from the analysis. Acceptable limits are shown in **Table 1** below.

Table 1: Acceptable Weather Conditions

Parameter	Lower Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

3.4 Reporting Requirements

As outlined in the NMP, there are three types of reporting that are required:

1. Complaint Reporting;
2. Quarterly Monitoring Reports; and
3. Annual Monitoring Report.

Complaint reporting is not addressed further in this report because there were no recorded noise complaints for TCEC during 2020. Quarterly reports were completed and attached to this annual monitoring report as **Appendix B**.

The quarterly and annual monitoring reports include the following:

- Summary of the results and analysis;
- Exceedances and responses;
- Complaints and responses; and
- Any recommended improvements in the noise monitoring / operations to address issues.

Details regarding these requirements are outlined in Section 4.

4 CONCLUSIONS AND RECOMMENDATIONS

Average sound levels during the 2020 reporting period were less than the sound level limits prescribed in the NMP for all monitoring locations except for M1. On-site auditory observations of elevated sound levels by RWDI personnel throughout November and December 2020 did not indicate landfilling was a dominant source, thus suggesting that excess sound levels at M1 are not due to landfilling. These observations and previous on-site investigations are consistent with the observation that hours with excess sound level also occur outside of hours of TCEC operation. Further investigation of exceedances at M1 occurred during February 2021. These observations showed that exceedances at M1 are driven by construction and maintenance activities that occurred closer to M1 than the landfilling. Therefore, landfilling was not the cause of elevated sound levels at M1.

Over the course of 2020, there were isolated periods where the maximum measured $L_{EQ,\ 1\text{-}hr}$ values exceeded the prescribed sound level limits. These occurred at all locations, both when TCEC was open and when it was closed. A summary is presented in **Table 2** below.

Table 2: Summary of Compliance Statistics 2020 Monitoring

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with Site Open [1,2]	Number of Acceptable Intervals with Site Closed [1,2]	Percentage of Time Noise Levels > 3 dB Above Limit when Site is Open	Percentage of Time Noise Levels > 3 dB Above Limit when Site is Closed
	Site Operating [4]		Site Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	172	27	215	174	529	1145	5.1%	15.2%
M2	4	7	13	29	528	1145	1.3%	2.5%
M3	12	8	27	31	527	1145	1.5%	2.7%
M4	2	2	5	6	529	1145	0.4%	0.5%

Notes:
1. Each interval is defined as 1 hour.
2. Intervals with acceptable weather conditions as described in **Table 1**.
3. Based on $L_{EQ,\ 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable (M1).
4. Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the guideline entitled "Noise Guidelines for Landfill Sites" (MOE, 1998). Therefore, all intervals with an excess of 3 dB or less above the limit were an imperceptible difference from the limit.

For monitor M1, exceedances greater than 3 dB above the limit occurred while the site was operating during Q3 and Q4. On-site observations were made which show that excess sound levels at M1 are attributable to nearby landfill construction and equipment maintenance activity and were not caused by landfilling.

For monitor M2, exceedances greater than 3 dB above the limit occurred while the site was operating during Q2. These instances occurred on different days and at different times. Statistical data review revealed that all 7 exceedances were high-sound-level short-duration events. Further, these data points with elevated sound level at M2 did not correlate with increased sound levels at other monitors. In addition, there was construction activity in the area near monitor M2, which included delivery and stockpiling of stone and geotextile as part of liner construction activities. Therefore, the origin of the elevated sound levels was either an off-site source of sound or related to liner construction, and not landfilling activity.

For monitor M3, exceedances greater than 3 dB above the limit occurred while the site was operating during Q2 and Q3. During Q2, measured hourly sound levels exceeded the hourly limit by more than 3 dB during four hourly intervals on the same day. On-site observations by RWDI personnel indicated that these intervals coincided with agricultural activities in the area near to monitor M3. Therefore, these exceedances were due to farming and not landfilling activity. During Q3, measured hourly sound levels exceeded the hourly limit by more than 3 dB during four hourly intervals. One occurrence of an elevated sound level had a simultaneous elevated, but quieter sound level at M2. The increase in M2 and M3 sound levels was also not observed at M1 and M4 during this time. The intervening soil stockpile and existing landfill mound each forms a barrier for sound from landfilling towards M3. The absence of a corresponding increase in sound level at M1 rules out a source associated with landfilling. The three remaining exceedances were attributed to UTV pass-bys. Therefore, landfilling activity did not cause any of the exceedances.

For monitor M4, exceedances greater than 3 dB above the limit occurred while the site was operating during Q1 when measured hourly sound levels exceeded the hourly limit by more than 3 dB during two hourly intervals. Landfill operations logs indicated that these intervals coincided with ongoing construction activities at TCEC, such that the excess sound levels are attributed to the construction activity and not landfilling activity.

Sound levels from regular operation of landfilling continue to be within the accepted criterion. The occurrences above the criterion were isolated and repeated on-site investigation did not identify a cause. Therefore, no alternative operating recommendations are necessary.

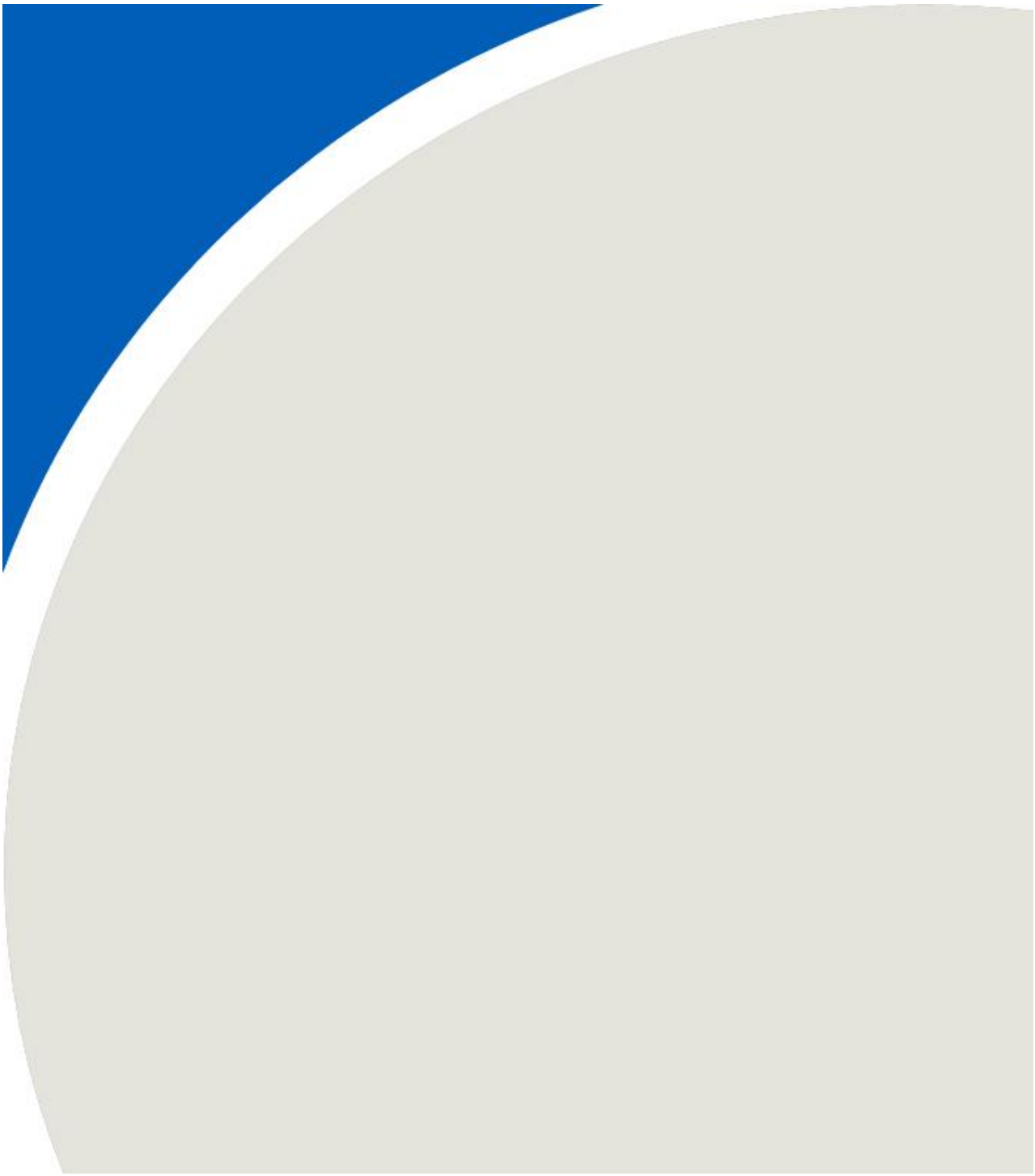
5 REFERENCES

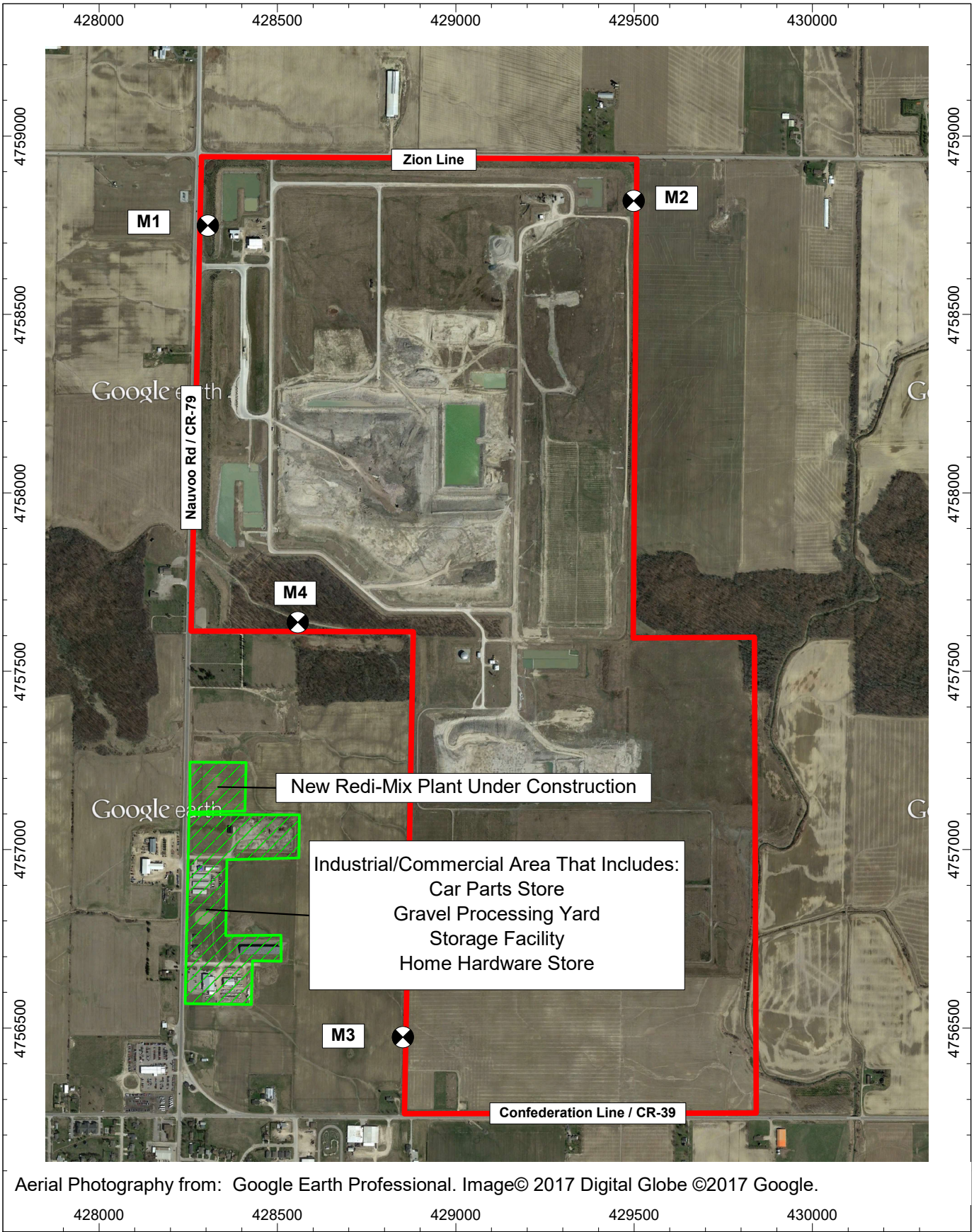
1. Ontario Ministry of the Environment (MOE), 1978, Model Municipal Noise Control Bylaw, which includes Publication NPC-103 – Procedures.

2. Ontario Ministry of the Environment (MOE), 1989, ORNAMENT Ontario Road Noise Analysis Method for Environment and Transportation, Technical Publication.

3. Ontario Ministry of the Environment (MOE), 1998, Noise Guidelines for Landfill Sites.

FIGURE





Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Landfill, Watford, Ontario

True North

Project #2001313

Drawn by: MFA	Figure: 1
Scale:	1:15000
Date:	Oct. 31, 2020

APPENDIX A

ENVIRONMENTAL NOISE MONITORING PROGRAM

FOR THE

WARWICK LANDFILL

Prepared for:

WASTE MANAGEMENT OF CANADA CORPORATION

DRAFT

Prepared By:



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1 INTRODUCTION

The following document defines the requirements for a noise monitoring program at the Warwick Landfill site. The purpose of the monitoring program is to monitor and quantify noise levels emanating from the Landfill site as well as noise emissions from vehicular traffic to and from the landfill site.

It is expected that the monitoring program will commence after the perimeter berms are constructed. The duration of the monitoring and reporting activities is expected to extend over the life-span of the project, subject to review by the Waste Management and the Town of Watford.

1.1 Monitoring Basis

The underlying basis for the noise monitoring program is contained in the MOE document "*Noise Guidelines for Landfills, October 1998*"

1.2 Definitions

1.2.1 Sound Pressure Level (SPL)

Sound pressure level is a ratio expressed in a logarithmic scale. The sound pressure level as expressed in decibels (dB) of the sound is 20 times the logarithm to the base 10 of the ratio of the RMS sound pressure and a reference pressure (20 μPa).

1.2.2 A-Weighted Sound Pressure Level

An A-weighted decibel is the sound pressure level measured by applying a frequency weighting, designated the A-scale, to the signal. This frequency weighting (i.e., A-Weighting), specified in IEC 61672-1, is intended to approximate the relative sensitivity of the normal human ear to different frequencies. The level is denoted as dBA.

1.2.3 Energy Equivalent Noise Level (LEQ)

LEQ is the time average of the A-weighted sound pressure level. The average energy equivalent noise level for a specified period is the level of constant or steady state noise that has an amount of acoustical energy equal to the actual noise being measured. This quantity can be readily measured with an integrating sound level meter.

1.2.4 Impulsive Sound Level (dBAI)

"Impulsive sound" is sound that includes one or more clearly distinguishable impulses in an observation period, produced by sources such as bird scaring devices. The "impulsive sound level" is the sound level of an impulsive sound as measure with an Impulse Sound Level Meter set to impulse response. It is measured in A-weighted decibels, denoted dBAI.

1.2.5 Percentile Sound Level L(n)

This quantity is the noise level which has been exceeded `n' percent of the time for a given time period (usually one hour). It is measured in dBA. The L90, for instance, is the sound level exceeded 90 % of the time and this is commonly described as the background noise level in a given community.

2 SELECTION OF INSTRUMENTS

The measurement instrumentation selected shall meet the requirements for a type 2 sound level meter as outlined by publication IEC 61672-1 and as defined by the MOE. Specifically, the unit shall meet the following performance specifications under special environmental and operating conditions.

Standards:	To meet Type 2 specification for either ANSI S1.4 or IEC 61672-1
Microphone Protection:	Windscreen

3 ACOUSTIC PERFORMANCE VERIFICATION

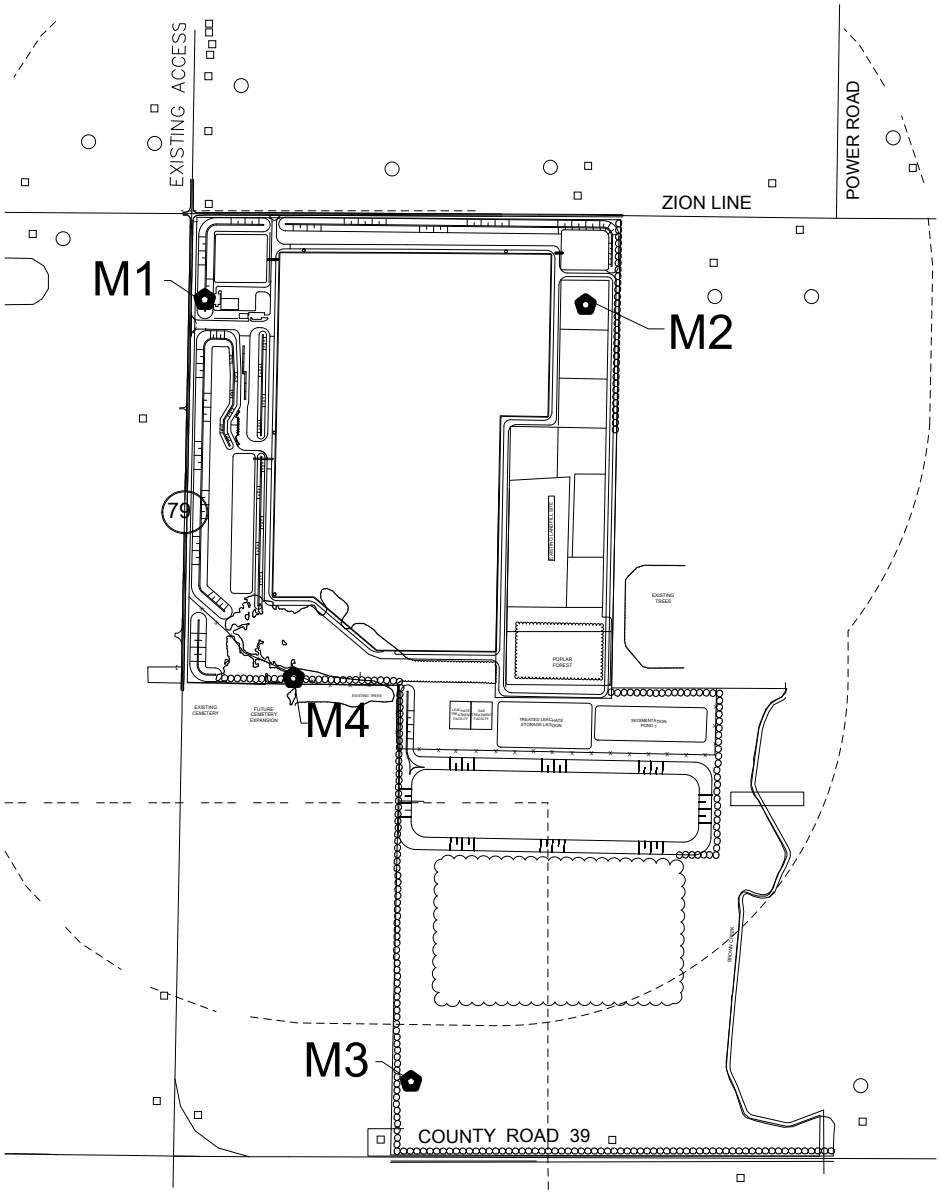
An acoustic performance verification of the Warwick Landfill shall be undertaken before each landfill stage by a qualified acoustical engineer. The purpose of the performance verification is to verify landfill, ancillary equipment and bird control device noise emission levels, duty patterns, hours of operation and to undertake spot check noise measurements at perimeter receptors R1 to R9.

The acoustic performance verification shall be performed in accordance with the MOE procedures outlined in publications NPC-103 and NPC-104 or equivalent updated standards stipulated by MOE. The acoustic performance verification report shall be submitted to Waste Management of Canada Corporation and distributed accordingly.

4 SELECTION OF SITES

Four monitoring locations are considered suitable for monitoring of noise levels from the Warwick landfill site. The location selection process entails the identification of an array site from which it is possible to obtain a reasonable representation of the noise emission from the site impact on the neighbouring receptors. The monitors should be set at the top of the perimeter berm, with suitable protection from vandalism and tampering. The locations shown in Figure 1 have been selected based on these criteria. Key receptor locations along the east, west, south and north perimeter of the Landfill have been selected as suitable monitoring locations.

The monitor locations shall be mounted at least 7m away from any nearby large reflecting surfaces such as a dwelling, garage, barn, etc. so as to minimize effects from stray reflections. The monitors shall also be located 3 m above ground level. In addition, the monitors shall not be located near (i.e. within 15m) any roads, transformers or other nuisance noise sources (unless specifically required) which may significantly affect the results of the noise monitoring.



M1: Entrance to Landfill
M2: Zion Line
M3: County Road 39
M4: Watford Cemetery Extension

FIGURE 1: SUGGESTED LOCATIONS FOR NOISE MONITORING

5 WEATHER MONITORING

Noise monitoring should be performed under atmospheric conditions which are within the limits of the instrumentation specifications. In general, calm to light wind conditions less than or equal to 18 km/hour, no precipitation and temperatures above $-5^{o}C$ are ideal in order to obtain reliable sound level data.

Landfill site weather data which includes wind speed, wind direction, temperature, relative humidity, and precipitation shall be collected on an hourly basis.

6 MONITORING DURATION

Noise shall be monitored at the four monitoring locations for a minimum continuous period of one month, four times per year, with additional monitoring duration if required to obtain representative results given weather conditions.

The MOE inspector shall be trained to undertake quick response spot check noise measurements, in response to any potential noise complaints from the community. The MOE inspector shall use the triggers and response decision flow chart shown in Figure 2 to manage acoustic issues and respond to noise complaints.

6.1 Data Reduction And Analysis

A qualified acoustical consultant or a trained MOE inspector shall analyze the data on a weekly or preferably daily basis in order to determine the source of complaints and whether sound levels due to the operation of the landfill exceed the MOE guidelines and noise limits outlined in the environmental noise study.

Sound levels obtained at the monitoring stations shall be correlated with the landfill site's operations log. A site operation log is therefore required to obtain information regarding the hours of operation and to quantify noise levels under various operating conditions. With the use of the log information, noise levels measured during "operating" and "non- operating" conditions can be established. This will allow information to be correlated between the monitoring stations since the background sound level as well as the noise levels observed during operations can be assessed and compared.

Noise from the on- site operation of the proposed facility is not continuous. Hence, some change in noise impact is expected to occur over time. These levels will also be affected by atmospheric conditions such as wind and other effects. Under these conditions, levels will increase for receptors located downwind from the noise source and similarly decrease for receptors located upwind.

The MOE inspector and/or qualified acoustical consultant shall use the triggers and response decision flow chart shown in Figure 2 and 3 to manage acoustic issues and respond to noise complaints.

7 DATA REPORTING

The data will be analyzed to identify periods of time when noise levels exceed MOE sound limits or other predetermined threshold. The site operational log should be reviewed whenever there are periods of high noise levels.

7.1 Complaint Reports:

In the event of a complaint received by either the MOE inspector or the operator, the operator shall report the complaint and the operator response within 24 hours to the designated person at the Township of Warwick and the MOE inspector. The time, location, response time, and other details of all complaints shall be logged on the operator log sheet.

7.2 Quarterly Monitor Reports:

Quarterly monitoring reports shall be provided to the Township of Warwick, Public Liason Committee and MOE Sarnia District Office by the operator. These quarterly reports shall include summarized monitoring results and analysis completed within the quarter together with exceedances and responses, complaints and responses, and any recommended improvements in noise monitoring/operations to address issues.

7.3 Annual Monitoring Report:

The annual noise monitoring report shall be provided to the Township of Warwick, Public Liason Committee and MOE Sarnia District Office by the operator. This report shall include compilation of noise monitoring results for the year together with a summary of the results including exceedances and responses, complaints and responses, and any recommended improvements in monitoring/operations to address issues.

Figure 2: Noise Complaint Reporting

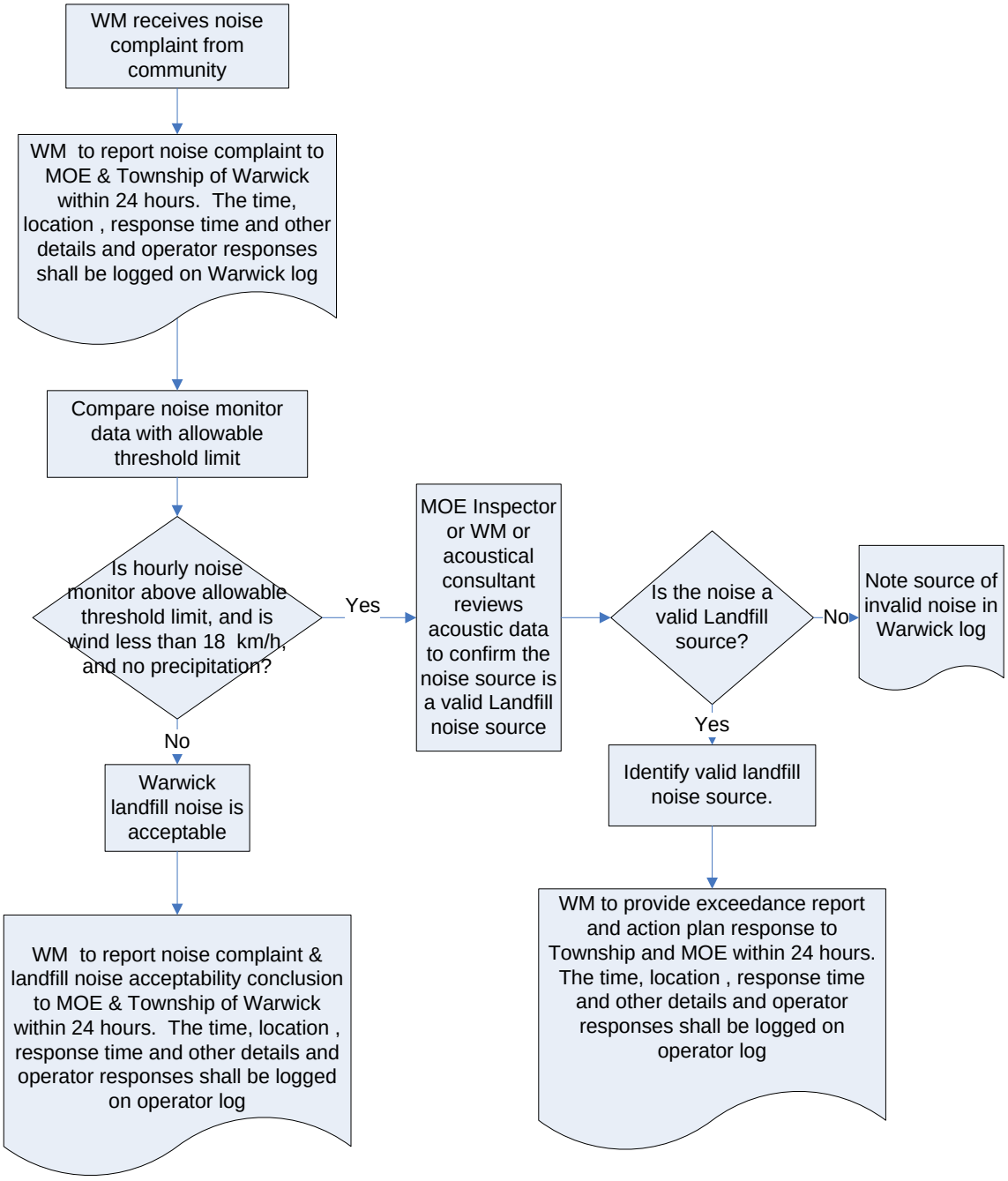


Figure 3: Quarterly Noise Monitoring

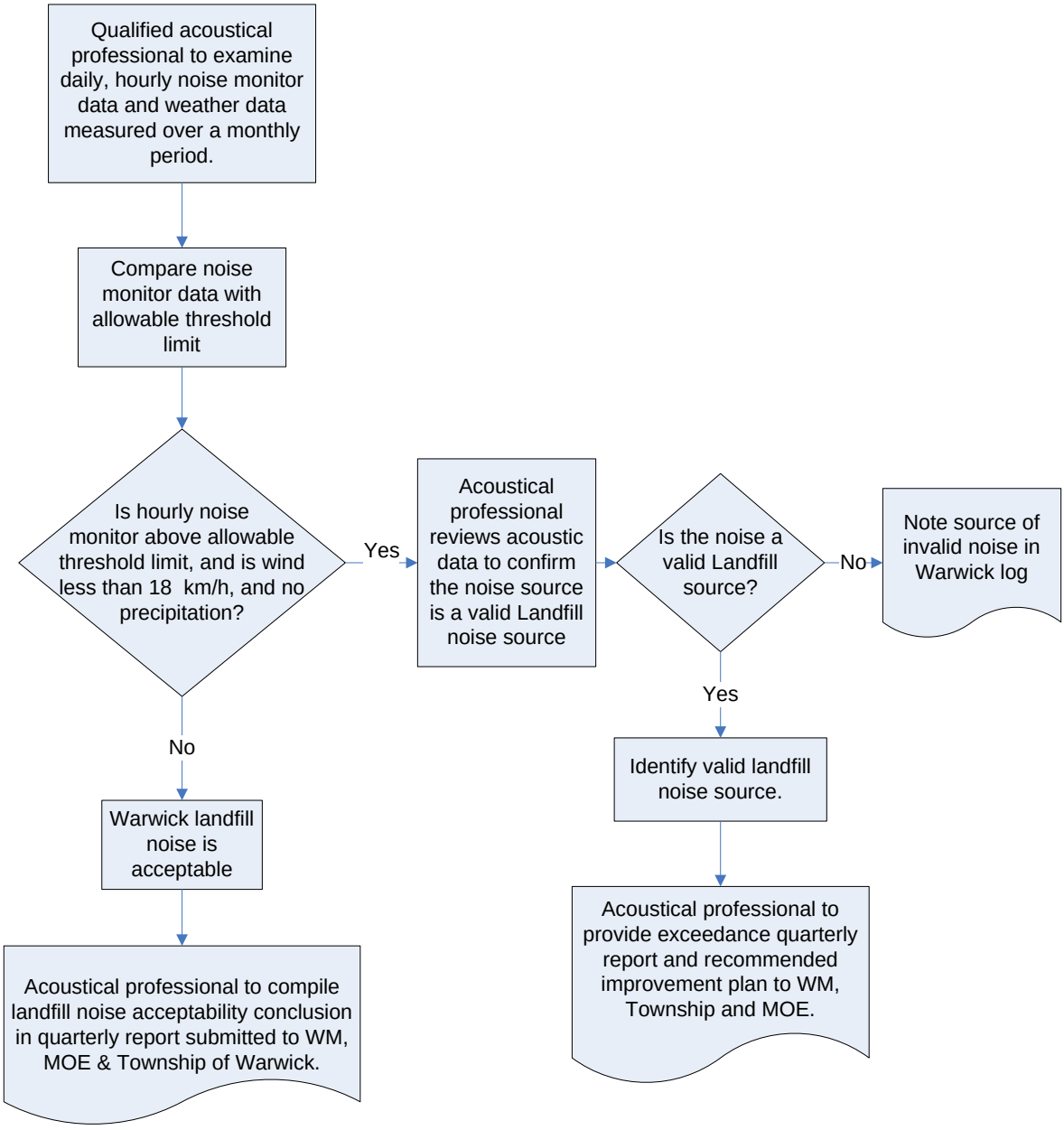
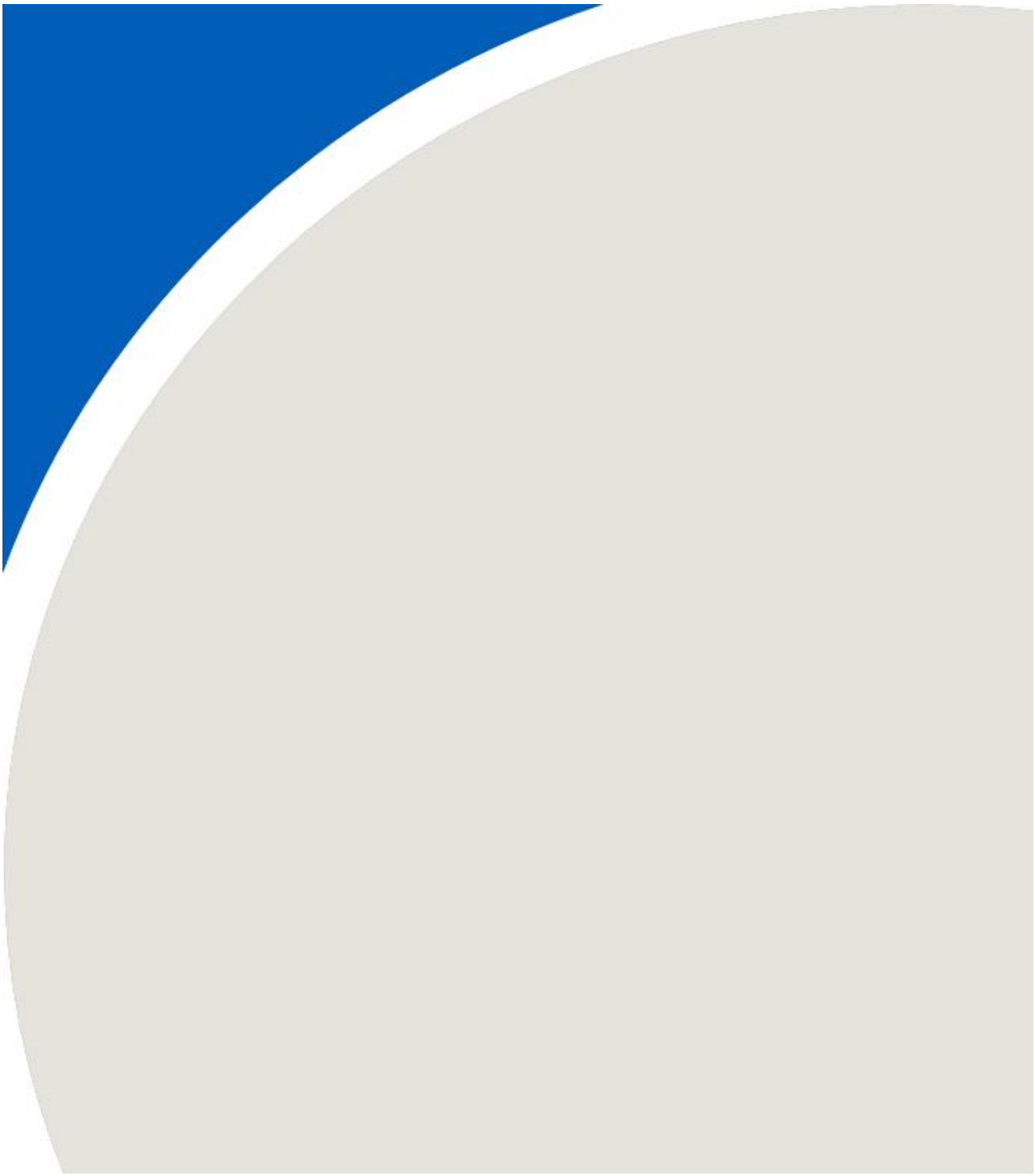


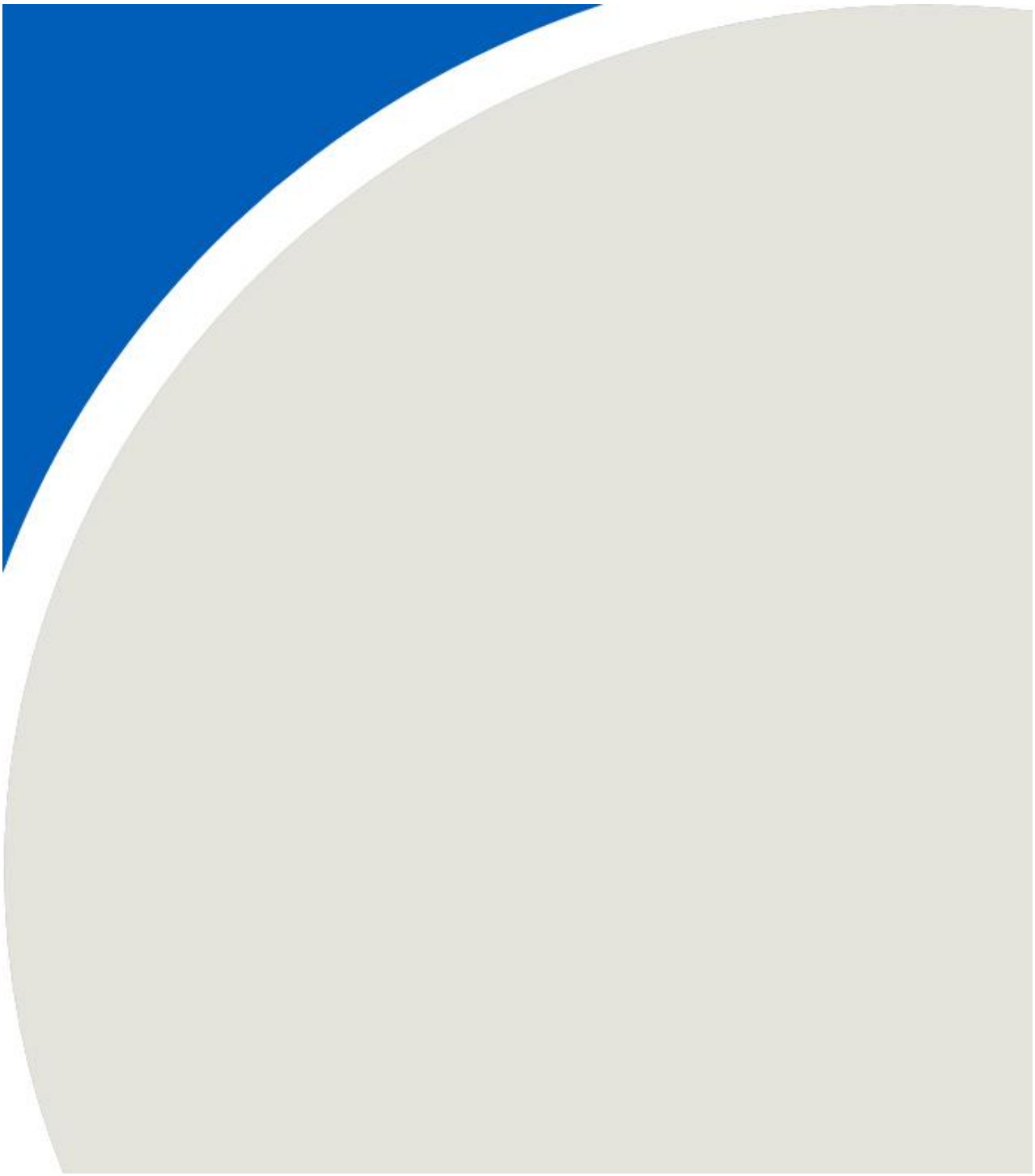
Table 1: Daytime Landfill Noise Thresholds @ Monitor Locations

Landfill Phase	Monitor #1 Daytime Threshold Noise Limit	Monitor #2 Daytime Threshold Noise Limit	Monitor #3 Daytime Threshold Noise Limit	Monitor #4 Daytime Threshold Noise Limit
Phase 1 east area @ 240m	62.7	66.1	55	55.3
Phase 1 east area @ 250m	62.7	66.1	55	55.3
Phase 1 west area	61.6	65.4	55	55.3
Phase 2 west area @ 233m	68.4	57.1	55	55.3
Phase 2 east area @ 250m	63.5	66.2	55	55.3
Phase 3 southwest area @ 234m	59.2	60.7	55	55.3
Phase 3 southwest area @ 235m	59.9	60.4	55	55.3
Phase 3 southwest area @ 240m	63.3	58.8	55	55.3
Phase 3 west area @ 240m	61.5	65.4	55	55.3
Phase 3 east area @ 260m	57.8	57.9	55	55.3
Phase 3 east area @ 270m	58.1	58	55	55.3
Phase 4 @ 250m	62.6	65.2	55	55.3
Phase 5 north area @ 235m	65.3	55.6	55	55.3
Phase 5 center area @ 240m	59.1	61.2	55	55.3
Phase 5 west area @ 250m	60.2	64.9	55	55.3
Phase 6 northwest area @ 240m	61.2	63.2	55	55.3
Phase 6 northwest area @ 250m	64.6	55.2	55	55.3
Phase 6 east area @ 250m	57.5	59.3	55	55.3
Phase 6 west area @ 267.7m	58.5	57	55	55.3
Phase 7 north centre @ 250m	58.7	55.8	55	55.3
Phase 7 west area @ 267.7m	60.2	56.5	55	55.3
Phase 7 south center area @ 275m	58.7	57.5	55	55.3
Phase 8 northeast area @ 235m	59.3	67.7	55	55.3
Phase 8 north center area @ 250m	61.2	55.6	55	55.3
Phase 8 northwest area @ 267.7m	61.6	55.8	55	55.3
Phase 8 center area @ 275m	59.3	57.8	55	55.3
Phase 9 northeast area @ 240m	59.5	69.2	55	55.3
Phase 9 northeast area @ 250m	58.8	59.9	55	55.3
Phase 9 north center area @ 260m	59.5	55.9	55	55.3
Phase 9 north east area @ 260m	62	58.6	55	55.3
Phase 9 north east area @ 267.7m	60.2	57.4	55	55.3
Phase 9 north west area @ 267.7m	60.1	56.7	55	55.3
Phase 9 center area @ 278m	59.3	57.5	55	55.3

APPENDIX B



Q1



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May 11, 2020

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Re: First Quarter 2020 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2001313-4000

Email: amclachl@wm.com

Dear Ms. McLachlan,

Waste Management of Canada Corporation has retained RWDI to conduct the First Quarter acoustic survey for 2020 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 13, 2011. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

BEST MANAGED COMPANIES Platinum member

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Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. The current landfilling stage as described in the NMP is "Phase 4 @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 4 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	63
M2	65
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2020 First Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ, 1\text{-}hr}$ value and the average of the $L_{EQ, 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ, 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ, 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ, 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ, 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	69	67	ORNAMENT Modelling	65
M2	58	N/A	Conservatively Assumed to be negligible	58
M3	57	N/A	Conservatively Assumed to be negligible	57
M4	58	N/A	Conservatively Assumed to be negligible	58

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	318	65[3]	62[3]	63
M2	744	Yes	318	58	51	65
M3	744	Yes	318	57	49	55
M4	744	Yes	318	58	49	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	28	0	44	22	98	220	0.0%	10.0%
M2	0	0	0	0	98	220	0.0%	0.0%
M3	2	0	4	5	98	220	0.0%	2.3%
M4	1	2	0	0	98	220	2.0%	0.0%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit during 28 instances while the TCEC was in operation, of which there were zero instances when sound levels were greater than 3 dB above the limit. During non-operational hours, 66 hourly intervals in excess of the limit were recorded, 22 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels did not exceed the hourly limit during operational hours or during non-operational hours.

At monitor M3, measured hourly sound levels exceeded the hourly limit in two instances while the TCEC was in operation, zero of which were greater than 3 dB above the limit. During non-operational hours, nine hourly intervals in excess of the limit were recorded, five of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels exceeded the hourly limit in three instances while the TCEC was in operation, two of which were greater than 3 dB above the limit. During non-operational hours, measured sound levels did not exceed the hourly limit.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational were below their prescribed sound level limits as specified in the NMP at all locations.

At monitor M4, measured hourly sound levels exceeded the hourly limit by more than 3 dB during two hourly intervals. Landfill operations logs indicated that these intervals coincided with ongoing construction activities at the site, such that the excess sound levels are attributed to the construction activity.

The measured $L_{EQ,\ 1\text{-}hr}$ values during the First Quarter did not perceptibly exceed the prescribed sound level limits by 3 dB at M1, M2, or M3 during any hourly interval while the TCEC was operational.

Therefore, no hourly intervals at M1, M2, or M3 were perceptibly above the limits during TCEC operating hours in the First Quarter. Additionally, at M4, the sound levels that perceptibly exceed the prescribed sound level limits in the First Quarter are not attributed to landfilling.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI





Hassan Fakih, B.Sc.
Project Manager | Scientist

Brad Bergeron, A.Sc.T., d.E.T.
Senior Consultant | Principal

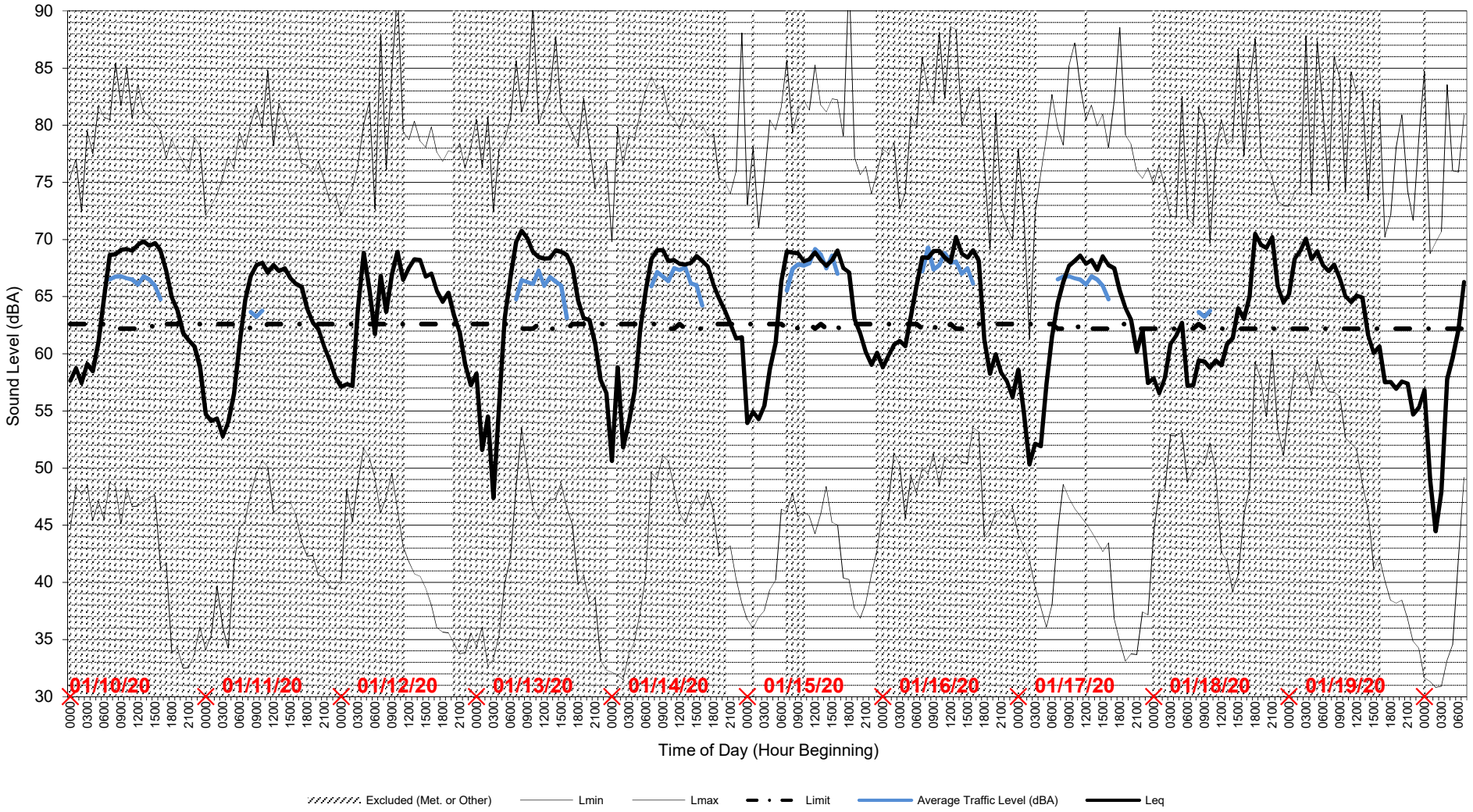
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Attach.

ATTACHMENT A



Long-Term Measurement Results

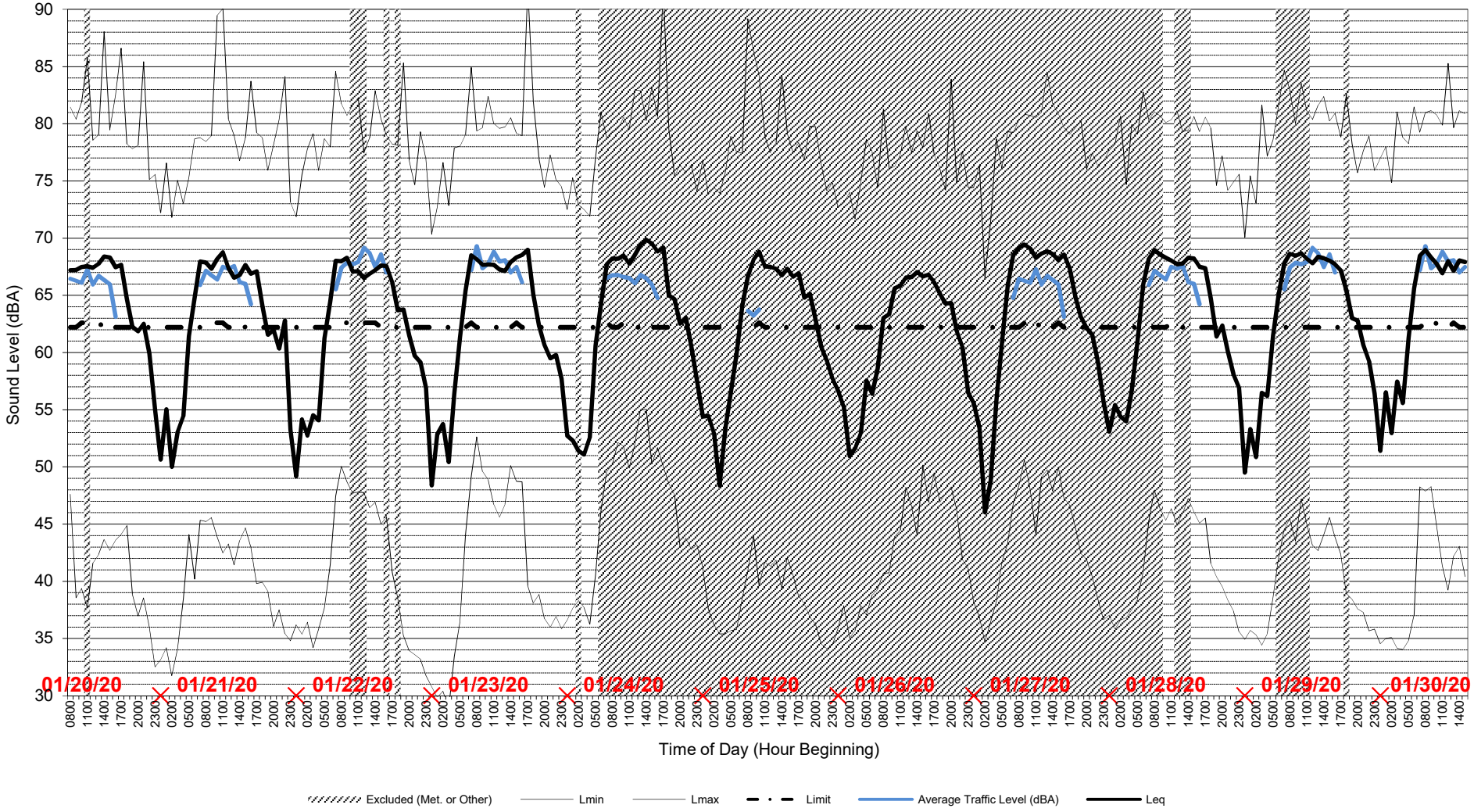
M1



Measured Ambient Sound Levels From Jan 10,2020 to Jan 20,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1a** Date: May 02, 2020	RWDI

Long-Term Measurement Results

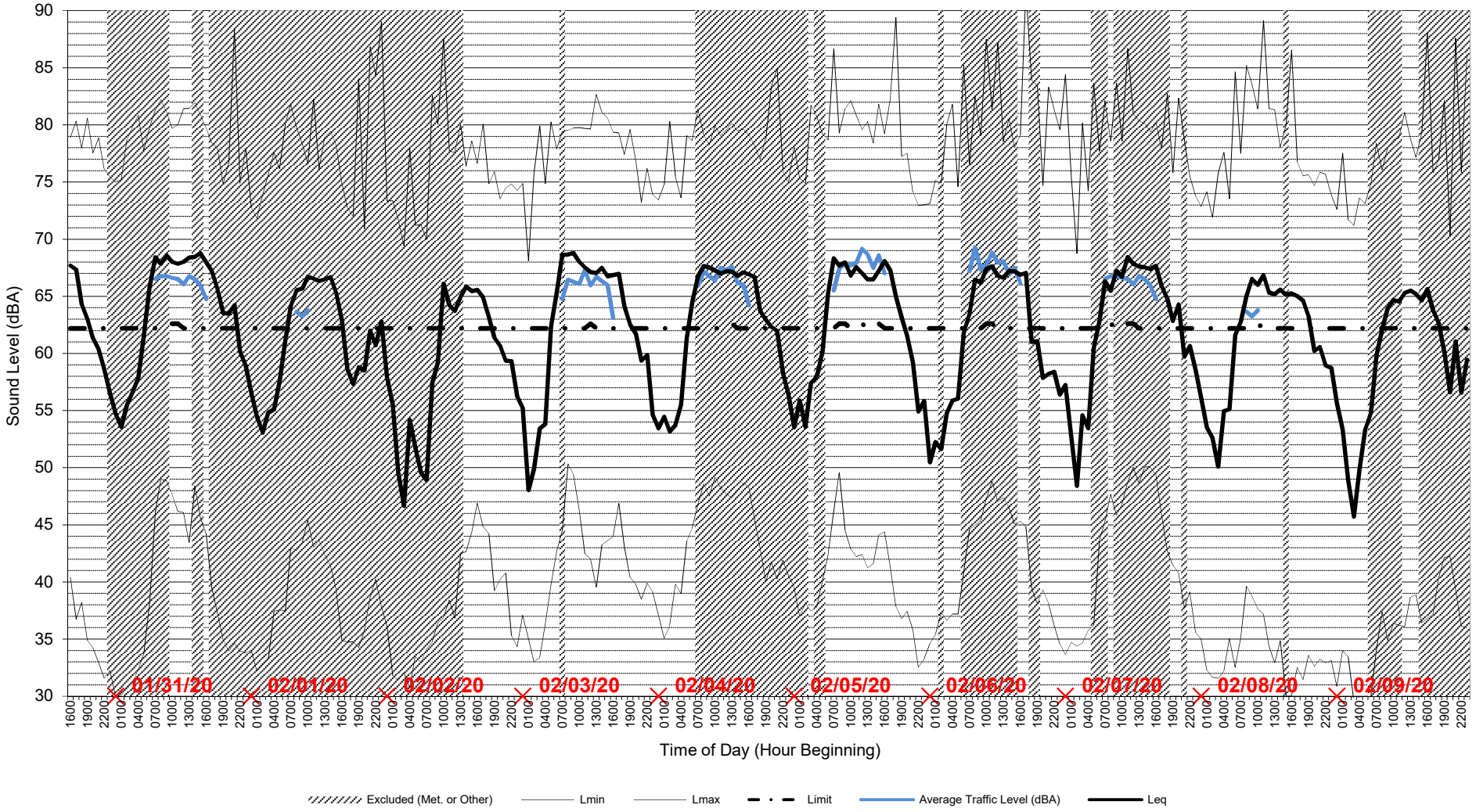
M1



Measured Ambient Sound Levels From Jan 20,2020 to Jan 30,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1b** Date: May 02, 2020	RWDI

Long-Term Measurement Results

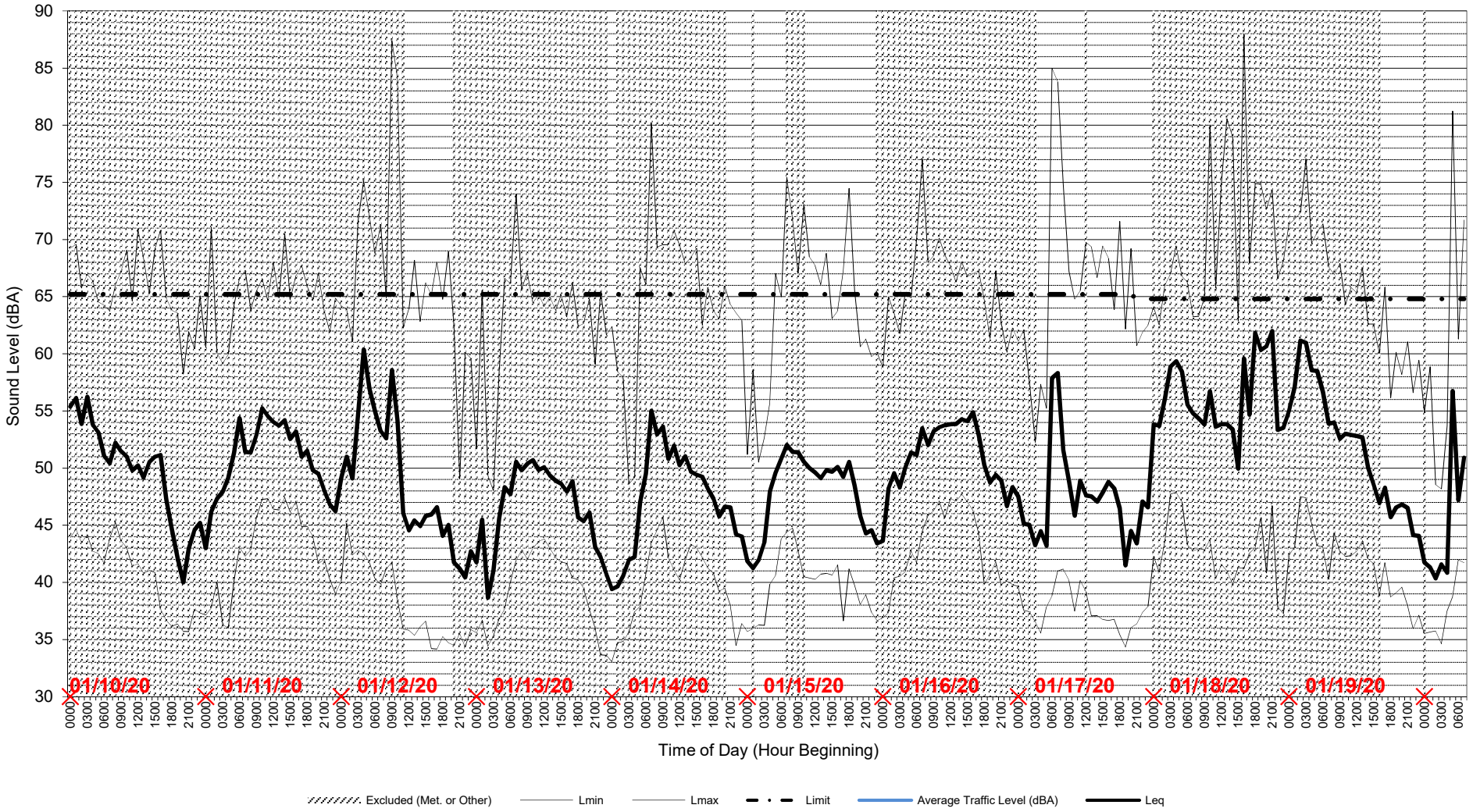
M1



Measured Ambient Sound Levels From Jan 30,2020 to Feb 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1c** Date: May 02, 2020	RWDI

Long-Term Measurement Results

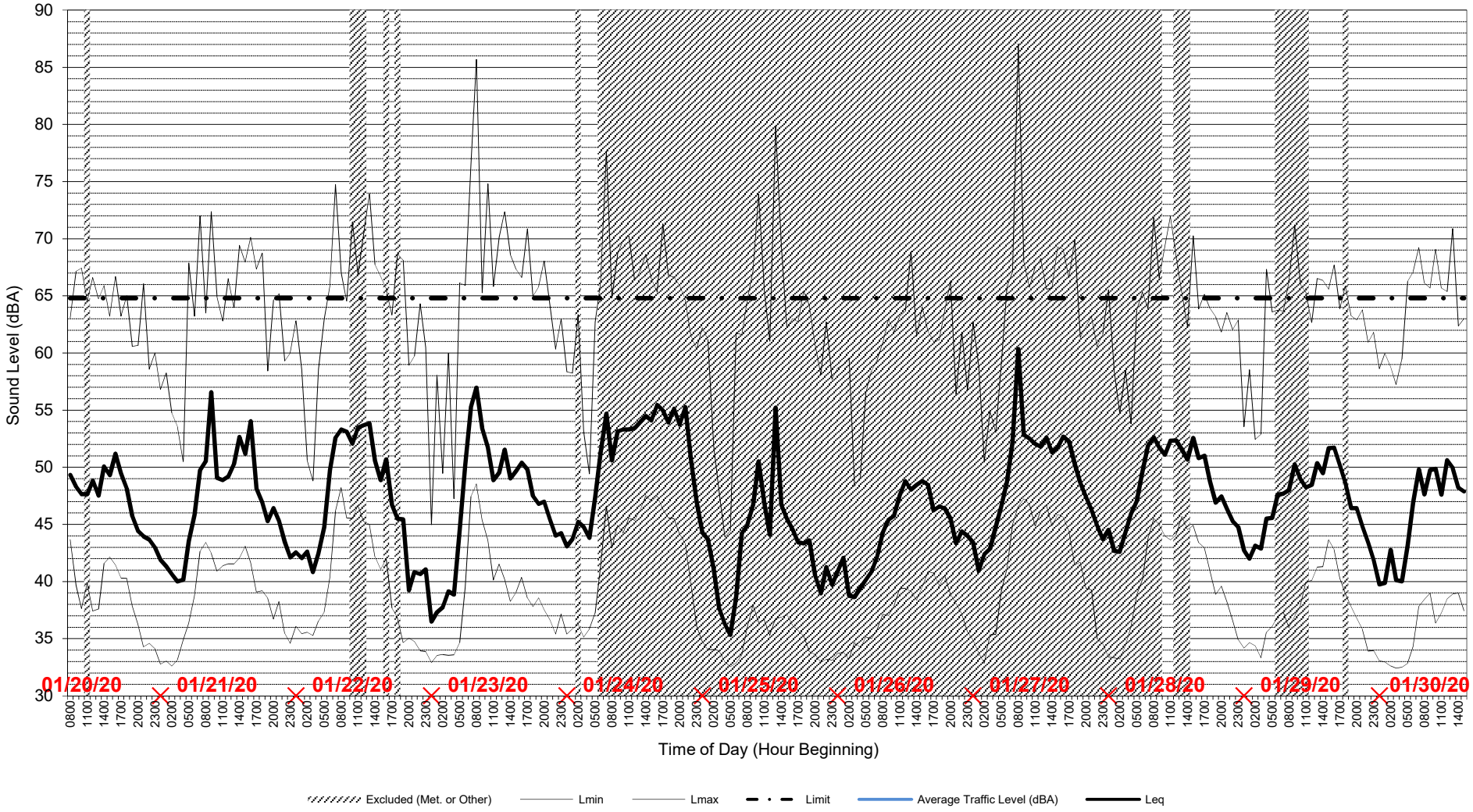
M2



Measured Ambient Sound Levels From Jan 10,2020 to Jan 20,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2a** Date: May 02, 2020	RWDI

Long-Term Measurement Results

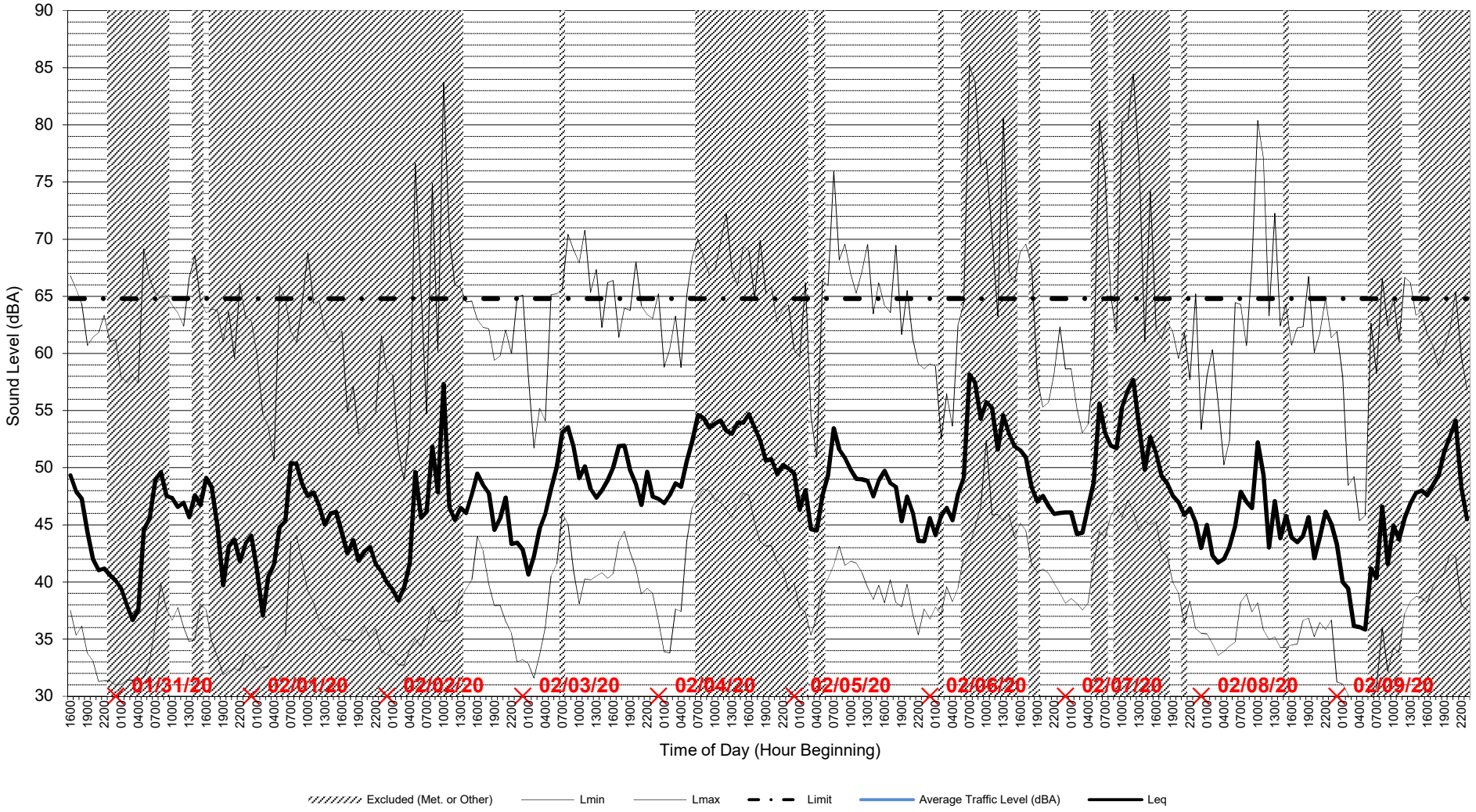
M2



Measured Ambient Sound Levels From Jan 20,2020 to Jan 30,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M2b** Date: May 02, 2020	RWDI

Long-Term Measurement Results

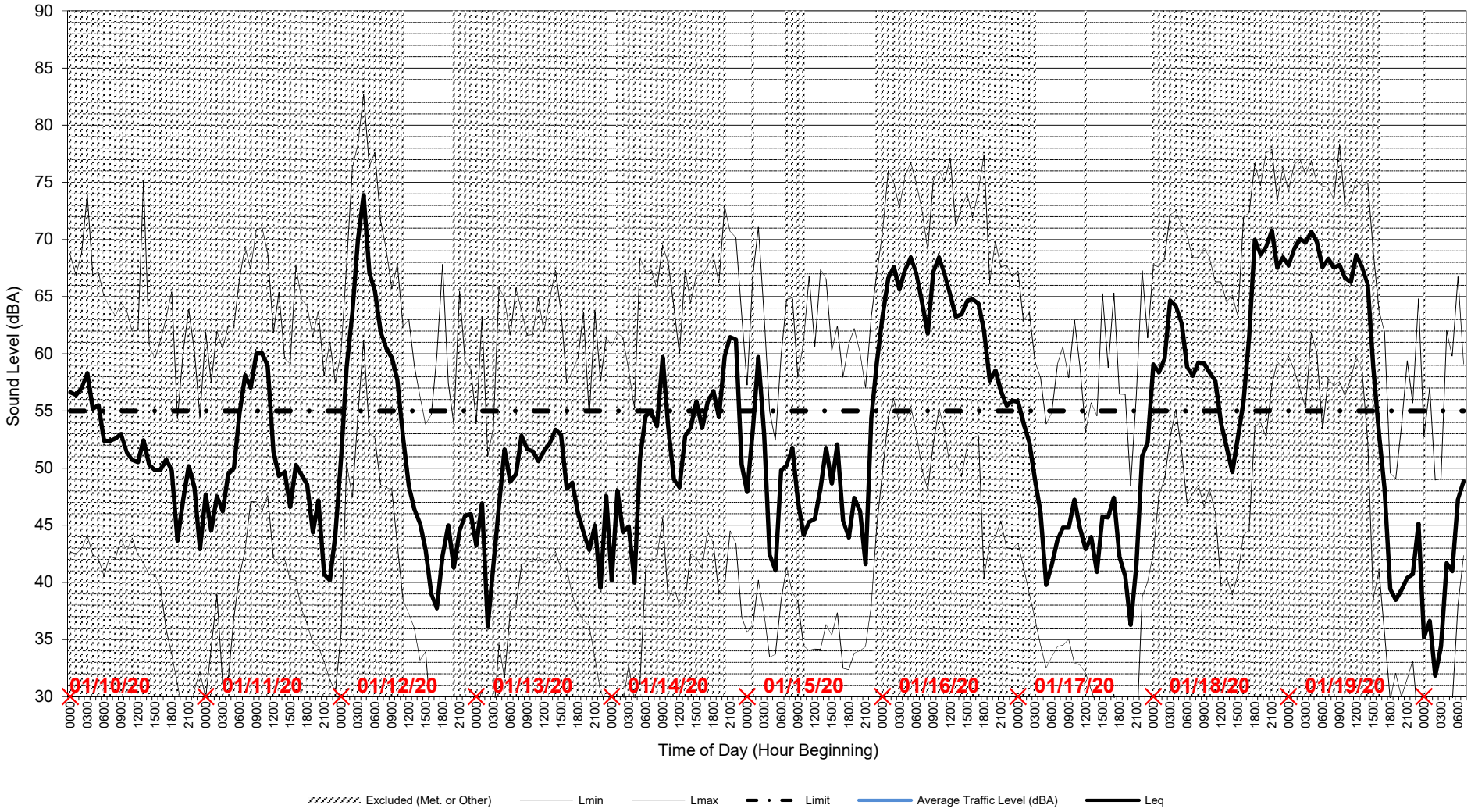
M2



Measured Ambient Sound Levels From Jan 30,2020 to Feb 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2c** Date: May 02, 2020	RWDI

Long-Term Measurement Results

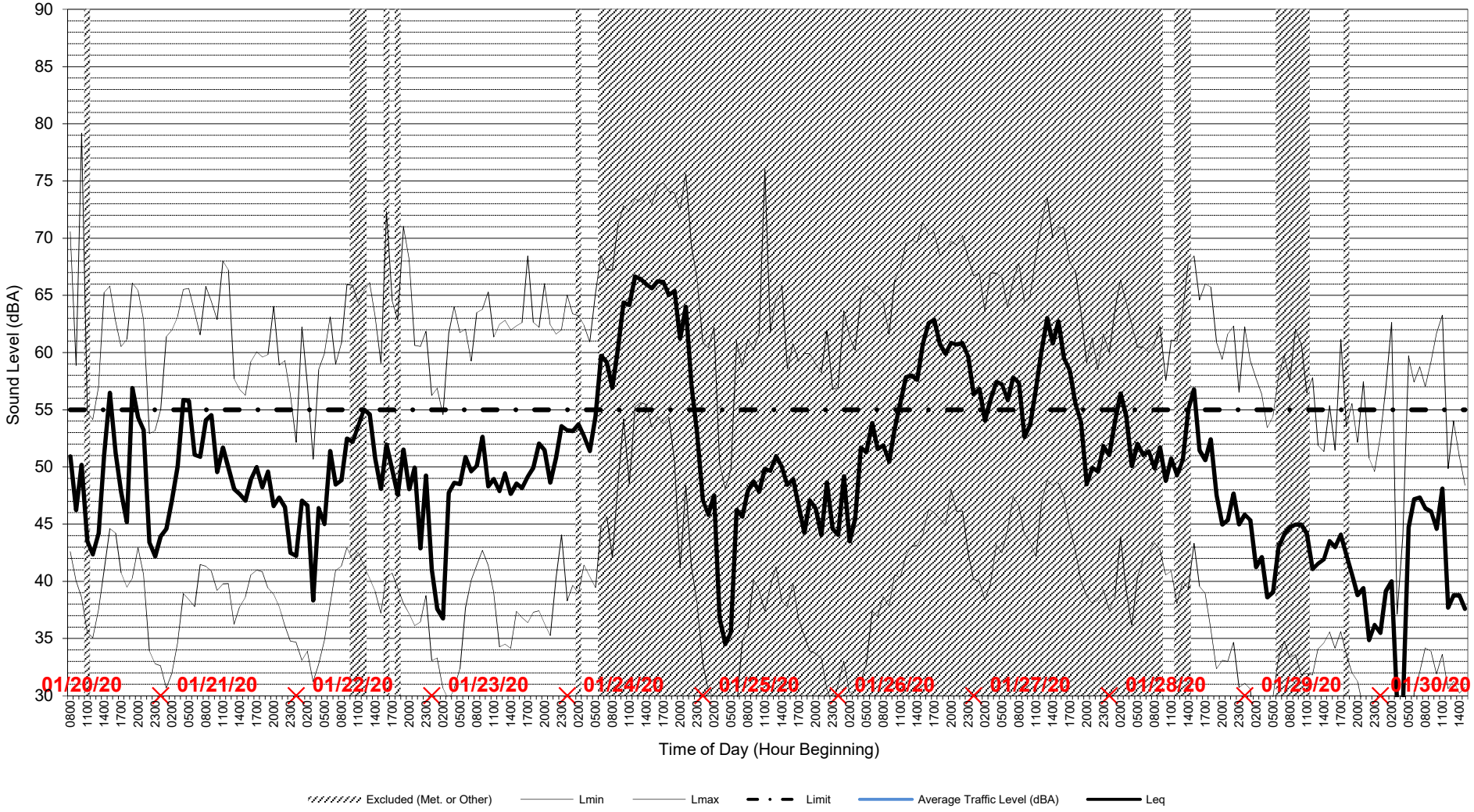
M3



Measured Ambient Sound Levels From Jan 10,2020 to Jan 20,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3a** Date: May 02, 2020	RWDI

Long-Term Measurement Results

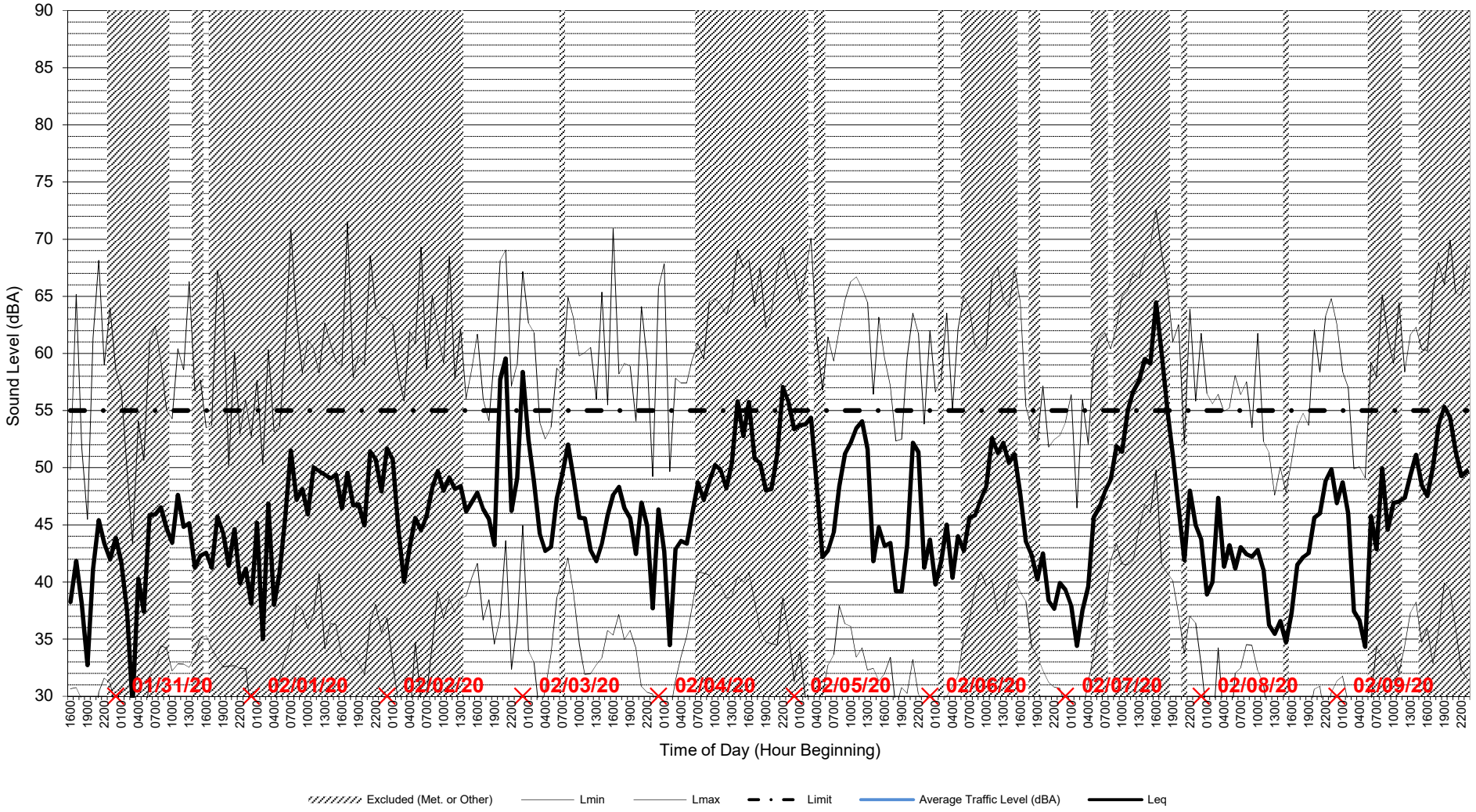
M3



Measured Ambient Sound Levels From Jan 20,2020 to Jan 30,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3b** Date: May 02, 2020	RWDI

Long-Term Measurement Results

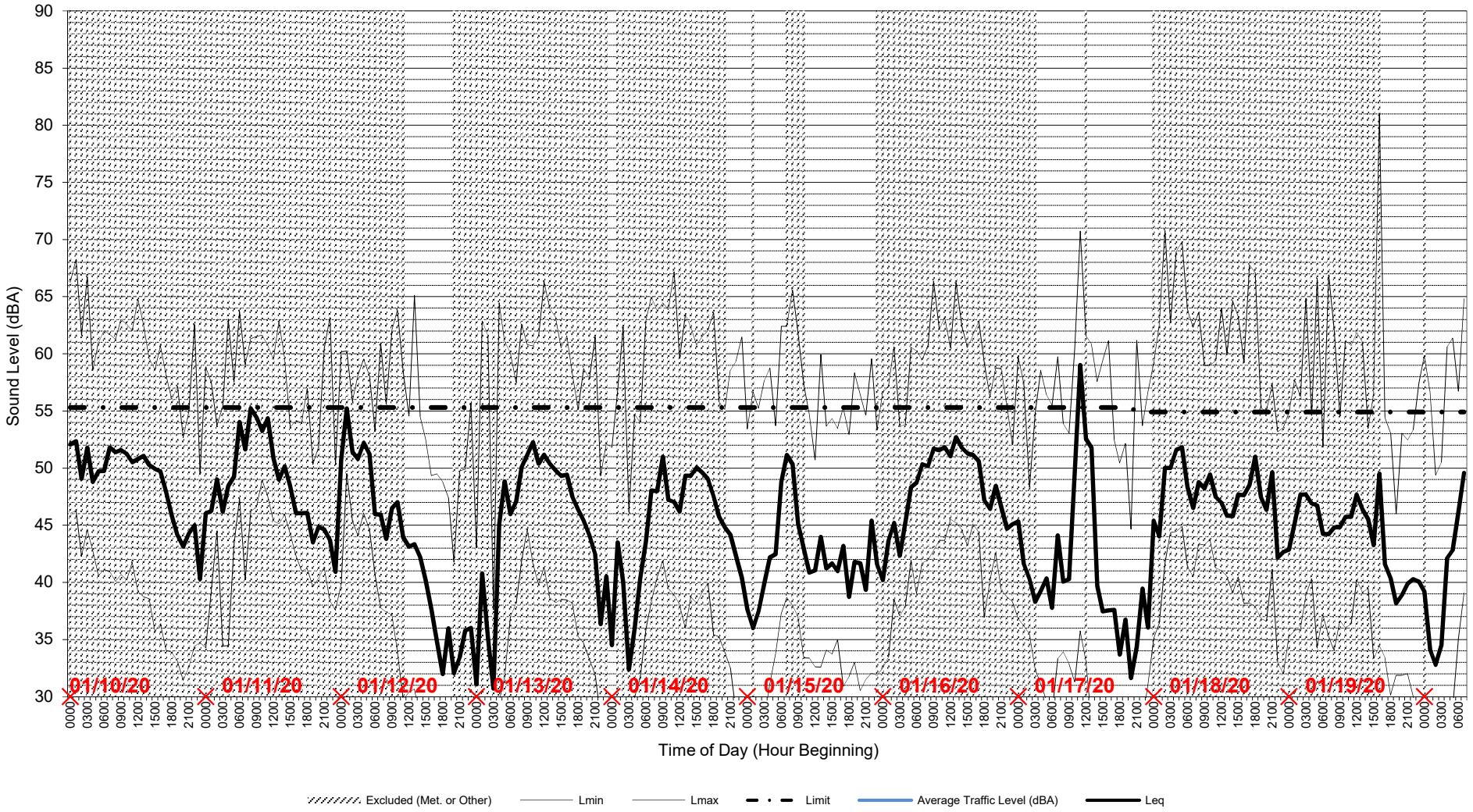
M3



Measured Ambient Sound Levels From Jan 30,2020 to Feb 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3c** Date: May 02, 2020	RWDI

Long-Term Measurement Results

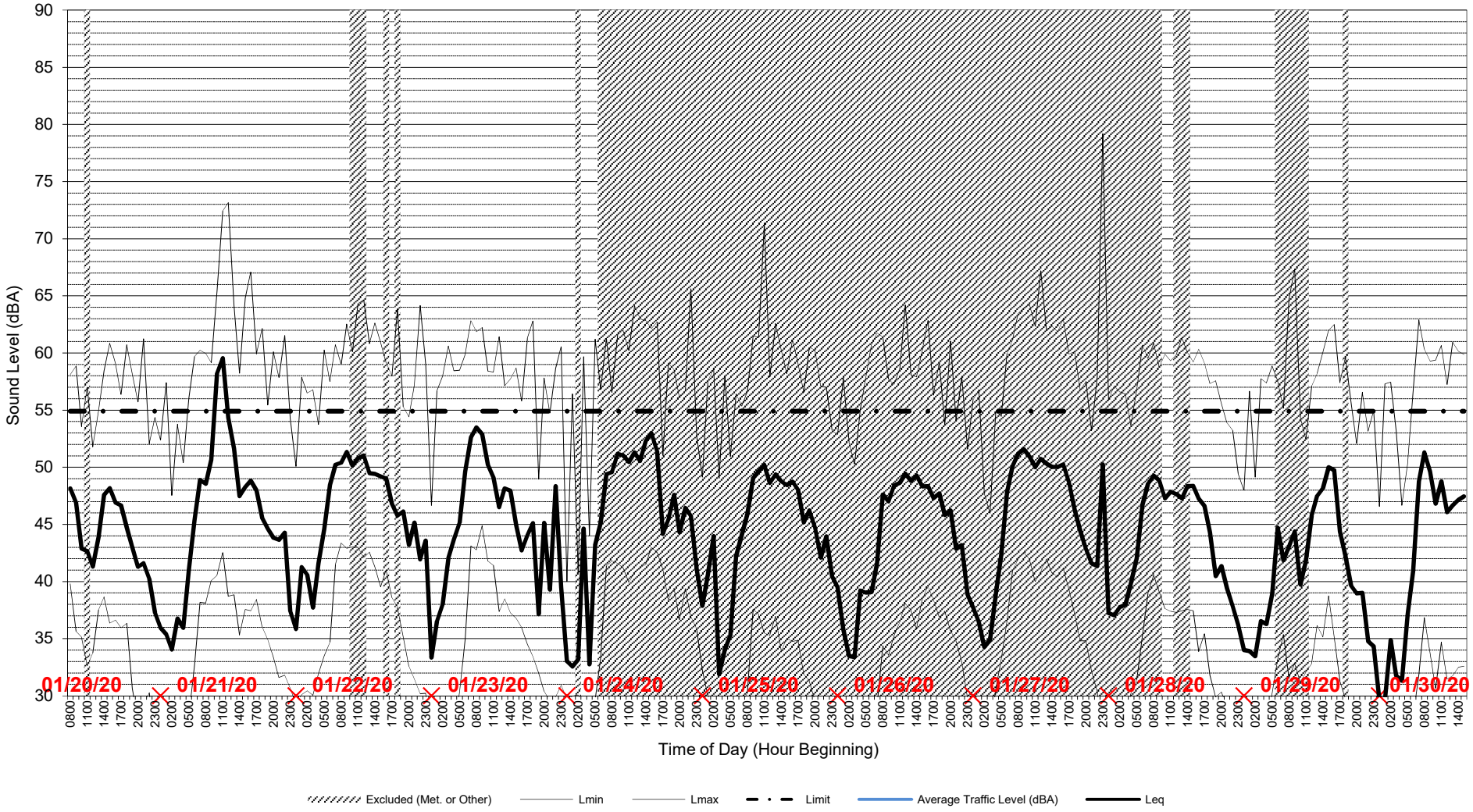
M4



Measured Ambient Sound Levels From Jan 10,2020 to Jan 20,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4a** Date: May 08, 2020	RWDI

Long-Term Measurement Results

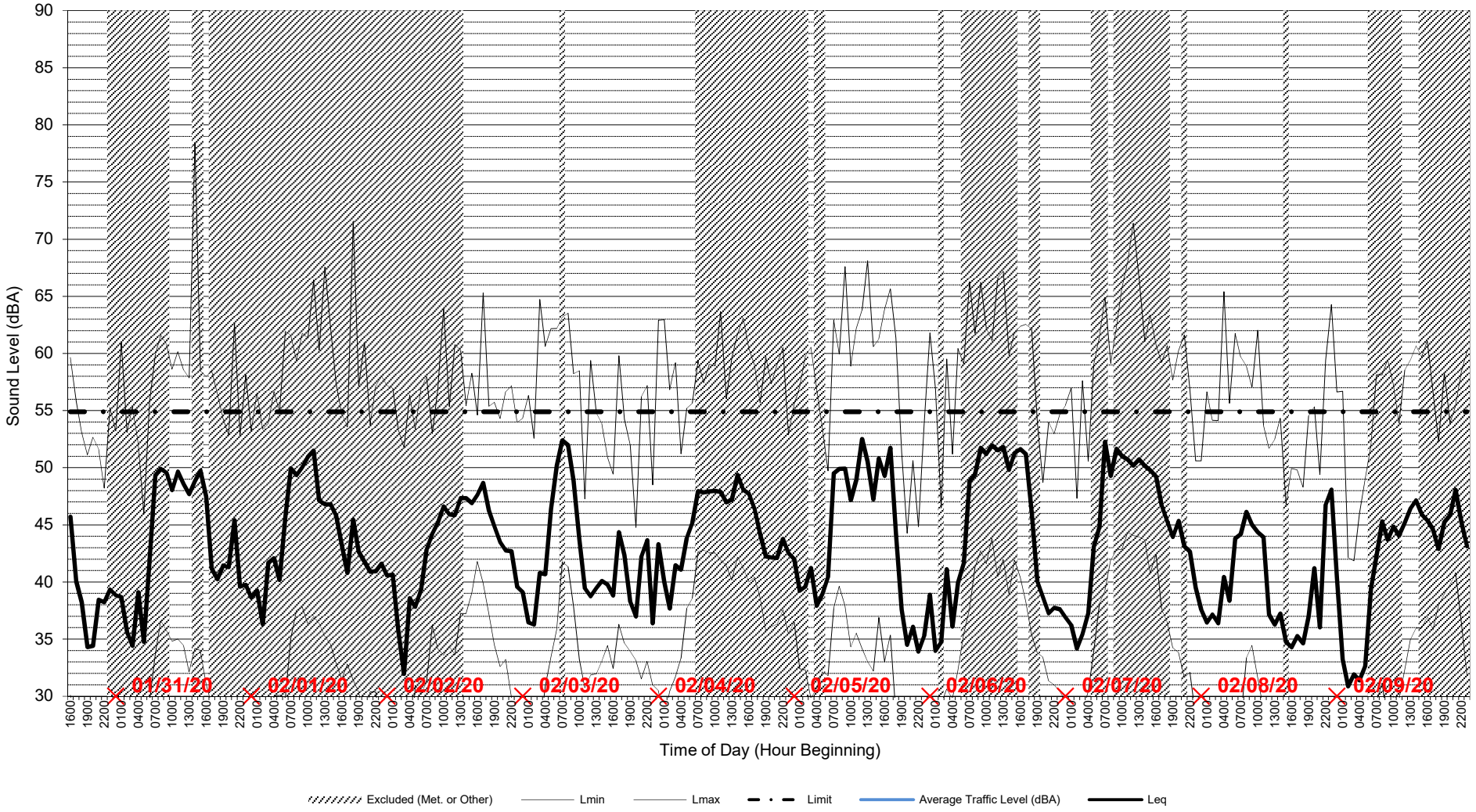
M4



Measured Ambient Sound Levels From Jan 20,2020 to Jan 30,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M4b** Date: May 08, 2020	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Jan 30,2020 to Feb 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4c** Date: May 08, 2020	RWDI

ATTACHMENT B



Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/1/2020 0:00	-2.4	19	29	SW (232)	87	0	
1/1/2020 1:00	-2.4	21	31	WSW (255)	86	0	
1/1/2020 2:00	-2.6	18	26	WSW (246)	93	0	
1/1/2020 3:00	-2.6	16	26	W (267)	87	0	
1/1/2020 4:00	-2.7	18	28	W (262)	86	0	
1/1/2020 5:00	-2.7	14	25	WSW (252)	86	0	
1/1/2020 6:00	-2.5	20	32	WSW (251)	77	0	
1/1/2020 7:00	-2.5	23	34	WSW (252)	73	0	0
1/1/2020 8:00	-2.8	17	30	W (278)	70	0	
1/1/2020 9:00	-3.1	19	28	W (277)	70	0	
1/1/2020 10:00	-2.7	16	26	SW (231)	70	0	
1/1/2020 11:00	-2.3	18	28	SW (234)	69	0.2	
1/1/2020 12:00	-1.7	18	28	SSW (209)	68	0	
1/1/2020 13:00	-1.2	18	27	SW (222)	67	0	
1/1/2020 14:00	-0.8	18	26	SSW (209)	67	0	
1/1/2020 15:00	-0.5	16	25	SSW (213)	72	0	
1/1/2020 16:00	-1.2	13	21	SSW (204)	75	0	
1/1/2020 17:00	-1.7	15	23	S (178)	78	0	
1/1/2020 18:00	-1.7	16	23	S (171)	81	0	
1/1/2020 19:00	-1.8	18	25	S (190)	84	0	
1/1/2020 20:00	-1.5	16	23	SSE (168)	88	0	
1/1/2020 21:00	-0.7	18	25	S (178)	88	0	
1/1/2020 22:00	0.4	19	29	SSE (165)	85	0	
1/1/2020 23:00	1.9	20	32	SSW (201)	80	0	
1/2/2020 0:00	2.5	23	35	SW (217)	74	0	
1/2/2020 1:00	2.4	22	34	S (182)	74	0	
1/2/2020 2:00	2.4	21	31	SSW (200)	72	0	
1/2/2020 3:00	2.5	21	31	SSE (159)	70	0	
1/2/2020 4:00	2.4	21	31	SSW (192)	69	0	
1/2/2020 5:00	2.2	21	33	SSW (195)	68	0	
1/2/2020 6:00	1.8	18	30	S (185)	70	0	
1/2/2020 7:00	1.4	17	27	SSW (194)	71	0	0.2
1/2/2020 8:00	1.8	17	28	SSW (196)	70	0	
1/2/2020 9:00	2.8	19	30	SSW (204)	68	0	
1/2/2020 10:00	3.1	18	28	SSW (207)	67	0	
1/2/2020 11:00	3.6	20	34	SSW (196)	66	0	
1/2/2020 12:00	4.1	22	34	S (190)	67	0	
1/2/2020 13:00	4.5	19	30	SSW (210)	68	0	
1/2/2020 14:00	5.8	20	32	S (187)	68	0	
1/2/2020 15:00	5.9	19	28	SSW (208)	72	0	
1/2/2020 16:00	5.6	17	27	SSW (213)	76	0	
1/2/2020 17:00	5.2	16	27	SSE (161)	78	0	
1/2/2020 18:00	5	15	24	SW (218)	80	0	
1/2/2020 19:00	5.1	15	23	S (183)	81	0	
1/2/2020 20:00	5.2	14	23	SW (221)	82	0	
1/2/2020 21:00	4.9	11	19	SSE (166)	84	0	
1/2/2020 22:00	5	12	21	S (175)	84	0	
1/2/2020 23:00	4.9	13	20	SSW (208)	84	0	
1/3/2020 0:00	4.8	13	23	SW (222)	86	0	
1/3/2020 1:00	4.9	14	21	SSW (195)	87	0	
1/3/2020 2:00	4.8	9	14	S (191)	89	0	
1/3/2020 3:00	4.4	7	17	SW (219)	100	0	
1/3/2020 4:00	4.6	10	17	S (186)	100	0	
1/3/2020 5:00	4.4	6	13	SSW (194)	100	0	
1/3/2020 6:00	4.4	7	13	WSW (238)	100	0	
1/3/2020 7:00	4.3	6	10	WSW (243)	100	0	0
1/3/2020 8:00	4.4	6	9	SW (236)	100	0	
1/3/2020 9:00	4.6	6	10	WNW (296)	100	0	
1/3/2020 10:00	5	5	11	WNW (292)	100	0	
1/3/2020 11:00	5.5	9	16	NW (311)	99	0	
1/3/2020 12:00	5	13	19	NW (307)	98	0	
1/3/2020 13:00	4.6	13	19	N (350)	83	0	
1/3/2020 14:00	4.3	10	14	NNW (344)	85	0	
1/3/2020 15:00	4	11	17	NW (318)	85	0	
1/3/2020 16:00	3.6	10	17	NNW (332)	85	0	
1/3/2020 17:00	3.1	12	17	N (11)	83	0	
1/3/2020 18:00	2.9	6	16	NNE (23)	83	0	
1/3/2020 19:00	2.8	5	8	N (1)	84	0	
1/3/2020 20:00	2.6	4	9	ENE (57)	85	0	
1/3/2020 21:00	2.6	4	8	NW (320)	84	0	
1/3/2020 22:00	2.4	6	12	NNW (337)	84	0	
1/3/2020 23:00	2.4	10	17	NNW (340)	85	0	
1/4/2020 0:00	2.2	8	14	NE (44)	88	0	
1/4/2020 1:00	2.1	7	14	NNE (23)	86	0	
1/4/2020 2:00	1.8	7	13	NE (48)	87	0	
1/4/2020 3:00	1.5	6	10	ENE (57)	86	0	
1/4/2020 4:00	1.4	5	8	NNE (29)	88	0	
1/4/2020 5:00	1.2	6	12	NNW (337)	91	0	
1/4/2020 6:00	1.2	6	10	NW (316)	89	0	
1/4/2020 7:00	1.1	6	9	NW (320)	88	0	0
1/4/2020 8:00	1.1	5	10	NNW (344)	87	0	
1/4/2020 9:00	1.3	9	15	N (3)	88	0	
1/4/2020 10:00	1.5	11	18	NW (321)	91	0	
1/4/2020 11:00	1.2	10	22	NNW (336)	100	0	
1/4/2020 12:00	0.9	17	30	NW (315)	100	0	
1/4/2020 13:00	0.4	20	32	NW (315)	100	0	
1/4/2020 14:00	-0.1	20	32	NW (305)	88	0	
1/4/2020 15:00	-0.8	18	31	NW (313)	100	0	
1/4/2020 16:00	-1	22	33	WNW (294)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/4/2020 17:00	-1	24	36	NW (310)	77	0	
1/4/2020 18:00	-1.1	22	33	NW (307)	74	0	
1/4/2020 19:00	-1.2	18	30	WNW (282)	92	0	
1/4/2020 20:00	-1.2	20	31	NW (314)	94	0	
1/4/2020 21:00	-1.1	21	34	WNW (303)	84	0	
1/4/2020 22:00	-1.1	22	36	WNW (292)	82	0	
1/4/2020 23:00	-1.3	22	37	NW (304)	86	0	
1/5/2020 0:00	-1.5	21	39	WNW (283)	86	0	
1/5/2020 1:00	-1.4	23	36	WNW (288)	82	0	
1/5/2020 2:00	-1.4	21	33	WNW (289)	81	0	
1/5/2020 3:00	-1.3	19	34	NNW (332)	79	0	
1/5/2020 4:00	-1.2	17	30	WNW (297)	76	0	
1/5/2020 5:00	-1.1	17	28	WNW (282)	77	0	
1/5/2020 6:00	-1.1	17	29	WNW (296)	76	0	
1/5/2020 7:00	-1.8	14	22	SW (227)	79	0	0
1/5/2020 8:00	-2	13	19	SW (232)	78	0	
1/5/2020 9:00	-1.8	12	18	WSW (238)	78	0	
1/5/2020 10:00	-0.7	15	26	SW (236)	75	0	
1/5/2020 11:00	0.5	17	28	SW (216)	69	0	
1/5/2020 12:00	0.8	20	29	SW (217)	64	0	
1/5/2020 13:00	0.1	19	34	SSW (204)	67	0	
1/5/2020 14:00	-0.2	18	32	SSW (203)	69	0	
1/5/2020 15:00	-1.1	19	32	S (176)	91	0	
1/5/2020 16:00	-1.7	19	27	SSE (159)	94	0	
1/5/2020 17:00	-1.7	16	24	SSE (154)	100	0	
1/5/2020 18:00	-1.6	19	27	SSE (156)	100	0	
1/5/2020 19:00	-1.2	16	23	SSE (157)	100	0	
1/5/2020 20:00	-0.6	18	28	S (169)	100	0	
1/5/2020 21:00	0.3	17	28	SW (219)	100	0	
1/5/2020 22:00	0.5	15	26	SW (233)	100	0	
1/5/2020 23:00	0.7	16	25	WSW (253)	100	0	
1/6/2020 0:00	0.9	16	26	WNW (287)	100	0.2	
1/6/2020 1:00	1.3	23	41	W (263)	100	0.4	
1/6/2020 2:00	1.3	23	35	WSW (239)	78	0.4	
1/6/2020 3:00	1	23	39	WSW (252)	84	0.8	
1/6/2020 4:00	0.9	20	40	W (264)	83	0	
1/6/2020 5:00	0.9	18	31	W (271)	77	0	
1/6/2020 6:00	0.6	17	30	W (281)	72	0	
1/6/2020 7:00	0	21	36	WNW (290)	63	0	1.8
1/6/2020 8:00	-1	16	25	WSW (253)	67	0	
1/6/2020 9:00	-1.2	14	25	W (264)	68	0	
1/6/2020 10:00	-0.3	20	33	WSW (242)	67	0.4	
1/6/2020 11:00	0	22	36	WSW (238)	66	0	
1/6/2020 12:00	0.9	24	35	SW (225)	62	0	
1/6/2020 13:00	1.9	22	36	SSW (200)	60	0.4	
1/6/2020 14:00	3	19	34	SW (233)	58	0.6	
1/6/2020 15:00	3.8	24	35	W (260)	50	0	
1/6/2020 16:00	3.1	24	35	WSW (251)	49	0	
1/6/2020 17:00	2	19	29	W (268)	54	0	
1/6/2020 18:00	0.9	13	22	W (268)	56	0	
1/6/2020 19:00	-0.2	13	18	WSW (237)	59	0	
1/6/2020 20:00	-0.5	12	17	WSW (241)	62	0	
1/6/2020 21:00	-0.9	10	16	W (262)	65	0	
1/6/2020 22:00	-1.5	12	16	W (271)	67	0	
1/6/2020 23:00	-2	9	13	SW (227)	73	0	
1/7/2020 0:00	-2.1	10	14	SW (231)	73	0	
1/7/2020 1:00	-2.5	9	13	WSW (237)	72	0	
1/7/2020 2:00	-2.5	7	11	SW (222)	74	0	
1/7/2020 3:00	-2.5	6	12	S (188)	75	0	
1/7/2020 4:00	-2.2	9	12	SSW (201)	78	0	
1/7/2020 5:00	-2	7	11	S (172)	82	0	
1/7/2020 6:00	-2	10	14	SSW (203)	82	0	
1/7/2020 7:00	-2	9	17	SW (227)	83	0	1.4
1/7/2020 8:00	-2	11	18	S (177)	82	0	
1/7/2020 9:00	-1.1	12	20	S (180)	78	0	
1/7/2020 10:00	0.3	11	20	SW (225)	76	0	
1/7/2020 11:00	1.6	11	18	SW (216)	70	0	
1/7/2020 12:00	2.1	11	19	SW (223)	71	0	
1/7/2020 13:00	3.5	13	20	SSW (204)	62	0	
1/7/2020 14:00	3.1	14	21	SSW (207)	65	0	
1/7/2020 15:00	2.9	12	19	SSW (192)	66	0	
1/7/2020 16:00	2.6	13	20	SSW (208)	67	0	
1/7/2020 17:00	2.2	18	34	W (270)	71	0	
1/7/2020 18:00	1.9	22	37	WSW (240)	69	0	
1/7/2020 19:00	0.7	20	29	SW (229)	78	0	
1/7/2020 20:00	0.1	19	29	WSW (250)	80	0	
1/7/2020 21:00	-0.6	16	26	WSW (243)	80	0	
1/7/2020 22:00	-0.6	17	24	WSW (239)	81	0	
1/7/2020 23:00	-0.4	22	30	WSW (242)	86	0	
1/8/2020 0:00	-1.5	20	34	WNW (289)	100	0	
1/8/2020 1:00	-1.8	17	30	W (274)	100	0	
1/8/2020 2:00	-1.4	18	28	WNW (302)	92	0	
1/8/2020 3:00	-1.9	20	33	WNW (303)	70	0	
1/8/2020 4:00	-2.4	20	31	W (281)	75	0	
1/8/2020 5:00	-3.9	29	51	NW (307)	81	0	
1/8/2020 6:00	-4.9	27	37	NW (308)	68	0	
1/8/2020 7:00	-5.2	23	32	WNW (302)	61	0	0
1/8/2020 8:00	-4.9	27	42	NW (310)	66	0	
1/8/2020 9:00	-5.3	30	47	NW (326)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/8/2020 10:00	-5.4	31	47	WNW (291)	71	0	
1/8/2020 11:00	-5.7	32	48	WNW (293)	80	0	
1/8/2020 12:00	-5.9	30	42	NW (306)	66	0	
1/8/2020 13:00	-6.3	26	38	WNW (302)	69	0	
1/8/2020 14:00	-6.5	26	41	NW (312)	69	0	
1/8/2020 15:00	-6.4	27	39	WNW (285)	60	0	
1/8/2020 16:00	-6.6	21	33	WNW (294)	68	0	
1/8/2020 17:00	-6.6	19	27	NW (313)	68	0	
1/8/2020 18:00	-6.5	15	24	WNW (282)	59	0	
1/8/2020 19:00	-6.5	12	18	WNW (297)	61	0	
1/8/2020 20:00	-6.6	7	12	W (261)	63	0	
1/8/2020 21:00	-6.7	6	10	W (267)	63	0	
1/8/2020 22:00	-7.2	10	13	WSW (239)	67	0	
1/8/2020 23:00	-8.1	9	14	SW (215)	66	0	
1/9/2020 0:00	-9	8	13	S (183)	69	0	
1/9/2020 1:00	-9	5	9	S (188)	69	0	
1/9/2020 2:00	-9.1	3	7	S (172)	75	0	
1/9/2020 3:00	-9.5	8	12	SE (139)	76	0	
1/9/2020 4:00	-9.3	9	13	ESE (122)	76	0	
1/9/2020 5:00	-8.8	11	16	ESE (114)	71	0	
1/9/2020 6:00	-8.2	17	23	SE (126)	66	0	
1/9/2020 7:00	-7.8	22	32	ESE (118)	68	0	0
1/9/2020 8:00	-7.1	23	33	SE (124)	70	0	
1/9/2020 9:00	-5.4	27	46	SSE (156)	73	0	
1/9/2020 10:00	-3.2	42	57	SE (143)	70	0	
1/9/2020 11:00	-2.9	43	58	SE (145)	68	0	
1/9/2020 12:00	-2.7	42	57	SSE (150)	71	0	
1/9/2020 13:00	-2.2	36	48	SSE (157)	71	0	
1/9/2020 14:00	-1.5	35	45	SE (127)	69	0	
1/9/2020 15:00	-1	35	44	ESE (122)	68	0	
1/9/2020 16:00	-0.6	31	44	SE (131)	67	0	
1/9/2020 17:00	-0.2	36	49	SE (128)	67	0	
1/9/2020 18:00	0.6	37	48	SE (136)	68	0	
1/9/2020 19:00	2	37	48	SSE (158)	65	0	
1/9/2020 20:00	3.4	33	45	SSE (153)	66	0	
1/9/2020 21:00	4.3	28	39	SSE (161)	67	0	
1/9/2020 22:00	5.9	28	40	S (172)	57	0	
1/9/2020 23:00	6.9	23	38	SSW (199)	59	0	
1/10/2020 0:00	7.2	25	42	SSW (194)	64	0	
1/10/2020 1:00	7	28	42	SW (218)	68	0	
1/10/2020 2:00	6.7	25	42	SSW (199)	74	0	
1/10/2020 3:00	6.2	25	38	SSW (210)	84	0	
1/10/2020 4:00	5.5	24	37	SSW (209)	99	0	
1/10/2020 5:00	5.3	23	37	S (189)	100	0	
1/10/2020 6:00	5.4	20	29	SSW (208)	100	0	
1/10/2020 7:00	5.4	17	27	SSW (196)	100	0	0
1/10/2020 8:00	5.4	16	26	SSW (213)	100	0	
1/10/2020 9:00	5.5	14	21	SW (217)	100	0	
1/10/2020 10:00	5.9	14	24	S (185)	100	0.2	
1/10/2020 11:00	6.3	13	22	SSW (202)	100	0.2	
1/10/2020 12:00	6.7	12	22	SW (217)	100	0	
1/10/2020 13:00	7	10	18	S (189)	100	0	
1/10/2020 14:00	7.1	9	16	S (191)	100	0	
1/10/2020 15:00	7.1	7	12	S (182)	100	0.4	
1/10/2020 16:00	7	6	10	S (170)	100	0	
1/10/2020 17:00	6.9	7	12	SSE (158)	100	0	
1/10/2020 18:00	6.9	8	12	SSE (151)	100	0	
1/10/2020 19:00	6.8	9	13	SSE (151)	100	0	
1/10/2020 20:00	6.9	9	12	SE (144)	100	0	
1/10/2020 21:00	6.9	11	16	SE (137)	100	0.2	
1/10/2020 22:00	6.9	15	23	SE (125)	100	0	
1/10/2020 23:00	6.9	19	25	SE (128)	100	0.2	
1/11/2020 0:00	7.6	18	23	SE (129)	100	1.6	
1/11/2020 1:00	8.7	20	29	SE (146)	100	2.2	
1/11/2020 2:00	9.8	20	30	S (172)	100	3.4	
1/11/2020 3:00	10.6	24	38	S (172)	100	0.8	
1/11/2020 4:00	10.8	22	37	S (179)	100	1.2	
1/11/2020 5:00	11.5	27	39	S (174)	100	0	
1/11/2020 6:00	12.4	29	43	S (179)	100	0	
1/11/2020 7:00	11.5	18	35	W (271)	100	4	14.4
1/11/2020 8:00	10.4	15	26	SSW (205)	100	10.2	
1/11/2020 9:00	5.6	22	34	N (0)	100	7.8	
1/11/2020 10:00	2.8	25	44	N (8)	100	4	
1/11/2020 11:00	2	24	40	N (11)	100	5.2	
1/11/2020 12:00	2	20	30	N (2)	100	2.8	
1/11/2020 13:00	2.4	19	30	NNE (27)	100	1.4	
1/11/2020 14:00	1.9	22	35	N (7)	100	3	
1/11/2020 15:00	1.8	22	29	N (9)	100	2.2	
1/11/2020 16:00	1.9	21	30	NNE (19)	100	0.2	
1/11/2020 17:00	2.1	18	28	N (1)	100	0.2	
1/11/2020 18:00	2	20	29	NNE (24)	100	0.6	
1/11/2020 19:00	2.1	17	32	NNE (31)	100	0.8	
1/11/2020 20:00	2.2	16	25	NNE (17)	100	2	
1/11/2020 21:00	2.2	11	18	NNE (28)	100	2	
1/11/2020 22:00	2.2	14	22	N (0)	100	1.8	
1/11/2020 23:00	2.1	17	23	N (9)	100	0.4	
1/12/2020 0:00	1.7	19	29	N (353)	100	4	
1/12/2020 1:00	0.9	20	30	NNW (328)	100	9.4	
1/12/2020 2:00	-0.2	25	45	NW (310)	100	3.4	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/12/2020 3:00	-1	27	44	NW (325)	100	0.4	
1/12/2020 4:00	-2.4	32	44	NW (311)	100	0	
1/12/2020 5:00	-3.1	31	43	NW (317)	100	0	
1/12/2020 6:00	-3.1	27	37	NW (313)	100	0	
1/12/2020 7:00	-3.2	29	44	W (272)	100	0	61.8
1/12/2020 8:00	-3.7	23	34	NW (305)	100	0	
1/12/2020 9:00	-4.2	21	30	WNW (287)	100	0	
1/12/2020 10:00	-4.3	18	27	W (260)	100	0	
1/12/2020 11:00	-4.1	14	21	W (280)	98	0	
1/12/2020 12:00	-4.1	12	19	WNW (302)	95	0	
1/12/2020 13:00	-4.1	11	20	WNW (289)	94	0	
1/12/2020 14:00	-4.1	9	15	NW (314)	94	0	
1/12/2020 15:00	-4.1	7	16	NNW (337)	92	0	
1/12/2020 16:00	-4.2	4	10	S (176)	91	0	
1/12/2020 17:00	-4.1	5	11	NNE (17)	91	0	
1/12/2020 18:00	-4.1	7	15	ESE (102)	91	0	
1/12/2020 19:00	-4.1	8	16	ESE (122)	94	0	
1/12/2020 20:00	-3.9	11	18	ESE (115)	96	0	
1/12/2020 21:00	-3.8	12	17	SE (130)	98	0	
1/12/2020 22:00	-3.6	10	15	E (92)	99	0	
1/12/2020 23:00	-3.5	14	21	E (93)	100	0	
1/13/2020 0:00	-3.1	13	18	ESE (112)	100	0	
1/13/2020 1:00	-2.9	16	23	ESE (115)	100	0	
1/13/2020 2:00	-2.7	10	16	ESE (123)	100	0	
1/13/2020 3:00	-2.5	12	17	ESE (123)	100	0	
1/13/2020 4:00	-2.2	16	25	SE (124)	100	0	
1/13/2020 5:00	-1.7	19	28	SE (134)	100	0	
1/13/2020 6:00	-1.4	19	25	SE (135)	100	0	
1/13/2020 7:00	-1.2	16	21	SSE (147)	100	0	0
1/13/2020 8:00	-0.6	15	20	SSE (155)	100	0	
1/13/2020 9:00	0.2	12	17	S (173)	100	0.2	
1/13/2020 10:00	1	11	18	SW (216)	100	0	
1/13/2020 11:00	1.2	14	23	SSW (193)	100	0	
1/13/2020 12:00	1.2	14	22	SW (220)	100	0	
1/13/2020 13:00	1.5	16	23	WSW (252)	100	0	
1/13/2020 14:00	1.6	15	26	SW (236)	100	0	
1/13/2020 15:00	1.5	14	23	W (260)	100	0	
1/13/2020 16:00	1.4	11	16	WSW (237)	100	0	
1/13/2020 17:00	1.1	8	14	WSW (251)	100	0	
1/13/2020 18:00	0.9	6	10	SW (229)	100	0	
1/13/2020 19:00	0.8	6	11	WSW (240)	100	0	
1/13/2020 20:00	0.7	4	8	NW (305)	100	0	
1/13/2020 21:00	0.7	3	7	WSW (255)	100	0	
1/13/2020 22:00	0.7	3	7	SE (141)	100	0	
1/13/2020 23:00	0.7	6	9	ESE (118)	100	0	
1/14/2020 0:00	0.8	7	14	SE (144)	95	0	
1/14/2020 1:00	0.3	9	12	ESE (122)	100	0	
1/14/2020 2:00	0.4	9	14	ESE (112)	100	0	
1/14/2020 3:00	0.2	12	17	ESE (102)	98	0	
1/14/2020 4:00	-0.1	12	16	SE (135)	99	0	
1/14/2020 5:00	-0.4	19	26	SE (125)	100	0	
1/14/2020 6:00	-0.1	18	25	ESE (121)	100	0	
1/14/2020 7:00	0.2	19	27	ESE (117)	100	0	0.2
1/14/2020 8:00	0.1	18	24	SE (126)	100	0	
1/14/2020 9:00	0.5	23	35	SE (134)	100	0	
1/14/2020 10:00	0.9	17	27	ESE (121)	100	0	
1/14/2020 11:00	1.3	16	22	SE (138)	100	0	
1/14/2020 12:00	2.1	18	24	SSE (148)	100	0	
1/14/2020 13:00	3	13	26	WSW (256)	100	0	
1/14/2020 14:00	3.4	15	21	SW (214)	100	0	
1/14/2020 15:00	3.7	16	25	WSW (248)	100	0	
1/14/2020 16:00	3.5	16	25	WSW (242)	100	0	
1/14/2020 17:00	3.4	13	27	W (264)	100	0	
1/14/2020 18:00	3.1	14	28	W (263)	100	0	
1/14/2020 19:00	2.8	12	21	WSW (251)	100	0	
1/14/2020 20:00	2.9	16	34	WNW (282)	97	0	
1/14/2020 21:00	3	17	32	WNW (288)	89	0	
1/14/2020 22:00	2.7	13	21	WNW (283)	91	0	
1/14/2020 23:00	2.5	12	20	WNW (290)	91	0	
1/15/2020 0:00	2.3	11	23	W (277)	92	0	
1/15/2020 1:00	2	10	16	W (274)	96	0	
1/15/2020 2:00	2	13	25	WSW (258)	90	0	
1/15/2020 3:00	1.9	13	22	NW (326)	88	0	
1/15/2020 4:00	1.3	11	17	NW (310)	89	0	
1/15/2020 5:00	0.8	9	14	NNW (345)	91	0	
1/15/2020 6:00	0.2	4	10	SSW (201)	95	0	
1/15/2020 7:00	0.4	8	14	S (189)	98	0	0
1/15/2020 8:00	0.4	7	11	SSE (165)	100	0	
1/15/2020 9:00	0.6	6	8	SSE (150)	100	0	
1/15/2020 10:00	1.6	7	11	SE (140)	99	0	
1/15/2020 11:00	2.6	7	15	S (179)	77	0	
1/15/2020 12:00	3.6	10	18	SSE (153)	71	0	
1/15/2020 13:00	4	12	24	ESE (110)	73	0	
1/15/2020 14:00	3.9	16	26	ESE (122)	74	0	
1/15/2020 15:00	4.1	15	21	SE (146)	73	0	
1/15/2020 16:00	3.5	15	24	ESE (106)	77	0	
1/15/2020 17:00	3	4	14	NNE (18)	81	0	
1/15/2020 18:00	2.7	9	13	ESE (109)	83	0	
1/15/2020 19:00	2.8	9	15	SE (134)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/15/2020 20:00	2.7	3	8	W (278)	83	0	
1/15/2020 21:00	2.5	4	8	WNW (292)	88	0	
1/15/2020 22:00	2.4	11	18	WNW (282)	91	0	
1/15/2020 23:00	2.2	15	26	W (264)	100	0	
1/16/2020 0:00	1.6	19	31	WNW (288)	100	0	
1/16/2020 1:00	1.1	23	42	WNW (287)	100	0	
1/16/2020 2:00	0.9	25	38	WNW (290)	100	0	
1/16/2020 3:00	0.7	23	37	WNW (286)	95	0	
1/16/2020 4:00	0.8	26	43	WNW (303)	85	0	
1/16/2020 5:00	0.6	32	44	WNW (303)	80	0	
1/16/2020 6:00	0.3	25	38	NW (306)	78	0	
1/16/2020 7:00	0.1	22	33	WNW (292)	77	0	0
1/16/2020 8:00	0.1	19	30	WNW (295)	79	0	
1/16/2020 9:00	-0.2	25	43	WNW (294)	80	0	
1/16/2020 10:00	-0.6	28	44	WNW (298)	82	0	
1/16/2020 11:00	-0.7	30	42	WNW (303)	88	0	
1/16/2020 12:00	-1.8	31	46	NW (308)	96	0	
1/16/2020 13:00	-1.4	30	44	WNW (299)	80	0	
1/16/2020 14:00	-1.7	33	50	NW (309)	79	0	
1/16/2020 15:00	-1.9	32	47	NW (312)	74	0	
1/16/2020 16:00	-2.1	32	44	WNW (292)	72	0	
1/16/2020 17:00	-2.3	31	45	NW (310)	71	0	
1/16/2020 18:00	-3.3	26	45	NNW (336)	96	0	
1/16/2020 19:00	-3.8	27	42	NNW (338)	91	0	
1/16/2020 20:00	-4	33	50	NW (326)	81	0	
1/16/2020 21:00	-4.6	31	50	NNW (336)	69	0	
1/16/2020 22:00	-5.4	30	43	WNW (303)	77	0	
1/16/2020 23:00	-5.8	32	45	NW (305)	78	0	
1/17/2020 0:00	-6.2	30	45	NW (308)	72	0	
1/17/2020 1:00	-6.3	27	37	NW (313)	77	0	
1/17/2020 2:00	-6.2	26	36	NW (314)	82	0	
1/17/2020 3:00	-6.2	23	34	NW (321)	83	0	
1/17/2020 4:00	-6.6	18	29	N (11)	88	0	
1/17/2020 5:00	-8	12	17	E (85)	88	0	
1/17/2020 6:00	-8.9	13	17	E (82)	85	0	
1/17/2020 7:00	-9.1	12	17	ENE (64)	81	0	0
1/17/2020 8:00	-9.2	11	17	E (79)	78	0	
1/17/2020 9:00	-8.9	9	15	E (83)	72	0	
1/17/2020 10:00	-8.2	12	18	ESE (105)	71	0	
1/17/2020 11:00	-7.8	14	19	ESE (107)	67	0	
1/17/2020 12:00	-7.7	13	18	ENE (67)	67	0.2	
1/17/2020 13:00	-7.4	13	20	ENE (69)	65	0	
1/17/2020 14:00	-7.2	11	15	ENE (75)	64	0	
1/17/2020 15:00	-6.9	10	16	ESE (119)	66	0	
1/17/2020 16:00	-7.3	10	14	E (90)	66	0	
1/17/2020 17:00	-8.1	9	12	E (98)	69	0	
1/17/2020 18:00	-8.1	9	13	SE (127)	69	0	
1/17/2020 19:00	-8.3	5	8	ENE (71)	70	0	
1/17/2020 20:00	-8.4	6	9	ENE (71)	71	0	
1/17/2020 21:00	-8	9	18	E (95)	74	0	
1/17/2020 22:00	-7.5	17	25	ESE (102)	78	0	
1/17/2020 23:00	-7.2	17	26	E (86)	79	0	
1/18/2020 0:00	-7	27	41	E (96)	83	0	
1/18/2020 1:00	-6.8	27	38	ESE (115)	84	0	
1/18/2020 2:00	-6.5	29	40	ESE (115)	83	0	
1/18/2020 3:00	-6.6	34	45	ESE (117)	88	0	
1/18/2020 4:00	-6.4	34	46	ESE (118)	89	0	
1/18/2020 5:00	-5.9	34	44	E (94)	88	0	
1/18/2020 6:00	-5.4	32	45	SE (125)	93	0	
1/18/2020 7:00	-4.7	29	38	ESE (119)	100	0	0.2
1/18/2020 8:00	-3.1	31	42	SE (128)	100	0	
1/18/2020 9:00	-1.9	35	45	SE (125)	100	0	
1/18/2020 10:00	-1	39	51	SE (132)	100	0	
1/18/2020 11:00	-0.6	37	49	SE (142)	100	0	
1/18/2020 12:00	0.4	33	47	SSE (159)	100	1.2	
1/18/2020 13:00	0.7	29	40	SSE (155)	100	1	
1/18/2020 14:00	1.1	26	38	SSE (166)	100	1.8	
1/18/2020 15:00	2	21	35	SW (219)	100	0.8	
1/18/2020 16:00	2.2	20	31	SSW (206)	100	0	
1/18/2020 17:00	2.5	27	45	WSW (247)	100	0	
1/18/2020 18:00	2.1	34	52	WSW (244)	100	0.2	
1/18/2020 19:00	1.2	33	53	SW (236)	100	0.2	
1/18/2020 20:00	1.5	32	49	W (266)	76	0	
1/18/2020 21:00	1.2	34	53	WSW (252)	74	0	
1/18/2020 22:00	-0.1	24	39	W (274)	88	0	
1/18/2020 23:00	-0.1	23	42	W (267)	86	0	
1/19/2020 0:00	-0.5	25	41	W (268)	79	0	
1/19/2020 1:00	-1.1	30	44	W (263)	81	0	
1/19/2020 2:00	-2.2	34	47	WSW (250)	80	0	
1/19/2020 3:00	-3.4	35	51	WSW (238)	80	0	
1/19/2020 4:00	-4.3	32	48	WSW (253)	80	0	
1/19/2020 5:00	-4.9	31	48	WSW (255)	79	0	
1/19/2020 6:00	-5.2	28	41	WSW (255)	77	0	
1/19/2020 7:00	-5.5	26	44	WSW (253)	78	0	5.2
1/19/2020 8:00	-6	27	39	W (266)	83	0	
1/19/2020 9:00	-6	23	33	W (263)	84	0	
1/19/2020 10:00	-5.8	22	34	W (260)	84	0	
1/19/2020 11:00	-5.3	24	38	W (280)	83	0	
1/19/2020 12:00	-4.8	27	39	WNW (297)	82	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/19/2020 13:00	-4.6	26	40	WNW (302)	83	0	
1/19/2020 14:00	-5.1	28	39	NW (317)	84	0	
1/19/2020 15:00	-5.6	23	38	NW (312)	86	0	
1/19/2020 16:00	-5.5	22	34	NW (322)	84	0	
1/19/2020 17:00	-5.7	18	31	NNW (332)	87	0	
1/19/2020 18:00	-6	14	22	N (8)	87	0	
1/19/2020 19:00	-7.2	10	17	NNE (29)	86	0	
1/19/2020 20:00	-8.5	8	13	NNE (30)	81	0	
1/19/2020 21:00	-8.6	4	11	SW (231)	84	0	
1/19/2020 22:00	-9.1	5	9	SW (230)	90	0	
1/19/2020 23:00	-9.4	2	7	WSW (241)	92	0	
1/20/2020 0:00	-10.2	4	9	N (0)	98	0	
1/20/2020 1:00	-10.2	4	7	WSW (254)	94	0	
1/20/2020 2:00	-11.3	4	6	WSW (252)	93	0	
1/20/2020 3:00	-12.4	4	7	W (265)	93	0	
1/20/2020 4:00	-11.9	3	6	N (3)	90	0	
1/20/2020 5:00	-10	1	5	NNW (337)	89	0	
1/20/2020 6:00	-9.5	1	3	SSE (150)	89	0	
1/20/2020 7:00	-10	3	7	ESE (111)	90	0	0
1/20/2020 8:00	-9.5	2	7	SE (136)	89	0	
1/20/2020 9:00	-8.4	4	9	SE (127)	85	0	
1/20/2020 10:00	-7.7	6	10	SW (223)	82	0	
1/20/2020 11:00	-6.9	4	9	SSW (210)	83	0.6	
1/20/2020 12:00	-6.4	4	7	SSW (210)	81	0	
1/20/2020 13:00	-5.7	4	8	W (270)	79	0	
1/20/2020 14:00	-5	8	23	WNW (289)	77	0	
1/20/2020 15:00	-5.2	14	24	W (276)	63	0	
1/20/2020 16:00	-6.2	9	15	W (267)	62	0	
1/20/2020 17:00	-8.4	8	12	W (270)	69	0	
1/20/2020 18:00	-8.2	8	11	WNW (296)	71	0	
1/20/2020 19:00	-6.2	15	23	NW (309)	70	0	
1/20/2020 20:00	-6.3	11	18	W (270)	68	0	
1/20/2020 21:00	-6.3	11	18	WSW (242)	70	0	
1/20/2020 22:00	-6.4	9	13	WSW (251)	72	0	
1/20/2020 23:00	-6	8	12	W (275)	73	0	
1/21/2020 0:00	-5.8	9	16	WNW (295)	70	0	
1/21/2020 1:00	-5.4	10	17	WNW (290)	69	0	
1/21/2020 2:00	-5.8	11	15	SW (229)	75	0	
1/21/2020 3:00	-6.4	12	17	SW (232)	77	0	
1/21/2020 4:00	-6.4	13	21	W (263)	75	0	
1/21/2020 5:00	-6.6	14	22	WSW (250)	72	0	
1/21/2020 6:00	-6.8	12	18	WSW (241)	71	0	
1/21/2020 7:00	-7	14	19	WSW (240)	73	0	0.6
1/21/2020 8:00	-7.1	14	20	WSW (241)	73	0	
1/21/2020 9:00	-7	15	20	SW (226)	73	0	
1/21/2020 10:00	-6.5	15	20	SW (226)	72	0	
1/21/2020 11:00	-6.2	13	21	SSW (206)	67	0	
1/21/2020 12:00	-5.8	14	23	SW (224)	66	0	
1/21/2020 13:00	-5.3	12	21	SSW (198)	65	0	
1/21/2020 14:00	-5.1	13	22	SSW (208)	64	0	
1/21/2020 15:00	-4.9	13	21	SSW (198)	66	0	
1/21/2020 16:00	-5	14	22	SSW (202)	70	0	
1/21/2020 17:00	-6	14	24	SSW (200)	74	0	
1/21/2020 18:00	-6.6	14	24	SSW (203)	74	0	
1/21/2020 19:00	-7	15	24	SSW (198)	75	0	
1/21/2020 20:00	-7.2	13	23	S (180)	77	0	
1/21/2020 21:00	-6.9	13	20	S (186)	78	0	
1/21/2020 22:00	-6.7	11	20	S (170)	80	0	
1/21/2020 23:00	-6.7	12	18	S (187)	82	0	
1/22/2020 0:00	-6.5	14	22	SSW (210)	83	0	
1/22/2020 1:00	-6.3	13	24	SSW (211)	83	0	
1/22/2020 2:00	-6.1	16	24	SSW (198)	83	0	
1/22/2020 3:00	-6.2	14	23	SSW (194)	86	0	
1/22/2020 4:00	-6.1	14	24	S (170)	88	0	
1/22/2020 5:00	-6.2	15	24	S (190)	88	0	
1/22/2020 6:00	-6.5	13	20	S (180)	89	0	
1/22/2020 7:00	-6.4	12	20	SSW (206)	87	0	0
1/22/2020 8:00	-6.3	13	19	SSW (196)	86	0	
1/22/2020 9:00	-5.5	17	26	S (184)	84	0	
1/22/2020 10:00	-4.6	19	30	SW (229)	78	0	
1/22/2020 11:00	-3.6	20	34	SW (221)	73	0	
1/22/2020 12:00	-2.7	19	31	SSE (158)	68	0	
1/22/2020 13:00	-2.3	18	32	SSW (206)	68	0	
1/22/2020 14:00	-2.3	17	27	SSW (204)	69	0	
1/22/2020 15:00	-2.4	14	25	SSW (195)	70	0	
1/22/2020 16:00	-2.6	22	33	S (170)	71	0	
1/22/2020 17:00	-3.1	17	26	SSE (165)	72	0	
1/22/2020 18:00	-3.5	19	27	S (171)	75	0	
1/22/2020 19:00	-3.5	16	24	SSE (165)	76	0	
1/22/2020 20:00	-3.5	14	20	S (173)	76	0	
1/22/2020 21:00	-3.3	8	14	S (187)	75	0	
1/22/2020 22:00	-4	6	11	SE (135)	80	0	
1/22/2020 23:00	-4.2	9	12	SE (126)	80	0	
1/23/2020 0:00	-4.8	6	13	SE (136)	83	0	
1/23/2020 1:00	-3.9	14	17	SE (137)	82	0	
1/23/2020 2:00	-3.2	12	19	SE (146)	80	0	
1/23/2020 3:00	-2.8	11	16	SE (138)	79	0	
1/23/2020 4:00	-3	10	16	SE (142)	80	0	
1/23/2020 5:00	-2.5	10	14	SSE (167)	80	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/23/2020 6:00	-2.3	11	15	SE (146)	80	0	
1/23/2020 7:00	-2.3	13	18	SSE (152)	81	0	0
1/23/2020 8:00	-1.9	13	18	SSE (167)	79	0	
1/23/2020 9:00	-0.9	11	16	SE (128)	77	0	
1/23/2020 10:00	-0.4	12	16	SE (134)	77	0	
1/23/2020 11:00	1	12	19	SE (135)	76	0	
1/23/2020 12:00	2.1	12	19	SE (141)	69	0	
1/23/2020 13:00	2.8	11	15	SSE (149)	66	0	
1/23/2020 14:00	2.8	11	15	SE (126)	65	0	
1/23/2020 15:00	2.1	14	18	ESE (123)	69	0	
1/23/2020 16:00	1.8	12	16	SE (126)	72	0	
1/23/2020 17:00	1.2	12	18	SE (126)	75	0	
1/23/2020 18:00	0.8	17	21	ESE (117)	74	0	
1/23/2020 19:00	0.6	17	22	ESE (112)	74	0	
1/23/2020 20:00	0.6	17	23	ESE (119)	69	0	
1/23/2020 21:00	0.6	15	21	ESE (105)	63	0	
1/23/2020 22:00	0.4	15	21	E (93)	66	0	
1/23/2020 23:00	0.3	17	27	E (94)	67	0	
1/24/2020 0:00	0.8	18	22	ESE (103)	61	0	
1/24/2020 1:00	1	18	23	ESE (119)	63	0	
1/24/2020 2:00	1	20	26	ESE (114)	64	0	
1/24/2020 3:00	0.9	18	24	E (100)	66	0	
1/24/2020 4:00	1.2	15	20	E (97)	65	0	
1/24/2020 5:00	1.7	18	24	ENE (70)	64	0	
1/24/2020 6:00	2.2	22	29	ENE (72)	58	0	
1/24/2020 7:00	2.1	22	29	E (92)	66	0	0
1/24/2020 8:00	2	20	29	SE (129)	67	0	
1/24/2020 9:00	2.2	22	31	ESE (119)	65	0	
1/24/2020 10:00	2.8	24	35	E (100)	64	0	
1/24/2020 11:00	2.8	23	35	ESE (118)	67	0	
1/24/2020 12:00	2.8	25	33	E (88)	70	0	
1/24/2020 13:00	2.5	26	37	ESE (108)	79	0.8	
1/24/2020 14:00	2.2	25	33	E (96)	82	1	
1/24/2020 15:00	2	25	35	ESE (104)	86	1	
1/24/2020 16:00	2	27	36	E (101)	94	1.8	
1/24/2020 17:00	1.9	26	37	ESE (109)	100	0.4	
1/24/2020 18:00	2.3	26	35	ESE (107)	100	0.2	
1/24/2020 19:00	3	28	40	SE (124)	100	1.2	
1/24/2020 20:00	3.2	24	35	ESE (117)	100	1.6	
1/24/2020 21:00	3.5	29	42	SE (128)	100	0.4	
1/24/2020 22:00	3.8	26	38	SE (132)	100	0.4	
1/24/2020 23:00	3.8	28	38	SE (141)	100	0	
1/25/2020 0:00	3.5	25	34	SE (138)	100	0	
1/25/2020 1:00	3.2	21	28	SE (134)	100	0	
1/25/2020 2:00	3	18	23	SE (129)	100	0	
1/25/2020 3:00	2.7	15	21	SE (124)	100	0	
1/25/2020 4:00	2.5	12	16	ESE (113)	100	0	
1/25/2020 5:00	2.3	10	14	SE (134)	100	0	
1/25/2020 6:00	2.4	8	12	SSE (167)	100	0	
1/25/2020 7:00	2.4	7	13	SSW (202)	100	0	8.8
1/25/2020 8:00	2.2	10	20	SSW (198)	100	0	
1/25/2020 9:00	1.8	14	22	S (188)	100	0.2	
1/25/2020 10:00	1.5	13	21	SW (231)	100	0.2	
1/25/2020 11:00	1.4	13	22	SW (229)	100	0	
1/25/2020 12:00	1.7	14	25	SW (233)	100	0	
1/25/2020 13:00	1.7	16	28	SW (224)	100	0	
1/25/2020 14:00	1.8	14	25	SW (232)	100	0	
1/25/2020 15:00	1.7	15	23	SW (220)	100	0	
1/25/2020 16:00	1.5	15	23	SW (226)	100	0	
1/25/2020 17:00	1.2	12	26	SSW (199)	100	0	
1/25/2020 18:00	1	10	18	SSW (196)	100	0	
1/25/2020 19:00	1	10	19	SW (219)	100	0	
1/25/2020 20:00	0.4	10	16	SW (215)	100	0	
1/25/2020 21:00	0.1	10	17	SW (218)	100	0	
1/25/2020 22:00	0	11	18	SSW (210)	100	0	
1/25/2020 23:00	-0.1	12	19	SW (226)	100	0	
1/26/2020 0:00	0	15	23	SW (230)	100	0.2	
1/26/2020 1:00	0.1	16	25	WSW (248)	100	0	
1/26/2020 2:00	0.2	14	19	SW (230)	100	0	
1/26/2020 3:00	0.2	16	21	SW (233)	100	0	
1/26/2020 4:00	0.2	16	23	WSW (253)	100	0.4	
1/26/2020 5:00	0.3	16	23	SW (235)	100	0.2	
1/26/2020 6:00	0.3	17	22	WSW (249)	100	0.2	
1/26/2020 7:00	0.5	17	24	SW (232)	100	0.4	1.8
1/26/2020 8:00	0.7	17	24	SW (220)	100	0	
1/26/2020 9:00	0.9	18	26	WSW (238)	100	0	
1/26/2020 10:00	1.1	20	28	SW (235)	100	0	
1/26/2020 11:00	1.4	21	30	SW (227)	100	0	
1/26/2020 12:00	1.7	23	35	WSW (243)	100	0	
1/26/2020 13:00	1.9	22	34	SW (234)	100	0	
1/26/2020 14:00	1.9	23	34	WSW (256)	100	0	
1/26/2020 15:00	1.4	21	33	W (262)	100	1	
1/26/2020 16:00	1.2	19	32	W (262)	100	0.4	
1/26/2020 17:00	0.8	17	32	WSW (242)	100	0.2	
1/26/2020 18:00	0.3	17	24	WSW (257)	100	0.2	
1/26/2020 19:00	0.3	17	24	WNW (285)	100	0	
1/26/2020 20:00	0.5	18	26	W (266)	100	0.4	
1/26/2020 21:00	0.5	16	25	W (267)	100	0.2	
1/26/2020 22:00	0.5	16	28	WNW (296)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/26/2020 23:00	0.6	19	29	WNW (282)	100	0	
1/27/2020 0:00	0.5	17	25	WNW (300)	100	0	
1/27/2020 1:00	0.2	15	25	WNW (296)	99	0	
1/27/2020 2:00	0.1	16	25	WNW (296)	100	0	
1/27/2020 3:00	0	16	24	WNW (300)	100	0	
1/27/2020 4:00	-0.1	18	28	NW (306)	100	0	
1/27/2020 5:00	-0.6	18	28	WNW (298)	100	0	
1/27/2020 6:00	-0.6	15	23	W (279)	100	0	
1/27/2020 7:00	-0.4	18	27	NW (310)	100	0	2.4
1/27/2020 8:00	-0.4	19	28	WNW (298)	100	0	
1/27/2020 9:00	-0.4	19	26	NW (312)	100	0	
1/27/2020 10:00	-0.3	19	29	NNW (327)	100	0.2	
1/27/2020 11:00	0.3	20	29	NNW (331)	100	0	
1/27/2020 12:00	-0.1	24	33	NW (322)	100	0	
1/27/2020 13:00	-0.1	25	38	NW (306)	100	0	
1/27/2020 14:00	0	24	33	NW (308)	100	0	
1/27/2020 15:00	0	22	29	NW (308)	100	0	
1/27/2020 16:00	-0.1	23	33	NNW (329)	100	0	
1/27/2020 17:00	-0.1	22	29	WNW (300)	100	0	
1/27/2020 18:00	-0.2	18	26	NW (305)	100	0	
1/27/2020 19:00	-0.2	17	25	WNW (302)	100	0	
1/27/2020 20:00	-0.1	14	20	NW (323)	100	0	
1/27/2020 21:00	-0.1	13	19	NW (308)	100	0	
1/27/2020 22:00	-0.1	12	17	WNW (300)	100	0	
1/27/2020 23:00	-0.1	12	17	WNW (303)	100	0	
1/28/2020 0:00	-0.1	13	17	WNW (297)	100	0	
1/28/2020 1:00	-0.1	15	23	WNW (297)	100	0	
1/28/2020 2:00	-0.1	16	22	NW (309)	100	0	
1/28/2020 3:00	-0.1	16	22	NW (313)	100	0	
1/28/2020 4:00	-0.4	14	21	NW (310)	100	0	
1/28/2020 5:00	-0.3	14	20	NW (315)	100	0	
1/28/2020 6:00	-0.3	12	18	NW (317)	98	0	
1/28/2020 7:00	-0.4	11	17	NW (315)	100	0	0
1/28/2020 8:00	-0.4	11	17	NW (310)	100	0	
1/28/2020 9:00	-0.3	13	21	NW (325)	99	0	
1/28/2020 10:00	-0.2	10	15	NW (306)	95	0	
1/28/2020 11:00	-0.3	12	23	NW (308)	93	0	
1/28/2020 12:00	-0.4	15	22	NW (316)	100	0	
1/28/2020 13:00	-0.8	15	24	NNW (327)	100	0	
1/28/2020 14:00	-0.6	19	26	NW (320)	92	0	
1/28/2020 15:00	-1.1	18	26	NW (312)	92	0	
1/28/2020 16:00	-1.4	14	21	NNW (328)	91	0	
1/28/2020 17:00	-1.6	15	24	NW (309)	88	0	
1/28/2020 18:00	-1.9	16	23	NW (312)	83	0	
1/28/2020 19:00	-2.1	13	22	NW (319)	85	0	
1/28/2020 20:00	-2.1	12	19	NW (323)	87	0	
1/28/2020 21:00	-2	12	17	NNW (327)	87	0	
1/28/2020 22:00	-1.9	12	21	NW (311)	87	0	
1/28/2020 23:00	-1.8	10	19	NW (313)	80	0	
1/29/2020 0:00	-1.8	12	22	NW (324)	82	0	
1/29/2020 1:00	-1.6	11	20	NW (312)	79	0	
1/29/2020 2:00	-1.5	10	18	N (354)	80	0	
1/29/2020 3:00	-1.5	11	22	WNW (294)	75	0	
1/29/2020 4:00	-1.6	8	12	NNE (14)	87	0	
1/29/2020 5:00	-1.9	5	8	WNW (301)	95	0	
1/29/2020 6:00	-2	8	17	NNW (345)	100	0	
1/29/2020 7:00	-2.3	5	11	SE (136)	100	0	0
1/29/2020 8:00	-2.2	5	8	ESE (123)	100	0	
1/29/2020 9:00	-2	7	10	ESE (122)	100	0	
1/29/2020 10:00	-1.7	8	11	ESE (115)	100	0	
1/29/2020 11:00	-1.4	7	12	ENE (75)	96	0.2	
1/29/2020 12:00	-1.3	7	12	NE (53)	78	0	
1/29/2020 13:00	-0.8	7	14	NNE (29)	73	0	
1/29/2020 14:00	-1.1	11	18	NW (321)	73	0	
1/29/2020 15:00	-1.5	14	19	NNE (30)	76	0	
1/29/2020 16:00	-2.2	12	17	NNW (346)	76	0	
1/29/2020 17:00	-2.9	10	16	NNW (327)	77	0	
1/29/2020 18:00	-3.3	7	12	NW (320)	77	0.2	
1/29/2020 19:00	-3.4	8	13	N (0)	78	0	
1/29/2020 20:00	-3.5	7	12	N (7)	78	0	
1/29/2020 21:00	-3.4	6	10	NW (326)	76	0	
1/29/2020 22:00	-3.3	5	9	NNW (336)	76	0	
1/29/2020 23:00	-3.3	7	9	NE (54)	78	0	
1/30/2020 0:00	-3.4	6	10	E (87)	79	0	
1/30/2020 1:00	-3.4	10	13	E (92)	82	0	
1/30/2020 2:00	-3.5	5	8	NE (49)	83	0	
1/30/2020 3:00	-3.5	4	6	N (11)	83	0	
1/30/2020 4:00	-3.4	5	7	NE (53)	85	0	
1/30/2020 5:00	-3.2	7	11	SE (124)	86	0	
1/30/2020 6:00	-3.4	10	16	ESE (116)	86	0	
1/30/2020 7:00	-3.6	12	17	ESE (121)	84	0	0.4
1/30/2020 8:00	-3.8	12	16	E (98)	82	0	
1/30/2020 9:00	-3.5	9	14	ESE (107)	80	0	
1/30/2020 10:00	-2.8	5	9	E (95)	77	0	
1/30/2020 11:00	-1.7	3	7	SE (140)	74	0	
1/30/2020 12:00	-0.7	3	7	NNW (329)	64	0	
1/30/2020 13:00	-0.5	4	9	N (2)	62	0	
1/30/2020 14:00	-0.5	5	9	NE (37)	62	0	
1/30/2020 15:00	-0.5	2	5	ENE (65)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
1/30/2020 16:00	-0.8	1	4	N (355)	62	0	
1/30/2020 17:00	-0.9	2	4	NNE (23)	62	0	
1/30/2020 18:00	-1.1	3	7	ENE (62)	70	0	
1/30/2020 19:00	-1.5	4	6	ENE (61)	75	0	
1/30/2020 20:00	-1.6	4	5	E (82)	78	0	
1/30/2020 21:00	-1.6	6	10	SSE (152)	82	0	
1/30/2020 22:00	-1.9	6	9	S (171)	83	0	
1/30/2020 23:00	-2.2	6	10	SSW (209)	100	0	
1/31/2020 0:00	-2.2	5	9	SSE (161)	100	0	
1/31/2020 1:00	-2.2	4	8	S (171)	100	0	
1/31/2020 2:00	-2.2	4	8	WSW (253)	100	0	
1/31/2020 3:00	-2.2	3	6	SSW (200)	100	0	
1/31/2020 4:00	-2.3	3	6	SW (220)	100	0	
1/31/2020 5:00	-2.2	4	6	SE (134)	100	0	
1/31/2020 6:00	-2.2	5	7	ESE (121)	100	0	
1/31/2020 7:00	-2.2	8	12	SE (139)	100	0	0
1/31/2020 8:00	-2.1	11	15	SE (134)	99	0	
1/31/2020 9:00	-1.9	8	12	SE (135)	96	0	
1/31/2020 10:00	-1.4	7	12	SE (139)	82	0	
1/31/2020 11:00	-1.1	11	15	SE (129)	81	0	
1/31/2020 12:00	-0.9	11	13	SE (132)	79	0	
1/31/2020 13:00	-1.1	5	11	W (260)	86	0	
1/31/2020 14:00	-1.5	2	4	NW (320)	92	0.2	
1/31/2020 15:00	-1.4	3	7	NW (319)	99	0.2	
1/31/2020 16:00	-1.5	5	7	N (354)	95	0	
1/31/2020 17:00	-1.5	3	6	N (0)	100	0	
1/31/2020 18:00	-1.5	3	5	WSW (258)	100	0	
1/31/2020 19:00	-1.7	3	6	SSW (193)	100	0	
1/31/2020 20:00	-1.8	3	5	SW (219)	98	0	
1/31/2020 21:00	-1.9	2	4	SE (137)	100	0	
1/31/2020 22:00	-1.9	3	5	WSW (242)	99	0	
1/31/2020 23:00	-2.8	2	4	SSW (194)	100	0	
2/1/2020 0:00	-3.4	4	8	S (189)	100	0	
2/1/2020 1:00	-3.5	7	10	SSW (201)	100	0	
2/1/2020 2:00	-3.2	4	8	SSW (209)	100	0	
2/1/2020 3:00	-3.8	7	9	SSE (168)	100	0	
2/1/2020 4:00	-4.3	8	10	S (181)	100	0	
2/1/2020 5:00	-4.5	7	9	SSE (151)	100	0	
2/1/2020 6:00	-4.8	7	10	SSW (192)	100	0	
2/1/2020 7:00	-4.9	7	12	SSE (164)	100	0	0.4
2/1/2020 8:00	-4.1	8	13	S (175)	100	0	
2/1/2020 9:00	-2.7	7	12	S (174)	100	0	
2/1/2020 10:00	-1.4	10	17	SW (214)	100	0.4	
2/1/2020 11:00	-1	16	28	S (172)	97	0	
2/1/2020 12:00	-1	16	29	SSW (209)	96	0	
2/1/2020 13:00	-1.1	15	24	SSE (168)	100	0	
2/1/2020 14:00	-1	17	28	S (175)	100	0	
2/1/2020 15:00	-0.9	16	27	S (176)	96	0	
2/1/2020 16:00	-1.3	17	24	S (173)	100	0	
2/1/2020 17:00	-1.4	17	25	S (171)	100	0	
2/1/2020 18:00	-1.3	15	27	S (189)	100	0	
2/1/2020 19:00	-1.1	13	22	SSW (194)	100	0	
2/1/2020 20:00	-0.6	12	20	SW (214)	100	0	
2/1/2020 21:00	0	17	26	WSW (248)	100	0	
2/1/2020 22:00	0.1	13	21	SW (234)	100	0	
2/1/2020 23:00	0	11	16	WSW (247)	100	0	
2/2/2020 0:00	-0.7	13	18	WSW (250)	100	0	
2/2/2020 1:00	-1.9	13	18	WSW (242)	100	0	
2/2/2020 2:00	-2.1	12	16	SW (227)	100	0	
2/2/2020 3:00	-1.4	11	18	SW (225)	100	0	
2/2/2020 4:00	-0.6	13	19	SSE (168)	100	0	
2/2/2020 5:00	-0.2	16	26	SSW (196)	100	0	
2/2/2020 6:00	-0.6	16	25	S (174)	100	0	
2/2/2020 7:00	-0.8	21	32	S (184)	100	0	0.4
2/2/2020 8:00	-0.5	23	34	S (186)	100	0	
2/2/2020 9:00	0.2	21	38	SSE (160)	100	0.2	
2/2/2020 10:00	0.8	15	27	S (184)	100	0.8	
2/2/2020 11:00	1.1	15	24	SSW (192)	96	1.6	
2/2/2020 12:00	1.3	12	25	SW (215)	96	0.4	
2/2/2020 13:00	1.5	12	21	SW (219)	96	0.2	
2/2/2020 14:00	1.9	11	17	WSW (243)	94	0	
2/2/2020 15:00	2.2	7	13	SW (224)	94	0	
2/2/2020 16:00	2.4	5	7	SW (224)	93	0	
2/2/2020 17:00	2.5	4	6	SW (228)	83	0	
2/2/2020 18:00	2.2	4	7	SW (230)	88	0	
2/2/2020 19:00	1.9	3	7	SSW (210)	89	0	
2/2/2020 20:00	2.7	11	30	NW (309)	88	0	
2/2/2020 21:00	3.9	17	32	W (277)	76	0	
2/2/2020 22:00	3.2	7	13	W (265)	79	0	
2/2/2020 23:00	3.4	9	19	W (263)	79	0	
2/3/2020 0:00	4	15	27	NW (313)	75	0	
2/3/2020 1:00	4	14	22	W (276)	75	0	
2/3/2020 2:00	2.9	10	19	WNW (285)	79	0	
2/3/2020 3:00	2.8	11	17	NW (309)	78	0	
2/3/2020 4:00	2.6	11	15	NW (309)	79	0	
2/3/2020 5:00	1.6	6	11	W (260)	84	0	
2/3/2020 6:00	1	5	6	WNW (284)	85	0	
2/3/2020 7:00	0.1	3	8	SSW (198)	100	0	3.2
2/3/2020 8:00	1.2	6	9	S (187)	87	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/3/2020 9:00	2.2	4	8	SW (219)	84	0	
2/3/2020 10:00	3.9	2	5	SE (131)	82	0	
2/3/2020 11:00	4.7	5	7	ENE (68)	76	0	
2/3/2020 12:00	4.6	6	9	ESE (113)	76	0	
2/3/2020 13:00	5.2	6	12	NE (55)	73	0	
2/3/2020 14:00	5.6	8	13	ENE (66)	74	0	
2/3/2020 15:00	5.8	12	16	ENE (75)	73	0	
2/3/2020 16:00	5.3	12	19	ENE (68)	75	0	
2/3/2020 17:00	3.3	12	16	ENE (59)	82	0	
2/3/2020 18:00	1.7	13	19	ENE (70)	84	0	
2/3/2020 19:00	1.7	14	17	ENE (75)	84	0	
2/3/2020 20:00	2	12	16	E (82)	83	0	
2/3/2020 21:00	2.2	8	16	NE (36)	84	0	
2/3/2020 22:00	1.6	8	12	NE (38)	87	0	
2/3/2020 23:00	0.9	8	14	ENE (59)	88	0	
2/4/2020 0:00	0.6	8	11	NNW (347)	94	0	
2/4/2020 1:00	0.8	9	13	NNE (13)	90	0	
2/4/2020 2:00	0.9	9	14	N (353)	89	0	
2/4/2020 3:00	0.8	11	19	NNW (346)	87	0	
2/4/2020 4:00	0.7	13	21	NNE (19)	86	0	
2/4/2020 5:00	0.7	15	23	N (5)	86	0	
2/4/2020 6:00	0.5	17	25	N (2)	84	0	
2/4/2020 7:00	0.5	22	33	N (8)	83	0	0
2/4/2020 8:00	0.7	21	32	N (2)	81	0	
2/4/2020 9:00	0.7	22	31	N (3)	81	0	
2/4/2020 10:00	0.8	24	37	N (4)	80	0	
2/4/2020 11:00	0.7	23	35	N (352)	78	0	
2/4/2020 12:00	0.6	22	31	N (0)	76	0	
2/4/2020 13:00	0.6	20	35	N (2)	76	0	
2/4/2020 14:00	0.4	24	38	N (1)	74	0	
2/4/2020 15:00	0.1	24	38	N (1)	75	0	
2/4/2020 16:00	-0.4	24	34	NNW (346)	75	0	
2/4/2020 17:00	-0.8	23	33	N (0)	74	0	
2/4/2020 18:00	-1.1	23	34	N (354)	75	0	
2/4/2020 19:00	-1.3	21	33	N (353)	75	0	
2/4/2020 20:00	-1.5	23	35	NNE (24)	75	0	
2/4/2020 21:00	-1.6	22	34	N (8)	73	0	
2/4/2020 22:00	-2	23	38	NNW (347)	69	0	
2/4/2020 23:00	-2.6	22	34	N (4)	69	0	
2/5/2020 0:00	-3.2	25	38	NNW (337)	71	0	
2/5/2020 1:00	-3.5	19	31	NNW (338)	67	0	
2/5/2020 2:00	-3.7	19	34	NW (315)	69	0	
2/5/2020 3:00	-3.9	17	30	NNW (328)	72	0	
2/5/2020 4:00	-3.8	19	30	N (6)	71	0	
2/5/2020 5:00	-3.9	19	27	N (11)	73	0	
2/5/2020 6:00	-4.3	18	29	ENE (57)	72	0	
2/5/2020 7:00	-4.8	14	23	NE (41)	72	0	0
2/5/2020 8:00	-5.1	14	23	ENE (62)	73	0	
2/5/2020 9:00	-5	16	23	E (88)	70	0	
2/5/2020 10:00	-4.8	17	25	ENE (67)	66	0	
2/5/2020 11:00	-4.1	14	21	NE (37)	66	0	
2/5/2020 12:00	-4.1	15	24	ESE (104)	61	0	
2/5/2020 13:00	-3.7	13	25	ENE (74)	60	0	
2/5/2020 14:00	-3.7	8	15	NE (37)	59	0	
2/5/2020 15:00	-3.8	11	17	ENE (66)	61	0	
2/5/2020 16:00	-4	10	16	E (86)	61	0	
2/5/2020 17:00	-4.1	12	18	NE (51)	63	0	
2/5/2020 18:00	-4.2	11	15	NNE (28)	64	0	
2/5/2020 19:00	-4.2	12	15	NE (46)	66	0	
2/5/2020 20:00	-4.4	14	21	ENE (63)	74	0	
2/5/2020 21:00	-4.4	15	22	E (92)	74	0	
2/5/2020 22:00	-4.9	13	20	ENE (72)	84	0	
2/5/2020 23:00	-5.2	12	18	NE (46)	85	0	
2/6/2020 0:00	-5.4	17	24	NE (38)	88	0	
2/6/2020 1:00	-5.6	16	24	NNE (25)	89	0	
2/6/2020 2:00	-5.8	19	26	NE (34)	90	0	
2/6/2020 3:00	-5.7	18	26	NNE (33)	89	0	
2/6/2020 4:00	-5.5	16	24	NNE (24)	89	0	
2/6/2020 5:00	-5.3	17	24	NE (34)	90	0	
2/6/2020 6:00	-5.1	14	23	NNE (28)	97	0	
2/6/2020 7:00	-5.2	15	26	N (3)	100	0	0
2/6/2020 8:00	-5.4	18	28	N (5)	100	0	
2/6/2020 9:00	-5	22	30	N (0)	87	0	
2/6/2020 10:00	-4.6	24	35	NE (44)	82	0	
2/6/2020 11:00	-4.3	22	32	NE (38)	82	0	
2/6/2020 12:00	-3.8	20	30	NE (48)	81	0	
2/6/2020 13:00	-3.5	21	29	NE (35)	76	0	
2/6/2020 14:00	-3.5	23	32	NE (49)	76	0	
2/6/2020 15:00	-3.7	21	30	NNE (33)	76	0	
2/6/2020 16:00	-4.2	18	27	NNE (16)	85	0	
2/6/2020 17:00	-4.6	14	25	N (4)	94	0	
2/6/2020 18:00	-4.6	14	22	NNW (348)	99	0	
2/6/2020 19:00	-4.6	16	24	NNE (24)	100	0	
2/6/2020 20:00	-4.4	18	25	NNE (28)	92	0	
2/6/2020 21:00	-4.5	15	23	N (0)	92	0	
2/6/2020 22:00	-4.6	18	25	N (4)	90	0	
2/6/2020 23:00	-4.5	14	22	N (0)	84	0	
2/7/2020 0:00	-4.3	15	25	N (354)	83	0	
2/7/2020 1:00	-4.5	15	22	NNE (14)	84	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/7/2020 2:00	-4.5	13	20	N (5)	86	0	
2/7/2020 3:00	-4.6	15	24	NE (44)	86	0	
2/7/2020 4:00	-4.7	17	29	N (11)	88	0	
2/7/2020 5:00	-4.8	23	33	NNE (14)	85	0	
2/7/2020 6:00	-4.6	21	31	N (3)	82	0	
2/7/2020 7:00	-4.5	22	34	N (2)	83	0	0
2/7/2020 8:00	-4.2	17	29	NNW (341)	87	0	
2/7/2020 9:00	-3.8	21	31	N (4)	88	0	
2/7/2020 10:00	-3.6	23	34	NNE (19)	87	0	
2/7/2020 11:00	-2.9	24	36	N (349)	85	0	
2/7/2020 12:00	-2.5	23	38	NNW (345)	83	0	
2/7/2020 13:00	-2.4	23	39	NW (322)	84	0	
2/7/2020 14:00	-2.8	30	46	NNW (338)	88	0	
2/7/2020 15:00	-3.1	29	40	NW (319)	87	0	
2/7/2020 16:00	-3.4	28	38	NW (304)	87	0	
2/7/2020 17:00	-3.6	23	33	NW (308)	86	0	
2/7/2020 18:00	-4.2	19	30	NW (322)	80	0	
2/7/2020 19:00	-4.4	15	22	NW (311)	78	0	
2/7/2020 20:00	-5.2	11	16	WNW (288)	79	0	
2/7/2020 21:00	-6.5	9	15	WSW (238)	84	0.2	
2/7/2020 22:00	-6.4	8	12	WNW (294)	84	0	
2/7/2020 23:00	-5.8	8	12	WSW (252)	83	0	
2/8/2020 0:00	-5.5	7	11	WSW (246)	84	0	
2/8/2020 1:00	-5.5	7	10	WNW (295)	87	0	
2/8/2020 2:00	-5.1	11	16	NW (305)	87	0	
2/8/2020 3:00	-5.5	12	16	WNW (299)	84	0	
2/8/2020 4:00	-5.9	11	18	WNW (303)	80	0	
2/8/2020 5:00	-5.7	12	20	WNW (291)	77	0	
2/8/2020 6:00	-6.2	7	11	NW (308)	75	0	
2/8/2020 7:00	-6.2	10	16	NW (319)	74	0	0.2
2/8/2020 8:00	-6.3	7	12	NW (319)	70	0	
2/8/2020 9:00	-5.6	9	15	NW (324)	68	0	
2/8/2020 10:00	-5.1	11	19	NW (309)	66	0	
2/8/2020 11:00	-4.5	6	11	NW (316)	62	0	
2/8/2020 12:00	-3.8	3	10	W (279)	58	0	
2/8/2020 13:00	-3.5	3	9	WNW (289)	61	0	
2/8/2020 14:00	-3.5	3	8	W (260)	62	0	
2/8/2020 15:00	-2.9	1	6	NNE (26)	62	0.4	
2/8/2020 16:00	-3.7	4	7	E (79)	70	0	
2/8/2020 17:00	-4	8	13	SE (135)	71	0	
2/8/2020 18:00	-4.4	7	12	ENE (73)	79	0	
2/8/2020 19:00	-5.4	9	13	E (100)	86	0	
2/8/2020 20:00	-5.3	9	14	ESE (115)	86	0	
2/8/2020 21:00	-5.7	13	19	ESE (115)	85	0	
2/8/2020 22:00	-6.4	12	16	E (98)	83	0	
2/8/2020 23:00	-6.6	11	17	ESE (123)	83	0	
2/9/2020 0:00	-6.2	10	15	SE (129)	85	0	
2/9/2020 1:00	-5.9	15	19	ESE (120)	87	0	
2/9/2020 2:00	-6	16	21	SE (126)	89	0	
2/9/2020 3:00	-5.7	12	20	SE (145)	91	0	
2/9/2020 4:00	-5.8	11	14	ESE (122)	92	0	
2/9/2020 5:00	-5.8	9	12	SE (139)	94	0	
2/9/2020 6:00	-5.4	9	13	SSE (150)	100	0	
2/9/2020 7:00	-5.1	8	13	S (179)	100	0	0.4
2/9/2020 8:00	-3.6	10	13	S (176)	100	0	
2/9/2020 9:00	-2.3	10	17	SSW (204)	100	0	
2/9/2020 10:00	-1.7	12	21	SSW (208)	100	0	
2/9/2020 11:00	-1.2	13	21	SSW (192)	99	0	
2/9/2020 12:00	-0.4	15	27	S (173)	81	0	
2/9/2020 13:00	-0.3	17	28	SSW (196)	78	0	
2/9/2020 14:00	-0.2	17	31	S (176)	76	0	
2/9/2020 15:00	-0.5	22	36	SSE (163)	78	0	
2/9/2020 16:00	-1	22	34	SE (138)	95	0	
2/9/2020 17:00	-1.4	23	34	SSE (148)	100	0	
2/9/2020 18:00	-1.1	28	40	SE (141)	100	0	
2/9/2020 19:00	-0.7	32	41	SE (146)	100	0	
2/9/2020 20:00	-0.2	33	44	SSE (151)	100	0	
2/9/2020 21:00	0.1	30	45	S (179)	100	0	
2/9/2020 22:00	0.3	24	34	SSW (194)	100	0	
2/9/2020 23:00	0.4	17	32	S (189)	100	0.4	
2/10/2020 0:00	0.7	16	26	SW (218)	100	0.4	
2/10/2020 1:00	0.7	14	23	SW (229)	100	0	
2/10/2020 2:00	0.7	13	18	SW (235)	100	0	
2/10/2020 3:00	0.6	10	14	SW (227)	100	0	
2/10/2020 4:00	0.6	11	20	WSW (256)	100	0	
2/10/2020 5:00	0.7	11	17	NW (304)	100	0	
2/10/2020 6:00	0.6	16	26	NW (318)	100	0	
2/10/2020 7:00	0	16	25	NW (321)	100	0.2	1
2/10/2020 8:00	-0.3	15	22	NW (320)	100	0	
2/10/2020 9:00	-0.1	14	20	NW (316)	100	0	
2/10/2020 10:00	0.3	14	21	NW (309)	98	0	
2/10/2020 11:00	0.2	16	22	NW (306)	100	0	
2/10/2020 12:00	0.3	17	26	NW (326)	100	0	
2/10/2020 13:00	0.3	19	27	NW (324)	98	0	
2/10/2020 14:00	0.6	14	24	NNW (328)	94	0	
2/10/2020 15:00	0.6	10	18	N (9)	84	0	
2/10/2020 16:00	0.3	9	17	NNE (18)	74	0	
2/10/2020 17:00	0	6	10	NW (315)	75	0	
2/10/2020 18:00	-0.3	6	10	N (352)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/10/2020 19:00	-0.5	5	10	NW (307)	78	0	
2/10/2020 20:00	-0.7	4	9	NW (315)	77	0	
2/10/2020 21:00	-0.8	3	7	NW (320)	77	0	
2/10/2020 22:00	-0.9	4	9	WSW (256)	75	0	
2/10/2020 23:00	-1	4	8	WNW (300)	80	0	
2/11/2020 0:00	-1.2	5	9	NW (304)	82	0	
2/11/2020 1:00	-1.3	4	9	N (3)	82	0	
2/11/2020 2:00	-1.4	1	4	NW (317)	83	0	
2/11/2020 3:00	-1.4	1	3	SW (231)	86	0	
2/11/2020 4:00	-1.5	2	7	W (267)	88	0	
2/11/2020 5:00	-1.6	7	15	NW (307)	88	0	
2/11/2020 6:00	-2.1	12	18	NW (306)	84	0	
2/11/2020 7:00	-2.6	7	12	W (276)	84	0	0
2/11/2020 8:00	-2.6	8	14	WSW (252)	85	0	
2/11/2020 9:00	-2	9	16	SSW (209)	79	0	
2/11/2020 10:00	-1.1	11	19	SW (219)	78	0	
2/11/2020 11:00	-0.1	14	20	WSW (239)	75	0	
2/11/2020 12:00	0.5	15	24	SW (224)	75	0	
2/11/2020 13:00	0.9	18	29	SW (229)	74	0	
2/11/2020 14:00	1.1	16	25	SW (219)	74	0	
2/11/2020 15:00	1.2	11	20	W (281)	74	0	
2/11/2020 16:00	1	13	23	W (266)	75	0	
2/11/2020 17:00	0.4	14	22	WNW (291)	75	0	
2/11/2020 18:00	0.3	17	41	NW (320)	76	0	
2/11/2020 19:00	-0.7	31	43	NW (317)	74	0	
2/11/2020 20:00	-1.7	27	45	W (273)	75	0	
2/11/2020 21:00	-2.1	23	36	WNW (283)	68	0	
2/11/2020 22:00	-2.3	21	36	W (281)	65	0	
2/11/2020 23:00	-2.6	16	30	W (263)	69	0	
2/12/2020 0:00	-2.8	13	26	WSW (257)	69	0	
2/12/2020 1:00	-3	15	25	WSW (248)	71	0	
2/12/2020 2:00	-3.7	14	22	SW (234)	73	0	
2/12/2020 3:00	-4.1	11	16	SW (227)	77	0	
2/12/2020 4:00	-4	13	21	SW (223)	77	0	
2/12/2020 5:00	-4.5	7	12	SSW (207)	80	0	
2/12/2020 6:00	-4.6	9	13	SSE (168)	80	0	
2/12/2020 7:00	-4.7	10	15	SSE (164)	83	0	0
2/12/2020 8:00	-4.1	11	17	S (177)	83	0	
2/12/2020 9:00	-2.6	15	25	SW (226)	79	0	
2/12/2020 10:00	-1.1	17	30	SW (221)	75	0	
2/12/2020 11:00	-0.3	18	28	S (188)	72	0	
2/12/2020 12:00	-0.1	18	28	S (182)	72	0	
2/12/2020 13:00	0.3	17	27	SSW (193)	71	0	
2/12/2020 14:00	0.3	17	29	S (176)	72	0	
2/12/2020 15:00	0.2	15	25	S (182)	70	0	
2/12/2020 16:00	-0.1	17	26	S (190)	72	0	
2/12/2020 17:00	-0.4	15	25	S (175)	75	0	
2/12/2020 18:00	-0.5	12	23	SSW (211)	76	0	
2/12/2020 19:00	-0.5	12	19	S (176)	78	0	
2/12/2020 20:00	-0.5	14	23	S (177)	78	0	
2/12/2020 21:00	-0.4	10	18	SSW (201)	79	0	
2/12/2020 22:00	-0.7	12	22	SW (234)	87	0	
2/12/2020 23:00	-1.4	10	18	W (268)	100	0	
2/13/2020 0:00	-1.5	7	14	NW (310)	100	0	
2/13/2020 1:00	-1.6	7	11	N (350)	100	0	
2/13/2020 2:00	-1.8	8	13	NNW (328)	100	0	
2/13/2020 3:00	-2.2	7	12	NNW (343)	100	0	
2/13/2020 4:00	-2.2	7	10	NNW (334)	100	0	
2/13/2020 5:00	-2.3	5	8	WNW (299)	100	0	
2/13/2020 6:00	-2.2	5	8	WNW (290)	100	0	
2/13/2020 7:00	-2.4	6	8	WSW (241)	100	0	0
2/13/2020 8:00	-1.9	6	11	WNW (300)	100	0	
2/13/2020 9:00	-1.4	12	20	WNW (285)	100	0.4	
2/13/2020 10:00	-1.4	16	34	NW (326)	100	0.8	
2/13/2020 11:00	-3.1	23	38	NNW (341)	100	0	
2/13/2020 12:00	-4.1	23	37	NNW (328)	91	0	
2/13/2020 13:00	-4.6	22	41	NNW (327)	80	0	
2/13/2020 14:00	-5.3	22	34	NNW (328)	78	0	
2/13/2020 15:00	-6	22	34	N (352)	84	0	
2/13/2020 16:00	-6.8	25	38	NNW (331)	85	0	
2/13/2020 17:00	-7.7	27	38	NW (320)	83	0	
2/13/2020 18:00	-8.2	28	40	NW (320)	79	0	
2/13/2020 19:00	-8.8	27	39	NW (314)	84	0	
2/13/2020 20:00	-9.2	27	38	NW (312)	82	0	
2/13/2020 21:00	-9.3	25	36	NW (308)	76	0	
2/13/2020 22:00	-9.9	24	32	NW (305)	73	0	
2/13/2020 23:00	-10.3	24	35	NW (318)	70	0	
2/14/2020 0:00	-10.8	23	33	WNW (296)	65	0	
2/14/2020 1:00	-12.2	18	34	WNW (296)	69	0	
2/14/2020 2:00	-12.6	16	26	WNW (282)	69	0	
2/14/2020 3:00	-14.3	11	20	WSW (250)	72	0	
2/14/2020 4:00	-14.8	18	26	W (268)	74	0	
2/14/2020 5:00	-14.6	16	25	W (263)	76	0	
2/14/2020 6:00	-15.1	16	23	WSW (246)	75	0	
2/14/2020 7:00	-15.2	15	22	WSW (239)	77	0	1.2
2/14/2020 8:00	-14.5	14	21	WSW (250)	77	0	
2/14/2020 9:00	-13	11	17	WNW (299)	75	0	
2/14/2020 10:00	-10.4	16	25	WNW (293)	75	0	
2/14/2020 11:00	-9.4	18	28	WNW (302)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/14/2020 12:00	-9.2	19	28	WNW (292)	61	0	
2/14/2020 13:00	-8.8	12	20	WNW (292)	57	0	
2/14/2020 14:00	-8.4	8	16	SW (230)	53	0	
2/14/2020 15:00	-8.2	9	15	SW (226)	51	0	
2/14/2020 16:00	-8.4	11	18	S (178)	51	0	
2/14/2020 17:00	-9.1	10	18	SSE (165)	55	0	
2/14/2020 18:00	-10.2	9	15	SSW (195)	59	0	
2/14/2020 19:00	-10.7	11	16	S (170)	62	0	
2/14/2020 20:00	-11.4	13	17	S (172)	64	0	
2/14/2020 21:00	-11.6	12	17	SSE (160)	65	0	
2/14/2020 22:00	-11.6	13	19	S (175)	65	0	
2/14/2020 23:00	-11.2	13	18	S (172)	67	0	
2/15/2020 0:00	-9.5	12	20	SSW (193)	71	0	
2/15/2020 1:00	-8.8	16	27	SSW (210)	70	0	
2/15/2020 2:00	-9.5	13	20	S (187)	70	0	
2/15/2020 3:00	-10.2	12	21	SSW (213)	70	0	
2/15/2020 4:00	-10.5	12	19	SSW (201)	71	0	
2/15/2020 5:00	-10.5	13	18	SSW (206)	69	0	
2/15/2020 6:00	-10.5	12	19	S (186)	71	0	
2/15/2020 7:00	-10.3	17	26	S (180)	72	0	0
2/15/2020 8:00	-9	20	35	SSW (201)	72	0	
2/15/2020 9:00	-7	23	37	SSW (206)	68	0	
2/15/2020 10:00	-6.2	24	40	SSW (202)	64	0	
2/15/2020 11:00	-5.3	26	40	SSW (199)	62	0	
2/15/2020 12:00	-4.8	26	41	SSW (197)	65	0	
2/15/2020 13:00	-5	24	40	SSW (201)	67	0	
2/15/2020 14:00	-4.6	29	44	SSW (193)	67	0	
2/15/2020 15:00	-3.9	33	47	S (185)	67	0	
2/15/2020 16:00	-2.8	29	45	S (171)	60	0	
2/15/2020 17:00	-2.4	23	39	SSE (165)	61	0	
2/15/2020 18:00	-1.7	21	38	SW (219)	62	0	
2/15/2020 19:00	-1.6	23	36	SW (224)	72	0	
2/15/2020 20:00	-1.7	23	38	SSW (209)	79	0	
2/15/2020 21:00	-1.3	26	40	SSW (207)	80	0	
2/15/2020 22:00	-0.9	26	41	SW (226)	78	0	
2/15/2020 23:00	-0.6	22	33	WSW (238)	79	0	
2/16/2020 0:00	-0.2	23	36	WSW (249)	78	0	
2/16/2020 1:00	-0.2	19	31	W (260)	78	0	
2/16/2020 2:00	-0.4	16	28	WSW (258)	79	0	
2/16/2020 3:00	-0.6	10	15	W (267)	81	0	
2/16/2020 4:00	-0.8	10	17	W (279)	80	0	
2/16/2020 5:00	-0.9	12	20	SW (230)	80	0	
2/16/2020 6:00	-0.9	13	19	WSW (247)	79	0	
2/16/2020 7:00	-0.9	12	19	SW (228)	79	0	0
2/16/2020 8:00	-0.8	12	17	SW (226)	78	0	
2/16/2020 9:00	-0.2	13	19	SW (234)	76	0	
2/16/2020 10:00	0.6	13	22	WSW (248)	73	0	
2/16/2020 11:00	1	14	26	SW (226)	69	0	
2/16/2020 12:00	1.5	14	21	WSW (241)	68	0	
2/16/2020 13:00	2	13	22	WSW (252)	68	0	
2/16/2020 14:00	2.7	14	25	WSW (237)	65	0	
2/16/2020 15:00	3	14	23	SW (235)	66	0	
2/16/2020 16:00	2.8	13	21	SW (218)	68	0	
2/16/2020 17:00	1.6	12	19	SW (224)	78	0	
2/16/2020 18:00	0.2	10	16	SSW (205)	83	0	
2/16/2020 19:00	-0.5	8	15	SW (227)	88	0	
2/16/2020 20:00	-1.1	7	11	SW (227)	93	0	
2/16/2020 21:00	-1.8	6	9	SW (234)	100	0	
2/16/2020 22:00	-1.7	10	15	WNW (287)	94	0	
2/16/2020 23:00	-1.8	10	15	W (270)	77	0	
2/17/2020 0:00	-2.2	11	16	NNW (346)	82	0	
2/17/2020 1:00	-3.6	10	18	NNE (29)	85	0	
2/17/2020 2:00	-4.5	7	12	NNE (33)	84	0	
2/17/2020 3:00	-4.9	8	12	NE (43)	84	0	
2/17/2020 4:00	-4.8	9	15	NE (55)	81	0	
2/17/2020 5:00	-5.5	9	13	ENE (68)	83	0	
2/17/2020 6:00	-6.2	11	14	E (94)	83	0	
2/17/2020 7:00	-6.5	10	14	E (82)	82	0	0
2/17/2020 8:00	-5	10	15	E (99)	78	0	
2/17/2020 9:00	-3.7	13	18	ENE (66)	74	0	
2/17/2020 10:00	-2.7	11	19	ENE (74)	68	0	
2/17/2020 11:00	-1.9	10	19	ENE (70)	63	0	
2/17/2020 12:00	-1.2	10	18	E (83)	63	0	
2/17/2020 13:00	-0.3	12	19	ESE (106)	60	0	
2/17/2020 14:00	0.2	15	23	E (98)	60	0	
2/17/2020 15:00	0.3	17	24	ESE (109)	64	0	
2/17/2020 16:00	0	17	25	ESE (106)	67	0	
2/17/2020 17:00	-0.2	14	21	ESE (114)	70	0	
2/17/2020 18:00	-0.3	16	27	E (101)	71	0	
2/17/2020 19:00	-0.4	20	27	E (83)	70	0	
2/17/2020 20:00	-0.5	19	27	ESE (116)	68	0	
2/17/2020 21:00	-0.6	18	27	ESE (103)	77	0	
2/17/2020 22:00	-1.8	24	36	ESE (107)	93	0	
2/17/2020 23:00	-2	26	36	ESE (118)	100	0	
2/18/2020 0:00	-1.6	24	35	E (101)	100	0	
2/18/2020 1:00	-0.8	25	34	ESE (110)	100	0	
2/18/2020 2:00	-0.5	28	38	SE (124)	100	0	
2/18/2020 3:00	-0.1	28	40	ESE (122)	100	0	
2/18/2020 4:00	0.2	29	42	ESE (107)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/18/2020 5:00	1	28	40	SE (142)	100	0.2	
2/18/2020 6:00	1.5	26	35	SE (140)	100	0.2	
2/18/2020 7:00	2.1	17	30	S (178)	100	0	0.4
2/18/2020 8:00	2.7	18	33	SW (220)	100	0	
2/18/2020 9:00	2.6	23	38	WSW (249)	100	0	
2/18/2020 10:00	3.1	19	29	SW (216)	100	0	
2/18/2020 11:00	3.3	19	29	WSW (238)	100	0	
2/18/2020 12:00	3.8	25	43	WSW (239)	100	0	
2/18/2020 13:00	3.2	26	44	W (268)	75	0	
2/18/2020 14:00	2.9	26	41	W (273)	75	0	
2/18/2020 15:00	2.5	24	41	W (259)	73	0	
2/18/2020 16:00	2.6	24	41	W (280)	69	0	
2/18/2020 17:00	1.8	24	36	NW (307)	68	0	
2/18/2020 18:00	1	21	36	W (280)	69	0	
2/18/2020 19:00	0.3	12	20	NW (306)	75	0	
2/18/2020 20:00	-0.3	12	22	WNW (293)	77	0	
2/18/2020 21:00	-0.8	11	20	SW (235)	78	0	
2/18/2020 22:00	-1.6	10	15	WSW (258)	80	0	
2/18/2020 23:00	-1.5	21	39	WNW (287)	80	0	
2/19/2020 0:00	-1.6	21	33	WNW (292)	71	0	
2/19/2020 1:00	-1.9	19	32	W (274)	73	0	
2/19/2020 2:00	-2.7	18	29	WSW (257)	70	0	
2/19/2020 3:00	-3.1	15	28	W (278)	70	0	
2/19/2020 4:00	-3.4	20	34	WNW (284)	70	0	
2/19/2020 5:00	-3.7	26	37	WNW (302)	75	0	
2/19/2020 6:00	-4.4	30	43	NW (305)	74	0	
2/19/2020 7:00	-5.6	28	42	W (280)	62	0	0
2/19/2020 8:00	-5.9	25	40	NW (306)	60	0	
2/19/2020 9:00	-5.6	28	41	WNW (297)	60	0	
2/19/2020 10:00	-5.2	23	33	NW (308)	58	0	
2/19/2020 11:00	-4.9	20	28	W (277)	58	0	
2/19/2020 12:00	-4.6	19	30	WSW (256)	57	0	
2/19/2020 13:00	-4.7	21	31	WNW (298)	57	0	
2/19/2020 14:00	-4.2	19	31	NW (316)	55	0	
2/19/2020 15:00	-3.8	17	27	NW (304)	53	0	
2/19/2020 16:00	-3.7	16	25	WNW (303)	52	0	
2/19/2020 17:00	-3.9	15	24	NW (313)	56	0	
2/19/2020 18:00	-4.6	11	18	WNW (297)	62	0	
2/19/2020 19:00	-5	11	16	NW (304)	62	0	
2/19/2020 20:00	-5.7	6	12	WSW (239)	69	0	
2/19/2020 21:00	-6.2	6	8	WSW (243)	71	0	
2/19/2020 22:00	-6.6	8	13	WNW (283)	71	0	
2/19/2020 23:00	-6	15	26	WNW (295)	67	0	
2/20/2020 0:00	-6.5	15	21	WNW (291)	60	0	
2/20/2020 1:00	-6.7	19	33	WNW (299)	65	0	
2/20/2020 2:00	-7.3	22	32	NW (313)	65	0	
2/20/2020 3:00	-8.1	15	26	WNW (283)	65	0	
2/20/2020 4:00	-8.4	11	18	NW (308)	70	0	
2/20/2020 5:00	-8.2	14	25	WNW (298)	70	0	
2/20/2020 6:00	-8.2	16	29	WNW (303)	70	0	
2/20/2020 7:00	-7.9	20	31	NW (325)	71	0	0
2/20/2020 8:00	-7.8	22	33	WNW (297)	68	0	
2/20/2020 9:00	-7.8	24	33	NW (314)	64	0	
2/20/2020 10:00	-7.7	23	33	NW (324)	61	0	
2/20/2020 11:00	-7.7	24	35	NW (311)	58	0	
2/20/2020 12:00	-7.3	22	31	NW (325)	56	0	
2/20/2020 13:00	-7.2	23	35	NW (317)	55	0	
2/20/2020 14:00	-7.1	21	32	NW (310)	55	0	
2/20/2020 15:00	-7.2	19	28	WNW (295)	54	0	
2/20/2020 16:00	-7.1	17	29	NW (316)	56	0	
2/20/2020 17:00	-7.2	16	25	WNW (300)	57	0	
2/20/2020 18:00	-7.3	15	22	NW (309)	54	0	
2/20/2020 19:00	-7.4	13	21	WNW (287)	56	0	
2/20/2020 20:00	-8	9	17	WNW (293)	61	0	
2/20/2020 21:00	-9	5	8	SW (226)	65	0	
2/20/2020 22:00	-9.4	7	10	SW (227)	69	0	
2/20/2020 23:00	-10	8	10	SW (218)	72	0	
2/21/2020 0:00	-10	8	12	WSW (240)	72	0	
2/21/2020 1:00	-10.2	11	14	WSW (244)	71	0	
2/21/2020 2:00	-9.9	12	20	SW (228)	70	0	
2/21/2020 3:00	-10	12	17	WSW (250)	70	0	
2/21/2020 4:00	-10.2	13	18	WSW (239)	71	0	
2/21/2020 5:00	-10.6	12	16	SW (235)	74	0	
2/21/2020 6:00	-10.6	13	20	SW (228)	75	0	
2/21/2020 7:00	-10.3	13	18	SSW (207)	76	0	0
2/21/2020 8:00	-8.8	15	24	SW (235)	76	0	
2/21/2020 9:00	-6.9	19	29	WSW (249)	72	0	
2/21/2020 10:00	-5	20	30	SSW (210)	64	0	
2/21/2020 11:00	-3.3	21	30	SW (226)	54	0	
2/21/2020 12:00	-2	23	36	WSW (239)	48	0	
2/21/2020 13:00	-1	23	34	SW (231)	47	0	
2/21/2020 14:00	-0.3	24	35	SSW (211)	45	0	
2/21/2020 15:00	-0.1	23	38	SW (217)	46	0	
2/21/2020 16:00	-0.4	24	39	SW (214)	50	0	
2/21/2020 17:00	-0.8	24	40	SSW (210)	51	0	
2/21/2020 18:00	-1.5	21	32	S (183)	56	0	
2/21/2020 19:00	-2	21	32	SSW (204)	56	0	
2/21/2020 20:00	-2.2	23	33	SSW (205)	57	0	
2/21/2020 21:00	-2.5	25	37	SW (218)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/21/2020 22:00	-2.8	25	37	SW (214)	62	0	
2/21/2020 23:00	-3	25	39	SW (227)	61	0	
2/22/2020 0:00	-3.2	23	33	SW (231)	62	0	
2/22/2020 1:00	-3.5	21	27	WSW (246)	61	0	
2/22/2020 2:00	-3.9	16	24	SW (225)	61	0	
2/22/2020 3:00	-4.3	16	24	SW (216)	64	0	
2/22/2020 4:00	-4.6	13	20	SSW (193)	65	0	
2/22/2020 5:00	-4.5	15	21	SSW (213)	67	0	
2/22/2020 6:00	-4.9	16	24	S (179)	72	0	
2/22/2020 7:00	-4.8	16	24	SSW (200)	72	0	0
2/22/2020 8:00	-3.6	16	24	SW (217)	70	0	
2/22/2020 9:00	-1.6	20	32	SW (229)	65	0	
2/22/2020 10:00	0.2	21	32	SW (226)	57	0	
2/22/2020 11:00	1.4	19	28	SW (227)	53	0	
2/22/2020 12:00	2.6	19	29	SSW (202)	51	0	
2/22/2020 13:00	3.7	20	31	SSW (204)	51	0	
2/22/2020 14:00	4.8	25	37	SW (233)	48	0	
2/22/2020 15:00	5.1	24	37	SW (218)	49	0	
2/22/2020 16:00	4.9	23	38	WSW (239)	50	0	
2/22/2020 17:00	4.4	18	32	S (191)	55	0	
2/22/2020 18:00	3.2	17	23	S (178)	61	0	
2/22/2020 19:00	2.6	17	26	SSW (196)	64	0	
2/22/2020 20:00	1.8	16	23	SSW (198)	65	0	
2/22/2020 21:00	1.7	17	26	SSW (211)	65	0	
2/22/2020 22:00	1.5	16	26	SW (233)	65	0	
2/22/2020 23:00	1.2	17	25	SW (225)	65	0	
2/23/2020 0:00	0.9	16	25	SW (217)	65	0	
2/23/2020 1:00	0.7	14	26	SSW (210)	65	0	
2/23/2020 2:00	0	14	21	SSW (210)	66	0	
2/23/2020 3:00	0	12	20	S (179)	65	0	
2/23/2020 4:00	0	12	20	S (191)	66	0	
2/23/2020 5:00	-0.6	13	19	S (169)	67	0	
2/23/2020 6:00	-0.8	14	22	SSE (168)	67	0	
2/23/2020 7:00	-0.6	13	22	SSW (205)	66	0	0
2/23/2020 8:00	0.5	17	31	SSW (203)	64	0	
2/23/2020 9:00	2.1	21	31	S (187)	59	0	
2/23/2020 10:00	3.6	20	31	S (181)	54	0	
2/23/2020 11:00	5.3	20	31	SW (220)	50	0	
2/23/2020 12:00	7	21	34	S (170)	46	0	
2/23/2020 13:00	8.2	22	34	S (174)	43	0	
2/23/2020 14:00	8.8	23	38	S (173)	43	0	
2/23/2020 15:00	8.7	21	39	SSW (192)	45	0	
2/23/2020 16:00	8.4	20	31	SSW (193)	44	0	
2/23/2020 17:00	7.1	18	33	S (186)	50	0	
2/23/2020 18:00	5.3	17	26	SW (219)	56	0	
2/23/2020 19:00	4.3	15	22	SSW (209)	59	0	
2/23/2020 20:00	3.6	15	22	SSW (209)	63	0	
2/23/2020 21:00	3.2	14	23	S (176)	64	0	
2/23/2020 22:00	3.7	16	26	SW (225)	67	0	
2/23/2020 23:00	3.1	15	23	S (186)	70	0	
2/24/2020 0:00	2.5	15	23	SW (214)	74	0	
2/24/2020 1:00	1.8	14	21	SSW (211)	77	0	
2/24/2020 2:00	1.5	13	21	SW (215)	79	0	
2/24/2020 3:00	1.4	13	20	SW (222)	81	0	
2/24/2020 4:00	0.7	12	17	S (169)	85	0	
2/24/2020 5:00	0.3	9	15	SSW (212)	86	0	
2/24/2020 6:00	-0.2	7	14	SW (232)	91	0	
2/24/2020 7:00	-0.2	6	9	S (181)	92	0	0
2/24/2020 8:00	0.9	7	12	SW (223)	89	0	
2/24/2020 9:00	2.5	6	11	WNW (291)	84	0	
2/24/2020 10:00	4.1	6	13	WNW (303)	80	0	
2/24/2020 11:00	5.1	4	9	SW (225)	72	0	
2/24/2020 12:00	5.5	3	7	NE (40)	65	0	
2/24/2020 13:00	6.1	3	8	NNW (338)	64	0	
2/24/2020 14:00	6.9	5	12	NNE (18)	62	0	
2/24/2020 15:00	6.9	5	11	NNE (15)	61	0	
2/24/2020 16:00	6.5	7	14	NNE (12)	68	0	
2/24/2020 17:00	4.8	7	13	NNE (21)	78	0	
2/24/2020 18:00	2.8	7	12	NE (34)	80	0	
2/24/2020 19:00	2	9	13	N (4)	84	0	
2/24/2020 20:00	2	6	12	NE (49)	84	0	
2/24/2020 21:00	1.7	8	12	N (6)	85	0	
2/24/2020 22:00	1.8	9	16	NNE (26)	84	0	
2/24/2020 23:00	2.5	14	21	NNE (32)	76	0	
2/25/2020 0:00	2.5	13	20	NE (49)	76	0	
2/25/2020 1:00	2	11	15	NE (39)	80	0	
2/25/2020 2:00	1.6	9	16	ENE (62)	89	0.4	
2/25/2020 3:00	0.5	6	11	NNE (20)	100	0.2	
2/25/2020 4:00	0.3	10	17	NE (44)	100	0.4	
2/25/2020 5:00	0.5	14	20	NE (36)	100	0.2	
2/25/2020 6:00	0.5	16	21	ENE (59)	100	0.2	
2/25/2020 7:00	0.6	17	22	NNE (31)	100	0	1.4
2/25/2020 8:00	0.7	15	24	NE (55)	100	0.2	
2/25/2020 9:00	1.3	16	23	NE (54)	100	0	
2/25/2020 10:00	2.1	14	23	NNE (23)	100	0	
2/25/2020 11:00	2.2	15	24	N (10)	99	0	
2/25/2020 12:00	2.4	15	25	NNE (27)	100	0	
2/25/2020 13:00	2.6	18	29	NNE (29)	99	0	
2/25/2020 14:00	2.8	25	34	NNE (29)	94	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/25/2020 15:00	2.9	23	32	NE (45)	81	0	
2/25/2020 16:00	2.9	21	32	NNE (28)	78	0	
2/25/2020 17:00	2.3	16	24	N (0)	83	0	
2/25/2020 18:00	1.7	15	22	N (4)	83	0	
2/25/2020 19:00	1.4	20	28	N (349)	79	0	
2/25/2020 20:00	0.9	19	27	N (0)	79	0	
2/25/2020 21:00	0.6	16	27	NE (41)	77	0	
2/25/2020 22:00	0.4	14	21	NNE (20)	78	0	
2/25/2020 23:00	0.3	15	25	N (0)	78	0	
2/26/2020 0:00	0.2	17	25	NNE (27)	78	0	
2/26/2020 1:00	-0.2	14	21	N (11)	88	0	
2/26/2020 2:00	-0.8	13	19	N (7)	100	0	
2/26/2020 3:00	-1	16	24	NNE (18)	100	0	
2/26/2020 4:00	-0.9	17	27	NNE (24)	100	0	
2/26/2020 5:00	-0.9	18	29	NNE (27)	100	0	
2/26/2020 6:00	-1	15	24	NNE (14)	100	0	
2/26/2020 7:00	-1.3	17	23	N (1)	100	0	0.2
2/26/2020 8:00	-1.5	17	24	NE (42)	100	0	
2/26/2020 9:00	-1.5	15	23	N (6)	100	0	
2/26/2020 10:00	-1.8	19	26	N (11)	100	0	
2/26/2020 11:00	-1.5	19	27	N (9)	100	1.2	
2/26/2020 12:00	-1.4	19	29	NNE (26)	96	0	
2/26/2020 13:00	-1.8	18	30	N (0)	97	0	
2/26/2020 14:00	-2.4	21	29	N (3)	100	0	
2/26/2020 15:00	-2.8	16	24	N (7)	100	0	
2/26/2020 16:00	-3	15	25	NW (315)	100	0	
2/26/2020 17:00	-3.3	16	27	NNW (348)	100	0	
2/26/2020 18:00	-3.6	15	25	N (5)	100	0	
2/26/2020 19:00	-3.7	17	31	NNW (340)	100	0	
2/26/2020 20:00	-3.8	17	28	N (352)	100	0	
2/26/2020 21:00	-3.9	16	28	N (6)	100	0	
2/26/2020 22:00	-3.7	16	28	NW (325)	100	0	
2/26/2020 23:00	-3.6	27	38	NNW (334)	100	0	
2/27/2020 0:00	-4	30	41	NW (311)	100	0	
2/27/2020 1:00	-4.3	31	48	WNW (293)	100	0	
2/27/2020 2:00	-5.7	36	52	WNW (298)	100	0	
2/27/2020 3:00	-6.2	36	49	WNW (290)	95	0	
2/27/2020 4:00	-6.4	31	43	W (281)	83	0	
2/27/2020 5:00	-7.1	31	46	W (273)	74	0	
2/27/2020 6:00	-7.4	32	47	WNW (287)	74	0	
2/27/2020 7:00	-6.9	31	44	W (276)	73	0	1.2
2/27/2020 8:00	-6	27	42	WNW (285)	68	0	
2/27/2020 9:00	-5.6	29	46	W (270)	69	0	
2/27/2020 10:00	-5.3	30	52	WSW (254)	67	0	
2/27/2020 11:00	-5	36	58	W (278)	66	0	
2/27/2020 12:00	-5.1	32	51	W (262)	72	0	
2/27/2020 13:00	-5	33	49	WSW (250)	63	0	
2/27/2020 14:00	-5.1	32	49	WNW (291)	61	0	
2/27/2020 15:00	-5.3	31	50	WSW (252)	64	0	
2/27/2020 16:00	-5.7	28	48	WNW (297)	74	0	
2/27/2020 17:00	-6.1	29	45	WSW (258)	66	0	
2/27/2020 18:00	-6.4	32	51	W (272)	63	0	
2/27/2020 19:00	-7	28	44	W (277)	63	0	
2/27/2020 20:00	-7.1	27	40	W (274)	67	0	
2/27/2020 21:00	-7.3	27	39	WSW (248)	68	0	
2/27/2020 22:00	-7.3	26	40	W (263)	68	0	
2/27/2020 23:00	-7.9	25	37	WNW (284)	70	0	
2/28/2020 0:00	-8.6	23	32	W (263)	69	0	
2/28/2020 1:00	-8.8	22	33	WNW (282)	69	0	
2/28/2020 2:00	-8.8	20	30	WNW (288)	68	0	
2/28/2020 3:00	-8.8	22	31	WSW (250)	66	0	
2/28/2020 4:00	-8.6	22	32	W (267)	63	0	
2/28/2020 5:00	-8.6	19	30	WSW (256)	65	0	
2/28/2020 6:00	-8.1	21	37	WSW (249)	66	0	
2/28/2020 7:00	-7.9	25	40	W (260)	64	0	0
2/28/2020 8:00	-7.7	27	45	WSW (257)	63	0	
2/28/2020 9:00	-7.4	28	42	W (259)	64	0	
2/28/2020 10:00	-7	30	43	WSW (255)	62	0	
2/28/2020 11:00	-6.2	30	46	W (268)	61	0	
2/28/2020 12:00	-5.4	30	44	WSW (254)	59	0.2	
2/28/2020 13:00	-4.8	30	44	WSW (253)	58	0	
2/28/2020 14:00	-4.7	29	41	W (266)	58	0	
2/28/2020 15:00	-4.6	28	45	NW (308)	60	0	
2/28/2020 16:00	-5	27	45	W (265)	70	0	
2/28/2020 17:00	-5	22	34	W (270)	72	0	
2/28/2020 18:00	-5.8	20	34	W (266)	86	0	
2/28/2020 19:00	-5.7	22	34	W (260)	86	0	
2/28/2020 20:00	-5.5	27	42	W (270)	72	0	
2/28/2020 21:00	-5.9	29	43	W (278)	69	0	
2/28/2020 22:00	-6.3	27	40	WNW (290)	76	0	
2/28/2020 23:00	-6.4	25	38	WNW (286)	78	0	
2/29/2020 0:00	-6.6	29	52	NW (322)	89	0	
2/29/2020 1:00	-6.7	30	54	WNW (296)	89	0	
2/29/2020 2:00	-6.4	26	43	WNW (298)	73	0	
2/29/2020 3:00	-6.5	26	40	WNW (297)	79	0	
2/29/2020 4:00	-6.8	25	39	WNW (301)	71	0	
2/29/2020 5:00	-6.8	27	39	WNW (301)	74	0	
2/29/2020 6:00	-6.7	26	37	NW (308)	72	0	
2/29/2020 7:00	-6.7	26	37	WNW (300)	70	0	0.2

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
2/29/2020 8:00	-6.3	30	46	NNW (341)	66	0	
2/29/2020 9:00	-5.9	33	45	NW (317)	64	0	
2/29/2020 10:00	-5.5	31	44	WNW (293)	62	0	
2/29/2020 11:00	-5.3	29	37	WNW (292)	64	0	
2/29/2020 12:00	-4.7	27	39	WNW (297)	63	0	
2/29/2020 13:00	-4.3	27	40	WNW (291)	58	0	
2/29/2020 14:00	-3.4	22	33	NW (306)	57	0	
2/29/2020 15:00	-3	18	33	WNW (288)	55	0	
2/29/2020 16:00	-2.6	14	23	WNW (294)	54	0	
2/29/2020 17:00	-2.6	7	16	WSW (255)	56	0	
2/29/2020 18:00	-4	5	7	SSW (202)	59	0	
2/29/2020 19:00	-4.5	8	11	SSW (211)	61	0	
2/29/2020 20:00	-4.9	8	12	S (180)	59	0	
2/29/2020 21:00	-5.5	10	14	SSW (196)	61	0	
2/29/2020 22:00	-5.4	10	16	SW (214)	65	0	
2/29/2020 23:00	-6.4	10	15	SSW (211)	70	0	
3/1/2020 0:00	-6.8	10	13	SW (220)	71	0	
3/1/2020 1:00	-6.8	10	14	SW (229)	69	0	
3/1/2020 2:00	-7	9	12	SSW (210)	70	0	
3/1/2020 3:00	-7	7	10	WSW (240)	72	0	
3/1/2020 4:00	-6.6	7	10	S (175)	70	0	
3/1/2020 5:00	-6.1	9	13	SSW (213)	67	0	
3/1/2020 6:00	-6.8	10	16	SSW (204)	79	0	
3/1/2020 7:00	-6.3	11	17	S (171)	79	0	0
3/1/2020 8:00	-5.4	14	19	S (171)	71	0	
3/1/2020 9:00	-3.2	16	25	S (174)	65	0	
3/1/2020 10:00	-1.1	18	26	S (176)	63	0	
3/1/2020 11:00	0.7	19	31	SSE (167)	60	0	
3/1/2020 12:00	1.6	23	30	SSE (166)	60	0	
3/1/2020 13:00	2	24	34	SSE (165)	57	0	
3/1/2020 14:00	2.1	26	35	SSE (157)	60	0	
3/1/2020 15:00	1.9	32	42	SSE (151)	61	0	
3/1/2020 16:00	1.8	31	44	SE (139)	60	0	
3/1/2020 17:00	1.5	30	42	SE (136)	63	0	
3/1/2020 18:00	1.4	28	34	SSE (147)	65	0	
3/1/2020 19:00	2.3	26	34	SSE (147)	64	0	
3/1/2020 20:00	3.5	23	32	SSE (166)	59	0	
3/1/2020 21:00	4.3	22	32	SSW (212)	58	0	
3/1/2020 22:00	4.6	16	26	SSE (164)	56	0	
3/1/2020 23:00	4.7	15	25	S (191)	58	0	
3/2/2020 0:00	4.5	12	19	S (184)	61	0	
3/2/2020 1:00	4.4	16	24	SSW (209)	65	0	
3/2/2020 2:00	4.2	18	26	S (186)	70	0	
3/2/2020 3:00	4.4	18	25	SSW (197)	73	0	
3/2/2020 4:00	4.7	16	25	WSW (251)	76	0	
3/2/2020 5:00	5.2	17	28	S (186)	78	0	
3/2/2020 6:00	5.3	14	23	SW (216)	84	0	
3/2/2020 7:00	5.7	19	32	SW (225)	100	0.2	0.2
3/2/2020 8:00	5.9	14	25	SSW (205)	100	0	
3/2/2020 9:00	5.5	15	25	SSW (198)	100	0.2	
3/2/2020 10:00	5.5	16	25	SSW (209)	100	0.2	
3/2/2020 11:00	5.3	14	24	SW (222)	100	0.2	
3/2/2020 12:00	5.5	13	24	WNW (290)	100	0	
3/2/2020 13:00	5.2	7	15	W (260)	100	0	
3/2/2020 14:00	5.3	4	8	SW (222)	100	0	
3/2/2020 15:00	6.2	8	16	SW (230)	100	0	
3/2/2020 16:00	6.9	9	15	SSW (193)	100	0	
3/2/2020 17:00	7	7	13	SSW (210)	100	0	
3/2/2020 18:00	6.2	6	12	SW (225)	100	0	
3/2/2020 19:00	4.4	3	5	SSW (212)	100	0	
3/2/2020 20:00	2	2	5	WSW (240)	100	0	
3/2/2020 21:00	1.5	2	5	ESE (122)	100	0	
3/2/2020 22:00	1.6	3	7	SE (128)	100	0	
3/2/2020 23:00	2.8	5	8	S (181)	100	0	
3/3/2020 0:00	2.8	7	12	SSW (209)	100	0	
3/3/2020 1:00	2.7	6	10	W (264)	100	0	
3/3/2020 2:00	2.5	4	8	NNW (328)	100	0	
3/3/2020 3:00	1.8	2	6	SW (232)	100	0	
3/3/2020 4:00	-0.1	3	6	E (88)	100	0	
3/3/2020 5:00	0	6	8	SE (130)	100	0	
3/3/2020 6:00	0.1	6	8	ENE (58)	100	0	
3/3/2020 7:00	-0.3	6	8	E (88)	100	0	0.6
3/3/2020 8:00	0.7	5	8	E (88)	100	0	
3/3/2020 9:00	3	8	12	E (88)	100	0	
3/3/2020 10:00	2.6	5	10	SE (142)	100	0	
3/3/2020 11:00	2.8	2	5	NW (324)	100	0.2	
3/3/2020 12:00	3.4	2	8	W (271)	100	0.2	
3/3/2020 13:00	4	3	7	NE (45)	100	0	
3/3/2020 14:00	4.8	5	10	WSW (239)	100	0	
3/3/2020 15:00	5.3	11	17	SW (236)	100	0	
3/3/2020 16:00	6.2	13	22	SW (217)	89	0	
3/3/2020 17:00	5.4	11	24	WNW (295)	93	0	
3/3/2020 18:00	4.5	15	23	W (276)	73	0	
3/3/2020 19:00	3.5	14	22	WNW (292)	79	0	
3/3/2020 20:00	3.2	18	28	WNW (293)	81	0	
3/3/2020 21:00	3.2	21	37	W (264)	80	0	
3/3/2020 22:00	3.1	24	39	W (268)	78	0	
3/3/2020 23:00	2.4	20	35	WNW (289)	75	0	
3/4/2020 0:00	1.6	15	23	W (270)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/4/2020 1:00	1.5	11	18	SW (223)	82	0	
3/4/2020 2:00	0.7	12	17	WSW (239)	82	0	
3/4/2020 3:00	0.4	12	18	SW (214)	84	0	
3/4/2020 4:00	0.4	16	22	SW (228)	85	0	
3/4/2020 5:00	0.3	16	23	SW (225)	84	0	
3/4/2020 6:00	-0.2	15	22	SSW (209)	85	0	
3/4/2020 7:00	0.3	17	23	SW (221)	83	0	0.4
3/4/2020 8:00	0.7	17	25	SW (233)	82	0	
3/4/2020 9:00	1	17	25	SW (235)	82	0	
3/4/2020 10:00	1.2	15	22	SW (234)	82	0	
3/4/2020 11:00	2	14	19	SW (230)	81	0	
3/4/2020 12:00	3.6	16	27	W (264)	77	0	
3/4/2020 13:00	4.1	15	26	W (259)	72	0	
3/4/2020 14:00	4.6	23	40	NW (317)	63	0	
3/4/2020 15:00	4.3	27	40	NNW (338)	67	0	
3/4/2020 16:00	3.4	20	32	NW (306)	69	0	
3/4/2020 17:00	2.4	17	29	N (352)	67	0	
3/4/2020 18:00	1	12	21	N (5)	71	0	
3/4/2020 19:00	0.1	9	15	NNW (338)	74	0	
3/4/2020 20:00	-0.3	10	16	NW (314)	76	0	
3/4/2020 21:00	-0.6	11	15	NW (319)	74	0	
3/4/2020 22:00	-0.9	12	15	NW (321)	73	0	
3/4/2020 23:00	-1.1	12	16	NW (304)	74	0	
3/5/2020 0:00	-1.4	11	15	NW (305)	76	0	
3/5/2020 1:00	-1.9	10	14	NW (313)	79	0	
3/5/2020 2:00	-2.2	7	12	WNW (290)	79	0	
3/5/2020 3:00	-3.3	4	7	SW (233)	86	0	
3/5/2020 4:00	-3.1	7	10	SSW (197)	81	0	
3/5/2020 5:00	-3.5	9	11	SSE (159)	84	0	
3/5/2020 6:00	-3.6	9	12	SSE (158)	84	0	
3/5/2020 7:00	-3.3	11	15	S (175)	84	0	0
3/5/2020 8:00	-1.3	16	23	SSE (155)	78	0	
3/5/2020 9:00	0.3	22	33	SSE (167)	71	0	
3/5/2020 10:00	1.5	23	32	SSE (165)	65	0	
3/5/2020 11:00	2.6	20	32	SSE (164)	62	0	
3/5/2020 12:00	3.5	15	29	SSW (196)	56	0	
3/5/2020 13:00	4.3	14	29	SSE (152)	56	0	
3/5/2020 14:00	5	18	31	SE (144)	54	0	
3/5/2020 15:00	5.4	17	26	S (169)	52	0	
3/5/2020 16:00	5.1	20	26	SE (143)	56	0	
3/5/2020 17:00	3.8	20	26	SE (135)	67	0	
3/5/2020 18:00	2.4	19	24	SE (144)	70	0	
3/5/2020 19:00	1.7	18	22	SE (140)	70	0	
3/5/2020 20:00	1.2	20	25	SE (127)	71	0	
3/5/2020 21:00	1.3	21	25	SE (132)	70	0	
3/5/2020 22:00	1.3	11	25	E (101)	75	0	
3/5/2020 23:00	1	12	19	SE (140)	78	0	
3/6/2020 0:00	0.6	9	13	ESE (112)	94	0	
3/6/2020 1:00	0.1	6	12	E (84)	100	0	
3/6/2020 2:00	-0.2	5	9	SE (129)	100	0	
3/6/2020 3:00	-0.5	3	6	ESE (115)	100	0	
3/6/2020 4:00	-0.2	3	5	SSW (208)	100	0	
3/6/2020 5:00	-0.3	4	8	SW (233)	100	0	
3/6/2020 6:00	-0.5	6	10	WSW (250)	100	0	
3/6/2020 7:00	-0.9	5	8	W (269)	100	0	0
3/6/2020 8:00	0	9	17	NW (304)	100	0.4	
3/6/2020 9:00	0.8	15	22	N (2)	100	0.2	
3/6/2020 10:00	1.2	15	26	NW (313)	100	0	
3/6/2020 11:00	0.9	18	31	N (352)	100	0	
3/6/2020 12:00	0.7	20	31	N (354)	100	0	
3/6/2020 13:00	0.2	22	37	NNW (344)	100	0	
3/6/2020 14:00	-0.2	27	49	NNW (348)	100	0.2	
3/6/2020 15:00	-0.7	30	48	N (351)	100	0	
3/6/2020 16:00	-1.2	31	51	N (1)	94	0	
3/6/2020 17:00	-1.4	30	51	NNW (333)	86	0	
3/6/2020 18:00	-1.6	28	53	NNW (341)	83	0	
3/6/2020 19:00	-1.8	31	45	NNW (337)	82	0	
3/6/2020 20:00	-1.9	29	45	N (352)	77	0	
3/6/2020 21:00	-1.9	25	41	NW (304)	75	0	
3/6/2020 22:00	-2.1	25	39	NNE (31)	74	0	
3/6/2020 23:00	-2.2	23	36	N (354)	76	0	
3/7/2020 0:00	-2.5	22	34	NNE (22)	77	0	
3/7/2020 1:00	-2.9	20	33	NNE (25)	77	0	
3/7/2020 2:00	-3.4	13	22	NE (45)	74	0	
3/7/2020 3:00	-3.6	14	22	NNE (18)	69	0	
3/7/2020 4:00	-4.1	9	17	NE (40)	69	0	
3/7/2020 5:00	-4.8	6	11	NNE (24)	73	0	
3/7/2020 6:00	-5.7	1	5	WNW (290)	82	0	
3/7/2020 7:00	-5.1	2	3	SW (234)	81	0	0.8
3/7/2020 8:00	-3.6	2	6	W (270)	70	0	
3/7/2020 9:00	-2.5	6	16	NW (317)	67	0	
3/7/2020 10:00	-1.5	9	17	WSW (252)	70	0	
3/7/2020 11:00	-0.5	8	15	N (0)	70	0	
3/7/2020 12:00	0.8	8	18	SW (235)	67	0	
3/7/2020 13:00	2	11	24	SW (226)	63	0	
3/7/2020 14:00	3	15	24	S (185)	61	0	
3/7/2020 15:00	3.2	14	24	SSW (200)	59	0	
3/7/2020 16:00	3.5	16	28	SSW (203)	55	0	
3/7/2020 17:00	3.1	15	25	SSW (200)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/7/2020 18:00	1.9	12	20	SSW (212)	67	0	
3/7/2020 19:00	0.3	16	22	S (174)	73	0	
3/7/2020 20:00	-0.6	17	24	S (177)	76	0	
3/7/2020 21:00	-0.5	15	24	S (181)	74	0	
3/7/2020 22:00	-0.2	14	24	SSW (202)	75	0	
3/7/2020 23:00	0.2	15	28	SSW (203)	76	0	
3/8/2020 0:00	1.2	17	31	SSW (207)	72	0	
3/8/2020 1:00	1.6	15	25	SSW (209)	70	0	
3/8/2020 2:00	2	12	22	SSW (210)	69	0	
3/8/2020 3:00	1.7	9	16	SW (222)	70	0	
3/8/2020 4:00	0.7	5	9	S (171)	78	0	
3/8/2020 5:00	0.1	11	15	S (181)	77	0	
3/8/2020 6:00	0.4	13	20	SSW (209)	76	0	
3/8/2020 7:00	No Meteorological Data Recorded for Time Interval[1]						
3/8/2020 8:00	1.5	14	23	SSW (195)	69	0	0
3/8/2020 9:00	2.4	16	29	S (181)	65	0	
3/8/2020 10:00	3.8	16	26	SW (224)	63	0	
3/8/2020 11:00	5.6	18	29	SSE (168)	58	0	
3/8/2020 12:00	7.5	22	35	SSW (207)	53	0	
3/8/2020 13:00	9.1	23	36	S (178)	50	0	
3/8/2020 14:00	10.2	26	40	SSW (200)	46	0	
3/8/2020 15:00	11.1	24	42	S (185)	46	0	
3/8/2020 16:00	11.2	25	39	S (186)	44	0	
3/8/2020 17:00	11.1	23	37	S (187)	46	0	
3/8/2020 18:00	10.9	18	29	SSW (197)	48	0	
3/8/2020 19:00	10.3	17	27	S (191)	50	0	
3/8/2020 20:00	10	18	29	SSE (165)	50	0	
3/8/2020 21:00	9.9	19	30	SSW (198)	50	0	
3/8/2020 22:00	10	20	32	SSW (194)	50	0	
3/8/2020 23:00	9.4	17	29	SSE (168)	50	0	
3/9/2020 0:00	9	20	31	SSW (201)	52	0	
3/9/2020 1:00	9	22	31	SSW (202)	51	0	
3/9/2020 2:00	8.8	21	32	S (188)	52	0	
3/9/2020 3:00	7.9	22	33	SW (221)	56	0	
3/9/2020 4:00	7.4	22	32	S (175)	58	0	
3/9/2020 5:00	6.8	20	28	SSW (199)	59	0	
3/9/2020 6:00	6.6	19	27	SSW (210)	60	0	
3/9/2020 7:00	6.5	18	28	SSW (198)	60	0	
3/9/2020 8:00	7.2	20	32	SSW (211)	59	0	0
3/9/2020 9:00	8.7	20	33	SW (221)	58	0	
3/9/2020 10:00	10.4	22	38	SW (218)	54	0	
3/9/2020 11:00	11.9	22	36	SW (230)	50	0	
3/9/2020 12:00	13.5	23	38	SSW (196)	48	0	
3/9/2020 13:00	13.6	21	37	SSW (207)	47	0	
3/9/2020 14:00	14.2	25	41	SW (220)	46	0	
3/9/2020 15:00	13.9	21	34	SW (226)	49	0	
3/9/2020 16:00	14.3	21	33	SW (217)	52	0	
3/9/2020 17:00	13.7	18	30	SSW (200)	56	0	
3/9/2020 18:00	13.1	15	28	S (191)	62	0	
3/9/2020 19:00	11.4	11	24	SSE (156)	76	0.6	
3/9/2020 20:00	11.9	17	26	S (180)	74	0	
3/9/2020 21:00	11.7	14	34	SSW (199)	77	0	
3/9/2020 22:00	12.5	19	33	SSW (211)	64	0	
3/9/2020 23:00	11.3	18	29	S (177)	73	0.2	
3/10/2020 0:00	10.4	21	37	S (172)	76	0.6	
3/10/2020 1:00	10.1	26	42	SSW (196)	90	1.8	
3/10/2020 2:00	9.7	25	43	S (184)	100	2	
3/10/2020 3:00	9.6	24	39	S (186)	100	0.8	
3/10/2020 4:00	9.7	22	35	S (190)	100	0.2	
3/10/2020 5:00	9.9	24	44	SSW (195)	100	0	
3/10/2020 6:00	10.2	23	36	SSW (206)	100	0.2	
3/10/2020 7:00	10.5	22	37	SW (235)	100	1.4	
3/10/2020 8:00	10.4	20	31	SW (234)	100	0.6	8.4
3/10/2020 9:00	5.3	29	46	NNW (338)	100	0.4	
3/10/2020 10:00	1.5	35	48	NW (321)	100	0	
3/10/2020 11:00	1.1	39	54	NW (316)	100	0	
3/10/2020 12:00	0.8	39	60	NNW (332)	100	0.2	
3/10/2020 13:00	0.2	39	58	NNW (346)	100	0	
3/10/2020 14:00	-0.1	36	48	NW (321)	100	0	
3/10/2020 15:00	0.1	29	42	NNW (340)	100	0	
3/10/2020 16:00	0.3	26	38	NW (320)	100	0	
3/10/2020 17:00	0.5	23	36	NW (325)	92	0	
3/10/2020 18:00	0.2	16	30	N (1)	91	0	
3/10/2020 19:00	-0.4	12	21	N (1)	97	0	
3/10/2020 20:00	-0.9	9	15	NNW (331)	99	0	
3/10/2020 21:00	-1.2	9	14	NE (36)	100	0	
3/10/2020 22:00	-1.5	7	11	NNE (26)	100	0	
3/10/2020 23:00	-2	6	11	E (79)	100	0	
3/11/2020 0:00	-2.1	7	11	SE (132)	100	0	
3/11/2020 1:00	-2.3	4	6	S (171)	100	0	
3/11/2020 2:00	-2.5	2	6	E (97)	100	0	
3/11/2020 3:00	-3.1	3	5	SSE (149)	100	0	
3/11/2020 4:00	-3.2	2	5	NNW (348)	100	0	
3/11/2020 5:00	-3.4	3	6	WSW (240)	100	0	
3/11/2020 6:00	-3.1	1	4	NW (324)	100	0	
3/11/2020 7:00	-3	4	8	ESE (107)	100	0	
3/11/2020 8:00	-2.4	8	14	SE (132)	100	0	0.6
3/11/2020 9:00	-1.3	14	23	SE (137)	100	0	
3/11/2020 10:00	-0.6	13	22	ESE (112)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/11/2020 11:00	0.4	16	23	ESE (113)	100	0	
3/11/2020 12:00	2.2	17	25	SSE (152)	100	0	
3/11/2020 13:00	3.2	19	28	SSE (159)	91	0	
3/11/2020 14:00	3	17	28	ESE (114)	80	0	
3/11/2020 15:00	3.3	13	19	ESE (102)	77	0	
3/11/2020 16:00	4.1	12	20	SE (131)	75	0	
3/11/2020 17:00	4.2	14	20	SE (137)	73	0	
3/11/2020 18:00	4.1	12	18	SE (124)	73	0	
3/11/2020 19:00	3.1	12	17	SE (124)	76	0	
3/11/2020 20:00	1.8	12	17	SSE (152)	82	0	
3/11/2020 21:00	1.1	13	18	SE (143)	84	0	
3/11/2020 22:00	0.9	11	15	SE (134)	84	0	
3/11/2020 23:00	0.8	11	15	SE (146)	87	0	
3/12/2020 0:00	0.6	15	19	SE (140)	100	0	
3/12/2020 1:00	0	11	17	SSE (166)	100	0	
3/12/2020 2:00	-0.5	7	11	SE (138)	100	0	
3/12/2020 3:00	0	11	15	SE (135)	100	0	
3/12/2020 4:00	0.1	9	15	ESE (112)	100	0	
3/12/2020 5:00	0.2	9	13	ESE (106)	100	0	
3/12/2020 6:00	0.4	10	16	ESE (120)	100	0	
3/12/2020 7:00	0.5	12	18	SE (130)	100	0	
3/12/2020 8:00	0.8	15	20	SE (126)	100	0	0
3/12/2020 9:00	1.1	16	21	SE (128)	100	0	
3/12/2020 10:00	1.6	15	20	SE (129)	100	0	
3/12/2020 11:00	2	17	21	E (100)	100	0	
3/12/2020 12:00	3.1	19	28	SE (127)	100	0	
3/12/2020 13:00	4.3	21	29	ESE (122)	100	0	
3/12/2020 14:00	5.8	27	37	SE (133)	95	0	
3/12/2020 15:00	7	28	37	SE (124)	87	0	
3/12/2020 16:00	7.3	26	35	SSE (150)	76	0	
3/12/2020 17:00	6.8	29	37	SE (144)	78	0	
3/12/2020 18:00	6.3	23	32	SE (129)	82	0	
3/12/2020 19:00	5.9	27	37	SE (130)	81	0	
3/12/2020 20:00	5.6	22	29	SE (127)	83	0	
3/12/2020 21:00	5.9	20	29	ESE (121)	82	0	
3/12/2020 22:00	6.3	19	25	ESE (110)	82	0	
3/12/2020 23:00	6.4	23	29	SE (140)	84	0	
3/13/2020 0:00	6.2	24	36	SE (146)	88	0	
3/13/2020 1:00	6.4	22	35	SSE (157)	100	0.4	
3/13/2020 2:00	6.7	17	24	SSE (165)	100	0	
3/13/2020 3:00	8	17	29	SW (221)	100	0	
3/13/2020 4:00	8.4	26	41	WSW (252)	100	0	
3/13/2020 5:00	7.6	29	52	WNW (298)	100	0	
3/13/2020 6:00	5.5	29	47	W (272)	91	0	
3/13/2020 7:00	4.6	28	48	W (267)	75	0	
3/13/2020 8:00	4.4	24	42	WNW (295)	68	0	0.4
3/13/2020 9:00	4.2	28	50	WSW (243)	65	0	
3/13/2020 10:00	4	29	47	WNW (302)	62	0	
3/13/2020 11:00	4.3	31	49	W (261)	62	0	
3/13/2020 12:00	5.4	32	54	W (260)	57	0	
3/13/2020 13:00	5.8	31	48	WSW (248)	48	0	
3/13/2020 14:00	No Meteorological Data Recorded for Time Interval[1]						
3/13/2020 15:00							
3/13/2020 16:00							
3/13/2020 17:00	6.5	29	47	NW (306)	46	0	
3/13/2020 18:00	5.9	27	43	NW (304)	48	0	
3/13/2020 19:00	4.4	24	37	WNW (294)	54	0	
3/13/2020 20:00	3.2	21	36	W (279)	59	0	
3/13/2020 21:00	2	14	27	WNW (298)	61	0	
3/13/2020 22:00	1.7	14	23	W (271)	62	0	
3/13/2020 23:00	0.7	11	20	W (260)	70	0	
3/14/2020 0:00	-0.4	11	17	WNW (286)	69	0	
3/14/2020 1:00	0.4	15	24	W (280)	67	0	
3/14/2020 2:00	0.8	21	31	WNW (303)	64	0	
3/14/2020 3:00	0.5	18	28	WNW (283)	67	0	
3/14/2020 4:00	-0.1	13	25	WNW (299)	69	0	
3/14/2020 5:00	-0.4	15	20	NW (317)	74	0	
3/14/2020 6:00	-1.2	9	17	NNW (345)	79	0	
3/14/2020 7:00	-1.6	8	12	NW (320)	79	0	
3/14/2020 8:00	-1	9	15	NNW (331)	74	0	0
3/14/2020 9:00	-0.4	17	30	N (0)	72	0	
3/14/2020 10:00	0	17	27	N (354)	71	0	
3/14/2020 11:00	0	17	25	NNW (346)	71	0	
3/14/2020 12:00	0	15	24	NNW (335)	71	0	
3/14/2020 13:00	0	14	25	NNW (339)	73	0	
3/14/2020 14:00	0	13	21	NNW (327)	75	0	
3/14/2020 15:00	-0.2	14	23	NNW (346)	76	0	
3/14/2020 16:00	-0.3	14	22	N (352)	78	0	
3/14/2020 17:00	-0.3	15	26	N (0)	79	0	
3/14/2020 18:00	-0.4	15	24	N (5)	80	0	
3/14/2020 19:00	-0.5	15	26	NNW (332)	80	0	
3/14/2020 20:00	-0.6	18	28	N (2)	80	0	
3/14/2020 21:00	-0.7	16	27	N (7)	79	0	
3/14/2020 22:00	-0.7	14	23	NE (41)	80	0	
3/14/2020 23:00	-0.8	11	19	N (1)	80	0	
3/15/2020 0:00	-1.1	14	20	NNE (15)	80	0	
3/15/2020 1:00	-1.4	15	23	N (3)	81	0	
3/15/2020 2:00	-1.6	16	22	ENE (58)	81	0	
3/15/2020 3:00	-1.4	12	20	N (2)	80	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/15/2020 4:00	-1.7	12	18	NNE (12)	82	0	
3/15/2020 5:00	-2.5	10	17	ENE (57)	86	0	
3/15/2020 6:00	-2.9	11	17	NNE (23)	84	0	
3/15/2020 7:00	-3	12	17	NE (44)	83	0	
3/15/2020 8:00	-2.3	14	23	NNE (33)	77	0	0
3/15/2020 9:00	-1	18	25	NE (35)	66	0	
3/15/2020 10:00	0.2	16	22	NE (39)	56	0	
3/15/2020 11:00	1.5	13	20	NNE (28)	55	0	
3/15/2020 12:00	2.5	12	22	NNE (32)	43	0	
3/15/2020 13:00	3.3	14	24	N (351)	41	0	
3/15/2020 14:00	4	11	21	N (3)	41	0	
3/15/2020 15:00	3.7	16	24	NNW (338)	49	0	
3/15/2020 16:00	3.2	19	28	NNW (338)	49	0	
3/15/2020 17:00	2.7	18	29	NNW (329)	50	0	
3/15/2020 18:00	1.7	17	27	N (10)	56	0	
3/15/2020 19:00	0.1	12	25	NNW (341)	68	0	
3/15/2020 20:00	-1.1	9	15	N (5)	75	0	
3/15/2020 21:00	-1.9	8	14	NE (37)	81	0	
3/15/2020 22:00	-2.2	8	11	SE (146)	79	0	
3/15/2020 23:00	-2.7	6	11	ESE (108)	82	0	
3/16/2020 0:00	-2.8	9	12	E (94)	83	0	
3/16/2020 1:00	-2.7	10	15	E (93)	68	0	
3/16/2020 2:00	-3.3	10	14	E (100)	61	0	
3/16/2020 3:00	-3.1	14	20	ESE (112)	59	0	
3/16/2020 4:00	-3.2	14	18	ESE (109)	59	0	
3/16/2020 5:00	-3.6	15	19	E (99)	59	0	
3/16/2020 6:00	-4.2	15	20	E (89)	59	0	
3/16/2020 7:00	-4.1	17	21	E (93)	60	0	
3/16/2020 8:00	-2.9	18	25	ESE (111)	58	0	0
3/16/2020 9:00	-1.1	21	28	ESE (103)	53	0	
3/16/2020 10:00	0.4	18	28	ESE (102)	54	0	
3/16/2020 11:00	1.7	20	26	SE (129)	52	0	
3/16/2020 12:00	3.2	19	25	SE (141)	51	0	
3/16/2020 13:00	4.7	15	24	SE (141)	49	0	
3/16/2020 14:00	5.8	13	23	SE (128)	47	0	
3/16/2020 15:00	6.8	10	21	SE (144)	47	0	
3/16/2020 16:00	7.3	12	21	S (182)	46	0	
3/16/2020 17:00	7	13	22	SSE (153)	46	0	
3/16/2020 18:00	5.2	16	26	SW (219)	74	0	
3/16/2020 19:00	3.2	13	22	SW (230)	86	0.4	
3/16/2020 20:00	2.3	6	13	SSW (208)	92	0.2	
3/16/2020 21:00	2.4	9	20	S (169)	95	0	
3/16/2020 22:00	1.6	12	17	S (184)	100	0	
3/16/2020 23:00	1.4	12	19	S (174)	100	0	
3/17/2020 0:00	1.5	13	20	S (174)	100	0	
3/17/2020 1:00	1.9	13	21	SSW (207)	100	0	
3/17/2020 2:00	1.9	11	19	SSW (213)	100	0	
3/17/2020 3:00	2	12	21	SW (225)	100	0	
3/17/2020 4:00	2.1	14	20	SW (226)	100	0	
3/17/2020 5:00	2.1	15	21	SW (226)	100	0	
3/17/2020 6:00	2.2	15	20	SW (230)	100	0	
3/17/2020 7:00	2.3	14	20	SW (233)	100	0	
3/17/2020 8:00	2.4	14	21	WSW (244)	100	0	0.6
3/17/2020 9:00	3.1	16	24	WSW (252)	100	0	
3/17/2020 10:00	3.7	18	27	W (266)	97	0	
3/17/2020 11:00	4.3	20	34	WNW (286)	81	0	
3/17/2020 12:00	4.9	22	34	WNW (296)	70	0	
3/17/2020 13:00	5.9	21	35	WNW (284)	59	0	
3/17/2020 14:00	6.7	22	34	WNW (302)	55	0	
3/17/2020 15:00	7.4	21	46	WSW (245)	49	0	
3/17/2020 16:00	8	20	36	W (281)	46	0	
3/17/2020 17:00	7.8	18	30	NW (314)	48	0	
3/17/2020 18:00	7.2	10	20	NNW (341)	48	0	
3/17/2020 19:00	5.5	6	10	NNE (25)	56	0	
3/17/2020 20:00	3.8	6	7	NE (43)	58	0	
3/17/2020 21:00	2.7	5	7	SE (134)	71	0	
3/17/2020 22:00	2	6	10	SSE (164)	69	0	
3/17/2020 23:00	1	4	9	ESE (117)	75	0	
3/18/2020 0:00	-0.1	4	20	NNE (27)	81	0	
3/18/2020 1:00	-0.8	8	12	NE (36)	73	0	
3/18/2020 2:00	-1	13	19	NE (52)	72	0	
3/18/2020 3:00	-1.6	15	21	ENE (58)	75	0	
3/18/2020 4:00	-1.7	15	19	E (79)	75	0	
3/18/2020 5:00	-1.4	17	23	E (100)	73	0	
3/18/2020 6:00	-1	16	24	E (97)	73	0	
3/18/2020 7:00	-1	16	21	E (100)	72	0	
3/18/2020 8:00	-0.1	19	30	ESE (110)	68	0	0
3/18/2020 9:00	0.9	23	32	ESE (123)	71	0	
3/18/2020 10:00	1.7	25	36	ESE (123)	74	0	
3/18/2020 11:00	2.9	25	31	ESE (120)	77	0	
3/18/2020 12:00	5.1	24	34	SE (134)	75	0	
3/18/2020 13:00	6.6	23	33	SSE (152)	69	0	
3/18/2020 14:00	7	22	32	SE (134)	64	0	
3/18/2020 15:00	7.1	20	30	SE (134)	61	0	
3/18/2020 16:00	7.2	18	26	E (101)	62	0	
3/18/2020 17:00	6.8	17	25	ESE (102)	63	0	
3/18/2020 18:00	6.5	14	20	E (101)	65	0	
3/18/2020 19:00	5.5	12	17	SE (127)	84	0.4	
3/18/2020 20:00	4.1	14	22	E (99)	96	1	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/18/2020 21:00	3	17	27	E (91)	100	0.8	
3/18/2020 22:00	2.5	16	23	ENE (59)	100	0	
3/18/2020 23:00	2.4	17	26	E (101)	100	0	
3/19/2020 0:00	2.8	13	19	NE (52)	100	0	
3/19/2020 1:00	2.6	12	19	ENE (68)	100	0	
3/19/2020 2:00	2.7	16	23	E (86)	100	0	
3/19/2020 3:00	2.7	8	20	ENE (57)	100	0	
3/19/2020 4:00	2.6	7	10	NNE (29)	100	0	
3/19/2020 5:00	2.4	6	12	NE (38)	100	0	
3/19/2020 6:00	2.4	6	11	NNW (327)	100	0	
3/19/2020 7:00	2.5	4	7	NNE (28)	100	0	
3/19/2020 8:00	2.7	3	7	ESE (105)	100	0	2.2
3/19/2020 9:00	3.2	7	11	ESE (122)	100	0	
3/19/2020 10:00	4.2	9	13	S (178)	100	0	
3/19/2020 11:00	5.3	13	19	S (174)	100	0	
3/19/2020 12:00	6.4	13	19	SE (142)	100	0	
3/19/2020 13:00	7	13	17	SSE (167)	100	0	
3/19/2020 14:00	7.4	17	23	SSE (160)	100	0	
3/19/2020 15:00	7.3	20	28	SE (139)	100	0	
3/19/2020 16:00	7.2	19	27	SE (134)	100	0	
3/19/2020 17:00	6.6	21	31	SE (126)	100	0	
3/19/2020 18:00	6.5	23	30	SE (140)	100	0	
3/19/2020 19:00	6.5	22	34	SE (127)	100	0.4	
3/19/2020 20:00	6.4	29	39	SE (130)	100	1	
3/19/2020 21:00	6.8	32	43	SE (129)	100	0.8	
3/19/2020 22:00	7.4	34	45	SE (138)	100	0.2	
3/19/2020 23:00	8.4	32	43	SE (146)	100	0.2	
3/20/2020 0:00	10	22	35	SSW (203)	100	0.2	
3/20/2020 1:00	12.6	21	34	SW (215)	100	0	
3/20/2020 2:00	14.2	22	38	SW (224)	100	0	
3/20/2020 3:00	15.2	27	41	SSW (200)	100	0	
3/20/2020 4:00	15.3	21	32	SW (223)	100	0	
3/20/2020 5:00	15.8	23	35	SW (215)	100	0	
3/20/2020 6:00	15.9	23	37	SW (235)	100	0	
3/20/2020 7:00	15.8	20	34	SW (219)	100	0	
3/20/2020 8:00	15.5	22	38	SW (221)	100	0	2.8
3/20/2020 9:00	15.9	29	44	SW (221)	100	2.6	
3/20/2020 10:00	11.7	35	51	NW (316)	100	0.6	
3/20/2020 11:00	7.8	38	52	NW (318)	100	0.2	
3/20/2020 12:00	6	32	46	NW (312)	100	0	
3/20/2020 13:00	5.9	34	46	WNW (301)	98	0	
3/20/2020 14:00	5.4	35	46	NW (311)	90	0	
3/20/2020 15:00	4.6	36	49	NNW (327)	85	0	
3/20/2020 16:00	3.8	36	52	NW (304)	82	0	
3/20/2020 17:00	2.1	36	52	NW (313)	78	0	
3/20/2020 18:00	0.5	28	41	NNW (336)	84	0	
3/20/2020 19:00	-0.9	25	41	NNW (334)	83	0	
3/20/2020 20:00	-1.4	26	45	N (6)	80	0	
3/20/2020 21:00	-2.2	29	47	NNW (330)	79	0	
3/20/2020 22:00	-2.6	30	44	NW (324)	74	0	
3/20/2020 23:00	-2.4	28	39	WNW (301)	80	0	
3/21/2020 0:00	-2.1	22	41	N (0)	82	0	
3/21/2020 1:00	-2.4	24	39	NNW (328)	76	0	
3/21/2020 2:00	-2.8	20	32	NNE (19)	75	0	
3/21/2020 3:00	-3.1	19	31	N (350)	75	0	
3/21/2020 4:00	-3.5	20	30	N (354)	74	0	
3/21/2020 5:00	-4.1	22	34	NNE (13)	75	0	
3/21/2020 6:00	-4.5	23	34	NNE (21)	73	0	
3/21/2020 7:00	-5.4	23	31	N (0)	72	0	
3/21/2020 8:00	-5.7	18	27	NNW (342)	71	0	3.4
3/21/2020 9:00	-5.3	18	30	NNE (22)	67	0	
3/21/2020 10:00	-4.7	15	25	N (2)	64	0	
3/21/2020 11:00	-3.9	12	21	NE (40)	62	0	
3/21/2020 12:00	-2.7	14	23	NNE (29)	62	0	
3/21/2020 13:00	-1.6	14	28	N (3)	62	0	
3/21/2020 14:00	-1.2	14	24	NNE (15)	62	0	
3/21/2020 15:00	-1	15	27	N (2)	63	0	
3/21/2020 16:00	-1.2	17	28	NNW (344)	64	0	
3/21/2020 17:00	-1.7	17	26	N (2)	65	0	
3/21/2020 18:00	-2.3	15	22	NNW (339)	68	0	
3/21/2020 19:00	-3.2	15	24	NNW (329)	74	0	
3/21/2020 20:00	-3.8	13	21	NNE (16)	77	0	
3/21/2020 21:00	-4.1	9	14	NNW (346)	79	0	
3/21/2020 22:00	-4.5	7	11	N (1)	78	0	
3/21/2020 23:00	-4.9	5	8	N (1)	78	0	
3/22/2020 0:00	-5.3	6	9	N (0)	77	0	
3/22/2020 1:00	-5.9	7	11	NE (56)	79	0	
3/22/2020 2:00	-5.9	8	14	NE (51)	75	0	
3/22/2020 3:00	-6.2	10	12	NE (54)	76	0	
3/22/2020 4:00	-6.7	10	13	E (89)	82	0	
3/22/2020 5:00	-6.4	12	15	E (89)	84	0	
3/22/2020 6:00	-6.3	14	20	E (85)	82	0	
3/22/2020 7:00	-6.3	15	20	ESE (108)	71	0	
3/22/2020 8:00	-5.2	15	21	ESE (109)	71	0	0
3/22/2020 9:00	-3.2	19	30	SE (125)	64	0	
3/22/2020 10:00	-1.8	20	29	SE (132)	63	0	
3/22/2020 11:00	-0.6	20	28	ESE (119)	60	0	
3/22/2020 12:00	0.6	21	31	ESE (111)	54	0	
3/22/2020 13:00	1.8	20	31	SE (128)	50	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/22/2020 14:00	2.9	21	32	SE (140)	49	0	
3/22/2020 15:00	3.3	17	28	ESE (102)	46	0	
3/22/2020 16:00	3.3	18	28	ESE (114)	43	0	
3/22/2020 17:00	3.3	19	32	ESE (105)	40	0	
3/22/2020 18:00	2.8	18	26	ENE (77)	44	0	
3/22/2020 19:00	2.1	14	22	ESE (102)	50	0	
3/22/2020 20:00	1.1	18	27	ESE (102)	61	0	
3/22/2020 21:00	0.3	19	28	E (96)	65	0	
3/22/2020 22:00	-0.2	18	24	E (87)	63	0	
3/22/2020 23:00	-0.3	15	23	ESE (105)	65	0	
3/23/2020 0:00	-0.7	15	23	E (96)	79	0	
3/23/2020 1:00	-1.5	16	23	ESE (102)	100	0	
3/23/2020 2:00	-1.6	17	24	ESE (111)	100	0	
3/23/2020 3:00	-1.2	13	19	E (83)	100	0	
3/23/2020 4:00	-0.8	11	16	E (81)	100	0	
3/23/2020 5:00	-0.4	11	16	ENE (60)	100	0	
3/23/2020 6:00	-0.3	8	11	NE (36)	100	0	
3/23/2020 7:00	-0.3	8	11	ENE (72)	100	0	
3/23/2020 8:00	0.3	12	19	ESE (102)	100	0.4	0.4
3/23/2020 9:00	0.7	13	17	E (97)	100	1.2	
3/23/2020 10:00	1	12	18	E (93)	100	0.4	
3/23/2020 11:00	1.5	7	12	E (97)	100	1	
3/23/2020 12:00	2.1	2	9	WNW (303)	100	0.6	
3/23/2020 13:00	2.4	8	14	NW (304)	100	0.2	
3/23/2020 14:00	2.4	18	25	N (352)	100	0	
3/23/2020 15:00	2.3	20	28	NNW (331)	100	0	
3/23/2020 16:00	2	15	25	NNW (341)	100	0	
3/23/2020 17:00	2.2	14	21	NW (320)	100	0	
3/23/2020 18:00	1.6	18	24	NW (314)	100	0	
3/23/2020 19:00	1	15	24	N (351)	100	0	
3/23/2020 20:00	0.7	7	12	N (351)	100	0	
3/23/2020 21:00	0.6	6	12	N (0)	100	0	
3/23/2020 22:00	0.3	3	8	NE (55)	100	0	
3/23/2020 23:00	0.3	3	6	NW (317)	100	0	
3/24/2020 0:00	0.3	7	17	NNW (343)	100	0	
3/24/2020 1:00	0.3	6	14	NW (317)	100	0	
3/24/2020 2:00	0.2	3	9	ESE (102)	100	0	
3/24/2020 3:00	-0.3	3	6	S (178)	100	0	
3/24/2020 4:00	-0.5	5	8	ESE (122)	100	0	
3/24/2020 5:00	-0.3	5	8	SSE (150)	100	0	
3/24/2020 6:00	-0.2	8	12	S (174)	100	0	
3/24/2020 7:00	-0.1	10	16	SE (129)	100	0	
3/24/2020 8:00	0.1	10	13	SE (131)	100	0	3.4
3/24/2020 9:00	0.6	11	16	SSE (167)	100	0	
3/24/2020 10:00	1.9	10	14	ESE (110)	100	0	
3/24/2020 11:00	3.2	6	10	E (99)	93	0	
3/24/2020 12:00	4	8	17	SE (137)	78	0	
3/24/2020 13:00	4.1	8	16	SE (143)	76	0	
3/24/2020 14:00	4.7	7	13	E (95)	74	0	
3/24/2020 15:00	5	12	21	SE (131)	77	0	
3/24/2020 16:00	5.1	8	17	NE (53)	74	0	
3/24/2020 17:00	5.7	10	20	ENE (75)	69	0	
3/24/2020 18:00	5.8	15	21	E (86)	67	0	
3/24/2020 19:00	4.7	11	20	ENE (75)	74	0	
3/24/2020 20:00	3.5	17	26	SE (137)	79	0	
3/24/2020 21:00	2.1	16	22	SE (144)	81	0	
3/24/2020 22:00	1.8	13	20	E (87)	83	0	
3/24/2020 23:00	1.9	13	18	E (96)	83	0	
3/25/2020 0:00	1.8	12	21	E (96)	85	0	
3/25/2020 1:00	1.8	10	16	E (80)	85	0	
3/25/2020 2:00	1	6	10	E (84)	86	0	
3/25/2020 3:00	0.2	6	8	N (2)	100	0	
3/25/2020 4:00	-0.3	6	10	NE (37)	100	0	
3/25/2020 5:00	-0.6	5	8	N (0)	100	0	
3/25/2020 6:00	-1.1	5	7	N (354)	100	0	
3/25/2020 7:00	-1.4	4	7	NW (317)	100	0	
3/25/2020 8:00	-0.2	4	8	NW (325)	100	0	0
3/25/2020 9:00	2.2	4	8	W (265)	100	0	
3/25/2020 10:00	3.8	3	9	SSW (205)	86	0	
3/25/2020 11:00	5.3	7	14	WSW (243)	76	0	
3/25/2020 12:00	6.2	8	17	SW (235)	73	0	
3/25/2020 13:00	6.9	6	14	SW (228)	71	0	
3/25/2020 14:00	8.2	7	16	W (273)	69	0	
3/25/2020 15:00	9.5	8	17	W (260)	65	0	
3/25/2020 16:00	10.4	7	17	SE (135)	61	0	
3/25/2020 17:00	11.1	9	18	WSW (248)	59	0	
3/25/2020 18:00	11	11	17	SSW (209)	59	0	
3/25/2020 19:00	9.6	9	14	S (176)	64	0	
3/25/2020 20:00	7.7	8	13	SSE (157)	75	0	
3/25/2020 21:00	7.1	12	20	S (184)	77	0	
3/25/2020 22:00	5.8	13	18	SSE (162)	79	0	
3/25/2020 23:00	4.9	13	17	SSE (153)	80	0	
3/26/2020 0:00	4.7	14	19	SSE (156)	82	0	
3/26/2020 1:00	4.6	16	23	S (169)	83	0	
3/26/2020 2:00	4	15	20	SSE (148)	87	0	
3/26/2020 3:00	3.8	13	19	SSE (148)	89	0	
3/26/2020 4:00	3.9	12	17	SSE (154)	92	0	
3/26/2020 5:00	4.2	14	19	S (171)	94	0	
3/26/2020 6:00	5.3	15	22	S (182)	88	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/26/2020 7:00	6.2	16	23	S (176)	83	0	
3/26/2020 8:00	7.9	20	35	SSW (196)	79	0	0
3/26/2020 9:00	8.9	18	28	SSW (203)	76	0	
3/26/2020 10:00	9.3	16	30	SW (228)	77	0	
3/26/2020 11:00	10.2	16	27	SW (231)	75	0	
3/26/2020 12:00	11.4	16	26	WSW (245)	73	0	
3/26/2020 13:00	12.4	15	26	W (266)	70	0	
3/26/2020 14:00	12.5	15	25	W (265)	70	0	
3/26/2020 15:00	7.8	21	37	N (0)	100	0	
3/26/2020 16:00	5.6	19	27	N (6)	100	0	
3/26/2020 17:00	4.7	16	28	NNW (328)	100	0	
3/26/2020 18:00	4	13	23	NW (326)	100	0	
3/26/2020 19:00	2.3	14	25	N (349)	100	0	
3/26/2020 20:00	1.9	12	19	NNW (335)	100	0	
3/26/2020 21:00	1.9	12	19	N (352)	100	0	
3/26/2020 22:00	2.1	12	19	N (1)	100	0	
3/26/2020 23:00	2.1	12	21	WNW (298)	100	0	
3/27/2020 0:00	2.3	14	22	NNE (22)	100	0	
3/27/2020 1:00	2.6	13	19	NNW (348)	100	0	
3/27/2020 2:00	2.7	11	19	NW (326)	100	0	
3/27/2020 3:00	2.5	10	16	NNE (17)	100	0	
3/27/2020 4:00	2.2	10	17	N (0)	100	0	
3/27/2020 5:00	1.7	12	19	N (7)	100	0	
3/27/2020 6:00	1.3	12	18	N (4)	100	0	
3/27/2020 7:00	1.1	8	15	NNW (335)	100	0	
3/27/2020 8:00	1.1	8	14	NW (306)	100	0	0
3/27/2020 9:00	1.1	9	16	N (355)	100	0	
3/27/2020 10:00	1.3	10	17	ENE (68)	100	0	
3/27/2020 11:00	2.1	8	16	NE (51)	100	0	
3/27/2020 12:00	3.3	4	11	N (1)	98	0	
3/27/2020 13:00	5.2	6	13	NNE (27)	89	0	
3/27/2020 14:00	7.2	3	10	NNW (345)	76	0	
3/27/2020 15:00	8.8	4	11	SE (144)	66	0	
3/27/2020 16:00	9.5	5	13	ENE (61)	61	0	
3/27/2020 17:00	9.7	7	20	NW (317)	67	0	
3/27/2020 18:00	7.1	11	21	N (0)	73	0	
3/27/2020 19:00	5.7	8	14	NE (43)	79	0	
3/27/2020 20:00	3.9	7	12	NE (35)	85	0	
3/27/2020 21:00	3.2	8	11	ENE (57)	87	0	
3/27/2020 22:00	2.8	7	10	E (89)	89	0	
3/27/2020 23:00	2.9	8	14	ESE (112)	92	0	
3/28/2020 0:00	3.3	8	13	SE (134)	95	0	
3/28/2020 1:00	4.4	14	23	ESE (110)	92	0	
3/28/2020 2:00	5.1	14	22	E (92)	79	0	
3/28/2020 3:00	5.3	11	17	ESE (120)	80	0	
3/28/2020 4:00	5.6	16	23	E (98)	80	0	
3/28/2020 5:00	5.8	17	24	E (96)	83	0.8	
3/28/2020 6:00	5.7	13	25	NE (35)	95	2.6	
3/28/2020 7:00	5.1	17	26	NE (53)	100	4	
3/28/2020 8:00	4.8	20	29	ENE (68)	100	3	10.4
3/28/2020 9:00	5.1	23	30	ENE (75)	100	0.6	
3/28/2020 10:00	5.8	16	26	ENE (62)	100	2.2	
3/28/2020 11:00	6.6	22	36	E (90)	100	1	
3/28/2020 12:00	8.9	26	39	E (80)	100	0	
3/28/2020 13:00	10.3	21	31	E (94)	100	0	
3/28/2020 14:00	11.4	24	38	E (90)	100	0	
3/28/2020 15:00	11.4	16	26	ESE (105)	100	0	
3/28/2020 16:00	10.8	11	16	ESE (105)	100	0	
3/28/2020 17:00	10.8	12	17	ESE (103)	100	0	
3/28/2020 18:00	10.3	8	13	E (79)	100	0	
3/28/2020 19:00	9	15	24	ENE (74)	100	0	
3/28/2020 20:00	7.9	16	25	E (90)	100	0	
3/28/2020 21:00	7.7	18	28	ENE (76)	100	0	
3/28/2020 22:00	7.7	17	27	ESE (122)	100	0	
3/28/2020 23:00	7.7	17	28	E (98)	100	0	
3/29/2020 0:00	7.2	23	35	ESE (106)	100	0	
3/29/2020 1:00	7.1	27	39	SE (124)	100	1.2	
3/29/2020 2:00	6.8	29	50	ESE (107)	100	4	
3/29/2020 3:00	7.2	26	37	ESE (110)	100	0	
3/29/2020 4:00	7.4	28	46	SE (128)	100	0.2	
3/29/2020 5:00	8.1	26	39	SE (125)	100	2.8	
3/29/2020 6:00	8.6	30	41	SE (134)	100	0.2	
3/29/2020 7:00	9.9	25	35	SE (124)	100	2.6	
3/29/2020 8:00	11.5	25	36	SSE (156)	100	1	15.8
3/29/2020 9:00	13.5	18	29	S (183)	100	0.2	
3/29/2020 10:00	15.1	20	42	SW (224)	100	0	
3/29/2020 11:00	16.6	27	38	SW (217)	100	0	
3/29/2020 12:00	17.3	30	58	SW (220)	96	0.2	
3/29/2020 13:00	17	36	56	WSW (242)	69	0.2	
3/29/2020 14:00	15.2	44	68	SW (216)	61	0	
3/29/2020 15:00	12.4	42	64	SSW (209)	66	0	
3/29/2020 16:00	11.5	42	69	SW (216)	66	0	
3/29/2020 17:00	10.8	40	58	SW (234)	65	0	
3/29/2020 18:00	9.6	37	58	SW (222)	75	0	
3/29/2020 19:00	8.6	29	44	SW (214)	78	0	
3/29/2020 20:00	8.7	22	35	SW (231)	75	0	
3/29/2020 21:00	9	29	47	WSW (249)	71	0	
3/29/2020 22:00	8.6	26	46	WSW (246)	70	0	
3/29/2020 23:00	8.2	22	39	SW (224)	70	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
3/30/2020 0:00	7.9	21	35	WSW (253)	68	0	
3/30/2020 1:00	7.5	19	36	W (275)	70	0	
3/30/2020 2:00	7	21	33	W (261)	74	0	
3/30/2020 3:00	6.7	25	38	WSW (250)	73	0	
3/30/2020 4:00	6.2	24	37	WSW (240)	76	0	
3/30/2020 5:00	5.9	22	32	SW (228)	76	0	
3/30/2020 6:00	5.7	19	29	WSW (245)	77	0	
3/30/2020 7:00	5.6	19	30	WSW (248)	80	0	
3/30/2020 8:00	5.5	21	33	WSW (238)	77	0	0.6
3/30/2020 9:00	5.4	20	34	WSW (258)	81	0	
3/30/2020 10:00	5.4	19	29	W (281)	81	0	
3/30/2020 11:00	5.4	18	27	W (272)	86	0	
3/30/2020 12:00	5.2	19	29	WNW (293)	99	0	
3/30/2020 13:00	5.1	22	30	NW (309)	94	0	
3/30/2020 14:00	4.9	20	30	WNW (301)	100	0	
3/30/2020 15:00	3.9	15	27	NNW (330)	100	0.2	
3/30/2020 16:00	3.6	14	20	NNW (330)	100	0	
3/30/2020 17:00	3.6	13	20	NNW (348)	100	0	
3/30/2020 18:00	3	11	20	NNW (342)	100	0.2	
3/30/2020 19:00	3	10	17	NNW (336)	100	0.2	
3/30/2020 20:00	2.9	9	13	NNW (331)	100	0	
3/30/2020 21:00	3	11	27	NNW (339)	100	0	
3/30/2020 22:00	2.8	14	24	NW (324)	100	0	
3/30/2020 23:00	2.8	15	24	NNW (331)	100	0	
3/31/2020 0:00	2.6	15	20	NW (310)	100	0	
3/31/2020 1:00	2.3	12	19	NW (310)	100	0	
3/31/2020 2:00	2.3	15	21	NW (325)	100	0	
3/31/2020 3:00	2.4	16	24	NW (306)	100	0	
3/31/2020 4:00	2.5	14	21	N (352)	100	0.2	
3/31/2020 5:00	2.5	13	23	NNW (328)	100	0	
3/31/2020 6:00	2.4	16	23	NNE (22)	100	0	
3/31/2020 7:00	2.5	15	24	NNE (15)	100	0	
3/31/2020 8:00	2.7	12	20	N (7)	100	0	0.8
3/31/2020 9:00	3.4	10	16	NNE (33)	100	0	
3/31/2020 10:00	4.6	8	13	NNW (334)	100	0	
3/31/2020 11:00	5.5	5	10	ENE (57)	100	0	
3/31/2020 12:00	6.9	8	14	NNE (28)	93	0	
3/31/2020 13:00	6.2	8	14	NW (308)	100	0	
3/31/2020 14:00	6.5	8	14	WNW (302)	100	0	
3/31/2020 15:00	5.8	11	23	NW (314)	100	0	
3/31/2020 16:00	5.1	11	21	NNW (332)	100	0.2	
3/31/2020 17:00	4.8	14	20	NNW (336)	100	0	
3/31/2020 18:00	4.5	13	21	NNW (334)	100	0	
3/31/2020 19:00	4.6	10	16	N (5)	100	0	
3/31/2020 20:00	5.3	15	22	ENE (77)	100	0	
3/31/2020 21:00	5	18	27	ENE (72)	100	0	
3/31/2020 22:00	4.8	17	25	ENE (61)	100	0	
3/31/2020 23:00	4.5	12	18	ENE (58)	100	0	

Notes:

[1] Intervals with unavailable meteorological data were not included in noise monitoring analysis.

ATTACHMENT C



Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

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Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

Ontario Traffic, Inc.
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Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

Ontario Traffic, Inc.
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Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

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version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

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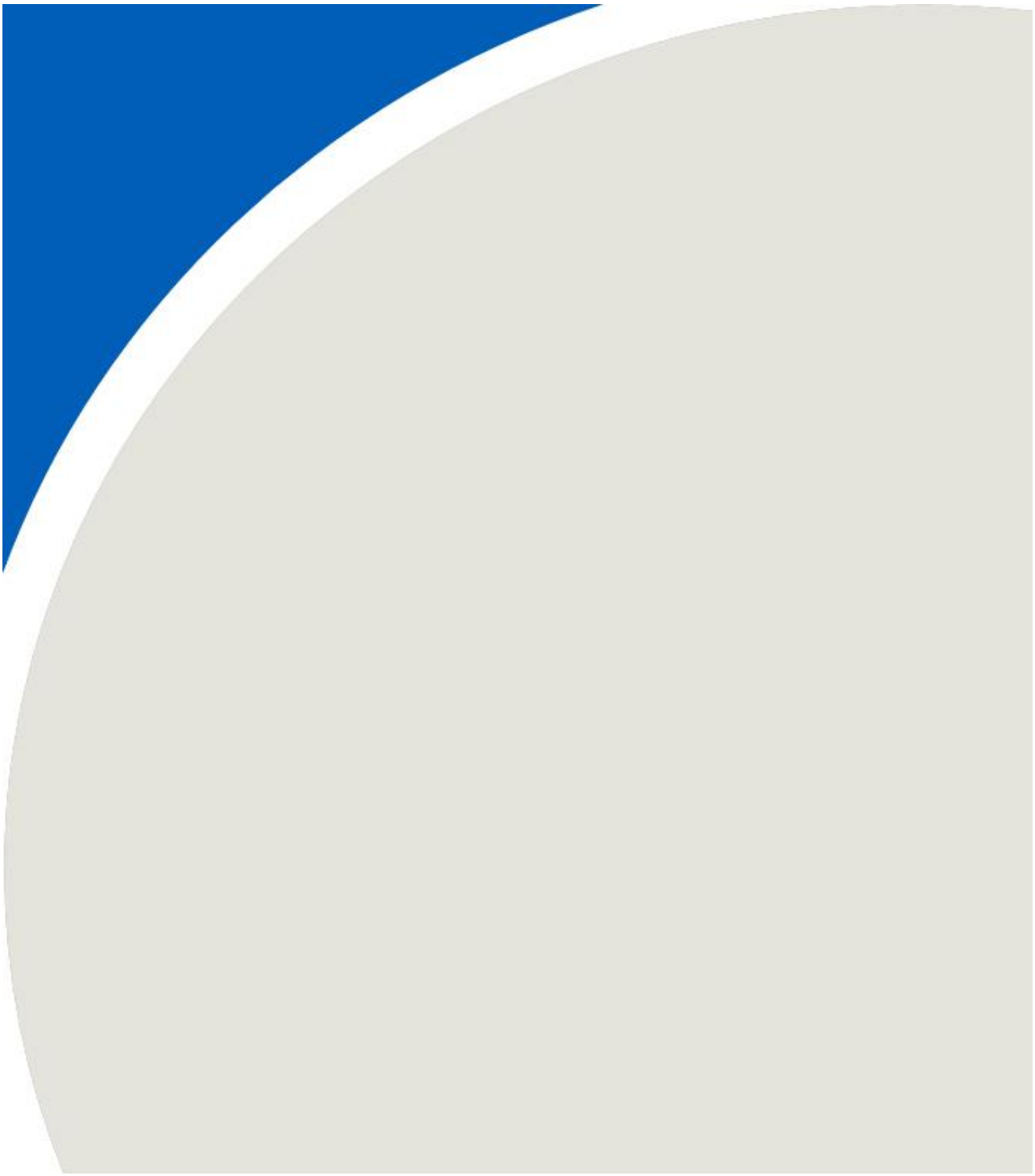
Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

Q2



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August 21, 2020

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Second Quarter 2020 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2001313-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation has retained RWDI to conduct the Second Quarter acoustic survey for 2020 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 13, 2011. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

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Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. The current landfilling stage as described in the NMP is "Phase 4 @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 4 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	63
M2	65
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2020 Second Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ,\ 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ,\ 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	69	68	ORNAMENT Modelling	64
M2	75	N/A	Conservatively Assumed to be negligible	75
M3	60	N/A	Conservatively Assumed to be negligible	60
M4	53	N/A	Conservatively Assumed to be negligible	53

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	489	65[3]	61[3]	63
M2	744	Yes	489	75	60	65
M3	744	Yes	489	60	50	55
M4	744	Yes	489	53	48	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	24	0	53	28	150	339	0.0%	8.3%
M2	3	7	13	29	150	339	4.7%	8.6%
M3	3	4	16	17	150	339	2.7%	5.0%
M4	0	0	3	3	150	339	0.0%	0.9%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 24 instances during operational hours, zero of which were greater than 3 dB above the limit. During non-operational hours, 81 hourly intervals in excess of the limit were recorded, 28 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in 10 instances during operational hours, 7 of which were greater than 3 dB above the limit. During non-operational hours, 42 hourly intervals in excess of the limit were recorded, 29 of which were greater than 3 dB above the limit.

At monitor M3, measured hourly sound levels exceeded the hourly limit in 7 instances during operational hours, 4 of which were greater than 3 dB above the limit. During non-operational hours, 33 hourly intervals in excess of the limit were recorded, 17 of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels did not exceed the hourly limit during operational hours. During non-operational hours, 6 hourly intervals in excess of the limit were recorded, 3 of which were greater than 3 dB above the limit.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational were below their prescribed sound level limits as specified in the NMP at all locations. This is shown in **Table 5**.

The measured $L_{EQ,\ 1\text{-}hr}$ values during the Second Quarter did not exceed the prescribed sound level limits by 3 dB at M1 or M4 during any hourly interval while the TCEC was operational.

At monitor M2, measured hourly sound levels exceeded the hourly limit by more than 3 dB during 7 hourly intervals. These instances occurred on different days and at different times. Statistical data review revealed that all 7 exceedances were high-sound-level short-duration events. Further, these data points with elevated sound level at M2 did not correlate with increased sound levels at other monitors. In addition, there was construction activity in the area near monitor M2, which included delivery and stockpiling of stone and geotextile as part of liner construction activities. Therefore, the origin of the elevated sound levels was either an off-site source of sound or related to liner construction, and not landfilling activity.

At monitor M3, measured hourly sound levels exceeded the hourly limit by more than 3 dB during four hourly intervals. These instances all occurred on Thursday, June 4, 2020. On-site observations by RWDI personnel indicated that these intervals coincided with agricultural activities in the area near to monitor M3. Therefore, these exceedances were due to farming and not landfilling activity.

In summary, no hourly intervals at M1 or M4 were perceptibly above the limits during TCEC operating hours in the Second Quarter. At M2, the sound levels that perceptibly exceed the prescribed sound level limits are high-sound-level short-duration events and do not correspond to increased sound levels at other monitors; for this reason, these exceedances are not attributed to landfilling. Additionally, at M3, the sound levels that perceptibly exceed the prescribed sound level limits are not attributed to landfilling, but rather farming activities in the area. Therefore, no exceedances due to landfilling activity occurred at any monitor during the Second Quarter.

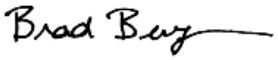
CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI



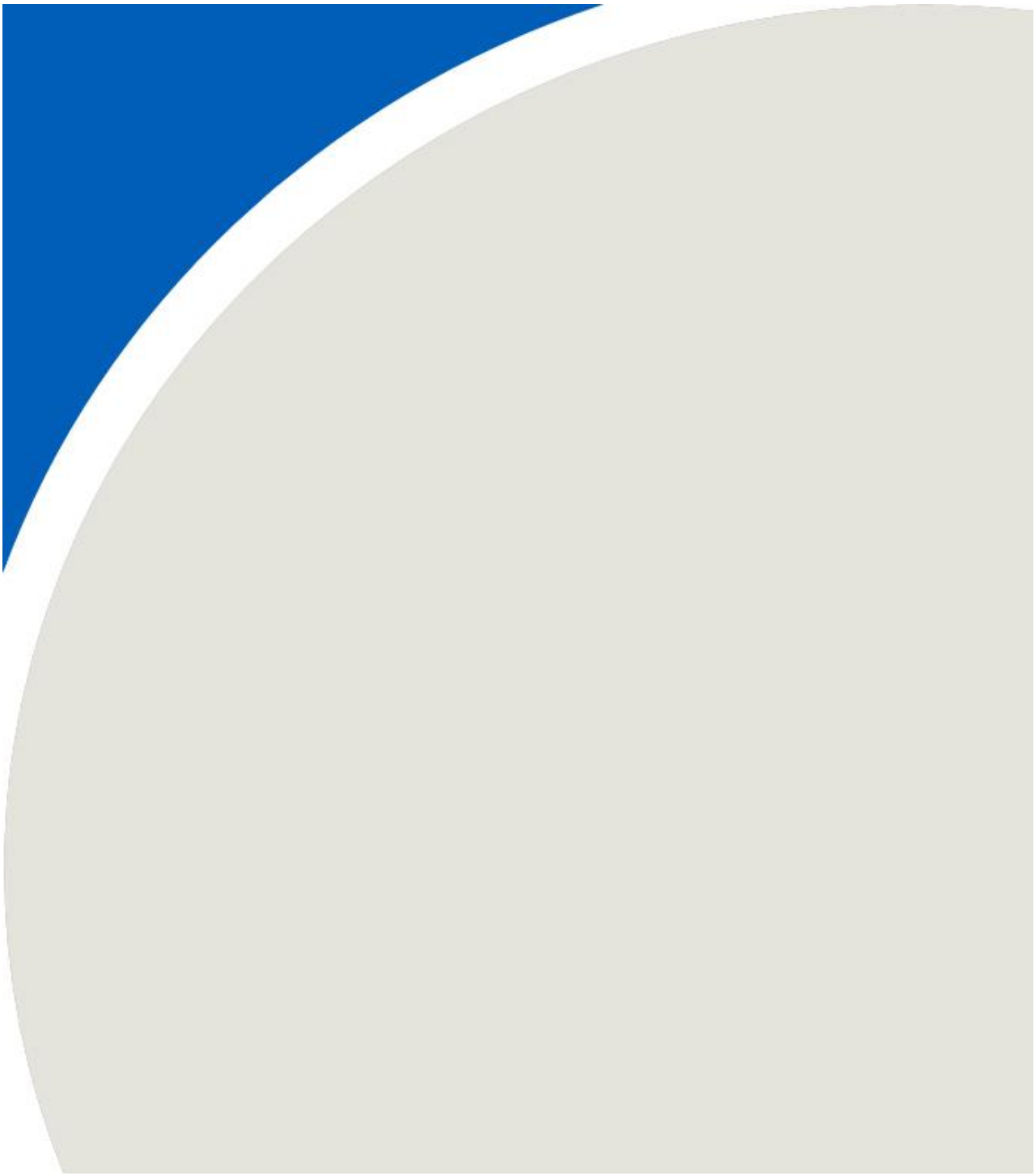


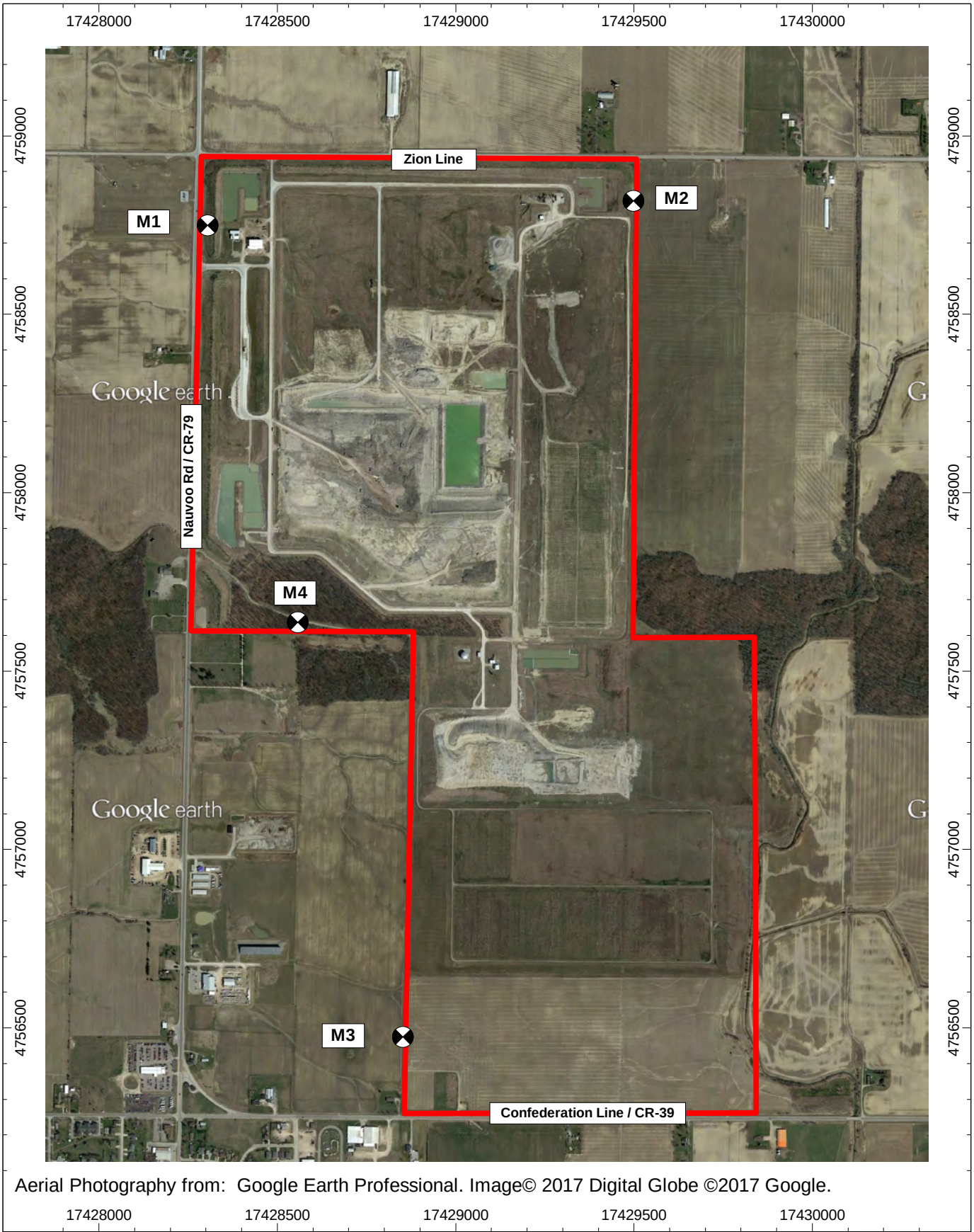
Hassan Fakih, B.Sc.
Project Manager | Scientist

Brad Bergeron, A.Sc.T., d.E.T.
Senior Consultant | Principal

HF/BCB/jo
Attach.

FIGURE





Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

Project #2001313

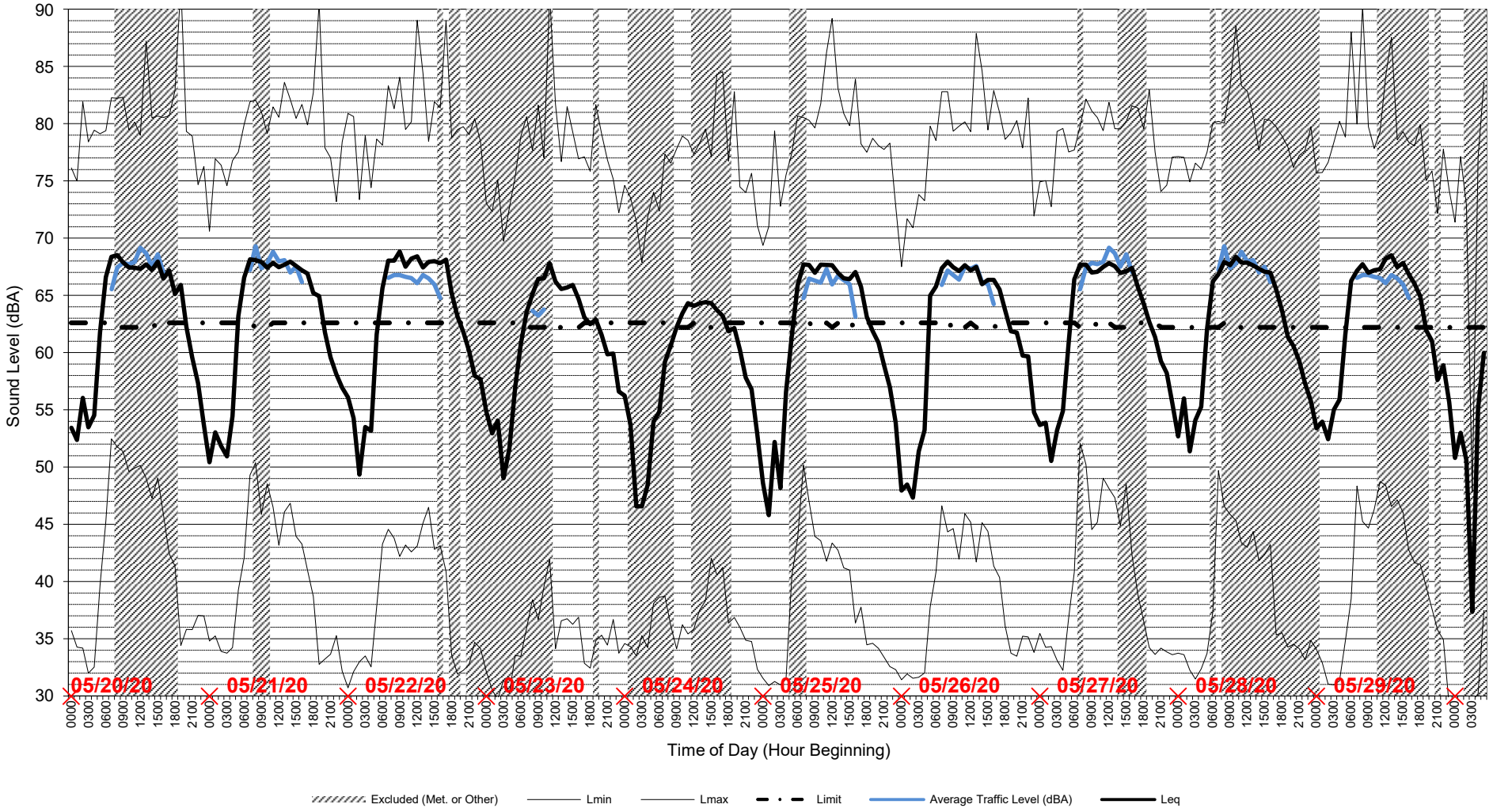
Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019

ATTACHMENT A



Long-Term Measurement Results

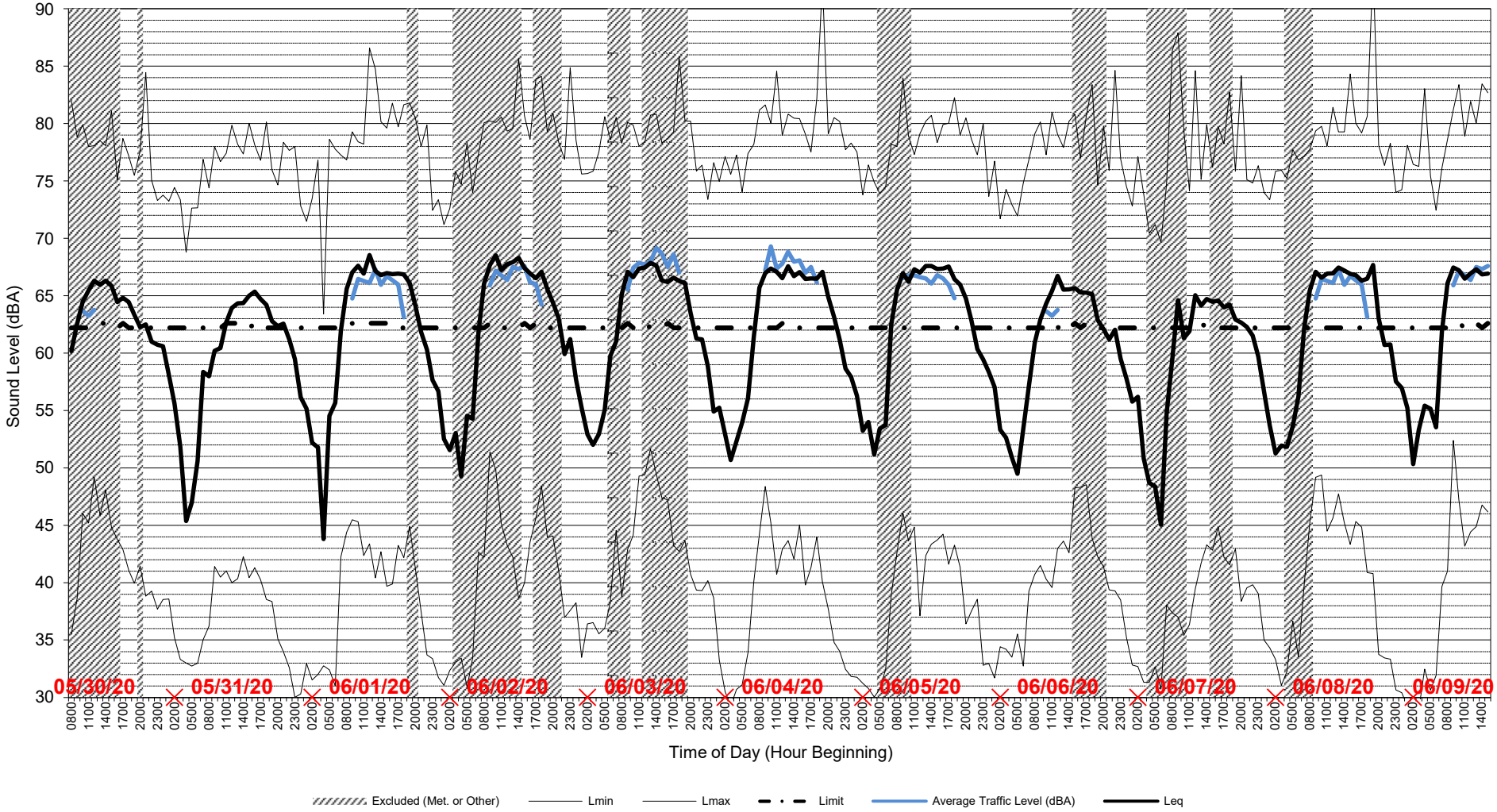
M1



Measured Ambient Sound Levels From May 20,2020 to May 30,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1a** Date: Aug 14, 2020	RWDI

Long-Term Measurement Results

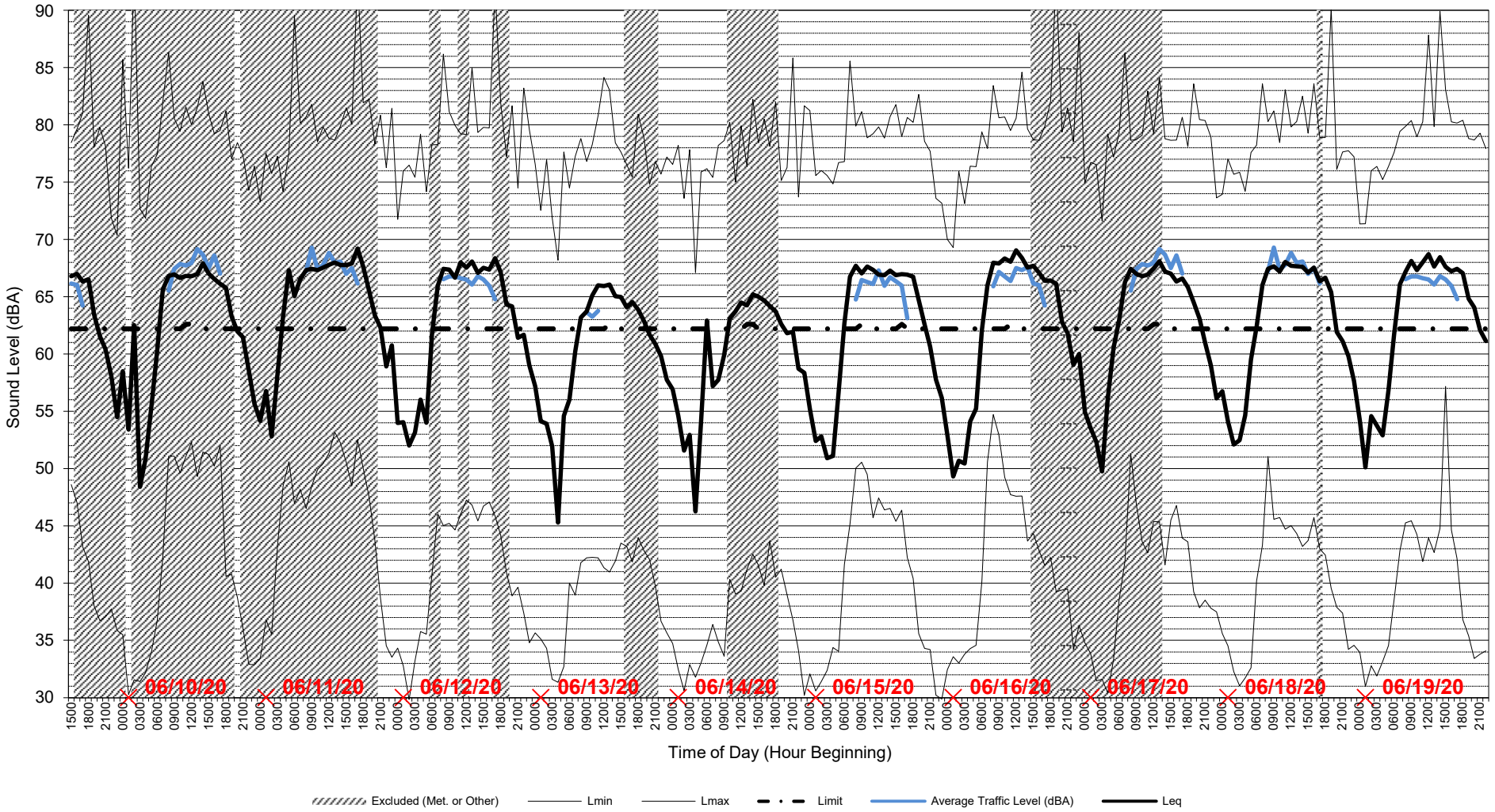
M1



Measured Ambient Sound Levels From May 30,2020 to Jun 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1b** Date: Aug 14, 2020	RWDI

Long-Term Measurement Results

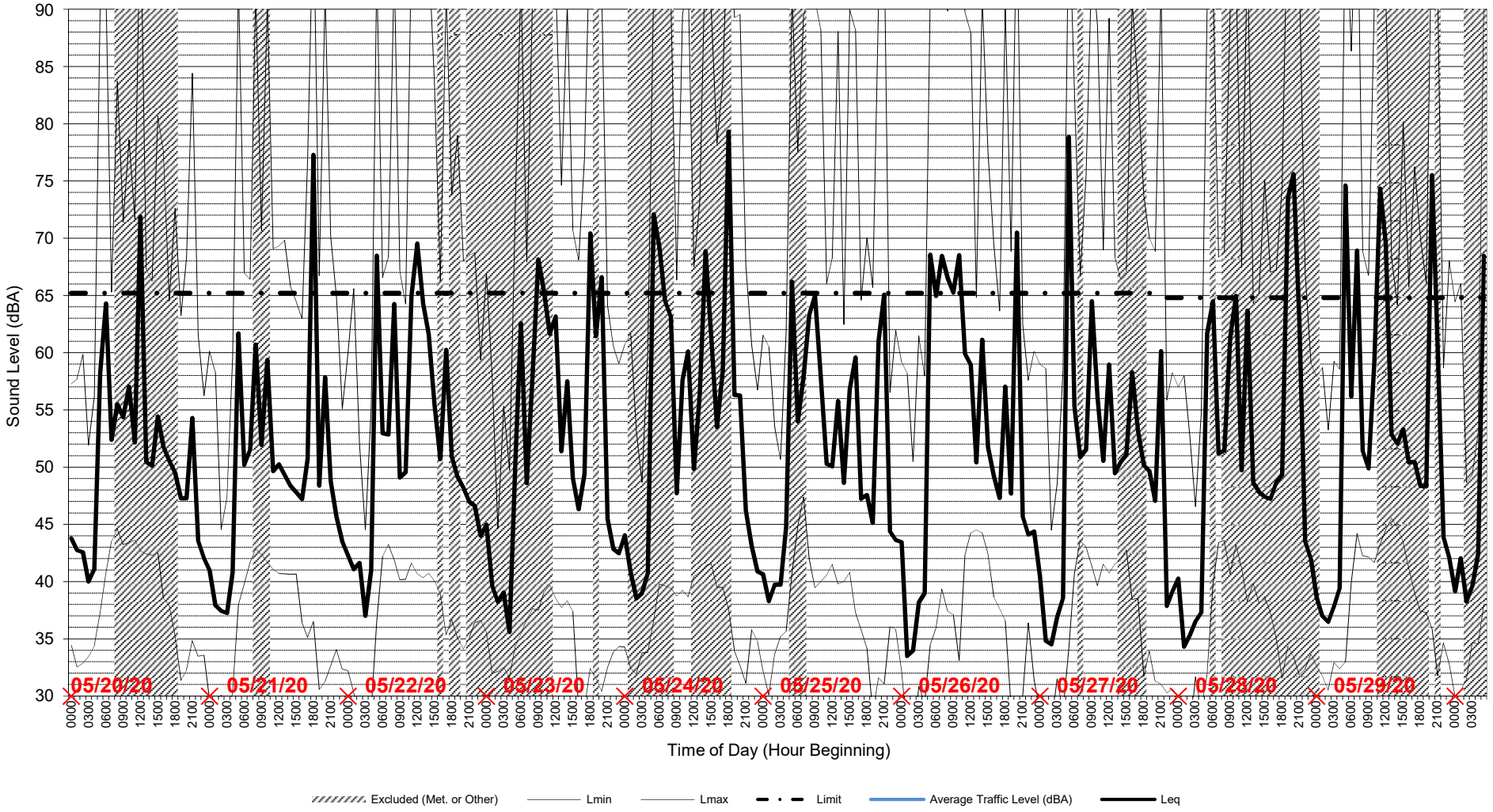
M1



Measured Ambient Sound Levels From Jun 9,2020 to Jun 19,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M1c** Date: Aug 14, 2020	RWDI

Long-Term Measurement Results

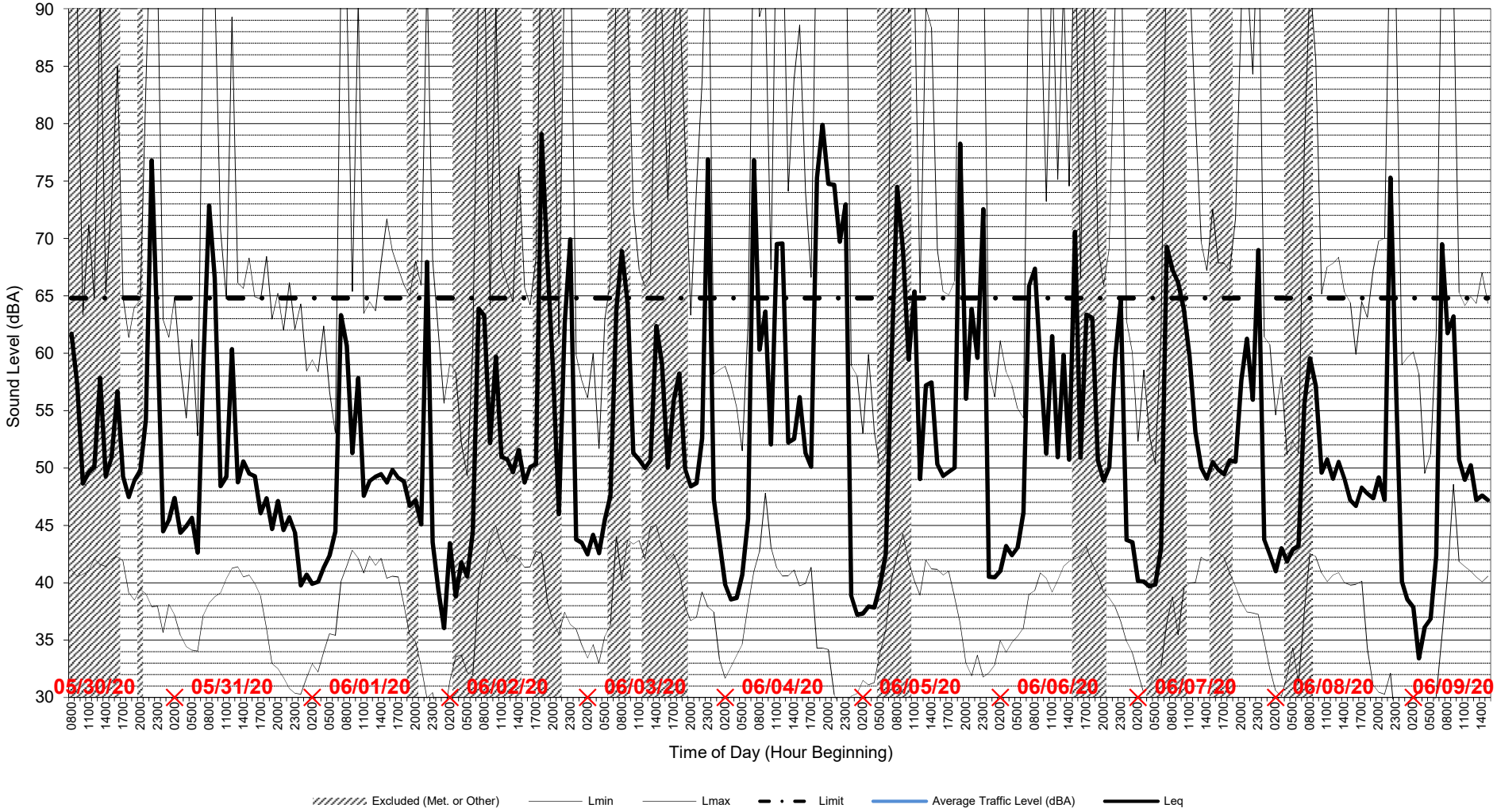
M2



Measured Ambient Sound Levels From May 20,2020 to May 30,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M2a** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

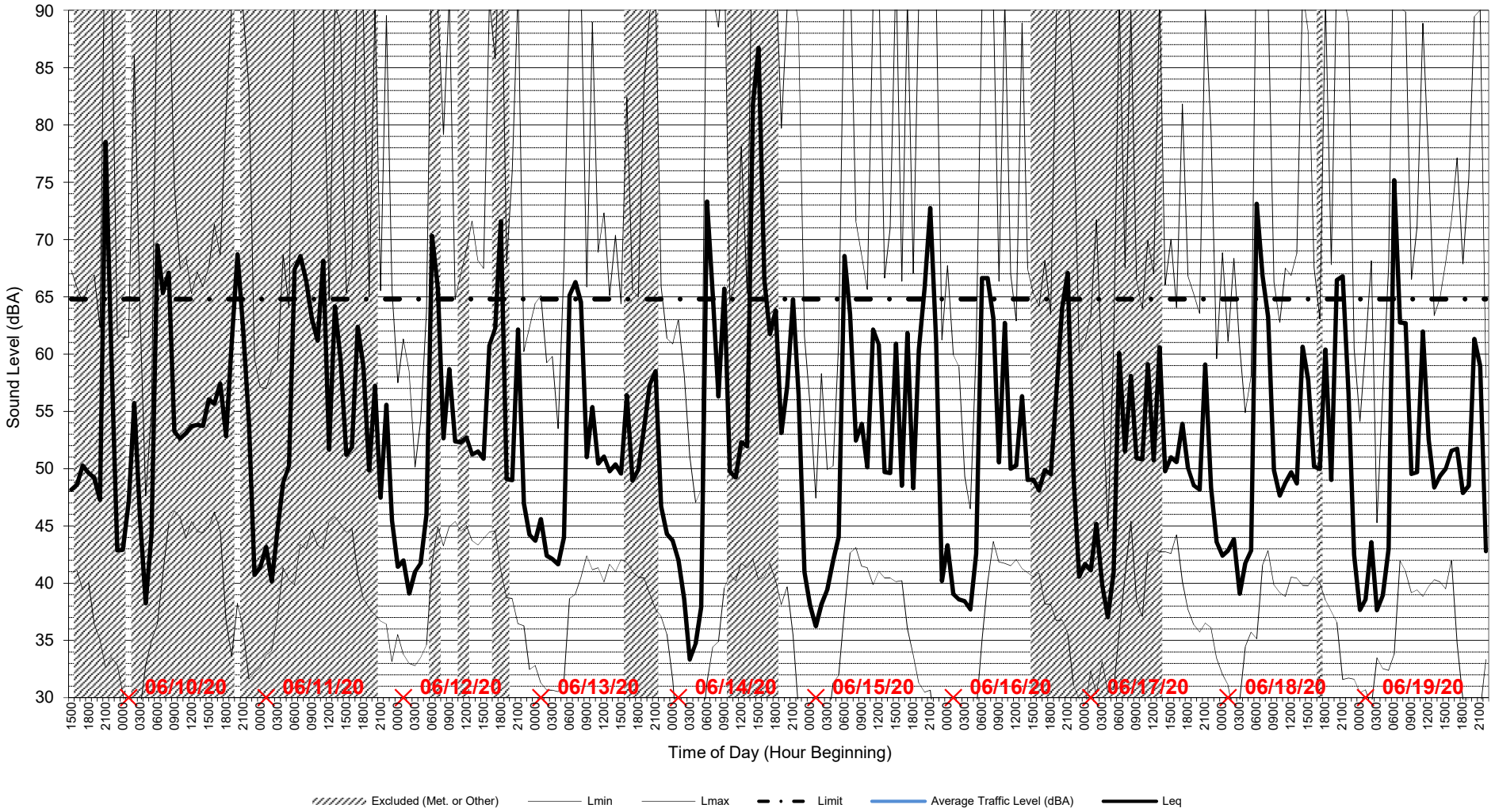
M2



Measured Ambient Sound Levels From May 30,2020 to Jun 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2b** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

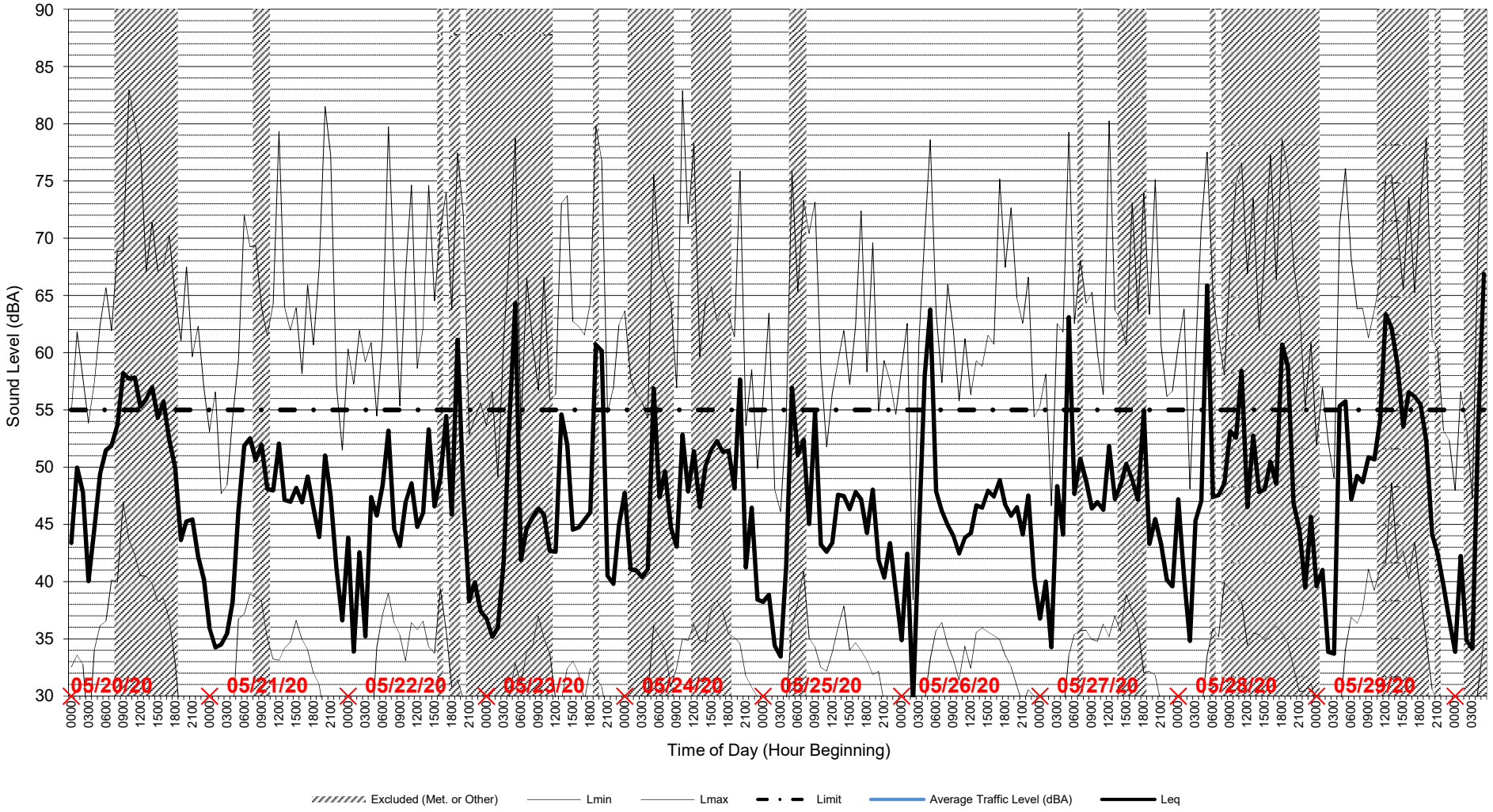
M2



Measured Ambient Sound Levels From Jun 9,2020 to Jun 19,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2c** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

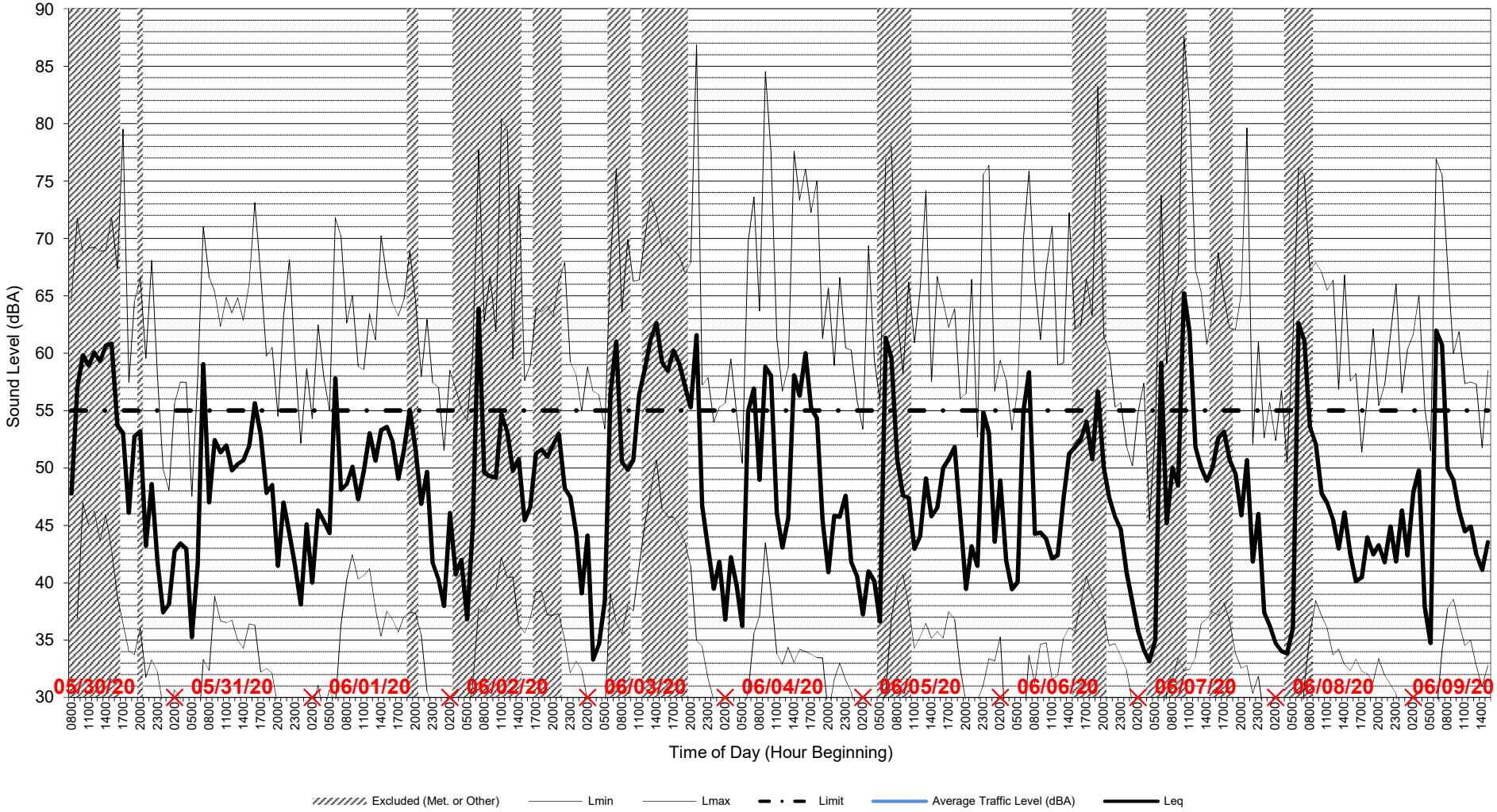
M3



Measured Ambient Sound Levels From May 20,2020 to May 30,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3a** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

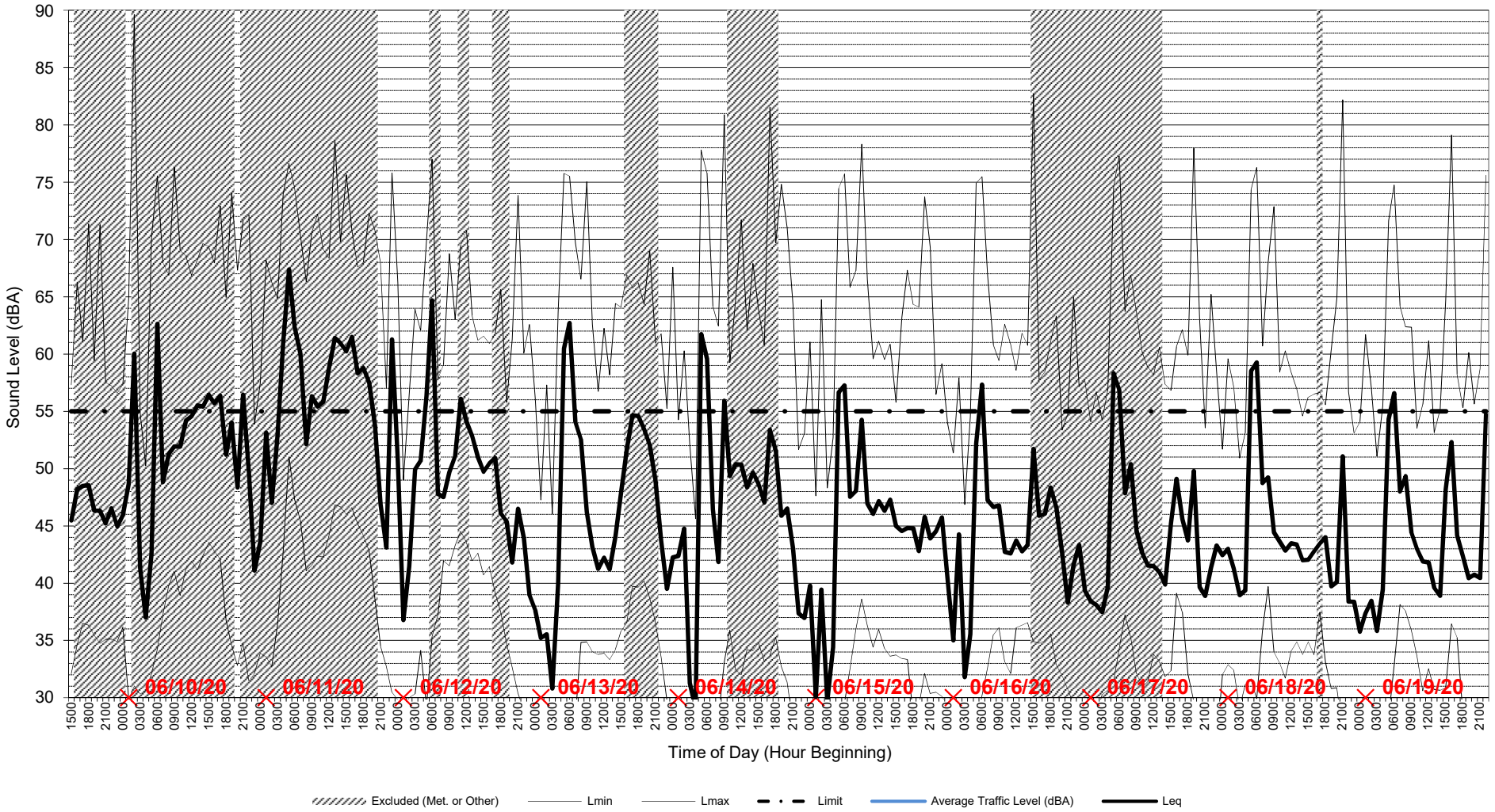
M3



Measured Ambient Sound Levels From May 30,2020 to Jun 9,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3b** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

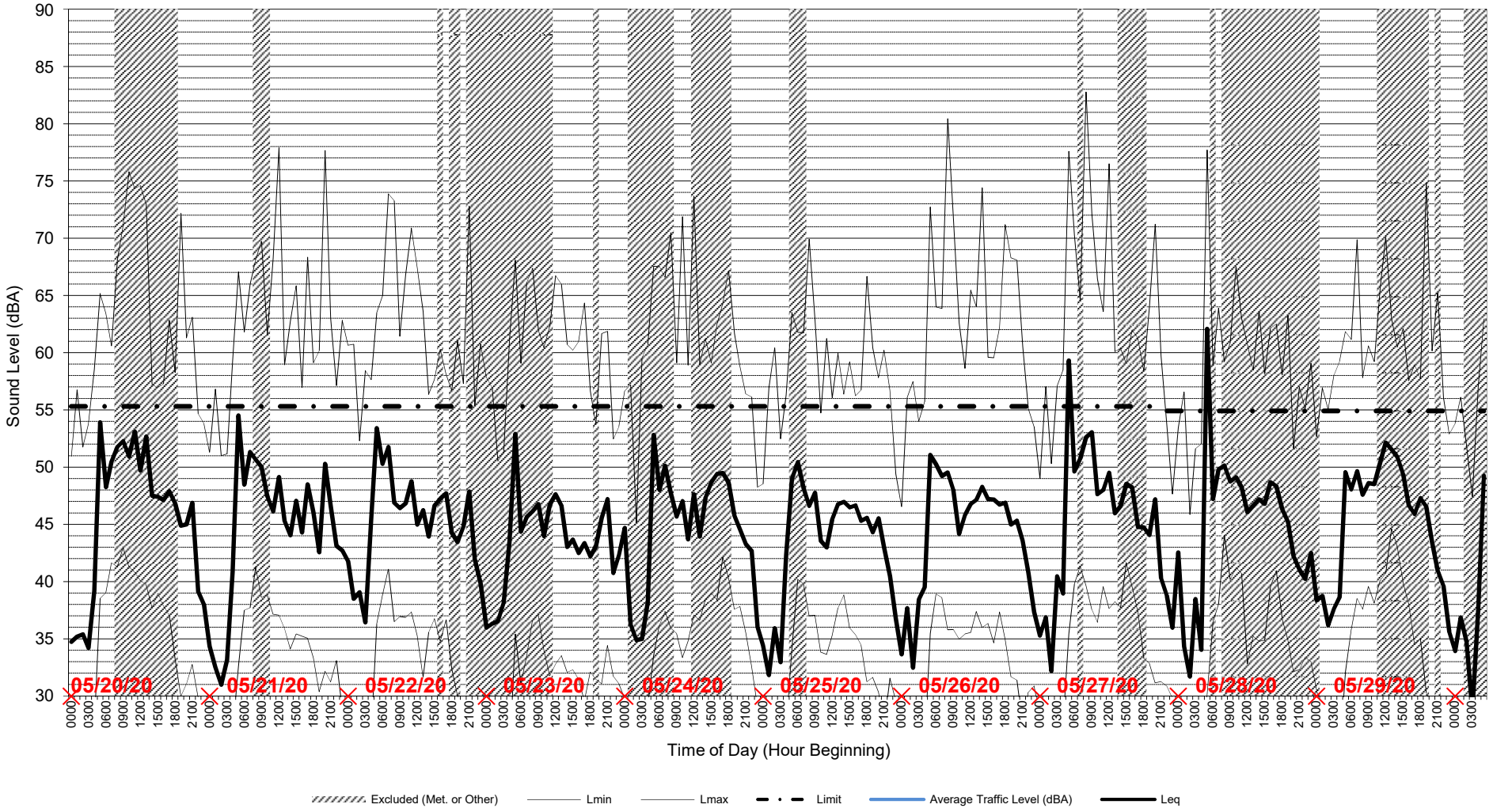
M3



Measured Ambient Sound Levels From Jun 9,2020 to Jun 19,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M3c** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

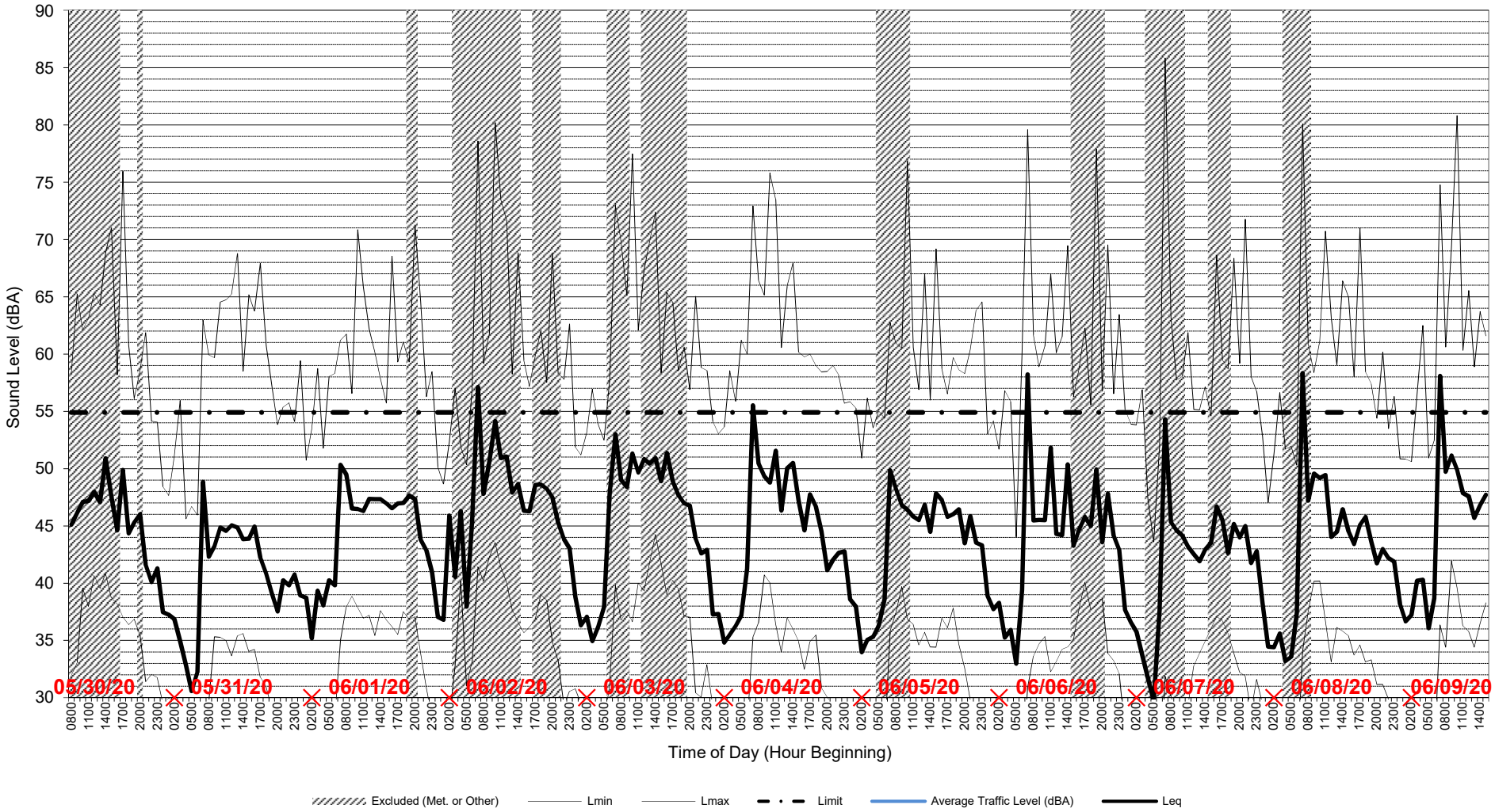
M4



Measured Ambient Sound Levels From May 20,2020 to May 30,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4a** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

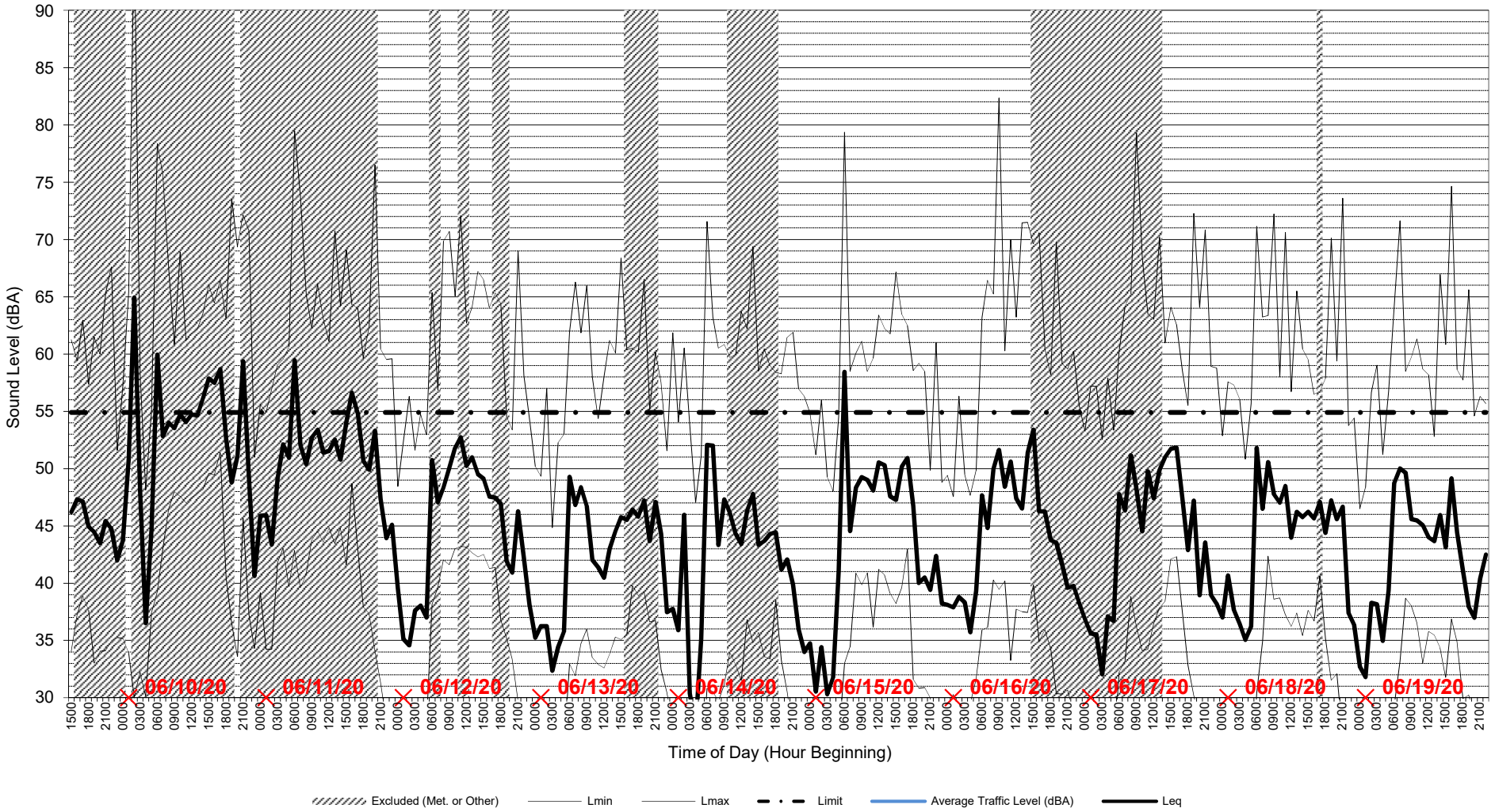
M4



Measured Ambient Sound Levels From May 30,2020 to Jun 9,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M4b** Date: Jul 20, 2020	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Jun 9,2020 to Jun 19,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4c** Date: Jul 20, 2020	RWDI

ATTACHMENT B



Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/1/2020 0:00	4.4	14	22	ENE (73)	100	0	
4/1/2020 1:00	4.5	16	24	ENE (70)	100	0	
4/1/2020 2:00	4.5	14	21	ENE (57)	100	0	
4/1/2020 3:00	4.5	13	23	ENE (57)	100	0	
4/1/2020 4:00	4.3	9	14	NNE (33)	100	0	
4/1/2020 5:00	4.1	8	13	NNE (14)	100	0	
4/1/2020 6:00	4	11	17	N (4)	100	0	
4/1/2020 7:00	3.8	12	20	NNE (19)	99	0	
4/1/2020 8:00	4	13	19	N (11)	90	0	0.2
4/1/2020 9:00	4.7	16	23	NNE (25)	84	0	
4/1/2020 10:00	5.2	14	22	NNE (19)	72	0	
4/1/2020 11:00	6.5	12	20	N (10)	65	0	
4/1/2020 12:00	8.2	14	27	NNW (333)	58	0	
4/1/2020 13:00	8.8	17	26	NNW (342)	49	0	
4/1/2020 14:00	8.8	19	32	ESE (115)	45	0	
4/1/2020 15:00	8.4	21	33	NW (308)	48	0	
4/1/2020 16:00	8	21	31	NW (326)	55	0	
4/1/2020 17:00	7.4	19	31	NNW (327)	57	0	
4/1/2020 18:00	6.6	17	27	WNW (298)	58	0	
4/1/2020 19:00	5.2	14	21	NNW (341)	66	0	
4/1/2020 20:00	3.5	7	12	NW (314)	73	0	
4/1/2020 21:00	2.1	10	13	NW (311)	77	0	
4/1/2020 22:00	1.3	8	11	NW (320)	84	0	
4/1/2020 23:00	0.6	9	12	W (279)	90	0	
4/2/2020 0:00	0.2	6	12	NW (316)	93	0	
4/2/2020 1:00	0	5	8	WNW (284)	88	0	
4/2/2020 2:00	0	6	9	WSW (252)	85	0	
4/2/2020 3:00	-0.2	6	9	WNW (285)	84	0	
4/2/2020 4:00	0.5	6	7	W (268)	78	0	
4/2/2020 5:00	0.5	4	7	NNW (331)	81	0	
4/2/2020 6:00	0.6	5	13	NW (308)	86	0	
4/2/2020 7:00	1.9	9	14	NW (310)	85	0	
4/2/2020 8:00	2.9	13	24	NNW (332)	82	0	0
4/2/2020 9:00	4.1	17	23	NNW (327)	76	0	
4/2/2020 10:00	5.2	16	24	NW (319)	74	0	
4/2/2020 11:00	6.4	16	23	NW (324)	72	0	
4/2/2020 12:00	7.7	19	28	NW (318)	66	0	
4/2/2020 13:00	8.6	20	33	NNW (327)	62	0	
4/2/2020 14:00	9	24	33	NW (320)	51	0	
4/2/2020 15:00	9.7	25	38	NNW (345)	47	0	
4/2/2020 16:00	9.6	22	31	N (0)	44	0	
4/2/2020 17:00	9.4	20	30	NW (309)	40	0	
4/2/2020 18:00	9	17	27	NW (308)	38	0	
4/2/2020 19:00	7.5	14	21	NNE (13)	43	0	
4/2/2020 20:00	4.6	11	19	NNW (348)	51	0	
4/2/2020 21:00	3.4	9	13	NW (323)	54	0	
4/2/2020 22:00	2.7	8	13	NNW (342)	61	0	
4/2/2020 23:00	2.7	9	12	N (1)	61	0	
4/3/2020 0:00	2.7	7	11	NNW (328)	60	0	
4/3/2020 1:00	2.8	8	11	NNW (336)	60	0	
4/3/2020 2:00	2.7	9	13	NNW (333)	60	0	
4/3/2020 3:00	1.7	8	12	NW (324)	69	0	
4/3/2020 4:00	0.9	7	10	NNW (334)	78	0	
4/3/2020 5:00	0.1	7	10	NW (326)	87	0	
4/3/2020 6:00	-0.3	5	11	NNW (343)	100	0	
4/3/2020 7:00	0	5	8	NW (324)	100	0	
4/3/2020 8:00	2.1	9	17	NNW (335)	100	0	0
4/3/2020 9:00	3.7	16	26	NW (320)	77	0	
4/3/2020 10:00	4.7	20	33	NNW (342)	72	0	
4/3/2020 11:00	5.1	24	37	N (1)	66	0	
4/3/2020 12:00	5.7	23	38	N (0)	67	0	
4/3/2020 13:00	6.2	23	37	NNW (332)	64	0	
4/3/2020 14:00	6.6	23	36	NW (324)	65	0	
4/3/2020 15:00	6.3	27	35	NNW (328)	67	0	
4/3/2020 16:00	6.7	23	36	NNW (339)	65	0	
4/3/2020 17:00	6.7	21	34	NNW (335)	60	0	
4/3/2020 18:00	6.2	19	30	NNW (329)	62	0	
4/3/2020 19:00	5	13	29	NW (323)	68	0	
4/3/2020 20:00	3.3	8	17	NNW (337)	76	0	
4/3/2020 21:00	2.4	7	9	NNW (348)	80	0	
4/3/2020 22:00	1.9	8	13	NNE (18)	84	0	
4/3/2020 23:00	1.3	7	9	N (3)	89	0	
4/4/2020 0:00	1.1	6	10	N (0)	100	0	
4/4/2020 1:00	0.6	3	6	WNW (300)	100	0	
4/4/2020 2:00	0.2	4	7	N (0)	100	0	
4/4/2020 3:00	0	3	5	N (6)	100	0	
4/4/2020 4:00	-0.2	2	5	NW (318)	100	0	
4/4/2020 5:00	-0.6	3	8	WNW (291)	100	0	
4/4/2020 6:00	-0.9	2	5	N (11)	100	0	
4/4/2020 7:00	-0.4	4	6	ESE (110)	100	0	
4/4/2020 8:00	2.8	6	11	SE (140)	100	0	0
4/4/2020 9:00	6.7	11	20	SE (140)	100	0	
4/4/2020 10:00	8.9	11	19	SSW (197)	90	0	
4/4/2020 11:00	10.6	9	17	WSW (244)	70	0	
4/4/2020 12:00	12.1	10	18	WSW (253)	64	0	
4/4/2020 13:00	13.4	8	19	W (261)	59	0	
4/4/2020 14:00	14.8	7	15	SSW (203)	55	0	
4/4/2020 15:00	15.7	9	18	S (186)	49	0	
4/4/2020 16:00	16.2	9	16	S (180)	46	0	
4/4/2020 17:00	15.8	12	21	SW (229)	46	0	
4/4/2020 18:00	14.7	13	19	WSW (247)	49	0	
4/4/2020 19:00	13.3	12	17	W (264)	49	0	
4/4/2020 20:00	11.6	16	35	NW (308)	75	0	
4/4/2020 21:00	7.4	19	33	N (354)	84	0	
4/4/2020 22:00	5.8	15	26	NW (312)	90	0.4	
4/4/2020 23:00	4.1	13	22	N (350)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/5/2020 0:00	3	16	28	NNW (339)	100	0	
4/5/2020 1:00	2.3	19	30	N (351)	100	0	
4/5/2020 2:00	2	20	30	N (355)	100	0	
4/5/2020 3:00	2	20	34	N (354)	100	0	
4/5/2020 4:00	1.7	20	31	NNW (347)	100	0	
4/5/2020 5:00	1.3	18	28	N (9)	100	0	
4/5/2020 6:00	1.2	15	23	NNW (344)	100	0	
4/5/2020 7:00	0.7	17	27	NNW (333)	100	0	
4/5/2020 8:00	0.4	19	31	NNW (346)	100	0	0.4
4/5/2020 9:00	0.8	19	30	NNW (337)	100	0	
4/5/2020 10:00	1.3	20	35	N (352)	99	0	
4/5/2020 11:00	1.5	19	29	N (354)	98	0	
4/5/2020 12:00	2.1	18	27	N (8)	86	0	
4/5/2020 13:00	2.9	18	26	NNE (19)	84	0	
4/5/2020 14:00	3.2	17	25	N (1)	82	0	
4/5/2020 15:00	3.8	17	29	N (0)	76	0	
4/5/2020 16:00	3.6	18	28	NNW (328)	75	0	
4/5/2020 17:00	3.5	17	28	NW (323)	74	0	
4/5/2020 18:00	3.5	16	24	NNW (341)	69	0	
4/5/2020 19:00	2.9	11	19	NNW (337)	70	0	
4/5/2020 20:00	1.1	9	18	NNW (348)	77	0	
4/5/2020 21:00	0	8	14	NW (324)	84	0	
4/5/2020 22:00	-0.7	4	8	N (354)	92	0	
4/5/2020 23:00	-1.2	4	7	N (349)	95	0	
4/6/2020 0:00	-1.4	3	7	NNW (340)	100	0	
4/6/2020 1:00	-1.8	5	7	NNW (333)	100	0	
4/6/2020 2:00	-1.8	5	8	WNW (299)	100	0	
4/6/2020 3:00	-2	5	7	N (8)	100	0	
4/6/2020 4:00	-2.2	5	8	NNE (23)	100	0	
4/6/2020 5:00	-2.1	8	12	NNE (27)	100	0	
4/6/2020 6:00	-2.3	8	10	ENE (72)	100	0	
4/6/2020 7:00	-2.4	7	10	ENE (68)	100	0	
4/6/2020 8:00	0.3	6	10	E (79)	100	0	0
4/6/2020 9:00	4.1	4	8	ESE (110)	87	0	
4/6/2020 10:00	6.6	3	8	SSW (203)	65	0	
4/6/2020 11:00	9	3	7	ESE (113)	50	0	
4/6/2020 12:00	10.9	3	8	N (6)	40	0	
4/6/2020 13:00	12.4	5	14	SE (141)	33	0	
4/6/2020 14:00	13.3	7	14	WSW (237)	30	0	
4/6/2020 15:00	14	6	16	WSW (241)	25	0	
4/6/2020 16:00	14.2	6	15	SSE (158)	24	0	
4/6/2020 17:00	13.9	7	15	SSW (209)	23	0	
4/6/2020 18:00	13.4	8	18	S (179)	30	0	
4/6/2020 19:00	11.8	11	18	SSE (158)	33	0	
4/6/2020 20:00	10.4	9	15	S (172)	36	0	
4/6/2020 21:00	9.4	9	14	ESE (109)	45	0	
4/6/2020 22:00	8.2	6	9	ESE (112)	49	0	
4/6/2020 23:00	7.7	6	9	E (86)	52	0	
4/7/2020 0:00	7.2	7	11	SSE (148)	55	0	
4/7/2020 1:00	6.8	6	10	SE (130)	58	0	
4/7/2020 2:00	6.5	7	11	SE (146)	54	0	
4/7/2020 3:00	6.4	7	11	ESE (110)	51	0	
4/7/2020 4:00	5.6	9	12	E (100)	54	0	
4/7/2020 5:00	5.8	7	12	ESE (121)	53	0	
4/7/2020 6:00	5.8	11	15	ESE (123)	51	0	
4/7/2020 7:00	6.3	12	15	SE (124)	45	0	
4/7/2020 8:00	7.6	17	22	SE (136)	42	0	0
4/7/2020 9:00	9.1	19	26	SE (130)	33	0	
4/7/2020 10:00	9.8	17	24	SE (144)	38	0	
4/7/2020 11:00	10.6	21	30	SSE (164)	40	0	
4/7/2020 12:00	8.4	14	26	ESE (116)	76	0.2	
4/7/2020 13:00	6.5	13	19	E (92)	84	0.6	
4/7/2020 14:00	7.7	19	28	ESE (110)	85	0.2	
4/7/2020 15:00	8.5	22	30	ESE (119)	81	0	
4/7/2020 16:00	9.3	23	32	SE (138)	83	0	
4/7/2020 17:00	9.4	19	28	SE (133)	88	0	
4/7/2020 18:00	8.9	21	28	SE (137)	94	0	
4/7/2020 19:00	8.7	18	26	ESE (122)	92	0	
4/7/2020 20:00	8.1	20	25	SSE (150)	85	0	
4/7/2020 21:00	7.8	13	27	ESE (109)	100	7.6	
4/7/2020 22:00	7.7	14	23	SSW (192)	100	0.2	
4/7/2020 23:00	8.2	14	28	S (182)	100	3	
4/8/2020 0:00	8.7	12	29	SW (224)	100	0.8	
4/8/2020 1:00	8	6	15	N (5)	100	0	
4/8/2020 2:00	7.9	4	8	NNE (18)	100	0	
4/8/2020 3:00	7.7	7	14	NNW (330)	100	0	
4/8/2020 4:00	7.6	8	19	NNW (332)	100	0.2	
4/8/2020 5:00	7.6	14	21	NW (306)	100	0	
4/8/2020 6:00	7.1	8	13	NW (309)	100	0	
4/8/2020 7:00	6.8	12	17	NW (320)	100	0	
4/8/2020 8:00	7.2	15	25	NW (323)	100	0	12.8
4/8/2020 9:00	7	19	27	WNW (299)	100	0	
4/8/2020 10:00	7.3	16	25	NW (323)	100	0	
4/8/2020 11:00	8.5	15	22	NNW (327)	100	0	
4/8/2020 12:00	10.4	17	25	WNW (303)	97	0	
4/8/2020 13:00	12.5	16	24	W (280)	92	0	
4/8/2020 14:00	14.4	19	31	NW (312)	64	0	
4/8/2020 15:00	14.8	20	31	NW (314)	58	0	
4/8/2020 16:00	15.4	13	24	N (354)	54	0	
4/8/2020 17:00	15.4	10	16	NNE (29)	55	0	
4/8/2020 18:00	15	8	12	ENE (62)	55	0	
4/8/2020 19:00	13.7	10	14	ESE (108)	69	0	
4/8/2020 20:00	12.1	16	23	SE (139)	88	0	
4/8/2020 21:00	10.5	15	25	SSE (152)	91	0	
4/8/2020 22:00	9.7	10	24	NW (316)	100	0.2	
4/8/2020 23:00	9.6	8	21	WNW (303)	100	1.4	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/9/2020 0:00	9.2	8	22	WSW (239)	100	1.4	
4/9/2020 1:00	9	6	10	SW (235)	100	1.4	
4/9/2020 2:00	7.9	16	63	NNW (335)	100	1.2	
4/9/2020 3:00	3.2	28	44	NNE (12)	100	0.8	
4/9/2020 4:00	2.9	26	44	N (354)	100	0.8	
4/9/2020 5:00	2.9	22	35	NW (318)	94	0.4	
4/9/2020 6:00	2.3	19	35	NNW (336)	90	0.4	
4/9/2020 7:00	2.2	12	20	NW (307)	92	0	
4/9/2020 8:00	2.7	14	23	WSW (253)	89	0	8
4/9/2020 9:00	4.4	20	36	WNW (292)	86	0	
4/9/2020 10:00	5.6	26	40	NW (308)	74	0	
4/9/2020 11:00	6.6	29	44	NW (310)	67	0	
4/9/2020 12:00	6.7	31	50	W (266)	64	0	
4/9/2020 13:00	6	27	41	WNW (298)	70	0	
4/9/2020 14:00	6.8	28	42	NNW (331)	58	0	
4/9/2020 15:00	3.1	26	47	WNW (293)	100	0.2	
4/9/2020 16:00	2.2	28	57	W (263)	100	0.2	
4/9/2020 17:00	1.5	23	38	WNW (291)	100	0.2	
4/9/2020 18:00	2.9	28	54	NW (311)	87	0.4	
4/9/2020 19:00	1.4	28	47	WNW (290)	99	0.2	
4/9/2020 20:00	1.9	22	40	WNW (284)	88	0.2	
4/9/2020 21:00	1.8	22	35	W (265)	82	0.2	
4/9/2020 22:00	1.8	25	38	W (280)	79	0.2	
4/9/2020 23:00	1.6	26	40	WNW (283)	80	0	
4/10/2020 0:00	1.5	35	51	NW (304)	76	0.2	
4/10/2020 1:00	1.1	35	50	NW (309)	75	0	
4/10/2020 2:00	0.3	32	47	NW (304)	98	0	
4/10/2020 3:00	0	36	53	NW (304)	100	0.2	
4/10/2020 4:00	0.4	36	51	NW (307)	79	0	
4/10/2020 5:00	0.4	37	54	WNW (299)	70	0	
4/10/2020 6:00	0.3	38	52	WNW (302)	69	0	
4/10/2020 7:00	0.2	36	50	NW (304)	68	0	
4/10/2020 8:00	0.4	39	54	NW (318)	69	0	2.2
4/10/2020 9:00	0.9	41	59	NNW (337)	64	0	
4/10/2020 10:00	1.6	42	57	NW (321)	59	0	
4/10/2020 11:00	2.2	40	61	NW (320)	58	0	
4/10/2020 12:00	2.7	41	55	NW (311)	56	0	
4/10/2020 13:00	3.2	35	50	NW (319)	53	0	
4/10/2020 14:00	3.8	31	46	NNW (331)	50	0	
4/10/2020 15:00	4.4	27	41	WNW (302)	50	0	
4/10/2020 16:00	4.8	26	42	WNW (301)	50	0	
4/10/2020 17:00	4.7	23	37	NW (320)	51	0	
4/10/2020 18:00	4	19	28	NW (322)	53	0	
4/10/2020 19:00	3.3	14	21	NW (311)	58	0	
4/10/2020 20:00	2.6	9	15	NW (304)	64	0	
4/10/2020 21:00	2.1	6	11	WNW (291)	65	0	
4/10/2020 22:00	2.6	18	31	NW (316)	65	0	
4/10/2020 23:00	2	18	29	NW (310)	63	0	
4/11/2020 0:00	2	20	31	W (281)	63	0	
4/11/2020 1:00	1.8	14	24	NNW (347)	66	0	
4/11/2020 2:00	1.2	12	18	NW (310)	65	0	
4/11/2020 3:00	0.6	8	16	NW (319)	70	0	
4/11/2020 4:00	-0.4	6	9	NW (312)	73	0	
4/11/2020 5:00	-1.3	5	8	WSW (245)	80	0	
4/11/2020 6:00	-1.4	6	9	SW (224)	79	0	
4/11/2020 7:00	-0.9	5	7	SSW (208)	75	0	
4/11/2020 8:00	0.9	7	13	SW (217)	72	0	0
4/11/2020 9:00	2.2	12	19	WSW (255)	65	0	
4/11/2020 10:00	3.9	14	26	SW (216)	60	0	
4/11/2020 11:00	5.3	15	26	SW (228)	52	0	
4/11/2020 12:00	7	16	27	SW (224)	53	0	
4/11/2020 13:00	8.3	17	31	SW (230)	49	0	
4/11/2020 14:00	8.8	18	32	SW (235)	45	0	
4/11/2020 15:00	9.8	14	28	S (173)	43	0	
4/11/2020 16:00	10.3	15	26	SSW (210)	43	0	
4/11/2020 17:00	11.1	16	27	SSW (205)	41	0	
4/11/2020 18:00	11	16	28	S (173)	46	0	
4/11/2020 19:00	9.6	17	28	SSE (167)	50	0	
4/11/2020 20:00	8.1	14	18	SE (145)	64	0	
4/11/2020 21:00	6.2	16	21	SE (140)	69	0	
4/11/2020 22:00	5.6	16	23	SSE (162)	70	0	
4/11/2020 23:00	5.9	12	17	SSE (156)	64	0	
4/12/2020 0:00	6.2	13	18	SSE (151)	64	0	
4/12/2020 1:00	5.5	16	20	SE (135)	70	0	
4/12/2020 2:00	5.2	17	21	SE (142)	72	0	
4/12/2020 3:00	6.2	17	22	S (169)	68	0	
4/12/2020 4:00	7.9	15	27	SSW (199)	62	0	
4/12/2020 5:00	8	14	22	SSE (152)	63	0	
4/12/2020 6:00	8.4	12	22	S (181)	64	0	
4/12/2020 7:00	7.8	14	24	SSE (158)	72	0	
4/12/2020 8:00	7.4	8	14	SE (139)	79	0	0
4/12/2020 9:00	7.9	14	21	SSE (163)	80	0	
4/12/2020 10:00	8.9	20	26	SSE (158)	75	0	
4/12/2020 11:00	10	18	26	SE (143)	70	0	
4/12/2020 12:00	11.9	18	27	SE (143)	63	0	
4/12/2020 13:00	13.7	22	36	SE (139)	59	0	
4/12/2020 14:00	15.1	25	37	SSE (154)	53	0	
4/12/2020 15:00	15.2	25	36	S (174)	48	0	
4/12/2020 16:00	14	23	37	SE (146)	58	0	
4/12/2020 17:00	11.4	21	34	SE (130)	76	0.2	
4/12/2020 18:00	11.4	23	30	SE (134)	74	0	
4/12/2020 19:00	11.7	25	33	SSE (148)	68	0	
4/12/2020 20:00	11.5	23	34	SE (142)	70	0	
4/12/2020 21:00	11.2	27	36	SSE (150)	73	0	
4/12/2020 22:00	11.7	29	42	SE (136)	76	0	
4/12/2020 23:00	11.7	23	33	SE (128)	84	0.8	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/13/2020 0:00	10.6	15	24	ESE (122)	88	0.4	
4/13/2020 1:00	10.4	20	29	ESE (105)	100	1.4	
4/13/2020 2:00	10.1	18	25	ESE (112)	100	0	
4/13/2020 3:00	10.3	20	27	ESE (123)	100	0	
4/13/2020 4:00	10.1	17	24	SE (136)	100	0	
4/13/2020 5:00	10.2	16	22	SE (134)	100	0.2	
4/13/2020 6:00	10.2	14	20	SE (141)	100	0	
4/13/2020 7:00	10.5	10	19	SW (220)	100	0	
4/13/2020 8:00	10.8	14	22	SW (236)	100	0	3
4/13/2020 9:00	11.3	17	26	WSW (246)	100	0	
4/13/2020 10:00	11.7	20	31	SW (227)	100	0	
4/13/2020 11:00	12.4	25	46	W (266)	100	0	
4/13/2020 12:00	9.5	37	53	WSW (255)	98	0	
4/13/2020 13:00	7.2	38	55	WSW (256)	90	0	
4/13/2020 14:00	8	39	60	W (278)	67	0	
4/13/2020 15:00	7.1	38	56	WSW (258)	62	0	
4/13/2020 16:00	5.9	35	54	WNW (292)	62	0	
4/13/2020 17:00	5.2	32	50	W (274)	62	0	
4/13/2020 18:00	4.9	30	49	WNW (290)	58	0	
4/13/2020 19:00	4.5	23	43	W (280)	59	0	
4/13/2020 20:00	4	21	34	W (265)	59	0	
4/13/2020 21:00	3.5	27	45	W (277)	56	0	
4/13/2020 22:00	2.9	22	42	W (275)	56	0	
4/13/2020 23:00	2.3	23	40	W (263)	62	0	
4/14/2020 0:00	1.2	21	32	WSW (249)	59	0	
4/14/2020 1:00	0.6	19	28	W (268)	59	0	
4/14/2020 2:00	-0.1	15	23	W (276)	62	0	
4/14/2020 3:00	-0.8	13	20	W (277)	64	0	
4/14/2020 4:00	-1.3	11	18	WSW (248)	64	0	
4/14/2020 5:00	-1.9	10	14	SW (223)	68	0	
4/14/2020 6:00	-2.2	7	12	SSW (200)	69	0	
4/14/2020 7:00	-1.3	9	15	SW (218)	65	0	
4/14/2020 8:00	0.5	11	18	SSW (211)	62	0	0
4/14/2020 9:00	2.1	12	24	SSW (200)	59	0	
4/14/2020 10:00	3.1	23	35	SW (232)	52	0	
4/14/2020 11:00	3.9	26	39	SW (236)	49	0	
4/14/2020 12:00	4.2	29	46	SW (234)	45	0	
4/14/2020 13:00	4.4	28	43	WSW (247)	41	0	
4/14/2020 14:00	4.6	26	42	SW (232)	38	0	
4/14/2020 15:00	4.2	25	47	W (266)	43	0	
4/14/2020 16:00	4.2	26	39	WSW (256)	44	0	
4/14/2020 17:00	4	24	38	WSW (250)	37	0	
4/14/2020 18:00	3.7	26	49	WSW (252)	37	0	
4/14/2020 19:00	2.7	24	37	W (262)	38	0	
4/14/2020 20:00	1.2	17	35	WNW (287)	42	0	
4/14/2020 21:00	-0.3	9	18	WSW (256)	49	0	
4/14/2020 22:00	-0.5	9	14	NW (305)	52	0	
4/14/2020 23:00	-0.6	10	18	WSW (255)	55	0	
4/15/2020 0:00	-1.5	12	17	W (261)	62	0	
4/15/2020 1:00	-2.1	10	14	SW (236)	67	0	
4/15/2020 2:00	-2.7	9	14	SW (223)	71	0	
4/15/2020 3:00	-3	6	12	SSW (195)	71	0	
4/15/2020 4:00	-3.1	8	13	WSW (243)	75	0	
4/15/2020 5:00	-3.2	10	15	SW (235)	76	0	
4/15/2020 6:00	-3.2	10	15	W (263)	80	0	
4/15/2020 7:00	-2.6	10	18	W (281)	80	0	
4/15/2020 8:00	-1.2	18	27	W (272)	76	0	-8.2
4/15/2020 9:00	-0.2	18	27	WSW (258)	67	0	
4/15/2020 10:00	0.4	15	24	WNW (293)	57	0	
4/15/2020 11:00	0.8	15	25	WNW (293)	49	0	
4/15/2020 12:00	0.7	10	22	N (353)	57	0	
4/15/2020 13:00	0.2	10	26	NW (317)	74	0	
4/15/2020 14:00	-0.8	12	20	NNW (332)	81	0	
4/15/2020 15:00	-0.5	13	22	NW (320)	81	0	
4/15/2020 16:00	0.1	13	23	NW (320)	76	0	
4/15/2020 17:00	1	17	27	NNW (328)	61	0	
4/15/2020 18:00	0.7	17	30	NW (321)	56	0	
4/15/2020 19:00	0.2	11	22	NW (316)	54	0	
4/15/2020 20:00	-1	5	11	N (0)	61	0	
4/15/2020 21:00	-1.9	2	4	SSW (208)	67	0	
4/15/2020 22:00	-2.1	5	7	SW (225)	66	0	
4/15/2020 23:00	-2.5	4	6	WSW (254)	71	0	
4/16/2020 0:00	-2.7	5	7	SSW (194)	70	0	
4/16/2020 1:00	-2.6	6	9	SSW (213)	70	0	
4/16/2020 2:00	-2.6	5	8	SW (227)	73	0	
4/16/2020 3:00	-3.4	5	11	ESE (122)	81	0	
4/16/2020 4:00	-3.4	5	7	SSW (196)	84	0	
4/16/2020 5:00	-3.8	7	12	WSW (238)	83	0	
4/16/2020 6:00	-4.9	9	12	WSW (258)	84	0	
4/16/2020 7:00	-3.9	10	16	WSW (257)	79	0	
4/16/2020 8:00	-1.7	15	25	WSW (254)	71	0	0
4/16/2020 9:00	-0.3	18	29	WSW (242)	56	0	
4/16/2020 10:00	0.8	22	35	WNW (292)	49	0	
4/16/2020 11:00	0.7	23	39	WSW (254)	49	0	
4/16/2020 12:00	1.6	25	40	WSW (248)	50	0	
4/16/2020 13:00	1.5	26	43	WNW (302)	62	0	
4/16/2020 14:00	1.6	18	33	W (280)	63	0	
4/16/2020 15:00	2.2	20	33	W (278)	51	0	
4/16/2020 16:00	2.6	21	37	NW (311)	42	0	
4/16/2020 17:00	3.1	17	30	W (270)	41	0	
4/16/2020 18:00	3.3	17	30	W (275)	37	0	
4/16/2020 19:00	3	19	37	W (263)	40	0	
4/16/2020 20:00	1.6	10	17	WSW (258)	48	0	
4/16/2020 21:00	0	11	15	W (263)	54	0	
4/16/2020 22:00	-0.5	11	16	W (268)	56	0	
4/16/2020 23:00	-0.5	12	18	W (260)	55	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/17/2020 0:00	-0.6	12	19	WSW (258)	56	0	
4/17/2020 1:00	-0.8	10	15	WSW (243)	57	0	
4/17/2020 2:00	-1.3	9	13	SW (235)	60	0	
4/17/2020 3:00	-1.4	8	12	SW (226)	61	0	
4/17/2020 4:00	-1.2	6	10	SW (232)	61	0	
4/17/2020 5:00	-1.2	6	10	SSW (198)	61	0	
4/17/2020 6:00	-0.9	7	11	S (169)	64	0	
4/17/2020 7:00	-0.6	9	12	S (170)	65	0	
4/17/2020 8:00	0.6	10	15	SSE (156)	65	0	0
4/17/2020 9:00	1.4	11	17	SSE (164)	61	0	
4/17/2020 10:00	2.4	14	22	SSW (209)	54	0	
4/17/2020 11:00	2.7	16	27	SW (222)	58	0	
4/17/2020 12:00	2.3	15	25	SSE (164)	77	0	
4/17/2020 13:00	1.3	13	23	S (178)	85	0	
4/17/2020 14:00	1.2	11	19	S (171)	90	0	
4/17/2020 15:00	1.1	13	20	SSE (153)	93	0.2	
4/17/2020 16:00	1.1	10	18	SE (136)	94	0	
4/17/2020 17:00	0.7	11	17	ESE (105)	100	0.4	
4/17/2020 18:00	0.5	11	22	ESE (120)	100	0	
4/17/2020 19:00	0.5	7	13	ENE (68)	100	0	
4/17/2020 20:00	0.2	5	7	NE (48)	100	0	
4/17/2020 21:00	-0.3	4	6	ENE (62)	100	0	
4/17/2020 22:00	-0.5	3	6	N (351)	100	0	
4/17/2020 23:00	-0.6	5	8	NNW (333)	100	0	
4/18/2020 0:00	-0.6	6	9	NW (326)	100	0	
4/18/2020 1:00	-0.6	4	6	NW (326)	100	0	
4/18/2020 2:00	-0.6	2	4	WNW (282)	100	0	
4/18/2020 3:00	-0.9	4	6	SSW (192)	100	0	
4/18/2020 4:00	-1.1	5	7	S (176)	100	0	
4/18/2020 5:00	-1.5	6	10	S (190)	100	0	
4/18/2020 6:00	-1.8	6	11	SW (233)	100	0	
4/18/2020 7:00	-1.8	8	12	SSW (212)	100	0	
4/18/2020 8:00	-0.6	9	15	SW (233)	100	0.2	0.8
4/18/2020 9:00	1.9	12	20	WSW (238)	100	0	
4/18/2020 10:00	4.1	14	21	SW (217)	88	0	
4/18/2020 11:00	6.4	16	29	SSW (209)	70	0	
4/18/2020 12:00	7.8	21	38	SW (231)	63	0	
4/18/2020 13:00	8.2	25	40	SW (226)	55	0	
4/18/2020 14:00	8.7	26	41	SW (227)	54	0	
4/18/2020 15:00	9.1	28	42	S (183)	52	0	
4/18/2020 16:00	9.6	26	46	SW (219)	48	0	
4/18/2020 17:00	10.2	26	43	SW (234)	47	0	
4/18/2020 18:00	10.4	26	43	SSW (212)	44	0	
4/18/2020 19:00	9.5	21	35	SW (226)	51	0	
4/18/2020 20:00	8.2	17	26	SSW (211)	56	0	
4/18/2020 21:00	7.2	16	26	SSW (198)	61	0	
4/18/2020 22:00	7.1	17	27	SSW (202)	62	0	
4/18/2020 23:00	6.6	17	30	S (191)	67	0	
4/19/2020 0:00	5.8	18	28	SSW (196)	70	0	
4/19/2020 1:00	5.7	18	28	SSW (197)	70	0	
4/19/2020 2:00	5.7	21	30	SSW (196)	71	0	
4/19/2020 3:00	5.3	21	32	SSW (202)	72	0	
4/19/2020 4:00	5.4	20	31	SW (216)	72	0	
4/19/2020 5:00	5.4	22	35	SSW (199)	72	0	
4/19/2020 6:00	5.2	21	32	SSW (194)	75	0	
4/19/2020 7:00	5.6	21	34	SW (218)	75	0	
4/19/2020 8:00	6.3	23	37	SW (221)	72	0	0
4/19/2020 9:00	6.9	23	39	SW (217)	75	0	
4/19/2020 10:00	7.5	21	34	WSW (238)	75	0.2	
4/19/2020 11:00	8.7	22	33	SW (226)	69	0	
4/19/2020 12:00	10.3	18	27	SW (228)	64	0	
4/19/2020 13:00	12.4	16	29	WSW (256)	60	0	
4/19/2020 14:00	12.1	20	48	NNW (338)	70	0	
4/19/2020 15:00	5.5	34	52	N (4)	72	0	
4/19/2020 16:00	5.6	33	49	N (0)	64	0	
4/19/2020 17:00	5.9	30	42	N (8)	58	0	
4/19/2020 18:00	4.7	32	46	N (1)	57	0	
4/19/2020 19:00	3.2	31	47	N (8)	55	0	
4/19/2020 20:00	2.2	26	40	N (2)	50	0	
4/19/2020 21:00	1.5	20	35	NE (41)	56	0	
4/19/2020 22:00	0.5	12	21	NE (43)	55	0	
4/19/2020 23:00	-0.2	11	19	NE (34)	49	0	
4/20/2020 0:00	-1.2	11	17	NNE (27)	56	0	
4/20/2020 1:00	-1.9	8	11	ESE (113)	58	0	
4/20/2020 2:00	-2.1	7	11	SE (138)	63	0	
4/20/2020 3:00	-2.9	5	10	WNW (284)	71	0	
4/20/2020 4:00	-3.9	4	7	W (260)	71	0	
4/20/2020 5:00	-4.2	2	4	WSW (254)	75	0	
4/20/2020 6:00	-4.4	0	2	ESE (107)	77	0	
4/20/2020 7:00	-2.1	0	2	NW (321)	74	0	
4/20/2020 8:00	0.6	7	15	SE (125)	57	0	0.2
4/20/2020 9:00	1.9	11	16	ESE (122)	49	0	
4/20/2020 10:00	3.4	9	17	S (176)	45	0	
4/20/2020 11:00	5.2	10	19	SSW (200)	42	0	
4/20/2020 12:00	6.7	14	26	SW (230)	39	0	
4/20/2020 13:00	8.1	17	28	SSW (210)	38	0	
4/20/2020 14:00	9.1	20	32	SSW (207)	41	0	
4/20/2020 15:00	9.5	21	36	SSW (211)	41	0	
4/20/2020 16:00	9.3	22	35	SW (220)	38	0	
4/20/2020 17:00	9.2	21	36	S (186)	38	0	
4/20/2020 18:00	8.8	21	32	SSE (164)	38	0	
4/20/2020 19:00	8.6	21	30	SE (145)	39	0	
4/20/2020 20:00	7.2	22	29	SSE (154)	46	0	
4/20/2020 21:00	6	24	33	SSE (149)	51	0	
4/20/2020 22:00	5.3	26	32	SSE (151)	57	0	
4/20/2020 23:00	5.1	25	32	SSE (149)	61	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/21/2020 0:00	6.7	24	33	SSE (165)	60	0	
4/21/2020 1:00	8.9	29	65	SW (228)	63	0	
4/21/2020 2:00	8.2	25	38	SW (233)	71	0	
4/21/2020 3:00	7.9	31	45	WNW (286)	79	0	
4/21/2020 4:00	3.7	37	70	NW (310)	88	0	
4/21/2020 5:00	2.1	30	46	NW (316)	87	0	
4/21/2020 6:00	1.2	29	48	NW (305)	100	0	
4/21/2020 7:00	1.3	27	38	NW (315)	80	0	
4/21/2020 8:00	1.6	29	40	NW (306)	70	0	0
4/21/2020 9:00	1.8	30	50	WNW (288)	73	0	
4/21/2020 10:00	0.5	32	52	NW (309)	74	0	
4/21/2020 11:00	0.9	34	53	WNW (295)	76	0.2	
4/21/2020 12:00	1.3	34	55	NW (305)	78	0	
4/21/2020 13:00	2.1	41	69	WNW (300)	61	0	
4/21/2020 14:00	2.1	41	57	NW (308)	62	0	
4/21/2020 15:00	2.5	39	60	NW (304)	62	0	
4/21/2020 16:00	2.3	36	58	NW (322)	65	0	
4/21/2020 17:00	2.4	44	62	WNW (299)	57	0	
4/21/2020 18:00	2.3	41	58	NW (316)	46	0	
4/21/2020 19:00	1.9	37	51	WNW (289)	44	0	
4/21/2020 20:00	1.2	31	46	NW (310)	47	0	
4/21/2020 21:00	1	27	44	NW (316)	50	0	
4/21/2020 22:00	0.6	32	43	NW (309)	50	0	
4/21/2020 23:00	-0.4	23	36	NW (319)	58	0	
4/22/2020 0:00	-1	21	35	NW (320)	58	0	
4/22/2020 1:00	-1.2	26	40	NW (306)	54	0	
4/22/2020 2:00	-1.8	19	28	WNW (301)	57	0	
4/22/2020 3:00	-2.4	17	23	NW (311)	62	0	
4/22/2020 4:00	-2.7	17	24	WNW (297)	61	0	
4/22/2020 5:00	-3.3	13	20	WNW (291)	66	0	
4/22/2020 6:00	-3.3	16	23	WNW (288)	64	0	
4/22/2020 7:00	-2.6	19	32	WNW (300)	64	0	
4/22/2020 8:00	-1.6	25	35	WNW (292)	56	0	0.2
4/22/2020 9:00	-0.9	25	37	WNW (299)	51	0	
4/22/2020 10:00	-0.3	25	37	NW (306)	46	0	
4/22/2020 11:00	0.4	22	35	NW (321)	42	0	
4/22/2020 12:00	1.2	22	34	NNW (327)	39	0	
4/22/2020 13:00	2.4	18	35	W (262)	38	0	
4/22/2020 14:00	3.2	16	26	WSW (237)	36	0	
4/22/2020 15:00	3.2	13	28	NW (313)	36	0	
4/22/2020 16:00	3.5	9	20	WNW (289)	37	0	
4/22/2020 17:00	3.6	9	15	SW (233)	34	0	
4/22/2020 18:00	3.4	6	13	NNW (333)	37	0	
4/22/2020 19:00	3.2	4	9	N (351)	38	0	
4/22/2020 20:00	2.7	5	10	NE (48)	46	0	
4/22/2020 21:00	2.1	9	15	ESE (112)	47	0	
4/22/2020 22:00	2.2	10	16	ESE (116)	48	0	
4/22/2020 23:00	1.7	9	14	SSE (152)	72	0	
4/23/2020 0:00	1	11	16	SE (145)	78	0	
4/23/2020 1:00	1	11	17	SE (128)	83	0	
4/23/2020 2:00	0.9	12	17	ESE (119)	90	0	
4/23/2020 3:00	0.8	14	20	ENE (77)	100	0.4	
4/23/2020 4:00	0.9	13	19	E (96)	100	0.2	
4/23/2020 5:00	0.9	17	28	E (86)	100	0.2	
4/23/2020 6:00	0.9	20	30	ESE (102)	73	0	
4/23/2020 7:00	0.9	24	33	E (95)	70	0	
4/23/2020 8:00	0.7	18	30	ESE (119)	76	0.8	1.6
4/23/2020 9:00	0.5	21	31	ESE (110)	79	0.2	
4/23/2020 10:00	0.6	27	38	ESE (102)	78	0	
4/23/2020 11:00	1.4	24	33	ENE (71)	77	0	
4/23/2020 12:00	1.9	25	37	ESE (103)	82	0.2	
4/23/2020 13:00	2.7	23	30	ESE (109)	81	0	
4/23/2020 14:00	3.3	19	26	E (92)	84	0.2	
4/23/2020 15:00	3.6	14	23	E (83)	87	1	
4/23/2020 16:00	3.7	14	22	E (100)	100	1.4	
4/23/2020 17:00	3.7	17	25	E (82)	100	0	
4/23/2020 18:00	3.8	14	22	E (79)	100	0	
4/23/2020 19:00	3.2	15	22	ENE (64)	100	0.4	
4/23/2020 20:00	2.3	19	28	E (83)	100	0.4	
4/23/2020 21:00	2.4	13	17	E (85)	100	0	
4/23/2020 22:00	2.5	11	18	ENE (68)	100	0	
4/23/2020 23:00	2.5	8	14	ENE (77)	99	0	
4/24/2020 0:00	2.5	6	11	NE (55)	97	0	
4/24/2020 1:00	2.5	7	11	NNE (30)	97	0	
4/24/2020 2:00	2.5	9	12	NNE (27)	97	0	
4/24/2020 3:00	2.3	10	17	NNE (27)	94	0	
4/24/2020 4:00	2.4	10	15	NNE (30)	91	0	
4/24/2020 5:00	2.7	8	13	NNE (15)	87	0	
4/24/2020 6:00	2.8	7	10	NNW (329)	87	0	
4/24/2020 7:00	3.2	8	12	NNE (33)	85	0	
4/24/2020 8:00	4.1	8	12	NNE (26)	81	0	3.8
4/24/2020 9:00	5.4	9	14	NNE (17)	75	0	
4/24/2020 10:00	6.6	10	16	NW (311)	71	0	
4/24/2020 11:00	7.1	11	16	NW (308)	74	0	
4/24/2020 12:00	8	11	18	NW (326)	73	0	
4/24/2020 13:00	9	11	20	NW (319)	71	0	
4/24/2020 14:00	9.7	12	21	NW (306)	66	0	
4/24/2020 15:00	9.2	15	25	NW (304)	62	0	
4/24/2020 16:00	7.5	17	24	NW (321)	62	0	
4/24/2020 17:00	7.6	15	23	NNW (337)	61	0	
4/24/2020 18:00	7.6	13	19	N (7)	58	0	
4/24/2020 19:00	6.8	11	18	NW (313)	59	0	
4/24/2020 20:00	5.6	11	16	NNW (336)	65	0	
4/24/2020 21:00	4.4	7	11	NW (323)	75	0	
4/24/2020 22:00	3.3	7	11	NW (316)	84	0	
4/24/2020 23:00	2.5	5	9	WNW (282)	88	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/25/2020 0:00	1.9	5	8	NNW (333)	99	0	
4/25/2020 1:00	1.7	4	9	E (88)	100	0	
4/25/2020 2:00	1	6	10	ESE (106)	100	0	
4/25/2020 3:00	0.9	5	7	E (90)	100	0	
4/25/2020 4:00	1.1	10	17	ESE (110)	100	0	
4/25/2020 5:00	2.7	15	19	E (100)	97	0	
4/25/2020 6:00	1.8	12	16	E (92)	75	0	
4/25/2020 7:00	2.9	11	17	ESE (108)	69	0	
4/25/2020 8:00	5.2	13	19	ESE (108)	58	0	0
4/25/2020 9:00	7.5	13	19	E (94)	48	0	
4/25/2020 10:00	9.2	13	23	E (79)	44	0	
4/25/2020 11:00	10.6	12	20	ENE (68)	41	0	
4/25/2020 12:00	11.8	11	24	ENE (68)	41	0	
4/25/2020 13:00	13	12	22	ENE (63)	41	0	
4/25/2020 14:00	14.2	13	36	E (80)	42	0	
4/25/2020 15:00	14.2	14	25	W (270)	44	0	
4/25/2020 16:00	12.1	20	29	N (0)	43	0	
4/25/2020 17:00	11.4	22	32	N (354)	41	0	
4/25/2020 18:00	10.3	16	24	N (5)	42	0	
4/25/2020 19:00	9.3	12	19	NNW (345)	52	0	
4/25/2020 20:00	7.7	10	17	N (5)	61	0	
4/25/2020 21:00	7.1	10	14	NE (49)	67	0	
4/25/2020 22:00	8.4	13	21	ENE (63)	63	0	
4/25/2020 23:00	9.3	16	23	ENE (57)	35	0	
4/26/2020 0:00	9.1	17	31	NE (47)	31	0	
4/26/2020 1:00	8.7	18	24	NE (39)	33	0	
4/26/2020 2:00	8.5	19	26	NE (47)	36	0	
4/26/2020 3:00	8.3	19	30	NE (47)	50	0	
4/26/2020 4:00	7.3	24	35	ENE (61)	63	0	
4/26/2020 5:00	6.6	17	28	ENE (63)	64	0	
4/26/2020 6:00	6.9	16	27	NE (44)	62	0.2	
4/26/2020 7:00	7.4	21	38	ENE (62)	60	0	
4/26/2020 8:00	7	24	36	E (82)	65	0.6	0.8
4/26/2020 9:00	8	29	41	NE (53)	71	0	
4/26/2020 10:00	9.4	33	44	ENE (60)	68	0	
4/26/2020 11:00	10.7	27	40	NNE (33)	62	0	
4/26/2020 12:00	11.8	31	44	NNE (33)	52	0	
4/26/2020 13:00	11.8	34	48	NE (49)	51	0	
4/26/2020 14:00	12.6	30	46	NE (42)	45	0	
4/26/2020 15:00	13.2	32	50	NNE (28)	41	0	
4/26/2020 16:00	13.7	32	45	NE (38)	38	0	
4/26/2020 17:00	13.8	36	55	NE (34)	33	0	
4/26/2020 18:00	12.5	20	38	NNW (340)	43	0	
4/26/2020 19:00	11	18	28	N (6)	45	0	
4/26/2020 20:00	8.7	12	23	NE (35)	56	0	
4/26/2020 21:00	6.7	9	13	ENE (74)	61	0	
4/26/2020 22:00	6.5	9	11	E (92)	68	0	
4/26/2020 23:00	5.3	11	14	SE (127)	84	0	
4/27/2020 0:00	4.6	7	13	SE (134)	92	0	
4/27/2020 1:00	3.2	5	9	W (275)	100	0	
4/27/2020 2:00	2	6	10	WNW (284)	100	0	
4/27/2020 3:00	1.5	6	9	W (278)	100	0	
4/27/2020 4:00	1.5	4	8	NW (306)	100	0	
4/27/2020 5:00	1	3	5	W (266)	100	0	
4/27/2020 6:00	0.6	5	8	W (266)	100	0	
4/27/2020 7:00	2.5	3	5	WSW (254)	100	0	
4/27/2020 8:00	5.8	4	8	W (273)	90	0	0
4/27/2020 9:00	9.3	7	13	WSW (237)	68	0	
4/27/2020 10:00	10.9	7	15	SSW (205)	49	0	
4/27/2020 11:00	12.2	8	19	WSW (241)	40	0	
4/27/2020 12:00	13	10	22	WNW (287)	36	0	
4/27/2020 13:00	13.7	11	25	WNW (287)	38	0	
4/27/2020 14:00	14	9	26	SW (223)	35	0	
4/27/2020 15:00	14.9	14	28	SSE (164)	34	0	
4/27/2020 16:00	14.9	13	27	SW (224)	35	0	
4/27/2020 17:00	14.5	14	22	S (180)	34	0	
4/27/2020 18:00	13.5	17	30	SSE (164)	42	0	
4/27/2020 19:00	11.9	19	30	SSE (149)	44	0	
4/27/2020 20:00	10.9	17	23	SSE (154)	50	0	
4/27/2020 21:00	10.3	16	28	SSE (154)	49	0	
4/27/2020 22:00	9.3	11	14	SSE (154)	59	0	
4/27/2020 23:00	8.6	16	21	ESE (122)	63	0	
4/28/2020 0:00	8.4	18	29	SE (144)	66	0	
4/28/2020 1:00	8.8	25	31	SSE (156)	66	0	
4/28/2020 2:00	9	25	35	SE (143)	68	0	
4/28/2020 3:00	8.9	21	33	SSE (152)	70	0	
4/28/2020 4:00	9.1	21	30	SSE (151)	70	0	
4/28/2020 5:00	8.8	21	28	SSE (150)	69	0	
4/28/2020 6:00	8.8	18	25	SSE (148)	73	0	
4/28/2020 7:00	8.8	19	27	SSE (151)	74	0	
4/28/2020 8:00	10.2	19	29	SSE (162)	74	0	0
4/28/2020 9:00	11.5	21	29	S (181)	67	0	
4/28/2020 10:00	13.2	17	27	SSW (211)	65	0	
4/28/2020 11:00	14.4	14	22	SSE (159)	61	0	
4/28/2020 12:00	15.3	12	23	SW (215)	60	0	
4/28/2020 13:00	16.4	11	22	S (190)	55	0	
4/28/2020 14:00	17.2	14	27	S (173)	52	0	
4/28/2020 15:00	17.4	17	30	SE (128)	53	0	
4/28/2020 16:00	17.3	24	33	SE (132)	54	0	
4/28/2020 17:00	16.8	26	36	SE (136)	54	0	
4/28/2020 18:00	15.6	25	33	SE (140)	64	0	
4/28/2020 19:00	13.8	22	32	ESE (119)	69	0	
4/28/2020 20:00	12.5	21	33	ESE (111)	71	0	
4/28/2020 21:00	11.3	22	29	ESE (105)	71	0	
4/28/2020 22:00	11	22	35	E (97)	70	0	
4/28/2020 23:00	11.3	26	35	ESE (107)	66	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
4/29/2020 0:00	11.4	29	41	ESE (112)	66	0	
4/29/2020 1:00	10.9	27	38	ESE (112)	80	0.8	
4/29/2020 2:00	9.7	31	42	ESE (116)	89	1.2	
4/29/2020 3:00	9.5	31	40	ESE (104)	88	0	
4/29/2020 4:00	9.6	30	41	ESE (112)	93	0	
4/29/2020 5:00	9.8	30	42	E (92)	90	0	
4/29/2020 6:00	9.7	30	42	SE (125)	89	0	
4/29/2020 7:00	10.1	30	40	ESE (102)	88	0	
4/29/2020 8:00	10.9	28	42	SE (136)	88	0.6	2.6
4/29/2020 9:00	11.1	27	39	ESE (110)	93	0.8	
4/29/2020 10:00	11.4	26	37	ESE (123)	96	1	
4/29/2020 11:00	12.3	32	46	SSE (156)	88	0.4	
4/29/2020 12:00	12.2	27	38	ESE (108)	100	1	
4/29/2020 13:00	13.6	31	43	SE (126)	100	0.2	
4/29/2020 14:00	14.4	29	42	SE (129)	84	0.2	
4/29/2020 15:00	15	28	39	SE (127)	79	0	
4/29/2020 16:00	15.4	28	38	SE (140)	73	0	
4/29/2020 17:00	15.4	25	35	SE (128)	73	0	
4/29/2020 18:00	16.3	25	35	SE (146)	72	0	
4/29/2020 19:00	17.2	27	46	SSE (151)	65	0	
4/29/2020 20:00	16.1	39	55	SSE (154)	77	0	
4/29/2020 21:00	13.8	34	49	SSE (147)	83	0.2	
4/29/2020 22:00	13.8	21	31	SE (144)	83	0	
4/29/2020 23:00	13.6	19	27	SSE (152)	84	0	
4/30/2020 0:00	12.8	20	32	SSE (159)	100	0.4	
4/30/2020 1:00	12	18	24	SSW (203)	100	0.4	
4/30/2020 2:00	11.5	13	22	SSE (157)	100	0.2	
4/30/2020 3:00	11.3	16	24	SSE (150)	100	0	
4/30/2020 4:00	11	15	21	SSE (152)	100	0	
4/30/2020 5:00	11	18	27	SSE (157)	100	0	
4/30/2020 6:00	10.8	18	30	SSE (156)	100	0	
4/30/2020 7:00	10.7	16	24	SSE (152)	100	0	
4/30/2020 8:00	10.8	17	23	SSE (150)	100	0.2	5
4/30/2020 9:00	11.4	20	28	SSE (160)	100	0.2	
4/30/2020 10:00	11.9	19	27	S (170)	100	0	
4/30/2020 11:00	12.7	20	31	SSE (151)	97	0	
4/30/2020 12:00	13	20	28	SSE (148)	84	0	
4/30/2020 13:00	13	15	24	SSW (211)	86	0	
4/30/2020 14:00	11.2	11	24	SW (236)	100	1	
4/30/2020 15:00	11.5	10	17	SSW (207)	98	0	
4/30/2020 16:00	11.6	11	20	SSW (213)	86	0	
4/30/2020 17:00	10.7	17	27	SW (220)	90	0	
4/30/2020 18:00	10	14	23	SW (226)	84	0	
4/30/2020 19:00	9.6	11	20	SW (215)	80	0	
4/30/2020 20:00	8.7	8	20	N (350)	100	0	
4/30/2020 21:00	6	11	18	NNW (334)	100	0.2	
4/30/2020 22:00	5.2	18	27	NW (322)	100	0.2	
4/30/2020 23:00	4.6	21	28	NW (319)	100	0.2	
5/1/2020 0:00	4.5	21	29	NW (324)	100	0.2	
5/1/2020 1:00	4.4	21	33	NW (321)	100	0.4	
5/1/2020 2:00	4.3	21	34	NNW (330)	100	0.4	
5/1/2020 3:00	4.3	20	29	NNW (328)	100	0.2	
5/1/2020 4:00	4.1	23	35	NW (308)	100	0	
5/1/2020 5:00	4	21	34	N (350)	100	0	
5/1/2020 6:00	4.1	19	30	NNW (332)	100	0	
5/1/2020 7:00	4.3	18	28	NNW (330)	100	0	
5/1/2020 8:00	4.5	18	30	NNW (343)	100	0.2	3.2
5/1/2020 9:00	4.8	19	30	NW (326)	100	0	
5/1/2020 10:00	5	22	35	NW (323)	100	0	
5/1/2020 11:00	4.5	26	39	NNW (334)	100	0	
5/1/2020 12:00	5.3	24	33	NW (317)	100	0	
5/1/2020 13:00	6.1	23	38	NNW (339)	100	0	
5/1/2020 14:00	7.6	21	32	NNW (338)	100	0	
5/1/2020 15:00	9.5	19	30	NW (321)	93	0	
5/1/2020 16:00	10.1	25	34	NW (325)	77	0	
5/1/2020 17:00	10.5	21	29	NW (322)	65	0	
5/1/2020 18:00	10.8	17	24	NW (325)	56	0	
5/1/2020 19:00	10.1	14	23	NNW (337)	54	0	
5/1/2020 20:00	8.4	6	11	NNW (344)	59	0	
5/1/2020 21:00	7.5	2	4	ENE (71)	70	0	
5/1/2020 22:00	6.3	1	5	S (172)	77	0	
5/1/2020 23:00	5.8	3	8	ESE (121)	79	0	
5/2/2020 0:00	5.8	8	10	SE (126)	73	0	
5/2/2020 1:00	6.9	8	11	SE (129)	61	0	
5/2/2020 2:00	5.6	6	10	SSW (194)	79	0	
5/2/2020 3:00	6.3	7	11	S (174)	64	0	
5/2/2020 4:00	7	6	10	SSE (156)	60	0	
5/2/2020 5:00	7.2	11	15	S (173)	63	0	
5/2/2020 6:00	7.5	12	16	SSE (165)	61	0	
5/2/2020 7:00	8.5	13	18	S (172)	62	0	
5/2/2020 8:00	9.6	16	24	SSE (168)	62	0	0
5/2/2020 9:00	12.4	20	30	SSE (163)	54	0	
5/2/2020 10:00	14.7	22	35	SSE (152)	50	0	
5/2/2020 11:00	16.2	28	44	SSW (192)	52	0	
5/2/2020 12:00	16.6	30	42	S (170)	51	0	
5/2/2020 13:00	18.3	34	49	SSE (165)	48	0	
5/2/2020 14:00	19.2	32	55	SSW (202)	47	0	
5/2/2020 15:00	19.2	29	50	S (182)	50	0	
5/2/2020 16:00	20	26	43	SSW (211)	50	0	
5/2/2020 17:00	20.6	20	36	SSW (196)	54	0	
5/2/2020 18:00	20.9	14	25	SSE (168)	55	0	
5/2/2020 19:00	20.9	13	26	SW (220)	59	0	
5/2/2020 20:00	19.6	11	18	WNW (303)	65	0	
5/2/2020 21:00	19.1	16	27	W (281)	64	0	
5/2/2020 22:00	18.5	15	25	WNW (292)	60	0	
5/2/2020 23:00	16.5	15	33	NE (37)	64	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/3/2020 0:00	13.4	5	13	W (260)	70	0	
5/3/2020 1:00	12.4	5	8	SSW (192)	71	0	
5/3/2020 2:00	12.1	8	11	S (178)	75	0	
5/3/2020 3:00	12.8	9	12	SW (218)	74	0	
5/3/2020 4:00	13.2	9	14	S (190)	74	0	
5/3/2020 5:00	12.5	10	16	SW (225)	77	0	
5/3/2020 6:00	11.9	9	13	WSW (249)	79	0	
5/3/2020 7:00	12.6	10	16	WNW (292)	79	0	
5/3/2020 8:00	13.9	26	44	NW (314)	70	0	0
5/3/2020 9:00	12.8	21	37	N (6)	71	0	
5/3/2020 10:00	13.9	19	28	NNW (348)	54	0	
5/3/2020 11:00	15	19	29	NW (315)	47	0	
5/3/2020 12:00	15.8	15	24	N (354)	46	0	
5/3/2020 13:00	16.6	10	23	NNW (342)	44	0	
5/3/2020 14:00	18	10	22	NNW (332)	42	0	
5/3/2020 15:00	19.4	13	21	SSW (213)	40	0	
5/3/2020 16:00	20.8	12	30	NNW (330)	36	0	
5/3/2020 17:00	21	20	34	WNW (282)	32	0	
5/3/2020 18:00	20.2	17	26	W (279)	33	0	
5/3/2020 19:00	17.7	20	56	NNW (337)	54	0	
5/3/2020 20:00	10.6	23	38	N (7)	61	0	
5/3/2020 21:00	8.8	21	33	WNW (303)	66	0	
5/3/2020 22:00	7.9	18	31	NNW (342)	70	0	
5/3/2020 23:00	6.9	24	38	NNW (331)	67	0	
5/4/2020 0:00	5.9	22	36	NW (326)	69	0	
5/4/2020 1:00	5.1	19	34	N (2)	72	0	
5/4/2020 2:00	4.6	19	35	NNW (330)	77	0	
5/4/2020 3:00	4.2	23	36	NW (323)	82	0	
5/4/2020 4:00	4.1	26	38	NNW (344)	100	0	
5/4/2020 5:00	3.9	25	36	NW (316)	100	0	
5/4/2020 6:00	3.8	23	38	NNW (333)	100	0	
5/4/2020 7:00	3.8	23	42	NW (311)	86	0	
5/4/2020 8:00	4	23	40	NNW (348)	84	0	0
5/4/2020 9:00	4	26	40	NNW (329)	83	0	
5/4/2020 10:00	3.9	26	39	NNW (346)	82	0	
5/4/2020 11:00	3.8	27	37	NW (321)	76	0	
5/4/2020 12:00	3.9	28	44	NW (321)	75	0	
5/4/2020 13:00	4.2	27	40	N (1)	73	0	
5/4/2020 14:00	4.9	28	48	NNW (339)	69	0	
5/4/2020 15:00	5.5	25	40	NW (323)	62	0	
5/4/2020 16:00	5.9	24	36	NNW (345)	62	0	
5/4/2020 17:00	5.8	23	38	NW (310)	60	0	
5/4/2020 18:00	5.3	22	34	N (349)	52	0	
5/4/2020 19:00	4.4	17	26	WNW (302)	54	0	
5/4/2020 20:00	2.7	13	20	NNW (331)	68	0	
5/4/2020 21:00	1.5	9	15	NW (309)	78	0	
5/4/2020 22:00	0.7	8	16	N (6)	79	0	
5/4/2020 23:00	1.1	11	17	N (1)	79	0	
5/5/2020 0:00	1.2	8	14	N (6)	80	0	
5/5/2020 1:00	0.3	7	11	N (1)	81	0	
5/5/2020 2:00	-0.1	6	10	NE (37)	81	0	
5/5/2020 3:00	0	5	11	ENE (66)	74	0	
5/5/2020 4:00	-0.3	2	6	ESE (114)	72	0	
5/5/2020 5:00	-1.1	1	4	NNE (23)	80	0	
5/5/2020 6:00	-1.1	5	7	NNE (15)	78	0	
5/5/2020 7:00	1	7	13	E (87)	73	0	
5/5/2020 8:00	3	13	20	ESE (103)	71	0	0
5/5/2020 9:00	4.3	13	19	E (89)	59	0	
5/5/2020 10:00	5.5	10	18	ENE (74)	51	0	
5/5/2020 11:00	6.9	11	17	ENE (59)	45	0	
5/5/2020 12:00	7.6	9	18	N (354)	39	0	
5/5/2020 13:00	8.5	11	21	N (3)	37	0	
5/5/2020 14:00	8.6	16	27	N (1)	46	0	
5/5/2020 15:00	7.3	20	32	N (0)	51	0	
5/5/2020 16:00	6.2	21	34	NW (313)	53	0	
5/5/2020 17:00	6.3	25	38	N (11)	54	0	
5/5/2020 18:00	6	19	30	N (354)	59	0	
5/5/2020 19:00	5.2	18	30	NNW (328)	62	0	
5/5/2020 20:00	4.4	14	22	N (1)	69	0	
5/5/2020 21:00	4.3	18	30	NNW (348)	70	0	
5/5/2020 22:00	4.3	12	21	N (350)	74	0	
5/5/2020 23:00	4.2	13	24	NNW (345)	77	0	
5/6/2020 0:00	4.2	14	22	NNE (17)	77	0	
5/6/2020 1:00	4.3	13	18	NNE (18)	70	0	
5/6/2020 2:00	3.8	12	18	N (9)	54	0	
5/6/2020 3:00	3.7	13	19	N (9)	52	0	
5/6/2020 4:00	3.4	10	17	N (4)	59	0	
5/6/2020 5:00	3	11	16	N (3)	70	0	
5/6/2020 6:00	2.5	9	14	N (1)	70	0	
5/6/2020 7:00	2.7	10	21	N (8)	59	0	
5/6/2020 8:00	4.6	16	23	N (5)	54	0	0
5/6/2020 9:00	6.9	14	22	N (0)	48	0	
5/6/2020 10:00	8.6	14	27	N (349)	44	0	
5/6/2020 11:00	9.8	17	28	N (350)	41	0	
5/6/2020 12:00	10.1	21	32	N (0)	41	0	
5/6/2020 13:00	10.2	25	37	NNW (336)	34	0	
5/6/2020 14:00	10.4	26	40	NNW (339)	28	0	
5/6/2020 15:00	10.6	27	41	N (2)	28	0	
5/6/2020 16:00	10.6	25	40	NW (322)	26	0	
5/6/2020 17:00	10.5	23	36	NNW (345)	26	0	
5/6/2020 18:00	10.1	19	30	N (8)	26	0	
5/6/2020 19:00	9.7	14	23	NW (309)	28	0	
5/6/2020 20:00	7.7	13	22	NW (313)	37	0	
5/6/2020 21:00	5.1	7	12	W (271)	43	0	
5/6/2020 22:00	4.1	6	8	W (281)	44	0	
5/6/2020 23:00	3.5	2	6	N (353)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/7/2020 0:00	3.2	2	4	WSW (248)	60	0	
5/7/2020 1:00	3.3	5	9	SW (224)	63	0	
5/7/2020 2:00	2.3	10	14	SW (229)	57	0	
5/7/2020 3:00	2.5	8	14	SW (218)	54	0	
5/7/2020 4:00	3.6	7	12	SSW (204)	48	0	
5/7/2020 5:00	3.8	7	12	SSW (211)	46	0	
5/7/2020 6:00	3.9	7	12	S (191)	54	0	
5/7/2020 7:00	5.1	9	20	NNE (14)	63	0	
5/7/2020 8:00	6.3	5	11	WSW (238)	62	0	0
5/7/2020 9:00	8.1	9	22	SSW (196)	60	0	
5/7/2020 10:00	10.9	13	21	SW (232)	49	0	
5/7/2020 11:00	12.4	19	38	NW (309)	49	0	
5/7/2020 12:00	10	26	38	NW (304)	49	0	
5/7/2020 13:00	8.7	28	46	NNW (337)	57	0	
5/7/2020 14:00	8.9	33	50	NW (326)	54	0	
5/7/2020 15:00	8.8	33	53	N (4)	47	0	
5/7/2020 16:00	9.2	30	47	N (9)	41	0	
5/7/2020 17:00	9.2	29	42	NNE (14)	36	0	
5/7/2020 18:00	8.3	25	38	NNE (20)	36	0	
5/7/2020 19:00	6.8	24	33	N (4)	40	0	
5/7/2020 20:00	5.3	17	30	N (0)	48	0	
5/7/2020 21:00	4.6	14	25	N (354)	54	0	
5/7/2020 22:00	3.5	12	22	N (10)	60	0	
5/7/2020 23:00	2.1	6	11	NNW (337)	66	0	
5/8/2020 0:00	1.8	14	21	N (10)	71	0	
5/8/2020 1:00	1.2	8	16	NNE (19)	75	0	
5/8/2020 2:00	1.2	7	15	NNW (340)	76	0	
5/8/2020 3:00	0.9	5	10	NW (315)	69	0	
5/8/2020 4:00	-0.1	1	5	WSW (256)	72	0	
5/8/2020 5:00	0.3	5	12	NW (314)	70	0	
5/8/2020 6:00	1	14	26	N (352)	68	0	
5/8/2020 7:00	0.9	14	30	NNW (343)	69	0	
5/8/2020 8:00	1.5	16	29	NW (315)	58	0	0
5/8/2020 9:00	1.7	17	27	NNW (336)	59	0	
5/8/2020 10:00	1.6	20	33	NW (305)	62	0	
5/8/2020 11:00	2.1	23	39	NNW (335)	57	0	
5/8/2020 12:00	2.4	27	43	N (5)	54	0	
5/8/2020 13:00	2.4	27	46	N (349)	57	0	
5/8/2020 14:00	2.8	28	44	NNE (16)	49	0	
5/8/2020 15:00	2.6	29	48	NNE (15)	52	0	
5/8/2020 16:00	2.3	27	42	NNW (343)	52	0	
5/8/2020 17:00	2	29	48	N (352)	44	0	
5/8/2020 18:00	1.5	27	40	N (0)	43	0	
5/8/2020 19:00	0.8	22	38	NNW (346)	48	0	
5/8/2020 20:00	0	20	33	NNW (339)	53	0	
5/8/2020 21:00	-0.3	17	28	NW (311)	55	0	
5/8/2020 22:00	0	19	30	NW (310)	58	0	
5/8/2020 23:00	-1.2	18	28	NW (307)	90	0	
5/9/2020 0:00	-2.2	9	18	W (280)	87	0	
5/9/2020 1:00	-0.9	18	30	WNW (303)	85	0	
5/9/2020 2:00	-1	19	26	WNW (300)	61	0	
5/9/2020 3:00	-1.6	15	23	WNW (293)	57	0	
5/9/2020 4:00	-1.4	13	20	WNW (295)	57	0	
5/9/2020 5:00	-1	19	28	WNW (295)	60	0	
5/9/2020 6:00	-1.3	16	25	W (270)	64	0	
5/9/2020 7:00	-1.3	14	27	W (281)	76	0	
5/9/2020 8:00	-0.8	19	34	WNW (289)	77	0	0
5/9/2020 9:00	0.2	26	44	NW (310)	67	0	
5/9/2020 10:00	1.3	31	43	NW (314)	61	0	
5/9/2020 11:00	2.4	32	48	NW (306)	53	0	
5/9/2020 12:00	3.2	29	44	WNW (298)	52	0	
5/9/2020 13:00	3.2	25	45	NW (305)	62	0	
5/9/2020 14:00	4.9	26	41	WNW (287)	51	0	
5/9/2020 15:00	5.9	25	42	W (261)	45	0	
5/9/2020 16:00	6.2	22	38	WSW (248)	45	0	
5/9/2020 17:00	7.1	21	36	W (264)	42	0	
5/9/2020 18:00	7.8	17	32	NW (316)	39	0	
5/9/2020 19:00	7.4	14	24	NW (321)	47	0	
5/9/2020 20:00	5.3	12	18	N (6)	62	0	
5/9/2020 21:00	2.6	8	13	NE (53)	69	0	
5/9/2020 22:00	1.4	8	9	SE (142)	71	0	
5/9/2020 23:00	1.3	9	14	S (169)	72	0	
5/10/2020 0:00	1.1	11	16	S (178)	71	0	
5/10/2020 1:00	2.1	11	19	SW (214)	67	0	
5/10/2020 2:00	2.6	9	17	SW (231)	60	0	
5/10/2020 3:00	3.2	10	16	SW (231)	60	0	
5/10/2020 4:00	4.4	8	16	W (264)	60	0	
5/10/2020 5:00	4.8	5	10	NW (323)	54	0	
5/10/2020 6:00	4.3	2	6	SSE (168)	59	0	
5/10/2020 7:00	4.8	4	8	SE (145)	63	0	
5/10/2020 8:00	5.9	9	17	SE (144)	60	0	0
5/10/2020 9:00	7.5	11	22	SW (233)	56	0	
5/10/2020 10:00	9.1	19	32	SW (221)	47	0	
5/10/2020 11:00	9.7	19	29	SSW (208)	52	0	
5/10/2020 12:00	11.4	20	35	SW (231)	51	0	
5/10/2020 13:00	13.3	23	42	SW (215)	45	0	
5/10/2020 14:00	12.2	23	39	WSW (238)	57	0	
5/10/2020 15:00	11.1	13	19	NW (304)	56	0	
5/10/2020 16:00	9.9	8	17	NNW (347)	61	0	
5/10/2020 17:00	10.7	6	12	NW (314)	60	0	
5/10/2020 18:00	9.9	13	26	NNW (328)	71	0	
5/10/2020 19:00	6.5	16	25	N (10)	84	0	
5/10/2020 20:00	5.9	19	29	N (353)	86	0	
5/10/2020 21:00	5.6	18	28	NNW (341)	88	0	
5/10/2020 22:00	4.7	14	22	NW (322)	100	0.4	
5/10/2020 23:00	3.9	16	26	NW (314)	100	0.6	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/11/2020 0:00	2.3	22	33	N (0)	100	0.8	
5/11/2020 1:00	1.1	21	33	NNW (341)	100	1.2	
5/11/2020 2:00	1.6	23	37	NNW (338)	100	6	
5/11/2020 3:00	1.7	20	40	NNW (342)	100	0.8	
5/11/2020 4:00	2.2	25	38	NNW (336)	100	0.8	
5/11/2020 5:00	2.2	28	38	NW (314)	100	0.4	
5/11/2020 6:00	2.6	27	36	NW (322)	100	0.2	
5/11/2020 7:00	2.8	23	33	NW (315)	100	0	
5/11/2020 8:00	3.6	22	33	NW (317)	93	0	11.2
5/11/2020 9:00	3.8	25	33	NW (309)	88	0	
5/11/2020 10:00	3.9	25	33	NW (320)	83	0	
5/11/2020 11:00	4	26	36	NW (323)	81	0	
5/11/2020 12:00	3.9	24	33	NW (315)	74	0	
5/11/2020 13:00	4.2	22	32	NNW (343)	72	0	
5/11/2020 14:00	4.1	18	28	NW (320)	75	0	
5/11/2020 15:00	3.4	14	23	NW (304)	80	0	
5/11/2020 16:00	3.1	13	23	NNW (348)	83	0	
5/11/2020 17:00	3	11	20	NNW (331)	83	0	
5/11/2020 18:00	2.9	9	14	NW (313)	82	0	
5/11/2020 19:00	3.2	5	12	WSW (258)	82	0	
5/11/2020 20:00	3	4	8	SW (216)	84	0	
5/11/2020 21:00	2	5	9	N (350)	100	0	
5/11/2020 22:00	1.7	6	10	NNE (18)	99	0	
5/11/2020 23:00	0.7	4	6	NNE (31)	100	0	
5/12/2020 0:00	0.5	3	4	NNW (332)	100	0	
5/12/2020 1:00	-0.4	3	5	SW (215)	100	0	
5/12/2020 2:00	-0.8	5	8	WSW (253)	100	0	
5/12/2020 3:00	-1.2	4	6	SW (230)	100	0	
5/12/2020 4:00	-1.2	8	10	SW (221)	100	0	
5/12/2020 5:00	-1.4	7	10	WSW (243)	100	0	
5/12/2020 6:00	-1.1	6	9	SSW (211)	100	0	
5/12/2020 7:00	0	6	9	SSW (201)	100	0	
5/12/2020 8:00	2	8	14	SSW (213)	78	0	0
5/12/2020 9:00	3.8	8	13	SW (218)	68	0	
5/12/2020 10:00	5.8	12	27	SW (231)	52	0	
5/12/2020 11:00	7.6	14	26	W (264)	54	0	
5/12/2020 12:00	8.2	18	31	NW (310)	53	0	
5/12/2020 13:00	9	23	37	NW (317)	47	0	
5/12/2020 14:00	9.5	28	42	NW (321)	36	0	
5/12/2020 15:00	9.9	27	40	NNW (336)	33	0	
5/12/2020 16:00	10.2	24	36	NNW (340)	32	0	
5/12/2020 17:00	9.3	25	42	N (354)	43	0	
5/12/2020 18:00	7	24	34	N (8)	57	0	
5/12/2020 19:00	5.1	23	34	N (0)	55	0	
5/12/2020 20:00	3.7	18	28	NNW (348)	57	0	
5/12/2020 21:00	2.8	13	19	N (5)	57	0	
5/12/2020 22:00	2.1	7	13	NNW (340)	61	0	
5/12/2020 23:00	1.5	4	7	NW (321)	68	0	
5/13/2020 0:00	0.5	5	9	W (264)	69	0	
5/13/2020 1:00	-0.4	5	8	WNW (294)	75	0	
5/13/2020 2:00	-1	1	3	N (3)	79	0	
5/13/2020 3:00	-1.2	2	3	NNE (13)	79	0	
5/13/2020 4:00	-1.7	2	6	NE (40)	82	0	
5/13/2020 5:00	-1.5	4	7	SE (136)	82	0	
5/13/2020 6:00	-1.4	1	2	NW (312)	82	0	
5/13/2020 7:00	2	0	2	N (9)	76	0	
5/13/2020 8:00	3.7	4	10	NW (308)	65	0	0
5/13/2020 9:00	5.4	6	15	N (2)	62	0	
5/13/2020 10:00	6.8	5	13	N (6)	53	0	
5/13/2020 11:00	7.6	5	16	NE (34)	46	0	
5/13/2020 12:00	8.7	4	11	S (183)	45	0	
5/13/2020 13:00	9.7	5	12	NE (56)	44	0	
5/13/2020 14:00	10.6	7	18	S (177)	43	0	
5/13/2020 15:00	11.5	6	13	N (350)	39	0	
5/13/2020 16:00	12.6	7	20	E (84)	38	0	
5/13/2020 17:00	13.1	6	19	SE (144)	38	0	
5/13/2020 18:00	13.1	6	15	SW (228)	34	0	
5/13/2020 19:00	12.4	11	26	SSE (150)	41	0	
5/13/2020 20:00	10	16	21	SSE (156)	48	0	
5/13/2020 21:00	8.3	17	22	SE (142)	52	0	
5/13/2020 22:00	7.1	15	23	SE (135)	58	0	
5/13/2020 23:00	6.3	16	23	SE (124)	61	0	
5/14/2020 0:00	5.6	16	21	ESE (105)	67	0	
5/14/2020 1:00	6	18	26	ESE (118)	64	0	
5/14/2020 2:00	6.1	20	27	ESE (123)	56	0	
5/14/2020 3:00	6.3	22	30	ESE (120)	55	0	
5/14/2020 4:00	6.7	20	25	SE (126)	48	0	
5/14/2020 5:00	7.1	20	27	SE (128)	45	0	
5/14/2020 6:00	7.4	22	31	SE (124)	47	0	
5/14/2020 7:00	7.9	21	28	ESE (117)	48	0	
5/14/2020 8:00	8.9	20	28	SE (127)	51	0	0
5/14/2020 9:00	9.2	20	29	SE (130)	58	0	
5/14/2020 10:00	10	22	28	SE (135)	55	0	
5/14/2020 11:00	10.7	23	31	SE (134)	66	0.2	
5/14/2020 12:00	9.4	21	30	SE (138)	76	1	
5/14/2020 13:00	9.2	19	28	S (175)	84	2	
5/14/2020 14:00	9.5	23	31	SE (139)	100	1.6	
5/14/2020 15:00	10.1	22	32	SE (146)	100	0.4	
5/14/2020 16:00	11.5	17	26	SSE (160)	100	0	
5/14/2020 17:00	12.5	16	22	SE (146)	100	0	
5/14/2020 18:00	13.5	12	17	SSE (162)	100	0	
5/14/2020 19:00	13.8	10	17	SSE (152)	100	0	
5/14/2020 20:00	13.9	13	18	S (170)	100	0	
5/14/2020 21:00	14.1	14	22	SSW (200)	100	0	
5/14/2020 22:00	14.2	12	19	SSW (213)	100	0.2	
5/14/2020 23:00	14.1	12	20	SW (225)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/15/2020 0:00	14.4	12	20	SW (221)	100	0	
5/15/2020 1:00	14.4	13	22	S (172)	100	0	
5/15/2020 2:00	14.8	11	18	S (172)	100	0	
5/15/2020 3:00	15	10	17	SSW (201)	100	0	
5/15/2020 4:00	15.2	12	21	S (185)	100	0	
5/15/2020 5:00	15.4	13	25	SSW (202)	100	0.2	
5/15/2020 6:00	15.2	11	20	SW (226)	100	1	
5/15/2020 7:00	15	8	15	SSE (159)	100	4.8	
5/15/2020 8:00	15.6	16	28	SSE (153)	100	0	6.2
5/15/2020 9:00	16.9	20	30	SSE (155)	100	0	
5/15/2020 10:00	19.2	23	40	SW (231)	100	0.2	
5/15/2020 11:00	19.8	32	46	SW (231)	97	0	
5/15/2020 12:00	19.7	25	41	SW (232)	92	0	
5/15/2020 13:00	18.3	17	31	WNW (294)	100	0.4	
5/15/2020 14:00	17.4	15	24	WNW (290)	100	0	
5/15/2020 15:00	17.4	15	31	NW (304)	100	0	
5/15/2020 16:00	14.7	20	30	NNW (338)	100	0.6	
5/15/2020 17:00	15	19	28	NNE (21)	100	0	
5/15/2020 18:00	16.2	10	23	NNE (12)	94	0	
5/15/2020 19:00	16.4	6	10	WNW (298)	82	0	
5/15/2020 20:00	15.2	7	11	NNW (334)	85	0	
5/15/2020 21:00	12.7	10	18	NNW (347)	100	0	
5/15/2020 22:00	10.1	6	12	NW (308)	100	0	
5/15/2020 23:00	9.3	6	8	NNE (16)	100	0	
5/16/2020 0:00	8.7	7	12	NNE (28)	100	0	
5/16/2020 1:00	8.5	8	19	NNW (335)	100	0	
5/16/2020 2:00	8.1	7	13	N (5)	100	0	
5/16/2020 3:00	7.5	8	13	N (350)	100	0	
5/16/2020 4:00	7.9	7	13	N (352)	100	0	
5/16/2020 5:00	8.3	7	14	NNW (334)	100	0	
5/16/2020 6:00	7.8	7	12	N (7)	100	0	
5/16/2020 7:00	7.2	8	13	NNE (26)	100	0	
5/16/2020 8:00	8.5	9	13	NE (50)	100	0	1.2
5/16/2020 9:00	10.6	10	15	ENE (76)	100	0	
5/16/2020 10:00	13.5	9	16	ENE (73)	100	0	
5/16/2020 11:00	15.8	7	13	NNE (26)	89	0	
5/16/2020 12:00	17.6	7	15	ESE (104)	76	0	
5/16/2020 13:00	18.5	7	15	NNE (29)	67	0	
5/16/2020 14:00	18.9	9	16	E (79)	64	0	
5/16/2020 15:00	18.6	12	20	NNW (332)	75	0	
5/16/2020 16:00	18.4	13	19	NNW (341)	73	0	
5/16/2020 17:00	17.4	13	22	NW (317)	71	0	
5/16/2020 18:00	16.6	10	15	N (5)	69	0	
5/16/2020 19:00	15.5	9	13	N (4)	74	0	
5/16/2020 20:00	13.4	7	12	N (352)	77	0	
5/16/2020 21:00	12.4	2	6	NW (323)	82	0	
5/16/2020 22:00	11.2	4	7	N (351)	90	0	
5/16/2020 23:00	10.4	3	8	NE (46)	100	0	
5/17/2020 0:00	10.8	10	16	ENE (78)	100	0	
5/17/2020 1:00	12.4	16	22	E (90)	82	0	
5/17/2020 2:00	12	18	23	E (83)	78	0	
5/17/2020 3:00	11.1	17	23	E (86)	79	0	
5/17/2020 4:00	10.5	19	24	E (95)	79	0	
5/17/2020 5:00	10.4	18	24	E (81)	78	0	
5/17/2020 6:00	10.8	22	29	E (83)	75	0	
5/17/2020 7:00	11.5	24	32	E (84)	71	0	
5/17/2020 8:00	12.8	26	34	ENE (75)	66	0	0
5/17/2020 9:00	13.2	25	35	E (90)	63	0	
5/17/2020 10:00	13.7	25	40	E (90)	63	0	
5/17/2020 11:00	14.4	27	38	ENE (67)	65	0	
5/17/2020 12:00	14.8	23	34	ENE (69)	70	0	
5/17/2020 13:00	14.1	21	34	ENE (61)	78	0.2	
5/17/2020 14:00	13.5	21	36	E (95)	82	0.6	
5/17/2020 15:00	13.7	32	44	ENE (70)	81	0.2	
5/17/2020 16:00	13.3	32	47	ENE (72)	81	0.2	
5/17/2020 17:00	12.5	24	34	E (86)	90	0.4	
5/17/2020 18:00	11.7	22	36	ENE (62)	98	2.6	
5/17/2020 19:00	11.4	24	31	ENE (58)	100	0.4	
5/17/2020 20:00	11.4	28	40	ENE (72)	100	0.2	
5/17/2020 21:00	11.5	32	47	ENE (71)	100	0.2	
5/17/2020 22:00	11.5	35	46	E (90)	100	0	
5/17/2020 23:00	11.8	35	50	E (87)	100	0.2	
5/18/2020 0:00	12.2	37	53	E (84)	100	0	
5/18/2020 1:00	12.2	35	49	ENE (69)	100	0.2	
5/18/2020 2:00	11.9	35	50	E (83)	100	1.6	
5/18/2020 3:00	11.5	33	46	E (85)	100	6.4	
5/18/2020 4:00	11.6	38	54	E (101)	100	1	
5/18/2020 5:00	11.6	38	50	E (88)	100	0.4	
5/18/2020 6:00	11.7	36	49	E (85)	100	0.2	
5/18/2020 7:00	11.9	33	49	E (100)	100	0	
5/18/2020 8:00	12.3	34	45	ESE (105)	100	0	15
5/18/2020 9:00	12.3	32	45	E (97)	100	0.6	
5/18/2020 10:00	12.4	29	46	E (93)	100	0.8	
5/18/2020 11:00	12.7	30	44	E (96)	100	0.8	
5/18/2020 12:00	12.7	27	37	ENE (77)	100	1	
5/18/2020 13:00	13.3	32	45	E (89)	100	4.8	
5/18/2020 14:00	13.9	36	55	E (79)	100	0.8	
5/18/2020 15:00	14.1	36	54	E (89)	100	0.2	
5/18/2020 16:00	13.5	33	50	E (87)	100	0.4	
5/18/2020 17:00	13	38	53	E (85)	100	0	
5/18/2020 18:00	12.6	35	50	ENE (67)	100	0.2	
5/18/2020 19:00	12.5	37	48	E (83)	100	0.6	
5/18/2020 20:00	12.6	37	49	E (95)	100	0.6	
5/18/2020 21:00	12.6	34	47	E (84)	100	0.4	
5/18/2020 22:00	13.1	33	48	E (81)	100	0.6	
5/18/2020 23:00	13.5	35	48	E (80)	98	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/19/2020 0:00	13.6	36	50	ENE (72)	97	0	
5/19/2020 1:00	13.6	31	42	E (92)	93	0	
5/19/2020 2:00	13.5	29	41	E (89)	92	0	
5/19/2020 3:00	13.2	26	40	E (86)	95	0	
5/19/2020 4:00	12.7	26	37	E (86)	96	0	
5/19/2020 5:00	12.4	29	39	E (81)	89	0	
5/19/2020 6:00	12.2	27	37	E (85)	78	0	
5/19/2020 7:00	12.1	26	35	E (86)	77	0	
5/19/2020 8:00	12.3	25	34	E (80)	79	0	11.8
5/19/2020 9:00	12.1	24	36	ENE (68)	84	0.4	
5/19/2020 10:00	14.2	24	34	E (99)	84	0.2	
5/19/2020 11:00	16.4	25	34	E (91)	72	0.2	
5/19/2020 12:00	16.4	24	34	ENE (65)	71	0	
5/19/2020 13:00	16.2	26	36	ENE (68)	70	0	
5/19/2020 14:00	17.1	29	40	E (83)	68	0	
5/19/2020 15:00	18.8	27	37	E (84)	66	0	
5/19/2020 16:00	19.1	26	36	ENE (76)	62	0	
5/19/2020 17:00	19.5	27	38	ESE (103)	58	0	
5/19/2020 18:00	18.8	27	38	ENE (74)	58	0	
5/19/2020 19:00	17.4	22	35	ENE (72)	62	0	
5/19/2020 20:00	16.1	24	40	E (81)	60	0	
5/19/2020 21:00	14.8	22	32	ENE (63)	61	0	
5/19/2020 22:00	14.2	22	32	E (90)	61	0	
5/19/2020 23:00	13.4	18	27	E (83)	61	0	
5/20/2020 0:00	12.6	16	21	ENE (77)	62	0	
5/20/2020 1:00	12.2	16	22	E (95)	64	0	
5/20/2020 2:00	11.5	14	21	ESE (104)	68	0	
5/20/2020 3:00	11.7	14	20	ESE (120)	64	0	
5/20/2020 4:00	11.2	13	18	E (90)	65	0	
5/20/2020 5:00	10.1	12	17	ESE (113)	69	0	
5/20/2020 6:00	10.9	16	22	SE (128)	66	0	
5/20/2020 7:00	12.2	18	26	ESE (115)	60	0	
5/20/2020 8:00	14.1	22	35	ESE (104)	57	0	0.8
5/20/2020 9:00	14.9	27	37	SE (142)	52	0	
5/20/2020 10:00	15.5	27	35	SE (137)	47	0	
5/20/2020 11:00	16	25	37	SE (142)	45	0	
5/20/2020 12:00	16.4	25	37	SE (140)	42	0	
5/20/2020 13:00	16.8	23	34	SSE (148)	41	0	
5/20/2020 14:00	17.3	25	35	SSE (150)	40	0	
5/20/2020 15:00	18.2	23	32	SSE (147)	36	0	
5/20/2020 16:00	19	26	35	SE (133)	32	0	
5/20/2020 17:00	19.6	24	37	SE (133)	32	0	
5/20/2020 18:00	19.9	22	30	SE (130)	29	0	
5/20/2020 19:00	19.5	16	27	SE (130)	36	0	
5/20/2020 20:00	17.2	8	12	SE (124)	54	0	
5/20/2020 21:00	14.3	9	14	E (98)	56	0	
5/20/2020 22:00	13	14	17	E (91)	60	0	
5/20/2020 23:00	11.4	13	16	E (96)	64	0	
5/21/2020 0:00	10.8	11	14	E (82)	65	0	
5/21/2020 1:00	10.1	12	16	ESE (116)	69	0	
5/21/2020 2:00	9.9	12	15	ESE (107)	68	0	
5/21/2020 3:00	10	13	17	ESE (115)	68	0	
5/21/2020 4:00	9.9	14	19	ESE (118)	63	0	
5/21/2020 5:00	9.8	16	21	ESE (116)	62	0	
5/21/2020 6:00	10	17	23	SE (124)	62	0	
5/21/2020 7:00	11.6	17	25	ESE (113)	57	0	
5/21/2020 8:00	13.4	22	30	SE (124)	51	0	0
5/21/2020 9:00	15.1	20	28	SE (138)	48	0	
5/21/2020 10:00	16.2	20	27	ESE (123)	45	0	
5/21/2020 11:00	17.5	17	24	SSE (159)	47	0	
5/21/2020 12:00	18.8	15	24	SSE (148)	48	0	
5/21/2020 13:00	20	15	26	SE (144)	50	0	
5/21/2020 14:00	20.6	17	26	S (171)	51	0	
5/21/2020 15:00	21.2	15	26	SE (136)	52	0	
5/21/2020 16:00	21.6	14	21	ESE (120)	53	0	
5/21/2020 17:00	22.2	17	27	SE (131)	51	0	
5/21/2020 18:00	22.2	18	26	SE (140)	48	0	
5/21/2020 19:00	21.5	14	21	SE (144)	49	0	
5/21/2020 20:00	20.2	7	10	SSE (156)	57	0	
5/21/2020 21:00	18.4	4	7	SE (127)	62	0	
5/21/2020 22:00	16.4	2	4	ESE (119)	70	0	
5/21/2020 23:00	16.2	7	12	SSW (200)	71	0	
5/22/2020 0:00	15.4	9	14	S (183)	73	0	
5/22/2020 1:00	13.4	4	9	ESE (111)	82	0	
5/22/2020 2:00	12.5	3	6	E (84)	79	0	
5/22/2020 3:00	11.8	5	9	ESE (113)	84	0	
5/22/2020 4:00	12.4	10	15	SE (134)	76	0	
5/22/2020 5:00	11.8	7	12	SSE (161)	81	0	
5/22/2020 6:00	12.3	5	10	NE (34)	77	0	
5/22/2020 7:00	14.5	1	4	NW (312)	77	0	
5/22/2020 8:00	16.9	2	6	W (271)	77	0	0
5/22/2020 9:00	18	3	8	ENE (62)	75	0	
5/22/2020 10:00	19.1	3	10	ESE (111)	72	0	
5/22/2020 11:00	19.7	5	11	N (1)	71	0	
5/22/2020 12:00	21	5	15	N (9)	68	0	
5/22/2020 13:00	21.7	9	19	ENE (65)	63	0	
5/22/2020 14:00	22	8	25	SE (139)	64	0	
5/22/2020 15:00	22.3	8	19	W (275)	64	0	
5/22/2020 16:00	20.2	13	20	NW (314)	73	0.2	
5/22/2020 17:00	19.5	11	21	SW (221)	76	0	
5/22/2020 18:00	18	9	18	S (173)	89	0.2	
5/22/2020 19:00	17.6	9	14	SSE (168)	95	0.2	
5/22/2020 20:00	17.4	4	9	S (190)	93	0	
5/22/2020 21:00	17	1	5	ENE (58)	100	0	
5/22/2020 22:00	16.4	2	5	WNW (282)	100	0	
5/22/2020 23:00	16	2	4	ENE (60)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/23/2020 0:00	15.7	2	5	SW (223)	100	0	
5/23/2020 1:00	15.6	5	9	SSW (204)	100	0	
5/23/2020 2:00	15.3	4	8	NNW (329)	100	0	
5/23/2020 3:00	15.1	1	3	SSW (198)	100	0	
5/23/2020 4:00	14.9	5	9	S (186)	100	0	
5/23/2020 5:00	14.4	5	9	SSW (210)	100	0	
5/23/2020 6:00	14.2	6	13	W (263)	100	0	
5/23/2020 7:00	14.6	4	7	W (270)	100	0	
5/23/2020 8:00	15.4	7	15	WSW (253)	100	0	0.6
5/23/2020 9:00	16	7	15	W (266)	100	0	
5/23/2020 10:00	17.3	5	14	N (8)	100	0	
5/23/2020 11:00	19.4	7	17	NNW (337)	99	0	
5/23/2020 12:00	20.9	4	10	SSE (147)	84	0	
5/23/2020 13:00	22.2	4	15	SE (136)	70	0	
5/23/2020 14:00	23.3	11	22	SE (143)	68	0	
5/23/2020 15:00	23.7	12	25	SSW (199)	63	0	
5/23/2020 16:00	23.6	14	23	SE (132)	63	0	
5/23/2020 17:00	23.8	16	25	SSE (159)	62	0	
5/23/2020 18:00	22.8	18	25	SSE (151)	65	0	
5/23/2020 19:00	21.3	19	27	SE (143)	69	0	
5/23/2020 20:00	19.8	14	23	SE (143)	74	0	
5/23/2020 21:00	18.4	9	11	SE (131)	80	0	
5/23/2020 22:00	17.6	11	16	ESE (120)	82	0	
5/23/2020 23:00	16.6	12	16	ESE (122)	88	0	
5/24/2020 0:00	15.7	13	17	ESE (122)	95	0	
5/24/2020 1:00	15.4	16	22	ESE (114)	100	0	
5/24/2020 2:00	15.3	17	22	ESE (121)	100	0	
5/24/2020 3:00	15.3	18	25	SE (126)	100	0	
5/24/2020 4:00	15.4	18	24	SE (128)	100	0	
5/24/2020 5:00	15.9	20	25	SE (130)	100	0	
5/24/2020 6:00	16.5	23	31	SE (145)	100	0	
5/24/2020 7:00	17.6	26	35	SE (145)	100	0	
5/24/2020 8:00	19.6	20	30	SSE (168)	79	0	0
5/24/2020 9:00	21.7	16	28	S (182)	72	0	
5/24/2020 10:00	23	16	27	SSE (160)	68	0	
5/24/2020 11:00	24.3	17	28	SE (135)	65	0	
5/24/2020 12:00	26.1	23	33	SSE (161)	62	0	
5/24/2020 13:00	27.5	21	32	SSE (158)	59	0	
5/24/2020 14:00	28.1	19	33	S (182)	56	0	
5/24/2020 15:00	28.3	21	35	SW (216)	55	0	
5/24/2020 16:00	28.4	21	35	SSW (203)	54	0	
5/24/2020 17:00	28	22	35	SSW (211)	56	0	
5/24/2020 18:00	27.8	19	36	SSW (198)	57	0	
5/24/2020 19:00	27.2	16	29	SSW (210)	60	0	
5/24/2020 20:00	26.1	15	24	SSE (155)	63	0	
5/24/2020 21:00	24.9	15	25	S (184)	66	0	
5/24/2020 22:00	24	14	23	SW (216)	69	0	
5/24/2020 23:00	22.9	13	20	SSW (207)	74	0	
5/25/2020 0:00	21.9	9	16	SSW (205)	76	0	
5/25/2020 1:00	21.1	7	17	NNW (335)	83	0	
5/25/2020 2:00	20.6	4	13	SSW (212)	84	0	
5/25/2020 3:00	20.3	6	9	WSW (242)	86	0	
5/25/2020 4:00	19.8	4	9	SW (225)	90	0	
5/25/2020 5:00	19.4	4	7	S (170)	100	0	
5/25/2020 6:00	18.5	3	6	SSE (162)	100	0	
5/25/2020 7:00	21	1	5	NNE (31)	100	0	
5/25/2020 8:00	23.5	6	11	SE (125)	76	0	0
5/25/2020 9:00	25.3	12	17	SE (142)	69	0	
5/25/2020 10:00	27.3	7	14	W (271)	60	0	
5/25/2020 11:00	28.5	6	15	ENE (71)	58	0	
5/25/2020 12:00	29.5	8	18	SSE (165)	55	0	
5/25/2020 13:00	30	13	27	SW (214)	54	0	
5/25/2020 14:00	29.9	18	30	SW (233)	54	0	
5/25/2020 15:00	30.3	15	25	S (170)	47	0	
5/25/2020 16:00	30.4	14	27	SW (226)	47	0	
5/25/2020 17:00	30.4	12	22	SSW (202)	45	0	
5/25/2020 18:00	30.1	13	25	S (179)	43	0	
5/25/2020 19:00	29.3	12	22	S (182)	47	0	
5/25/2020 20:00	27.6	9	14	SSW (196)	55	0	
5/25/2020 21:00	25.5	9	12	SSE (150)	61	0	
5/25/2020 22:00	24.1	13	20	SSE (162)	68	0	
5/25/2020 23:00	22.7	6	15	SSE (162)	73	0	
5/26/2020 0:00	21.7	7	11	SSE (162)	77	0	
5/26/2020 1:00	20.4	5	10	ESE (116)	84	0	
5/26/2020 2:00	20.1	8	12	SSE (148)	85	0	
5/26/2020 3:00	19.9	6	11	E (99)	82	0	
5/26/2020 4:00	18.6	6	15	ESE (120)	92	0	
5/26/2020 5:00	19	10	15	SE (130)	86	0	
5/26/2020 6:00	19.1	5	13	ESE (122)	91	0	
5/26/2020 7:00	21.2	5	9	E (100)	81	0	
5/26/2020 8:00	23.3	5	10	SE (139)	73	0	0
5/26/2020 9:00	25.2	6	10	SSE (150)	72	0	
5/26/2020 10:00	26.9	6	13	SE (138)	63	0	
5/26/2020 11:00	28.5	9	19	SW (230)	59	0	
5/26/2020 12:00	29.7	11	23	SSW (197)	51	0	
5/26/2020 13:00	30.5	13	26	WSW (248)	49	0	
5/26/2020 14:00	31.3	15	26	S (183)	45	0	
5/26/2020 15:00	31.6	17	29	SSW (211)	41	0	
5/26/2020 16:00	31.7	15	28	SW (216)	39	0	
5/26/2020 17:00	31.2	18	28	S (184)	41	0	
5/26/2020 18:00	30.7	16	29	S (170)	43	0	
5/26/2020 19:00	30.2	14	23	SSE (164)	47	0	
5/26/2020 20:00	28.7	10	15	SSE (148)	56	0	
5/26/2020 21:00	25.9	8	10	SE (140)	67	0	
5/26/2020 22:00	24.4	7	9	SE (136)	71	0	
5/26/2020 23:00	23.4	8	13	SE (128)	74	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/27/2020 0:00	22.6	11	14	SE (125)	75	0	
5/27/2020 1:00	21.5	14	19	SE (126)	80	0	
5/27/2020 2:00	20.9	16	21	SE (129)	80	0	
5/27/2020 3:00	20.5	16	20	SE (130)	78	0	
5/27/2020 4:00	19.9	14	17	ESE (120)	76	0	
5/27/2020 5:00	19.4	14	17	SE (130)	76	0	
5/27/2020 6:00	19.6	17	22	ESE (120)	74	0	
5/27/2020 7:00	20.3	21	27	SSE (156)	73	0	
5/27/2020 8:00	22.1	15	27	S (170)	69	0	0
5/27/2020 9:00	24.7	15	21	SSE (166)	65	0	
5/27/2020 10:00	26.9	14	24	SSE (158)	58	0	
5/27/2020 11:00	26.4	17	25	SSE (158)	58	0	
5/27/2020 12:00	26.6	16	26	S (173)	57	0	
5/27/2020 13:00	28	16	26	SSE (162)	52	0	
5/27/2020 14:00	28.8	22	33	SSE (147)	49	0	
5/27/2020 15:00	28.4	27	39	SE (142)	49	0	
5/27/2020 16:00	26.7	26	35	SE (138)	51	0	
5/27/2020 17:00	26.5	25	37	SE (130)	51	0	
5/27/2020 18:00	26.1	23	34	SSE (147)	56	0	
5/27/2020 19:00	26.1	18	25	SE (140)	56	0	
5/27/2020 20:00	25.2	14	20	SSE (154)	60	0	
5/27/2020 21:00	23.3	12	17	SE (131)	68	0	
5/27/2020 22:00	22	13	17	ESE (118)	71	0	
5/27/2020 23:00	21.3	16	20	SE (130)	71	0	
5/28/2020 0:00	20.5	17	23	ESE (123)	72	0	
5/28/2020 1:00	20.2	15	20	SE (127)	74	0	
5/28/2020 2:00	20.4	17	20	SE (144)	75	0	
5/28/2020 3:00	19.9	16	22	SE (140)	79	0	
5/28/2020 4:00	19.7	16	22	SE (134)	80	0	
5/28/2020 5:00	20	16	22	SE (131)	79	0	
5/28/2020 6:00	20.3	19	27	SSE (150)	79	0	
5/28/2020 7:00	20.9	17	24	SSE (165)	79	0	
5/28/2020 8:00	19.6	19	28	S (174)	100	0.6	0.6
5/28/2020 9:00	19	11	19	SW (224)	100	0.4	
5/28/2020 10:00	19.2	12	17	SSW (194)	100	0.6	
5/28/2020 11:00	19.7	10	18	SSW (207)	100	0.4	
5/28/2020 12:00	21.2	10	19	SW (227)	100	0.8	
5/28/2020 13:00	22.9	13	22	SSW (203)	82	1	
5/28/2020 14:00	23.3	14	25	SSW (212)	77	0.2	
5/28/2020 15:00	24	12	24	S (191)	74	0.2	
5/28/2020 16:00	24.6	19	29	S (171)	66	0	
5/28/2020 17:00	23.7	22	32	S (180)	71	0	
5/28/2020 18:00	23	21	32	SSE (162)	76	0	
5/28/2020 19:00	21.9	20	27	SSE (164)	84	0	
5/28/2020 20:00	20.8	19	29	SE (136)	92	0	
5/28/2020 21:00	19.8	21	29	SSE (155)	100	0	
5/28/2020 22:00	19.6	18	26	S (173)	100	0	
5/28/2020 23:00	20.2	15	25	SSW (201)	100	0	
5/29/2020 0:00	20.4	14	22	S (183)	98	0	
5/29/2020 1:00	19.9	13	20	S (180)	87	0	
5/29/2020 2:00	19.5	12	21	SSW (198)	87	0	
5/29/2020 3:00	19.4	10	17	S (177)	84	0	
5/29/2020 4:00	19.4	11	19	SSW (197)	83	0	
5/29/2020 5:00	18.8	13	19	SSE (161)	86	0	
5/29/2020 6:00	18.7	12	19	S (169)	87	0	
5/29/2020 7:00	19.5	12	21	S (183)	86	0	
5/29/2020 8:00	20.7	14	27	SSW (213)	82	0	3.6
5/29/2020 9:00	21.9	17	29	SW (224)	78	0	
5/29/2020 10:00	22.7	17	31	SW (235)	74	0	
5/29/2020 11:00	23	22	35	SW (227)	73	0	
5/29/2020 12:00	21	30	55	NNW (327)	82	0	
5/29/2020 13:00	15.4	31	47	NW (323)	100	0.2	
5/29/2020 14:00	15.1	24	42	NNW (347)	100	0.2	
5/29/2020 15:00	15.2	18	29	NW (319)	100	0.2	
5/29/2020 16:00	15.6	19	32	WNW (292)	87	0.4	
5/29/2020 17:00	16.5	22	30	NW (304)	86	0.2	
5/29/2020 18:00	16.8	20	28	NW (319)	81	0.2	
5/29/2020 19:00	17.2	16	25	NNW (334)	77	0.2	
5/29/2020 20:00	16	8	15	NNE (12)	74	0	
5/29/2020 21:00	14.3	5	7	ENE (69)	80	0.2	
5/29/2020 22:00	14.3	3	5	SE (134)	86	0	
5/29/2020 23:00	14	5	8	SSE (165)	89	0	
5/30/2020 0:00	13.5	8	11	S (170)	85	0	
5/30/2020 1:00	13.2	6	9	S (190)	86	0	
5/30/2020 2:00	13.2	5	9	S (191)	100	0	
5/30/2020 3:00	13	8	12	SW (227)	100	0	
5/30/2020 4:00	12.6	8	12	WSW (242)	100	0	
5/30/2020 5:00	12.9	11	17	NW (307)	100	0	
5/30/2020 6:00	12.7	11	15	NW (309)	100	0	
5/30/2020 7:00	13.4	20	35	WNW (299)	100	0	
5/30/2020 8:00	13.1	25	38	WNW (298)	98	0	1.8
5/30/2020 9:00	13	24	37	NW (307)	82	0	
5/30/2020 10:00	13.2	25	37	WNW (294)	80	0	
5/30/2020 11:00	13.7	24	33	WNW (295)	78	0	
5/30/2020 12:00	14.3	27	41	NNW (336)	72	0	
5/30/2020 13:00	15.1	25	38	N (351)	67	0	
5/30/2020 14:00	15.3	21	33	NNW (346)	70	0	
5/30/2020 15:00	15	18	30	N (2)	70	0	
5/30/2020 16:00	15.2	17	33	NNW (339)	62	0	
5/30/2020 17:00	14.6	18	34	N (353)	63	0	
5/30/2020 18:00	12.4	23	39	NNW (340)	66	0	
5/30/2020 19:00	12.6	17	29	N (3)	62	0	
5/30/2020 20:00	11.7	13	24	N (354)	62	0	
5/30/2020 21:00	9.8	9	16	N (2)	77	0	
5/30/2020 22:00	9.1	8	15	NNW (328)	80	0	
5/30/2020 23:00	8.8	10	18	NNE (12)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
5/31/2020 0:00	8.9	15	28	NNW (345)	75	0	
5/31/2020 1:00	8.2	16	27	N (3)	68	0	
5/31/2020 2:00	7.5	13	26	N (0)	66	0	
5/31/2020 3:00	6.8	9	21	NW (325)	71	0	
5/31/2020 4:00	7.2	11	21	NNW (332)	69	0	
5/31/2020 5:00	7.2	13	23	N (349)	67	0	
5/31/2020 6:00	6.9	11	19	NW (325)	71	0	
5/31/2020 7:00	7.5	17	28	NW (321)	71	0	
5/31/2020 8:00	8.2	18	27	NW (323)	70	0	0
5/31/2020 9:00	8.7	18	30	NNW (331)	71	0	
5/31/2020 10:00	9.5	17	27	WNW (302)	72	0	
5/31/2020 11:00	10	18	29	WNW (294)	68	0	
5/31/2020 12:00	10.7	18	29	NW (317)	64	0	
5/31/2020 13:00	11.3	17	32	NW (317)	59	0	
5/31/2020 14:00	11.7	18	34	NNW (336)	52	0	
5/31/2020 15:00	12.2	14	27	NNW (331)	47	0	
5/31/2020 16:00	13.3	13	22	NW (318)	39	0	
5/31/2020 17:00	13.8	11	23	N (4)	36	0	
5/31/2020 18:00	14.4	8	16	W (262)	40	0	
5/31/2020 19:00	14.7	8	14	SW (226)	38	0	
5/31/2020 20:00	14	7	11	S (179)	43	0	
5/31/2020 21:00	12.3	9	13	S (181)	46	0	
5/31/2020 22:00	11.7	10	16	SSW (211)	46	0	
5/31/2020 23:00	10.6	11	17	SW (230)	60	0	
6/1/2020 0:00	9.7	10	16	SSW (208)	68	0	
6/1/2020 1:00	9.4	13	19	SW (217)	75	0	
6/1/2020 2:00	9.5	14	18	SW (232)	79	0	
6/1/2020 3:00	9.4	12	16	SW (216)	81	0	
6/1/2020 4:00	9	7	11	SW (222)	83	0	
6/1/2020 5:00	8.6	6	9	WSW (242)	83	0	
6/1/2020 6:00	9.1	4	8	S (191)	82	0	
6/1/2020 7:00	10.8	7	14	WSW (248)	79	0	
6/1/2020 8:00	13.3	8	14	WNW (298)	63	0	0
6/1/2020 9:00	15.3	10	17	W (265)	48	0	
6/1/2020 10:00	16.7	13	24	WSW (251)	43	0	
6/1/2020 11:00	18.1	12	20	WSW (244)	38	0	
6/1/2020 12:00	19.7	15	31	W (280)	34	0	
6/1/2020 13:00	20.7	16	30	SW (234)	34	0	
6/1/2020 14:00	21.6	12	28	W (268)	33	0	
6/1/2020 15:00	22.2	13	27	SW (225)	32	0	
6/1/2020 16:00	22.6	16	30	SSW (210)	30	0	
6/1/2020 17:00	22.3	22	37	SSW (207)	29	0	
6/1/2020 18:00	21.3	21	35	SW (214)	27	0	
6/1/2020 19:00	20.1	16	27	SW (214)	30	0	
6/1/2020 20:00	19.8	12	21	SSW (193)	34	0	
6/1/2020 21:00	19	12	19	SW (229)	38	0	
6/1/2020 22:00	18.5	11	16	SSE (162)	40	0	
6/1/2020 23:00	18	11	20	SW (214)	43	0	
6/2/2020 0:00	15.6	10	18	SSW (204)	74	0	
6/2/2020 1:00	13.8	13	24	WSW (238)	90	0.2	
6/2/2020 2:00	13.4	11	19	SE (145)	100	0.2	
6/2/2020 3:00	12.9	20	27	SSE (151)	100	0.4	
6/2/2020 4:00	12.6	21	31	SE (131)	100	0.4	
6/2/2020 5:00	12.4	29	40	SE (139)	100	0.6	
6/2/2020 6:00	12.4	25	41	SSE (148)	100	0.6	
6/2/2020 7:00	12.6	27	37	SSE (154)	100	0.4	
6/2/2020 8:00	13.9	21	30	SSE (148)	100	0.2	3
6/2/2020 9:00	16.6	15	24	SSW (212)	92	1	
6/2/2020 10:00	19.7	14	25	WSW (237)	69	0.8	
6/2/2020 11:00	21.9	15	24	WNW (288)	66	0.6	
6/2/2020 12:00	23.3	11	18	W (267)	65	0.2	
6/2/2020 13:00	24.3	8	17	SSW (192)	64	0	
6/2/2020 14:00	25.7	11	20	SW (224)	62	0	
6/2/2020 15:00	27.2	19	29	SW (218)	58	0	
6/2/2020 16:00	28.5	23	38	SW (234)	54	0	
6/2/2020 17:00	29.1	21	34	SW (222)	52	0	
6/2/2020 18:00	29.9	21	30	SW (221)	52	0	
6/2/2020 19:00	30	19	29	SW (230)	53	0	
6/2/2020 20:00	28.2	11	16	WSW (247)	61	0	
6/2/2020 21:00	26.5	12	19	WSW (255)	63	0	
6/2/2020 22:00	25.7	12	18	WSW (256)	66	0	
6/2/2020 23:00	24.8	9	14	WNW (297)	70	0	
6/3/2020 0:00	23.6	13	23	NW (314)	72	0	
6/3/2020 1:00	21.4	7	11	N (354)	77	0	
6/3/2020 2:00	20.1	3	7	NNW (329)	82	0	
6/3/2020 3:00	19.3	3	14	W (280)	88	0	
6/3/2020 4:00	19.1	21	41	NNE (13)	100	0.2	
6/3/2020 5:00	19	24	41	ENE (73)	100	0.6	
6/3/2020 6:00	19	13	24	WNW (284)	93	0.4	
6/3/2020 7:00	19.9	9	17	SW (229)	91	0.2	
6/3/2020 8:00	21.2	16	32	SW (230)	88	0	4
6/3/2020 9:00							
6/3/2020 10:00	23.8	23	32	W (273)	73	0	
6/3/2020 11:00	24.4	22	42	W (265)	66	0	
6/3/2020 12:00	24.4	28	41	WNW (291)	65	0	
6/3/2020 13:00	24.6	28	39	NW (311)	65	0	
6/3/2020 14:00	25	26	35	NW (311)	65	0	
6/3/2020 15:00	26	23	37	W (277)	64	0	
6/3/2020 16:00	26.4	23	38	WNW (296)	56	0	
6/3/2020 17:00	26.6	19	31	W (276)	54	0	
6/3/2020 18:00	26.8	18	28	NW (314)	50	0	
6/3/2020 19:00	24.1	15	25	N (2)	62	0	
6/3/2020 20:00	22.2	9	16	NNE (28)	58	0	
6/3/2020 21:00	20.4	3	6	ENE (59)	62	0	
6/3/2020 22:00	19	2	7	SE (126)	76	0	
6/3/2020 23:00	18.1	3	7	SSE (157)	77	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/4/2020 0:00	17.9	3	9	S (179)	77	0	
6/4/2020 1:00	17.4	6	10	SSW (193)	80	0	
6/4/2020 2:00	17.4	7	13	S (185)	84	0	
6/4/2020 3:00	18.3	9	16	SSW (206)	84	0	
6/4/2020 4:00	17.5	7	13	SW (229)	84	0	
6/4/2020 5:00	17.4	7	13	SW (222)	84	0	
6/4/2020 6:00	17.1	5	12	W (268)	84	0	
6/4/2020 7:00	18.6	4	8	WSW (257)	83	0	
6/4/2020 8:00	21.6	6	10	SW (232)	73	0	0
6/4/2020 9:00	23.4	7	11	SSW (198)	59	0	
6/4/2020 10:00	24.9	5	17	SW (229)	54	0	
6/4/2020 11:00	26.1	7	15	WNW (283)	48	0	
6/4/2020 12:00	27.2	4	13	NW (313)	45	0	
6/4/2020 13:00	27.8	6	14	S (181)	42	0	
6/4/2020 14:00	28.5	6	19	WSW (254)	40	0	
6/4/2020 15:00	28.7	8	18	S (182)	40	0	
6/4/2020 16:00	28.2	8	17	SSE (161)	42	0	
6/4/2020 17:00	28.1	9	15	NNW (341)	40	0	
6/4/2020 18:00	28.2	7	14	N (349)	34	0	
6/4/2020 19:00	26.8	8	11	ESE (117)	49	0	
6/4/2020 20:00	25.6	6	13	SSE (158)	59	0	
6/4/2020 21:00	23.6	10	17	SW (222)	69	0	
6/4/2020 22:00	22	7	11	SSE (166)	76	0	
6/4/2020 23:00	20.7	8	12	S (175)	79	0	
6/5/2020 0:00	19.8	5	10	S (186)	84	0	
6/5/2020 1:00	19.4	9	13	SSE (153)	85	0	
6/5/2020 2:00	18.9	9	13	SSE (160)	86	0	
6/5/2020 3:00	18.7	7	12	SSW (193)	100	0	
6/5/2020 4:00	19	9	15	SW (234)	100	0	
6/5/2020 5:00	18.6	7	13	S (188)	100	0	
6/5/2020 6:00	18.5	4	7	S (188)	100	0	
6/5/2020 7:00	20	6	10	S (171)	100	0	
6/5/2020 8:00	21.9	7	10	WSW (243)	96	0	0
6/5/2020 9:00	24	7	12	WSW (256)	75	0	
6/5/2020 10:00	25.7	6	15	WNW (287)	63	0	
6/5/2020 11:00	26.1	10	18	NW (310)	58	0	
6/5/2020 12:00	27	8	15	SSW (210)	54	0	
6/5/2020 13:00	28.2	7	18	SW (229)	48	0	
6/5/2020 14:00	29.3	9	24	NNW (333)	46	0	
6/5/2020 15:00	28.8	14	29	W (278)	45	0	
6/5/2020 16:00	28.7	17	30	NNW (342)	46	0	
6/5/2020 17:00	27.1	14	22	NW (325)	48	0	
6/5/2020 18:00	27.1	4	9	N (2)	50	0	
6/5/2020 19:00	27.1	4	9	NNE (33)	49	0	
6/5/2020 20:00	25.3	6	11	ENE (57)	62	0	
6/5/2020 21:00	23	7	11	SE (131)	63	0	
6/5/2020 22:00	22.7	4	8	ESE (121)	71	0	
6/5/2020 23:00	22.4	8	14	SW (232)	76	0	
6/6/2020 0:00	20.2	14	26	NW (312)	81	0	
6/6/2020 1:00	17.1	11	25	NNW (334)	76	0	
6/6/2020 2:00	16.6	8	13	NNW (333)	74	0	
6/6/2020 3:00	15.3	8	17	NW (316)	69	0	
6/6/2020 4:00	14.2	7	11	NW (323)	73	0	
6/6/2020 5:00	13.2	7	12	NW (314)	82	0	
6/6/2020 6:00	13.4	10	15	NNW (341)	83	0	
6/6/2020 7:00	15.4	8	14	NW (317)	77	0	
6/6/2020 8:00	17.3	10	16	NW (324)	71	0	0
6/6/2020 9:00	19.3	10	17	NNW (344)	61	0	
6/6/2020 10:00	20.9	10	20	NNW (339)	55	0	
6/6/2020 11:00	21.5	14	26	N (1)	49	0	
6/6/2020 12:00	22	17	28	NW (324)	50	0	
6/6/2020 13:00	22.5	19	31	NNW (340)	48	0	
6/6/2020 14:00	21.5	23	36	N (6)	56	0	
6/6/2020 15:00	20.9	25	38	N (11)	51	0	
6/6/2020 16:00	20.6	25	41	N (11)	47	0	
6/6/2020 17:00	20.5	26	38	N (0)	45	0	
6/6/2020 18:00	20.2	25	36	NNE (16)	44	0	
6/6/2020 19:00	18.9	18	30	NNW (335)	54	0	
6/6/2020 20:00	16.6	14	24	N (3)	68	0	
6/6/2020 21:00	14.7	13	22	N (350)	73	0	
6/6/2020 22:00	14	11	22	NW (326)	78	0	
6/6/2020 23:00	13.4	8	16	NNW (336)	83	0	
6/7/2020 0:00	12.9	8	13	NNW (340)	83	0	
6/7/2020 1:00	12.3	6	13	N (10)	85	0	
6/7/2020 2:00	11.6	7	11	WNW (286)	96	0	
6/7/2020 3:00	10.7	6	10	NE (48)	99	0	
6/7/2020 4:00	10.1	4	7	N (353)	100	0	
6/7/2020 5:00	9.7	5	8	WNW (303)	100	0	
6/7/2020 6:00	9.8	5	9	WNW (290)	100	0	
6/7/2020 7:00	11.8	5	9	NW (309)	100	0	
6/7/2020 8:00	13.9	7	13	WNW (301)	98	0	0
6/7/2020 9:00	16.1	8	14	NW (308)	77	0	
6/7/2020 10:00	18	13	23	NNW (330)	67	0	
6/7/2020 11:00	18.8	16	26	N (353)	53	0	
6/7/2020 12:00	19.1	18	32	N (8)	49	0	
6/7/2020 13:00	18.8	19	32	NNE (22)	48	0	
6/7/2020 14:00	18.4	21	34	N (353)	48	0	
6/7/2020 15:00	18	20	32	NW (323)	48	0	
6/7/2020 16:00	17.8	19	31	NNW (333)	49	0	
6/7/2020 17:00	17	17	25	N (0)	51	0	
6/7/2020 18:00	16	17	25	NNW (333)	50	0	
6/7/2020 19:00	15.1	16	24	N (5)	55	0	
6/7/2020 20:00	13.2	11	20	N (9)	65	0	
6/7/2020 21:00	11.6	9	13	N (8)	71	0	
6/7/2020 22:00	10.6	10	17	NNW (330)	78	0	
6/7/2020 23:00	10.4	7	14	NNW (330)	82	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/8/2020 0:00	10.4	6	14	NNW (342)	84	0	
6/8/2020 1:00	9.8	5	9	NNW (348)	90	0	
6/8/2020 2:00	9.3	4	6	NW (309)	96	0	
6/8/2020 3:00	8.9	4	7	N (353)	100	0	
6/8/2020 4:00	8.7	4	7	NNE (16)	100	0	
6/8/2020 5:00	8.7	4	6	N (0)	100	0	
6/8/2020 6:00	9.5	3	7	NE (39)	100	0	
6/8/2020 7:00	12.5	4	11	ESE (110)	89	0	
6/8/2020 8:00	15.8	13	19	ESE (120)	69	0	0
6/8/2020 9:00	17.7	13	18	SSE (152)	57	0	
6/8/2020 10:00	19.5	9	18	SSE (158)	52	0	
6/8/2020 11:00	21.1	6	16	ESE (114)	45	0	
6/8/2020 12:00	22.5	6	16	N (6)	42	0	
6/8/2020 13:00	23.9	4	24	S (183)	41	0	
6/8/2020 14:00	25	7	18	SW (234)	39	0	
6/8/2020 15:00	26	7	16	S (175)	36	0	
6/8/2020 16:00	26.7	9	21	SSE (163)	38	0	
6/8/2020 17:00	26.8	10	23	S (169)	37	0	
6/8/2020 18:00	26.4	16	24	SSE (152)	38	0	
6/8/2020 19:00	25.3	18	24	SE (136)	37	0	
6/8/2020 20:00	23.3	15	20	SSE (157)	36	0	
6/8/2020 21:00	21.5	13	17	SSE (152)	35	0	
6/8/2020 22:00	20.3	15	21	SSE (155)	38	0	
6/8/2020 23:00	18.4	14	18	SSE (158)	44	0	
6/9/2020 0:00	17	10	16	S (173)	54	0	
6/9/2020 1:00	15.8	7	12	SSE (161)	64	0	
6/9/2020 2:00	15.1	6	12	ESE (110)	75	0	
6/9/2020 3:00	14.6	5	12	SE (135)	78	0	
6/9/2020 4:00	15	9	12	SE (141)	75	0	
6/9/2020 5:00	14.9	9	14	SE (138)	75	0	
6/9/2020 6:00	16.1	9	13	SE (140)	74	0	
6/9/2020 7:00	18.6	10	16	S (172)	70	0	
6/9/2020 8:00	21.6	9	14	SSW (200)	62	0	0
6/9/2020 9:00	24.9	11	18	SW (218)	49	0	
6/9/2020 10:00	26.3	12	22	S (191)	43	0	
6/9/2020 11:00	28	9	18	SE (139)	40	0	
6/9/2020 12:00	29.4	9	17	SSE (155)	40	0	
6/9/2020 13:00	30.3	12	22	SE (138)	37	0	
6/9/2020 14:00	30.9	17	29	SE (126)	37	0	
6/9/2020 15:00	31.4	20	30	SE (141)	34	0	
6/9/2020 16:00	31.5	23	33	SE (146)	27	0	
6/9/2020 17:00	31.2	25	32	SSE (157)	26	0	
6/9/2020 18:00	30.4	22	30	SE (134)	28	0	
6/9/2020 19:00	28.5	20	29	ESE (120)	36	0	
6/9/2020 20:00	26.9	19	27	ESE (118)	38	0	
6/9/2020 21:00	25.3	20	26	SE (128)	44	0	
6/9/2020 22:00	24.4	24	32	SE (129)	50	0	
6/9/2020 23:00	24.2	24	31	SE (133)	53	0	
6/10/2020 0:00	23.7	18	31	SE (127)	78	0	
6/10/2020 1:00	22.1	18	49	S (180)	100	0.4	
6/10/2020 2:00	22	19	25	SE (134)	100	2.6	
6/10/2020 3:00	22.7	20	27	S (170)	100	1.4	
6/10/2020 4:00	23.6	20	30	SSE (160)	100	1	
6/10/2020 5:00	23.4	19	30	S (169)	87	1.2	
6/10/2020 6:00	24	22	33	SSW (200)	84	0.8	
6/10/2020 7:00	25	24	38	S (170)	78	0.4	
6/10/2020 8:00	25.3	21	35	S (172)	79	0	7.8
6/10/2020 9:00	25.9	23	41	SSE (162)	79	0	
6/10/2020 10:00	26.5	24	40	SSW (196)	78	0	
6/10/2020 11:00	27.4	25	42	S (186)	76	0	
6/10/2020 12:00	28.3	25	40	SSE (168)	74	0	
6/10/2020 13:00	29.1	26	43	S (171)	69	0	
6/10/2020 14:00	29.7	30	51	S (177)	66	0	
6/10/2020 15:00	30.1	30	49	S (180)	60	0	
6/10/2020 16:00	30.4	32	49	S (182)	59	0	
6/10/2020 17:00	30.3	24	44	SSE (158)	59	0	
6/10/2020 18:00	24.3	21	48	N (6)	82	0	
6/10/2020 19:00	19.9	18	31	WSW (246)	83	0	
6/10/2020 20:00	18.5	14	24	ESE (102)	100	0.4	
6/10/2020 21:00	18.8	16	25	SE (135)	100	0.4	
6/10/2020 22:00	19.8	20	26	S (171)	100	0.6	
6/10/2020 23:00	20.2	18	31	S (188)	100	0.8	
6/11/2020 0:00	19.8	20	36	SW (216)	100	1	
6/11/2020 1:00	18.9	17	28	SSW (211)	74	0.8	
6/11/2020 2:00	18.7	22	40	SW (221)	73	0.6	
6/11/2020 3:00	18.7	30	48	SW (231)	76	0.4	
6/11/2020 4:00	16.8	29	47	WSW (246)	77	0.6	
6/11/2020 5:00	15.5	19	33	W (268)	79	0.4	
6/11/2020 6:00	14.9	19	48	WNW (293)	79	0.4	
6/11/2020 7:00	15.3	14	23	SW (228)	77	0.4	
6/11/2020 8:00	16.5	21	32	W (272)	78	0.4	7.2
6/11/2020 9:00	17.7	21	32	WSW (248)	74	0.4	
6/11/2020 10:00	18.9	24	40	SW (217)	73	0.4	
6/11/2020 11:00	19.7	24	36	WSW (247)	66	0.4	
6/11/2020 12:00	20.4	24	39	WNW (285)	62	0.4	
6/11/2020 13:00	20.9	22	35	WSW (257)	57	0.4	
6/11/2020 14:00	21.6	21	35	WSW (254)	55	0.2	
6/11/2020 15:00	22.2	23	37	WNW (283)	49	0.2	
6/11/2020 16:00	23	21	36	WSW (255)	46	0	
6/11/2020 17:00	23.2	21	38	WSW (248)	44	0	
6/11/2020 18:00	23.2	21	33	WSW (246)	42	0	
6/11/2020 19:00	23	20	31	WSW (237)	42	0	
6/11/2020 20:00	21.7	14	26	SW (230)	51	0	
6/11/2020 21:00	19.8	9	15	SW (217)	54	0	
6/11/2020 22:00	18.4	17	58	WNW (297)	71	0	
6/11/2020 23:00	15.6	11	33	W (264)	81	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/12/2020 0:00	15.2	6	10	W (261)	83	0	
6/12/2020 1:00	15.2	8	13	WSW (257)	81	0	
6/12/2020 2:00	15.1	12	25	WNW (292)	82	0	
6/12/2020 3:00	14.4	17	29	NNW (332)	89	0	
6/12/2020 4:00	12.8	9	19	N (8)	88	0	
6/12/2020 5:00	11.7	8	13	NW (323)	100	0	
6/12/2020 6:00	11.3	7	13	NW (323)	97	0	
6/12/2020 7:00	11.9	9	18	NW (321)	85	0	
6/12/2020 8:00	12.9	16	26	NW (318)	78	0	2.4
6/12/2020 9:00	13.6	17	28	NW (308)	72	0	
6/12/2020 10:00	13.9	23	32	NW (321)	67	0	
6/12/2020 11:00	13.8	19	31	N (351)	68	0	
6/12/2020 12:00	13.9	16	30	N (6)	69	0	
6/12/2020 13:00	14	16	28	NW (316)	69	0	
6/12/2020 14:00	13.7	16	27	NNW (346)	69	0	
6/12/2020 15:00	13.8	18	30	N (0)	66	0	
6/12/2020 16:00	13.5	20	33	NW (316)	62	0	
6/12/2020 17:00	13.6	19	31	NNW (345)	55	0	
6/12/2020 18:00	13.4	20	29	N (4)	55	0	
6/12/2020 19:00	13	17	26	NNE (19)	51	0	
6/12/2020 20:00	12.6	14	23	NNE (29)	52	0	
6/12/2020 21:00	11.2	8	13	NE (42)	64	0	
6/12/2020 22:00	10	8	14	NNE (15)	70	0	
6/12/2020 23:00	9.3	8	16	NNE (23)	82	0	
6/13/2020 0:00	9	11	20	NE (40)	82	0	
6/13/2020 1:00	8.1	4	9	N (7)	72	0	
6/13/2020 2:00	7.7	8	14	NE (34)	74	0	
6/13/2020 3:00	7.3	9	17	NNE (17)	78	0	
6/13/2020 4:00	6.4	6	12	ENE (65)	83	0	
6/13/2020 5:00	6	4	7	NE (49)	85	0	
6/13/2020 6:00	6.3	6	11	NE (39)	86	0	
6/13/2020 7:00	8.7	14	24	ENE (65)	81	0	
6/13/2020 8:00	10.7	17	25	ENE (70)	69	0	0
6/13/2020 9:00	11.9	18	25	NE (35)	60	0	
6/13/2020 10:00	13.1	14	25	ENE (57)	52	0	
6/13/2020 11:00	14.4	16	28	NNE (20)	45	0	
6/13/2020 12:00	15.2	17	32	NE (39)	43	0	
6/13/2020 13:00	15.5	16	29	NNE (31)	52	0	
6/13/2020 14:00	15.5	18	32	NNE (12)	54	0	
6/13/2020 15:00	15.7	19	33	NNW (343)	51	0	
6/13/2020 16:00	15.3	20	32	NW (321)	52	0	
6/13/2020 17:00	15	22	34	N (0)	49	0	
6/13/2020 18:00	14.1	20	37	N (7)	52	0	
6/13/2020 19:00	13.4	19	31	NNW (336)	54	0	
6/13/2020 20:00	12.2	19	33	NNW (341)	62	0	
6/13/2020 21:00	11.4	16	26	N (350)	68	0	
6/13/2020 22:00	11.1	13	20	NNE (17)	70	0	
6/13/2020 23:00	11	12	19	ENE (78)	70	0	
6/14/2020 0:00	9.8	6	11	E (97)	76	0	
6/14/2020 1:00	8.8	6	14	ENE (64)	81	0	
6/14/2020 2:00	8.5	11	15	E (80)	84	0	
6/14/2020 3:00	8.5	11	13	E (80)	84	0	
6/14/2020 4:00	8.3	12	16	ENE (64)	79	0	
6/14/2020 5:00	7.9	13	17	ENE (74)	75	0	
6/14/2020 6:00	8.4	12	16	E (81)	73	0	
6/14/2020 7:00	10.6	12	17	E (81)	70	0	
6/14/2020 8:00	13.1	14	26	ENE (78)	65	0	0
6/14/2020 9:00	14.7	20	29	ESE (108)	53	0	
6/14/2020 10:00	16	19	27	E (79)	48	0	
6/14/2020 11:00	16.9	20	33	NNE (24)	42	0	
6/14/2020 12:00	17.6	21	35	NE (55)	38	0	
6/14/2020 13:00	18.3	21	33	ENE (66)	38	0	
6/14/2020 14:00	18.8	20	34	ENE (70)	38	0	
6/14/2020 15:00	19.2	19	35	NNW (334)	40	0	
6/14/2020 16:00	18.4	22	37	ESE (122)	45	0	
6/14/2020 17:00	17.4	22	38	NNW (344)	45	0	
6/14/2020 18:00	17.1	18	26	N (7)	46	0	
6/14/2020 19:00	17	14	25	ENE (74)	49	0	
6/14/2020 20:00	16.5	17	24	ENE (77)	41	0	
6/14/2020 21:00	14	13	19	ENE (60)	50	0	
6/14/2020 22:00	12	10	13	NE (46)	53	0	
6/14/2020 23:00	11.4	7	11	NNE (23)	55	0	
6/15/2020 0:00	10.6	8	11	NE (53)	60	0	
6/15/2020 1:00	10.1	10	12	NE (55)	64	0	
6/15/2020 2:00	9.6	10	13	NE (45)	67	0	
6/15/2020 3:00	9.7	13	19	E (80)	68	0	
6/15/2020 4:00	9.7	12	17	ENE (68)	72	0	
6/15/2020 5:00	9.8	12	15	E (89)	72	0	
6/15/2020 6:00	10.5	12	16	E (82)	71	0	
6/15/2020 7:00	12.8	16	23	E (82)	68	0	
6/15/2020 8:00	15.3	17	24	E (83)	59	0	0
6/15/2020 9:00	17.6	15	22	ESE (103)	55	0	
6/15/2020 10:00	19.4	14	23	ESE (104)	53	0	
6/15/2020 11:00	20.7	14	21	E (100)	52	0	
6/15/2020 12:00	21.4	13	22	ESE (111)	49	0	
6/15/2020 13:00	22.3	15	28	ENE (72)	41	0	
6/15/2020 14:00	22.9	14	29	S (172)	40	0	
6/15/2020 15:00	23.2	12	26	SE (140)	41	0	
6/15/2020 16:00	23.8	10	23	SE (124)	38	0	
6/15/2020 17:00	23.7	11	18	SSW (192)	40	0	
6/15/2020 18:00	23.6	11	23	SE (143)	41	0	
6/15/2020 19:00	22.5	14	20	SSE (147)	43	0	
6/15/2020 20:00	21.3	12	20	ESE (119)	49	0	
6/15/2020 21:00	19	9	14	SE (146)	56	0	
6/15/2020 22:00	17.2	8	12	ESE (106)	64	0	
6/15/2020 23:00	16.1	12	24	SE (124)	67	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/16/2020 0:00	15.6	13	18	E (97)	56	0	
6/16/2020 1:00	13.7	11	16	E (98)	63	0	
6/16/2020 2:00	13.6	11	14	E (89)	61	0	
6/16/2020 3:00	12.3	8	11	ESE (104)	68	0	
6/16/2020 4:00	12.1	11	14	E (90)	69	0	
6/16/2020 5:00	11.4	9	13	ENE (76)	73	0	
6/16/2020 6:00	11.9	6	10	ESE (104)	71	0	
6/16/2020 7:00	14.2	10	14	ESE (103)	65	0	
6/16/2020 8:00	17.5	10	16	SE (126)	55	0	0
6/16/2020 9:00	20	7	12	ESE (110)	47	0	
6/16/2020 10:00	21.7	8	23	NNE (25)	42	0	
6/16/2020 11:00	22.5	10	22	N (354)	39	0	
6/16/2020 12:00	23.2	9	21	NE (39)	36	0	
6/16/2020 13:00	23.9	9	20	NNW (345)	37	0	
6/16/2020 14:00	-79.2	7	17	NNE (12)	1	0	
6/16/2020 15:00	-79.2	10	23	NNW (331)	1	0	
6/16/2020 16:00	-79.2	12	22	NW (305)	1	0	
6/16/2020 17:00	-79.2	14	22	NNE (18)	1	0	
6/16/2020 18:00	-79.2	15	22	N (349)	1	0	
6/16/2020 19:00	-79.3	13	19	N (353)	1	0	
6/16/2020 20:00	-79.3	10	17	NE (44)	1	0	
6/16/2020 21:00	-79.3	8	15	E (95)	1	0	
6/16/2020 22:00	-79.4	3	8	NNE (15)	1	0	
6/16/2020 23:00	-79.4	2	4	N (351)	1	0	
6/17/2020 0:00	-79.4	4	10	SE (132)	1	0	
6/17/2020 1:00	-79.4	5	9	SE (146)	1	0	
6/17/2020 2:00	-79.4	6	16	SSE (150)	1	0	
6/17/2020 3:00	-79.4	9	15	ESE (103)	1	0	
6/17/2020 4:00	-79.4	6	10	E (88)	1	0	
6/17/2020 5:00	-79.4	7	11	ESE (116)	1	0	
6/17/2020 6:00	-79.4	7	11	E (92)	1	0	
6/17/2020 7:00	-79.3	4	6	E (87)	1	0	
6/17/2020 8:00	-79.3	4	8	E (101)	1	0	0
6/17/2020 9:00	-79.3	6	11	NNE (14)	1	0	
6/17/2020 10:00	-79.2	6	13	ENE (64)	1	0	
6/17/2020 11:00	-79.2	6	15	SW (230)	1	0	
6/17/2020 12:00	-79.2	7	15	E (86)	1	0	
6/17/2020 13:00	27.2	6	15	S (188)	33	0	
6/17/2020 14:00	26.2	15	24	WNW (300)	38	0	
6/17/2020 15:00	26.1	16	31	N (8)	37	0	
6/17/2020 16:00	26.2	15	23	NNE (20)	36	0	
6/17/2020 17:00	26.2	13	23	N (6)	34	0	
6/17/2020 18:00	26.1	12	19	NNE (22)	33	0	
6/17/2020 19:00	25.1	11	17	NNE (12)	35	0	
6/17/2020 20:00	23.3	7	12	NNE (25)	42	0	
6/17/2020 21:00	21	7	9	NE (51)	45	0	
6/17/2020 22:00	19.6	4	6	ENE (71)	53	0	
6/17/2020 23:00	18.5	5	9	SE (128)	59	0	
6/18/2020 0:00	16.7	3	7	NNW (334)	73	0	
6/18/2020 1:00	15.8	2	5	E (79)	69	0	
6/18/2020 2:00	15.8	2	6	ESE (102)	75	0	
6/18/2020 3:00	16	6	8	ESE (102)	65	0	
6/18/2020 4:00	15.3	5	8	NE (36)	69	0	
6/18/2020 5:00	14.1	5	7	E (84)	74	0	
6/18/2020 6:00	15.5	5	7	E (99)	72	0	
6/18/2020 7:00	18.7	4	8	NE (52)	66	0	
6/18/2020 8:00	21.8	6	10	E (93)	59	0	0
6/18/2020 9:00	23.8	5	12	ESE (112)	55	0	
6/18/2020 10:00	25.3	7	14	ESE (118)	51	0	
6/18/2020 11:00	26.6	7	16	NNE (18)	46	0	
6/18/2020 12:00	27.6	10	20	ENE (77)	46	0	
6/18/2020 13:00	28.5	11	22	E (96)	38	0	
6/18/2020 14:00	29.3	10	24	ENE (73)	37	0	
6/18/2020 15:00	29	12	24	NNE (25)	39	0	
6/18/2020 16:00	29.2	19	30	NE (43)	37	0	
6/18/2020 17:00	28.3	18	27	N (7)	38	0	
6/18/2020 18:00	27.6	15	24	NNE (29)	39	0	
6/18/2020 19:00	25.9	10	17	NW (323)	41	0	
6/18/2020 20:00	24.1	8	13	NNE (25)	48	0	
6/18/2020 21:00	22.8	4	8	NE (35)	48	0	
6/18/2020 22:00	22	5	7	N (4)	54	0	
6/18/2020 23:00	20.9	4	7	ENE (62)	57	0	
6/19/2020 0:00	20.6	4	6	ESE (111)	59	0	
6/19/2020 1:00	19	2	5	E (98)	69	0	
6/19/2020 2:00	18.4	3	6	WNW (303)	74	0	
6/19/2020 3:00	17.3	3	5	E (80)	75	0	
6/19/2020 4:00	17	4	7	NW (315)	81	0	
6/19/2020 5:00	16.9	3	7	SE (135)	80	0	
6/19/2020 6:00	17.3	3	7	ESE (123)	78	0	
6/19/2020 7:00	19.2	3	7	NW (324)	77	0	
6/19/2020 8:00	22.4	5	9	ESE (122)	64	0	0
6/19/2020 9:00	24.5	9	19	E (88)	62	0	
6/19/2020 10:00	25.8	6	11	ESE (121)	54	0	
6/19/2020 11:00	27	4	12	S (176)	54	0	
6/19/2020 12:00	28	6	13	SSE (153)	49	0	
6/19/2020 13:00	28.8	8	15	SE (138)	44	0	
6/19/2020 14:00	28.7	12	29	NNW (343)	43	0	
6/19/2020 15:00	28.4	17	26	NW (308)	40	0	
6/19/2020 16:00	27.9	12	24	SW (225)	52	0	
6/19/2020 17:00	26.6	14	26	S (178)	62	0	
6/19/2020 18:00	26.2	9	16	SE (130)	59	0	
6/19/2020 19:00	25.7	10	15	SE (127)	60	0	
6/19/2020 20:00	25.2	5	14	S (182)	60	0	
6/19/2020 21:00	24.4	4	6	W (279)	64	0	
6/19/2020 22:00	23.3	4	7	SW (226)	68	0	
6/19/2020 23:00	22.2	5	7	SW (225)	73	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/20/2020 0:00	21.1	4	9	S (182)	84	0	
6/20/2020 1:00	20.2	3	6	SSE (165)	86	0	
6/20/2020 2:00	19.9	4	6	SSW (194)	88	0	
6/20/2020 3:00	19.8	4	7	SE (145)	84	0	
6/20/2020 4:00	19.2	4	8	S (180)	88	0	
6/20/2020 5:00	18.7	2	6	ESE (117)	98	0	
6/20/2020 6:00	18.7	4	9	SE (137)	100	0	
6/20/2020 7:00	21.2	4	9	ESE (110)	85	0	
6/20/2020 8:00	23.3	5	8	SSW (199)	77	0	0
6/20/2020 9:00	25	6	13	S (182)	66	0	
6/20/2020 10:00	26.6	7	14	SW (231)	57	0	
6/20/2020 11:00	27.8	7	17	SSE (158)	50	0	
6/20/2020 12:00	28.6	6	16	SSW (194)	49	0	
6/20/2020 13:00	29.4	8	20	S (180)	49	0	
6/20/2020 14:00	29.9	10	23	SE (141)	45	0	
6/20/2020 15:00	30.4	13	22	SE (143)	41	0	
6/20/2020 16:00	30.7	10	25	SW (230)	38	0	
6/20/2020 17:00	30.9	11	22	SSE (166)	43	0	
6/20/2020 18:00	29.9	18	29	S (170)	44	0	
6/20/2020 19:00	28.7	18	24	SSE (157)	48	0	
6/20/2020 20:00	27.1	13	21	SSE (156)	52	0	
6/20/2020 21:00	25.3	12	16	SSE (161)	56	0	
6/20/2020 22:00	24	13	20	SE (139)	60	0	
6/20/2020 23:00	22.9	14	19	SE (138)	62	0	
6/21/2020 0:00	21.5	14	18	SE (136)	66	0	
6/21/2020 1:00	20.4	14	18	SE (132)	71	0	
6/21/2020 2:00	19.7	14	17	SE (138)	78	0	
6/21/2020 3:00	19.8	14	18	SSE (155)	79	0	
6/21/2020 4:00	19.7	14	20	SE (142)	84	0	
6/21/2020 5:00	19.2	13	19	ESE (120)	86	0	
6/21/2020 6:00	20	16	18	SE (136)	85	0	
6/21/2020 7:00	21.3	15	21	SE (134)	80	0	
6/21/2020 8:00	21.8	14	20	SSE (156)	81	0	0
6/21/2020 9:00	23.9	12	20	SSW (210)	76	0	
6/21/2020 10:00	27	13	22	SSW (201)	63	0	
6/21/2020 11:00	28.8	10	22	SW (226)	54	0	
6/21/2020 12:00	30	13	27	SW (222)	49	0	
6/21/2020 13:00	30.7	17	30	SW (226)	45	0	
6/21/2020 14:00	30.1	22	33	SW (235)	46	0	
6/21/2020 15:00	29	18	29	W (269)	46	0	
6/21/2020 16:00	29.3	14	24	SW (233)	49	0	
6/21/2020 17:00	28.5	13	21	SW (214)	49	0	
6/21/2020 18:00	27.9	13	21	SW (218)	51	0	
6/21/2020 19:00	27.4	18	27	SW (223)	51	0	
6/21/2020 20:00	25.4	9	19	NNW (327)	64	0	
6/21/2020 21:00	23.5	2	7	NNW (348)	74	0	
6/21/2020 22:00	22.6	2	5	WNW (296)	76	0	
6/21/2020 23:00	22	2	5	S (188)	75	0	
6/22/2020 0:00	22.4	5	10	SSE (159)	73	0	
6/22/2020 1:00	21.7	6	12	SSE (159)	78	0	
6/22/2020 2:00	21.6	7	12	SSW (192)	83	0	
6/22/2020 3:00	21.4	4	11	SSW (201)	83	0	
6/22/2020 4:00	21.3	4	9	SSW (209)	83	0	
6/22/2020 5:00	21.3	5	9	WSW (250)	83	0	
6/22/2020 6:00	21	6	9	SW (229)	89	0	
6/22/2020 7:00	21.5	6	12	SW (230)	87	0	
6/22/2020 8:00	22.1	4	9	NW (306)	81	0	0
6/22/2020 9:00	22.8	4	8	NW (308)	78	0	
6/22/2020 10:00	23.7	3	11	WNW (301)	75	0	
6/22/2020 11:00	24.4	3	9	SE (137)	72	0	
6/22/2020 12:00	24.6	4	11	WSW (246)	68	0	
6/22/2020 13:00	25.6	5	11	S (170)	66	0	
6/22/2020 14:00	26.2	5	15	S (179)	63	0	
6/22/2020 15:00	27	5	14	ESE (114)	59	0	
6/22/2020 16:00	27	9	18	E (90)	57	0	
6/22/2020 17:00	25.1	19	31	SSE (165)	69	0	
6/22/2020 18:00	24.7	17	26	SSE (147)	69	0	
6/22/2020 19:00	24.4	17	24	SSE (168)	75	0	
6/22/2020 20:00	23.3	16	24	SSE (162)	77	0	
6/22/2020 21:00	21.9	16	21	SE (146)	78	0	
6/22/2020 22:00	20.9	11	16	SSE (156)	85	0	
6/22/2020 23:00	20.1	11	18	SSE (165)	92	0	
6/23/2020 0:00	19.7	13	19	SSE (165)	100	0	
6/23/2020 1:00	19.5	12	18	SE (138)	100	0	
6/23/2020 2:00	19.1	14	18	SE (131)	100	0	
6/23/2020 3:00	19.1	15	20	SE (136)	100	0	
6/23/2020 4:00	19.6	15	20	SSE (158)	100	0	
6/23/2020 5:00	20.2	15	22	SE (141)	100	0	
6/23/2020 6:00	21	16	25	SSE (155)	100	0	
6/23/2020 7:00	21.5	14	20	SE (138)	100	0	
6/23/2020 8:00	22.4	15	26	SE (146)	100	0	0
6/23/2020 9:00	22.1	16	26	S (174)	100	0.2	
6/23/2020 10:00	22.4	16	27	S (170)	100	0.2	
6/23/2020 11:00	21.9	23	34	SSE (150)	100	0.2	
6/23/2020 12:00	20.8	17	30	NW (325)	100	0.4	
6/23/2020 13:00	20.2	13	24	WSW (243)	100	0.4	
6/23/2020 14:00	22.8	16	28	SW (236)	100	0.6	
6/23/2020 15:00	24.4	19	32	SW (216)	81	0.4	
6/23/2020 16:00	24.9	22	36	SW (217)	67	0.6	
6/23/2020 17:00	23.3	29	44	WSW (248)	69	0.4	
6/23/2020 18:00	19.6	29	46	WSW (253)	73	0.2	
6/23/2020 19:00	18	24	43	W (277)	74	0.4	
6/23/2020 20:00	18	22	41	WSW (254)	73	0.2	
6/23/2020 21:00	17.9	21	35	WSW (239)	70	0.4	
6/23/2020 22:00	17.6	22	40	WSW (252)	70	0.2	
6/23/2020 23:00	17.1	20	37	W (276)	70	0.2	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/24/2020 0:00	16.7	21	34	W (272)	68	0.2	
6/24/2020 1:00	16.1	20	33	SW (216)	73	0.2	
6/24/2020 2:00	14.9	18	26	WSW (248)	80	0.2	
6/24/2020 3:00	14.4	17	27	W (272)	80	0.2	
6/24/2020 4:00	14	17	27	W (260)	82	0.2	
6/24/2020 5:00	13.7	18	31	W (267)	84	0.2	
6/24/2020 6:00	13.6	17	24	WSW (249)	85	0.2	
6/24/2020 7:00	14.5	16	27	W (269)	83	0.2	
6/24/2020 8:00	15.7	19	33	W (278)	78	0.2	6.8
6/24/2020 9:00	16.3	23	36	WNW (287)	74	0.2	
6/24/2020 10:00	17.1	20	33	WNW (294)	70	0.2	
6/24/2020 11:00	18	20	31	WSW (246)	66	0.2	
6/24/2020 12:00	19.2	19	32	W (273)	60	0.2	
6/24/2020 13:00	19.9	17	28	WSW (244)	55	0.2	
6/24/2020 14:00	19.8	15	24	SW (229)	55	0.2	
6/24/2020 15:00	20.6	18	29	W (263)	55	0.2	
6/24/2020 16:00	20.7	18	29	SW (225)	54	0.2	
6/24/2020 17:00	21	15	22	SW (227)	54	0.2	
6/24/2020 18:00	20.7	12	21	SW (226)	57	0.2	
6/24/2020 19:00	20.9	11	17	WSW (237)	55	0.2	
6/24/2020 20:00	20	9	15	SSW (212)	58	0	
6/24/2020 21:00	18.6	8	12	S (188)	62	0.2	
6/24/2020 22:00	17.6	9	14	WSW (248)	67	0.2	
6/24/2020 23:00	16.6	8	13	SW (232)	75	0	
6/25/2020 0:00	15.4	7	11	NW (309)	78	0.2	
6/25/2020 1:00	15.2	6	9	WSW (244)	79	0	
6/25/2020 2:00	14.2	3	11	SSW (200)	84	0.2	
6/25/2020 3:00	14.5	7	11	SSW (201)	80	0	
6/25/2020 4:00	14.1	6	8	SW (234)	79	0	
6/25/2020 5:00	13.7	4	8	SSW (206)	81	0.2	
6/25/2020 6:00	14.1	5	9	SW (216)	79	0	
6/25/2020 7:00	15.2	6	12	W (259)	78	0.2	
6/25/2020 8:00	17.4	4	8	SW (216)	70	0.2	3.6
6/25/2020 9:00	19.7	6	13	S (175)	65	0	
6/25/2020 10:00	20.9	10	18	SW (228)	58	0.2	
6/25/2020 11:00	21.9	13	22	SW (220)	55	0.2	
6/25/2020 12:00	23	14	23	WSW (237)	55	0	
6/25/2020 13:00	23.7	15	27	WSW (258)	53	0.2	
6/25/2020 14:00	23.6	15	26	WNW (290)	54	0	
6/25/2020 15:00	23.6	13	22	W (276)	56	0	
6/25/2020 16:00	24.4	13	24	NW (307)	51	0	
6/25/2020 17:00	24.8	14	24	WNW (300)	49	0	
6/25/2020 18:00	24.8	13	24	NW (305)	46	0	
6/25/2020 19:00	24.8	10	17	W (274)	45	0	
6/25/2020 20:00	23.6	5	10	SW (225)	53	0	
6/25/2020 21:00	21.6	5	9	SSW (202)	53	0	
6/25/2020 22:00	21.1	7	12	SW (228)	52	0	
6/25/2020 23:00	20.6	7	12	SW (231)	57	0	
6/26/2020 0:00	19.7	9	12	SW (234)	63	0	
6/26/2020 1:00	19	8	13	SW (225)	64	0	
6/26/2020 2:00	17.9	9	12	SW (231)	68	0	
6/26/2020 3:00	17.2	7	9	SW (236)	70	0	
6/26/2020 4:00	16	7	11	SW (231)	74	0	
6/26/2020 5:00	15.3	6	8	SW (226)	76	0	
6/26/2020 6:00	15.7	3	6	WSW (252)	75	0	
6/26/2020 7:00	17.2	6	13	WSW (247)	69	0	
6/26/2020 8:00	19.5	9	15	W (279)	62	0	0.6
6/26/2020 9:00	21.6	9	16	SW (236)	56	0	
6/26/2020 10:00	23.7	13	21	W (280)	50	0	
6/26/2020 11:00	25.2	12	21	WSW (237)	47	0	
6/26/2020 12:00	25.8	13	26	W (264)	42	0	
6/26/2020 13:00	26.4	13	25	WSW (253)	40	0	
6/26/2020 14:00	26.3	15	24	W (271)	45	0	
6/26/2020 15:00	26.5	15	26	SW (217)	45	0	
6/26/2020 16:00	26.9	14	23	SW (223)	44	0	
6/26/2020 17:00	27.3	16	27	SW (225)	45	0	
6/26/2020 18:00	26.9	19	32	SW (220)	50	0	
6/26/2020 19:00	25.8	16	28	SW (219)	50	0	
6/26/2020 20:00	24.7	12	26	SW (222)	55	0	
6/26/2020 21:00	23.9	11	22	S (185)	60	0	
6/26/2020 22:00	23	9	19	S (176)	65	0	
6/26/2020 23:00	22.2	10	19	S (176)	68	0	
6/27/2020 0:00	22.1	15	26	SSW (205)	86	0	
6/27/2020 1:00	20.8	11	23	SW (230)	100	0.2	
6/27/2020 2:00	20.5	12	18	WSW (240)	100	0.2	
6/27/2020 3:00	20	7	13	SW (221)	100	0	
6/27/2020 4:00	19.6	6	10	SSW (206)	100	0.2	
6/27/2020 5:00	19.5	9	19	WSW (239)	100	0.2	
6/27/2020 6:00	19.5	11	18	WSW (258)	100	0.2	
6/27/2020 7:00	19.8	11	17	W (272)	100	0.2	
6/27/2020 8:00	20.5	11	16	WSW (256)	100	0.2	1.4
6/27/2020 9:00	21.5	12	20	WNW (303)	100	0.2	
6/27/2020 10:00	22.8	11	17	NW (314)	100	0.2	
6/27/2020 11:00	23.8	12	22	WSW (249)	96	0.2	
6/27/2020 12:00	24.6	15	25	WSW (240)	91	0.2	
6/27/2020 13:00	24.9	20	29	WSW (250)	76	0.2	
6/27/2020 14:00	25.5	16	28	WSW (251)	74	0.2	
6/27/2020 15:00	26.4	16	25	W (272)	72	0	
6/27/2020 16:00	26.8	12	21	W (281)	68	0	
6/27/2020 17:00	27.4	16	28	WNW (286)	64	0	
6/27/2020 18:00	27.6	11	20	W (259)	64	0	
6/27/2020 19:00	27.6	10	20	WNW (303)	64	0.2	
6/27/2020 20:00	26.3	8	16	WSW (255)	69	0	
6/27/2020 21:00	23.9	9	14	SSW (212)	83	0	
6/27/2020 22:00	22.3	11	20	NNW (338)	86	0	
6/27/2020 23:00	20.2	11	17	NNE (15)	85	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
6/28/2020 0:00	19.6	9	15	N (0)	78	0	
6/28/2020 1:00	18.9	9	16	N (354)	80	0	
6/28/2020 2:00	18.2	5	10	NW (309)	82	0	
6/28/2020 3:00	17.4	4	8	NW (311)	86	0	
6/28/2020 4:00	16.2	5	8	WNW (291)	100	0	
6/28/2020 5:00	15.5	7	10	W (281)	100	0	
6/28/2020 6:00	15.4	6	9	W (262)	100	0.2	
6/28/2020 7:00	17.2	8	17	NW (324)	100	0	
6/28/2020 8:00	19.2	16	23	NW (320)	96	0	1.6
6/28/2020 9:00	20.3	14	20	NW (314)	78	0	
6/28/2020 10:00	20.9	15	22	NW (315)	73	0	
6/28/2020 11:00	21.8	13	20	NNW (331)	74	0	
6/28/2020 12:00	23.3	13	22	WNW (292)	70	0	
6/28/2020 13:00	24.1	14	25	NW (315)	68	0	
6/28/2020 14:00	24.3	17	26	NW (326)	65	0	
6/28/2020 15:00	24.7	18	26	NNW (329)	64	0	
6/28/2020 16:00	25.4	16	26	NW (319)	59	0	
6/28/2020 17:00	25.5	16	25	NNW (340)	54	0	
6/28/2020 18:00	25	15	23	N (5)	55	0	
6/28/2020 19:00	24.1	11	19	NNW (332)	58	0	
6/28/2020 20:00	22.5	12	18	NNE (12)	66	0	
6/28/2020 21:00	20	7	13	N (350)	78	0	
6/28/2020 22:00	18.5	4	9	WNW (287)	83	0	
6/28/2020 23:00	17.1	5	8	WNW (285)	100	0	
6/29/2020 0:00	16.4	5	8	NNW (337)	100	0	
6/29/2020 1:00	16	5	9	WNW (286)	100	0	
6/29/2020 2:00	16	4	7	W (270)	100	0	
6/29/2020 3:00	15.9	4	7	NNW (346)	100	0	
6/29/2020 4:00	15.6	6	8	NNE (30)	100	0	
6/29/2020 5:00	15.8	7	10	N (10)	100	0	
6/29/2020 6:00	16.4	5	8	NE (36)	100	0	
6/29/2020 7:00	18.3	8	12	NNE (18)	100	0	
6/29/2020 8:00	20.8	9	13	N (11)	92	0.2	0.2
6/29/2020 9:00	22.8	8	13	NE (45)	68	0	
6/29/2020 10:00	24.8	5	10	NW (320)	59	0	
6/29/2020 11:00	26	6	14	E (101)	56	0	
6/29/2020 12:00	27.1	6	16	WNW (284)	56	0	
6/29/2020 13:00	27.1	9	23	NNW (335)	55	0	
6/29/2020 14:00	26.7	17	27	WNW (296)	53	0	
6/29/2020 15:00	27.1	15	24	N (353)	51	0.4	
6/29/2020 16:00	27.5	16	24	NNW (330)	50	4	
6/29/2020 17:00	27.3	16	25	NNW (339)	48	0	
6/29/2020 18:00	26.6	15	24	N (0)	47	0	
6/29/2020 19:00	25.9	11	21	NNW (345)	50	0	
6/29/2020 20:00	24.4	8	15	NNW (337)	55	0	
6/29/2020 21:00	22.3	4	11	NNE (17)	63	0	
6/29/2020 22:00	20.9	4	6	NNW (346)	70	0	
6/29/2020 23:00	19.8	3	5	WNW (293)	78	0	
6/30/2020 0:00	18.6	4	9	ENE (60)	82	0	
6/30/2020 1:00	18.6	4	8	NNW (333)	84	0	
6/30/2020 2:00	17.9	3	4	NNE (19)	86	0	
6/30/2020 3:00	17.4	4	8	NE (37)	92	0	
6/30/2020 4:00	17.2	7	9	NNE (25)	90	0	
6/30/2020 5:00	17	6	7	N (10)	89	0	
6/30/2020 6:00	17.4	6	9	ENE (70)	91	0	
6/30/2020 7:00	19.9	6	14	NE (49)	79	0	
6/30/2020 8:00	22.1	9	16	ENE (69)	70	0	4.4
6/30/2020 9:00	24	5	12	WNW (288)	65	0	
6/30/2020 10:00	25.8	6	14	NNE (18)	61	0	
6/30/2020 11:00	27.1	7	14	E (83)	57	0	
6/30/2020 12:00	28	8	17	ENE (67)	54	0	
6/30/2020 13:00	28	10	22	NNW (328)	59	0	
6/30/2020 14:00	27.9	11	23	NW (326)	57	0	
6/30/2020 15:00	27.4	14	22	NNE (19)	59	0	
6/30/2020 16:00	26.9	10	19	N (6)	60	0	
6/30/2020 17:00	26.5	11	22	NNW (341)	61	0	
6/30/2020 18:00	26.2	13	21	N (10)	59	0	
6/30/2020 19:00	26	10	18	NNE (33)	58	0	
6/30/2020 20:00	24.8	5	10	NW (324)	65	0	
6/30/2020 21:00	23.4	5	11	SSW (205)	73	0	
6/30/2020 22:00	22.2	4	7	S (172)	79	0	
6/30/2020 23:00	21.2	3	6	WSW (237)	81	0	

ATTACHMENT C



Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

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Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

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Nauvoo Rd south of Zion Line

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Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

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09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

Ontario Traffic, Inc.
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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Date Start: 06-Sep-19
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Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topography Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

ORNAMENT

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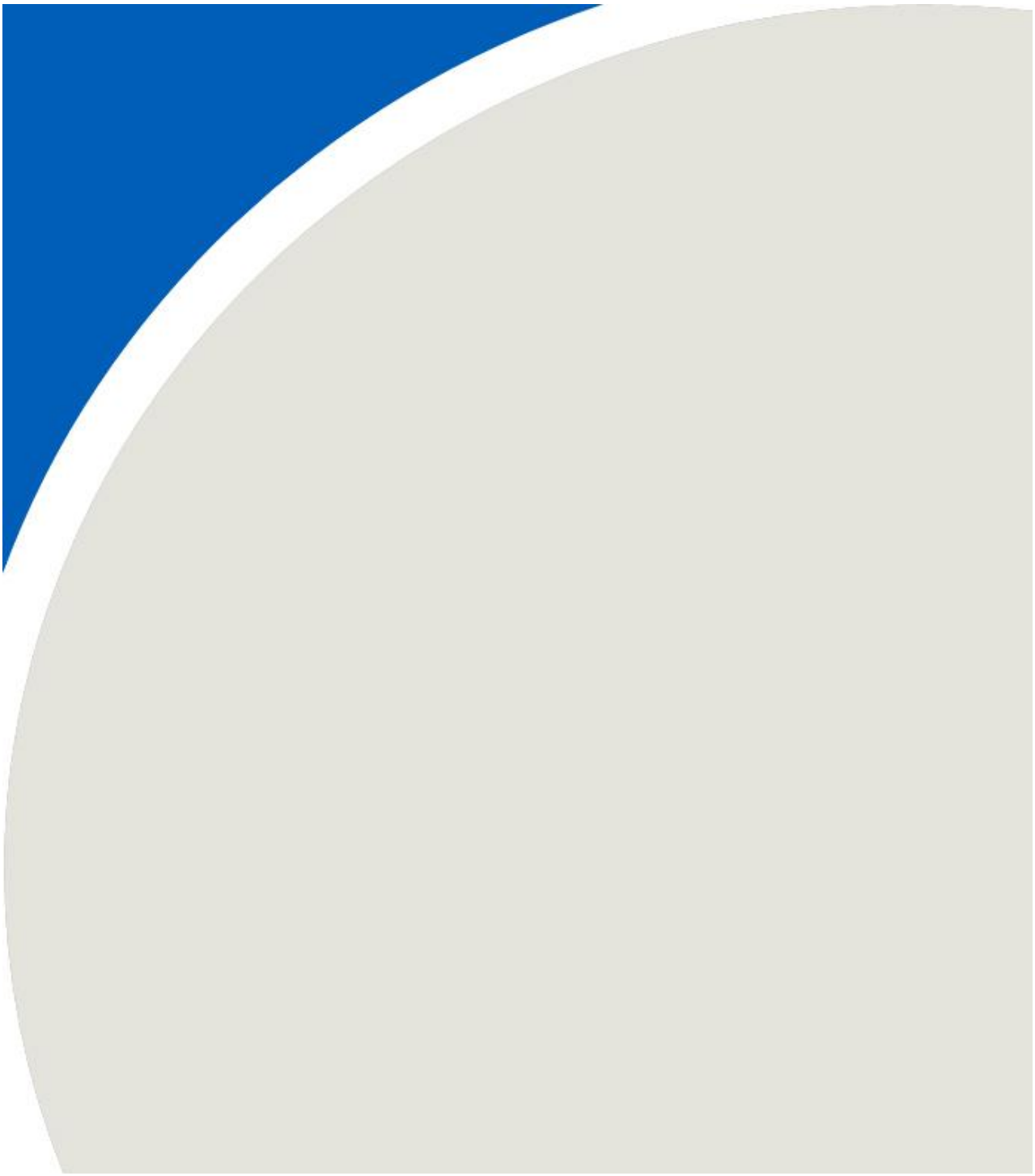
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Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

Q3



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November 26, 2020

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Third Quarter 2020 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2001313-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation has retained RWDI to conduct the Third Quarter acoustic survey for 2020 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 13, 2011. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

BEST MANAGED COMPANIES Platinum member

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Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. The current landfilling stage as described in the NMP is "Phase 4 @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 4 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	63
M2	65
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2020 Second Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ,\ 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ,\ 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	70	66	ORNAMENT Modelling	67
M2	66	N/A	Conservatively Assumed to be negligible	66
M3	63	N/A	Conservatively Assumed to be negligible	63
M4	55	N/A	Conservatively Assumed to be negligible	55

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	441	67	63	63
M2	744	Yes	440	66	52	65
M3	744	Yes	440	63	50	55
M4	744	Yes	441	55	48	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	60	4	61	55	161	280	2.5%	19.6%
M2	1	0	0	0	160	280	0.0%	0.0%
M3	3	4	1	2	160	280	2.5%	0.7%
M4	0	0	2	3	161	280	0.0%	1.1%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 64 instances during operational hours, 4 of which were greater than 3 dB above the limit. During non-operational hours, 116 hourly intervals in excess of the limit were recorded, 55 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels exceeded the hourly limit in one instance during operational hours, and this exceedance was not greater than 3 dB above the limit. During non-operational hours, zero hourly intervals in excess of the limit were recorded.

At monitor M3, measured hourly sound levels exceeded the hourly limit in seven instances during operational hours, four of which were greater than 3 dB above the limit. During non-operational hours, three hourly intervals in excess of the limit were recorded, two of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels did not exceed the hourly limit during operational hours. During non-operational hours, five hourly intervals in excess of the limit were recorded, three of which were greater than 3 dB above the limit.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational did not exceed the prescribed sound level limits as specified in the NMP at all locations. This is shown in **Table 5**.

The measured $L_{EQ,\ 1\text{-}hr}$ values during the Third Quarter did not exceed the prescribed sound level limits by 3 dB at M2 or M4 during any hourly interval while the TCEC was operational.

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than 3 dB during four hourly intervals. RWDI has reviewed the operations logs and completed investigation into the elevated sound levels at M1. The operations logs do not indicate that any abnormal activities were occurring during these events. Further investigation is required by the NMP.

At monitor M3, measured hourly sound levels exceeded the hourly limit by more than 3 dB during four hourly intervals. One occurrence of an elevated sound level had a simultaneous elevated, but quieter sound level at M2. The increase in M2 and M3 sound levels was also not observed at M1 and M4 during this time. The intervening soil stockpile and existing landfill mound each forms a barrier for sound from landfilling towards M3. The absence of a corresponding increase in sound level at M1 rules out a source associated with landfilling.

A cross-reference with RWDI UTV logs showed that one of these exceedances was due to RWDI UTV activity in the area. The two remaining exceedances occur at similar times of day and have matching sound levels to the logged UTV pass-by. These last two events are therefore attributed to UTV activity. Also of note are elevated sound levels occurring after the close of landfilling. The matching occurrences at M3 and M4, with matching sound level difference indicate a source at the Watford business park. An increase in activity at the Watford business park has been a source of elevated sound level at these monitors, with observations noted on file. See **Figure 2** for an illustration of noted businesses. Located generally to the south of M4 and to the northwest of M3, this industrial area includes a variety of newly-arrived businesses, such as a gravel sorting yard, a car parts store, a storage facility, and a hardware store, that were not envisioned or accounted for in the development of the original NMP for TCEC. Additionally, construction activity related to a new concrete ready mix plant, observed by RWDI personnel to occur on an ongoing basis since late May, is the northern-most business in this space and M3 and M4 are in closer proximity to the new construction than they are to the current landfilling stage. These sources are expected to continue to be a source of non-landfill elevated sound levels at M3 and M4.

In summary, no hourly intervals at M2 or M4 were perceptibly above the limits during TCEC operating hours in the Third Quarter. At M1 and M3, the sound levels that perceptibly exceed the prescribed sound level limits are not attributed to landfilling. Therefore, no exceedances due to landfilling activity occurred at any monitor during the Third Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI





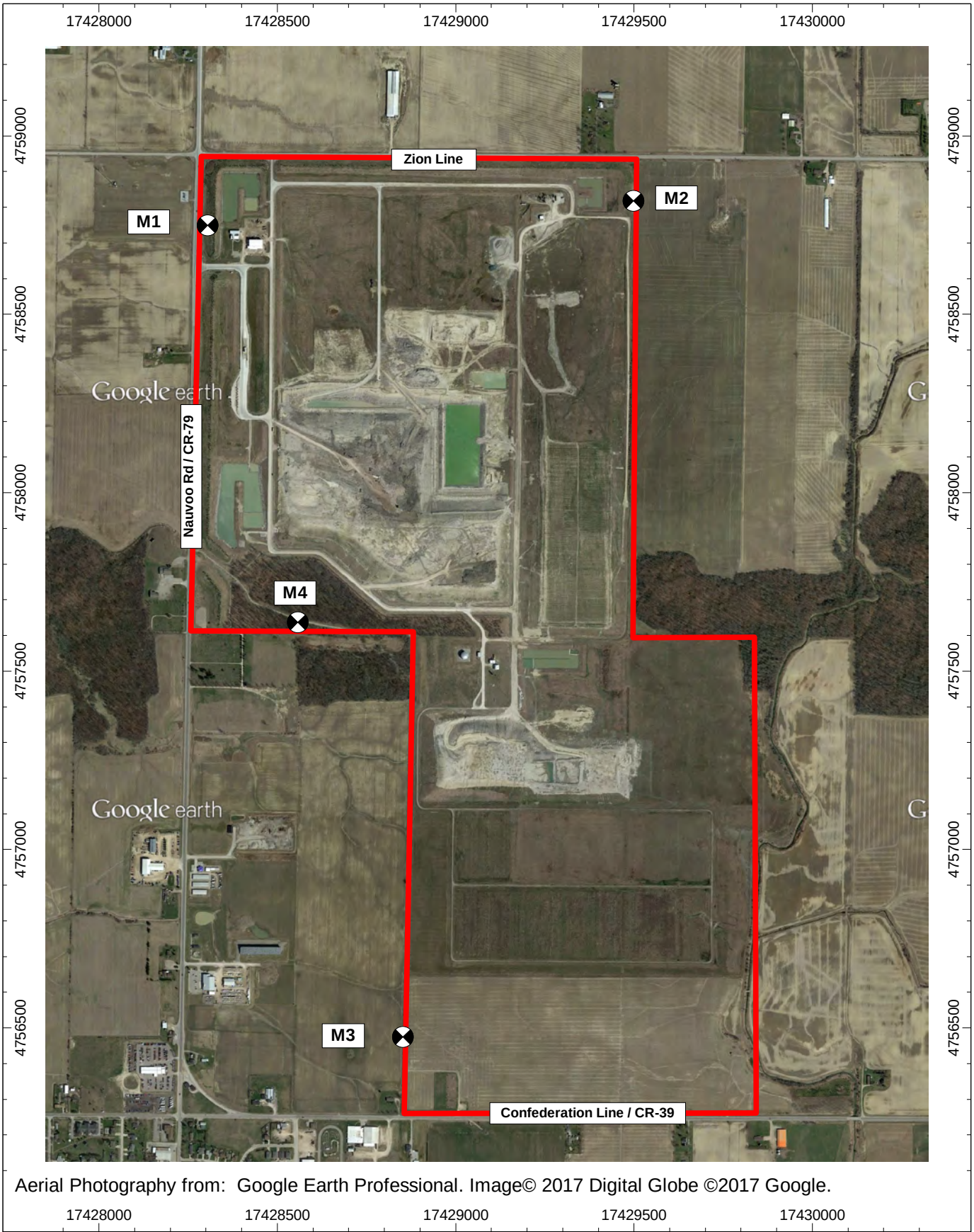
Hassan Fakih, B.Sc.
Project Manager | Scientist

Brad Bergeron, A.Sc.T., d.E.T.
Senior Consultant | Principal

HF/BCB/jo
Attach.

FIGURES





Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

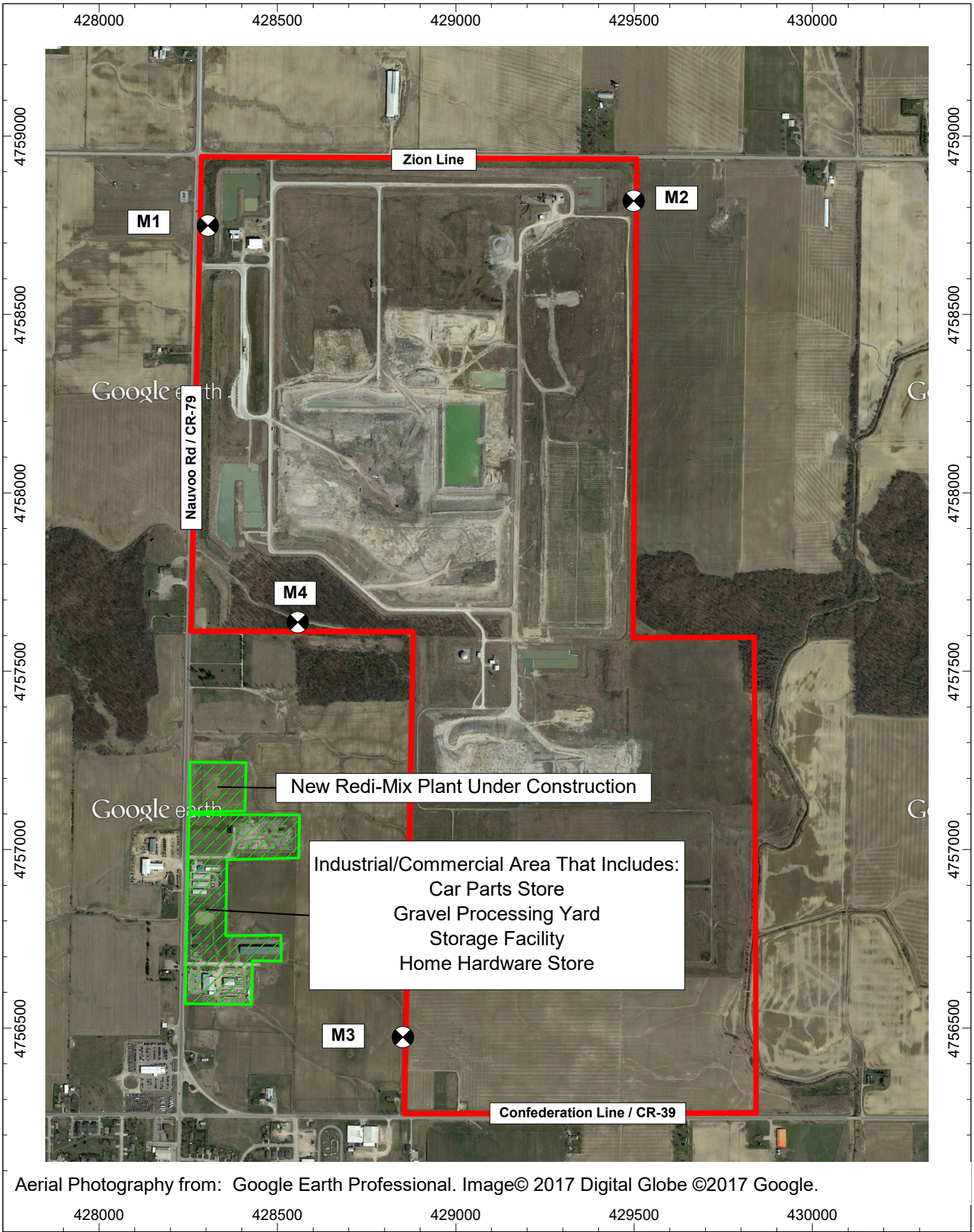
Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

Project #2001313

Drawn by: KAMH Revised by: MFA	Figure: 1
Scale:	1:15000
Date:	Nov. 26, 2019



Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Landfill, Watford, Ontario

True North

Project #2001313

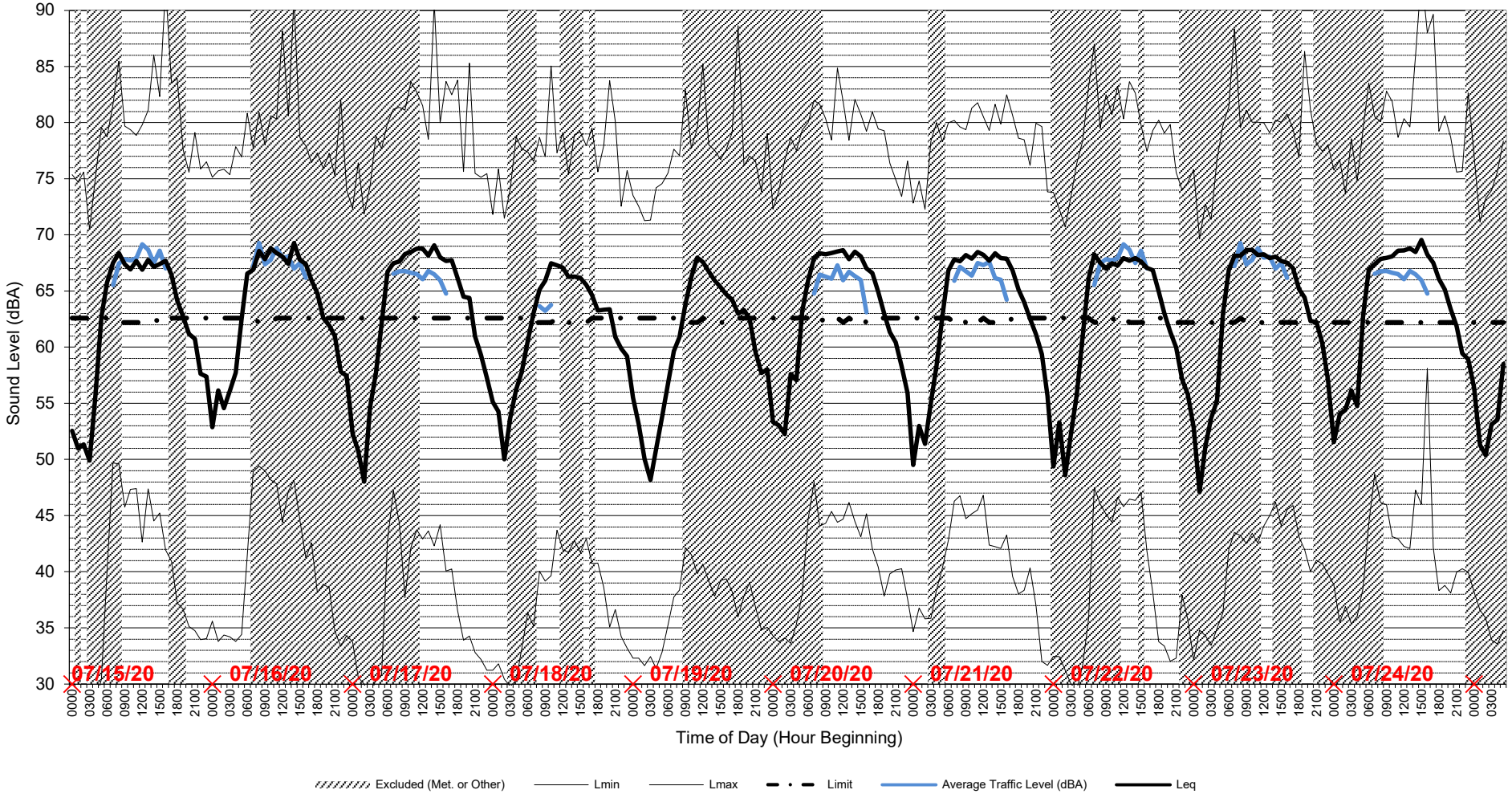
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ATTACHMENT A



Long-Term Measurement Results

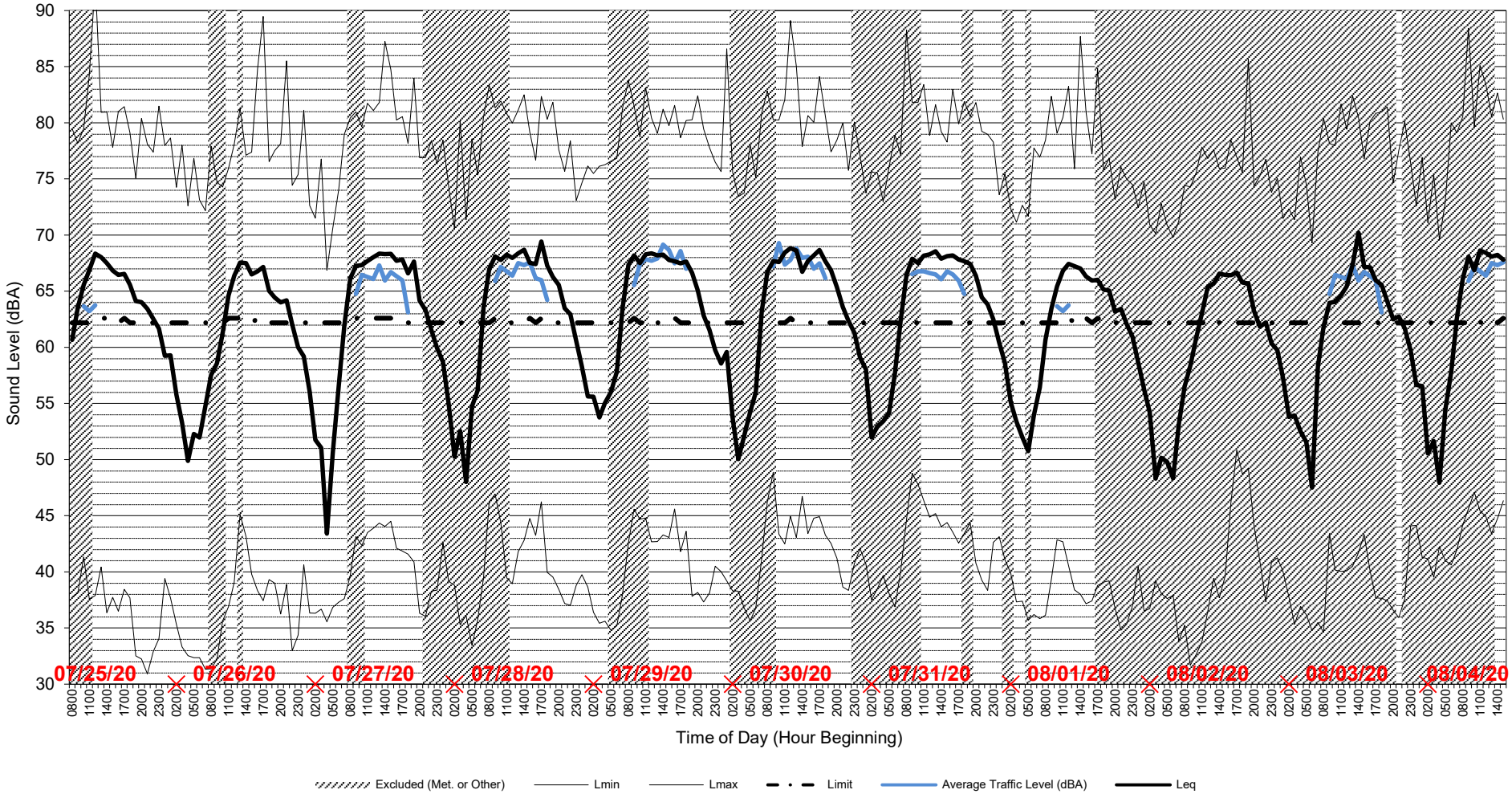
M1



Measured Ambient Sound Levels From Jul 15,2020 to Jul 25,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1a** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

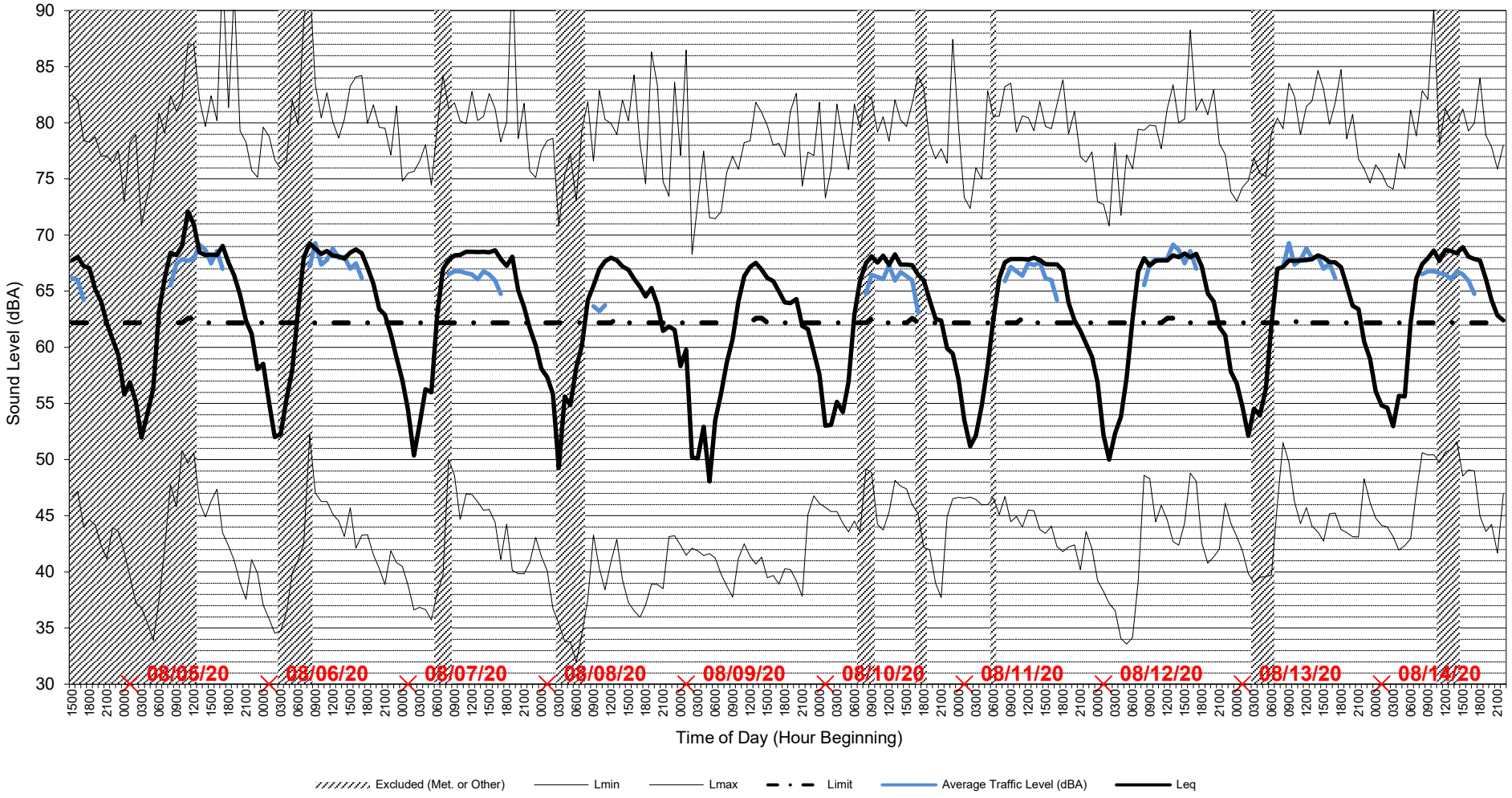
M1



Measured Ambient Sound Levels From Jul 25,2020 to Aug 4,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1b** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

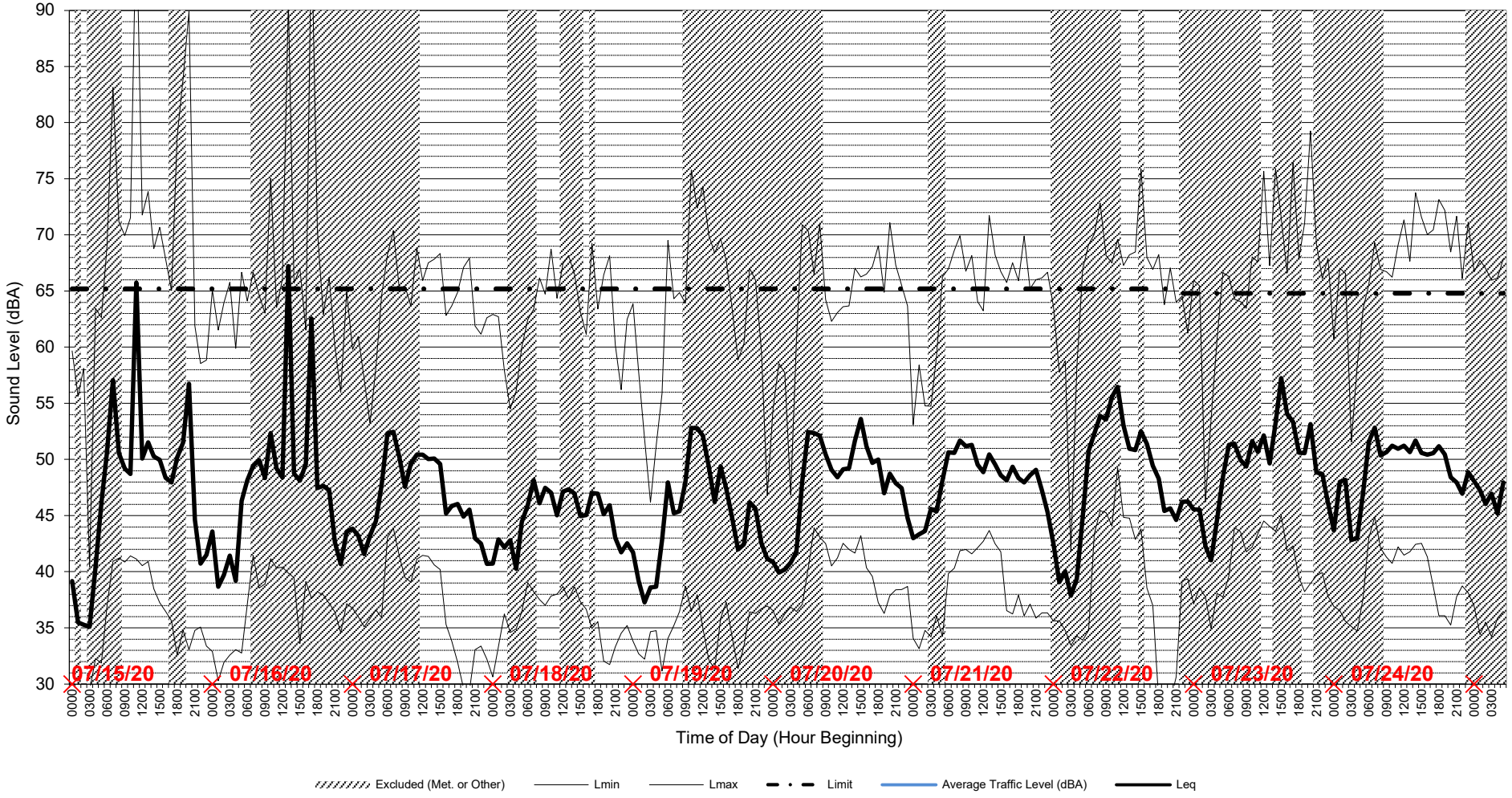
M1



Measured Ambient Sound Levels From Aug 4,2020 to Aug 14,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1c** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

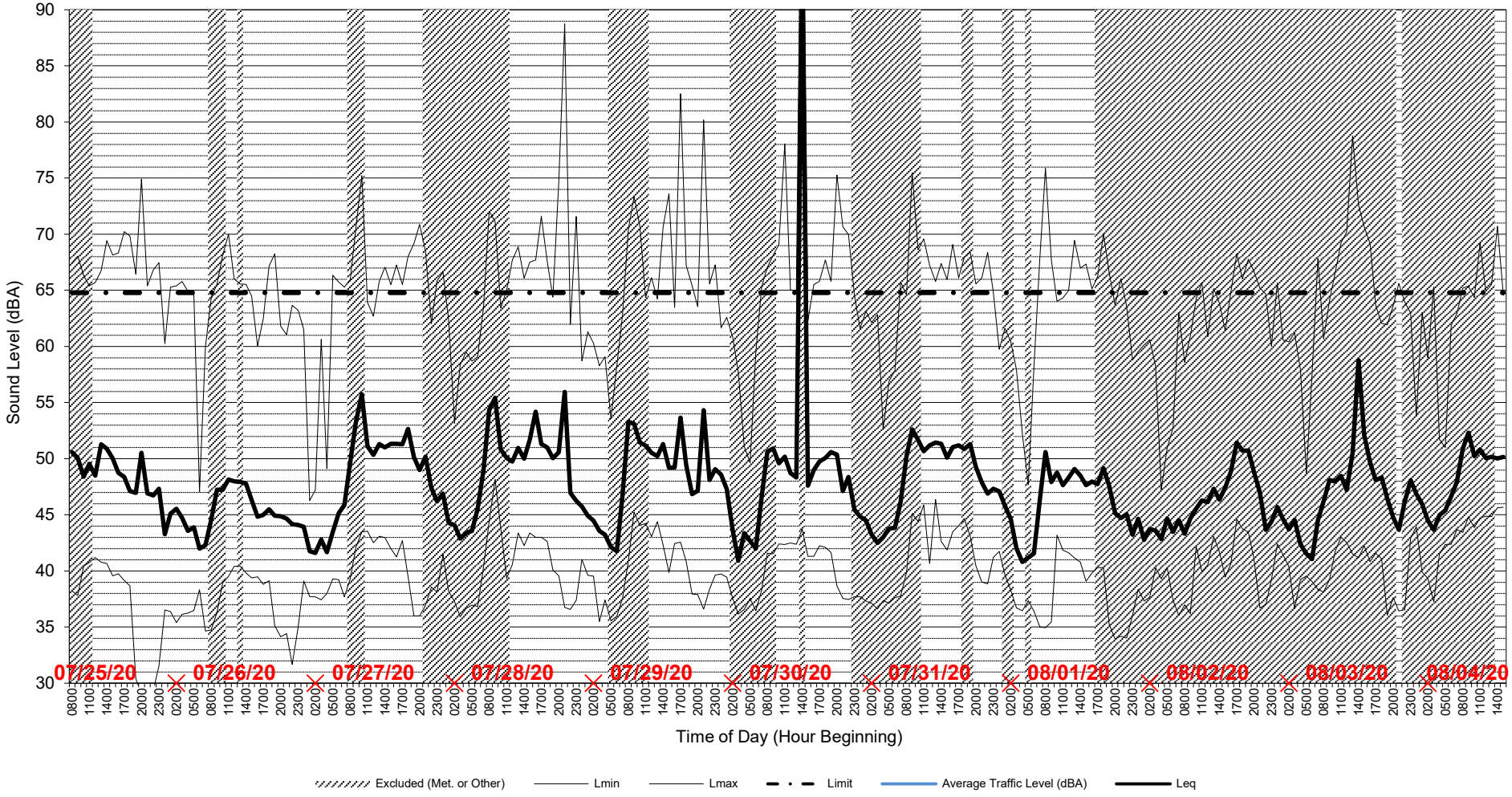
M2



Measured Ambient Sound Levels From Jul 15,2020 to Jul 25,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2a** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

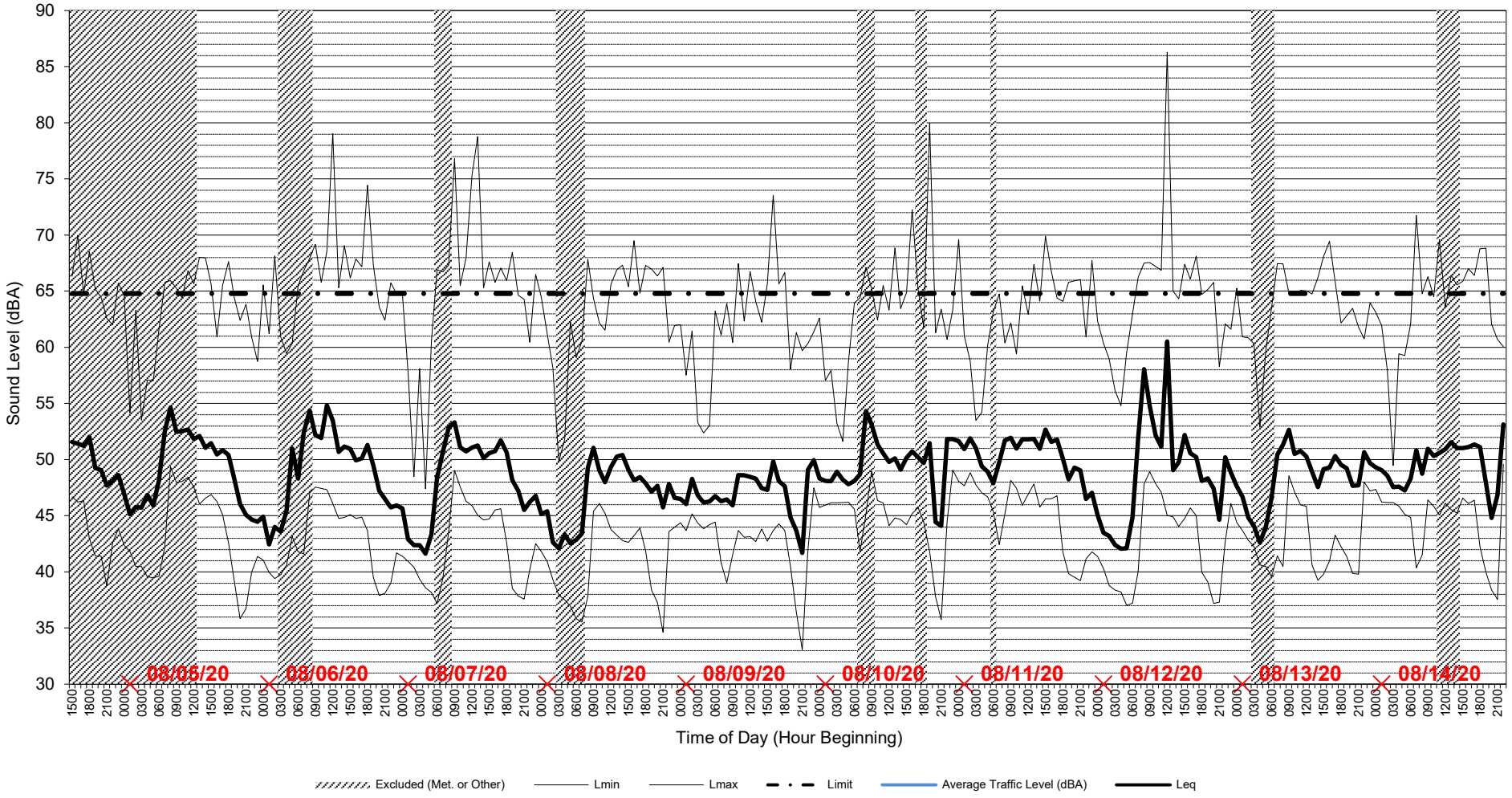
M2



Measured Ambient Sound Levels From Jul 25,2020 to Aug 4,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2b** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

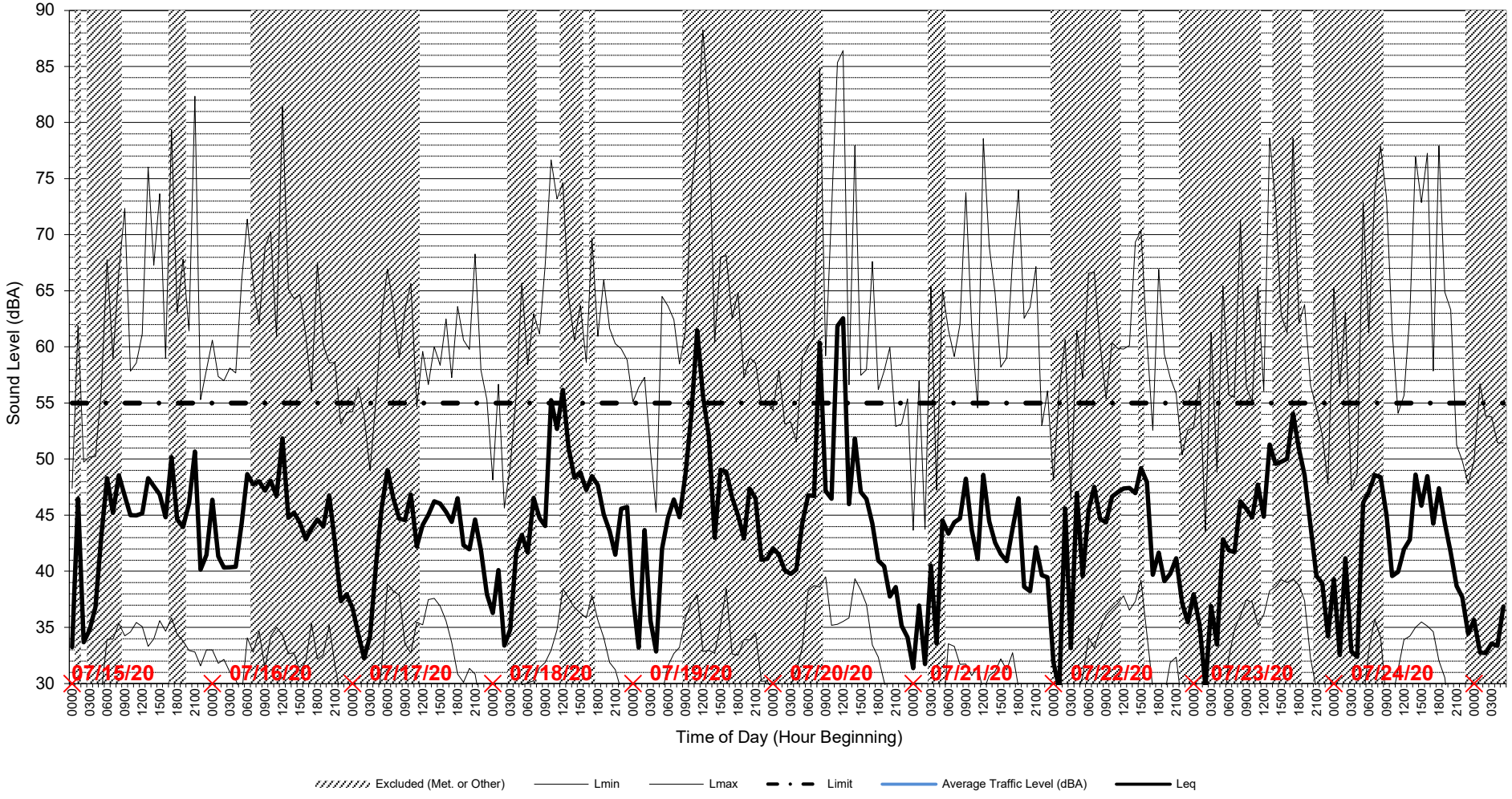
M2



Measured Ambient Sound Levels From Aug 4,2020 to Aug 14,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2c** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

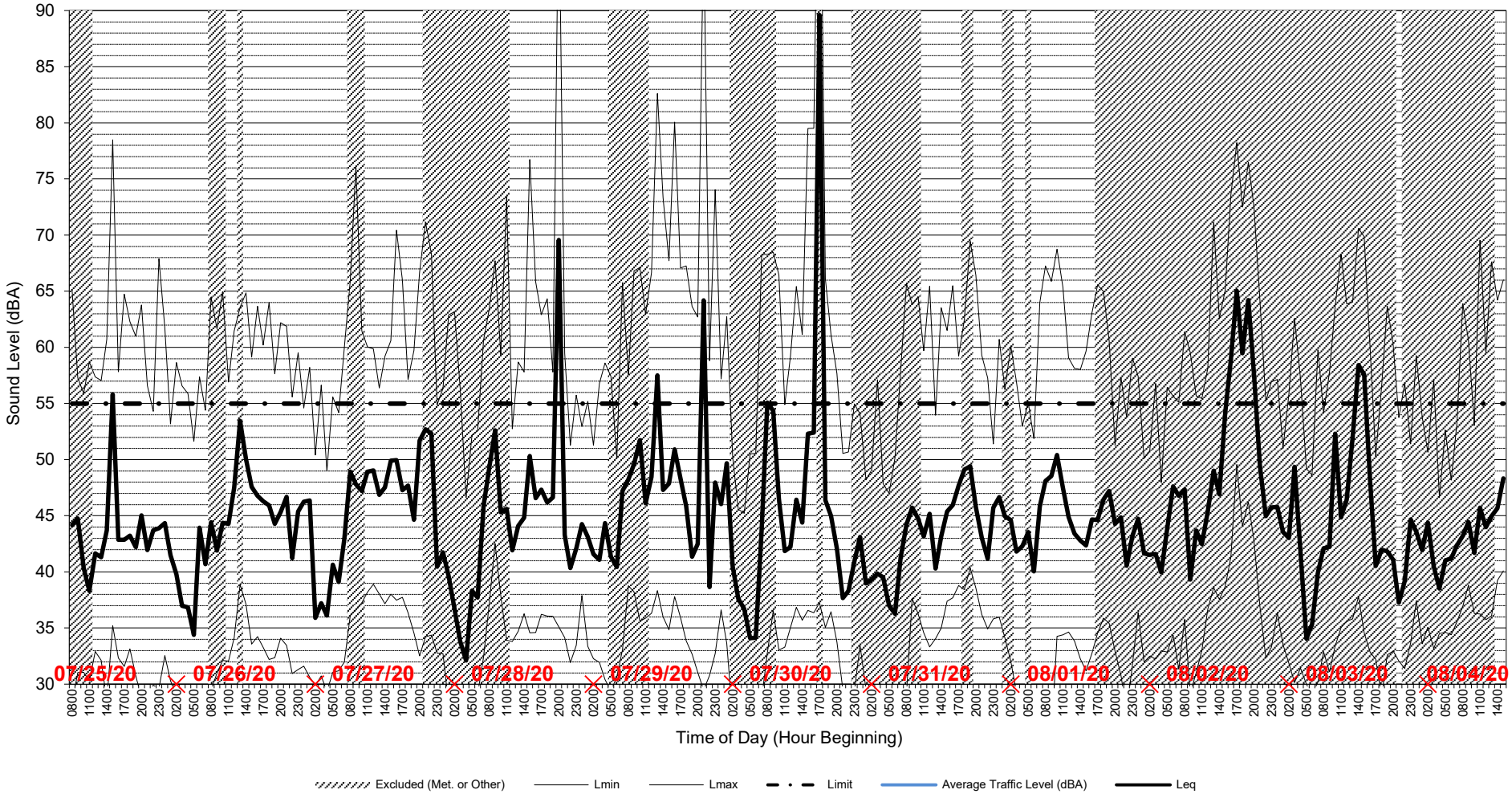
M3



Measured Ambient Sound Levels From Jul 15,2020 to Jul 25,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3a** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

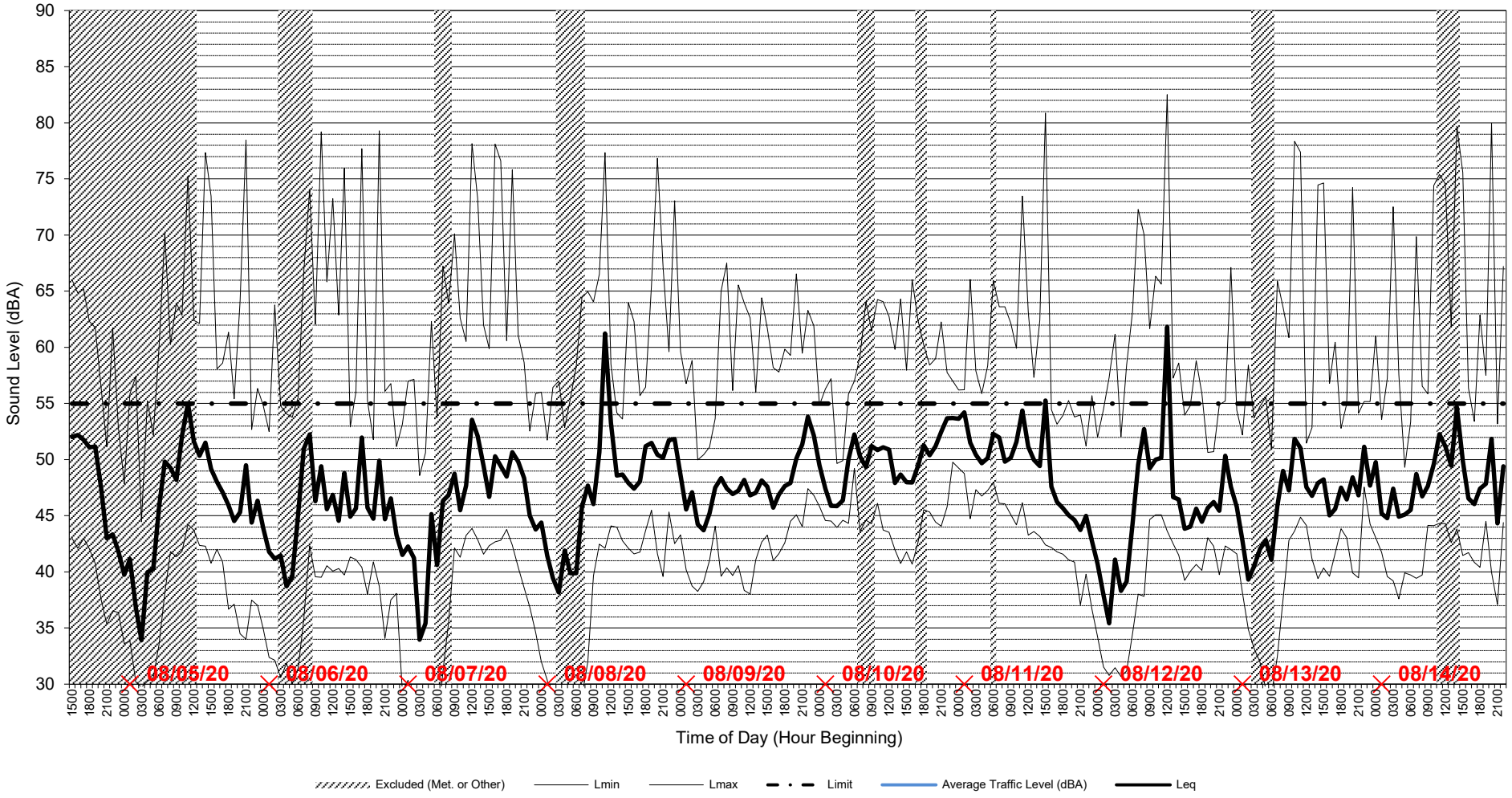
M3



Measured Ambient Sound Levels From Jul 25,2020 to Aug 4,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3b** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

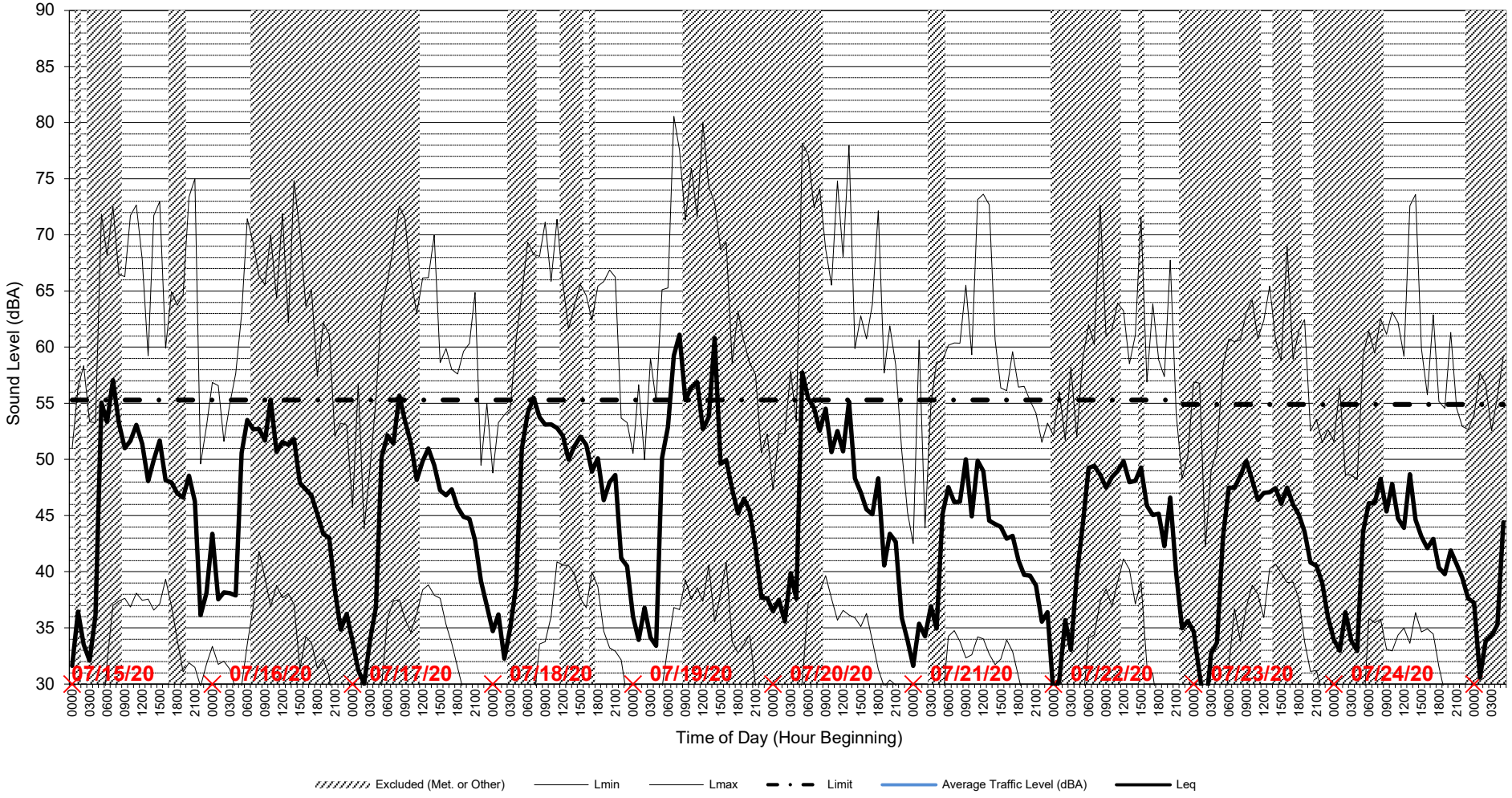
M3



Measured Ambient Sound Levels From Aug 4,2020 to Aug 14,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3c** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

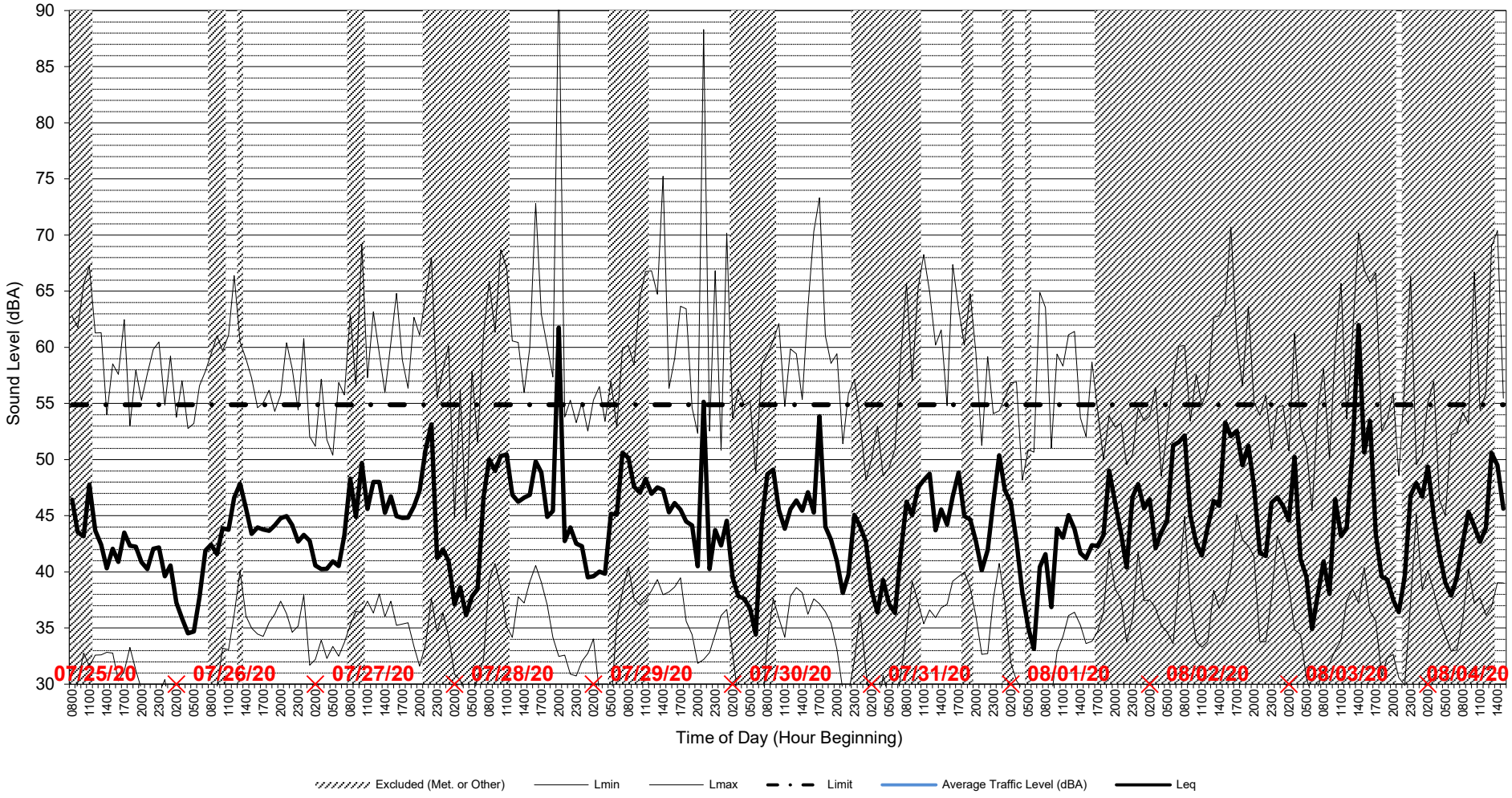
M4



Measured Ambient Sound Levels From Jul 15,2020 to Jul 25,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4a** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

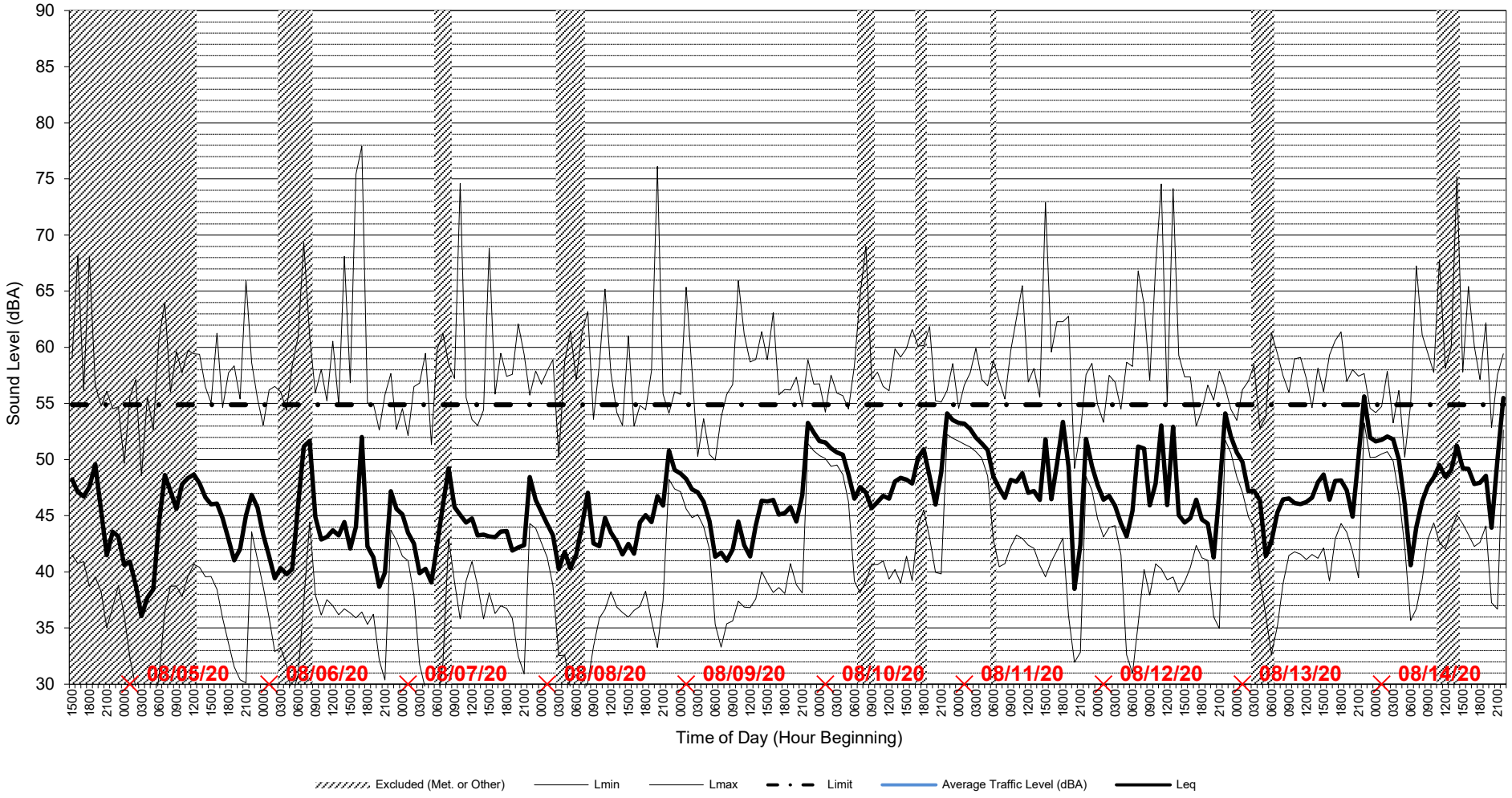
M4



Measured Ambient Sound Levels From Jul 25,2020 to Aug 4,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4b** Date: Nov 01, 2020	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Aug 4,2020 to Aug 14,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4c** Date: Nov 01, 2020	RWDI

ATTACHMENT B



Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/1/2020 0:00	20.6	3	7	S (188)	84	0	
7/1/2020 1:00	19.9	2	5	SW (225)	85	0	
7/1/2020 2:00	18.7	1	3	WSW (249)	100	0	
7/1/2020 3:00	17.9	1	5	WNW (287)	100	0	
7/1/2020 4:00	17.6	2	4	NE (36)	100	0	
7/1/2020 5:00	17.6	5	7	ENE (78)	100	0	
7/1/2020 6:00	18	4	8	ENE (62)	100	0	
7/1/2020 7:00	20.7	2	6	NNW (339)	92	0	
7/1/2020 8:00	23.2	4	8	WNW (301)	73	0	0
7/1/2020 9:00	24.9	7	14	NW (309)	65	0	
7/1/2020 10:00	26.3	10	21	NNE (13)	61	0	
7/1/2020 11:00	27.2	12	20	N (0)	56	0	
7/1/2020 12:00	27.9	11	20	N (1)	52	0	
7/1/2020 13:00	27.9	11	20	N (4)	53	0	
7/1/2020 14:00	28	14	26	N (354)	52	0	
7/1/2020 15:00	28.5	17	27	NNW (340)	51	0	
7/1/2020 16:00	28.3	17	27	N (349)	51	0	
7/1/2020 17:00	28.4	18	29	NNW (346)	48	0	
7/1/2020 18:00	27.5	18	30	NNW (334)	48	0	
7/1/2020 19:00	26.9	16	27	N (0)	47	0	
7/1/2020 20:00	25.6	12	21	N (349)	53	0	
7/1/2020 21:00	23.5	8	16	N (3)	65	0	
7/1/2020 22:00	22.2	8	12	NNW (348)	68	0	
7/1/2020 23:00	21.2	3	7	W (265)	75	0	
7/2/2020 0:00	19.9	4	10	W (261)	80	0	
7/2/2020 1:00	18.6	6	11	W (281)	86	0	
7/2/2020 2:00	18.2	3	8	NW (325)	100	0	
7/2/2020 3:00	18.1	5	8	N (0)	100	0	
7/2/2020 4:00	18	5	9	WNW (288)	100	0	
7/2/2020 5:00	17.9	5	9	WNW (301)	100	0	
7/2/2020 6:00	18	4	8	NW (304)	100	0	
7/2/2020 7:00	19.6	6	11	NW (318)	100	0	
7/2/2020 8:00	22.2	9	16	NW (310)	93	0	0
7/2/2020 9:00	24.3	10	19	NNW (339)	68	0	
7/2/2020 10:00	25.9	13	22	NNW (336)	57	0	
7/2/2020 11:00	27.1	15	23	WNW (302)	51	0	
7/2/2020 12:00	27.8	15	24	NNW (330)	44	0	
7/2/2020 13:00	28.6	14	26	NW (312)	43	0	
7/2/2020 14:00	29	14	23	NNW (341)	44	0	
7/2/2020 15:00	29.1	15	23	NW (309)	43	0	
7/2/2020 16:00	29.5	15	25	NW (313)	42	0	
7/2/2020 17:00	29.8	16	23	NW (305)	39	0	
7/2/2020 18:00	29.7	13	20	NNW (331)	40	0	
7/2/2020 19:00	29.3	9	14	NW (319)	42	0	
7/2/2020 20:00	28.2	4	7	W (262)	50	0	
7/2/2020 21:00	26	3	4	SSW (207)	58	0	
7/2/2020 22:00	23.7	2	4	SSW (195)	71	0	
7/2/2020 23:00	23.4	5	8	WSW (251)	68	0	
7/3/2020 0:00	23	7	9	SW (223)	68	0	
7/3/2020 1:00	22.6	5	8	WSW (254)	70	0	
7/3/2020 2:00	21.3	3	6	SSW (205)	76	0	
7/3/2020 3:00	21.1	5	8	WSW (242)	75	0	
7/3/2020 4:00	20.6	5	7	W (272)	78	0	
7/3/2020 5:00	20.3	4	6	WNW (294)	80	0	
7/3/2020 6:00	20.1	5	7	W (263)	80	0	
7/3/2020 7:00	21.9	9	16	NW (304)	81	0	
7/3/2020 8:00	23.6	13	22	NW (324)	78	0	0
7/3/2020 9:00	24.6	15	22	NNW (341)	75	0	
7/3/2020 10:00	25.6	15	23	NW (308)	70	0	
7/3/2020 11:00	26.3	17	25	WNW (302)	70	0	
7/3/2020 12:00	26.6	18	26	NW (318)	70	0	
7/3/2020 13:00	27.7	16	24	NNW (332)	66	0	
7/3/2020 14:00	28.7	16	28	N (354)	64	0	
7/3/2020 15:00	29.1	15	25	NW (314)	60	0	
7/3/2020 16:00	29.3	16	26	NNW (340)	58	0	
7/3/2020 17:00	29.2	14	21	NW (323)	59	0	
7/3/2020 18:00	29	15	25	NNE (12)	60	0	
7/3/2020 19:00	27.2	12	25	NW (323)	65	0	
7/3/2020 20:00	25.7	9	18	N (0)	70	0	
7/3/2020 21:00	23.6	8	15	N (350)	77	0	
7/3/2020 22:00	22.2	11	17	NNW (345)	84	0	
7/3/2020 23:00	21.5	12	23	N (11)	87	0	
7/4/2020 0:00	21	7	16	NNW (343)	88	0	
7/4/2020 1:00	20	5	9	N (11)	100	0	
7/4/2020 2:00	19.5	5	10	W (262)	100	0	
7/4/2020 3:00	18.7	3	5	NW (325)	100	0	
7/4/2020 4:00	18.6	5	9	N (1)	100	0	
7/4/2020 5:00	18.6	8	13	N (2)	100	0	
7/4/2020 6:00	18.7	3	9	NNW (336)	100	0	
7/4/2020 7:00	20	6	12	NE (35)	100	0	
7/4/2020 8:00	22.4	8	12	NE (45)	100	0	0
7/4/2020 9:00	24.7	8	15	NNE (32)	66	0	
7/4/2020 10:00	25.9	10	17	ENE (69)	56	0	
7/4/2020 11:00	27.6	12	20	NE (36)	46	0	
7/4/2020 12:00	28.3	10	21	NW (304)	40	0	
7/4/2020 13:00	29.1	10	23	N (4)	37	0	
7/4/2020 14:00	29.2	13	27	NNW (336)	39	0	
7/4/2020 15:00	28.7	20	29	NNW (329)	41	0	
7/4/2020 16:00	28.4	18	29	NNE (12)	34	0	
7/4/2020 17:00	27.8	15	27	N (354)	34	0	
7/4/2020 18:00	27.8	12	19	WNW (294)	32	0	
7/4/2020 19:00	26.9	11	18	NNW (328)	34	0	
7/4/2020 20:00	24.5	10	16	N (5)	47	0	
7/4/2020 21:00	21.4	5	12	N (7)	58	0	
7/4/2020 22:00	20	5	8	NE (44)	63	0	
7/4/2020 23:00	19	6	8	ENE (71)	68	0	
7/5/2020 0:00	19	10	16	E (79)	66	0	
7/5/2020 1:00	18.9	6	13	E (86)	68	0	
7/5/2020 2:00	18.2	2	5	ESE (105)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/5/2020 3:00	17.7	5	9	SE (132)	71	0	
7/5/2020 4:00	16.9	5	16	SW (226)	86	0	
7/5/2020 5:00	14.4	3	8	NNE (33)	97	0	
7/5/2020 6:00	15	4	7	NNE (21)	100	0	
7/5/2020 7:00	18.5	3	7	N (0)	79	0	
7/5/2020 8:00	21.5	4	7	NNE (12)	73	0	0
7/5/2020 9:00	24.3	2	7	NNW (329)	58	0	
7/5/2020 10:00	26.2	5	10	WNW (301)	48	0	
7/5/2020 11:00	27.5	9	17	NW (316)	44	0	
7/5/2020 12:00	28.6	11	21	NW (310)	37	0	
7/5/2020 13:00	29	13	23	NNW (331)	35	0	
7/5/2020 14:00	29.6	10	20	NW (313)	35	0	
7/5/2020 15:00	30.3	7	19	NE (50)	35	0	
7/5/2020 16:00	30.9	7	17	N (350)	33	0	
7/5/2020 17:00	31	9	18	NW (322)	33	0	
7/5/2020 18:00	30.7	10	19	N (2)	35	0	
7/5/2020 19:00	30	11	19	NE (43)	35	0	
7/5/2020 20:00	27.6	8	14	ENE (69)	45	0	
7/5/2020 21:00	25.1	9	13	ESE (123)	50	0	
7/5/2020 22:00	23.7	6	12	S (185)	55	0	
7/5/2020 23:00	23	4	9	SW (214)	62	0	
7/6/2020 0:00	22.1	4	7	W (268)	65	0	
7/6/2020 1:00	20.9	3	7	SW (229)	71	0	
7/6/2020 2:00	19.8	2	4	W (276)	75	0	
7/6/2020 3:00	18.9	7	12	ENE (78)	75	0	
7/6/2020 4:00	18.9	7	9	ESE (110)	74	0	
7/6/2020 5:00	19.2	7	9	ESE (105)	70	0	
7/6/2020 6:00	19.3	5	7	ESE (121)	73	0	
7/6/2020 7:00	22.9	4	8	ESE (120)	65	0	
7/6/2020 8:00	25.4	5	10	SSE (159)	58	0	0
7/6/2020 9:00	27.6	6	12	SW (220)	50	0	
7/6/2020 10:00	29.2	7	16	WSW (258)	43	0	
7/6/2020 11:00	30.3	8	18	SSE (165)	37	0	
7/6/2020 12:00	31.1	8	19	WSW (255)	36	0	
7/6/2020 13:00	31.7	7	17	SSE (164)	36	0	
7/6/2020 14:00	32.1	7	16	S (188)	36	0	
7/6/2020 15:00	32.8	7	22	WSW (258)	36	0	
7/6/2020 16:00	33.2	8	18	WSW (240)	34	0	
7/6/2020 17:00	32.6	7	14	WSW (241)	35	0	
7/6/2020 18:00	32	12	21	SSW (195)	38	0	
7/6/2020 19:00	31.2	12	21	S (185)	41	0	
7/6/2020 20:00	29.5	9	19	SSE (164)	47	0	
7/6/2020 21:00	27.7	10	14	S (169)	51	0	
7/6/2020 22:00	26.5	9	13	S (171)	52	0	
7/6/2020 23:00	25.9	9	12	SSE (163)	51	0	
7/7/2020 0:00	25.1	8	13	SSW (207)	54	0	
7/7/2020 1:00	23.6	8	11	SSE (148)	62	0	
7/7/2020 2:00	22.5	9	12	SE (134)	66	0	
7/7/2020 3:00	21.8	8	11	SSE (156)	75	0	
7/7/2020 4:00	21.4	10	15	SE (128)	85	0	
7/7/2020 5:00	21.1	9	16	SE (137)	97	0	
7/7/2020 6:00	21.5	10	16	SE (133)	99	0	
7/7/2020 7:00	23.7	7	13	S (176)	88	0	
7/7/2020 8:00	25.7	6	12	S (171)	75	0	0
7/7/2020 9:00	27.1	8	17	WSW (243)	66	0	
7/7/2020 10:00	28.3	6	14	SW (236)	64	0	
7/7/2020 11:00	29.8	9	24	WSW (255)	57	0	
7/7/2020 12:00	30.8	16	28	NW (309)	50	0	
7/7/2020 13:00	31.6	14	23	WNW (286)	46	0	
7/7/2020 14:00	32.1	13	24	NW (321)	45	0	
7/7/2020 15:00	32.4	11	22	NNW (339)	45	0	
7/7/2020 16:00	32.7	10	21	WNW (287)	45	0	
7/7/2020 17:00	31.4	12	37	NNW (342)	64	0	
7/7/2020 18:00	26.3	18	32	NNW (329)	66	0	
7/7/2020 19:00	26.6	10	24	S (190)	66	0	
7/7/2020 20:00	25.6	18	30	S (170)	68	0	
7/7/2020 21:00	25.7	13	18	SSE (155)	66	0	
7/7/2020 22:00	24	10	20	SSW (208)	82	0	
7/7/2020 23:00	23.9	10	16	S (187)	82	0	
7/8/2020 0:00	23.6	7	12	SW (226)	76	0	
7/8/2020 1:00	23.1	10	16	SW (218)	81	0	
7/8/2020 2:00	22.3	5	9	SW (229)	86	0	
7/8/2020 3:00	21.6	2	6	SW (229)	96	0	
7/8/2020 4:00	21.4	4	6	NW (322)	100	0	
7/8/2020 5:00	21.3	6	10	S (172)	100	0	
7/8/2020 6:00	21.7	6	11	SSE (159)	90	0	
7/8/2020 7:00	22.5	8	16	SSE (158)	87	0	
7/8/2020 8:00	24.1	10	16	SW (215)	81	0	0
7/8/2020 9:00	25.9	8	13	W (273)	74	0	
7/8/2020 10:00	27.2	8	14	SSE (168)	72	0	
7/8/2020 11:00	28.9	9	17	SW (221)	68	0	
7/8/2020 12:00	30.1	9	18	W (270)	61	0	
7/8/2020 13:00	31	8	20	WSW (243)	60	0	
7/8/2020 14:00	30.8	9	17	NW (307)	61	0	
7/8/2020 15:00	29.2	14	36	SSW (207)	69	0	
7/8/2020 16:00	26	18	29	SE (141)	75	0	
7/8/2020 17:00	28	9	17	SW (233)	65	0	
7/8/2020 18:00	29.1	5	14	ENE (57)	62	0	
7/8/2020 19:00	29.2	5	9	NNW (333)	63	0	
7/8/2020 20:00	28.4	5	13	SSW (210)	70	0	
7/8/2020 21:00	26.1	4	8	SW (228)	85	0	
7/8/2020 22:00	24.2	2	6	SE (134)	91	0	
7/8/2020 23:00	23.8	3	7	NW (318)	100	0	
7/9/2020 0:00	23.1	3	11	ENE (60)	100	0	
7/9/2020 1:00	22.2	1	3	E (79)	100	0	
7/9/2020 2:00	22.5	4	7	SE (144)	100	0	
7/9/2020 3:00	21.7	4	6	ESE (122)	100	0	
7/9/2020 4:00	21.6	4	7	ESE (113)	100	0	
7/9/2020 5:00	21.4	5	8	ESE (109)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/9/2020 6:00	21.7	7	11	E (92)	100	0	
7/9/2020 7:00	23.4	7	12	S (170)	100	0	
7/9/2020 8:00	25	7	16	SE (142)	100	0	0
7/9/2020 9:00	27.3	15	20	S (172)	93	0	
7/9/2020 10:00	29.5	14	21	SE (141)	67	0	
7/9/2020 11:00	30	15	25	SSW (192)	64	0	
7/9/2020 12:00	31	14	24	S (178)	58	0	
7/9/2020 13:00	31.5	16	31	S (177)	58	0	
7/9/2020 14:00	31.9	16	27	S (179)	58	0	
7/9/2020 15:00	No Meteorological Data Recorded for Time Interval[1]						
7/9/2020 16:00	32.9	14	18	SSE (161)	46	0	
7/9/2020 17:00	33	16	24	SSE (160)	48	0	
7/9/2020 18:00	32.5	16	23	S (179)	47	0	
7/9/2020 19:00	31.2	11	19	SE (144)	50	0	
7/9/2020 20:00	28.7	11	25	NNW (330)	73	0	
7/9/2020 21:00	25	9	14	NE (44)	75	0	
7/9/2020 22:00	23.9	9	13	ENE (74)	78	0	
7/9/2020 23:00	23.4	9	13	ENE (77)	80	0	
7/10/2020 0:00	23.1	5	9	SE (128)	78	0	
7/10/2020 1:00	23.1	7	10	ESE (115)	82	0	
7/10/2020 2:00	22.8	5	10	E (92)	85	0	
7/10/2020 3:00	22.7	7	11	SE (143)	91	0	
7/10/2020 4:00	23.3	10	17	SE (130)	100	0	
7/10/2020 5:00	23.2	14	18	SE (132)	100	0	
7/10/2020 6:00	22.9	13	17	SE (129)	100	0	
7/10/2020 7:00	24.2	15	20	ESE (120)	100	0	
7/10/2020 8:00	26.4	17	26	SSE (162)	100	0	0
7/10/2020 9:00	28.5	15	24	SSE (154)	77	0	
7/10/2020 10:00	29.9	13	23	WSW (246)	68	0	
7/10/2020 11:00	30.7	14	25	WSW (244)	63	0	
7/10/2020 12:00	24.1	14	32	SSW (193)	89	0	
7/10/2020 13:00	25.7	15	41	ENE (66)	82	0	
7/10/2020 14:00	27.7	13	21	NE (36)	77	0.2	
7/10/2020 15:00	29.1	20	67	W (265)	81	3.4	
7/10/2020 16:00	23.6	19	40	NW (313)	100	0	
7/10/2020 17:00	23.5	11	26	SE (133)	100	0.4	
7/10/2020 18:00	21.9	20	33	SSE (156)	100	2.2	
7/10/2020 19:00	21.5	5	14	SE (130)	100	0	
7/10/2020 20:00	21.6	4	11	SW (230)	100	0	
7/10/2020 21:00	21.1	5	11	ENE (68)	100	0	
7/10/2020 22:00	20.8	5	9	N (354)	100	0	
7/10/2020 23:00	20.7	5	7	NW (312)	100	0	
7/11/2020 0:00	20.5	4	9	NNW (342)	100	0	
7/11/2020 1:00	20.5	5	9	NE (46)	100	0	
7/11/2020 2:00	20.6	4	8	NW (313)	100	1.4	
7/11/2020 3:00	20.7	4	8	N (0)	100	2	
7/11/2020 4:00	20.7	6	11	NNW (332)	100	0.2	
7/11/2020 5:00	21.2	13	26	NNW (334)	100	0	
7/11/2020 6:00	21	20	31	NNW (336)	100	0	
7/11/2020 7:00	20.1	24	40	NW (319)	100	0.2	
7/11/2020 8:00	19.7	22	36	NNW (330)	100	0.2	10.2
7/11/2020 9:00	19.7	22	31	NW (322)	100	0	
7/11/2020 10:00	20.2	24	35	NW (322)	100	0	
7/11/2020 11:00	21.7	24	35	NW (318)	98	0	
7/11/2020 12:00	23.2	28	40	NW (310)	86	0	
7/11/2020 13:00	24.4	29	43	NW (307)	70	0	
7/11/2020 14:00	25.2	30	45	NW (321)	65	0	
7/11/2020 15:00	25.9	24	40	NNW (330)	62	0	
7/11/2020 16:00	26.2	21	31	NNW (346)	60	0	
7/11/2020 17:00	26.5	18	25	NW (318)	58	0	
7/11/2020 18:00	26.1	14	22	N (351)	58	0	
7/11/2020 19:00	25.3	10	18	NW (316)	59	0	
7/11/2020 20:00	24.2	5	10	NW (324)	68	0	
7/11/2020 21:00	21.9	5	9	NE (49)	77	0	
7/11/2020 22:00	20.6	1	5	W (263)	83	0	
7/11/2020 23:00	19.8	3	7	WSW (254)	87	0	
7/12/2020 0:00	18.9	4	6	NW (311)	95	0	
7/12/2020 1:00	18.2	6	10	NW (311)	100	0	
7/12/2020 2:00	18.3	5	10	NW (324)	100	0	
7/12/2020 3:00	17.9	5	8	WSW (250)	100	0	
7/12/2020 4:00	17.5	4	5	WNW (284)	100	0	
7/12/2020 5:00	17.2	5	6	W (264)	100	0	
7/12/2020 6:00	17.1	3	7	WSW (247)	100	0	
7/12/2020 7:00	18.1	3	5	SW (230)	100	0	
7/12/2020 8:00	19.9	7	16	W (266)	100	0	0
7/12/2020 9:00	20.5	12	20	NW (316)	100	0	
7/12/2020 10:00	21.3	14	23	W (281)	79	0	
7/12/2020 11:00	21.6	17	25	NW (312)	71	0	
7/12/2020 12:00	21.8	16	24	NW (304)	70	0	
7/12/2020 13:00	21.8	16	27	NNW (333)	73	0	
7/12/2020 14:00	22.3	16	23	NW (304)	72	0	
7/12/2020 15:00	22.4	16	30	WNW (297)	74	0	
7/12/2020 16:00	22.4	16	28	NNW (331)	72	0	
7/12/2020 17:00	21.8	15	25	N (354)	73	0	
7/12/2020 18:00	21.6	17	24	NNW (347)	69	0	
7/12/2020 19:00	20.2	16	25	NNW (336)	72	0	
7/12/2020 20:00	19.4	12	21	NW (305)	77	0	
7/12/2020 21:00	18.6	9	16	N (350)	82	0	
7/12/2020 22:00	17.3	5	11	N (354)	90	0	
7/12/2020 23:00	16.4	3	7	WNW (282)	100	0	
7/13/2020 0:00	15.7	5	9	SW (225)	100	0	
7/13/2020 1:00	15.2	6	9	NW (317)	100	0	
7/13/2020 2:00	15.2	4	8	WSW (244)	100	0	
7/13/2020 3:00	15.4	5	8	WNW (293)	100	0	
7/13/2020 4:00	15.9	5	8	WNW (300)	100	0	
7/13/2020 5:00	16.3	6	9	W (261)	100	0	
7/13/2020 6:00	16.4	7	12	W (272)	100	1	
7/13/2020 7:00	16.9	8	16	NW (325)	100	0.2	
7/13/2020 8:00	19.1	15	23	NNW (342)	100	0	1.2

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/13/2020 9:00	19.7	16	23	NW (308)	100	0	
7/13/2020 10:00	19.8	16	23	NW (308)	92	0	
7/13/2020 11:00	20.2	18	26	NW (313)	87	0	
7/13/2020 12:00	20.4	18	26	NW (325)	76	0	
7/13/2020 13:00	21.1	16	28	NNW (343)	73	0	
7/13/2020 14:00	21.6	19	30	NNW (329)	69	0	
7/13/2020 15:00	21.7	18	30	NW (320)	66	0	
7/13/2020 16:00	22.1	16	24	NNW (340)	60	0	
7/13/2020 17:00	22.8	14	24	NNW (342)	52	0	
7/13/2020 18:00	22.6	13	22	N (2)	59	0	
7/13/2020 19:00	21.6	11	18	NW (326)	64	0	
7/13/2020 20:00	20.1	8	13	NNW (332)	76	0	
7/13/2020 21:00	18.2	7	10	N (354)	83	0	
7/13/2020 22:00	17.2	6	11	NNW (344)	99	0	
7/13/2020 23:00	16.3	4	8	NNW (346)	100	0	
7/14/2020 0:00	15.6	2	6	W (269)	100	0	
7/14/2020 1:00	15.2	2	4	NNW (327)	100	0	
7/14/2020 2:00	15	2	7	N (7)	100	0	
7/14/2020 3:00	14.8	0	2	SSE (167)	100	0	
7/14/2020 4:00	14.4	5	8	WSW (243)	100	0	
7/14/2020 5:00	14.2	2	5	W (263)	100	0	
7/14/2020 6:00	14.4	3	6	WSW (250)	100	0	
7/14/2020 7:00	17	2	5	NE (40)	100	0	
7/14/2020 8:00	19.1	2	6	WSW (242)	100	0	0
7/14/2020 9:00	20.5	3	7	WNW (302)	88	0	
7/14/2020 10:00	22.2	6	13	NNE (13)	70	0	
7/14/2020 11:00	23.4	7	15	ENE (74)	62	0	
7/14/2020 12:00	24.5	7	14	NNE (18)	61	0	
7/14/2020 13:00	25	8	19	NW (325)	57	0	
7/14/2020 14:00	25.6	10	24	NW (310)	56	0	
7/14/2020 15:00	26.1	9	18	NNE (14)	50	0	
7/14/2020 16:00	26.4	7	16	N (0)	47	0	
7/14/2020 17:00	26.6	6	15	NNE (14)	46	0	
7/14/2020 18:00	25.9	9	16	N (8)	49	0	
7/14/2020 19:00	24.5	10	16	ENE (57)	53	0	
7/14/2020 20:00	23	8	11	ESE (117)	59	0	
7/14/2020 21:00	22.6	8	14	SE (134)	69	0	
7/14/2020 22:00	22.1	11	17	SE (135)	78	0	
7/14/2020 23:00	20.7	12	17	SE (146)	82	0	
7/15/2020 0:00	20.1	13	19	SSE (148)	86	0	
7/15/2020 1:00	19.5	11	17	SSE (151)	100	0	
7/15/2020 2:00	20.1	11	16	SSE (162)	94	0	
7/15/2020 3:00	20	11	16	SSE (151)	98	0	
7/15/2020 4:00	19.5	11	16	SSE (153)	100	0	
7/15/2020 5:00	19.2	11	16	SE (135)	100	0	
7/15/2020 6:00	19	14	18	SE (128)	100	0	
7/15/2020 7:00	20.2	14	19	SE (130)	100	0	
7/15/2020 8:00	22.5	16	23	SSE (152)	98	0	0
7/15/2020 9:00	24.3	17	23	SSE (148)	71	0	
7/15/2020 10:00	25.7	16	26	S (177)	66	0	
7/15/2020 11:00	26.8	15	27	S (176)	63	0	
7/15/2020 12:00	27.5	13	24	SSE (166)	57	0	
7/15/2020 13:00	28.4	13	27	S (185)	54	0	
7/15/2020 14:00	28.8	12	27	SW (235)	49	0	
7/15/2020 15:00	29.1	14	24	S (176)	46	0	
7/15/2020 16:00	29.2	17	27	S (189)	47	0	
7/15/2020 17:00	28.6	21	33	SE (136)	51	0	
7/15/2020 18:00	28	20	28	SSE (155)	48	0	
7/15/2020 19:00	27.1	20	29	SE (146)	52	0	
7/15/2020 20:00	25	15	24	SE (134)	59	0	
7/15/2020 21:00	23.2	13	18	ESE (122)	64	0	
7/15/2020 22:00	22.6	12	16	SE (128)	64	0	
7/15/2020 23:00	22.2	14	21	SE (130)	65	0	
7/16/2020 0:00	21.9	16	22	SE (131)	70	0	
7/16/2020 1:00	21.3	17	23	SE (140)	71	0	
7/16/2020 2:00	21.1	16	22	SE (126)	72	0	
7/16/2020 3:00	21.4	17	22	ESE (123)	74	0	
7/16/2020 4:00	21.4	16	22	SE (127)	80	0	
7/16/2020 5:00	21.4	15	20	SE (127)	81	0	
7/16/2020 6:00	21.7	14	17	ESE (121)	82	0	
7/16/2020 7:00	21.8	10	18	NW (321)	100	0	
7/16/2020 8:00	21.5	4	12	E (88)	100	1.4	1.4
7/16/2020 9:00	21.8	9	17	E (99)	100	0	
7/16/2020 10:00	21.6	11	17	ESE (120)	100	0.4	
7/16/2020 11:00	22.5	14	23	SE (125)	100	0.2	
7/16/2020 12:00	24.1	16	23	SE (144)	100	0	
7/16/2020 13:00	23.7	15	23	ESE (120)	100	0.6	
7/16/2020 14:00	22.8	10	16	ESE (108)	100	1	
7/16/2020 15:00	24	8	14	SSE (165)	100	0	
7/16/2020 16:00	24.5	8	19	WNW (303)	100	0	
7/16/2020 17:00	23.2	14	22	NW (317)	100	0	
7/16/2020 18:00	21.6	15	23	NW (314)	100	0	
7/16/2020 19:00	21.2	16	25	NW (322)	100	0	
7/16/2020 20:00	20.3	19	29	WNW (300)	100	0	
7/16/2020 21:00	20	11	21	WNW (295)	100	0	
7/16/2020 22:00	19.8	6	13	W (275)	100	0	
7/16/2020 23:00	18.9	7	12	WNW (303)	100	0	
7/17/2020 0:00	18.4	8	14	WSW (255)	100	0	
7/17/2020 1:00	18	5	10	WNW (292)	100	0	
7/17/2020 2:00	17.9	5	8	SW (236)	100	0.2	
7/17/2020 3:00	17.3	3	6	SW (220)	100	0	
7/17/2020 4:00	17.2	5	10	SSW (211)	100	0	
7/17/2020 5:00	17.4	5	9	SSW (202)	100	0	
7/17/2020 6:00	17.5	3	9	S (180)	100	0	
7/17/2020 7:00	18.8	5	9	SW (226)	100	0	
7/17/2020 8:00	20.3	6	9	WNW (302)	100	0	2.4
7/17/2020 9:00	21.8	5	10	W (279)	100	0	
7/17/2020 10:00	23.8	5	11	WNW (286)	100	0	
7/17/2020 11:00	25.5	7	19	SSW (201)	96	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/17/2020 12:00	26.7	11	19	SSW (195)	68	0	
7/17/2020 13:00	27.6	12	22	SSW (198)	64	0	
7/17/2020 14:00	28.4	14	27	SW (228)	57	0	
7/17/2020 15:00	28.8	15	25	SW (222)	53	0	
7/17/2020 16:00	28.8	14	27	SW (230)	49	0	
7/17/2020 17:00	29.2	13	23	SSW (206)	42	0	
7/17/2020 18:00	28.9	13	20	SW (225)	47	0	
7/17/2020 19:00	28.4	10	19	SSW (211)	52	0	
7/17/2020 20:00	26.7	7	11	S (182)	61	0	
7/17/2020 21:00	24.8	7	11	SSW (201)	68	0	
7/17/2020 22:00	23.8	8	12	SSE (158)	73	0	
7/17/2020 23:00	22.5	8	12	SW (228)	77	0	
7/18/2020 0:00	21.5	6	12	SSW (212)	81	0	
7/18/2020 1:00	21.2	7	12	SSW (195)	86	0	
7/18/2020 2:00	20.8	7	12	S (177)	90	0	
7/18/2020 3:00	20.6	7	11	SSW (198)	100	0	
7/18/2020 4:00	20.2	7	11	SSW (199)	100	0	
7/18/2020 5:00	20.1	6	10	SSW (204)	100	0	
7/18/2020 6:00	20	5	8	SW (230)	100	0	
7/18/2020 7:00	21.1	6	10	SSW (210)	100	0	
7/18/2020 8:00	23.5	8	13	S (187)	92	0	0
7/18/2020 9:00	25.4	10	15	SW (214)	78	0	
7/18/2020 10:00	27	12	22	SW (228)	69	0	
7/18/2020 11:00	28.1	18	31	SW (226)	62	0	
7/18/2020 12:00	29.1	19	32	SW (225)	59	0	
7/18/2020 13:00	29.6	21	32	SSW (211)	56	0	
7/18/2020 14:00	30	21	32	SW (214)	54	0	
7/18/2020 15:00	30.4	19	30	WSW (241)	54	0	
7/18/2020 16:00	30.5	17	30	SSW (209)	57	0	
7/18/2020 17:00	30.1	19	34	S (170)	57	0	
7/18/2020 18:00	30.1	18	33	SSW (192)	57	0	
7/18/2020 19:00	29.8	14	23	SSE (152)	56	0	
7/18/2020 20:00	28.4	11	18	S (172)	65	0	
7/18/2020 21:00	27	14	21	SSE (161)	66	0	
7/18/2020 22:00	26.2	13	19	SSE (164)	65	0	
7/18/2020 23:00	25.2	12	17	SSE (161)	72	0	
7/19/2020 0:00	24.7	12	17	SSE (165)	76	0	
7/19/2020 1:00	25	11	17	S (170)	77	0	
7/19/2020 2:00	25.1	10	22	SSW (198)	78	0	
7/19/2020 3:00	24.9	13	20	SW (218)	81	0	
7/19/2020 4:00	24.5	11	17	SSW (197)	84	0	
7/19/2020 5:00	24.5	11	18	S (173)	88	0	
7/19/2020 6:00	24.2	14	25	S (179)	92	0	
7/19/2020 7:00	25	15	24	S (184)	89	0	
7/19/2020 8:00	26	16	26	SSW (212)	84	0	0
7/19/2020 9:00	27.4	23	36	S (187)	79	0	
7/19/2020 10:00	26.8	21	63	NW (313)	88	1.4	
7/19/2020 11:00	20.8	24	70	N (0)	100	3.2	
7/19/2020 12:00	20.8	9	17	SE (128)	100	0.6	
7/19/2020 13:00	21.2	16	30	SSE (160)	100	0.8	
7/19/2020 14:00	22.8	14	21	S (185)	100	0	
7/19/2020 15:00	23.1	15	26	SSW (199)	100	0.6	
7/19/2020 16:00	22.2	15	27	SSW (203)	100	0.6	
7/19/2020 17:00	22.7	16	28	SSW (212)	100	0	
7/19/2020 18:00	23.5	12	22	SSW (211)	100	0	
7/19/2020 19:00	24	13	24	SW (228)	100	0	
7/19/2020 20:00	24.4	18	28	WSW (246)	100	0	
7/19/2020 21:00	24	16	28	WSW (246)	100	0	
7/19/2020 22:00	22.8	10	20	W (267)	100	0	
7/19/2020 23:00	22.1	12	17	SW (217)	100	0	
7/20/2020 0:00	21.4	12	19	W (262)	100	0	
7/20/2020 1:00	20.9	11	17	SW (233)	100	0	
7/20/2020 2:00	20.6	12	18	WSW (239)	100	0	
7/20/2020 3:00	20.4	13	20	WSW (242)	100	0	
7/20/2020 4:00	20.1	12	17	WSW (240)	100	0	
7/20/2020 5:00	19.5	9	12	W (268)	100	0	
7/20/2020 6:00	19.3	9	14	WSW (237)	100	0.2	
7/20/2020 7:00	20.2	10	17	WSW (239)	100	0	
7/20/2020 8:00	21.8	12	20	W (278)	100	0	0.2
7/20/2020 9:00	23.1	13	22	WNW (293)	79	0	
7/20/2020 10:00	23.8	11	20	WNW (298)	71	0	
7/20/2020 11:00	24.5	9	25	W (271)	70	0	
7/20/2020 12:00	25.4	12	22	WNW (298)	65	0	
7/20/2020 13:00	26.4	13	27	W (280)	59	0	
7/20/2020 14:00	26.7	14	24	WNW (285)	58	0	
7/20/2020 15:00	26.8	14	26	WNW (297)	58	0	
7/20/2020 16:00	26.9	15	26	N (352)	65	0	
7/20/2020 17:00	25	13	22	N (4)	70	0	
7/20/2020 18:00	24.2	13	20	N (2)	70	0	
7/20/2020 19:00	22.9	13	21	NNE (24)	74	0	
7/20/2020 20:00	21.2	11	18	NNE (17)	78	0	
7/20/2020 21:00	19.8	9	13	N (5)	82	0	
7/20/2020 22:00	18.7	5	9	NNE (33)	90	0	
7/20/2020 23:00	18.3	6	10	NNE (33)	92	0	
7/21/2020 0:00	18.3	8	16	N (0)	92	0	
7/21/2020 1:00	17.6	9	15	NNE (26)	88	0	
7/21/2020 2:00	17.1	7	11	NE (34)	94	0	
7/21/2020 3:00	16.5	5	8	N (8)	100	0	
7/21/2020 4:00	16.1	5	7	NNE (20)	100	0	
7/21/2020 5:00	16.4	9	13	ENE (62)	100	0	
7/21/2020 6:00	16.8	9	13	E (79)	95	0	
7/21/2020 7:00	17	8	13	ENE (59)	83	0	
7/21/2020 8:00	17.8	8	12	NE (55)	82	0	0
7/21/2020 9:00	18.8	7	10	ENE (66)	76	0	
7/21/2020 10:00	19.4	5	10	ENE (62)	77	0	
7/21/2020 11:00	21.5	6	16	NNE (27)	71	0	
7/21/2020 12:00	23	9	15	WNW (285)	63	0	
7/21/2020 13:00	24.4	6	20	SSE (155)	59	0	
7/21/2020 14:00	25.3	6	15	SSW (201)	60	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/21/2020 15:00	25.7	7	15	SSE (168)	60	0	
7/21/2020 16:00	25.8	6	13	W (276)	61	0	
7/21/2020 17:00	24.9	12	22	NNE (31)	69	0	
7/21/2020 18:00	23.4	11	18	N (2)	72	0	
7/21/2020 19:00	22.9	8	15	N (5)	73	0	
7/21/2020 20:00	22	6	10	ENE (62)	81	0	
7/21/2020 21:00	20.7	7	17	ESE (117)	86	0	
7/21/2020 22:00	21	8	16	SSE (159)	85	0	
7/21/2020 23:00	20.6	2	5	SE (128)	93	0	
7/22/2020 0:00	20	4	7	ESE (112)	100	0	
7/22/2020 1:00	19.9	4	8	SE (134)	100	0	
7/22/2020 2:00	20.1	6	9	ESE (121)	100	0	
7/22/2020 3:00	20.3	5	13	SSE (150)	100	0	
7/22/2020 4:00	20.2	14	22	SE (140)	100	0	
7/22/2020 5:00	20.5	15	21	SE (144)	100	0	
7/22/2020 6:00	20.8	12	21	SSE (149)	100	0	
7/22/2020 7:00	21	13	19	SE (129)	100	0	
7/22/2020 8:00	21.9	14	22	S (182)	100	0	0
7/22/2020 9:00	22.7	12	22	S (176)	100	0	
7/22/2020 10:00	23.5	16	27	SW (229)	100	0	
7/22/2020 11:00	24.8	18	30	SW (224)	100	0	
7/22/2020 12:00	25.3	17	28	SW (230)	94	0	
7/22/2020 13:00	25.9	18	29	SW (218)	87	0	
7/22/2020 14:00	26.6	18	31	SW (220)	71	0	
7/22/2020 15:00	26.2	19	30	SW (226)	72	0	
7/22/2020 16:00	24.2	16	30	WNW (300)	90	0	
7/22/2020 17:00	23.8	12	20	NW (320)	84	0	
7/22/2020 18:00	24.2	3	9	W (259)	86	0	
7/22/2020 19:00	25.5	4	8	SW (220)	76	0	
7/22/2020 20:00	24.8	5	9	SE (138)	78	0	
7/22/2020 21:00	23.8	9	15	NNW (341)	94	0	
7/22/2020 22:00	22.9	6	23	NW (318)	92	0.2	
7/22/2020 23:00	21.7	7	17	SSE (159)	100	0	
7/23/2020 0:00	21.4	5	16	NNW (331)	100	0	
7/23/2020 1:00	20.8	4	9	NNW (334)	100	0	
7/23/2020 2:00	20.6	2	6	W (277)	100	0	
7/23/2020 3:00	19.6	4	13	NNW (334)	100	0	
7/23/2020 4:00	19.4	4	13	NW (320)	100	0	
7/23/2020 5:00	20.1	7	14	NW (317)	100	0	
7/23/2020 6:00	20.5	7	11	NW (304)	100	0	
7/23/2020 7:00	20.8	9	14	NW (319)	100	0	
7/23/2020 8:00	21.1	9	16	NW (307)	100	0	0.2
7/23/2020 9:00	21	11	17	W (269)	100	0	
7/23/2020 10:00	22.1	13	21	NW (316)	100	0	
7/23/2020 11:00	23.1	12	20	NNW (328)	100	0	
7/23/2020 12:00	24.1	14	24	NW (319)	87	0	
7/23/2020 13:00	24.1	18	26	NNW (341)	70	0	
7/23/2020 14:00	23.8	19	30	NW (319)	72	0	
7/23/2020 15:00	23.6	19	27	NW (313)	72	0	
7/23/2020 16:00	23.4	19	31	N (354)	67	0	
7/23/2020 17:00	22.9	21	33	NNE (21)	66	0	
7/23/2020 18:00	22.2	19	30	NNW (339)	67	0	
7/23/2020 19:00	21.3	15	25	NNW (333)	72	0	
7/23/2020 20:00	19.8	11	22	NW (325)	84	0	
7/23/2020 21:00	18.2	8	16	NW (307)	100	0	
7/23/2020 22:00	17.2	5	10	NW (325)	100	0	
7/23/2020 23:00	16.9	5	9	N (349)	100	0	
7/24/2020 0:00	16.9	6	10	N (2)	100	0	
7/24/2020 1:00	16.6	6	10	NNE (27)	100	0	
7/24/2020 2:00	16.4	5	9	N (3)	100	0	
7/24/2020 3:00	15.8	5	9	NNE (27)	100	0	
7/24/2020 4:00	15.3	4	7	NNW (347)	100	0	
7/24/2020 5:00	15.2	5	8	NW (318)	100	0	
7/24/2020 6:00	15.5	6	8	NE (41)	100	0	
7/24/2020 7:00	17	6	11	NE (50)	100	0	
7/24/2020 8:00	19.3	9	14	E (91)	100	0	0
7/24/2020 9:00	21.8	7	12	ENE (70)	77	0	
7/24/2020 10:00	24	5	13	NE (48)	65	0	
7/24/2020 11:00	24	8	15	N (5)	64	0	
7/24/2020 12:00	25.1	9	17	NNW (342)	63	0	
7/24/2020 13:00	25.6	8	18	NW (323)	63	0	
7/24/2020 14:00	25.5	13	25	NW (316)	66	0	
7/24/2020 15:00	25.7	12	22	NNW (335)	62	0	
7/24/2020 16:00	25.3	16	24	NW (314)	63	0	
7/24/2020 17:00	25	15	22	N (354)	63	0	
7/24/2020 18:00	24.8	13	20	N (7)	62	0	
7/24/2020 19:00	24.2	10	17	NNW (331)	64	0	
7/24/2020 20:00	22.6	6	13	NW (308)	77	0	
7/24/2020 21:00	20.5	6	8	NW (311)	84	0	
7/24/2020 22:00	19.4	4	7	WNW (282)	91	0	
7/24/2020 23:00	18.6	3	6	SSW (197)	100	0	
7/25/2020 0:00	18.2	2	6	WNW (293)	100	0	
7/25/2020 1:00	17	3	5	NNW (332)	100	0	
7/25/2020 2:00	17.2	1	4	SW (219)	100	0	
7/25/2020 3:00	16.3	1	4	ESE (123)	100	0	
7/25/2020 4:00	16	2	5	NW (309)	100	0	
7/25/2020 5:00	15.7	0	2	E (85)	100	0	
7/25/2020 6:00	16	0	2	SSE (149)	100	0	
7/25/2020 7:00	19	1	5	W (266)	100	0	
7/25/2020 8:00	19.9	4	8	WNW (288)	100	0	0
7/25/2020 9:00	22.5	6	9	WNW (296)	100	0	
7/25/2020 10:00	24.4	8	18	NNW (334)	66	0	
7/25/2020 11:00	25.4	9	18	SSW (200)	62	0	
7/25/2020 12:00	26.4	7	16	W (279)	59	0	
7/25/2020 13:00	27.4	10	25	WSW (254)	56	0	
7/25/2020 14:00	28.1	9	18	SSW (205)	52	0	
7/25/2020 15:00	28.5	12	21	S (183)	49	0	
7/25/2020 16:00	28.6	12	23	S (188)	45	0	
7/25/2020 17:00	28.7	11	23	WSW (247)	41	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/25/2020 18:00	28.3	9	16	SSW (212)	40	0	
7/25/2020 19:00	27.7	6	10	S (182)	37	0	
7/25/2020 20:00	26.3	7	11	S (169)	48	0	
7/25/2020 21:00	24.1	10	16	SSE (167)	69	0	
7/25/2020 22:00	22.7	10	14	SSE (166)	74	0	
7/25/2020 23:00	21.6	10	13	S (180)	78	0	
7/26/2020 0:00	21.3	10	15	S (178)	78	0	
7/26/2020 1:00	21.2	9	15	SSW (209)	80	0	
7/26/2020 2:00	20.8	9	15	SW (218)	82	0	
7/26/2020 3:00	20.5	9	14	SSW (206)	84	0	
7/26/2020 4:00	20.2	10	17	S (181)	84	0	
7/26/2020 5:00	20.4	9	15	SW (230)	92	0	
7/26/2020 6:00	20	8	15	WSW (242)	100	0	
7/26/2020 7:00	20.9	9	16	SW (232)	100	0	
7/26/2020 8:00	23.1	13	20	SW (228)	100	0	0
7/26/2020 9:00	25.6	14	21	WSW (244)	76	0	
7/26/2020 10:00	27.6	17	33	W (262)	66	0	
7/26/2020 11:00	28.6	19	31	WSW (246)	58	0	
7/26/2020 12:00	29.7	16	29	W (273)	53	0	
7/26/2020 13:00	30.6	15	26	SW (214)	51	0	
7/26/2020 14:00	30.9	14	27	WSW (248)	52	0	
7/26/2020 15:00	31.2	15	26	WSW (237)	52	0	
7/26/2020 16:00	31.7	15	27	SSE (156)	51	0	
7/26/2020 17:00	31.6	15	26	SW (222)	52	0	
7/26/2020 18:00	30.9	16	28	SW (214)	56	0	
7/26/2020 19:00	30	16	31	S (191)	61	0	
7/26/2020 20:00	28.2	13	21	SSW (204)	70	0	
7/26/2020 21:00	26.6	13	22	WSW (244)	72	0	
7/26/2020 22:00	25.8	13	23	S (179)	75	0	
7/26/2020 23:00	24.8	11	19	S (189)	79	0	
7/27/2020 0:00	24.4	11	18	S (186)	80	0	
7/27/2020 1:00	24.4	14	20	S (187)	83	0	
7/27/2020 2:00	24.3	11	21	SSW (196)	84	0	
7/27/2020 3:00	24.6	12	19	SSW (198)	84	0	
7/27/2020 4:00	24.9	14	23	WSW (251)	84	0	
7/27/2020 5:00	24.6	13	23	SSW (209)	90	0	
7/27/2020 6:00	24.2	12	21	SW (229)	100	0	
7/27/2020 7:00	24.6	9	15	WNW (290)	100	0	
7/27/2020 8:00	25.9	14	27	WSW (257)	98	0	0
7/27/2020 9:00	26	15	25	WNW (301)	80	0	
7/27/2020 10:00	26.5	15	27	WNW (303)	81	0	
7/27/2020 11:00	26.8	16	27	W (273)	76	0	
7/27/2020 12:00	27.5	14	21	W (270)	73	0	
7/27/2020 13:00	28.2	15	29	WSW (256)	71	0	
7/27/2020 14:00	28.4	13	22	WNW (303)	72	0	
7/27/2020 15:00	29.2	15	28	W (275)	68	0	
7/27/2020 16:00	29.5	17	25	WNW (300)	64	0	
7/27/2020 17:00	29	11	21	W (269)	63	0	
7/27/2020 18:00	27.8	9	24	SSE (164)	78	0	
7/27/2020 19:00	25.6	10	38	WNW (288)	86	1	
7/27/2020 20:00	22	12	23	WNW (286)	100	1.4	
7/27/2020 21:00	21.5	4	9	W (260)	100	0	
7/27/2020 22:00	21.3	6	13	WNW (291)	100	0	
7/27/2020 23:00	21.2	7	12	NNW (333)	100	0	
7/28/2020 0:00	20.8	5	8	WSW (252)	100	0	
7/28/2020 1:00	19.7	6	9	W (262)	100	0	
7/28/2020 2:00	18.6	5	9	W (265)	100	0	
7/28/2020 3:00	18	5	9	W (275)	100	0	
7/28/2020 4:00	17.6	6	9	WSW (238)	100	0.2	
7/28/2020 5:00	17.3	6	9	SW (224)	100	0	
7/28/2020 6:00	16.7	8	10	SSW (206)	100	0	
7/28/2020 7:00	17.7	7	11	WSW (247)	100	0	
7/28/2020 8:00	19.4	8	12	WSW (241)	100	0	2.6
7/28/2020 9:00	21.4	9	16	SSW (192)	99	0	
7/28/2020 10:00	23.3	9	16	SSW (209)	84	0	
7/28/2020 11:00	25.1	9	24	WSW (256)	67	0	
7/28/2020 12:00	26.4	11	20	SW (218)	60	0	
7/28/2020 13:00	26.2	13	24	WNW (298)	57	0	
7/28/2020 14:00	26.5	17	29	NW (308)	56	0	
7/28/2020 15:00	27.2	15	25	WNW (298)	52	0	
7/28/2020 16:00	27.9	12	23	W (264)	49	0	
7/28/2020 17:00	28.1	15	28	WNW (294)	47	0	
7/28/2020 18:00	27.7	12	25	W (266)	45	0	
7/28/2020 19:00	26.8	8	16	WNW (288)	52	0	
7/28/2020 20:00	25.6	6	9	WSW (255)	57	0	
7/28/2020 21:00	23.7	5	8	SSW (201)	61	0	
7/28/2020 22:00	22.5	7	11	SW (229)	64	0	
7/28/2020 23:00	21.2	10	13	WSW (239)	66	0	
7/29/2020 0:00	20.2	9	13	SW (226)	68	0	
7/29/2020 1:00	20.1	8	17	WNW (303)	75	0	
7/29/2020 2:00	19.8	9	20	W (275)	84	0	
7/29/2020 3:00	19.4	7	16	SW (235)	100	0.8	
7/29/2020 4:00	18.6	5	9	SSW (213)	100	0.6	
7/29/2020 5:00	18.2	7	14	SW (233)	100	2.6	
7/29/2020 6:00	18.3	8	14	WSW (247)	100	1.2	
7/29/2020 7:00	18.6	9	17	WSW (256)	100	0	
7/29/2020 8:00	20.2	11	18	WSW (247)	100	0	5.2
7/29/2020 9:00	21.8	13	23	W (278)	96	0	
7/29/2020 10:00	23.2	12	21	W (268)	89	0	
7/29/2020 11:00	24.4	15	28	SW (218)	72	0	
7/29/2020 12:00	25.4	13	23	W (259)	68	0	
7/29/2020 13:00	26.2	12	22	NW (308)	66	0	
7/29/2020 14:00	26.4	17	28	WNW (298)	64	0	
7/29/2020 15:00	26.7	14	23	NNW (342)	59	0	
7/29/2020 16:00	27.1	10	19	W (274)	55	0	
7/29/2020 17:00	27.5	9	16	NW (312)	54	0	
7/29/2020 18:00	27.3	9	15	N (0)	54	0	
7/29/2020 19:00	24.8	17	35	N (5)	70	0	
7/29/2020 20:00	21.8	11	27	NE (49)	76	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
7/29/2020 21:00	20.5	6	8	ESE (119)	77	0	
7/29/2020 22:00	20.5	2	7	W (264)	84	0	
7/29/2020 23:00	19.4	2	5	NNW (328)	90	0	
7/30/2020 0:00	19.1	5	10	NW (319)	99	0	
7/30/2020 1:00	18.2	1	4	NNE (25)	100	0	
7/30/2020 2:00	17.9	1	4	NE (45)	100	0	
7/30/2020 3:00	17.8	1	4	NNE (15)	100	0	
7/30/2020 4:00	17	2	5	N (0)	100	0	
7/30/2020 5:00	16.7	2	3	NNE (32)	100	0	
7/30/2020 6:00	16.6	3	4	E (89)	100	0	
7/30/2020 7:00	18.7	2	4	SSE (165)	100	0	
7/30/2020 8:00	20.8	7	14	NNE (32)	78	0	0
7/30/2020 9:00	21.7	10	20	NNE (26)	73	0	
7/30/2020 10:00	22.7	11	21	N (4)	72	0	
7/30/2020 11:00	23.6	11	19	NNW (343)	67	0	
7/30/2020 12:00	24.3	13	26	NW (315)	64	0	
7/30/2020 13:00	24.1	13	23	NW (313)	61	0	
7/30/2020 14:00	24.5	12	22	N (353)	58	0	
7/30/2020 15:00	24.7	13	23	NNW (337)	54	0	
7/30/2020 16:00	23.8	13	23	NW (310)	57	0	
7/30/2020 17:00	23.5	17	29	NNW (332)	59	0	
7/30/2020 18:00	22.6	12	22	NNW (345)	57	0	
7/30/2020 19:00	21.6	8	15	NNW (342)	68	0	
7/30/2020 20:00	20.1	6	11	NW (323)	79	0	
7/30/2020 21:00	18.7	4	8	NW (318)	97	0	
7/30/2020 22:00	17.5	6	9	NW (317)	100	0	
7/30/2020 23:00	17.2	6	9	N (349)	100	0	
7/31/2020 0:00	17	6	8	N (0)	100	0	
7/31/2020 1:00	16.6	7	13	NNE (29)	100	0	
7/31/2020 2:00	16.9	8	12	N (354)	100	0	
7/31/2020 3:00	16.7	8	13	NNE (12)	100	0	
7/31/2020 4:00	16	7	10	NNE (12)	100	0	
7/31/2020 5:00	15.5	7	11	N (10)	100	0	
7/31/2020 6:00	15.5	6	10	NNE (14)	100	0	
7/31/2020 7:00	17.2	6	11	NNE (23)	100	0	
7/31/2020 8:00	19.5	10	18	NE (43)	100	0	0
7/31/2020 9:00	21.7	12	18	NE (47)	86	0	
7/31/2020 10:00	23.4	11	19	NE (43)	69	0	
7/31/2020 11:00	24.5	11	21	NE (49)	61	0	
7/31/2020 12:00	25.5	9	20	NNE (13)	56	0	
7/31/2020 13:00	24.6	14	24	NW (304)	64	0	
7/31/2020 14:00	25	16	28	NNW (347)	62	0	
7/31/2020 15:00	25.5	17	28	NNW (345)	61	0	
7/31/2020 16:00	25.3	19	29	NNW (338)	60	0	
7/31/2020 17:00	25.1	19	29	N (8)	60	0	
7/31/2020 18:00	24.4	15	25	NNW (338)	61	0	
7/31/2020 19:00	23.8	12	23	NNW (329)	68	0	
7/31/2020 20:00	22.5	10	18	N (0)	76	0	
7/31/2020 21:00	21.1	7	12	NW (315)	88	0	
7/31/2020 22:00	20.3	7	10	N (352)	89	0	
7/31/2020 23:00	19.8	5	9	W (274)	100	0	
8/1/2020 0:00	19.4	4	7	NE (44)	100	0	
8/1/2020 1:00	18.7	8	12	E (98)	92	0	
8/1/2020 2:00	17.8	8	13	E (84)	91	0	
8/1/2020 3:00	17.9	11	15	E (86)	99	0	
8/1/2020 4:00	17.8	11	16	ESE (108)	90	0	
8/1/2020 5:00	17.7	12	15	E (90)	86	0	
8/1/2020 6:00	17.3	11	15	E (87)	88	0	
8/1/2020 7:00	18.8	11	16	ESE (105)	83	0	
8/1/2020 8:00	21.3	13	18	ESE (114)	77	0	0
8/1/2020 9:00	23.9	16	23	ESE (108)	64	0	
8/1/2020 10:00	25.7	17	25	ESE (109)	58	0	
8/1/2020 11:00	27.2	16	26	ESE (102)	49	0	
8/1/2020 12:00	27.9	16	24	ESE (115)	49	0	
8/1/2020 13:00	28	16	23	ESE (122)	48	0	
8/1/2020 14:00	28.7	17	25	ESE (121)	45	0	
8/1/2020 15:00	27.4	20	30	SE (126)	58	0	
8/1/2020 16:00	24.9	20	27	SE (141)	84	0	
8/1/2020 17:00	22.2	19	28	ESE (123)	100	1.4	
8/1/2020 18:00	21.3	16	24	ESE (119)	100	0.8	
8/1/2020 19:00	21.2	12	21	ESE (102)	100	0.2	
8/1/2020 20:00	20.8	8	13	NE (50)	100	0	
8/1/2020 21:00	20.7	6	9	ENE (65)	100	0.4	
8/1/2020 22:00	20.7	8	11	NNE (32)	100	0.6	
8/1/2020 23:00	20.7	10	18	ENE (68)	100	0.4	
8/2/2020 0:00	20.5	14	24	ENE (62)	100	1	
8/2/2020 1:00	20.4	13	19	ENE (74)	100	0	
8/2/2020 2:00	20.4	13	18	ENE (76)	100	0	
8/2/2020 3:00	20.7	13	20	ESE (102)	100	0	
8/2/2020 4:00	20.7	14	20	E (86)	100	2.6	
8/2/2020 5:00	20.6	12	19	E (92)	100	2.8	
8/2/2020 6:00	20.9	8	16	ESE (102)	100	3.8	
8/2/2020 7:00	21.2	7	12	SSE (147)	100	0.8	
8/2/2020 8:00	21.8	7	12	SSE (166)	100	0	14.8
8/2/2020 9:00	23	13	23	S (183)	100	0	
8/2/2020 10:00	23.2	13	22	SW (219)	100	0.2	
8/2/2020 11:00	23.7	17	24	WSW (238)	100	0	
8/2/2020 12:00	24.1	14	24	W (266)	100	0	
8/2/2020 13:00	21.9	15	26	WNW (291)	100	3.6	
8/2/2020 14:00	21	23	47	NW (311)	100	1.4	
8/2/2020 15:00	19.9	36	53	NNW (332)	100	0	
8/2/2020 16:00	20.5	32	48	WNW (297)	100	0	
8/2/2020 17:00	21.3	33	48	NW (305)	100	0	
8/2/2020 18:00	20.9	28	42	WNW (297)	96	0	
8/2/2020 19:00	20.4	19	30	WNW (295)	100	0	
8/2/2020 20:00	19.7	11	22	W (264)	100	0	
8/2/2020 21:00	19.4	10	17	WSW (248)	100	0	
8/2/2020 22:00	19.2	11	20	WSW (239)	100	0	
8/2/2020 23:00	18.5	11	18	SW (230)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/3/2020 0:00	17.8	5	8	SW (224)	100	0	
8/3/2020 1:00	18.1	8	16	S (176)	100	3.4	
8/3/2020 2:00	18.3	8	15	WNW (287)	100	0	
8/3/2020 3:00	17.8	4	7	SW (218)	100	0	
8/3/2020 4:00	17.3	3	6	SW (226)	100	0	
8/3/2020 5:00	16.8	3	5	NE (42)	100	0	
8/3/2020 6:00	16.6	5	8	ESE (119)	100	0	
8/3/2020 7:00	17.5	7	12	SE (127)	100	0	
8/3/2020 8:00	18.5	8	11	SE (124)	100	0	8.6
8/3/2020 9:00	20.8	14	22	SSE (166)	100	0.2	
8/3/2020 10:00	22.1	14	24	SSE (156)	100	0	
8/3/2020 11:00	22.8	18	30	SSE (151)	100	0.8	
8/3/2020 12:00	19.5	20	59	NE (53)	100	25.4	
8/3/2020 13:00	18.7	13	23	N (9)	100	1.8	
8/3/2020 14:00	20.1	7	15	NE (51)	100	5	
8/3/2020 15:00	20.9	7	16	ENE (70)	100	0	
8/3/2020 16:00	21.5	7	14	ESE (102)	100	0	
8/3/2020 17:00	21.4	8	17	ESE (112)	96	0	
8/3/2020 18:00	21.5	10	19	SSE (166)	100	0	
8/3/2020 19:00	21.2	2	9	NW (319)	94	0	
8/3/2020 20:00	20.4	4	11	N (350)	100	0	
8/3/2020 21:00	19.1	7	11	N (6)	100	0	
8/3/2020 22:00	18.6	5	9	NNE (24)	100	0	
8/3/2020 23:00	18.6	4	11	WNW (300)	100	0	
8/4/2020 0:00	18.6	5	11	NNW (327)	100	1.6	
8/4/2020 1:00	18.5	9	16	NW (325)	100	0.4	
8/4/2020 2:00	18.2	8	15	NW (322)	100	0	
8/4/2020 3:00	18	9	16	NW (310)	100	0	
8/4/2020 4:00	17.9	7	14	WNW (298)	100	0	
8/4/2020 5:00	18	8	14	NNW (337)	100	0	
8/4/2020 6:00	18.1	7	12	NNW (337)	100	0.2	
8/4/2020 7:00	18.2	7	13	NNW (328)	100	0.4	
8/4/2020 8:00	18.8	9	17	NNE (16)	100	0	35.8
8/4/2020 9:00	19.8	9	15	N (0)	100	0	
8/4/2020 10:00	20.2	10	17	NNW (338)	100	0	
8/4/2020 11:00	20.7	8	18	NW (313)	100	0	
8/4/2020 12:00	21.9	12	20	WNW (302)	88	0	
8/4/2020 13:00	21.7	16	29	NNW (341)	81	0	
8/4/2020 14:00	20.7	20	34	N (11)	80	0	
8/4/2020 15:00	20.5	20	32	WNW (297)	76	0	
8/4/2020 16:00	19.9	21	34	NNW (331)	80	0	
8/4/2020 17:00	18.6	22	34	WNW (293)	88	0.4	
8/4/2020 18:00	17.4	20	34	NNW (335)	100	2.4	
8/4/2020 19:00	16.9	14	23	NW (318)	100	0.2	
8/4/2020 20:00	16.9	9	15	NNW (332)	100	0	
8/4/2020 21:00	16.8	8	13	NW (310)	100	0	
8/4/2020 22:00	16.6	8	12	NW (321)	100	0	
8/4/2020 23:00	16.2	4	10	WSW (243)	100	0	
8/5/2020 0:00	15.1	7	9	WSW (251)	100	0	
8/5/2020 1:00	14.5	7	10	WSW (246)	100	0	
8/5/2020 2:00	14	6	8	SW (225)	100	0	
8/5/2020 3:00	13.6	8	10	WSW (237)	100	0.2	
8/5/2020 4:00	13.2	6	10	WSW (241)	100	0	
8/5/2020 5:00	12.8	7	11	SW (218)	100	0	
8/5/2020 6:00	12.8	6	9	SW (217)	100	0	
8/5/2020 7:00	13.7	9	15	WSW (242)	100	0	
8/5/2020 8:00	15.8	11	21	WNW (297)	100	0	3.2
8/5/2020 9:00	17.3	18	27	WNW (301)	100	0	
8/5/2020 10:00	17.9	21	32	WNW (301)	68	0	
8/5/2020 11:00	18.4	20	32	WNW (296)	63	0	
8/5/2020 12:00	18.8	18	34	NNW (338)	61	0	
8/5/2020 13:00	19.4	15	24	NW (307)	61	0	
8/5/2020 14:00	20.2	16	27	WNW (285)	59	0	
8/5/2020 15:00	21	13	27	WNW (284)	58	0	
8/5/2020 16:00	21.4	9	18	WSW (258)	55	0	
8/5/2020 17:00	21.8	7	15	S (190)	54	0	
8/5/2020 18:00	21.6	4	11	W (276)	55	0	
8/5/2020 19:00	21.4	5	9	SSW (209)	61	0	
8/5/2020 20:00	19.9	3	7	SSW (208)	67	0	
8/5/2020 21:00	19.1	4	7	SW (217)	68	0	
8/5/2020 22:00	18	4	8	NE (46)	77	0	
8/5/2020 23:00	16.9	2	3	SSE (163)	82	0	
8/6/2020 0:00	16.2	4	8	SSW (200)	84	0	
8/6/2020 1:00	15.3	3	5	ESE (114)	92	0	
8/6/2020 2:00	14.5	3	6	ESE (122)	100	0	
8/6/2020 3:00	14.1	2	4	E (88)	100	0	
8/6/2020 4:00	13.8	2	4	SE (137)	100	0	
8/6/2020 5:00	13.2	2	4	E (89)	100	0	
8/6/2020 6:00	12.9	1	3	ESE (110)	100	0	
8/6/2020 7:00	15	3	5	NE (50)	100	0	
8/6/2020 8:00	17.5	3	6	NNE (27)	83	0	0
8/6/2020 9:00	19.9	7	14	NE (37)	75	0	
8/6/2020 10:00	21	10	18	NE (55)	61	0	
8/6/2020 11:00	21.7	11	19	E (87)	52	0	
8/6/2020 12:00	22.1	6	17	WSW (244)	53	0	
8/6/2020 13:00	22.9	9	17	NNW (332)	48	0	
8/6/2020 14:00	23.5	9	14	N (0)	46	0	
8/6/2020 15:00	23.9	7	18	ENE (67)	46	0	
8/6/2020 16:00	23.8	7	14	N (4)	46	0	
8/6/2020 17:00	23.7	10	23	N (5)	57	0	
8/6/2020 18:00	22.8	13	20	N (8)	58	0	
8/6/2020 19:00	22.1	10	18	N (0)	61	0	
8/6/2020 20:00	20.3	7	12	NNE (13)	73	0	
8/6/2020 21:00	18.4	4	9	ENE (62)	77	0	
8/6/2020 22:00	17.8	6	7	NE (48)	78	0	
8/6/2020 23:00	17.1	4	6	NE (49)	79	0	
8/7/2020 0:00	16.6	6	9	ENE (58)	80	0	
8/7/2020 1:00	16.2	6	8	NE (40)	83	0	
8/7/2020 2:00	15.8	5	8	NE (54)	79	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/7/2020 3:00	15.2	5	7	NNE (14)	82	0	
8/7/2020 4:00	14.6	4	6	ENE (59)	86	0	
8/7/2020 5:00	13.9	4	7	NNE (28)	96	0	
8/7/2020 6:00	13.4	6	11	NNE (31)	100	0	
8/7/2020 7:00	15.2	4	7	NE (44)	100	0	
8/7/2020 8:00	17.9	4	7	NNE (33)	84	0	0
8/7/2020 9:00	20.6	7	13	NW (326)	76	0	
8/7/2020 10:00	22.3	11	17	NNE (15)	60	0	
8/7/2020 11:00	23.4	13	24	N (3)	57	0	
8/7/2020 12:00	24.1	13	22	NNE (28)	52	0	
8/7/2020 13:00	24.1	9	17	NNW (344)	54	0	
8/7/2020 14:00	24.3	8	17	NW (314)	53	0	
8/7/2020 15:00	24.6	10	19	NNW (338)	53	0	
8/7/2020 16:00	24.6	12	19	NNW (332)	53	0	
8/7/2020 17:00	24.5	13	24	NW (324)	52	0	
8/7/2020 18:00	24.2	10	18	N (352)	49	0	
8/7/2020 19:00	23.5	7	13	N (4)	52	0	
8/7/2020 20:00	21.6	6	10	N (1)	62	0	
8/7/2020 21:00	19.1	3	7	NNE (31)	70	0	
8/7/2020 22:00	18.1	4	6	ENE (74)	75	0	
8/7/2020 23:00	17.3	2	6	SE (133)	82	0	
8/8/2020 0:00	16.2	1	3	WSW (246)	89	0	
8/8/2020 1:00	15.6	0	2	SSE (159)	90	0	
8/8/2020 2:00	15.1	2	6	WSW (248)	96	0	
8/8/2020 3:00	14.4	3	8	W (275)	100	0	
8/8/2020 4:00	14.6	1	4	WSW (250)	100	0	
8/8/2020 5:00	14.5	2	5	SW (235)	100	0	
8/8/2020 6:00	14.3	0	2	SE (128)	96	0	
8/8/2020 7:00	16.4	1	5	WSW (251)	86	0	
8/8/2020 8:00	19	2	5	SW (220)	76	0	0
8/8/2020 9:00	21.9	4	9	WSW (255)	70	0	
8/8/2020 10:00	23.3	6	11	WNW (297)	62	0	
8/8/2020 11:00	24.5	6	14	N (350)	57	0	
8/8/2020 12:00	25.2	7	13	WNW (285)	53	0	
8/8/2020 13:00	25.6	6	15	WSW (258)	52	0	
8/8/2020 14:00	26.2	6	13	NNE (28)	52	0	
8/8/2020 15:00	26.7	8	22	SW (229)	48	0	
8/8/2020 16:00	27.2	10	20	SW (224)	44	0	
8/8/2020 17:00	27	12	23	S (185)	48	0	
8/8/2020 18:00	26.6	12	25	SSW (204)	46	0	
8/8/2020 19:00	25.4	10	18	S (181)	58	0	
8/8/2020 20:00	23.3	15	26	S (189)	64	0	
8/8/2020 21:00	21.8	8	15	S (172)	66	0	
8/8/2020 22:00	20.7	11	15	S (171)	70	0	
8/8/2020 23:00	20.2	10	15	S (172)	72	0	
8/9/2020 0:00	19.8	11	15	SSE (166)	76	0	
8/9/2020 1:00	19.7	11	18	SSW (206)	76	0	
8/9/2020 2:00	20	12	19	S (176)	79	0	
8/9/2020 3:00	19.7	10	18	SW (225)	84	0	
8/9/2020 4:00	19.8	11	21	SSW (200)	84	0	
8/9/2020 5:00	20	12	19	S (178)	84	0	
8/9/2020 6:00	20	11	19	S (190)	83	0	
8/9/2020 7:00	20.2	12	19	SSW (200)	83	0	
8/9/2020 8:00	20.5	11	19	SSW (196)	80	0	0
8/9/2020 9:00	21.5	10	18	SSW (199)	81	0	
8/9/2020 10:00	21.7	11	23	E (86)	82	0	
8/9/2020 11:00	21.9	14	25	ESE (111)	80	0	
8/9/2020 12:00	25	15	23	SSW (200)	76	0	
8/9/2020 13:00	26.9	15	25	SSW (212)	70	0	
8/9/2020 14:00	28.3	15	24	SW (236)	68	0	
8/9/2020 15:00	29	15	24	SW (229)	65	0	
8/9/2020 16:00	29.4	15	26	SSW (198)	65	0	
8/9/2020 17:00	29.6	15	26	SSW (209)	65	0	
8/9/2020 18:00	28.8	14	23	SSW (210)	67	0	
8/9/2020 19:00	27.8	10	20	S (188)	70	0	
8/9/2020 20:00	26.5	9	16	SSE (158)	78	0	
8/9/2020 21:00	25	11	17	SSE (157)	81	0	
8/9/2020 22:00	24	12	16	SSE (166)	80	0	
8/9/2020 23:00	23.3	9	13	S (190)	81	0	
8/10/2020 0:00	23.2	10	17	S (187)	82	0	
8/10/2020 1:00	22.5	10	16	SSW (199)	86	0	
8/10/2020 2:00	22.4	10	16	SSE (168)	86	0	
8/10/2020 3:00	22.5	9	15	SW (233)	88	0	
8/10/2020 4:00	22.4	8	15	SSE (162)	90	0	
8/10/2020 5:00	22.3	11	17	S (171)	92	0	
8/10/2020 6:00	21.3	4	15	SSW (202)	100	0	
8/10/2020 7:00	22	6	11	SSW (213)	100	0	
8/10/2020 8:00	23.6	9	19	SSW (202)	100	0	0
8/10/2020 9:00	25.1	11	17	WSW (247)	81	0	
8/10/2020 10:00	26.9	12	20	SSW (208)	73	0	
8/10/2020 11:00	27.3	14	23	SW (222)	70	0	
8/10/2020 12:00	28.8	15	28	SW (222)	67	0	
8/10/2020 13:00	29.2	18	32	SSW (208)	62	0	
8/10/2020 14:00	29	17	30	SW (222)	62	0	
8/10/2020 15:00	30.2	16	32	SSW (213)	58	0	
8/10/2020 16:00	30.2	19	33	S (170)	58	0	
8/10/2020 17:00	29.7	23	38	S (191)	57	0	
8/10/2020 18:00	29.6	17	30	SSE (166)	55	0	
8/10/2020 19:00	28.2	11	27	SSW (201)	61	0	
8/10/2020 20:00	26.7	11	19	SE (136)	69	0	
8/10/2020 21:00	24.9	15	22	SE (126)	78	0	
8/10/2020 22:00	24.2	16	26	SSE (149)	79	0	
8/10/2020 23:00	23.9	18	27	SSE (159)	81	0	
8/11/2020 0:00	24	18	25	SE (146)	81	0	
8/11/2020 1:00	23.9	18	26	SSE (160)	84	0	
8/11/2020 2:00	24.3	15	23	SSW (192)	84	0	
8/11/2020 3:00	24	15	26	SSW (207)	86	0	
8/11/2020 4:00	23.8	16	24	WSW (244)	86	0	
8/11/2020 5:00	23	19	34	WSW (251)	75	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/11/2020 6:00	22	16	28	SW (230)	82	0	
8/11/2020 7:00	21.4	11	20	WSW (243)	84	0	
8/11/2020 8:00	22.6	14	25	WNW (291)	82	0	0
8/11/2020 9:00	22.6	16	30	WNW (293)	81	0	
8/11/2020 10:00	23.4	16	25	WNW (293)	81	0	
8/11/2020 11:00	23.7	17	27	WNW (298)	78	0	
8/11/2020 12:00	23.5	16	24	WNW (292)	78	0	
8/11/2020 13:00	23.7	12	18	WNW (286)	79	0	
8/11/2020 14:00	24.2	15	24	NW (314)	79	0	
8/11/2020 15:00	24.4	14	26	N (353)	75	0	
8/11/2020 16:00	24.5	14	23	NNW (337)	69	0	
8/11/2020 17:00	24.9	12	23	NW (326)	55	0	
8/11/2020 18:00	24.6	13	20	NNE (20)	44	0	
8/11/2020 19:00	23.5	8	16	NNE (29)	49	0	
8/11/2020 20:00	21.8	3	5	NNE (16)	56	0	
8/11/2020 21:00	19.3	1	4	SSE (164)	73	0	
8/11/2020 22:00	17.8	1	2	S (170)	78	0	
8/11/2020 23:00	17.3	2	7	S (178)	81	0	
8/12/2020 0:00	17.1	3	8	SSE (162)	75	0	
8/12/2020 1:00	16.5	3	6	S (182)	82	0	
8/12/2020 2:00	16.7	5	10	S (172)	74	0	
8/12/2020 3:00	16.4	4	8	SSE (155)	72	0	
8/12/2020 4:00	15.6	2	6	WSW (242)	83	0	
8/12/2020 5:00	14.8	2	4	W (265)	84	0	
8/12/2020 6:00	14.4	2	5	SW (214)	85	0	
8/12/2020 7:00	17	1	4	S (185)	81	0	
8/12/2020 8:00	20.4	2	5	WSW (257)	75	0	0
8/12/2020 9:00	22	4	6	WSW (252)	76	0	
8/12/2020 10:00	24.2	4	9	SW (229)	69	0	
8/12/2020 11:00	25.8	5	9	WNW (284)	55	0	
8/12/2020 12:00	26.6	5	14	WNW (291)	44	0	
8/12/2020 13:00	27.3	4	11	SSW (204)	42	0	
8/12/2020 14:00	28.1	6	14	WSW (243)	41	0	
8/12/2020 15:00	28.6	5	15	SE (146)	43	0	
8/12/2020 16:00	29	6	11	WNW (291)	39	0	
8/12/2020 17:00	28.8	5	10	WNW (300)	40	0	
8/12/2020 18:00	28	9	17	NNE (17)	48	0	
8/12/2020 19:00	26.1	9	14	ENE (74)	55	0	
8/12/2020 20:00	23.3	8	10	ESE (111)	66	0	
8/12/2020 21:00	22	7	10	ESE (117)	66	0	
8/12/2020 22:00	21.1	6	11	SE (131)	69	0	
8/12/2020 23:00	19.5	2	5	NNW (342)	78	0	
8/13/2020 0:00	18.8	3	6	N (354)	83	0	
8/13/2020 1:00	17	2	4	ENE (65)	92	0	
8/13/2020 2:00	17.1	2	5	ENE (61)	98	0	
8/13/2020 3:00	16.4	5	7	ENE (60)	100	0	
8/13/2020 4:00	15.9	4	6	NE (47)	100	0	
8/13/2020 5:00	15.5	5	7	E (96)	100	0	
8/13/2020 6:00	15.6	3	6	ENE (74)	95	0	
8/13/2020 7:00	17.1	4	9	ENE (73)	83	0	
8/13/2020 8:00	20.4	8	15	E (86)	83	0	0
8/13/2020 9:00	23.5	12	18	E (82)	73	0	
8/13/2020 10:00	25.7	11	18	E (93)	67	0	
8/13/2020 11:00	27.3	13	19	E (94)	58	0	
8/13/2020 12:00	28	10	21	ENE (66)	50	0	
8/13/2020 13:00	28.6	10	21	ENE (78)	45	0	
8/13/2020 14:00	28.5	9	18	ESE (102)	45	0	
8/13/2020 15:00	28.9	10	18	NE (40)	44	0	
8/13/2020 16:00	28.8	12	20	ENE (67)	45	0	
8/13/2020 17:00	28	12	18	NNW (330)	60	0	
8/13/2020 18:00	27	15	21	N (0)	61	0	
8/13/2020 19:00	25.6	13	18	NNW (348)	66	0	
8/13/2020 20:00	23.4	10	18	N (2)	72	0	
8/13/2020 21:00	21.4	8	12	NNE (26)	79	0	
8/13/2020 22:00	20.1	6	10	NNE (33)	83	0	
8/13/2020 23:00	19.5	8	11	NE (45)	84	0	
8/14/2020 0:00	19.5	10	12	ENE (78)	79	0	
8/14/2020 1:00	19.5	12	16	E (84)	73	0	
8/14/2020 2:00	19.3	12	15	ENE (67)	69	0	
8/14/2020 3:00	18.5	12	16	ENE (63)	74	0	
8/14/2020 4:00	17.7	13	16	ENE (68)	78	0	
8/14/2020 5:00	17.9	13	20	E (93)	79	0	
8/14/2020 6:00	18.2	15	20	ESE (104)	78	0	
8/14/2020 7:00	19.4	16	21	E (91)	77	0	
8/14/2020 8:00	21.9	16	23	E (97)	70	0	0
8/14/2020 9:00	23.9	18	26	ESE (118)	65	0	
8/14/2020 10:00	25.4	19	31	ESE (108)	63	0	
8/14/2020 11:00	26.9	22	31	ESE (107)	59	0	
8/14/2020 12:00	27.9	25	35	ESE (114)	55	0	
8/14/2020 13:00	27.7	22	35	ESE (109)	53	0	
8/14/2020 14:00	27.4	13	20	ESE (122)	54	0	
8/14/2020 15:00	28.5	16	28	E (101)	54	0	
8/14/2020 16:00	28.1	16	26	E (85)	53	0	
8/14/2020 17:00	28.6	18	27	ENE (58)	47	0	
8/14/2020 18:00	27.9	16	25	ENE (75)	45	0	
8/14/2020 19:00	25.8	12	18	ENE (61)	53	0	
8/14/2020 20:00	22.6	11	14	E (87)	59	0	
8/14/2020 21:00	21.3	12	16	ENE (73)	58	0	
8/14/2020 22:00	21	12	17	E (84)	55	0	
8/14/2020 23:00	19.9	11	14	ENE (72)	60	0	
8/15/2020 0:00	19.6	13	17	E (90)	62	0	
8/15/2020 1:00	18.9	13	15	E (89)	66	0	
8/15/2020 2:00	18.1	13	17	E (87)	68	0	
8/15/2020 3:00	18.1	14	18	E (80)	71	0	
8/15/2020 4:00	17.7	13	18	E (97)	76	0	
8/15/2020 5:00	17.3	13	18	ENE (68)	84	0	
8/15/2020 6:00	17.1	14	21	E (86)	85	0	
8/15/2020 7:00	18.9	19	29	ENE (73)	86	0	
8/15/2020 8:00	20.3	17	26	ENE (78)	83	0	0

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/15/2020 9:00	21.8	17	25	E (98)	76	0	
8/15/2020 10:00	23.6	12	19	ENE (74)	72	0	
8/15/2020 11:00	25	10	17	SE (134)	68	0	
8/15/2020 12:00	25.9	8	16	NNE (21)	65	0	
8/15/2020 13:00	26	9	17	SSW (211)	66	0	
8/15/2020 14:00	26.6	8	16	SE (132)	65	0	
8/15/2020 15:00	27.4	11	23	SE (144)	66	0	
8/15/2020 16:00	28	11	24	SE (127)	64	0	
8/15/2020 17:00	27.6	13	23	SE (132)	65	0	
8/15/2020 18:00	27	17	23	SSE (157)	67	0	
8/15/2020 19:00	25.9	17	23	SE (140)	73	0	
8/15/2020 20:00	24.3	14	18	SE (135)	79	0	
8/15/2020 21:00	23.1	11	15	SE (139)	83	0	
8/15/2020 22:00	22.5	12	18	SE (133)	86	0	
8/15/2020 23:00	22.3	16	27	SSE (151)	87	0	
8/16/2020 0:00	22	17	23	SSE (152)	84	0	
8/16/2020 1:00	21.2	17	24	SSE (150)	82	0	
8/16/2020 2:00	20.6	15	19	S (179)	82	0	
8/16/2020 3:00	20.2	14	21	S (170)	83	0	
8/16/2020 4:00	20	15	24	SSE (166)	80	0	
8/16/2020 5:00	19.4	14	19	S (172)	81	0	
8/16/2020 6:00	19.1	14	21	SSW (207)	80	0	
8/16/2020 7:00	19.3	13	20	SW (221)	80	0	
8/16/2020 8:00	19.6	7	16	N (0)	87	0	0
8/16/2020 9:00	17.8	12	19	SSE (161)	100	15	
8/16/2020 10:00	17.4	19	33	ESE (104)	100	5.6	
8/16/2020 11:00	16.8	19	37	SSE (164)	100	0.2	
8/16/2020 12:00	17.5	9	14	SW (223)	100	0	
8/16/2020 13:00	19.1	13	20	SW (229)	100	0	
8/16/2020 14:00	20.6	11	18	SSW (198)	82	0	
8/16/2020 15:00	22.1	8	19	S (178)	80	0.2	
8/16/2020 16:00	20.7	6	21	NNW (344)	100	12.2	
8/16/2020 17:00	21.8	5	12	NW (313)	89	0	
8/16/2020 18:00	22	13	22	NW (316)	85	0	
8/16/2020 19:00	21.1	11	23	NW (325)	79	0	
8/16/2020 20:00	19	7	13	NW (315)	88	0	
8/16/2020 21:00	17.6	4	6	W (263)	100	0	
8/16/2020 22:00	16.6	5	7	WSW (237)	100	0	
8/16/2020 23:00	16.3	3	6	WSW (243)	100	0	
8/17/2020 0:00	15.4	4	6	SSW (198)	100	0	
8/17/2020 1:00	15.2	5	8	SW (222)	100	0	
8/17/2020 2:00	15.5	4	7	SSW (199)	100	0.2	
8/17/2020 3:00	15.2	3	6	SW (236)	100	0	
8/17/2020 4:00	15.4	4	6	S (184)	100	0	
8/17/2020 5:00	16	4	9	SSW (204)	100	0	
8/17/2020 6:00	15.6	8	13	S (173)	100	0	
8/17/2020 7:00	16.3	9	13	S (172)	100	0	
8/17/2020 8:00	18.2	8	16	SSW (209)	100	0	33.4
8/17/2020 9:00	19.7	10	18	WSW (238)	100	0	
8/17/2020 10:00	21.4	8	15	W (271)	94	0	
8/17/2020 11:00	22.2	9	17	WNW (294)	77	0	
8/17/2020 12:00	22.9	10	17	WNW (303)	69	0	
8/17/2020 13:00	23.7	10	16	NW (306)	63	0	
8/17/2020 14:00	23.8	13	21	W (280)	59	0	
8/17/2020 15:00	24.1	14	23	WNW (295)	60	0	
8/17/2020 16:00	24	14	23	NW (310)	61	0	
8/17/2020 17:00	22.8	13	24	N (354)	71	0	
8/17/2020 18:00	22.7	9	16	N (0)	71	0	
8/17/2020 19:00	22.4	8	14	N (3)	69	0	
8/17/2020 20:00	20.8	7	15	NNW (331)	80	0	
8/17/2020 21:00	19.4	2	4	W (279)	100	0	
8/17/2020 22:00	18.6	5	9	N (1)	100	0	
8/17/2020 23:00	17.9	3	5	N (0)	100	0	
8/18/2020 0:00	17.3	3	7	NW (304)	100	0	
8/18/2020 1:00	16.3	3	5	WNW (283)	100	0	
8/18/2020 2:00	16	5	8	WSW (256)	100	0	
8/18/2020 3:00	15.7	6	9	WSW (250)	100	0	
8/18/2020 4:00	15.5	7	11	NNW (338)	100	0.6	
8/18/2020 5:00	15.7	5	8	WSW (242)	100	0	
8/18/2020 6:00	14.9	5	10	WSW (238)	100	0	
8/18/2020 7:00	15.4	4	7	WNW (289)	100	0	
8/18/2020 8:00	17.5	10	23	WNW (298)	100	0	0.6
8/18/2020 9:00	18.7	16	26	WNW (300)	96	0	
8/18/2020 10:00	19.1	17	26	NW (306)	73	0	
8/18/2020 11:00	19.7	18	27	NW (321)	71	0	
8/18/2020 12:00	20	19	30	WNW (294)	72	0	
8/18/2020 13:00	20.5	20	33	WNW (294)	72	0	
8/18/2020 14:00	20.3	21	30	NNW (333)	70	0	
8/18/2020 15:00	20.9	18	31	NNW (333)	68	0	
8/18/2020 16:00	20.4	18	33	N (0)	68	0	
8/18/2020 17:00	20.1	17	28	NNW (346)	65	0	
8/18/2020 18:00	19.8	15	27	NNW (338)	62	0	
8/18/2020 19:00	19	13	24	N (0)	64	0	
8/18/2020 20:00	17.1	8	16	N (4)	77	0	
8/18/2020 21:00	15.8	4	9	NNW (347)	80	0	
8/18/2020 22:00	15.1	5	10	NNW (337)	83	0	
8/18/2020 23:00	14.8	2	7	ENE (74)	83	0	
8/19/2020 0:00	14	1	3	ENE (60)	90	0	
8/19/2020 1:00	13.2	2	5	WSW (238)	100	0	
8/19/2020 2:00	12.3	2	6	SSW (212)	100	0	
8/19/2020 3:00	11.9	4	7	SW (215)	100	0	
8/19/2020 4:00	12	5	7	SW (222)	100	0	
8/19/2020 5:00	11.5	7	9	W (271)	100	0	
8/19/2020 6:00	11.7	5	8	SW (228)	100	0	
8/19/2020 7:00	14	5	10	SW (234)	100	0	
8/19/2020 8:00	16	3	6	WNW (288)	82	0	0
8/19/2020 9:00	18.4	3	14	NNE (26)	80	0	
8/19/2020 10:00	19.5	7	14	ENE (78)	61	0	
8/19/2020 11:00	19.8	6	14	N (7)	61	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/19/2020 12:00	20.4	9	21	N (5)	62	0	
8/19/2020 13:00	20.8	13	22	NW (313)	61	0	
8/19/2020 14:00	21	13	23	N (8)	57	0	
8/19/2020 15:00	21.4	11	22	N (351)	53	0	
8/19/2020 16:00	21.3	10	19	N (6)	51	0	
8/19/2020 17:00	21.2	9	16	N (1)	50	0	
8/19/2020 18:00	20.9	9	15	NNW (344)	49	0	
8/19/2020 19:00	19.8	8	14	NNE (19)	60	0	
8/19/2020 20:00	17.8	4	7	NE (49)	69	0	
8/19/2020 21:00	16.6	3	6	E (98)	73	0	
8/19/2020 22:00	15.5	4	7	ESE (113)	80	0	
8/19/2020 23:00	14.8	4	8	SE (136)	84	0	
8/20/2020 0:00	14.5	5	16	SW (228)	81	0	
8/20/2020 1:00	13.3	6	11	S (169)	84	0	
8/20/2020 2:00	13.5	5	10	SE (127)	84	0	
8/20/2020 3:00	13.4	5	13	SSE (168)	87	0	
8/20/2020 4:00	14.5	7	11	SE (132)	76	0	
8/20/2020 5:00	13.8	6	12	SSE (168)	83	0	
8/20/2020 6:00	14.3	9	12	SSW (202)	81	0	
8/20/2020 7:00	14.9	6	14	SSE (167)	80	0	
8/20/2020 8:00	17	9	14	SSW (208)	76	0	0
8/20/2020 9:00	18.6	11	19	SW (221)	75	0	
8/20/2020 10:00	20.7	16	27	WSW (240)	73	0	
8/20/2020 11:00	22.2	16	26	SSW (211)	66	0	
8/20/2020 12:00	23.2	13	22	WSW (239)	61	0	
8/20/2020 13:00	24	13	23	SW (221)	55	0	
8/20/2020 14:00	24.4	15	27	S (178)	55	0	
8/20/2020 15:00	25	16	28	SSW (192)	52	0	
8/20/2020 16:00	25.1	18	28	S (177)	54	0	
8/20/2020 17:00	24.5	17	29	SW (230)	57	0	
8/20/2020 18:00	23.8	15	24	S (170)	57	0	
8/20/2020 19:00	22.5	12	22	S (180)	59	0	
8/20/2020 20:00	20.7	14	19	S (188)	64	0	
8/20/2020 21:00	19.3	13	17	S (173)	67	0	
8/20/2020 22:00	19	11	16	S (186)	67	0	
8/20/2020 23:00	18.7	10	15	SSW (213)	67	0	
8/21/2020 0:00	18.1	9	14	SSW (200)	68	0	
8/21/2020 1:00	17.4	8	14	SW (223)	75	0	
8/21/2020 2:00	16.2	8	11	SW (217)	81	0	
8/21/2020 3:00	16.3	7	11	SSW (209)	84	0	
8/21/2020 4:00	15.9	7	10	SW (229)	89	0	
8/21/2020 5:00	16	5	8	S (174)	95	0	
8/21/2020 6:00	16.4	5	8	SW (222)	95	0	
8/21/2020 7:00	17	8	13	SW (228)	88	0	
8/21/2020 8:00	18.2	8	15	WSW (254)	84	0	0
8/21/2020 9:00	20.6	11	19	WSW (240)	79	0	
8/21/2020 10:00	23.1	10	19	SSW (212)	70	0	
8/21/2020 11:00	24.8	10	18	WSW (238)	67	0	
8/21/2020 12:00	25.9	9	15	SW (214)	65	0	
8/21/2020 13:00	27	9	24	W (269)	62	0	
8/21/2020 14:00	27.6	11	21	SW (226)	59	0	
8/21/2020 15:00	27.9	11	22	WSW (237)	56	0	
8/21/2020 16:00	28.2	10	17	WSW (254)	55	0	
8/21/2020 17:00	27.6	6	17	WNW (301)	59	0	
8/21/2020 18:00	27.9	3	6	WSW (257)	56	0	
8/21/2020 19:00	26.6	2	5	SW (224)	67	0	
8/21/2020 20:00	24.7	6	18	S (185)	70	0	
8/21/2020 21:00	23	8	12	S (179)	67	0	
8/21/2020 22:00	21.9	6	10	S (184)	72	0	
8/21/2020 23:00	21.3	6	9	S (172)	73	0	
8/22/2020 0:00	20.7	5	9	S (178)	76	0	
8/22/2020 1:00	20.3	8	13	SSW (193)	77	0	
8/22/2020 2:00	20	8	12	SW (224)	83	0	
8/22/2020 3:00	18.5	5	8	SW (232)	91	0	
8/22/2020 4:00	18.4	7	9	SW (232)	90	0	
8/22/2020 5:00	18.1	5	9	SW (230)	99	0	
8/22/2020 6:00	18	5	8	SSW (203)	100	0	
8/22/2020 7:00	18.2	4	8	SSW (196)	91	0	
8/22/2020 8:00	20.1	6	9	WSW (255)	84	0	0
8/22/2020 9:00	22	9	13	WSW (244)	75	0	
8/22/2020 10:00	23.5	8	15	WSW (247)	70	0	
8/22/2020 11:00	25.2	9	17	W (272)	65	0	
8/22/2020 12:00	26.8	9	16	WSW (246)	57	0	
8/22/2020 13:00	27.7	8	17	WSW (251)	56	0	
8/22/2020 14:00	28.3	8	16	WSW (256)	51	0	
8/22/2020 15:00	28.8	9	15	SW (234)	48	0	
8/22/2020 16:00	28.7	8	14	NW (304)	52	0	
8/22/2020 17:00	28.9	7	12	NW (306)	47	0	
8/22/2020 18:00	28.7	4	10	NNW (340)	49	0	
8/22/2020 19:00	27.8	3	6	E (86)	55	0	
8/22/2020 20:00	25.5	4	8	SE (134)	61	0	
8/22/2020 21:00	24.2	8	11	SSE (157)	70	0	
8/22/2020 22:00	23.2	7	10	SSE (150)	74	0	
8/22/2020 23:00	22.4	7	11	S (175)	76	0	
8/23/2020 0:00	21.8	5	10	S (174)	80	0	
8/23/2020 1:00	20.7	4	10	SSE (154)	83	0	
8/23/2020 2:00	21.5	8	12	SSE (158)	76	0	
8/23/2020 3:00	20.8	10	14	S (176)	74	0	
8/23/2020 4:00	19.4	5	12	S (171)	83	0	
8/23/2020 5:00	19.8	10	14	SSE (164)	93	0	
8/23/2020 6:00	19.7	8	12	SSE (164)	100	0	
8/23/2020 7:00	20.2	6	10	SSE (153)	100	0	
8/23/2020 8:00	22.1	7	13	SSW (202)	97	0	0
8/23/2020 9:00	24.2	8	14	SW (220)	79	0	
8/23/2020 10:00	26.4	9	15	SW (223)	75	0	
8/23/2020 11:00	27.9	12	20	W (261)	65	0	
8/23/2020 12:00	28.6	13	22	SW (230)	61	0	
8/23/2020 13:00	28.7	12	22	SW (226)	60	0	
8/23/2020 14:00	29.9	13	21	WSW (239)	51	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/23/2020 15:00	30.3	11	23	SW (218)	49	0	
8/23/2020 16:00	30.4	11	22	SW (229)	49	0	
8/23/2020 17:00	30	14	23	S (170)	53	0	
8/23/2020 18:00	28.8	16	23	S (190)	61	0	
8/23/2020 19:00	27.3	13	20	SSE (167)	71	0	
8/23/2020 20:00	25.6	9	13	SSE (162)	78	0	
8/23/2020 21:00	24.2	9	14	SSE (156)	87	0	
8/23/2020 22:00	23.5	9	14	SSE (148)	84	0	
8/23/2020 23:00	22.8	9	13	S (182)	84	0	
8/24/2020 0:00	22.2	7	11	SSW (210)	83	0	
8/24/2020 1:00	21.6	6	10	SSW (194)	81	0	
8/24/2020 2:00	21.1	6	10	SSW (205)	84	0	
8/24/2020 3:00	20.9	7	11	SW (226)	92	0	
8/24/2020 4:00	20.4	4	10	S (190)	100	0	
8/24/2020 5:00	20.8	6	10	S (185)	100	0	
8/24/2020 6:00	20.4	6	10	SSW (195)	100	0	
8/24/2020 7:00	20.6	6	11	SW (216)	100	0	
8/24/2020 8:00	21.9	9	15	SW (230)	100	0	0
8/24/2020 9:00	24.3	9	16	WSW (246)	94	0	
8/24/2020 10:00	26.3	12	18	SW (230)	70	0	
8/24/2020 11:00	27.7	15	22	SW (216)	63	0	
8/24/2020 12:00	28.6	16	25	SW (223)	57	0	
8/24/2020 13:00	29.3	16	27	SW (221)	59	0	
8/24/2020 14:00	29.3	16	28	SSW (199)	59	0	
8/24/2020 15:00	29.4	17	27	WSW (258)	59	0	
8/24/2020 16:00	22.8	15	59	ENE (70)	100	6.8	
8/24/2020 17:00	27.2	6	21	SSW (212)	80	0	
8/24/2020 18:00	27.9	9	20	SSW (196)	68	0	
8/24/2020 19:00	26.8	7	12	SW (222)	74	0	
8/24/2020 20:00	25.7	7	13	S (184)	78	0	
8/24/2020 21:00	25.2	9	14	SW (222)	77	0	
8/24/2020 22:00	24.7	10	18	SW (225)	82	0	
8/24/2020 23:00	23.5	9	14	SW (219)	87	0	
8/25/2020 0:00	23.2	9	12	W (271)	89	0	
8/25/2020 1:00	22.8	7	11	WSW (238)	92	0	
8/25/2020 2:00	22.1	5	8	W (261)	100	0	
8/25/2020 3:00	21.8	6	10	WNW (287)	100	0	
8/25/2020 4:00	21.1	4	7	WNW (282)	100	0	
8/25/2020 5:00	20.8	4	5	W (261)	100	0	
8/25/2020 6:00	20.7	6	10	WNW (293)	100	0	
8/25/2020 7:00	21.6	9	15	NW (324)	100	0	
8/25/2020 8:00	22.2	13	23	NNW (346)	100	0	6.8
8/25/2020 9:00	22.1	15	25	NNW (332)	100	0	
8/25/2020 10:00	22.7	17	31	N (9)	95	0	
8/25/2020 11:00	23.1	17	28	N (350)	76	0	
8/25/2020 12:00	23.5	16	28	NNW (331)	73	0	
8/25/2020 13:00	24	18	29	WNW (291)	72	0	
8/25/2020 14:00	24.2	16	26	NW (323)	71	0	
8/25/2020 15:00	25.1	14	22	NW (316)	61	0	
8/25/2020 16:00	25.2	15	24	NNE (14)	58	0	
8/25/2020 17:00	25.3	15	26	NNW (332)	54	0	
8/25/2020 18:00	24.6	13	21	N (0)	56	0	
8/25/2020 19:00	23.1	10	17	N (1)	62	0	
8/25/2020 20:00	21.4	5	8	NW (313)	66	0	
8/25/2020 21:00	20	6	7	W (272)	74	0	
8/25/2020 22:00	19.2	4	8	W (280)	80	0	
8/25/2020 23:00	18.7	3	7	SW (221)	80	0	
8/26/2020 0:00	17.7	7	11	SSW (198)	83	0	
8/26/2020 1:00	17.7	3	7	S (180)	83	0	
8/26/2020 2:00	17.6	2	6	S (175)	86	0	
8/26/2020 3:00	16.6	2	5	E (98)	96	0	
8/26/2020 4:00	16.2	3	5	E (86)	100	0	
8/26/2020 5:00	15.8	5	8	ESE (115)	100	0	
8/26/2020 6:00	16	3	7	ESE (108)	100	0	
8/26/2020 7:00	16.6	5	8	ESE (104)	95	0	
8/26/2020 8:00	18	5	8	ESE (123)	86	0	0
8/26/2020 9:00	18.5	7	13	S (185)	87	0	
8/26/2020 10:00	18.6	7	19	S (175)	93	0	
8/26/2020 11:00	19.1	7	24	SSW (197)	88	0	
8/26/2020 12:00	19.8	6	11	SW (217)	93	0.2	
8/26/2020 13:00	19.9	3	9	S (178)	98	0.2	
8/26/2020 14:00	20.3	2	6	W (272)	92	0	
8/26/2020 15:00	21.8	5	15	SW (235)	88	0	
8/26/2020 16:00	23.6	6	12	SSE (162)	75	0.2	
8/26/2020 17:00	24.6	8	15	SSW (210)	73	0	
8/26/2020 18:00	25	11	17	SSW (196)	72	0	
8/26/2020 19:00	23.9	9	17	S (181)	79	0	
8/26/2020 20:00	22.9	10	15	S (170)	86	0	
8/26/2020 21:00	21.9	10	15	SSE (153)	100	0	
8/26/2020 22:00	21.2	9	12	S (178)	100	0	
8/26/2020 23:00	20.7	6	12	SW (232)	100	0	
8/27/2020 0:00	21.2	9	17	SW (223)	100	0	
8/27/2020 1:00	21.5	10	16	WSW (239)	100	0	
8/27/2020 2:00	21.7	11	17	SW (222)	100	0	
8/27/2020 3:00	21.9	13	23	SW (228)	100	0	
8/27/2020 4:00	22	13	22	SSW (212)	100	0	
8/27/2020 5:00	21.6	13	20	SW (220)	100	0	
8/27/2020 6:00	21.9	16	24	SW (225)	100	0	
8/27/2020 7:00	22.2	15	24	SW (227)	100	0	
8/27/2020 8:00	23.4	19	29	WSW (258)	100	0	0.6
8/27/2020 9:00	25.2	18	29	WSW (257)	83	0	
8/27/2020 10:00	26.6	19	30	W (260)	78	0	
8/27/2020 11:00	28	17	29	WSW (255)	74	0	
8/27/2020 12:00	28.6	17	30	WSW (242)	70	0	
8/27/2020 13:00	29	17	26	WNW (282)	72	0	
8/27/2020 14:00	25.7	24	59	NW (310)	100	5.2	
8/27/2020 15:00	20.2	10	24	WNW (301)	100	3.8	
8/27/2020 16:00	23.5	12	26	WNW (301)	100	0	
8/27/2020 17:00	25.7	13	23	NW (312)	82	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/27/2020 18:00	26.1	15	25	NW (309)	79	0	
8/27/2020 19:00	25	13	20	NNW (343)	87	0	
8/27/2020 20:00	21.8	14	27	NNE (22)	100	0	
8/27/2020 21:00	20.5	11	21	NE (40)	100	0	
8/27/2020 22:00	20.2	10	17	NE (41)	100	0	
8/27/2020 23:00	19.3	5	11	ENE (75)	100	0	
8/28/2020 0:00	18.8	6	9	E (81)	100	0	
8/28/2020 1:00	18.4	3	7	E (98)	100	0	
8/28/2020 2:00	18.3	5	9	ESE (107)	100	0	
8/28/2020 3:00	18	5	8	SE (133)	100	0	
8/28/2020 4:00	18.4	5	9	SSE (160)	100	0	
8/28/2020 5:00	18.5	5	10	ESE (120)	100	0.6	
8/28/2020 6:00	18.4	7	11	SSE (159)	100	0.8	
8/28/2020 7:00	18.3	5	10	E (80)	100	9.8	
8/28/2020 8:00	17.8	10	17	ESE (123)	100	6.8	27
8/28/2020 9:00	18.6	5	12	NE (49)	100	0.4	
8/28/2020 10:00	18.6	7	19	SE (125)	100	4.4	
8/28/2020 11:00	19.4	8	13	ESE (111)	100	0	
8/28/2020 12:00	21.3	12	20	SE (136)	100	0	
8/28/2020 13:00	22.3	9	15	SW (217)	100	0	
8/28/2020 14:00	22.4	8	19	SSE (151)	100	0.4	
8/28/2020 15:00	23.1	6	13	S (170)	100	0	
8/28/2020 16:00	23.7	9	18	SE (138)	100	0	
8/28/2020 17:00	23.6	16	22	SSE (155)	100	0	
8/28/2020 18:00	23.6	16	27	SSE (162)	100	0	
8/28/2020 19:00	23.1	13	20	SSE (162)	100	0	
8/28/2020 20:00	22.8	17	30	SSW (210)	100	0	
8/28/2020 21:00	21.8	13	24	S (177)	100	0	
8/28/2020 22:00	21.3	13	28	SSW (200)	100	0	
8/28/2020 23:00	21.1	15	23	SSW (199)	100	0	
8/29/2020 0:00	21.2	18	30	S (171)	100	0	
8/29/2020 1:00	21.6	22	37	S (190)	100	0	
8/29/2020 2:00	21.4	23	42	SW (226)	100	1.6	
8/29/2020 3:00	20	13	24	SSW (197)	100	0.4	
8/29/2020 4:00	19.8	11	19	SSW (205)	100	0	
8/29/2020 5:00	19.4	10	17	SW (216)	100	0	
8/29/2020 6:00	19.5	13	22	SW (229)	100	0	
8/29/2020 7:00	19.7	14	22	SW (224)	100	0	
8/29/2020 8:00	20.4	16	26	WSW (237)	100	0	7.2
8/29/2020 9:00	20.5	20	38	WNW (292)	100	0	
8/29/2020 10:00	20.3	23	39	NNW (333)	100	0	
8/29/2020 11:00	19.8	31	47	NW (305)	100	0	
8/29/2020 12:00	19.1	31	47	NW (318)	95	0	
8/29/2020 13:00	19.5	29	46	NW (306)	91	0	
8/29/2020 14:00	20.1	27	42	WNW (288)	75	0	
8/29/2020 15:00	20.7	24	41	NW (308)	72	0	
8/29/2020 16:00	22	22	36	WNW (289)	69	0	
8/29/2020 17:00	22.7	21	33	WNW (298)	64	0	
8/29/2020 18:00	22.6	13	22	WNW (297)	65	0	
8/29/2020 19:00	21.4	21	35	NW (307)	65	0	
8/29/2020 20:00	19.8	18	27	WNW (302)	64	0	
8/29/2020 21:00	19.4	23	34	NW (318)	64	0	
8/29/2020 22:00	18	15	27	WNW (283)	68	0	
8/29/2020 23:00	17.4	13	25	WNW (294)	71	0	
8/30/2020 0:00	17.9	19	31	WNW (288)	72	0	
8/30/2020 1:00	16.7	16	27	WNW (288)	78	0	
8/30/2020 2:00	16.3	18	30	WNW (292)	79	0	
8/30/2020 3:00	16	16	27	WNW (287)	82	0	
8/30/2020 4:00	15.5	15	21	NW (304)	84	0	
8/30/2020 5:00	15	12	20	WNW (288)	86	0	
8/30/2020 6:00	14.7	11	20	WNW (301)	90	0	
8/30/2020 7:00	15.1	11	21	NW (308)	89	0	
8/30/2020 8:00	17	15	23	NW (323)	83	0	0
8/30/2020 9:00	17.8	17	29	NW (326)	81	0	
8/30/2020 10:00	18.8	16	27	WNW (300)	77	0	
8/30/2020 11:00	18.9	16	25	NNW (332)	79	0	
8/30/2020 12:00	20.1	15	25	N (0)	71	0	
8/30/2020 13:00	20.7	13	22	NNW (348)	67	0	
8/30/2020 14:00	21	13	21	NW (313)	66	0	
8/30/2020 15:00	21.1	13	20	NNW (328)	64	0	
8/30/2020 16:00	21.1	12	19	NNW (338)	65	0	
8/30/2020 17:00	20.9	12	20	NW (323)	67	0	
8/30/2020 18:00	20.1	11	18	N (1)	70	0	
8/30/2020 19:00	18.8	9	16	N (8)	76	0	
8/30/2020 20:00	16.8	4	7	NNE (18)	82	0	
8/30/2020 21:00	15.5	4	8	NW (307)	89	0	
8/30/2020 22:00	15.1	1	5	WNW (295)	90	0	
8/30/2020 23:00	14.2	3	4	E (95)	100	0	
8/31/2020 0:00	14.6	3	6	E (100)	100	0	
8/31/2020 1:00	14.2	3	5	E (82)	91	0	
8/31/2020 2:00	13.6	4	6	ENE (77)	100	0	
8/31/2020 3:00	13.4	7	9	ESE (108)	98	0	
8/31/2020 4:00	13.3	6	10	ESE (104)	100	0	
8/31/2020 5:00	13.3	7	10	E (93)	100	0	
8/31/2020 6:00	13.2	6	8	E (99)	100	0	
8/31/2020 7:00	13.9	8	14	E (91)	100	0	
8/31/2020 8:00	16.4	13	18	ESE (116)	100	0	0
8/31/2020 9:00	18.8	15	22	ESE (122)	95	0	
8/31/2020 10:00	20.8	20	29	SE (135)	75	0	
8/31/2020 11:00	21.9	18	26	SE (127)	70	0	
8/31/2020 12:00	22.8	18	29	ESE (118)	64	0	
8/31/2020 13:00	23.6	19	29	ESE (108)	58	0	
8/31/2020 14:00	24.2	19	29	SE (132)	54	0	
8/31/2020 15:00	24.2	16	26	SE (136)	51	0	
8/31/2020 16:00	24.2	15	27	SSE (151)	51	0	
8/31/2020 17:00	24.1	18	27	SE (138)	52	0	
8/31/2020 18:00	23.2	19	27	SE (132)	57	0	
8/31/2020 19:00	21.7	10	16	SE (146)	67	0	
8/31/2020 20:00	19.5	13	18	SE (134)	76	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
8/31/2020 21:00	18.6	11	15	SE (141)	84	0	
8/31/2020 22:00	18.2	12	17	SE (144)	87	0	
8/31/2020 23:00	18.4	12	14	SE (142)	90	0	
9/1/2020 0:00	18.1	13	15	SE (136)	100	0	
9/1/2020 1:00	18.1	13	16	SSE (150)	100	0	
9/1/2020 2:00	18.4	10	14	SSE (154)	100	0	
9/1/2020 3:00	18.2	8	13	S (169)	100	0	
9/1/2020 4:00	18.2	9	13	SSE (160)	100	0	
9/1/2020 5:00	18	10	15	SSE (162)	100	0	
9/1/2020 6:00	17.7	9	13	SE (142)	100	0	
9/1/2020 7:00	17.6	12	16	SE (140)	100	0	
9/1/2020 8:00	18.7	11	17	SSE (166)	100	0	0
9/1/2020 9:00	20.5	13	18	SSE (153)	100	0	
9/1/2020 10:00	22.7	13	21	SSE (152)	100	0	
9/1/2020 11:00	24.7	13	22	S (173)	100	0	
9/1/2020 12:00	26.2	16	27	S (175)	87	0	
9/1/2020 13:00	27.1	15	27	SSW (192)	62	0	
9/1/2020 14:00	27.1	18	30	SSE (163)	68	0	
9/1/2020 15:00	26.7	19	31	SSE (165)	70	0	
9/1/2020 16:00	26.4	19	30	SSE (167)	71	0	
9/1/2020 17:00	25.9	19	31	SE (142)	74	0	
9/1/2020 18:00	25.2	17	26	SSE (154)	76	0	
9/1/2020 19:00	24	16	21	SE (138)	81	0	
9/1/2020 20:00	23	15	22	SE (146)	85	0	
9/1/2020 21:00	22.5	16	25	SSE (150)	87	0	
9/1/2020 22:00	21.6	16	37	SE (132)	100	15	
9/1/2020 23:00	20	11	18	SE (124)	100	0	
9/2/2020 0:00	19.8	11	18	S (182)	100	0	
9/2/2020 1:00	20.2	7	11	SSE (152)	100	0	
9/2/2020 2:00	20.3	9	14	SE (144)	100	0	
9/2/2020 3:00	20.6	10	15	SSE (156)	100	0	
9/2/2020 4:00	21	12	18	S (173)	100	0	
9/2/2020 5:00	21.4	11	16	S (176)	100	0	
9/2/2020 6:00	21.7	12	21	SSW (201)	100	0.2	
9/2/2020 7:00	21.7	12	20	SW (222)	100	0	
9/2/2020 8:00	22.2	14	25	SW (236)	100	0	15.2
9/2/2020 9:00	22.5	15	23	WSW (257)	100	0	
9/2/2020 10:00	23.5	17	27	WSW (241)	100	0	
9/2/2020 11:00	23.6	16	28	W (264)	96	0	
9/2/2020 12:00	24.2	20	31	NW (308)	88	0	
9/2/2020 13:00	23.3	19	33	WNW (284)	90	0	
9/2/2020 14:00	24.6	14	25	WNW (291)	87	0	
9/2/2020 15:00	25.3	17	29	WSW (252)	60	0	
9/2/2020 16:00	25.1	17	32	WNW (282)	60	0	
9/2/2020 17:00	24.5	14	24	WNW (290)	58	0	
9/2/2020 18:00	23.3	11	18	WSW (247)	62	0	
9/2/2020 19:00	21.8	10	18	SW (234)	58	0	
9/2/2020 20:00	20.1	9	12	WSW (248)	68	0	
9/2/2020 21:00	18.8	8	12	SW (221)	72	0	
9/2/2020 22:00	18.2	8	12	W (279)	74	0	
9/2/2020 23:00	17.8	6	8	SW (230)	74	0	
9/3/2020 0:00	17.5	5	8	SW (221)	75	0	
9/3/2020 1:00	17.1	5	9	WSW (253)	81	0	
9/3/2020 2:00	15.9	3	6	SSW (208)	84	0	
9/3/2020 3:00	16	5	8	SSW (197)	82	0	
9/3/2020 4:00	15.8	7	9	S (170)	80	0	
9/3/2020 5:00	15	6	13	S (178)	85	0	
9/3/2020 6:00	15.1	9	12	S (174)	86	0	
9/3/2020 7:00	15.6	8	12	SSE (151)	85	0	
9/3/2020 8:00	17.2	11	18	SE (128)	82	0	0
9/3/2020 9:00	19.9	16	22	SSE (164)	73	0	
9/3/2020 10:00	22	18	31	S (170)	69	0	
9/3/2020 11:00	24	19	32	SSE (154)	61	0	
9/3/2020 12:00	25	21	37	SW (223)	58	0	
9/3/2020 13:00	25.9	23	39	SSW (206)	57	0	
9/3/2020 14:00	26.6	26	41	SSW (203)	51	0	
9/3/2020 15:00	26.6	28	46	SSW (213)	53	0	
9/3/2020 16:00	26.8	26	42	SSW (208)	53	0	
9/3/2020 17:00	26.6	24	38	SSW (206)	52	0	
9/3/2020 18:00	25.5	16	38	WSW (238)	55	0	
9/3/2020 19:00	23.2	16	30	WNW (291)	71	0	
9/3/2020 20:00	21.9	19	34	NW (307)	69	0	
9/3/2020 21:00	21.2	19	32	WNW (298)	73	0	
9/3/2020 22:00	20	17	31	NW (307)	77	0	
9/3/2020 23:00	18.3	14	25	NW (306)	74	0	
9/4/2020 0:00	17.2	11	18	W (281)	69	0	
9/4/2020 1:00	16.2	10	15	WNW (296)	77	0	
9/4/2020 2:00	15.3	9	17	W (271)	82	0	
9/4/2020 3:00	14.3	9	15	W (265)	83	0	
9/4/2020 4:00	13	8	10	SW (218)	82	0	
9/4/2020 5:00	12.3	8	11	SW (226)	86	0	
9/4/2020 6:00	11.5	7	10	WSW (237)	90	0	
9/4/2020 7:00	11.7	9	13	SW (223)	89	0	
9/4/2020 8:00	13.6	9	14	WSW (257)	85	0	0
9/4/2020 9:00	16.2	11	17	WSW (237)	77	0	
9/4/2020 10:00	17.8	14	23	WSW (254)	63	0	
9/4/2020 11:00	18.4	15	24	WSW (244)	59	0	
9/4/2020 12:00	19.2	14	28	W (280)	56	0	
9/4/2020 13:00	19.8	18	33	NW (311)	51	0	
9/4/2020 14:00	20.1	20	33	W (280)	47	0	
9/4/2020 15:00	20.4	21	34	NW (312)	45	0	
9/4/2020 16:00	20.5	19	32	WNW (302)	45	0	
9/4/2020 17:00	20.4	18	32	WNW (291)	45	0	
9/4/2020 18:00	19.8	10	20	W (260)	51	0	
9/4/2020 19:00	18.8	6	9	WSW (247)	59	0	
9/4/2020 20:00	16.8	7	9	WSW (239)	61	0	
9/4/2020 21:00	15.5	9	12	WSW (243)	69	0	
9/4/2020 22:00	14.3	9	12	SW (228)	71	0	
9/4/2020 23:00	13.7	11	14	SW (234)	73	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/5/2020 0:00	13.3	11	15	SW (223)	73	0	
9/5/2020 1:00	13.6	6	11	SW (216)	70	0	
9/5/2020 2:00	12.6	7	10	SW (236)	72	0	
9/5/2020 3:00	12.8	6	12	SSW (192)	72	0	
9/5/2020 4:00	13.1	7	14	WSW (239)	77	0	
9/5/2020 5:00	12.4	7	11	SW (217)	80	0	
9/5/2020 6:00	11.5	7	13	SW (215)	86	0	
9/5/2020 7:00	12.3	9	14	SW (215)	83	0	
9/5/2020 8:00	13.3	7	11	SW (226)	81	0	0
9/5/2020 9:00	13.9	7	11	SW (218)	82	0	
9/5/2020 10:00	14.3	5	10	SW (234)	84	0	
9/5/2020 11:00	14.4	7	11	SW (214)	88	0.6	
9/5/2020 12:00	15.2	8	14	SSW (202)	88	0	
9/5/2020 13:00	16.7	3	13	SSW (199)	77	0	
9/5/2020 14:00	17.1	4	9	N (354)	79	0	
9/5/2020 15:00	16.8	4	9	E (95)	85	0.8	
9/5/2020 16:00	16.6	7	13	ENE (76)	97	0.2	
9/5/2020 17:00	15.9	9	12	NE (55)	87	1.8	
9/5/2020 18:00	14.5	7	11	E (99)	90	0.8	
9/5/2020 19:00	14.5	7	10	ESE (123)	92	0	
9/5/2020 20:00	13.8	4	8	ENE (73)	100	0	
9/5/2020 21:00	12.7	3	7	E (84)	100	0	
9/5/2020 22:00	11.9	2	7	S (176)	100	0	
9/5/2020 23:00	11.4	2	4	E (95)	100	0	
9/6/2020 0:00	10.7	3	9	S (190)	100	0	
9/6/2020 1:00	10.6	3	6	ESE (108)	100	0	
9/6/2020 2:00	10.2	1	3	W (265)	100	0.2	
9/6/2020 3:00	10	3	12	ENE (69)	100	0	
9/6/2020 4:00	10.4	3	9	E (98)	100	0	
9/6/2020 5:00	11	7	10	SE (124)	100	0	
9/6/2020 6:00	10.1	2	9	S (176)	100	0	
9/6/2020 7:00	10.1	3	6	SE (140)	100	0	
9/6/2020 8:00	12.3	3	9	ESE (121)	100	0	4.4
9/6/2020 9:00	15.2	11	16	SE (127)	100	0	
9/6/2020 10:00	17.3	16	25	SE (134)	88	0	
9/6/2020 11:00	18.3	17	25	SE (127)	67	0	
9/6/2020 12:00	19.1	19	27	S (189)	66	0	
9/6/2020 13:00	19.4	19	27	S (169)	69	0	
9/6/2020 14:00	20	22	31	SSE (149)	69	0	
9/6/2020 15:00	20.2	21	30	SSE (166)	68	0	
9/6/2020 16:00	19.9	21	32	SSE (147)	71	0	
9/6/2020 17:00	19.6	24	35	SSE (154)	71	0	
9/6/2020 18:00	19.8	22	36	S (170)	69	0	
9/6/2020 19:00	18.7	17	30	SSE (153)	70	0	
9/6/2020 20:00	17.3	17	26	SE (138)	74	0	
9/6/2020 21:00	17	21	31	SE (146)	77	0	
9/6/2020 22:00	18	23	34	SSE (153)	75	0	
9/6/2020 23:00	19.3	25	37	S (172)	73	0	
9/7/2020 0:00	21	27	44	SSW (206)	67	0	
9/7/2020 1:00	21.5	26	40	SSW (197)	70	0	
9/7/2020 2:00	20.8	20	42	SW (225)	82	3.2	
9/7/2020 3:00	18.5	12	25	SW (222)	100	26	
9/7/2020 4:00	18.5	17	29	SW (228)	100	0.2	
9/7/2020 5:00	18.6	19	32	SSW (212)	100	0	
9/7/2020 6:00	18.7	23	36	SSE (167)	100	0	
9/7/2020 7:00	18.7	22	35	SSE (167)	100	0	
9/7/2020 8:00	19.1	18	29	S (188)	100	0	29.4
9/7/2020 9:00	19.7	19	30	S (179)	100	0	
9/7/2020 10:00	20.8	19	32	S (186)	100	0	
9/7/2020 11:00	22.1	20	36	S (187)	96	0	
9/7/2020 12:00	22.9	18	31	SSW (197)	81	0	
9/7/2020 13:00	23.8	18	31	WNW (282)	76	0	
9/7/2020 14:00	22.7	12	23	NW (317)	76	0	
9/7/2020 15:00	23	16	25	WNW (288)	64	0	
9/7/2020 16:00	21.9	15	25	NE (35)	75	0	
9/7/2020 17:00	20.5	12	18	NNE (26)	77	0	
9/7/2020 18:00	19.3	11	18	NNE (31)	80	0	
9/7/2020 19:00	18.6	5	10	N (9)	84	0	
9/7/2020 20:00	17.8	8	15	NNE (21)	87	0	
9/7/2020 21:00	17.7	12	20	NNE (19)	83	0	
9/7/2020 22:00	17.4	11	17	NE (46)	79	0	
9/7/2020 23:00	16.7	10	19	NE (49)	82	0	
9/8/2020 0:00	16.6	13	20	ENE (74)	78	0	
9/8/2020 1:00	16.3	11	18	NE (51)	74	0	
9/8/2020 2:00	15.8	15	21	NE (56)	70	0	
9/8/2020 3:00	15.4	16	27	ENE (62)	68	0	
9/8/2020 4:00	15	15	22	ENE (62)	72	0	
9/8/2020 5:00	13.1	16	26	NE (36)	100	0.8	
9/8/2020 6:00	12	15	23	ENE (64)	100	0.2	
9/8/2020 7:00	12.2	14	22	NNW (348)	100	0.6	
9/8/2020 8:00	12.1	14	23	NE (39)	100	0.4	2
9/8/2020 9:00	12.3	12	19	ENE (57)	100	2.4	
9/8/2020 10:00	12.7	18	24	ESE (107)	100	1.6	
9/8/2020 11:00	13.6	19	29	ESE (122)	100	1.2	
9/8/2020 12:00	15.4	9	21	WNW (295)	100	0	
9/8/2020 13:00	14.5	12	20	NNE (25)	100	0	
9/8/2020 14:00	14.2	12	20	NNE (30)	100	0	
9/8/2020 15:00	14.8	12	19	N (7)	100	0	
9/8/2020 16:00	15.3	12	18	N (11)	100	0	
9/8/2020 17:00	15.5	11	18	N (11)	100	0	
9/8/2020 18:00	15	12	21	NE (40)	100	0	
9/8/2020 19:00	14.5	11	18	ENE (73)	100	0	
9/8/2020 20:00	14.4	8	14	NE (35)	100	0	
9/8/2020 21:00	14.2	10	15	ENE (74)	100	0	
9/8/2020 22:00	14	7	13	NNE (29)	100	0	
9/8/2020 23:00	14	10	19	NE (34)	100	0	
9/9/2020 0:00	13.7	9	15	NNE (30)	100	0	
9/9/2020 1:00	13.6	10	15	NE (41)	100	0	
9/9/2020 2:00	13.7	8	12	NNE (30)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/9/2020 3:00	13.8	10	16	ENE (74)	100	0	
9/9/2020 4:00	13.7	9	15	NE (34)	100	0	
9/9/2020 5:00	13.6	9	14	NNE (14)	100	0	
9/9/2020 6:00	13.5	8	15	NNE (18)	100	0	
9/9/2020 7:00	13.9	7	12	ENE (78)	100	0	
9/9/2020 8:00	14.6	8	13	ESE (106)	100	0	5.2
9/9/2020 9:00	15.4	3	11	NW (314)	100	0	
9/9/2020 10:00	16.2	8	13	ENE (72)	100	0	
9/9/2020 11:00	17.4	5	9	NNE (18)	100	0	
9/9/2020 12:00	18.3	4	9	N (0)	97	0	
9/9/2020 13:00	19.2	6	11	NNE (17)	95	0	
9/9/2020 14:00	19.3	6	12	NNE (24)	95	0	
9/9/2020 15:00	19.5	6	13	N (5)	84	0	
9/9/2020 16:00	19.4	7	13	N (352)	84	0	
9/9/2020 17:00	18.8	11	19	NW (320)	87	0	
9/9/2020 18:00	18	10	19	NNW (333)	90	0	
9/9/2020 19:00	17.2	5	13	NNW (340)	100	0	
9/9/2020 20:00	16.4	5	8	NE (40)	100	0	
9/9/2020 21:00	15.7	3	4	WNW (299)	100	0	
9/9/2020 22:00	15.4	1	4	WNW (286)	100	0	
9/9/2020 23:00	15.8	1	5	W (269)	100	0	
9/10/2020 0:00	16.2	3	6	SW (235)	100	0	
9/10/2020 1:00	16.2	4	8	WSW (238)	100	0	
9/10/2020 2:00	16.3	4	8	WNW (299)	100	0	
9/10/2020 3:00	16.4	7	12	NNW (329)	100	0	
9/10/2020 4:00	16.7	12	21	NW (316)	100	0	
9/10/2020 5:00	16.3	13	20	NW (316)	100	0	
9/10/2020 6:00	16.1	11	19	NW (323)	100	0	
9/10/2020 7:00	15.8	12	22	NNW (327)	100	0	
9/10/2020 8:00	15.6	14	26	N (353)	100	0	0
9/10/2020 9:00	15.6	14	27	NNE (17)	100	0	
9/10/2020 10:00	16	17	28	N (1)	100	0	
9/10/2020 11:00	16.1	19	32	NNE (27)	100	0	
9/10/2020 12:00	17.1	16	28	NNW (334)	100	0	
9/10/2020 13:00	17.6	15	25	NNW (344)	96	0	
9/10/2020 14:00	17.1	16	26	NNW (332)	96	0	
9/10/2020 15:00	16.4	16	26	NNE (12)	100	0	
9/10/2020 16:00	16.2	14	26	N (0)	96	0	
9/10/2020 17:00	15.8	14	24	NNW (344)	97	0	
9/10/2020 18:00	15.2	12	24	N (351)	99	0	
9/10/2020 19:00	14.7	9	16	NNW (327)	100	0	
9/10/2020 20:00	14.3	7	13	N (6)	100	0	
9/10/2020 21:00	14.1	11	18	N (352)	100	0	
9/10/2020 22:00	13.3	12	18	N (4)	100	0	
9/10/2020 23:00	12.8	12	19	NE (49)	100	0	
9/11/2020 0:00	12	11	18	NE (35)	100	0	
9/11/2020 1:00	11.8	11	18	N (9)	100	0	
9/11/2020 2:00	11.6	13	23	NNE (25)	100	0	
9/11/2020 3:00	11.5	14	25	NNE (31)	100	0	
9/11/2020 4:00	11.4	15	22	NE (36)	99	0	
9/11/2020 5:00	10.9	12	21	N (0)	100	0	
9/11/2020 6:00	9.8	9	13	NE (37)	100	0	
9/11/2020 7:00	9.9	10	15	NNE (29)	100	0	
9/11/2020 8:00	11.2	14	24	NE (42)	100	0	0
9/11/2020 9:00	12.9	18	28	NNE (26)	77	0	
9/11/2020 10:00	13.6	17	29	NE (43)	67	0	
9/11/2020 11:00	14.4	13	25	NE (35)	66	0	
9/11/2020 12:00	15.5	12	20	NE (48)	67	0	
9/11/2020 13:00	16.2	10	21	NE (36)	63	0	
9/11/2020 14:00	17.1	7	17	SE (128)	62	0	
9/11/2020 15:00	17.7	7	19	ENE (70)	63	0	
9/11/2020 16:00	18.2	10	20	NE (38)	59	0	
9/11/2020 17:00	18.3	10	18	NE (50)	57	0	
9/11/2020 18:00	17.4	12	18	N (8)	70	0	
9/11/2020 19:00	14.8	10	15	NNE (19)	86	0	
9/11/2020 20:00	12.8	6	9	NE (38)	92	0	
9/11/2020 21:00	12.3	7	11	E (95)	100	0	
9/11/2020 22:00	12.4	9	16	ESE (123)	100	0	
9/11/2020 23:00	12.2	12	18	E (98)	83	0	
9/12/2020 0:00	11.2	13	18	E (91)	83	0	
9/12/2020 1:00	10.1	10	13	E (87)	86	0	
9/12/2020 2:00	10	13	19	E (85)	84	0	
9/12/2020 3:00	10.2	16	25	ESE (113)	83	0	
9/12/2020 4:00	10.1	14	20	E (95)	85	0	
9/12/2020 5:00	10.1	14	18	E (88)	90	0	
9/12/2020 6:00	10	14	18	E (91)	100	0	
9/12/2020 7:00	10.5	18	27	E (101)	100	0	
9/12/2020 8:00	12.4	21	30	ESE (108)	100	0	0
9/12/2020 9:00	14.7	24	33	ESE (109)	92	0	
9/12/2020 10:00	16.6	23	31	ESE (123)	80	0	
9/12/2020 11:00	18.6	22	30	SE (137)	77	0	
9/12/2020 12:00	20.5	20	28	SSE (152)	73	0	
9/12/2020 13:00	21.2	20	31	SE (126)	75	0	
9/12/2020 14:00	22.2	16	24	SE (137)	74	0	
9/12/2020 15:00	23.2	19	27	SE (136)	71	0	
9/12/2020 16:00	23.2	18	27	SE (133)	71	0	
9/12/2020 17:00	22.4	23	31	SE (140)	73	0	
9/12/2020 18:00	21.6	22	30	SE (141)	77	0	
9/12/2020 19:00	20.3	20	30	SE (129)	86	0	
9/12/2020 20:00	19.1	11	19	SE (124)	89	0	
9/12/2020 21:00	18.9	16	22	ESE (121)	100	0	
9/12/2020 22:00	18.8	15	19	SE (129)	100	0	
9/12/2020 23:00	19.2	14	19	SE (134)	100	0	
9/13/2020 0:00	20.1	15	19	SE (134)	100	0	
9/13/2020 1:00	20.7	14	20	SSE (153)	100	0	
9/13/2020 2:00	21.4	14	22	S (174)	100	0	
9/13/2020 3:00	22	14	21	SSW (212)	100	0	
9/13/2020 4:00	22	11	20	SW (215)	100	0	
9/13/2020 5:00	21.7	12	23	WSW (240)	100	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/13/2020 6:00	20.9	10	22	WSW (242)	100	0	
9/13/2020 7:00	20	9	16	W (274)	100	0.8	
9/13/2020 8:00	19.6	12	22	WSW (253)	100	0	0.8
9/13/2020 9:00	19.8	14	24	SW (234)	100	0	
9/13/2020 10:00	20.3	19	35	WNW (286)	94	0	
9/13/2020 11:00	21.1	19	29	SW (230)	82	0	
9/13/2020 12:00	21.8	20	34	W (276)	68	0	
9/13/2020 13:00	21.7	23	37	NW (312)	66	0	
9/13/2020 14:00	21.7	22	33	W (272)	63	0	
9/13/2020 15:00	22.1	19	30	NW (310)	60	0	
9/13/2020 16:00	21.7	22	33	WNW (284)	66	0	
9/13/2020 17:00	21.2	19	29	WNW (292)	65	0	
9/13/2020 18:00	20.6	16	25	WNW (302)	68	0	
9/13/2020 19:00	19.3	13	21	WNW (303)	79	0	
9/13/2020 20:00	17.4	11	15	WNW (292)	84	0	
9/13/2020 21:00	16.7	10	15	WNW (298)	87	0	
9/13/2020 22:00	16.4	9	13	W (276)	89	0	
9/13/2020 23:00	15.7	6	10	NW (311)	100	0	
9/14/2020 0:00	15.1	7	10	NW (313)	100	0	
9/14/2020 1:00	15	8	16	NNW (338)	98	0	
9/14/2020 2:00	15.1	8	14	NNW (348)	81	0	
9/14/2020 3:00	14.1	7	11	NNW (339)	83	0	
9/14/2020 4:00	13.5	7	10	NW (317)	81	0	
9/14/2020 5:00	12.6	7	11	NW (315)	82	0	
9/14/2020 6:00	11.8	7	9	NW (314)	90	0	
9/14/2020 7:00	11.8	4	7	NNE (25)	91	0	
9/14/2020 8:00	12.8	3	7	NNE (15)	87	0	0
9/14/2020 9:00	13.9	10	19	NE (49)	85	0	
9/14/2020 10:00	14.8	13	21	NE (35)	79	0	
9/14/2020 11:00	15.8	12	20	NNE (22)	67	0	
9/14/2020 12:00	16.3	14	25	NNE (28)	62	0	
9/14/2020 13:00	16.8	14	22	NW (319)	57	0	
9/14/2020 14:00	16.6	12	22	N (0)	58	0	
9/14/2020 15:00	16.7	11	23	NNE (19)	59	0	
9/14/2020 16:00	16.2	11	21	NW (311)	61	0	
9/14/2020 17:00	15.7	11	21	NNE (12)	65	0	
9/14/2020 18:00	14.7	10	16	N (0)	72	0	
9/14/2020 19:00	12.8	8	15	WNW (301)	80	0	
9/14/2020 20:00	11.4	5	9	NNW (348)	84	0	
9/14/2020 21:00	10.5	4	6	ENE (74)	87	0	
9/14/2020 22:00	9.6	3	7	NNE (21)	87	0	
9/14/2020 23:00	9.1	5	8	ENE (78)	88	0	
9/15/2020 0:00	8.2	7	9	E (90)	86	0	
9/15/2020 1:00	7.7	7	10	ESE (107)	89	0	
9/15/2020 2:00	7.3	6	9	ESE (116)	96	0	
9/15/2020 3:00	7.5	7	9	ESE (108)	94	0	
9/15/2020 4:00	7	6	9	ESE (108)	92	0	
9/15/2020 5:00	6.5	8	11	E (99)	93	0	
9/15/2020 6:00	6.6	9	12	E (99)	92	0	
9/15/2020 7:00	7	8	12	ESE (114)	88	0	
9/15/2020 8:00	8.1	10	15	E (95)	82	0	0
9/15/2020 9:00	10.3	9	15	SE (135)	80	0	
9/15/2020 10:00	12.8	10	15	S (174)	80	0	
9/15/2020 11:00	15.8	11	21	S (191)	71	0	
9/15/2020 12:00	17.2	13	24	SSW (207)	61	0	
9/15/2020 13:00	18.3	13	26	S (191)	56	0	
9/15/2020 14:00	19	17	31	SW (218)	54	0	
9/15/2020 15:00	19.5	15	29	SSE (155)	52	0	
9/15/2020 16:00	19.7	15	25	SSW (198)	55	0	
9/15/2020 17:00	19.3	15	26	SSW (194)	63	0	
9/15/2020 18:00	18.4	13	26	SSW (199)	70	0	
9/15/2020 19:00	16.6	13	20	S (172)	79	0	
9/15/2020 20:00	15	14	21	S (170)	82	0	
9/15/2020 21:00	13.9	12	19	SSE (167)	84	0	
9/15/2020 22:00	13.4	14	20	S (180)	85	0	
9/15/2020 23:00	13.6	16	23	SSE (164)	84	0	
9/16/2020 0:00	13.6	14	22	SSE (165)	86	0	
9/16/2020 1:00	13.9	11	19	SSW (194)	86	0	
9/16/2020 2:00	14.3	13	20	SSW (202)	85	0	
9/16/2020 3:00	14.5	13	24	SSE (160)	84	0	
9/16/2020 4:00	14	11	20	SSE (161)	85	0	
9/16/2020 5:00	13.7	11	18	S (191)	86	0	
9/16/2020 6:00	13.2	9	17	SSE (162)	87	0	
9/16/2020 7:00	13	10	17	SSW (195)	87	0	
9/16/2020 8:00	14	13	24	SW (219)	87	0	0
9/16/2020 9:00	15.2	15	25	SSE (152)	83	0	
9/16/2020 10:00	17	16	30	SW (223)	79	0	
9/16/2020 11:00	19	16	29	SSW (200)	70	0	
9/16/2020 12:00	20.6	16	27	SSE (164)	62	0	
9/16/2020 13:00	21.8	17	27	SSW (213)	58	0	
9/16/2020 14:00	23.1	18	29	SW (230)	56	0	
9/16/2020 15:00	23.6	18	30	WSW (238)	55	0	
9/16/2020 16:00	23.6	18	31	SW (216)	55	0	
9/16/2020 17:00	23	17	29	SSE (162)	61	0	
9/16/2020 18:00	21.7	14	24	SW (214)	66	0	
9/16/2020 19:00	19.8	10	17	SSW (204)	72	0	
9/16/2020 20:00	19	12	19	SSW (202)	72	0	
9/16/2020 21:00	18.7	11	27	WNW (290)	76	0	
9/16/2020 22:00	17.1	19	32	N (8)	76	0	
9/16/2020 23:00	16.4	17	26	N (354)	65	0	
9/17/2020 0:00	16	14	25	N (6)	74	0	
9/17/2020 1:00	15.8	12	21	N (5)	77	0	
9/17/2020 2:00	15.2	13	20	N (352)	79	0	
9/17/2020 3:00	14.3	11	22	N (7)	81	0	
9/17/2020 4:00	13.4	9	17	N (11)	79	0	
9/17/2020 5:00	12.5	9	16	NNW (342)	80	0	
9/17/2020 6:00	11.4	7	11	NNE (29)	85	0	
9/17/2020 7:00	10.4	6	10	NNE (17)	89	0	
9/17/2020 8:00	12.1	6	11	NNE (13)	84	0	0

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/17/2020 9:00	14.1	10	17	N (1)	77	0	
9/17/2020 10:00	15.4	12	22	N (6)	72	0	
9/17/2020 11:00	16.3	15	26	N (2)	67	0	
9/17/2020 12:00	16.9	15	26	WNW (300)	60	0	
9/17/2020 13:00	17.1	18	30	N (4)	57	0	
9/17/2020 14:00	17.2	17	27	NNE (15)	59	0	
9/17/2020 15:00	17.1	17	29	NW (321)	58	0	
9/17/2020 16:00	16.7	18	30	N (0)	62	0	
9/17/2020 17:00	15.6	20	34	NE (55)	67	0	
9/17/2020 18:00	14	21	39	N (352)	70	0	
9/17/2020 19:00	12.5	19	33	N (0)	71	0	
9/17/2020 20:00	11.4	15	27	NNW (341)	73	0	
9/17/2020 21:00	10.5	13	21	NNE (19)	76	0	
9/17/2020 22:00	9	10	18	NE (38)	77	0	
9/17/2020 23:00	8.7	13	22	NE (45)	71	0	
9/18/2020 0:00	7.7	11	17	NE (45)	75	0	
9/18/2020 1:00	7	10	15	NE (34)	74	0	
9/18/2020 2:00	6.5	9	14	NNE (33)	79	0	
9/18/2020 3:00	5.3	8	10	NE (35)	83	0	
9/18/2020 4:00	5.1	9	12	NE (34)	81	0	
9/18/2020 5:00	4.8	9	12	NNE (28)	82	0	
9/18/2020 6:00	5	9	11	NNE (29)	80	0	
9/18/2020 7:00	5.5	7	11	NE (51)	79	0	
9/18/2020 8:00	7.6	11	19	NE (38)	73	0	0
9/18/2020 9:00	10.4	14	26	NNE (21)	63	0	
9/18/2020 10:00	12	19	30	NNE (27)	64	0	
9/18/2020 11:00	12.7	19	32	N (6)	56	0	
9/18/2020 12:00	13.4	17	33	N (1)	56	0	
9/18/2020 13:00	13.4	21	34	N (0)	51	0	
9/18/2020 14:00	13.3	20	35	NNW (332)	48	0	
9/18/2020 15:00	13.3	21	35	NNW (334)	46	0	
9/18/2020 16:00	12.8	21	34	N (354)	48	0	
9/18/2020 17:00	12.2	21	35	NNW (336)	50	0	
9/18/2020 18:00	11.3	19	32	N (350)	53	0	
9/18/2020 19:00	9.7	11	23	NNW (347)	63	0	
9/18/2020 20:00	8	8	14	N (9)	71	0	
9/18/2020 21:00	6.2	8	12	NE (34)	76	0	
9/18/2020 22:00	6.1	12	17	NNE (16)	71	0	
9/18/2020 23:00	5.1	9	14	NE (53)	75	0	
9/19/2020 0:00	3.8	6	10	NE (56)	77	0	
9/19/2020 1:00	3.1	6	10	NE (54)	79	0	
9/19/2020 2:00	3.3	4	7	ENE (77)	76	0	
9/19/2020 3:00	2.9	6	7	ENE (64)	78	0	
9/19/2020 4:00	3.3	8	10	E (86)	70	0	
9/19/2020 5:00	2.6	5	10	ENE (58)	76	0	
9/19/2020 6:00	1.7	6	9	ENE (70)	80	0	
9/19/2020 7:00	2.2	9	12	NE (54)	78	0	
9/19/2020 8:00	4.9	8	13	ENE (62)	77	0	0
9/19/2020 9:00	8.4	9	13	ENE (74)	65	0	
9/19/2020 10:00	10.7	8	14	ENE (65)	53	0	
9/19/2020 11:00	12	8	17	E (97)	46	0	
9/19/2020 12:00	13	6	17	SSW (210)	43	0	
9/19/2020 13:00	14.2	5	14	ESE (113)	40	0	
9/19/2020 14:00	15	6	17	SE (127)	37	0	
9/19/2020 15:00	15.6	6	13	NE (54)	34	0	
9/19/2020 16:00	16	5	12	NNW (338)	38	0	
9/19/2020 17:00	15	11	21	N (1)	45	0	
9/19/2020 18:00	13.2	11	20	N (0)	53	0	
9/19/2020 19:00	10.9	7	11	ENE (73)	63	0	
9/19/2020 20:00	9.7	7	10	E (100)	68	0	
9/19/2020 21:00	8.3	7	10	ENE (66)	74	0	
9/19/2020 22:00	7.8	4	7	E (94)	74	0	
9/19/2020 23:00	7.4	5	7	E (95)	76	0	
9/20/2020 0:00	6.2	8	11	ENE (77)	82	0	
9/20/2020 1:00	5.9	6	9	E (83)	83	0	
9/20/2020 2:00	6.9	7	10	E (98)	82	0	
9/20/2020 3:00	6.8	7	10	ESE (118)	80	0	
9/20/2020 4:00	6.4	9	13	ESE (106)	81	0	
9/20/2020 5:00	7	10	14	E (100)	74	0	
9/20/2020 6:00	6.3	10	14	E (97)	75	0	
9/20/2020 7:00	7.2	13	17	E (92)	74	0	
9/20/2020 8:00	9	14	20	ESE (107)	68	0	0
9/20/2020 9:00	11.9	16	23	E (96)	64	0	
9/20/2020 10:00	14.2	17	23	ESE (110)	53	0	
9/20/2020 11:00	15.4	14	22	ESE (123)	42	0	
9/20/2020 12:00	16.2	13	24	SE (143)	41	0	
9/20/2020 13:00	17	13	23	ENE (76)	40	0	
9/20/2020 14:00	17.4	11	22	ESE (116)	39	0	
9/20/2020 15:00	18	11	20	ENE (70)	37	0	
9/20/2020 16:00	18	13	25	SE (129)	37	0	
9/20/2020 17:00	17.4	16	23	SSE (166)	37	0	
9/20/2020 18:00	16.4	14	21	SE (136)	43	0	
9/20/2020 19:00	14.3	11	15	SSE (152)	51	0	
9/20/2020 20:00	12.8	9	13	SSE (166)	55	0	
9/20/2020 21:00	10.6	5	13	ESE (110)	70	0	
9/20/2020 22:00	9.2	10	15	E (101)	70	0	
9/20/2020 23:00	8.7	12	15	E (99)	72	0	
9/21/2020 0:00	7.9	11	15	E (101)	74	0	
9/21/2020 1:00	7.6	14	16	E (100)	75	0	
9/21/2020 2:00	7.8	14	18	ESE (107)	74	0	
9/21/2020 3:00	7.7	14	17	E (99)	75	0	
9/21/2020 4:00	7.4	13	17	E (97)	78	0	
9/21/2020 5:00	7.3	14	18	E (101)	80	0	
9/21/2020 6:00	6.7	12	16	ESE (102)	84	0	
9/21/2020 7:00	6.7	12	15	ESE (102)	84	0	
9/21/2020 8:00	8.8	12	16	SE (127)	81	0	0
9/21/2020 9:00	12.8	10	15	SSE (162)	73	0	
9/21/2020 10:00	16.1	12	22	SSW (199)	64	0	
9/21/2020 11:00	17.9	13	25	SSE (167)	51	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/21/2020 12:00	18.9	14	25	SSE (164)	42	0	
9/21/2020 13:00	19.6	14	26	SE (140)	40	0	
9/21/2020 14:00	20	18	31	SE (143)	38	0	
9/21/2020 15:00	19.9	19	31	SSE (151)	40	0	
9/21/2020 16:00	19.4	19	29	SSE (152)	36	0	
9/21/2020 17:00	18.7	19	30	SE (142)	37	0	
9/21/2020 18:00	17.2	17	25	SE (140)	44	0	
9/21/2020 19:00	14.4	14	19	SE (134)	54	0	
9/21/2020 20:00	12.4	9	13	ESE (123)	62	0	
9/21/2020 21:00	11.2	9	11	SE (125)	67	0	
9/21/2020 22:00	10.6	9	11	ESE (123)	70	0	
9/21/2020 23:00	10.1	10	12	SE (126)	73	0	
9/22/2020 0:00	10	11	14	SE (133)	75	0	
9/22/2020 1:00	10	11	15	SE (132)	75	0	
9/22/2020 2:00	9.5	11	14	SE (134)	76	0	
9/22/2020 3:00	9.4	11	14	SE (137)	78	0	
9/22/2020 4:00	8.9	8	13	SE (126)	82	0	
9/22/2020 5:00	8.1	7	11	SE (133)	85	0	
9/22/2020 6:00	8.8	5	10	SE (134)	84	0	
9/22/2020 7:00	9	6	11	SE (124)	83	0	
9/22/2020 8:00	10	6	9	SSE (161)	82	0	0
9/22/2020 9:00	13	5	10	SSW (213)	79	0	
9/22/2020 10:00	16.3	9	16	SSW (201)	74	0	
9/22/2020 11:00	18.4	11	17	WSW (243)	56	0	
9/22/2020 12:00	19.7	11	19	WSW (252)	48	0	
9/22/2020 13:00	21	8	15	SW (233)	44	0	
9/22/2020 14:00	22.2	9	19	SSW (206)	38	0	
9/22/2020 15:00	23	8	18	W (265)	36	0	
9/22/2020 16:00	23.3	10	17	SSW (207)	33	0	
9/22/2020 17:00	22.5	9	19	WSW (239)	35	0	
9/22/2020 18:00	21.6	13	24	SW (226)	41	0	
9/22/2020 19:00	18.7	6	10	SSW (200)	46	0	
9/22/2020 20:00	16.8	6	11	SW (214)	56	0	
9/22/2020 21:00	15.2	5	10	SW (228)	61	0	
9/22/2020 22:00	13.8	8	12	SW (232)	71	0	
9/22/2020 23:00	13.3	9	12	SW (229)	75	0	
9/23/2020 0:00	12.8	8	11	SW (216)	79	0	
9/23/2020 1:00	12.5	9	11	WSW (238)	82	0	
9/23/2020 2:00	12.3	8	11	SW (222)	84	0	
9/23/2020 3:00	12.2	6	9	WSW (244)	84	0	
9/23/2020 4:00	12	3	6	E (91)	92	0	
9/23/2020 5:00	11.3	1	4	SW (216)	100	0	
9/23/2020 6:00	10.8	2	7	SSW (212)	100	0	
9/23/2020 7:00	11.5	6	9	SSW (209)	100	0	
9/23/2020 8:00	12.5	6	9	SW (220)	100	0	0
9/23/2020 9:00	15.2	7	13	SW (236)	100	0	
9/23/2020 10:00	17.8	7	13	SW (219)	78	0	
9/23/2020 11:00	20.3	8	14	SW (228)	68	0	
9/23/2020 12:00	22.6	10	18	W (268)	61	0	
9/23/2020 13:00	24.2	9	19	W (263)	52	0	
9/23/2020 14:00	24.8	10	21	SW (232)	45	0	
9/23/2020 15:00	25.3	10	21	WNW (291)	43	0	
9/23/2020 16:00	25.4	11	20	NW (313)	38	0	
9/23/2020 17:00	25.2	9	18	NW (311)	39	0	
9/23/2020 18:00	24.5	5	9	SW (220)	48	0	
9/23/2020 19:00	22.2	5	8	S (185)	58	0	
9/23/2020 20:00	21	5	10	SSW (197)	63	0	
9/23/2020 21:00	19.7	7	11	SW (220)	73	0	
9/23/2020 22:00	18.7	7	12	SSW (203)	77	0	
9/23/2020 23:00	18.2	8	13	SSW (205)	76	0	
9/24/2020 0:00	17.5	7	11	SW (228)	82	0	
9/24/2020 1:00	16.7	6	9	SW (227)	84	0	
9/24/2020 2:00	16.5	6	10	SW (236)	84	0	
9/24/2020 3:00	15.7	8	10	SW (217)	88	0	
9/24/2020 4:00	15.5	6	9	SSW (208)	90	0	
9/24/2020 5:00	15.5	6	8	WSW (251)	88	0	
9/24/2020 6:00	15	7	12	SW (217)	98	0	
9/24/2020 7:00	14.4	9	14	SSW (209)	100	0	
9/24/2020 8:00	15	9	13	SW (223)	100	0	0
9/24/2020 9:00	17.2	9	16	W (265)	99	0	
9/24/2020 10:00	19.9	10	17	WNW (296)	76	0	
9/24/2020 11:00	22	11	22	SW (221)	67	0	
9/24/2020 12:00	23.1	14	24	WSW (238)	60	0	
9/24/2020 13:00	24	13	22	WSW (256)	56	0	
9/24/2020 14:00	24.4	11	20	WSW (250)	55	0	
9/24/2020 15:00	25.2	12	22	WSW (252)	46	0	
9/24/2020 16:00	24.9	10	19	SSW (200)	47	0	
9/24/2020 17:00	24.6	11	18	WSW (258)	49	0	
9/24/2020 18:00	22.9	9	17	SSW (198)	56	0	
9/24/2020 19:00	21.1	7	13	SW (214)	56	0	
9/24/2020 20:00	19.8	8	14	S (175)	60	0	
9/24/2020 21:00	18.3	9	14	S (191)	68	0	
9/24/2020 22:00	17.4	6	9	SSW (200)	70	0	
9/24/2020 23:00	16.4	5	9	WSW (237)	79	0	
9/25/2020 0:00	15.7	3	6	SSW (202)	79	0	
9/25/2020 1:00	14.6	3	8	S (184)	85	0	
9/25/2020 2:00	15.1	7	10	S (183)	80	0	
9/25/2020 3:00	14.1	5	10	S (172)	87	0	
9/25/2020 4:00	14.2	6	8	S (182)	87	0	
9/25/2020 5:00	13.8	5	10	SSW (211)	90	0	
9/25/2020 6:00	12.8	2	6	ESE (114)	100	0	
9/25/2020 7:00	12	4	5	SE (133)	100	0	
9/25/2020 8:00	14.2	1	5	SE (126)	100	0	0
9/25/2020 9:00	17.1	6	9	SE (135)	98	0	
9/25/2020 10:00	20.1	6	10	ESE (119)	76	0	
9/25/2020 11:00	23	6	10	ESE (113)	63	0	
9/25/2020 12:00	24.6	4	10	SW (232)	54	0	
9/25/2020 13:00	25.4	3	11	NE (53)	50	0	
9/25/2020 14:00	25.8	7	17	S (171)	48	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/25/2020 15:00	26.4	10	22	SSE (168)	43	0	
9/25/2020 16:00	26.1	15	24	SSE (161)	49	0	
9/25/2020 17:00	25.1	19	27	SE (144)	51	0	
9/25/2020 18:00	23.4	16	25	SSE (150)	55	0	
9/25/2020 19:00	20.9	10	14	SE (140)	62	0	
9/25/2020 20:00	19.1	9	12	SSE (149)	66	0	
9/25/2020 21:00	17.8	12	15	SE (135)	71	0	
9/25/2020 22:00	16.8	14	17	SE (138)	75	0	
9/25/2020 23:00	15.9	16	20	SE (124)	100	0	
9/26/2020 0:00	15.9	16	21	SE (138)	100	0	
9/26/2020 1:00	16.1	15	20	SE (141)	100	0	
9/26/2020 2:00	17	19	27	SSE (148)	100	0	
9/26/2020 3:00	16.8	14	18	SSE (150)	100	0	
9/26/2020 4:00	16.4	11	17	SSE (155)	100	0	
9/26/2020 5:00	16	11	14	SSE (160)	100	0	
9/26/2020 6:00	15.8	13	16	SSE (149)	100	0	
9/26/2020 7:00	15.6	11	17	S (171)	100	0	
9/26/2020 8:00	16.7	13	17	S (185)	100	0	0
9/26/2020 9:00	18.8	13	20	S (179)	100	0	
9/26/2020 10:00	21.2	14	26	S (182)	76	0	
9/26/2020 11:00	22.8	16	28	SSW (205)	66	0	
9/26/2020 12:00	24.2	19	31	SSE (153)	56	0	
9/26/2020 13:00	25.2	21	34	WSW (240)	53	0	
9/26/2020 14:00	25.7	20	40	SSW (200)	50	0	
9/26/2020 15:00	25.6	21	39	SSW (202)	53	0	
9/26/2020 16:00	24.6	23	36	SSW (196)	59	0	
9/26/2020 17:00	24.1	21	37	S (181)	60	0	
9/26/2020 18:00	23.7	18	30	SW (217)	62	0	
9/26/2020 19:00	22.1	15	24	SSE (150)	70	0	
9/26/2020 20:00	20.4	18	23	SSE (153)	77	0	
9/26/2020 21:00	19.9	19	27	S (169)	78	0	
9/26/2020 22:00	19.6	17	25	SSE (166)	80	0	
9/26/2020 23:00	19.7	18	26	S (174)	81	0	
9/27/2020 0:00	20.2	17	28	S (179)	76	0	
9/27/2020 1:00	20	18	28	SSE (156)	76	0	
9/27/2020 2:00	19.7	21	38	S (177)	77	0	
9/27/2020 3:00	19.4	21	37	SSW (193)	78	0	
9/27/2020 4:00	18.9	21	32	SSW (209)	81	0	
9/27/2020 5:00	18.4	20	35	SSW (206)	83	0	
9/27/2020 6:00	18	20	36	SW (224)	85	0	
9/27/2020 7:00	17.7	20	31	SSE (163)	87	0	
9/27/2020 8:00	17.9	19	34	S (184)	87	0	0
9/27/2020 9:00	18.5	21	38	SSW (206)	84	0	
9/27/2020 10:00	19.7	20	32	SSW (207)	80	0	
9/27/2020 11:00	21.4	20	34	S (175)	73	0	
9/27/2020 12:00	22.9	19	36	SSW (198)	67	0	
9/27/2020 13:00	23.8	21	33	S (178)	63	0	
9/27/2020 14:00	24.6	21	39	SSW (202)	61	0	
9/27/2020 15:00	24.4	18	35	SSW (197)	62	0	
9/27/2020 16:00	24.1	16	26	SW (236)	62	0	
9/27/2020 17:00	24.2	18	31	SW (215)	62	0	
9/27/2020 18:00	23.7	11	26	SSE (164)	63	0	
9/27/2020 19:00	23.4	6	13	SSE (168)	67	0	
9/27/2020 20:00	22.3	4	9	S (172)	74	0	
9/27/2020 21:00	21.3	8	13	SE (140)	76	0	
9/27/2020 22:00	20.3	9	17	SSE (152)	76	0	
9/27/2020 23:00	19.8	14	20	S (189)	79	0	
9/28/2020 0:00	19.5	14	23	S (181)	78	0	
9/28/2020 1:00	19	11	21	S (186)	82	0	
9/28/2020 2:00	17.7	6	10	S (189)	92	0	
9/28/2020 3:00	16.6	3	6	S (170)	100	0	
9/28/2020 4:00	17	9	16	SSE (164)	100	0	
9/28/2020 5:00	16.6	12	17	SSE (149)	100	0	
9/28/2020 6:00	16.1	12	16	SE (138)	100	0	
9/28/2020 7:00	16	14	22	SE (144)	100	0	
9/28/2020 8:00	17.2	14	23	SSE (168)	100	0	0
9/28/2020 9:00	18.7	15	24	SW (224)	100	0	
9/28/2020 10:00	19.8	16	27	S (177)	100	0	
9/28/2020 11:00	21.2	16	29	SSW (208)	77	0	
9/28/2020 12:00	21.9	17	27	WSW (249)	72	0	
9/28/2020 13:00	22.8	18	34	SW (223)	68	0	
9/28/2020 14:00	22	19	33	SSE (151)	73	0	
9/28/2020 15:00	20.4	17	30	SSW (207)	83	0	
9/28/2020 16:00	19.6	18	30	W (274)	96	0.4	
9/28/2020 17:00	14.6	20	34	WNW (296)	100	4	
9/28/2020 18:00	13.6	16	28	WNW (303)	100	3.2	
9/28/2020 19:00	12.8	17	30	WNW (286)	100	3.2	
9/28/2020 20:00	12.5	11	16	W (277)	100	2	
9/28/2020 21:00	12.3	10	17	W (280)	100	2	
9/28/2020 22:00	12.3	11	22	W (264)	100	0.2	
9/28/2020 23:00	11.9	11	20	W (261)	100	0	
9/29/2020 0:00	11.7	9	14	SSW (209)	100	0	
9/29/2020 1:00	11.6	9	17	SW (215)	100	0	
9/29/2020 2:00	11.3	11	17	SW (232)	100	0	
9/29/2020 3:00	11	12	21	SW (222)	100	0	
9/29/2020 4:00	10.8	14	27	SW (223)	100	0	
9/29/2020 5:00	10.3	13	20	SW (229)	100	0	
9/29/2020 6:00	9.8	10	15	SW (216)	100	0.2	
9/29/2020 7:00	9.6	9	14	SSW (210)	100	0	
9/29/2020 8:00	10.3	9	16	WSW (247)	100	0	15.2
9/29/2020 9:00	11.7	12	19	SW (231)	100	0	
9/29/2020 10:00	13.1	11	20	SW (230)	99	0	
9/29/2020 11:00	14.6	13	21	SW (232)	88	0	
9/29/2020 12:00	15.2	15	23	W (264)	71	0	
9/29/2020 13:00	16.1	15	25	SW (221)	69	0	
9/29/2020 14:00	16.3	16	28	SW (218)	61	0	
9/29/2020 15:00	16	18	28	SW (220)	56	0	
9/29/2020 16:00	15.8	15	24	SW (222)	59	0	
9/29/2020 17:00	15.3	10	20	SW (234)	64	0	

Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
9/29/2020 18:00	14.5	8	14	S (177)	66	0	
9/29/2020 19:00	13.4	7	13	SSW (204)	71	0	
9/29/2020 20:00	12.7	7	11	S (170)	76	0	
9/29/2020 21:00	11.7	8	11	SSW (198)	79	0	
9/29/2020 22:00	11.5	8	12	SSE (163)	81	0	
9/29/2020 23:00	10.5	9	16	WSW (243)	85	0	
9/30/2020 0:00	9.4	9	13	WSW (250)	91	0	
9/30/2020 1:00	8.8	6	9	SSE (166)	100	0	
9/30/2020 2:00	8.7	6	10	SW (226)	100	0	
9/30/2020 3:00	8	6	9	SW (220)	100	0	
9/30/2020 4:00	8.3	8	13	SSE (165)	100	0	
9/30/2020 5:00	8.2	8	11	S (171)	100	0	
9/30/2020 6:00	8.8	11	17	SSW (202)	100	0	
9/30/2020 7:00	9.3	11	21	SW (228)	100	0.6	
9/30/2020 8:00	9.6	11	22	SSW (199)	100	0.2	0.8
9/30/2020 9:00	10.8	15	27	SW (224)	100	0	
9/30/2020 10:00	12.5	19	32	SSW (208)	100	0	
9/30/2020 11:00	13.3	21	40	SW (216)	88	0	
9/30/2020 12:00	13.7	21	39	WSW (240)	79	0.2	
9/30/2020 13:00	12.6	15	33	SSE (161)	86	0.2	
9/30/2020 14:00	12.8	15	32	SW (228)	88	0.4	
9/30/2020 15:00	14.8	25	40	SW (224)	74	0	
9/30/2020 16:00	16	24	40	SW (221)	64	0	
9/30/2020 17:00	15.8	19	31	SW (229)	65	0	
9/30/2020 18:00	14.1	19	37	WSW (240)	76	0.6	
9/30/2020 19:00	13	18	31	SW (231)	70	0	
9/30/2020 20:00	12.3	14	22	SW (233)	79	0	
9/30/2020 21:00	11.2	15	23	WSW (247)	90	0.2	
9/30/2020 22:00	10.6	16	30	W (259)	90	0	
9/30/2020 23:00	10	15	28	WSW (254)	100	0	
10/1/2020 0:00	9.5	14	21	WSW (253)	100	0	
10/1/2020 1:00	9.2	13	20	WSW (242)	100	0.2	
10/1/2020 2:00	8.7	11	18	WSW (250)	100	0	
10/1/2020 3:00	8	9	15	SW (223)	100	0	
10/1/2020 4:00	7.4	9	14	SW (232)	100	0	
10/1/2020 5:00	7.1	10	15	SSW (211)	100	0	
10/1/2020 6:00	7.1	11	16	WSW (237)	100	0	
10/1/2020 7:00	7.2	11	17	WSW (240)	100	0	
10/1/2020 8:00	8	9	16	SW (228)	100	0	1.8
10/1/2020 9:00	9.8	13	20	W (264)	100	0	
10/1/2020 10:00	12.2	12	20	SW (236)	95	0	
10/1/2020 11:00	13.7	16	26	WSW (252)	73	0	
10/1/2020 12:00	14.2	13	24	W (270)	64	0	
10/1/2020 13:00	12.9	15	43	NW (308)	78	0	
10/1/2020 14:00	13.4	9	21	WSW (252)	68	0	
10/1/2020 15:00	12.7	14	33	WNW (300)	82	1.8	
10/1/2020 16:00	12.8	6	13	SW (215)	79	0	
10/1/2020 17:00	11	10	34	W (266)	87	1.6	
10/1/2020 18:00	9.5	8	20	S (172)	95	0	
10/1/2020 19:00	9.1	4	11	WSW (242)	100	0	
10/1/2020 20:00	8.3	5	9	SW (229)	100	0	
10/1/2020 21:00	8.1	7	11	SW (217)	100	0	
10/1/2020 22:00	7.9	7	11	SW (214)	100	0	
10/1/2020 23:00	7.7	8	12	SW (225)	100	0	
10/2/2020 0:00	8.6	10	15	NW (326)	100	0.8	
10/2/2020 1:00	9.4	17	29	NW (306)	100	1.4	
10/2/2020 2:00	9.1	22	37	WNW (303)	100	4	
10/2/2020 3:00	8.8	20	30	W (271)	100	2.4	
10/2/2020 4:00	8.4	20	32	W (266)	100	0.2	
10/2/2020 5:00	8.2	18	31	W (259)	100	0	
10/2/2020 6:00	8.2	18	28	WNW (285)	100	0	
10/2/2020 7:00	7.8	16	26	WSW (244)	100	0	
10/2/2020 8:00	7.9	16	27	WSW (244)	100	0	12.2
10/2/2020 9:00	8.5	16	30	WNW (297)	100	0.2	
10/2/2020 10:00	8.7	11	27	NNE (31)	100	1	
10/2/2020 11:00	9.4	6	12	NNW (331)	100	0.4	
10/2/2020 12:00	10.3	12	19	WNW (299)	100	0.2	
10/2/2020 13:00	9.8	20	31	NW (320)	100	0.2	
10/2/2020 14:00	9.2	20	31	NW (326)	100	0.4	
10/2/2020 15:00	8.9	17	29	NNW (338)	100	0.8	

Notes:

[1] Intervals with unavailable meteorological data were not included in noise monitoring analysis.

ATTACHMENT C



Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

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09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

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Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

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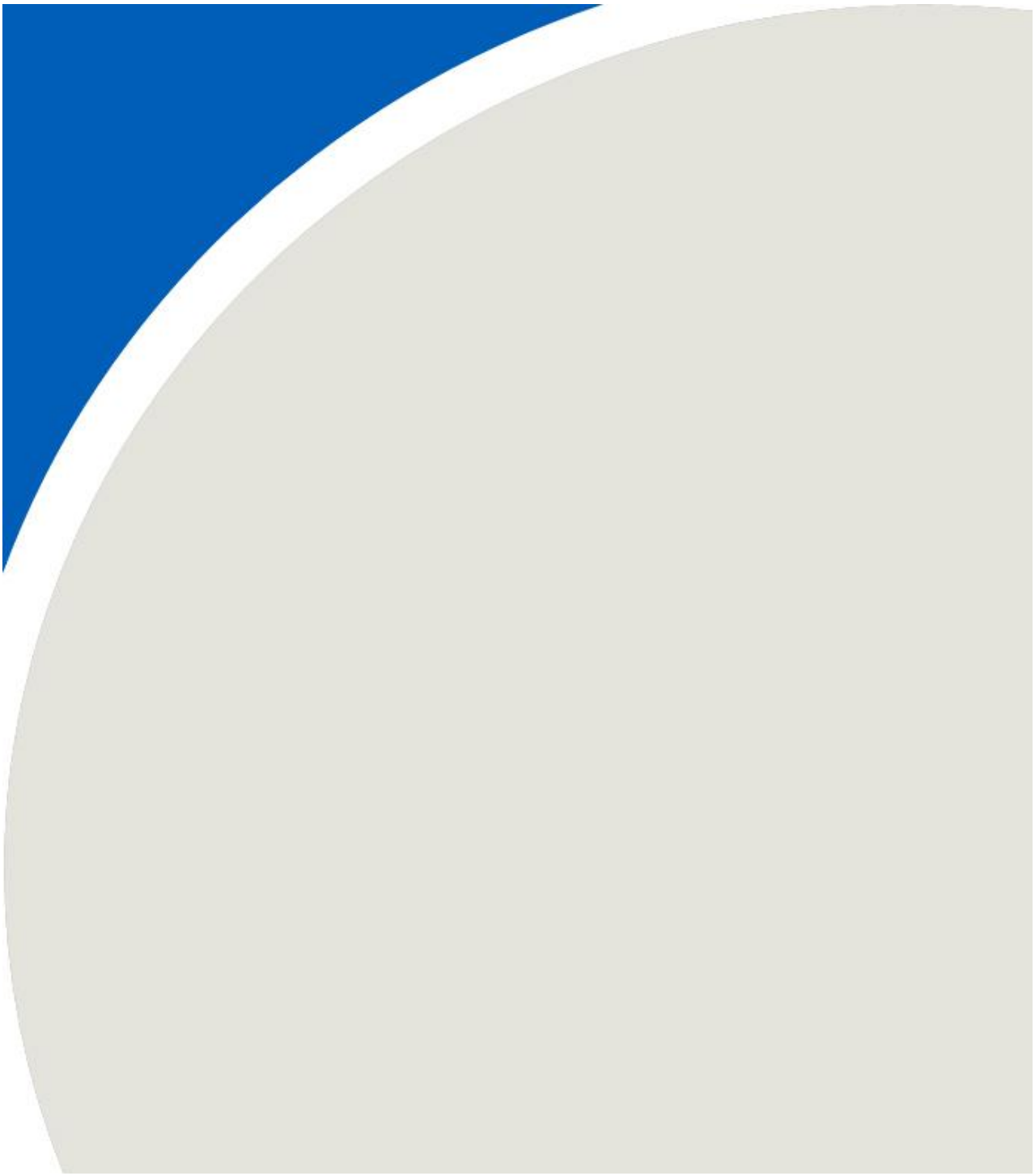
Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2

Q4



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February 25, 2021

Ms. Angela McLachlan
Environmental Compliance Manager
Waste Management of Canada Corporation
Twin Creeks Environmental Centre
5768 Nauvoo Road (Watford)
Warwick Township, County of Lambton N0M 2S0
E: amclachl@wm.com

Re: Fourth Quarter 2020 Noise Monitoring Report
Twin Creeks Environmental Centre – Watford, ON
RWDI Project #2001313-4000

Dear Ms. McLachlan,

Waste Management of Canada Corporation has retained RWDI to conduct the Fourth Quarter acoustic survey for 2020 at the Twin Creeks Environmental Centre (TCEC). This survey is required under Condition 13.10 of the Amended Environmental Compliance Approval, Number A032203, dated December 13, 2011. The *Environmental Noise Monitoring Program for the Twin Creeks Landfill* (NMP), prepared by Aercoustics Engineering Limited, dated November 21, 2007, provides the scope for this condition, and is summarized as:

- Recording sound levels at four on-site monitors for a minimum of a one-month period per Quarter; and
- Analyzing data to identify periods of time when noise levels exceed the prescribed limits.

SAMPLING

Noise monitoring was conducted at four monitoring locations around the perimeter of the site. The monitoring locations, identified as M1 through M4, were selected as indicated in the NMP. The monitoring locations are described in **Table 1** and are shown in **Figure 1**.

Table 1: Description of Noise Monitoring Locations

ID	Monitoring Locations	Non-TCEC Influences on Acoustic Environment
M1	Outside of west berm, along Nauvoo Road, 100 m north of TCEC entrance	Road traffic noise from Nauvoo Road and Highway 402.
M2	Outside of east berm, approximately 200 m from Zion Line	Limited influence from traffic on Zion Line and greenhouse business to the east.
M3	Off Confederation Line	Snowmobile / ATV trail noise, businesses to the south and west, limited influence from road traffic, and dog park to southeast.
M4	South of the woodlot, off Nauvoo Road	Snowmobile / ATV trail noise, limited influence from traffic on Nauvoo Road.

BEST MANAGED COMPANIES Platinum member

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Microphone locations met the requirements of the NMP. The NMP describes the required height of the monitors to be "the top of the [berm]". Monitors M1 and M2 were located on the side of berms, with the microphone heights approximately equal to the height of the top of the berm. These locations therefore met the NMP requirement. Both M3 and M4 were located at ground level, with the microphone approximately three metres above ground height. There were no berms relevant to M3 and M4, and therefore the NMP condition was also satisfied at these locations.

Each noise monitoring location was equipped with a Larson Davis Model 831C Precision Integrating Sound Level Meter. The sound level meters were each fitted with a Larson Davis PRM2103 preamplifier and PCB Piezotronics model 377B02 1/2" microphone. Each microphone was equipped with a wind screen and bird spikes. Meters were configured to record L_{EQ}, L_{MIN}, and L_{MAX} values at hourly intervals. All measurements were conducted in compliance with requirements outlined in Publication NPC-103 from the Ministry of the Environment, Conservation, and Parks.

As discussed in the NMP and in NPC-103, monitoring at the site must be performed under suitable weather conditions. Four parameters – temperature, wind speed, relative humidity, and precipitation – were recorded by an on-site meteorological station. Data from monitoring intervals where these parameters met acceptable limits were included in the analysis. Graphs showing the measured values, with exclusions indicated, are included in **Attachment A**. Acceptable limits are shown in **Table 2**. Weather data for the monitoring period is provided in **Attachment B**.

Table 2: Acceptable Weather Conditions

Parameter	Limit	Justification
Temperature	Minimum -20°C	Equipment limitation
Wind Speed	Maximum 18 km/h	As specified in NMP
Relative Humidity	Maximum 95%	Equipment limitation
Precipitation	No precipitation	As specified in NMP

SOUND LEVEL LIMITS

Sound level limits for the monitoring locations around the TCEC were established in the NMP. The NMP specifies daytime sound level limits individually for each monitoring location at each stage of landfilling operation. The current landfilling stage as described in the NMP is "Phase 4 @ 250 m". The associated sound level limits are shown in **Table 3**.

Table 3: Phase 4 @ 250 Metres Sound Level Limits

Monitor	Limit (dBA)
M1	63
M2	65
M3	55
M4	55

The landfill guideline sound level limit at sensitive receptors is 55 dBA for daytime operations. The sound level requirements for each monitoring location presented in the NMP were developed to ensure that the limit of 55 dBA is met at the receptors. The sound level requirements at the location of the sound level meters were calculated by distance adjustment of the 55 dBA limit at the receptors.

Landfilling occurred solely during daytime hours for the 2020 Fourth Quarter noise monitoring period. Evening and nighttime impacts were therefore not assessed in this report. Landfilling activities present during daytime were evaluated against the daytime sound level limits shown in **Table 3**.

ANALYSIS & RESULTS

To evaluate compliance for the TCEC at each monitoring location, the maximum $L_{EQ,\ 1\text{-}hr}$ value and the average of the $L_{EQ,\ 1\text{-}hr}$ values, during acceptable weather conditions, were assessed against the noise limit provided in the NMP. The maximum $L_{EQ,\ 1\text{-}hr}$ measure was selected to represent the worst-case impact in the direction of each monitor. The average L_{EQ} measure was selected to represent the average impact in the direction of each monitor.

The measured $L_{EQ,\ 1\text{-}hr}$ quantity includes noise from both landfilling activities and the background environment. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was below the limit, the noise from landfilling activities was therefore also below the limit. In cases where the measured $L_{EQ,\ 1\text{-}hr}$ quantity was above the limit, additional evaluation was necessary to identify dominant noise sources.

At location M1, measured sound levels included background noise from Nauvoo Road, Highway 402, and other local roads. Most of the non-landfilling noise was estimated to be due to Nauvoo Road traffic. To characterize the magnitude of this noise, traffic count and classification studies were conducted for Nauvoo Road during the 2019 Third Quarter. The traffic analysis during these monitoring programs yielded one week of traffic data, and from this information typical hourly sound levels from traffic noise for each day of the week were calculated. All traffic noise sound level calculations were completed through implementation of the Ontario Road Noise Analysis Method for Environment and Transportation (ORNAMENT) algorithms. Note that the speed limit for Nauvoo Road is 80 km/h; however, observations indicate that a vehicle speed of 100 km/h is more representative. Summarized hourly traffic data and ORNAMENT calculations are shown in **Attachment C**.

Noise due solely to landfilling operations was determined by subtraction of typical hourly traffic noise contributions from the hourly measured $L_{EQ,\ 1\text{-}hr}$ values. The resulting sound levels were compared to the prescribed limits. In cases where the average hourly sound level from traffic exceeded the actual measured sound level, it was assumed that the sound level from landfilling operations was significantly (10+ dB) below the average traffic sound level. In these instances, the landfilling was considered compliant with the limits. Results of the calculations for the worst-case hour during landfilling operations are shown in **Table 4**.

Table 4: Example Calculations for Worst Case Hour while Landfilling

Location	Maximum Measured $L_{EQ, 1\text{-}hr}$ (dBA)	Background Sound Contribution (dBA) [1]	Source of Background Sound Value	Landfilling Contribution (dBA)
M1	70	67	ORNAMENT Modelling	67
M2	58	N/A	Conservatively Assumed to be negligible	58
M3	57	N/A	Conservatively Assumed to be negligible	57
M4	56	N/A	Conservatively Assumed to be negligible	56

Notes: [1] Background Sound Contribution represents the calculated background sound level due to traffic during the hour which the maximum sound level was recorded.

Sound levels at all monitoring locations were influenced by traffic noise to some degree, but only traffic noise impact at M1 was considered significant enough to warrant any further evaluation. All other monitoring locations were estimated to be negligibly affected by traffic noise.

The maximum landfilling contribution $L_{EQ, 1\text{-}hr}$ value at each monitor was compared to the applicable limits in **Table 5**, which presents a summary of the measurement and calculation results.

Table 5: Comparison of Measurement Results with Requirements

Locations	Monitoring Intervals		Number of Acceptable Intervals [1,2]	Maximum $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Average Measured $L_{EQ, 1\text{-}hr}$ (dBA) [2]	Sound Level Limits (dBA)
	Number of Intervals [1]	Meets Requirements of NMP?				
M1	744	Yes	426	67[3]	64[3]	63
M2	744	Yes	426	58	52	65
M3	744	Yes	425	57	50	55
M4	744	Yes	426	56	50	55

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions and the TCEC is operating as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.

A summary of the compliance statistics during the monitoring period is presented in **Table 6**.

Table 6: Summary of Compliance Statistics

Location	Number of Events Exceeding Limit [3]				Number of Acceptable Intervals with TCEC Open [1,2]	Number of Acceptable Intervals with TCEC Closed [1,2]	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Open	Percentage of Time Noise Levels > 3dB Above Limit when TCEC is Closed
	TCEC Operating [4]		TCEC Closed [4]					
	<= 3 dB above Limit	> 3 dB above Limit	<= 3 dB above Limit	> 3 dB above Limit				
M1	60	23	57	69	120	306	19.2%	22.5%
M2	0	0	0	0	120	306	0.0%	0.0%
M3	4	0	6	7	119	306	0.0%	2.3%
M4	1	0	0	0	120	306	0.0%	0.0%

Notes: [1] Each interval is defined as 1 hour.
[2] Intervals with acceptable weather conditions as described in **Table 1**.
[3] Based on $L_{EQ, 1\text{-}hr}$ for acceptable intervals, corrected by subtracting results of hourly traffic modelling where applicable.
[4] Intervals occurring during TCEC operating hours, weekday (7am to 5pm) and Saturdays (8am to 11am).

At monitor M1, measured hourly sound levels exceeded the hourly limit in 83 instances during operational hours, 23 of which were greater than 3 dB above the limit. During non-operational hours, 126 hourly intervals in excess of the limit were recorded, 69 of which were greater than 3 dB above the limit.

At monitor M2, measured hourly sound levels did not exceed the hourly limit during operational or non-operational hours.

At monitor M3, measured hourly sound levels exceeded the hourly limit in four instances during operational hours, none of which were greater than 3 dB above the limit. During non-operational hours, 13 hourly intervals in excess of the limit were recorded, 4 of which were greater than 3 dB above the limit.

At monitor M4, measured hourly sound levels exceeded the hourly limit in one instance during operational hours, which was not greater than 3 dB above the limit. During non-operational hours, zero hourly intervals in excess of the limit were recorded.

Sound level increases of 3 dB or less are imperceptible, or insignificant, as indicated in the Noise Guidelines for Landfill Sites (Oct 1998, Draft). Therefore, all intervals that exceeded by 3 dB or less above the limit were an imperceptible difference from the limit.

DISCUSSION & CONCLUSIONS

The averages of the measured $L_{EQ,\ 1\text{-}hr}$ levels when the TCEC was operational did not exceed the prescribed sound level limits as specified in the NMP at all locations except for M1. This is shown in **Table 5**. On-site observations by RWDI staff show that this is due to landfill construction activity occurring to the north.

The measured $L_{EQ,\ 1\text{-}hr}$ values during the Fourth Quarter did not exceed the prescribed sound level limits by 3 dB at M2, M3, or M4 during any hourly interval while the TCEC was operational.

At monitor M1, measured hourly sound levels exceeded the hourly limit by more than 3 dB during 23 hourly intervals. RWDI has reviewed the operations logs and completed investigation into the elevated sound levels at M1. The operations logs do not indicate that any abnormal activities were occurring during these events. An RWDI site visit on February 4, 2021 uncovered that Phase 4 construction activities to the north of the current landfilling and maintenance activities near M1 are the likely cause of exceedances at this monitor. Furthermore, during periods of low traffic activity on Nauvoo Road, no construction, and no maintenance at the maintenance shop, sound levels at M1 did not exceed the sound level limit of 55 dBA. Therefore, exceedances at M1 were not observed to be caused by landfilling.

In summary, no hourly intervals at M2, M3, or M4 were perceptibly above the limits during TCEC operating hours in the Fourth Quarter. Further investigation of the perceptible exceedances at M1 by RWDI personnel during a site visit revealed that landfilling was not the cause of exceedances at this monitor during the Fourth Quarter.

CLOSING

Please feel free to contact us with any questions or comments that you may have with respect to this submission.

Yours very truly,

RWDI





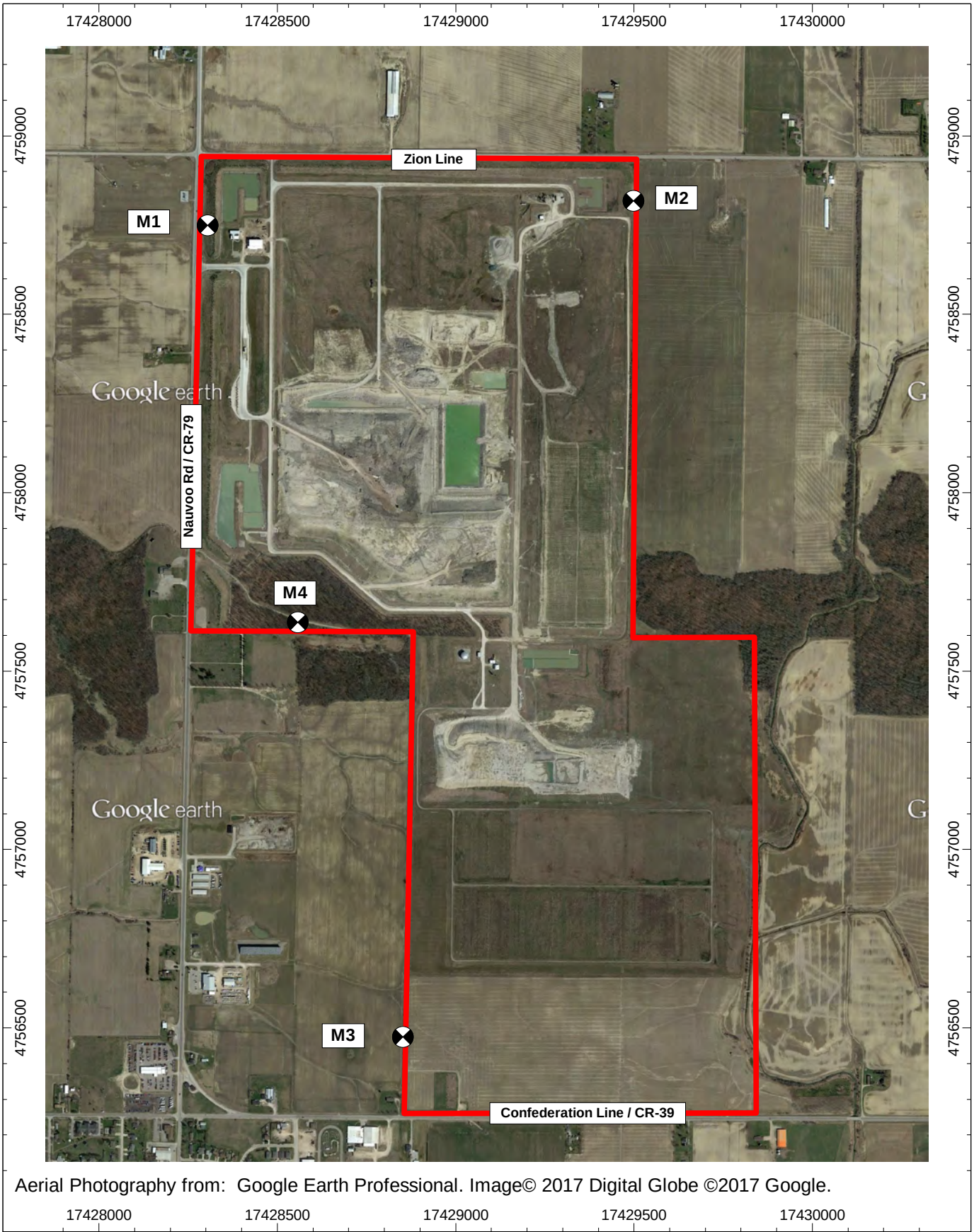
Bryce Dawson, B.Sc., E.P., P.M.P.
Senior Project Manager | Principal

Brad Bergeron, A.Sc.T., d.E.T.
Senior Consultant | Principal

BRD/BCB/jo
Attach.

FIGURES





Aerial Photography from: Google Earth Professional. Image© 2017 Digital Globe ©2017 Google.

Noise Monitoring Station Locations

Twin Creeks Environmental Centre, Watford, Ontario

True North

Project #2001313

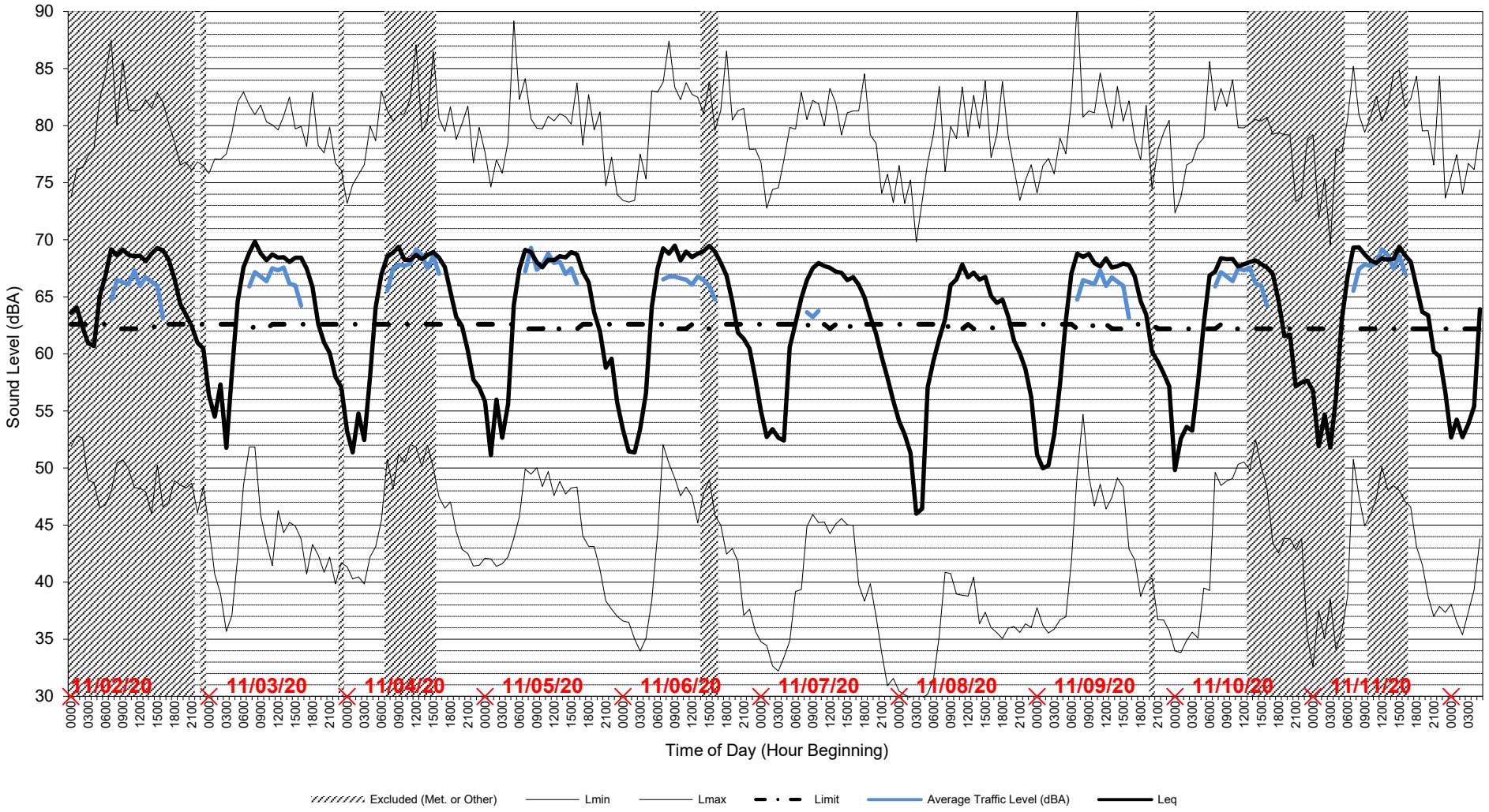
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Date:	Nov. 26, 2019

ATTACHMENT A



Long-Term Measurement Results

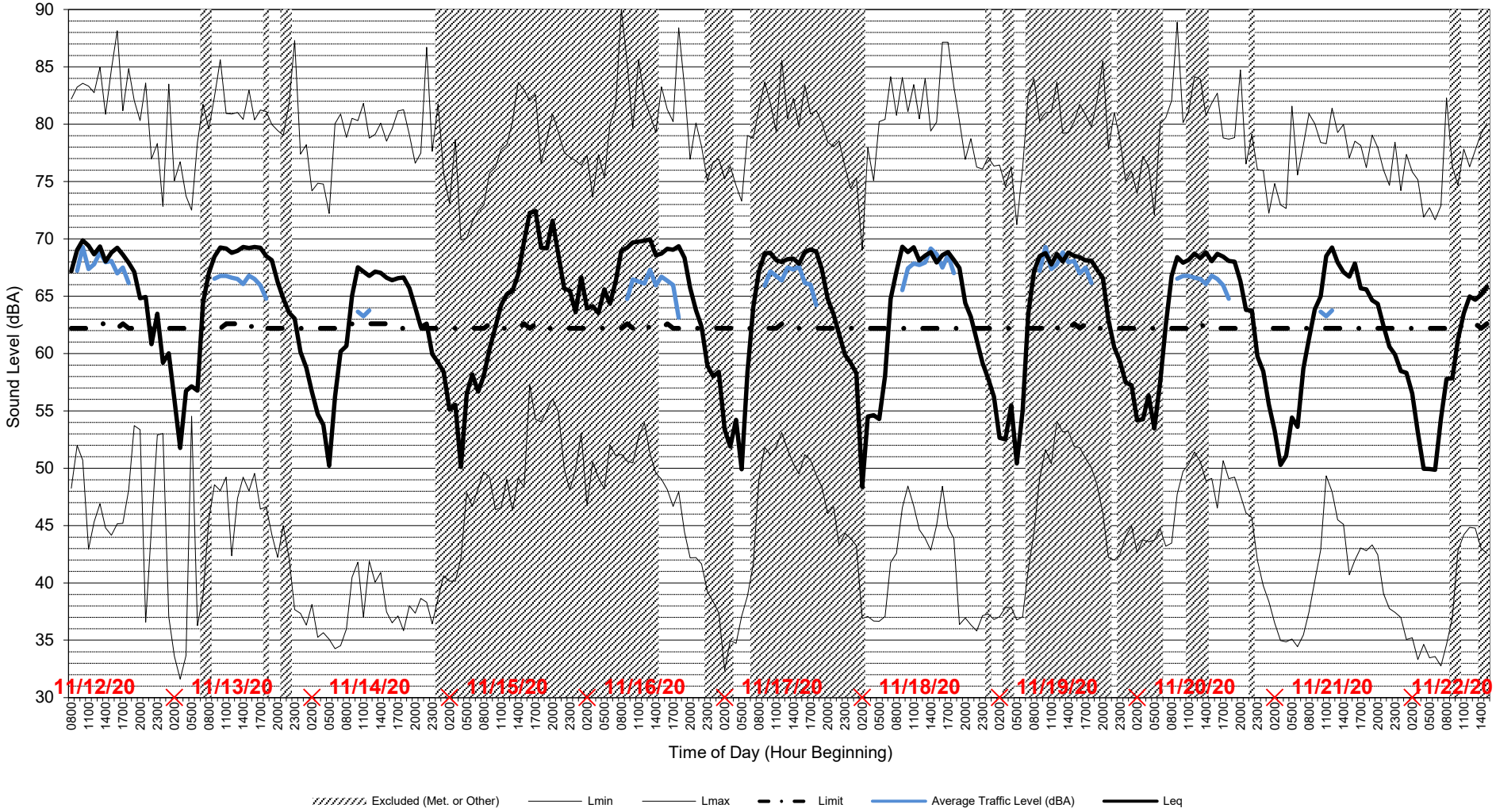
M1



Measured Ambient Sound Levels From Nov 2,2020 to Nov 12,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M1a** Date: Jan 28, 2021	RWDI

Long-Term Measurement Results

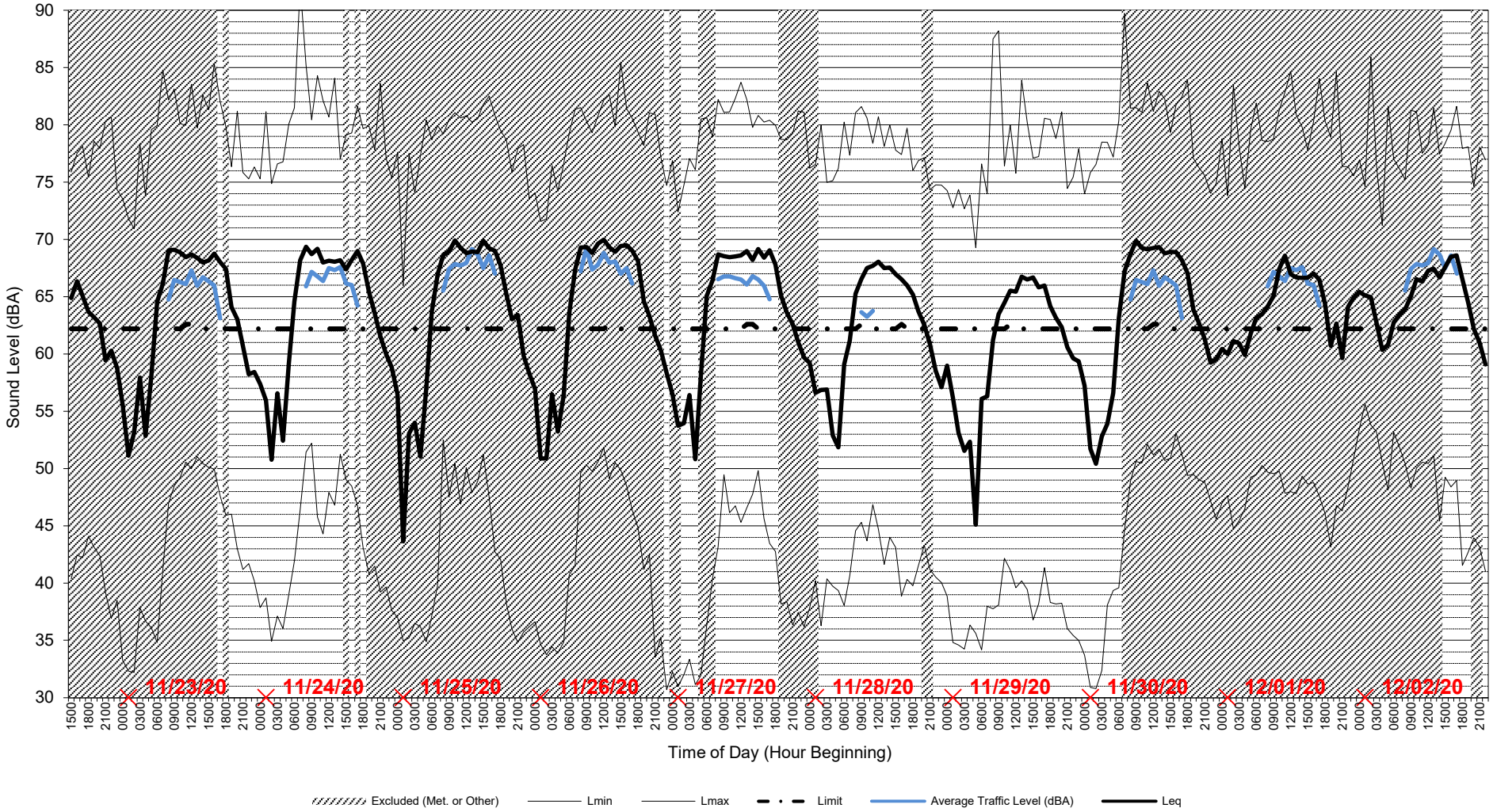
M1



Measured Ambient Sound Levels From Nov 12,2020 to Nov 22,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M1b** Date: Jan 28, 2021	RWDI

Long-Term Measurement Results

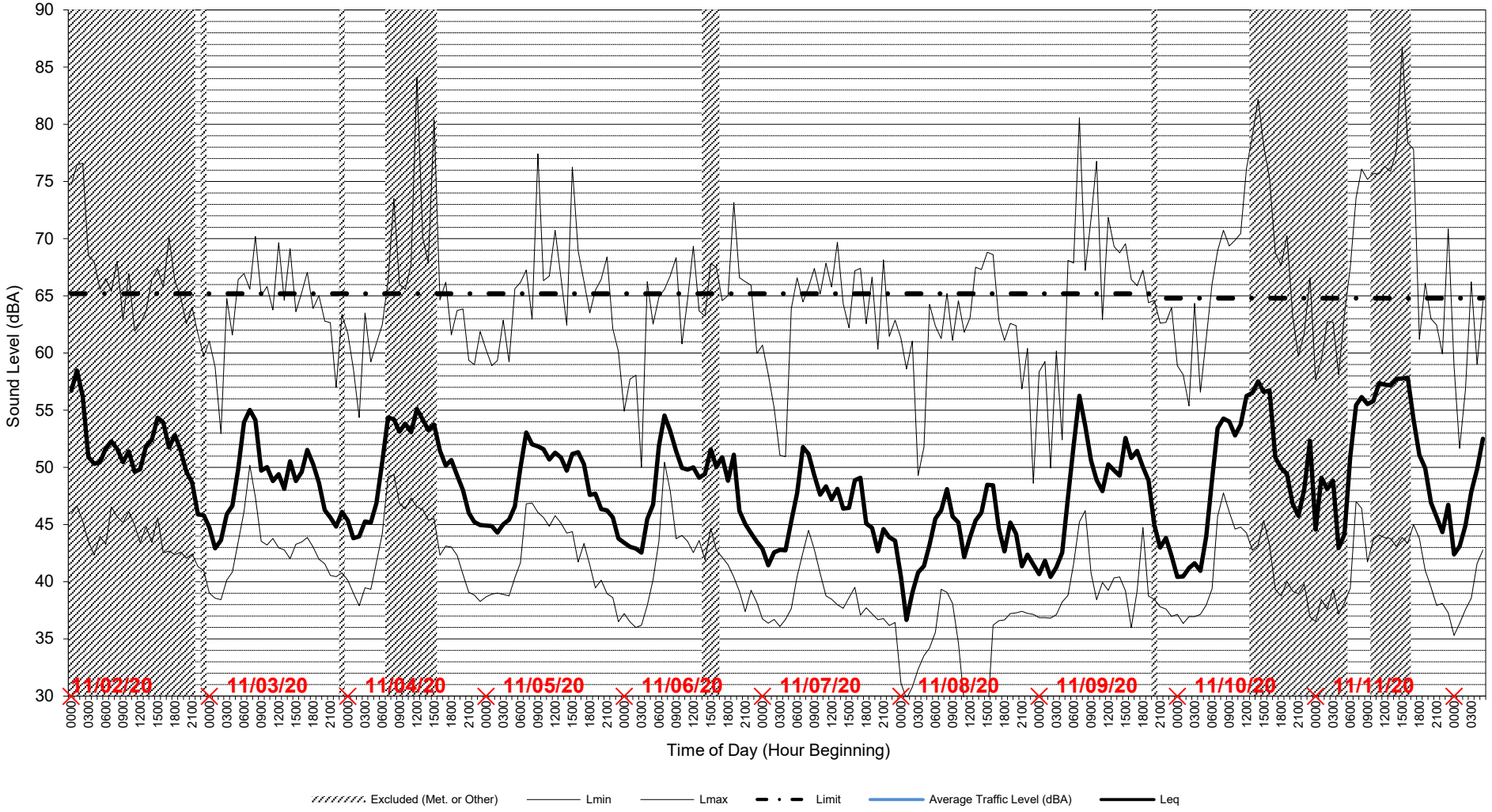
M1



Measured Ambient Sound Levels From Nov 22,2020 to Dec 2,2020 Twin Creeks Environmental Centre — Project # 2001313	Figure No. **M1c** Date: Jan 28, 2021	RWDI

Long-Term Measurement Results

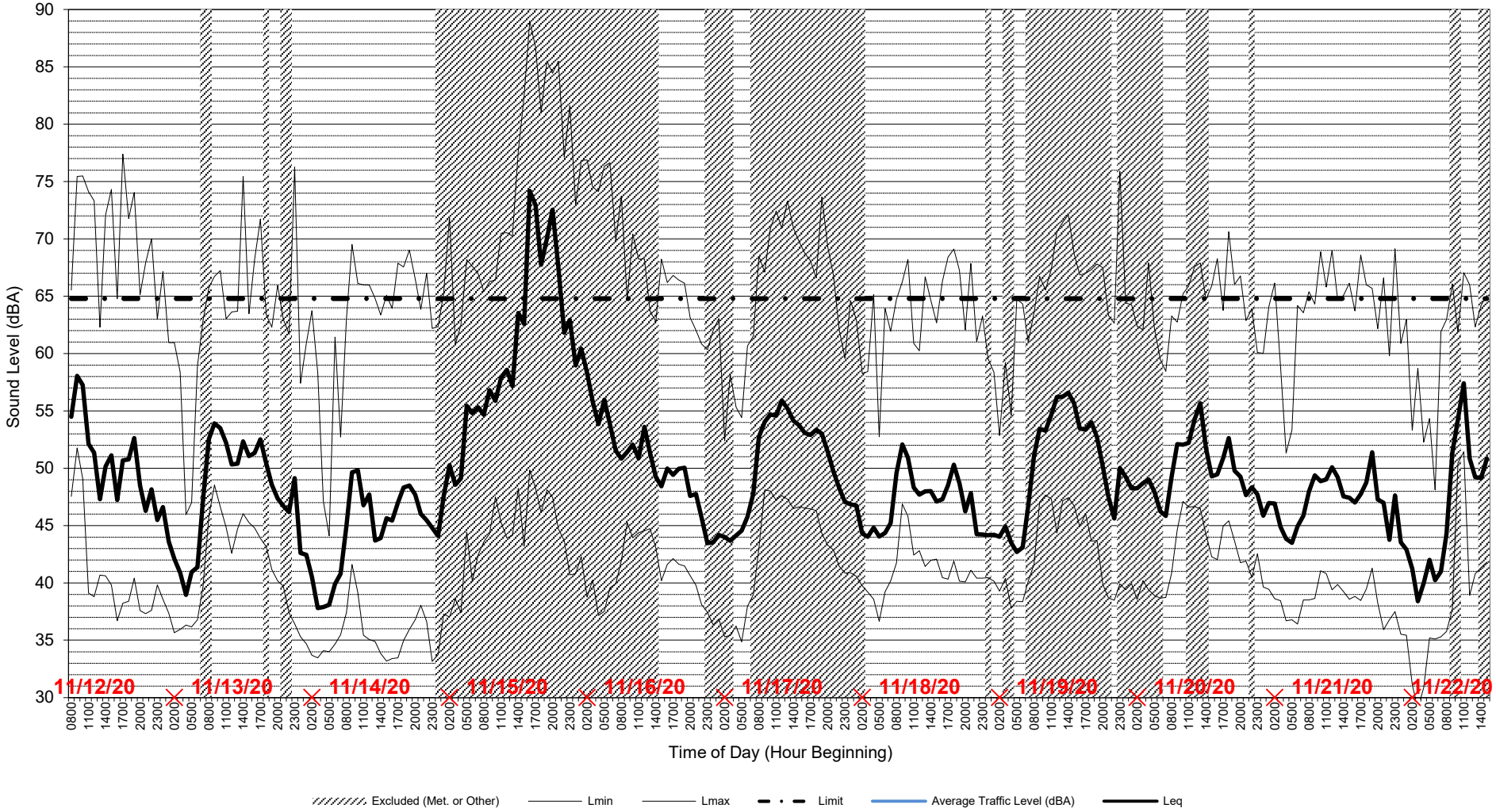
M2



Measured Ambient Sound Levels From Nov 2,2020 to Nov 12,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2a** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

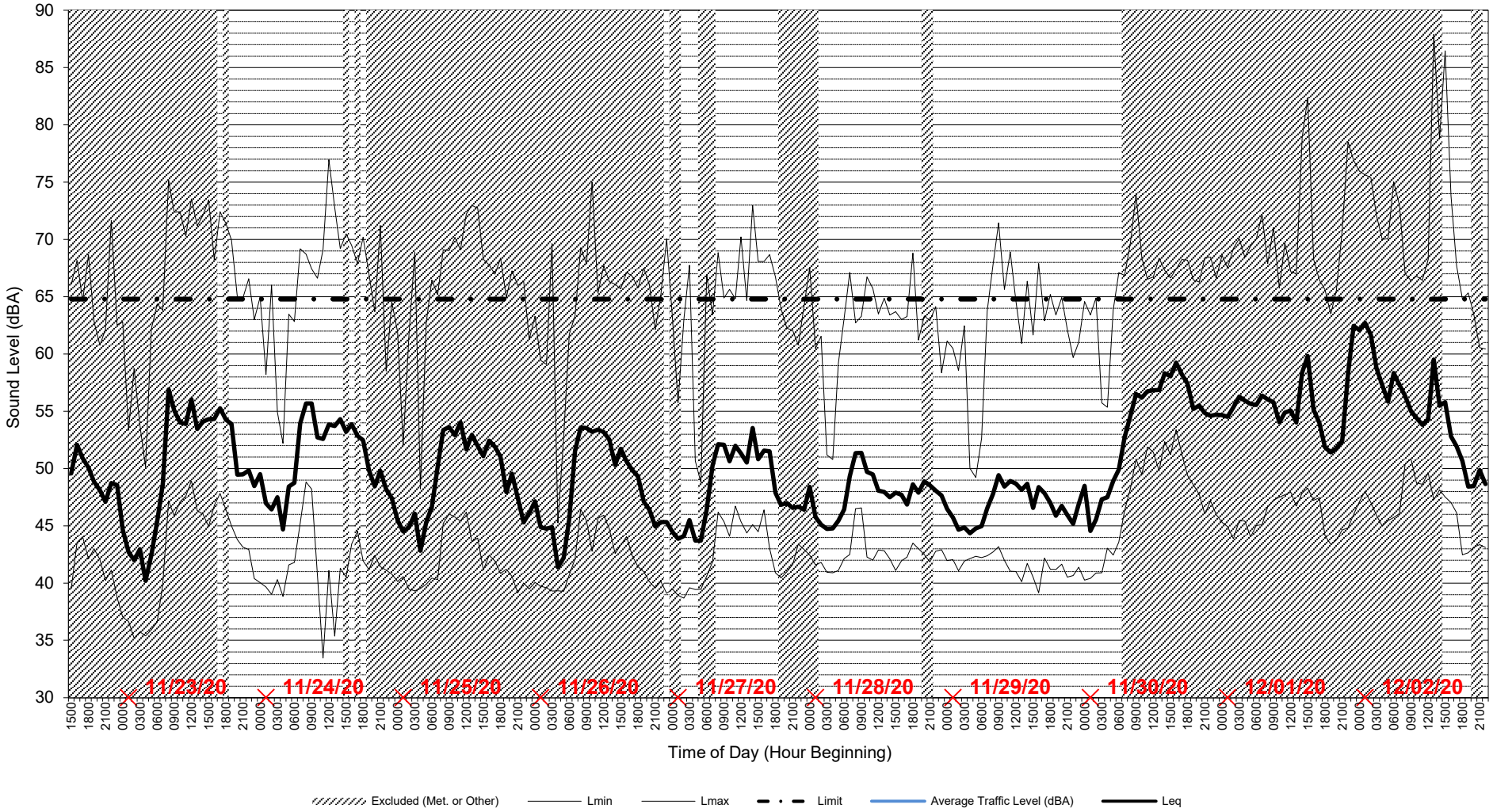
M2



Measured Ambient Sound Levels From Nov 12,2020 to Nov 22,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2b** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

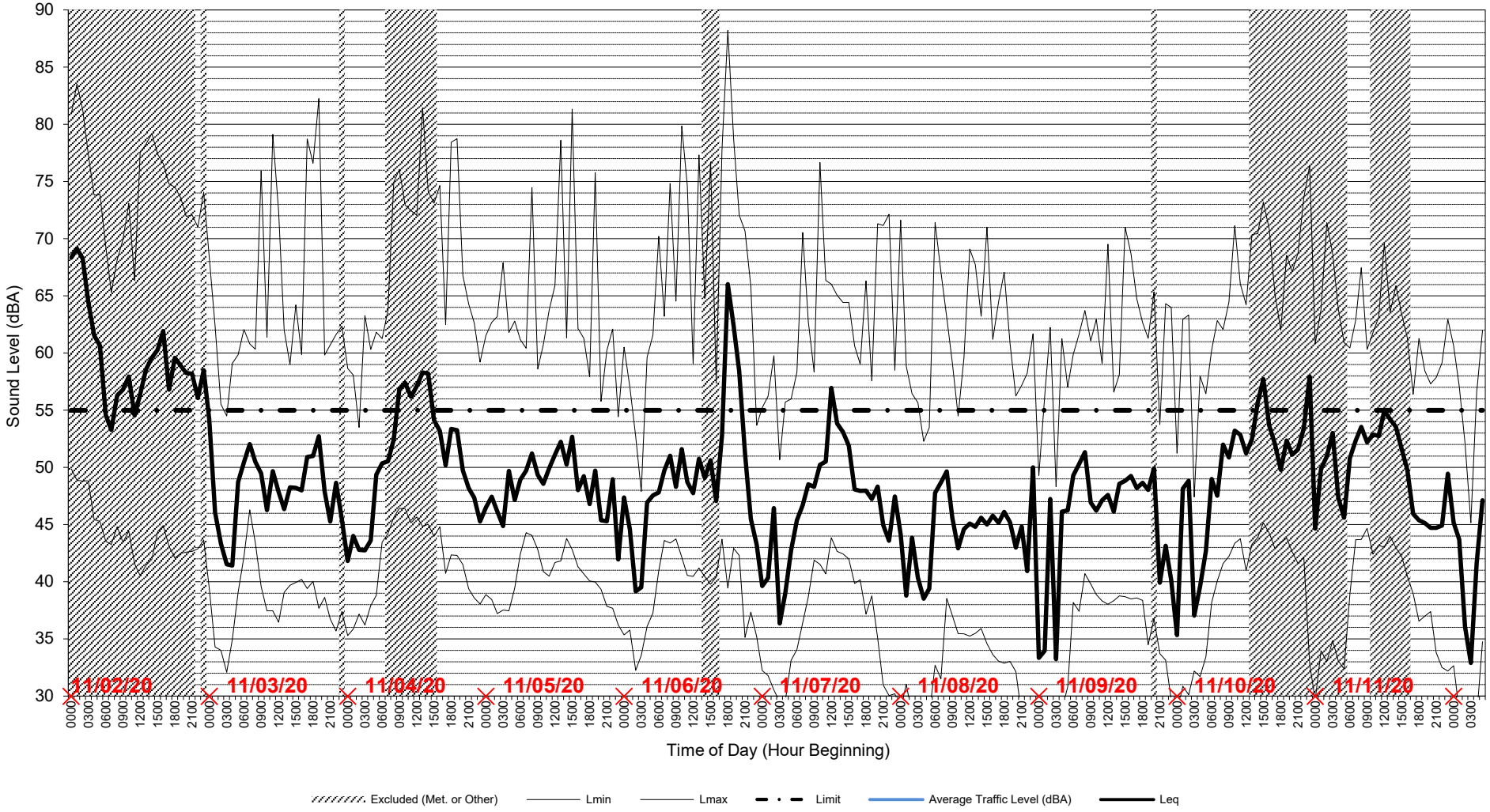
M2



Measured Ambient Sound Levels From Nov 22,2020 to Dec 2,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M2c** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

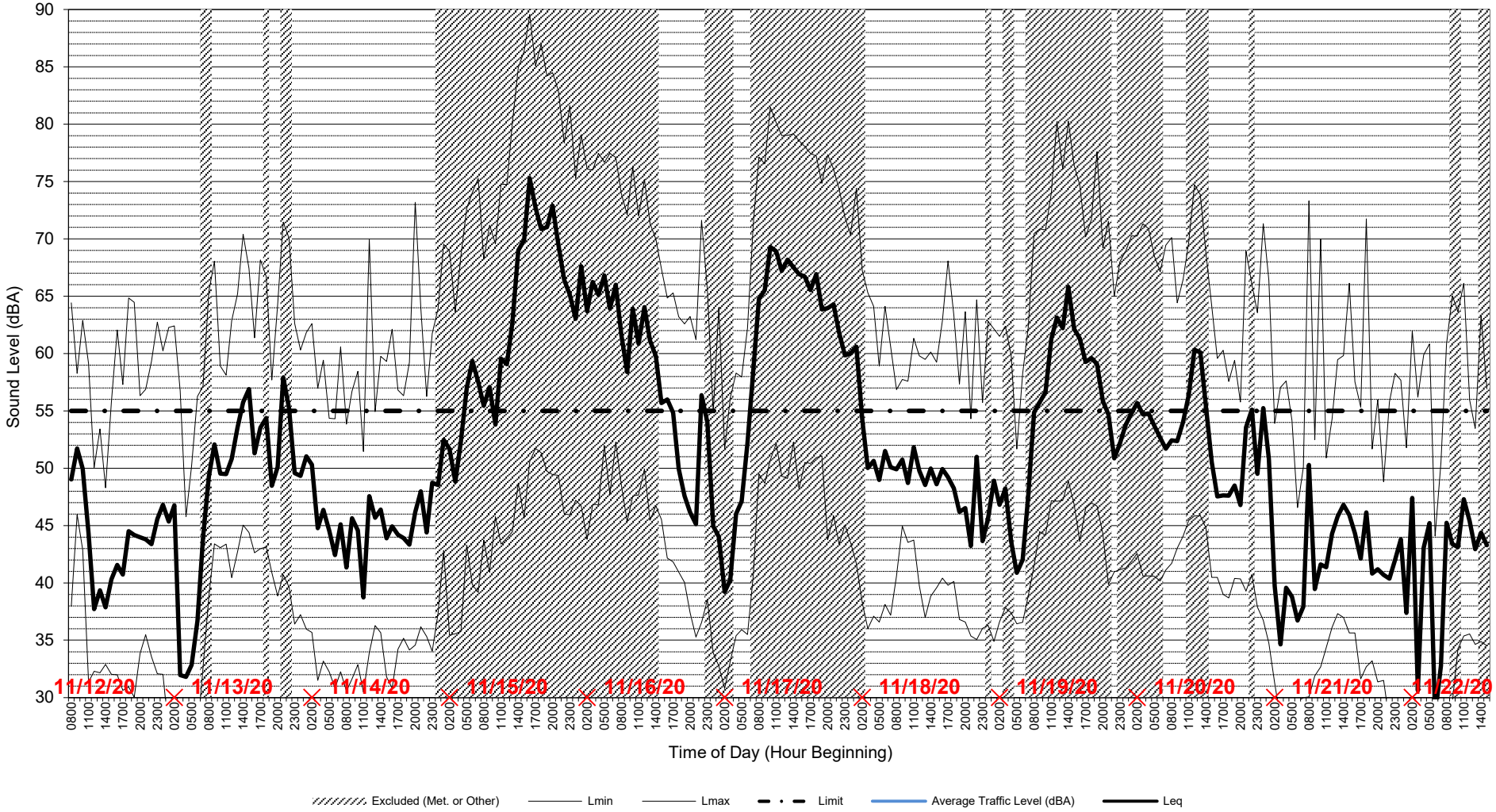
M3



Measured Ambient Sound Levels From Nov 2,2020 to Nov 12,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3a** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

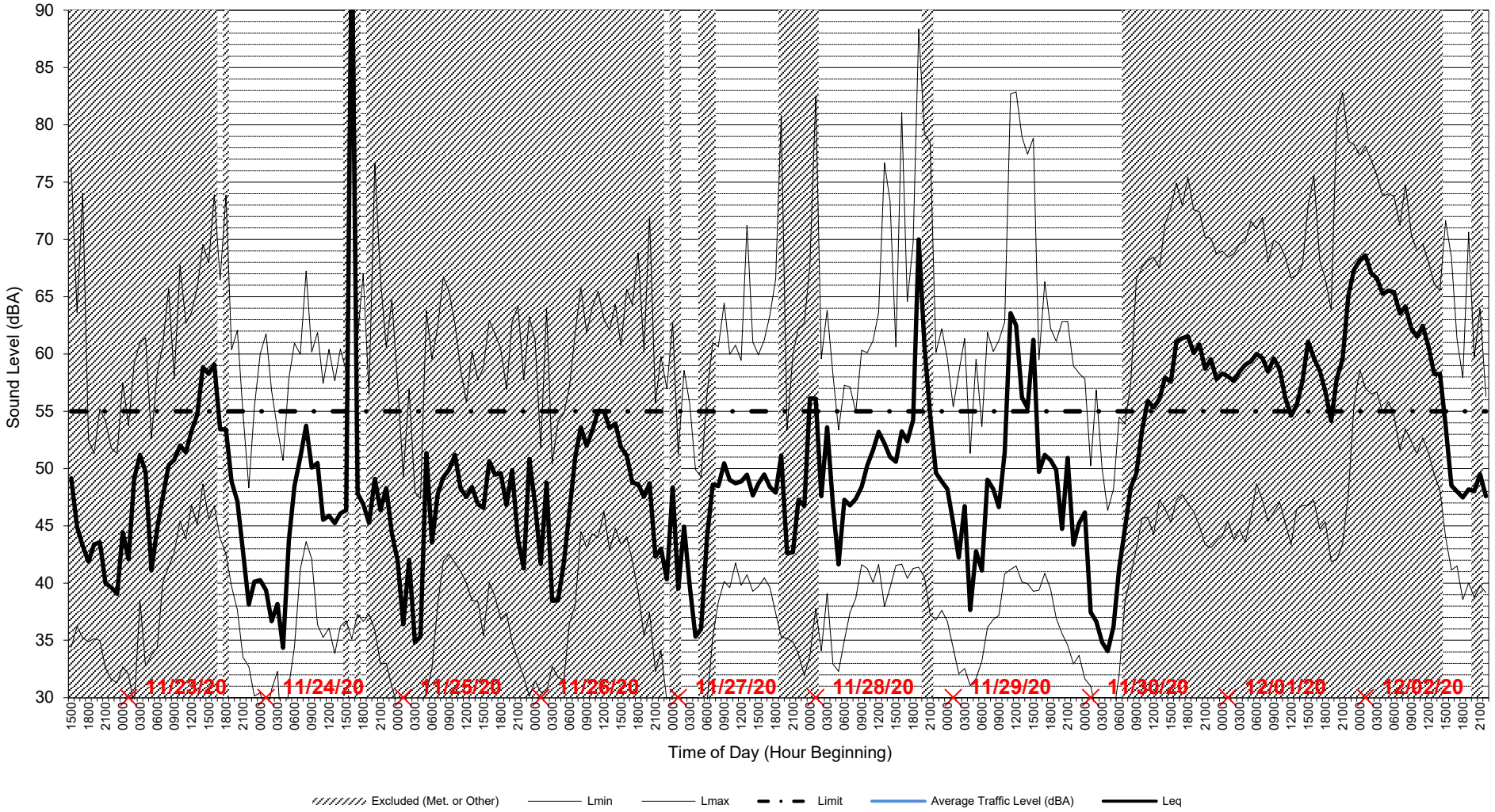
M3



Measured Ambient Sound Levels From Nov 12,2020 to Nov 22,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3b** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

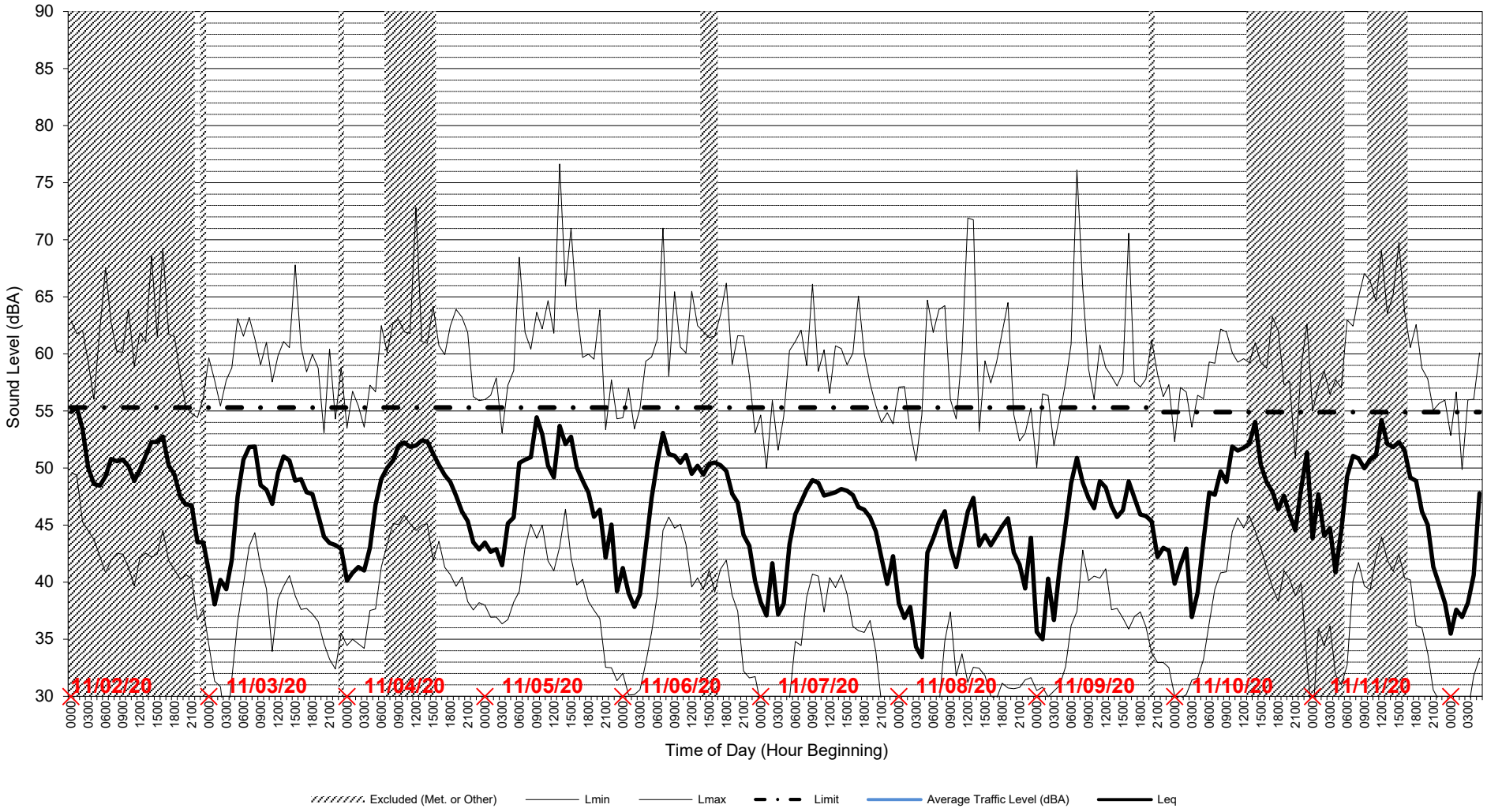
M3



Measured Ambient Sound Levels From Nov 22,2020 to Dec 2,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M3c** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

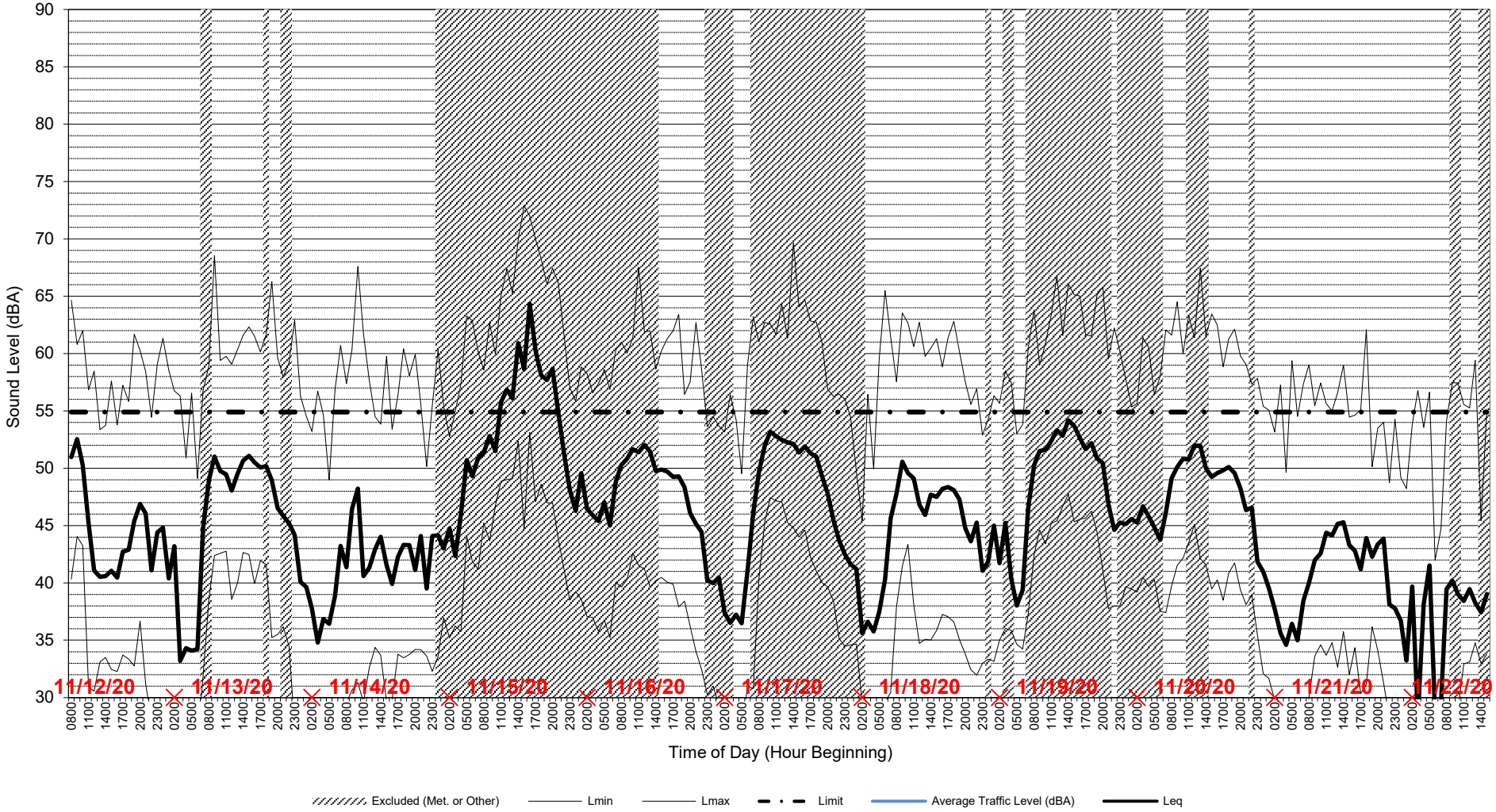
M4



Measured Ambient Sound Levels From Nov 2,2020 to Nov 12,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4a** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

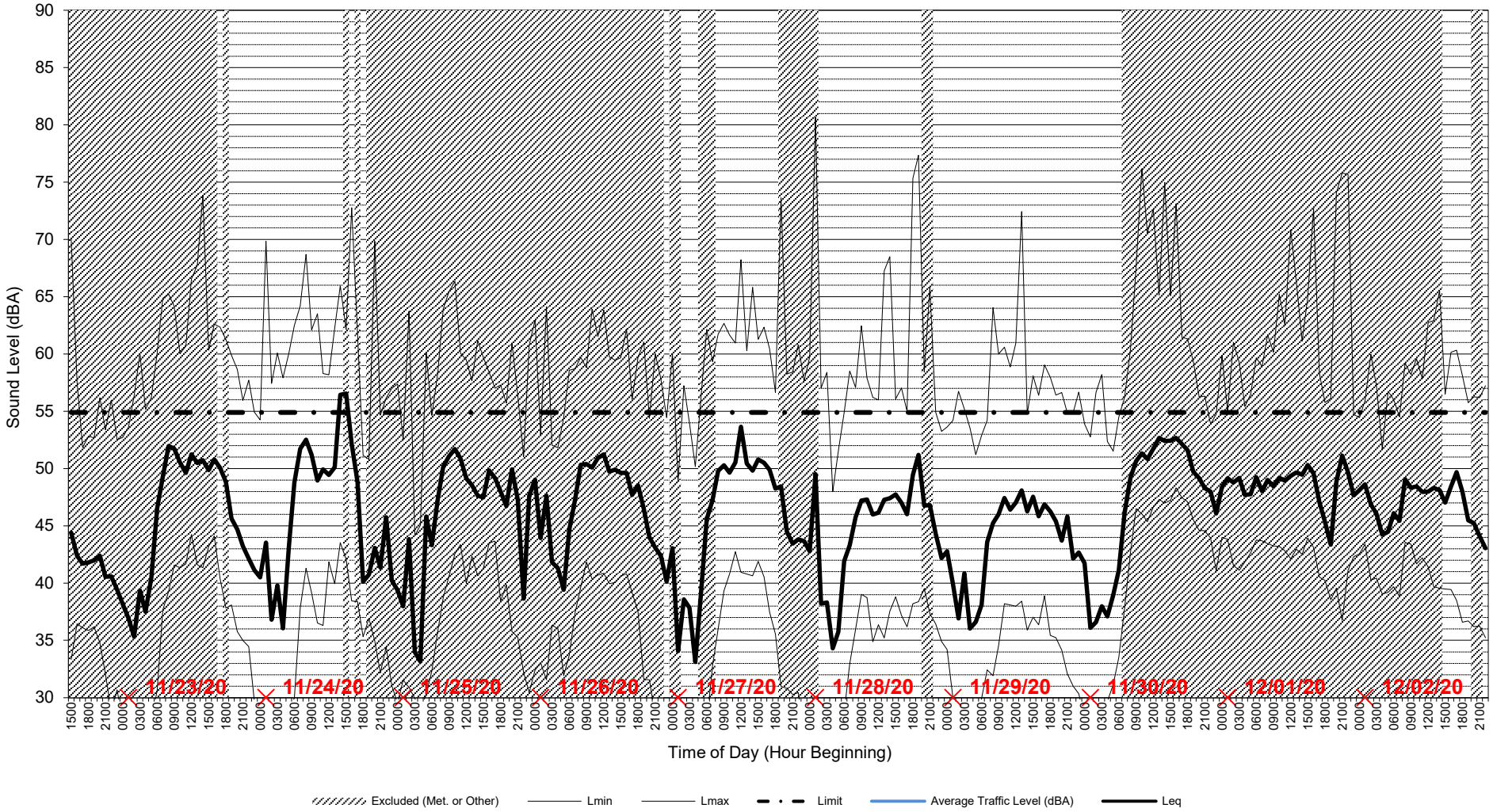
M4



Measured Ambient Sound Levels From Nov 12,2020 to Nov 22,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4b** Date: Jan 24, 2021	RWDI

Long-Term Measurement Results

M4



Measured Ambient Sound Levels From Nov 22,2020 to Dec 2,2020 Twin Creeks Environmental Centre Project # 2001313	Figure No. **M4c** Date: Jan 24, 2021	RWDI

ATTACHMENT B



Twin Creeks Environmental Centre							
DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/1/2020 1:00	9.2	13	20	WSW (242)	100	0.2	
10/1/2020 2:00	8.7	11	18	WSW (250)	100	0	
10/1/2020 3:00	8	9	15	SW (223)	100	0	
10/1/2020 4:00	7.4	9	14	SW (232)	100	0	
10/1/2020 5:00	7.1	10	15	SSW (211)	100	0	
10/1/2020 6:00	7.1	11	16	WSW (237)	100	0	
10/1/2020 7:00	7.2	11	17	WSW (240)	100	0	
10/1/2020 8:00	8	9	16	SW (228)	100	0	1.8
10/1/2020 9:00	9.8	13	20	W (264)	100	0	
10/1/2020 10:00	12.2	12	20	SW (236)	95	0	
10/1/2020 11:00	13.7	16	26	WSW (252)	73	0	
10/1/2020 12:00	14.2	13	24	W (270)	64	0	
10/1/2020 13:00	12.9	15	43	NW (308)	78	0	
10/1/2020 14:00	13.4	9	21	WSW (252)	68	0	
10/1/2020 15:00	12.7	14	33	WNW (300)	82	1.8	
10/1/2020 16:00	12.8	6	13	SW (215)	79	0	
10/1/2020 17:00	11	10	34	W (266)	87	1.6	
10/1/2020 18:00	9.5	8	20	S (172)	95	0	
10/1/2020 19:00	9.1	4	11	WSW (242)	100	0	
10/1/2020 20:00	8.3	5	9	SW (229)	100	0	
10/1/2020 21:00	8.1	7	11	SW (217)	100	0	
10/1/2020 22:00	7.9	7	11	SW (214)	100	0	
10/1/2020 23:00	7.7	8	12	SW (225)	100	0	
10/2/2020 0:00	8.6	10	15	NW (326)	100	0.8	
10/2/2020 1:00	9.4	17	29	NW (306)	100	1.4	
10/2/2020 2:00	9.1	22	37	WNW (303)	100	4	
10/2/2020 3:00	8.8	20	30	W (271)	100	2.4	
10/2/2020 4:00	8.4	20	32	W (266)	100	0.2	
10/2/2020 5:00	8.2	18	31	W (259)	100	0	
10/2/2020 6:00	8.2	18	28	WNW (285)	100	0	
10/2/2020 7:00	7.8	16	26	WSW (244)	100	0	
10/2/2020 8:00	7.9	16	27	WSW (244)	100	0	12.2
10/2/2020 9:00	8.5	16	30	WNW (297)	100	0.2	
10/2/2020 10:00	8.7	11	27	NNE (31)	100	1	
10/2/2020 11:00	9.4	6	12	NNW (331)	100	0.4	
10/2/2020 12:00	10.3	12	19	WNW (299)	100	0.2	
10/2/2020 13:00	9.8	20	31	NW (320)	100	0.2	
10/2/2020 14:00	9.2	20	31	NW (326)	100	0.4	
10/2/2020 15:00	8.9	17	29	NNW (338)	100	0.8	
10/2/2020 16:00	9.6	15	25	N (354)	100	0	
10/2/2020 17:00	9.6	12	24	N (2)	88	0	
10/2/2020 18:00	9.1	9	22	NNW (342)	91	0	
10/2/2020 19:00	8.3	3	7	W (276)	93	0	
10/2/2020 20:00	7.4	9	18	N (11)	97	0	
10/2/2020 21:00	5.8	4	11	SE (132)	100	0	
10/2/2020 22:00	5.9	6	9	ESE (123)	100	0	
10/2/2020 23:00	5.9	4	9	SE (126)	100	0	
10/3/2020 0:00	5.8	4	6	SE (129)	100	0	
10/3/2020 1:00	5.8	6	9	SE (128)	100	0	
10/3/2020 2:00	6.2	8	11	SE (131)	100	0	
10/3/2020 3:00	6.2	8	11	SSE (162)	100	0	
10/3/2020 4:00	6.2	10	15	SE (139)	100	0	
10/3/2020 5:00	5.8	9	15	SSE (161)	100	0	
10/3/2020 6:00	4.9	6	10	ESE (115)	100	0	
10/3/2020 7:00	4	6	8	ESE (107)	100	0	
10/3/2020 8:00	5.1	6	9	ESE (118)	100	0	3.2
10/3/2020 9:00	7.4	9	12	SSE (154)	96	0	
10/3/2020 10:00	9.6	10	20	W (262)	73	0	
10/3/2020 11:00	10.1	11	18	SSW (212)	73	0	
10/3/2020 12:00	10.2	10	19	WSW (249)	66	0	
10/3/2020 13:00	10.6	10	22	WSW (240)	63	0	
10/3/2020 14:00	10.5	10	19	W (270)	60	0	
10/3/2020 15:00	10.3	11	20	W (266)	63	0	
10/3/2020 16:00	10.4	12	17	W (267)	59	0	
10/3/2020 17:00	10.2	9	15	NW (304)	65	0	
10/3/2020 18:00	9.9	5	11	NW (311)	70	0	
10/3/2020 19:00	9.1	2	4	NNW (348)	77	0	
10/3/2020 20:00	8.4	2	4	ENE (65)	83	0	
10/3/2020 21:00	8.1	4	7	SE (131)	89	0	
10/3/2020 22:00	8.1	6	9	ESE (123)	86	0	
10/3/2020 23:00	8	7	10	ESE (122)	85	0	
10/4/2020 0:00	7.9	8	11	ESE (121)	85	0	
10/4/2020 1:00	7.9	7	11	E (100)	86	0	
10/4/2020 2:00	7.8	11	15	ESE (103)	88	0	
10/4/2020 3:00	7.6	13	18	E (94)	91	0.8	
10/4/2020 4:00	7.3	10	15	E (86)	100	0.4	
10/4/2020 5:00	7.3	15	21	E (94)	100	0.6	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/4/2020 6:00	7.2	16	21	E (101)	100	1	
10/4/2020 7:00	6.9	17	22	ESE (120)	100	0.2	
10/4/2020 8:00	7.1	18	24	ESE (114)	100	0	3
10/4/2020 9:00	7.9	15	22	ESE (118)	100	0	
10/4/2020 10:00	8.8	11	18	SE (127)	100	0	
10/4/2020 11:00	9.9	6	11	S (189)	100	0.4	
10/4/2020 12:00	10.4	9	15	SW (222)	100	0.4	
10/4/2020 13:00	10.6	11	18	WSW (241)	100	0.6	
10/4/2020 14:00	10.2	13	21	SW (234)	100	1.2	
10/4/2020 15:00	10	11	17	WSW (239)	100	0.4	
10/4/2020 16:00	10	10	17	SW (234)	100	0.2	
10/4/2020 17:00	9.9	7	13	W (263)	100	0.2	
10/4/2020 18:00	9.7	6	9	NW (311)	100	0	
10/4/2020 19:00	8.7	5	8	SW (225)	100	0	
10/4/2020 20:00	7.7	9	14	SW (236)	100	0	
10/4/2020 21:00	9	8	14	WNW (288)	100	0	
10/4/2020 22:00	9.5	11	19	NW (310)	100	1.4	
10/4/2020 23:00	9.7	12	22	NW (316)	100	0	
10/5/2020 0:00	9.2	11	18	NW (317)	100	0	
10/5/2020 1:00	8.7	9	15	WNW (288)	100	0.2	
10/5/2020 2:00	8.1	8	13	W (277)	100	0	
10/5/2020 3:00	8.2	9	18	WNW (283)	100	0.2	
10/5/2020 4:00	8.6	6	9	WSW (255)	100	0.4	
10/5/2020 5:00	8.4	5	9	WNW (296)	100	0.2	
10/5/2020 6:00	8.4	4	6	ENE (74)	100	0	
10/5/2020 7:00	7.4	5	10	SW (219)	100	0	
10/5/2020 8:00	6.8	6	9	W (274)	100	0	5.8
10/5/2020 9:00	8.6	4	8	SW (220)	100	0	
10/5/2020 10:00	9.7	6	13	WSW (247)	100	0	
10/5/2020 11:00	10.1	8	14	WSW (247)	100	0	
10/5/2020 12:00	11.2	10	16	SW (218)	96	0	
10/5/2020 13:00	11.8	10	16	W (270)	84	0	
10/5/2020 14:00	13	8	17	SW (221)	69	0	
10/5/2020 15:00	13.8	12	21	WSW (244)	61	0	
10/5/2020 16:00	13.9	14	25	SW (221)	58	0	
10/5/2020 17:00	13.4	15	30	SSW (208)	57	0	
10/5/2020 18:00	12.3	11	22	S (181)	63	0	
10/5/2020 19:00	10.7	14	20	S (171)	76	0	
10/5/2020 20:00	9.3	16	22	SSE (161)	77	0	
10/5/2020 21:00	8.5	15	22	S (175)	80	0	
10/5/2020 22:00	8.1	12	17	SSE (163)	82	0	
10/5/2020 23:00	8.6	15	24	SSW (205)	82	0	
10/6/2020 0:00	9.3	16	26	S (171)	76	0	
10/6/2020 1:00	9.2	14	25	SSW (197)	78	0	
10/6/2020 2:00	8.8	11	18	SSW (196)	82	0	
10/6/2020 3:00	8.8	15	21	SSE (166)	82	0	
10/6/2020 4:00	8.9	14	22	SSW (212)	83	0	
10/6/2020 5:00	9.1	14	25	S (181)	84	0	
10/6/2020 6:00	9.6	16	26	SSW (193)	83	0	
10/6/2020 7:00	10.3	16	30	S (189)	79	0	
10/6/2020 8:00	10.7	17	29	SSW (197)	74	0	0
10/6/2020 9:00	11.9	19	32	S (188)	72	0	
10/6/2020 10:00	13.3	22	35	SW (224)	64	0	
10/6/2020 11:00	14.3	18	31	SSW (197)	61	0	
10/6/2020 12:00	15.4	18	31	SW (217)	59	0	
10/6/2020 13:00	16.5	22	34	SSW (213)	55	0	
10/6/2020 14:00	18	21	36	SW (228)	52	0	
10/6/2020 15:00	18.2	24	39	SW (215)	52	0	
10/6/2020 16:00	17.8	24	37	S (189)	53	0	
10/6/2020 17:00	17.8	20	32	SW (216)	54	0	
10/6/2020 18:00	17.2	13	22	SW (217)	62	0	
10/6/2020 19:00	15.3	8	11	SSW (198)	66	0	
10/6/2020 20:00	14.6	9	13	SW (217)	71	0	
10/6/2020 21:00	14.3	9	16	SW (216)	72	0	
10/6/2020 22:00	14.1	11	16	SW (230)	74	0	
10/6/2020 23:00	14.5	13	20	SW (232)	74	0	
10/7/2020 0:00	14.5	11	20	SW (228)	72	0	
10/7/2020 1:00	14.7	11	20	SW (215)	72	0	
10/7/2020 2:00	14	12	19	SSW (208)	77	0	
10/7/2020 3:00	13.1	12	21	SW (222)	81	0	
10/7/2020 4:00	12.9	12	21	SSW (194)	85	0	
10/7/2020 5:00	13.1	12	20	SSW (206)	87	0.6	
10/7/2020 6:00	13	13	23	SW (230)	92	0.6	
10/7/2020 7:00	12.9	13	21	SW (230)	92	0	
10/7/2020 8:00	13.1	15	23	SW (230)	86	0.4	1.6
10/7/2020 9:00	14.2	18	29	W (262)	82	0	
10/7/2020 10:00	16.4	23	40	NW (312)	74	0	
10/7/2020 11:00	17	32	47	NW (318)	65	0	
10/7/2020 12:00	16.8	30	43	NW (306)	67	0	
10/7/2020 13:00	17.4	33	49	WNW (298)	61	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/7/2020 14:00	18	34	51	WNW (292)	50	0	
10/7/2020 15:00	17.9	28	43	NW (313)	52	0	
10/7/2020 16:00	16.8	21	35	N (349)	58	0	
10/7/2020 17:00	15.9	23	39	N (354)	68	0	
10/7/2020 18:00	14.2	13	24	N (354)	69	0	
10/7/2020 19:00	13	9	20	N (353)	79	0	
10/7/2020 20:00	12.4	8	17	NW (325)	79	0	
10/7/2020 21:00	12.3	13	23	NW (311)	74	0	
10/7/2020 22:00	11.6	14	24	WNW (301)	69	0	
10/7/2020 23:00	11	12	20	WNW (302)	74	0	
10/8/2020 0:00	10.3	10	16	NW (320)	77	0	
10/8/2020 1:00	9.6	9	15	W (276)	76	0	
10/8/2020 2:00	8.6	7	10	W (270)	81	0	
10/8/2020 3:00	7.5	7	9	WSW (257)	85	0	
10/8/2020 4:00	7.1	8	10	WSW (255)	85	0	
10/8/2020 5:00	6.9	8	10	SW (234)	88	0	
10/8/2020 6:00	5.9	8	11	SW (223)	100	0	
10/8/2020 7:00	6.5	5	8	SW (224)	100	0	
10/8/2020 8:00	6.8	6	12	WSW (237)	100	0	0
10/8/2020 9:00	9.6	6	11	WSW (254)	89	0	
10/8/2020 10:00	12.4	12	23	W (265)	71	0	
10/8/2020 11:00	14	14	27	W (271)	62	0	
10/8/2020 12:00	15.5	14	24	W (277)	56	0	
10/8/2020 13:00	16.4	13	23	W (264)	52	0	
10/8/2020 14:00	17.3	12	23	WSW (253)	48	0	
10/8/2020 15:00	17	12	23	SW (231)	51	0	
10/8/2020 16:00	18.1	14	28	WNW (288)	48	0	
10/8/2020 17:00	17.2	16	25	NNW (334)	52	0	
10/8/2020 18:00	15.3	9	20	NNW (342)	60	0	
10/8/2020 19:00	13	6	12	N (351)	76	0	
10/8/2020 20:00	10.6	6	9	NNE (25)	84	0	
10/8/2020 21:00	9.4	4	6	ENE (64)	90	0	
10/8/2020 22:00	9.1	5	7	NE (51)	90	0	
10/8/2020 23:00	8.6	5	7	NE (37)	91	0	
10/9/2020 0:00	7.5	6	8	NE (48)	100	0	
10/9/2020 1:00	7.3	5	7	NE (48)	100	0	
10/9/2020 2:00	6.7	7	11	ENE (64)	100	0	
10/9/2020 3:00	6.5	8	13	E (91)	100	0	
10/9/2020 4:00	5.8	8	11	E (100)	100	0	
10/9/2020 5:00	5.5	8	11	ESE (121)	100	0	
10/9/2020 6:00	5.8	10	12	ESE (108)	100	0	
10/9/2020 7:00	6.3	12	17	SE (132)	100	0	
10/9/2020 8:00	7.6	12	17	SE (125)	100	0	0
10/9/2020 9:00	9.8	16	21	ESE (116)	94	0	
10/9/2020 10:00	12.6	19	25	SE (135)	80	0	
10/9/2020 11:00	15.8	19	28	SSE (163)	78	0	
10/9/2020 12:00	18.3	16	29	SSE (167)	63	0	
10/9/2020 13:00	20.1	21	39	S (187)	47	0	
10/9/2020 14:00	21	20	34	SW (222)	43	0	
10/9/2020 15:00	21.4	19	33	SSE (164)	43	0	
10/9/2020 16:00	21.6	21	39	S (189)	45	0	
10/9/2020 17:00	20.9	21	36	S (186)	47	0	
10/9/2020 18:00	19.8	21	32	S (174)	53	0	
10/9/2020 19:00	18.3	21	29	S (175)	57	0	
10/9/2020 20:00	18.6	22	30	SSE (161)	57	0	
10/9/2020 21:00	18.7	19	31	S (171)	57	0	
10/9/2020 22:00	19.2	18	31	SSW (210)	54	0	
10/9/2020 23:00	19.1	19	32	SSW (198)	52	0	
10/10/2020 0:00	18.2	17	28	SSE (167)	55	0	
10/10/2020 1:00	17.8	18	30	SW (218)	58	0	
10/10/2020 2:00	17.3	15	23	SSW (206)	63	0	
10/10/2020 3:00	17.2	16	29	SW (226)	66	0	
10/10/2020 4:00	17.1	17	27	SW (227)	71	0	
10/10/2020 5:00	16.8	16	29	S (184)	75	0	
10/10/2020 6:00	16.6	16	26	SW (233)	79	0	
10/10/2020 7:00	16.7	17	30	SSW (208)	80	0	
10/10/2020 8:00	17	19	31	SW (224)	80	0	0
10/10/2020 9:00	18.2	22	41	SW (222)	79	0	
10/10/2020 10:00	19.5	25	38	SSW (203)	75	0	
10/10/2020 11:00	20.9	25	36	WSW (243)	72	0	
10/10/2020 12:00	21.7	24	36	WSW (239)	68	0	
10/10/2020 13:00	22	20	32	WSW (250)	68	0	
10/10/2020 14:00	22.2	18	30	W (263)	69	0	
10/10/2020 15:00	21.3	19	33	N (350)	78	0	
10/10/2020 16:00	16	23	35	NNW (339)	81	0	
10/10/2020 17:00	14.6	25	36	NNE (14)	73	0	
10/10/2020 18:00	14.1	23	35	N (9)	67	0	
10/10/2020 19:00	13.3	18	33	N (4)	73	0	
10/10/2020 20:00	12.2	15	26	N (1)	74	0	
10/10/2020 21:00	11.1	12	23	NNE (15)	76	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/10/2020 22:00	10	10	18	N (7)	82	0	
10/10/2020 23:00	9.1	7	13	NNE (33)	90	0	
10/11/2020 0:00	8.6	3	7	E (94)	100	0	
10/11/2020 1:00	8.2	4	6	ENE (69)	100	0	
10/11/2020 2:00	7	6	10	NE (40)	100	0	
10/11/2020 3:00	6.6	9	13	ENE (64)	100	0	
10/11/2020 4:00	7.3	10	14	NE (42)	100	0	
10/11/2020 5:00	6.7	9	17	NE (44)	100	0	
10/11/2020 6:00	6	12	17	ENE (62)	100	0	
10/11/2020 7:00	5.5	14	21	E (83)	100	0	
10/11/2020 8:00	6.5	16	24	E (98)	100	0	0
10/11/2020 9:00	8.3	20	28	E (90)	93	0	
10/11/2020 10:00	10.4	22	33	ENE (77)	77	0	
10/11/2020 11:00	12.3	19	29	E (92)	71	0	
10/11/2020 12:00	13.7	18	25	NE (48)	67	0	
10/11/2020 13:00	14.9	15	24	ENE (71)	63	0	
10/11/2020 14:00	15.7	17	28	E (96)	59	0	
10/11/2020 15:00	16.2	17	29	ENE (74)	55	0	
10/11/2020 16:00	15.7	18	27	ENE (66)	58	0	
10/11/2020 17:00	14.5	18	25	E (80)	61	0	
10/11/2020 18:00	12.4	14	24	ENE (70)	70	0	
10/11/2020 19:00	10.1	13	18	ENE (65)	77	0	
10/11/2020 20:00	9	12	17	ENE (69)	80	0	
10/11/2020 21:00	8.4	16	23	E (90)	81	0	
10/11/2020 22:00	8.1	15	22	ESE (102)	84	0	
10/11/2020 23:00	9.1	18	24	E (89)	83	0	
10/12/2020 0:00	9	17	22	E (93)	81	0	
10/12/2020 1:00	9.1	18	25	ESE (115)	80	0	
10/12/2020 2:00	9.2	20	28	ESE (104)	81	0	
10/12/2020 3:00	9.2	18	26	E (101)	83	0	
10/12/2020 4:00	9.5	19	27	ESE (108)	83	0	
10/12/2020 5:00	9.5	19	25	ESE (103)	84	0	
10/12/2020 6:00	9.4	19	26	ESE (102)	86	0	
10/12/2020 7:00	9.8	18	26	ESE (120)	86	0	
10/12/2020 8:00	10.8	23	33	ESE (117)	85	0	0
10/12/2020 9:00	13	23	31	ESE (106)	82	0	
10/12/2020 10:00	15.4	28	42	SE (137)	78	0	
10/12/2020 11:00	17	31	43	SSE (153)	77	0	
10/12/2020 12:00	17.7	30	41	SE (141)	77	0	
10/12/2020 13:00	18.8	33	46	SE (140)	75	0	
10/12/2020 14:00	19.2	35	47	SE (138)	72	0	
10/12/2020 15:00	19.5	33	47	SE (141)	71	0	
10/12/2020 16:00	19.3	32	45	SE (143)	73	0	
10/12/2020 17:00	19	32	45	SE (142)	74	0	
10/12/2020 18:00	18.4	32	43	SE (134)	77	0	
10/12/2020 19:00	18.5	33	46	SE (144)	77	0	
10/12/2020 20:00	18.6	36	48	SSE (151)	75	0	
10/12/2020 21:00	18	34	45	SE (146)	77	0	
10/12/2020 22:00	17.5	31	45	S (169)	90	1.6	
10/12/2020 23:00	15.7	15	34	NW (307)	100	11.8	
10/13/2020 0:00	13.3	22	38	NW (307)	100	2.8	
10/13/2020 1:00	12.2	28	43	WNW (302)	100	0.2	
10/13/2020 2:00	11.5	26	42	NW (306)	100	0	
10/13/2020 3:00	10.7	22	33	NW (308)	92	0	
10/13/2020 4:00	10.1	20	33	NW (310)	82	0	
10/13/2020 5:00	9.4	13	21	W (278)	87	0	
10/13/2020 6:00	8.3	9	16	W (265)	100	0	
10/13/2020 7:00	7.1	9	14	WSW (240)	100	0	
10/13/2020 8:00	7.4	11	19	W (273)	100	0	16.4
10/13/2020 9:00	9.2	12	20	W (272)	100	0	
10/13/2020 10:00	11.3	9	17	WNW (286)	97	0	
10/13/2020 11:00	13.2	10	16	SW (236)	72	0	
10/13/2020 12:00	15	10	18	SW (223)	55	0	
10/13/2020 13:00	16.3	11	21	WSW (251)	47	0	
10/13/2020 14:00	17	14	26	WSW (238)	44	0	
10/13/2020 15:00	17.7	16	29	SSW (211)	42	0	
10/13/2020 16:00	17.7	17	28	SW (233)	42	0	
10/13/2020 17:00	17	13	24	SSE (158)	41	0	
10/13/2020 18:00	15.5	11	19	SSW (202)	50	0	
10/13/2020 19:00	14.5	13	22	SSE (162)	53	0	
10/13/2020 20:00	13.6	16	27	WSW (242)	60	0	
10/13/2020 21:00	13.1	11	23	S (178)	65	0	
10/13/2020 22:00	13.7	13	20	S (175)	64	0	
10/13/2020 23:00	13.2	14	20	SW (225)	63	0	
10/14/2020 0:00	11.9	12	20	WSW (258)	66	0	
10/14/2020 1:00	10.9	11	18	W (266)	70	0	
10/14/2020 2:00	9.6	10	19	WNW (301)	74	0	
10/14/2020 3:00	10.3	10	17	NW (322)	82	0	
10/14/2020 4:00	9.7	8	13	NW (306)	84	0	
10/14/2020 5:00	8	3	7	SSW (194)	98	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/14/2020 6:00	7.5	7	12	SW (220)	100	0	
10/14/2020 7:00	6.6	7	12	SW (227)	100	0	
10/14/2020 8:00	6.8	7	13	S (189)	100	0	0
10/14/2020 9:00	9.2	8	15	SSW (198)	98	0	
10/14/2020 10:00	11.9	13	23	S (182)	73	0	
10/14/2020 11:00	13.3	14	24	WSW (243)	66	0	
10/14/2020 12:00	14.3	14	24	WSW (245)	56	0	
10/14/2020 13:00	15	19	31	SW (233)	52	0	
10/14/2020 14:00	14.9	18	30	S (177)	52	0	
10/14/2020 15:00	14.3	23	36	SSE (155)	54	0	
10/14/2020 16:00	14.4	20	34	SSE (154)	58	0	
10/14/2020 17:00	13.9	19	33	SSE (162)	64	0	
10/14/2020 18:00	13.3	19	29	SE (135)	69	0	
10/14/2020 19:00	12.9	26	38	SE (137)	70	0	
10/14/2020 20:00	13.9	29	40	SE (131)	68	0	
10/14/2020 21:00	15.4	29	43	SSE (164)	62	0	
10/14/2020 22:00	16.8	29	44	S (182)	57	0	
10/14/2020 23:00	17.5	30	51	SE (138)	56	0	
10/15/2020 0:00	17.5	25	41	S (191)	57	0	
10/15/2020 1:00	17.6	23	38	SW (224)	55	0	
10/15/2020 2:00	17	22	42	SW (222)	57	0	
10/15/2020 3:00	16.5	18	28	SW (226)	61	0	
10/15/2020 4:00	14.7	13	27	SSW (206)	82	0.4	
10/15/2020 5:00	13.8	11	18	SSW (192)	82	0	
10/15/2020 6:00	14	12	20	SSW (211)	76	0	
10/15/2020 7:00	13.8	14	26	WSW (241)	77	0	
10/15/2020 8:00	13.5	17	33	SW (221)	80	0.4	0.8
10/15/2020 9:00	12.8	17	30	SW (214)	81	0.6	
10/15/2020 10:00	12.2	19	31	SW (233)	85	0.4	
10/15/2020 11:00	11.4	22	39	WSW (240)	92	1.4	
10/15/2020 12:00	11.2	19	33	SW (225)	100	1	
10/15/2020 13:00	11.2	15	24	W (270)	100	0.2	
10/15/2020 14:00	11.4	18	29	W (268)	75	0	
10/15/2020 15:00	10.6	16	29	NW (310)	70	0	
10/15/2020 16:00	10.2	15	29	W (274)	68	0	
10/15/2020 17:00	9.6	10	19	SW (222)	71	0	
10/15/2020 18:00	9.3	12	20	WSW (256)	70	0	
10/15/2020 19:00	8.8	11	19	W (270)	69	0	
10/15/2020 20:00	8.6	15	25	WNW (285)	67	0	
10/15/2020 21:00	8.1	12	17	WSW (237)	70	0	
10/15/2020 22:00	7.3	10	16	WSW (258)	73	0	
10/15/2020 23:00	6.7	9	14	WSW (257)	76	0	
10/16/2020 0:00	7.1	14	24	W (277)	75	0	
10/16/2020 1:00	6.1	10	21	WSW (253)	85	0	
10/16/2020 2:00	5.3	9	16	W (279)	89	0	
10/16/2020 3:00	4.3	10	15	W (261)	92	0	
10/16/2020 4:00	3.2	10	14	WSW (243)	92	0	
10/16/2020 5:00	2.3	9	13	SW (225)	91	0	
10/16/2020 6:00	1.4	8	12	SW (227)	100	0	
10/16/2020 7:00	0.9	8	11	SW (222)	99	0	
10/16/2020 8:00	1.3	9	14	SW (230)	94	0	3.6
10/16/2020 9:00	3.4	10	17	WSW (239)	82	0	
10/16/2020 10:00	5.9	13	21	SW (217)	69	0	
10/16/2020 11:00	7.6	16	26	WSW (238)	51	0	
10/16/2020 12:00	8.9	18	31	SSW (210)	51	0	
10/16/2020 13:00	10	18	29	SW (236)	45	0	
10/16/2020 14:00	10.5	19	34	SW (224)	41	0	
10/16/2020 15:00	10.7	18	31	SSW (193)	41	0	
10/16/2020 16:00	10.9	16	31	SW (225)	42	0	
10/16/2020 17:00	9.5	17	30	NW (314)	71	0	
10/16/2020 18:00	7.1	8	18	E (94)	74	0	
10/16/2020 19:00	5.7	3	8	ESE (114)	87	0	
10/16/2020 20:00	4.5	5	8	NE (49)	88	0	
10/16/2020 21:00	3.2	6	11	ESE (120)	100	0	
10/16/2020 22:00	3.5	10	12	SE (124)	100	0	
10/16/2020 23:00	3.3	10	14	NNW (331)	94	0	
10/17/2020 0:00	2.1	6	10	SE (127)	100	0	
10/17/2020 1:00	2.7	10	13	SSE (153)	100	0	
10/17/2020 2:00	3.3	10	14	SSE (165)	79	0	
10/17/2020 3:00	3.7	12	16	S (185)	69	0	
10/17/2020 4:00	4.5	12	21	SSW (201)	69	0	
10/17/2020 5:00	3.5	9	16	S (180)	74	0	
10/17/2020 6:00	3	7	13	SW (235)	80	0	
10/17/2020 7:00	2.4	7	10	S (182)	82	0	
10/17/2020 8:00	3	7	12	SW (227)	77	0	0
10/17/2020 9:00	4.6	12	20	SW (234)	74	0	
10/17/2020 10:00	6.3	14	24	SW (228)	71	0	
10/17/2020 11:00	7.8	14	25	WSW (253)	61	0	
10/17/2020 12:00	8.6	12	24	SW (232)	43	0	
10/17/2020 13:00	9.7	12	24	SW (221)	41	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/17/2020 14:00	10.6	10	20	SW (219)	40	0	
10/17/2020 15:00	11.4	11	20	SSW (196)	38	0	
10/17/2020 16:00	11.5	15	26	SSW (198)	37	0	
10/17/2020 17:00	11.1	12	21	S (172)	45	0	
10/17/2020 18:00	10.1	19	27	SSE (149)	51	0	
10/17/2020 19:00	9.1	20	27	SE (136)	53	0	
10/17/2020 20:00	9	21	29	SE (140)	58	0	
10/17/2020 21:00	9.7	21	33	SSE (156)	60	0	
10/17/2020 22:00	10.3	15	22	S (176)	60	0	
10/17/2020 23:00	11.4	14	25	SSW (209)	60	0.2	
10/18/2020 0:00	10.3	13	20	SE (146)	63	0	
10/18/2020 1:00	10.5	14	21	SSE (167)	60	0	
10/18/2020 2:00	10.8	15	23	S (174)	61	0	
10/18/2020 3:00	11.5	18	29	S (190)	57	0	
10/18/2020 4:00	11.6	15	26	SSE (165)	53	0	
10/18/2020 5:00	11.4	15	24	S (170)	55	0	
10/18/2020 6:00	11.3	18	25	SSE (164)	53	0	
10/18/2020 7:00	11.3	19	27	SSE (162)	55	0	
10/18/2020 8:00	11.5	18	28	S (169)	56	0	0.2
10/18/2020 9:00	11.6	14	21	S (170)	58	0	
10/18/2020 10:00	11.5	13	28	SSW (206)	66	0.2	
10/18/2020 11:00	9.9	13	31	S (187)	79	0.6	
10/18/2020 12:00	9.4	14	21	SSE (160)	84	0.2	
10/18/2020 13:00	9.9	16	24	SSE (168)	81	0	
10/18/2020 14:00	11.4	19	33	S (182)	77	0	
10/18/2020 15:00	13	20	36	SSW (192)	67	0	
10/18/2020 16:00	12.3	19	39	SSW (211)	70	0	
10/18/2020 17:00	12	17	32	SSW (198)	75	0	
10/18/2020 18:00	11.6	13	27	SSW (198)	76	0.2	
10/18/2020 19:00	10.8	11	21	SW (226)	88	0.4	
10/18/2020 20:00	9	16	30	WNW (298)	100	2.2	
10/18/2020 21:00	7.8	16	26	NW (317)	100	1.2	
10/18/2020 22:00	7	6	12	N (0)	100	0.6	
10/18/2020 23:00	7	6	11	NW (317)	100	0	
10/19/2020 0:00	7	5	10	WNW (284)	100	0.2	
10/19/2020 1:00	6.9	3	7	NNW (339)	100	0	
10/19/2020 2:00	6.8	2	5	W (267)	100	0	
10/19/2020 3:00	6.6	2	6	NNE (24)	100	0	
10/19/2020 4:00	6.5	3	5	SE (124)	100	0	
10/19/2020 5:00	6.5	3	6	S (180)	100	0	
10/19/2020 6:00	6.4	1	3	SW (226)	100	0	
10/19/2020 7:00	6.1	1	3	S (190)	100	0	
10/19/2020 8:00	6.2	4	7	SE (133)	100	0	5.8
10/19/2020 9:00	6.4	4	7	SE (125)	100	0	
10/19/2020 10:00	6.5	9	16	SE (139)	100	0.4	
10/19/2020 11:00	6.6	12	18	SE (143)	100	0.2	
10/19/2020 12:00	7	10	17	SE (142)	100	0.2	
10/19/2020 13:00	7.4	3	7	NNW (341)	98	0	
10/19/2020 14:00	7.5	7	11	NNE (13)	100	0	
10/19/2020 15:00	7.4	8	12	NE (43)	100	0	
10/19/2020 16:00	7.8	11	15	E (84)	100	0	
10/19/2020 17:00	7.8	9	17	NE (52)	96	0	
10/19/2020 18:00	7.5	6	10	NNE (19)	100	0	
10/19/2020 19:00	7.3	7	17	NW (319)	100	0.4	
10/19/2020 20:00	6.5	13	21	N (354)	100	1.2	
10/19/2020 21:00	5.9	10	17	NNE (33)	100	0	
10/19/2020 22:00	5.9	11	18	NNE (16)	100	0.6	
10/19/2020 23:00	5.6	9	14	NNE (22)	100	0.6	
10/20/2020 0:00	5.6	9	14	N (2)	100	0.2	
10/20/2020 1:00	5.7	8	12	N (7)	100	0	
10/20/2020 2:00	5.8	7	13	N (7)	100	0	
10/20/2020 3:00	5.8	8	14	NNE (13)	100	0.2	
10/20/2020 4:00	5.9	8	15	N (353)	100	0	
10/20/2020 5:00	5.9	6	12	NNE (13)	100	0	
10/20/2020 6:00	5.9	5	10	N (353)	100	0	
10/20/2020 7:00	5.8	6	10	NE (52)	100	0	
10/20/2020 8:00	6	5	9	ENE (60)	99	0	4
10/20/2020 9:00	6.7	8	14	ENE (69)	95	0	
10/20/2020 10:00	8.1	14	23	NE (50)	77	0	
10/20/2020 11:00	9	12	21	NE (49)	65	0	
10/20/2020 12:00	9.7	13	21	NNW (346)	64	0	
10/20/2020 13:00	10.1	12	21	NE (38)	62	0	
10/20/2020 14:00	10.6	12	23	NNE (31)	62	0	
10/20/2020 15:00	10.6	10	19	E (86)	62	0	
10/20/2020 16:00	10.9	10	17	ENE (66)	61	0	
10/20/2020 17:00	10.3	9	16	NNE (30)	65	0	
10/20/2020 18:00	9.2	6	9	ESE (104)	75	0	
10/20/2020 19:00	8.4	8	12	ESE (110)	75	0	
10/20/2020 20:00	8.5	10	16	ESE (107)	79	0	
10/20/2020 21:00	8.4	17	28	ESE (106)	80	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/20/2020 22:00	8.1	21	32	E (96)	78	0	
10/20/2020 23:00	8	15	24	ESE (113)	78	0	
10/21/2020 0:00	7.7	23	33	SE (124)	87	0	
10/21/2020 1:00	7.7	26	38	ESE (114)	100	0	
10/21/2020 2:00	8.4	26	35	SE (137)	100	0	
10/21/2020 3:00	9.5	19	31	SE (144)	100	2.2	
10/21/2020 4:00	12.4	21	32	S (178)	100	3	
10/21/2020 5:00	15.6	24	44	SSW (209)	100	0.4	
10/21/2020 6:00	16.4	29	45	WSW (237)	100	0.2	
10/21/2020 7:00	15.3	23	38	W (263)	100	1	
10/21/2020 8:00	14.4	17	34	W (272)	100	0.4	7.2
10/21/2020 9:00	13.7	17	30	W (262)	100	0	
10/21/2020 10:00	13.2	16	26	W (262)	100	0	
10/21/2020 11:00	13	17	29	W (268)	100	0	
10/21/2020 12:00	13.3	18	36	W (260)	95	0	
10/21/2020 13:00	13.4	19	31	W (278)	76	0	
10/21/2020 14:00	13.2	19	30	NW (309)	70	0	
10/21/2020 15:00	13.4	14	25	NW (312)	67	0	
10/21/2020 16:00	13	11	19	NW (305)	69	0	
10/21/2020 17:00	12.5	6	13	W (262)	68	0	
10/21/2020 18:00	11.1	2	6	SE (144)	77	0	
10/21/2020 19:00	10	4	9	WSW (246)	83	0	
10/21/2020 20:00	8.9	4	9	W (278)	85	0	
10/21/2020 21:00	8.3	3	8	SE (129)	92	0	
10/21/2020 22:00	7.9	6	10	NW (316)	91	0	
10/21/2020 23:00	8.7	3	6	SW (236)	85	0	
10/22/2020 0:00	8.5	2	5	N (0)	88	0	
10/22/2020 1:00	8.7	6	14	ESE (120)	93	0	
10/22/2020 2:00	8.3	8	16	NE (53)	100	0	
10/22/2020 3:00	8.4	2	5	SE (125)	100	0	
10/22/2020 4:00	8.7	5	12	SE (129)	100	0	
10/22/2020 5:00	8.7	5	10	E (98)	100	0.4	
10/22/2020 6:00	8.6	6	10	E (83)	100	0.2	
10/22/2020 7:00	8.3	5	9	E (82)	100	1.2	
10/22/2020 8:00	8.1	8	12	ESE (105)	100	0	1.8
10/22/2020 9:00	8.3	7	12	ENE (71)	100	0	
10/22/2020 10:00	8.9	12	19	ENE (75)	100	0	
10/22/2020 11:00	9.5	14	19	ESE (113)	100	0	
10/22/2020 12:00	10	14	22	ESE (114)	98	0	
10/22/2020 13:00	10.9	16	26	SE (127)	86	0	
10/22/2020 14:00	11.9	14	22	SE (126)	84	0	
10/22/2020 15:00	12.6	15	21	SE (132)	88	0	
10/22/2020 16:00	12.9	19	28	SE (138)	100	0	
10/22/2020 17:00	12.7	17	27	SSE (149)	100	0	
10/22/2020 18:00	12.6	17	24	ESE (122)	100	0	
10/22/2020 19:00	12.8	17	24	ESE (114)	100	0	
10/22/2020 20:00	12.4	17	25	ESE (116)	100	0	
10/22/2020 21:00	11.8	22	29	SE (126)	100	0	
10/22/2020 22:00	11.4	25	34	SE (138)	100	0	
10/22/2020 23:00	11.2	31	42	SE (144)	100	0	
10/23/2020 0:00	11.3	26	34	SE (139)	100	0	
10/23/2020 1:00	11.3	22	27	SE (132)	100	0	
10/23/2020 2:00	11.7	20	26	SE (145)	100	0	
10/23/2020 3:00	12.9	19	29	SSE (155)	100	0	
10/23/2020 4:00	13.8	16	22	S (182)	100	0	
10/23/2020 5:00	14.6	15	21	SSE (165)	100	0	
10/23/2020 6:00	16	15	21	S (182)	100	0	
10/23/2020 7:00	17.3	15	27	S (179)	100	0	
10/23/2020 8:00	17.8	16	26	SSW (199)	99	0	0
10/23/2020 9:00	19	18	31	S (179)	90	0	
10/23/2020 10:00	20.4	19	36	SSW (212)	74	0	
10/23/2020 11:00	21.9	23	36	S (188)	70	0	
10/23/2020 12:00	22.7	21	37	S (185)	71	0	
10/23/2020 13:00	23.6	22	35	SSW (206)	69	0	
10/23/2020 14:00	23.5	23	39	SSE (162)	69	0	
10/23/2020 15:00	23.5	22	37	SW (220)	70	0	
10/23/2020 16:00	23.5	21	38	S (181)	70	0	
10/23/2020 17:00	22	19	36	WSW (237)	92	2.8	
10/23/2020 18:00	18.2	22	38	SSW (198)	91	0.2	
10/23/2020 19:00	17	18	28	WSW (239)	100	0	
10/23/2020 20:00	15.6	23	45	NW (312)	100	0.2	
10/23/2020 21:00	10.8	29	44	WNW (298)	100	0.2	
10/23/2020 22:00	8.8	29	44	NW (313)	100	0	
10/23/2020 23:00	8	27	38	NW (310)	85	0	
10/24/2020 0:00	7.8	26	40	NW (317)	80	0	
10/24/2020 1:00	7.5	25	37	NW (314)	80	0	
10/24/2020 2:00	6.9	25	37	WNW (294)	77	0	
10/24/2020 3:00	6.2	23	36	NNW (327)	79	0	
10/24/2020 4:00	5.4	23	40	NW (321)	76	0	
10/24/2020 5:00	5.1	22	34	NW (318)	77	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/24/2020 6:00	4.6	21	33	NW (316)	86	0	
10/24/2020 7:00	4.3	16	29	NW (316)	100	0	
10/24/2020 8:00	4.5	15	23	NNW (337)	100	0.2	3.6
10/24/2020 9:00	5.4	10	22	NW (324)	88	0	
10/24/2020 10:00	5.6	11	28	N (0)	86	0.6	
10/24/2020 11:00	5.8	12	24	NNW (332)	86	0	
10/24/2020 12:00	6.6	16	29	NW (306)	79	0	
10/24/2020 13:00	7.1	16	27	NNW (330)	71	0	
10/24/2020 14:00	6.9	16	31	NNW (328)	70	0	
10/24/2020 15:00	6.4	17	30	NNW (342)	70	0	
10/24/2020 16:00	6.1	15	26	NNW (338)	69	0	
10/24/2020 17:00	5.5	13	23	NW (314)	77	0	
10/24/2020 18:00	4.8	11	22	NW (317)	80	0	
10/24/2020 19:00	3.9	6	11	NE (36)	85	0	
10/24/2020 20:00	3.5	9	16	NE (47)	87	0	
10/24/2020 21:00	3.5	7	10	NE (48)	84	0	
10/24/2020 22:00	2.3	7	9	ENE (72)	87	0	
10/24/2020 23:00	1.9	6	8	ENE (65)	87	0	
10/25/2020 0:00	1.6	5	10	ENE (77)	91	0	
10/25/2020 1:00	1.2	9	11	ESE (105)	90	0	
10/25/2020 2:00	1	8	12	NE (56)	89	0	
10/25/2020 3:00	0.6	6	10	ENE (68)	91	0	
10/25/2020 4:00	0.9	4	8	NE (55)	92	0	
10/25/2020 5:00	1.1	6	9	ENE (63)	93	0	
10/25/2020 6:00	1	7	10	E (92)	89	0	
10/25/2020 7:00	1.2	8	12	ESE (107)	89	0	
10/25/2020 8:00	1.3	8	11	ENE (70)	88	0.2	0.8
10/25/2020 9:00	2.8	12	21	E (98)	83	0	
10/25/2020 10:00	3.9	14	21	E (85)	79	0	
10/25/2020 11:00	4.9	14	20	E (80)	75	0	
10/25/2020 12:00	5.5	14	21	ENE (77)	72	0	
10/25/2020 13:00	5.8	13	21	E (80)	68	0	
10/25/2020 14:00	6.4	14	22	NE (48)	67	0	
10/25/2020 15:00	7	14	21	ENE (74)	65	0	
10/25/2020 16:00	7.3	13	20	NE (45)	59	0	
10/25/2020 17:00	6.9	13	19	ENE (69)	69	0	
10/25/2020 18:00	6.2	13	21	E (79)	75	0	
10/25/2020 19:00	5.8	11	20	ENE (61)	77	0	
10/25/2020 20:00	5.7	13	25	ENE (77)	77	0	
10/25/2020 21:00	5.5	15	24	ENE (74)	78	0	
10/25/2020 22:00	5.3	12	18	ENE (72)	81	0	
10/25/2020 23:00	5.3	9	15	ENE (69)	83	0	
10/26/2020 0:00	5.2	8	14	NNE (30)	83	0	
10/26/2020 1:00	5.3	8	12	NNE (30)	83	0	
10/26/2020 2:00	5.3	8	12	NE (35)	79	0	
10/26/2020 3:00	4.9	7	13	NNE (31)	85	0	
10/26/2020 4:00	4.4	6	10	N (10)	96	0	
10/26/2020 5:00	4.3	5	10	NNE (30)	100	0.2	
10/26/2020 6:00	4.4	5	9	N (11)	100	0	
10/26/2020 7:00	4.5	6	9	NE (35)	100	0	
10/26/2020 8:00	4.6	5	9	NNE (14)	100	0	0.2
10/26/2020 9:00	5.3	6	11	NW (321)	100	0	
10/26/2020 10:00	6.1	6	12	ENE (60)	99	0	
10/26/2020 11:00	6.5	8	12	N (11)	82	0	
10/26/2020 12:00	7.2	7	17	NW (308)	78	0	
10/26/2020 13:00	7.7	13	20	NNW (331)	71	0	
10/26/2020 14:00	7.5	15	25	NW (309)	76	0	
10/26/2020 15:00	7.4	16	25	NW (315)	78	0	
10/26/2020 16:00	6.6	18	27	WNW (298)	88	0	
10/26/2020 17:00	6.7	14	22	WNW (302)	81	0	
10/26/2020 18:00	6.5	12	20	WNW (297)	79	0	
10/26/2020 19:00	6.2	12	20	NW (304)	77	0	
10/26/2020 20:00	5.8	8	13	WNW (289)	77	0	
10/26/2020 21:00	5.7	13	28	NW (317)	79	0	
10/26/2020 22:00	5	9	19	W (280)	79	0	
10/26/2020 23:00	4.7	7	12	WSW (247)	81	0	
10/27/2020 0:00	4.3	7	12	W (262)	83	0	
10/27/2020 1:00	4	8	11	SW (231)	84	0	
10/27/2020 2:00	4.1	8	12	WSW (249)	86	0	
10/27/2020 3:00	4.1	8	11	WSW (241)	87	0	
10/27/2020 4:00	4	7	11	SW (228)	91	0	
10/27/2020 5:00	4	7	14	SSW (205)	100	0	
10/27/2020 6:00	3.9	8	14	WSW (244)	100	0	
10/27/2020 7:00	3.8	9	13	SW (234)	98	0	
10/27/2020 8:00	3.9	7	14	WSW (244)	90	0	0
10/27/2020 9:00	4.5	8	13	W (270)	86	0	
10/27/2020 10:00	5.6	11	20	WNW (282)	81	0	
10/27/2020 11:00	5.7	11	17	W (277)	76	0	
10/27/2020 12:00	5.5	10	18	WNW (292)	76	0.2	
10/27/2020 13:00	4.7	11	21	W (278)	85	0.4	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/27/2020 14:00	3.5	10	17	WNW (282)	92	1.2	
10/27/2020 15:00	2.7	10	19	W (270)	100	1.6	
10/27/2020 16:00	2.1	7	12	SW (233)	100	1.6	
10/27/2020 17:00	1.5	8	12	SW (225)	100	1.2	
10/27/2020 18:00	1.4	6	11	SSW (197)	100	0.2	
10/27/2020 19:00	1.3	7	11	SW (222)	100	0	
10/27/2020 20:00	1.3	5	9	SW (214)	100	0	
10/27/2020 21:00	1.3	3	6	SW (222)	100	0	
10/27/2020 22:00	1.3	3	7	WNW (290)	100	0	
10/27/2020 23:00	1.5	2	5	ESE (113)	100	0	
10/28/2020 0:00	1.8	3	6	SSE (157)	100	0	
10/28/2020 1:00	2	3	8	NW (306)	100	0	
10/28/2020 2:00	2.2	3	7	W (278)	100	0	
10/28/2020 3:00	2.4	4	7	W (280)	100	0	
10/28/2020 4:00	2.5	6	9	WSW (244)	100	0	
10/28/2020 5:00	2.8	6	10	WSW (258)	100	0	
10/28/2020 6:00	3.2	6	10	SW (224)	100	0	
10/28/2020 7:00	3.6	8	15	SW (230)	100	0	
10/28/2020 8:00	3.3	6	12	SW (217)	100	0	6.4
10/28/2020 9:00	4.1	13	29	SW (233)	100	0	
10/28/2020 10:00	5.4	19	31	WSW (241)	96	0	
10/28/2020 11:00	6.8	19	31	SW (224)	68	0	
10/28/2020 12:00	7.8	20	32	SW (222)	60	0	
10/28/2020 13:00	9.1	20	31	SW (222)	56	0	
10/28/2020 14:00	10	20	33	WSW (242)	49	0	
10/28/2020 15:00	10.5	20	30	SW (229)	49	0	
10/28/2020 16:00	10.3	20	31	SW (226)	52	0	
10/28/2020 17:00	9.6	16	27	S (178)	58	0	
10/28/2020 18:00	8.3	11	18	SW (225)	66	0	
10/28/2020 19:00	7.4	9	19	SW (227)	73	0	
10/28/2020 20:00	6.7	8	14	SSW (207)	76	0	
10/28/2020 21:00	6.6	10	15	SSW (194)	76	0	
10/28/2020 22:00	6.5	11	18	S (179)	75	0	
10/28/2020 23:00	5.8	7	16	SW (218)	82	0	
10/29/2020 0:00	5.6	6	9	S (182)	81	0	
10/29/2020 1:00	4.9	5	13	S (176)	86	0	
10/29/2020 2:00	4.8	5	12	WSW (239)	86	0	
10/29/2020 3:00	4.3	4	6	SSW (201)	90	0	
10/29/2020 4:00	4.7	4	7	SW (231)	87	0	
10/29/2020 5:00	4.8	4	7	N (354)	87	0	
10/29/2020 6:00	4.6	7	12	N (354)	84	0	
10/29/2020 7:00	4.7	4	9	NNE (29)	79	0	
10/29/2020 8:00	5.1	2	4	NE (39)	79	0	0
10/29/2020 9:00	5.5	3	5	E (98)	83	0	
10/29/2020 10:00	6.7	5	9	NE (39)	83	0	
10/29/2020 11:00	8.1	8	15	ENE (63)	73	0	
10/29/2020 12:00	9	11	18	NE (39)	67	0	
10/29/2020 13:00	9.8	11	20	NW (326)	63	0	
10/29/2020 14:00	10.7	15	25	N (4)	69	0	
10/29/2020 15:00	9.8	17	27	N (3)	74	0	
10/29/2020 16:00	8.6	20	31	NNE (25)	78	0	
10/29/2020 17:00	7.7	17	28	NNE (27)	80	0	
10/29/2020 18:00	6.6	20	34	NNE (20)	84	0	
10/29/2020 19:00	5.7	20	33	N (352)	87	0	
10/29/2020 20:00	5	20	30	N (8)	92	0	
10/29/2020 21:00	4.4	21	34	N (8)	100	0	
10/29/2020 22:00	3.6	21	35	N (3)	100	0	
10/29/2020 23:00	3.2	21	30	N (2)	100	0.2	
10/30/2020 0:00	2.9	15	28	NNE (28)	100	0	
10/30/2020 1:00	2.8	10	17	N (6)	100	0	
10/30/2020 2:00	2.9	13	23	N (11)	100	0	
10/30/2020 3:00	2.7	15	26	NE (35)	100	0	
10/30/2020 4:00	2.4	12	21	N (0)	98	0	
10/30/2020 5:00	2.3	12	18	NNE (31)	98	0	
10/30/2020 6:00	1.6	13	20	NE (35)	95	0	
10/30/2020 7:00	1.4	7	13	NNE (26)	93	0	
10/30/2020 8:00	1.4	10	18	NE (35)	85	0	0.2
10/30/2020 9:00	1.7	10	22	WNW (289)	99	0.2	
10/30/2020 10:00	0.2	6	15	N (351)	100	0	
10/30/2020 11:00	0.8	7	23	NW (310)	100	3	
10/30/2020 12:00	1.5	15	27	NNW (333)	100	2.4	
10/30/2020 13:00	2.5	23	39	WNW (299)	98	0	
10/30/2020 14:00	2.9	25	39	NW (308)	67	0	
10/30/2020 15:00	3.2	23	32	NW (306)	61	0	
10/30/2020 16:00	3.2	20	30	WNW (301)	56	0	
10/30/2020 17:00	2.8	18	29	WNW (287)	66	0	
10/30/2020 18:00	2.2	17	29	NW (304)	67	0	
10/30/2020 19:00	2	15	28	WNW (288)	66	0	
10/30/2020 20:00	1.8	9	18	W (276)	69	0	
10/30/2020 21:00	2	11	17	W (280)	70	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
10/30/2020 22:00	1.9	10	15	NW (323)	67	0	
10/30/2020 23:00	1.8	9	17	NW (304)	64	0	
10/31/2020 0:00	1.6	8	19	N (0)	63	0	
10/31/2020 1:00	1	4	7	WNW (301)	71	0	
10/31/2020 2:00	0.7	3	6	NW (313)	73	0	
10/31/2020 3:00	0.2	4	8	S (174)	78	0	
10/31/2020 4:00	0.4	5	9	SW (216)	72	0	
10/31/2020 5:00	-0.1	2	8	ENE (76)	78	0	
10/31/2020 6:00	-1.2	4	7	SE (133)	82	0	
10/31/2020 7:00	-1.1	8	13	SE (127)	81	0	
10/31/2020 8:00	-0.9	8	14	ESE (110)	82	0	5.6
10/31/2020 9:00	0.4	13	22	SE (133)	78	0	
10/31/2020 10:00	2.6	16	23	SSE (166)	75	0	
10/31/2020 11:00	4.5	14	24	S (176)	63	0	
10/31/2020 12:00	5.6	16	26	S (174)	63	0	
10/31/2020 13:00	5.7	19	29	SSE (157)	68	0	
10/31/2020 14:00	6	19	29	S (187)	68	0	
10/31/2020 15:00	6.7	20	31	S (169)	61	0	
10/31/2020 16:00	6.7	22	33	S (176)	62	0	
10/31/2020 17:00	6.3	20	34	S (176)	64	0	
10/31/2020 18:00	4.8	17	25	SE (138)	70	0	
10/31/2020 19:00	4.1	17	22	SE (140)	73	0	
10/31/2020 20:00	3.9	18	26	SE (146)	75	0	
10/31/2020 21:00	4.4	16	22	SSE (161)	74	0	
10/31/2020 22:00	5.6	19	27	S (180)	74	0	
10/31/2020 23:00	6.6	23	35	S (178)	69	0	
11/1/2020 0:00	8.2	23	36	S (170)	67	0	
11/1/2020 1:00	8.8	22	35	S (175)	67	0	
11/1/2020 2:00	9.3	20	33	S (187)	66	0	
11/1/2020 3:00	9.2	20	34	S (186)	68	0	
11/1/2020 4:00	9.8	22	37	SSW (202)	69	0	
11/1/2020 5:00	9.7	24	39	SW (231)	75	0	
11/1/2020 6:00	8.2	22	42	SW (232)	100	2.2	
11/1/2020 7:00	7.4	22	38	W (265)	100	1.4	3.6
11/1/2020 8:00	6	17	28	W (280)	85	0.2	
11/1/2020 9:00	5.1	17	44	W (278)	88	0.4	
11/1/2020 10:00	6.3	26	45	W (273)	71	0	
11/1/2020 11:00	5.2	26	47	WNW (293)	66	0	
11/1/2020 12:00	3.5	31	50	W (270)	72	0	
11/1/2020 13:00	3	29	47	WNW (285)	64	0	
11/1/2020 14:00	2.4	28	52	WNW (284)	63	0	
11/1/2020 15:00	2.2	28	46	W (263)	63	0	
11/1/2020 16:00	2.1	29	49	W (265)	58	0	
11/1/2020 17:00	1	28	57	W (280)	84	0	
11/1/2020 18:00	1.1	31	62	WNW (284)	78	0	
11/1/2020 19:00	1.3	37	70	WNW (282)	74	0	
11/1/2020 20:00	1.4	37	57	WNW (299)	70	0	
11/1/2020 21:00	0.8	38	66	WNW (290)	81	0	
11/1/2020 22:00	0.7	43	69	NW (312)	79	0	
11/1/2020 23:00	0.3	40	67	NNW (327)	86	0	
11/2/2020 0:00	1.1	40	61	NW (308)	72	0	
11/2/2020 1:00	0.8	40	57	NW (315)	62	0	
11/2/2020 2:00	0.5	38	61	WNW (291)	60	0	
11/2/2020 3:00	0.3	35	49	WNW (301)	62	0	
11/2/2020 4:00	0.3	30	47	NW (321)	62	0	
11/2/2020 5:00	0.2	31	44	NW (317)	62	0	
11/2/2020 6:00	0.1	23	35	WNW (295)	65	0	
11/2/2020 7:00	0.2	19	29	NW (316)	67	0	0.6
11/2/2020 8:00	0.7	22	36	W (280)	65	0	
11/2/2020 9:00	0.6	20	30	W (281)	70	0	
11/2/2020 10:00	1.6	21	34	WNW (286)	65	0	
11/2/2020 11:00	2.9	19	29	W (270)	59	0	
11/2/2020 12:00	4	21	36	SW (236)	48	0	
11/2/2020 13:00	5.2	22	38	WSW (250)	45	0	
11/2/2020 14:00	5.5	23	36	WSW (238)	41	0	
11/2/2020 15:00	6.3	27	40	SW (234)	38	0	
11/2/2020 16:00	7	26	44	WSW (243)	37	0	
11/2/2020 17:00	6.1	23	42	W (269)	42	0	
11/2/2020 18:00	5.7	25	38	WSW (241)	44	0	
11/2/2020 19:00	5.3	24	41	WSW (246)	43	0	
11/2/2020 20:00	4.9	22	36	W (264)	44	0	
11/2/2020 21:00	5	23	38	W (280)	45	0	
11/2/2020 22:00	5.6	18	32	W (279)	50	0	
11/2/2020 23:00	6.2	21	36	WNW (301)	53	0	
11/3/2020 0:00	5.8	18	31	W (272)	57	0	
11/3/2020 1:00	5.2	15	23	W (278)	63	0	
11/3/2020 2:00	4.3	14	21	WSW (245)	67	0	
11/3/2020 3:00	3.4	9	17	SW (233)	70	0	
11/3/2020 4:00	2.7	9	14	SW (225)	72	0	
11/3/2020 5:00	2.3	8	11	SW (227)	78	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/3/2020 6:00	1.5	7	11	SSW (203)	78	0	
11/3/2020 7:00	1.8	9	14	SW (222)	77	0	0
11/3/2020 8:00	3.1	11	18	SW (220)	76	0	
11/3/2020 9:00	5.7	11	18	W (277)	70	0	
11/3/2020 10:00	7.2	10	15	NW (310)	65	0	
11/3/2020 11:00	8.7	8	16	SSW (210)	62	0	
11/3/2020 12:00	10.3	11	19	WSW (241)	58	0	
11/3/2020 13:00	11.2	13	22	SW (231)	54	0	
11/3/2020 14:00	12.5	15	23	SSW (196)	49	0	
11/3/2020 15:00	12.1	14	24	S (177)	49	0	
11/3/2020 16:00	11.3	14	23	SW (218)	53	0	
11/3/2020 17:00	9.8	11	18	S (183)	63	0	
11/3/2020 18:00	8.2	13	20	S (171)	66	0	
11/3/2020 19:00	7.9	14	19	S (179)	65	0	
11/3/2020 20:00	8.1	15	20	S (180)	67	0	
11/3/2020 21:00	7.8	14	21	SSW (198)	68	0	
11/3/2020 22:00	9.7	15	26	SSW (192)	62	0	
11/3/2020 23:00	9.7	19	28	SW (220)	65	0	
11/4/2020 0:00	9.1	17	25	SSW (199)	66	0	
11/4/2020 1:00	9.4	16	27	SSW (207)	63	0	
11/4/2020 2:00	9	17	27	SSW (192)	65	0	
11/4/2020 3:00	8.6	16	29	SSW (194)	65	0	
11/4/2020 4:00	8.6	17	27	SSW (211)	64	0	
11/4/2020 5:00	8.4	15	25	SSE (158)	66	0	
11/4/2020 6:00	8	16	24	SSE (151)	69	0	
11/4/2020 7:00	8.2	20	29	SSE (163)	69	0	0
11/4/2020 8:00	9.4	19	29	SSW (208)	67	0	
11/4/2020 9:00	11.6	19	34	S (182)	64	0	
11/4/2020 10:00	13.3	22	38	SSW (211)	59	0	
11/4/2020 11:00	14.9	21	35	SW (223)	55	0	
11/4/2020 12:00	16.4	21	34	SSE (168)	52	0	
11/4/2020 13:00	17.5	22	36	SSW (212)	49	0	
11/4/2020 14:00	18.3	22	35	SSW (204)	46	0	
11/4/2020 15:00	18.5	21	36	S (185)	46	0	
11/4/2020 16:00	17.8	16	27	S (187)	49	0	
11/4/2020 17:00	16.5	17	26	S (186)	55	0	
11/4/2020 18:00	15.8	18	29	S (191)	55	0	
11/4/2020 19:00	15.5	17	31	SSW (194)	54	0	
11/4/2020 20:00	15.3	17	27	S (184)	54	0	
11/4/2020 21:00	14.7	17	27	SSW (209)	54	0	
11/4/2020 22:00	14.3	18	29	SSE (162)	55	0	
11/4/2020 23:00	13.6	17	26	SSW (196)	57	0	
11/5/2020 0:00	13	18	28	SSW (194)	59	0	
11/5/2020 1:00	12.5	18	28	S (191)	61	0	
11/5/2020 2:00	12.2	16	28	SSW (209)	62	0	
11/5/2020 3:00	11.9	17	27	SSW (213)	64	0	
11/5/2020 4:00	11.7	17	26	S (180)	66	0	
11/5/2020 5:00	11.3	18	29	S (188)	68	0	
11/5/2020 6:00	11	17	27	SW (216)	70	0	
11/5/2020 7:00	10.8	16	27	SSW (197)	71	0	0
11/5/2020 8:00	11.5	17	26	SSW (213)	70	0	
11/5/2020 9:00	12.6	18	28	SW (216)	68	0	
11/5/2020 10:00	13.8	17	27	SSW (206)	66	0	
11/5/2020 11:00	15.3	18	31	SSW (202)	60	0	
11/5/2020 12:00	15.5	17	29	SW (226)	60	0	
11/5/2020 13:00	16.7	18	29	SSW (196)	55	0	
11/5/2020 14:00	16.3	18	32	SSW (212)	56	0	
11/5/2020 15:00	15.8	16	26	SW (215)	59	0	
11/5/2020 16:00	14.7	13	30	SSW (201)	63	0	
11/5/2020 17:00	14	13	23	S (169)	64	0	
11/5/2020 18:00	13.9	14	23	SW (230)	64	0	
11/5/2020 19:00	13.1	12	21	WSW (256)	68	0	
11/5/2020 20:00	12.2	12	18	SW (221)	70	0	
11/5/2020 21:00	11.5	11	17	SW (222)	73	0	
11/5/2020 22:00	11	10	17	SW (228)	73	0	
11/5/2020 23:00	10.8	14	21	SSW (202)	74	0	
11/6/2020 0:00	10.3	14	21	SW (224)	76	0	
11/6/2020 1:00	9.9	14	22	SW (221)	77	0	
11/6/2020 2:00	9.5	13	21	SW (230)	79	0	
11/6/2020 3:00	9.2	11	19	WSW (253)	81	0	
11/6/2020 4:00	8.8	10	17	SSW (205)	82	0	
11/6/2020 5:00	8.7	10	17	SW (225)	82	0	
11/6/2020 6:00	8.4	9	15	SSW (207)	84	0	
11/6/2020 7:00	8.2	10	15	SW (222)	84	0	0
11/6/2020 8:00	9.4	10	19	SSW (200)	83	0	
11/6/2020 9:00	11.4	14	22	SSW (201)	78	0	
11/6/2020 10:00	13.6	14	22	SSW (206)	70	0	
11/6/2020 11:00	15.8	13	21	S (174)	66	0	
11/6/2020 12:00	17.4	15	26	SSW (202)	61	0	
11/6/2020 13:00	18.3	12	34	NW (311)	59	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/6/2020 14:00	18.3	13	24	SW (235)	57	13.8	
11/6/2020 15:00	17.9	15	25	SW (228)	56	0.2	
11/6/2020 16:00	17.4	13	25	SSW (212)	60	11	
11/6/2020 17:00	15.9	12	20	SW (222)	64	0	
11/6/2020 18:00	15.5	14	26	SSW (206)	63	0	
11/6/2020 19:00	14.6	14	23	SW (219)	68	0	
11/6/2020 20:00	13.6	12	22	SSW (198)	70	0	
11/6/2020 21:00	12.9	12	18	SSW (210)	71	0	
11/6/2020 22:00	12.5	12	19	SSW (208)	72	0	
11/6/2020 23:00	12.3	11	17	SW (222)	72	0	
11/7/2020 0:00	12.1	11	18	SSW (202)	73	0	
11/7/2020 1:00	12	13	20	SSW (192)	74	0	
11/7/2020 2:00	11.2	11	17	SW (227)	75	0	
11/7/2020 3:00	11.1	10	15	SSW (199)	74	0	
11/7/2020 4:00	10.7	9	17	S (190)	76	0	
11/7/2020 5:00	10	9	13	S (177)	77	0	
11/7/2020 6:00	9.6	9	13	SW (217)	79	0	
11/7/2020 7:00	9.7	8	18	SW (217)	78	0	25
11/7/2020 8:00	10.5	11	20	S (188)	75	0	
11/7/2020 9:00	12.2	11	19	SW (235)	73	0	
11/7/2020 10:00	14.6	13	23	S (171)	67	0	
11/7/2020 11:00	16.6	15	26	SSW (213)	61	0	
11/7/2020 12:00	17.6	16	26	S (185)	56	0	
11/7/2020 13:00	18.8	17	28	SSW (207)	50	0	
11/7/2020 14:00	19.2	17	27	SSW (205)	47	0	
11/7/2020 15:00	19.2	15	29	SSW (192)	45	0	
11/7/2020 16:00	18.1	13	21	WSW (238)	51	0	
11/7/2020 17:00	15.9	11	18	S (189)	59	0	
11/7/2020 18:00	14.7	13	18	S (175)	63	0	
11/7/2020 19:00	13.2	13	18	SSE (168)	68	0	
11/7/2020 20:00	13	10	15	S (173)	68	0	
11/7/2020 21:00	11.9	6	11	SSE (163)	71	0	
11/7/2020 22:00	11.1	8	11	SSE (153)	73	0	
11/7/2020 23:00	10.7	8	11	SSE (165)	73	0	
11/8/2020 0:00	10.5	7	10	SE (142)	75	0	
11/8/2020 1:00	10.2	7	11	SSE (157)	76	0	
11/8/2020 2:00	10.1	7	12	S (169)	77	0	
11/8/2020 3:00	10	8	12	S (178)	78	0	
11/8/2020 4:00	10	8	11	S (175)	75	0	
11/8/2020 5:00	10.5	9	12	S (174)	72	0	
11/8/2020 6:00	9.7	9	12	S (171)	76	0	
11/8/2020 7:00	9.4	10	12	S (174)	77	0	0
11/8/2020 8:00	11	8	11	S (177)	74	0	
11/8/2020 9:00	13.6	6	13	SSW (198)	69	0	
11/8/2020 10:00	16.9	7	15	SSW (198)	58	0	
11/8/2020 11:00	18.4	8	15	S (183)	54	0	
11/8/2020 12:00	20.2	8	15	S (174)	49	0	
11/8/2020 13:00	21.3	9	18	SSE (163)	46	0	
11/8/2020 14:00	21.7	9	18	WSW (253)	46	0	
11/8/2020 15:00	21.6	8	16	SSE (163)	46	0	
11/8/2020 16:00	20.9	7	11	S (182)	49	0	
11/8/2020 17:00	18.4	9	16	SE (130)	59	0	
11/8/2020 18:00	16.2	12	16	SSE (150)	56	0	
11/8/2020 19:00	15.2	12	17	SE (146)	59	0	
11/8/2020 20:00	13.6	14	18	SE (140)	63	0	
11/8/2020 21:00	12.6	14	19	SE (132)	68	0	
11/8/2020 22:00	12.6	17	21	SE (134)	65	0	
11/8/2020 23:00	12.4	17	21	ESE (121)	66	0	
11/9/2020 0:00	12.1	16	20	SE (126)	69	0	
11/9/2020 1:00	12.2	16	20	SE (128)	68	0	
11/9/2020 2:00	12.6	17	20	SE (128)	67	0	
11/9/2020 3:00	12.3	17	20	SE (138)	69	0	
11/9/2020 4:00	12	16	19	SE (134)	71	0	
11/9/2020 5:00	11.7	15	17	SE (136)	73	0	
11/9/2020 6:00	11.7	13	17	SE (136)	74	0	
11/9/2020 7:00	11.9	12	17	SE (141)	74	0	0
11/9/2020 8:00	13	14	18	SE (138)	73	0	
11/9/2020 9:00	15.7	14	22	SSE (167)	68	0	
11/9/2020 10:00	18.5	13	18	S (172)	56	0	
11/9/2020 11:00	20.7	13	21	S (181)	51	0	
11/9/2020 12:00	21.9	13	22	S (179)	48	0	
11/9/2020 13:00	22.5	13	20	SSW (200)	46	0	
11/9/2020 14:00	23.2	16	24	S (178)	45	0	
11/9/2020 15:00	23.1	17	27	SSE (160)	49	0	
11/9/2020 16:00	21	12	20	SSE (167)	56	0	
11/9/2020 17:00	18.3	12	18	SE (138)	64	0	
11/9/2020 18:00	16.3	15	19	SE (138)	69	0	
11/9/2020 19:00	15.3	17	22	SSE (152)	73	0	
11/9/2020 20:00	14.9	20	26	SE (141)	74	0	
11/9/2020 21:00	15	18	25	SE (146)	73	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/9/2020 22:00	14.4	16	21	SE (145)	78	0	
11/9/2020 23:00	14.5	17	23	SSE (151)	78	0	
11/10/2020 0:00	14.6	15	19	S (173)	78	0	
11/10/2020 1:00	15.2	14	18	SSE (168)	76	0	
11/10/2020 2:00	16	13	21	S (173)	73	0	
11/10/2020 3:00	16.4	13	18	S (173)	69	0	
11/10/2020 4:00	16	13	19	S (177)	72	0	
11/10/2020 5:00	15.7	14	20	S (179)	74	0	
11/10/2020 6:00	15.9	12	17	S (174)	74	0	
11/10/2020 7:00	16	12	20	S (177)	74	0	0
11/10/2020 8:00	16.9	11	21	SSW (213)	72	0	
11/10/2020 9:00	18.5	14	25	S (175)	68	0	
11/10/2020 10:00	19.8	17	29	SSW (200)	63	0	
11/10/2020 11:00	20.4	17	29	S (182)	62	0	
11/10/2020 12:00	21.6	18	31	S (182)	60	0	
11/10/2020 13:00	22.6	20	34	SSW (206)	59	0	
11/10/2020 14:00	23	21	37	SSE (166)	55	0	
11/10/2020 15:00	22.5	21	39	S (182)	59	0	
11/10/2020 16:00	22	22	34	SSW (209)	59	0	
11/10/2020 17:00	20.9	19	28	SSE (168)	64	0	
11/10/2020 18:00	20	19	28	SSE (162)	65	0	
11/10/2020 19:00	20.1	24	35	SSE (166)	64	0	
11/10/2020 20:00	20.6	25	37	SSE (157)	62	0	
11/10/2020 21:00	20.3	26	37	SSE (168)	63	0	
11/10/2020 22:00	20.1	25	39	SSE (168)	63	0	
11/10/2020 23:00	19.2	23	44	SSW (212)	84	0	
11/11/2020 0:00	17.2	12	23	SW (218)	100	2	
11/11/2020 1:00	16.7	20	37	SSE (152)	100	2	
11/11/2020 2:00	16.8	20	37	SE (134)	100	0	
11/11/2020 3:00	16.7	19	31	SSW (205)	100	0.2	
11/11/2020 4:00	16.9	16	30	S (191)	100	0	
11/11/2020 5:00	16.2	15	26	SW (229)	100	0	
11/11/2020 6:00	14.2	13	25	W (260)	84	0	
11/11/2020 7:00	12.6	15	23	WSW (250)	75	0	4.2
11/11/2020 8:00	11.3	16	27	WNW (288)	82	0	
11/11/2020 9:00	10.6	15	23	WNW (286)	78	0	
11/11/2020 10:00	10.2	19	27	WNW (300)	70	0	
11/11/2020 11:00	9.3	21	28	NW (316)	68	0	
11/11/2020 12:00	8.8	22	31	NW (315)	68	0	
11/11/2020 13:00	8.9	20	29	NW (312)	67	0	
11/11/2020 14:00	8.7	20	30	WNW (298)	63	0	
11/11/2020 15:00	8.3	19	29	NW (317)	65	0	
11/11/2020 16:00	7.2	19	29	NW (318)	70	0	
11/11/2020 17:00	5.7	13	18	NW (312)	75	0	
11/11/2020 18:00	4.7	10	15	NW (309)	77	0	
11/11/2020 19:00	4.7	9	14	WSW (251)	81	0	
11/11/2020 20:00	3.3	7	14	NW (304)	82	0	
11/11/2020 21:00	4.4	15	24	WNW (299)	78	0	
11/11/2020 22:00	4.4	14	26	NW (305)	74	0	
11/11/2020 23:00	4.2	16	24	NW (316)	74	0	
11/12/2020 0:00	3.9	16	25	NW (306)	73	0	
11/12/2020 1:00	3.4	12	22	WNW (296)	75	0	
11/12/2020 2:00	2.3	7	10	WNW (298)	79	0	
11/12/2020 3:00	1.4	5	8	SW (227)	82	0	
11/12/2020 4:00	1.1	4	8	S (185)	82	0	
11/12/2020 5:00	0.5	6	8	WSW (237)	86	0	
11/12/2020 6:00	0.1	7	8	SW (215)	87	0	
11/12/2020 7:00	0	6	8	SSW (210)	87	0	0
11/12/2020 8:00	0.9	5	8	WSW (257)	85	0	
11/12/2020 9:00	3.6	3	7	SSW (205)	83	0	
11/12/2020 10:00	5.7	2	7	WNW (293)	71	0	
11/12/2020 11:00	6.9	1	5	N (354)	64	0	
11/12/2020 12:00	7.8	5	10	E (97)	57	0	
11/12/2020 13:00	8.7	4	10	NNE (22)	53	0	
11/12/2020 14:00	9.3	7	18	ESE (112)	50	0	
11/12/2020 15:00	9	4	11	ENE (77)	50	0	
11/12/2020 16:00	8.2	4	8	NNE (31)	52	0	
11/12/2020 17:00	6.9	3	5	ENE (76)	63	0	
11/12/2020 18:00	5.4	3	7	SSW (203)	71	0	
11/12/2020 19:00	4.4	4	7	NE (41)	79	0	
11/12/2020 20:00	3.1	2	6	E (96)	84	0	
11/12/2020 21:00	2.3	1	3	ESE (111)	86	0	
11/12/2020 22:00	2.4	4	6	ESE (107)	87	0	
11/12/2020 23:00	2.1	6	10	E (85)	90	0	
11/13/2020 0:00	2.3	5	10	ESE (112)	90	0	
11/13/2020 1:00	2.9	6	11	ESE (117)	84	0	
11/13/2020 2:00	3	9	11	E (94)	80	0	
11/13/2020 3:00	2.1	3	7	ENE (67)	87	0	
11/13/2020 4:00	2.5	2	7	NNE (18)	89	0	
11/13/2020 5:00	2.4	3	8	WSW (249)	96	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/13/2020 6:00	2.4	4	7	WSW (243)	97	0	
11/13/2020 7:00	2.9	5	11	S (179)	93	0	0
11/13/2020 8:00	3.7	6	11	WNW (295)	86	0	
11/13/2020 9:00	4.6	9	15	W (278)	87	0	
11/13/2020 10:00	6.1	12	20	SW (235)	79	0	
11/13/2020 11:00	6.7	15	24	WSW (254)	74	0	
11/13/2020 12:00	6.6	17	28	W (270)	76	0	
11/13/2020 13:00	6.3	18	29	W (277)	78	0	
11/13/2020 14:00	6.3	14	25	WNW (292)	75	0	
11/13/2020 15:00	6.7	17	38	NW (314)	73	0	
11/13/2020 16:00	5.7	20	33	WNW (293)	74	0	
11/13/2020 17:00	5.4	12	20	WNW (288)	73	0	
11/13/2020 18:00	5.1	14	25	WNW (293)	73	0	
11/13/2020 19:00	4.5	22	33	WNW (301)	68	0	
11/13/2020 20:00	3.4	19	29	WNW (293)	67	0	
11/13/2020 21:00	3.2	16	26	WNW (289)	64	0	
11/13/2020 22:00	2.9	12	19	W (277)	66	0	
11/13/2020 23:00	2.2	10	18	W (264)	67	0	
11/14/2020 0:00	1.3	13	20	W (266)	67	0	
11/14/2020 1:00	0.9	10	17	WSW (250)	67	0	
11/14/2020 2:00	0.7	12	21	SW (234)	67	0	
11/14/2020 3:00	0.3	10	17	WSW (256)	68	0	
11/14/2020 4:00	-0.3	9	15	SW (235)	71	0	
11/14/2020 5:00	-1	9	15	WSW (251)	74	0	
11/14/2020 6:00	-2.1	6	12	SSW (210)	75	0	
11/14/2020 7:00	-2.6	6	9	SW (222)	77	0	0
11/14/2020 8:00	-1.3	3	6	WSW (249)	75	0	
11/14/2020 9:00	0.9	4	10	SSW (202)	69	0	
11/14/2020 10:00	2.2	9	17	SSW (208)	63	0	
11/14/2020 11:00	3	13	23	S (189)	59	0	
11/14/2020 12:00	3.8	14	23	SW (232)	56	0	
11/14/2020 13:00	4.7	9	17	SSE (149)	54	0	
11/14/2020 14:00	5.1	11	17	S (174)	51	0	
11/14/2020 15:00	5	12	19	SE (140)	56	0	
11/14/2020 16:00	4.3	15	21	SE (132)	69	0	
11/14/2020 17:00	2.7	14	20	SE (124)	79	0	
11/14/2020 18:00	2	15	21	ESE (113)	82	0	
11/14/2020 19:00	1.7	17	23	ESE (113)	82	0	
11/14/2020 20:00	2.5	18	25	SE (132)	82	0	
11/14/2020 21:00	3.6	18	25	ESE (120)	80	0	
11/14/2020 22:00	4.5	19	27	SE (124)	78	0	
11/14/2020 23:00	6.6	26	40	SE (145)	72	0	
11/15/2020 0:00	7	29	39	SE (138)	73	0.4	
11/15/2020 1:00	6.2	29	40	SE (131)	80	0.6	
11/15/2020 2:00	6.1	27	36	SE (129)	85	0.4	
11/15/2020 3:00	6	34	45	ESE (114)	89	1.8	
11/15/2020 4:00	6.6	36	50	SE (135)	90	0.2	
11/15/2020 5:00	7.3	35	50	SSE (148)	87	2.8	
11/15/2020 6:00	7.5	33	44	SE (138)	92	3.4	
11/15/2020 7:00	7.9	36	53	SSE (150)	96	3	12.6
11/15/2020 8:00	8.8	30	45	SSE (164)	100	3	
11/15/2020 9:00	10	30	47	SSE (168)	100	1	
11/15/2020 10:00	10.8	35	50	SSE (165)	100	0.4	
11/15/2020 11:00	11.5	32	51	SSE (154)	100	0	
11/15/2020 12:00	12.2	35	54	SW (218)	95	0.4	
11/15/2020 13:00	9.9	30	70	SW (220)	94	1.6	
11/15/2020 14:00	9.6	45	68	WSW (243)	78	0	
11/15/2020 15:00	7.5	42	71	WSW (240)	72	0	
11/15/2020 16:00	6.9	36	60	SW (227)	71	0	
11/15/2020 17:00	6.5	37	60	WSW (239)	69	0	
11/15/2020 18:00	5.7	41	66	SW (225)	67	0	
11/15/2020 19:00	4.8	33	60	WSW (240)	62	0	
11/15/2020 20:00	4.8	29	44	SW (236)	63	0	
11/15/2020 21:00	4.2	27	51	WSW (252)	82	0	
11/15/2020 22:00	3.6	26	44	WSW (247)	80	0	
11/15/2020 23:00	4	30	49	SW (236)	66	0	
11/16/2020 0:00	4	26	49	W (278)	66	0	
11/16/2020 1:00	3.9	26	45	SW (227)	67	0	
11/16/2020 2:00	3.7	26	44	WSW (240)	65	0	
11/16/2020 3:00	3.5	29	50	WNW (291)	63	0	
11/16/2020 4:00	3.1	26	43	W (272)	65	0	
11/16/2020 5:00	2.9	25	44	WNW (287)	66	0	
11/16/2020 6:00	2.6	23	44	W (273)	65	0	
11/16/2020 7:00	2.4	20	36	WSW (244)	66	0	6.4
11/16/2020 8:00	2.2	20	37	W (273)	66	0	
11/16/2020 9:00	2.3	21	36	W (265)	63	0	
11/16/2020 10:00	2.6	24	40	W (277)	61	0	
11/16/2020 11:00	3.2	22	35	W (266)	61	0	
11/16/2020 12:00	3.8	19	30	WNW (292)	60	0	
11/16/2020 13:00	4.1	16	32	WSW (239)	60	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/16/2020 14:00	4.7	18	30	SW (216)	59	0	
11/16/2020 15:00	5	14	25	WSW (255)	56	0	
11/16/2020 16:00	4.4	10	22	W (266)	61	0	
11/16/2020 17:00	2.8	6	9	WSW (247)	65	0	
11/16/2020 18:00	2.5	5	9	WSW (239)	69	0	
11/16/2020 19:00	2.1	7	13	W (272)	70	0	
11/16/2020 20:00	2.8	15	29	WNW (298)	68	0	
11/16/2020 21:00	2.1	13	23	W (262)	92	0.2	
11/16/2020 22:00	1	11	18	WSW (256)	100	0	
11/16/2020 23:00	1	8	15	WNW (301)	100	0	
11/17/2020 0:00	0.8	8	14	W (265)	100	0	
11/17/2020 1:00	1.1	8	15	NW (305)	100	0	
11/17/2020 2:00	1.3	12	22	NW (305)	91	0	
11/17/2020 3:00	1.1	13	21	NW (318)	78	0	
11/17/2020 4:00	1.3	17	26	WNW (291)	75	0	
11/17/2020 5:00	1.1	23	36	WNW (298)	86	0	
11/17/2020 6:00	1.2	27	41	NW (308)	74	0	
11/17/2020 7:00	1	30	46	WNW (287)	70	0	0.2
11/17/2020 8:00	0.3	32	50	NW (314)	72	0	
11/17/2020 9:00	0.3	32	46	WNW (294)	68	0	
11/17/2020 10:00	-0.2	33	48	NW (306)	67	0	
11/17/2020 11:00	-0.3	34	49	WNW (302)	71	0	
11/17/2020 12:00	-0.5	31	48	WNW (300)	63	0	
11/17/2020 13:00	-0.4	31	48	WNW (294)	60	0	
11/17/2020 14:00	0.1	30	46	W (280)	63	0	
11/17/2020 15:00	-0.5	27	43	WNW (301)	69	0	
11/17/2020 16:00	-0.1	27	42	WNW (301)	68	0	
11/17/2020 17:00	-0.2	27	43	WNW (291)	66	0	
11/17/2020 18:00	-0.6	27	42	WNW (292)	77	0	
11/17/2020 19:00	-0.3	27	37	WNW (289)	64	0	
11/17/2020 20:00	-0.2	24	37	NW (314)	64	0	
11/17/2020 21:00	-0.1	23	36	WNW (297)	63	0	
11/17/2020 22:00	-0.2	24	35	WNW (295)	63	0	
11/17/2020 23:00	-0.5	23	36	NNW (328)	70	0	
11/18/2020 0:00	-0.6	19	29	NW (309)	67	0	
11/18/2020 1:00	-0.5	18	29	NW (306)	67	0	
11/18/2020 2:00	-0.5	16	24	WNW (287)	61	0	
11/18/2020 3:00	-0.5	15	29	W (271)	66	0	
11/18/2020 4:00	-0.8	14	24	NW (309)	72	0	
11/18/2020 5:00	-0.8	13	24	WSW (248)	72	0	
11/18/2020 6:00	-1.5	12	17	SW (230)	75	0	
11/18/2020 7:00	-2.6	12	19	WSW (240)	79	0	0
11/18/2020 8:00	-2.1	11	17	SW (225)	79	0	
11/18/2020 9:00	-0.5	14	22	SW (232)	73	0	
11/18/2020 10:00	0.8	12	22	W (271)	66	0	
11/18/2020 11:00	1.5	13	23	WSW (239)	56	0	
11/18/2020 12:00	2.2	14	25	SSW (210)	56	0	
11/18/2020 13:00	3.1	14	26	SW (216)	57	0	
11/18/2020 14:00	3.5	15	26	S (184)	56	0	
11/18/2020 15:00	3.6	13	23	WSW (241)	59	0	
11/18/2020 16:00	3	12	22	S (191)	63	0	
11/18/2020 17:00	2	11	17	SSE (168)	68	0	
11/18/2020 18:00	1	12	18	SE (141)	74	0	
11/18/2020 19:00	0.7	14	22	SSE (152)	75	0	
11/18/2020 20:00	0.9	15	20	S (173)	75	0	
11/18/2020 21:00	1.5	17	25	SSE (158)	74	0	
11/18/2020 22:00	2.4	19	29	SSE (168)	70	0	
11/18/2020 23:00	2.3	17	24	S (172)	70	0	
11/19/2020 0:00	2.8	18	26	SSE (162)	68	0	
11/19/2020 1:00	3.2	19	27	SSE (164)	67	0	
11/19/2020 2:00	3.1	19	27	S (178)	68	0	
11/19/2020 3:00	3.3	18	25	S (171)	68	0	
11/19/2020 4:00	3.9	18	28	S (177)	65	0	
11/19/2020 5:00	4.7	20	30	S (185)	59	0	
11/19/2020 6:00	5	20	32	S (174)	55	0	
11/19/2020 7:00	5.4	20	33	SSW (192)	53	0	0
11/19/2020 8:00	6	21	37	SSW (204)	54	0	
11/19/2020 9:00	7.4	23	40	SW (218)	52	0	
11/19/2020 10:00	9	25	42	WSW (241)	48	0	
11/19/2020 11:00	10.5	25	43	SW (228)	45	0	
11/19/2020 12:00	12.2	26	44	SSW (211)	41	0	
11/19/2020 13:00	13.1	24	42	SSW (195)	39	0	
11/19/2020 14:00	13.7	22	34	SSW (195)	39	0	
11/19/2020 15:00	14.3	21	35	SW (214)	40	0	
11/19/2020 16:00	14.1	22	35	WSW (240)	40	0	
11/19/2020 17:00	13.9	22	34	SSW (209)	40	0	
11/19/2020 18:00	13.9	22	38	SW (220)	39	0	
11/19/2020 19:00	13.2	19	30	S (190)	45	0	
11/19/2020 20:00	12.2	17	29	SSW (207)	47	0	
11/19/2020 21:00	11.9	19	28	SW (214)	47	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/19/2020 22:00	11.8	21	35	SSW (199)	45	0	
11/19/2020 23:00	11.5	20	31	SW (216)	45	0	
11/20/2020 0:00	11.7	20	32	S (184)	45	0	
11/20/2020 1:00	11.4	19	33	SSW (201)	46	0	
11/20/2020 2:00	11.5	20	31	S (178)	46	0	
11/20/2020 3:00	11.6	20	32	SSW (212)	46	0	
11/20/2020 4:00	11.7	20	32	SW (218)	45	0	
11/20/2020 5:00	11.2	18	28	SSW (206)	49	0	
11/20/2020 6:00	10.4	18	26	SSW (194)	52	0	
11/20/2020 7:00	9.8	16	27	SSW (196)	54	0	0
11/20/2020 8:00	10	17	28	SW (220)	54	0	
11/20/2020 9:00	11.2	19	33	S (188)	53	0	
11/20/2020 10:00	12.9	25	38	SW (221)	49	0	
11/20/2020 11:00	14	25	38	S (190)	47	0	
11/20/2020 12:00	14.9	20	32	SSW (208)	47	0	
11/20/2020 13:00	15.2	16	25	SSW (197)	49	0	
11/20/2020 14:00	15.4	13	22	SSW (210)	52	0	
11/20/2020 15:00	15.1	10	17	SW (226)	57	0	
11/20/2020 16:00	14.6	10	19	WSW (238)	59	0	
11/20/2020 17:00	13.5	11	18	WSW (255)	62	0	
11/20/2020 18:00	12.7	11	19	WNW (286)	61	0	
11/20/2020 19:00	12.6	12	20	WSW (249)	61	0	
11/20/2020 20:00	10.2	19	34	N (5)	86	0	
11/20/2020 21:00	6.9	18	30	NNW (339)	86	0	
11/20/2020 22:00	6.9	18	36	NW (326)	84	0	
11/20/2020 23:00	5.9	17	29	NW (326)	78	0	
11/21/2020 0:00	5	13	26	NW (314)	78	0	
11/21/2020 1:00	4.4	8	14	NNW (329)	77	0	
11/21/2020 2:00	4.9	9	19	N (1)	79	0	
11/21/2020 3:00	4.8	10	20	NNW (329)	79	0	
11/21/2020 4:00	4.6	9	17	NNW (341)	75	0	
11/21/2020 5:00	4.3	9	18	N (9)	73	0	
11/21/2020 6:00	4	7	13	N (355)	72	0	
11/21/2020 7:00	3.9	5	10	N (0)	71	0	0
11/21/2020 8:00	4.1	6	14	NW (323)	69	0	
11/21/2020 9:00	4.5	11	20	WNW (298)	65	0	
11/21/2020 10:00	4.6	14	20	NNW (342)	62	0	
11/21/2020 11:00	4.9	13	20	NW (326)	62	0	
11/21/2020 12:00	4.8	13	21	NW (304)	61	0	
11/21/2020 13:00	4.9	13	22	NW (322)	59	0	
11/21/2020 14:00	5.1	12	21	WNW (297)	56	0	
11/21/2020 15:00	5	9	17	WNW (288)	55	0	
11/21/2020 16:00	4.1	6	11	NNE (31)	66	0	
11/21/2020 17:00	1.9	7	10	ENE (58)	76	0	
11/21/2020 18:00	0.7	6	8	ENE (58)	77	0	
11/21/2020 19:00	0.2	6	9	ENE (60)	78	0	
11/21/2020 20:00	-0.1	9	12	E (82)	77	0	
11/21/2020 21:00	-0.5	9	11	E (94)	81	0	
11/21/2020 22:00	-1.1	9	12	E (94)	80	0	
11/21/2020 23:00	-0.9	10	13	ESE (104)	78	0	
11/22/2020 0:00	-0.6	12	15	E (80)	76	0	
11/22/2020 1:00	-0.6	13	17	E (93)	77	0	
11/22/2020 2:00	-0.5	12	16	E (82)	77	0	
11/22/2020 3:00	-0.2	11	15	ENE (72)	75	0	
11/22/2020 4:00	-0.2	9	13	ENE (78)	77	0	
11/22/2020 5:00	0	11	18	ESE (105)	76	0	
11/22/2020 6:00	0	8	13	E (89)	77	0	
11/22/2020 7:00	-0.3	13	18	ENE (69)	100	0	0
11/22/2020 8:00	0	13	19	ENE (66)	100	0.2	
11/22/2020 9:00	No Meteorological Data Recorded for Time Interval[1]						
11/22/2020 10:00							
11/22/2020 11:00							
11/22/2020 12:00	0	15	23	NE (49)	100	0.8	
11/22/2020 13:00	0	17	24	NE (42)	100	0.6	
11/22/2020 14:00	0	17	26	NE (50)	100	0.8	
11/22/2020 15:00	0.1	15	23	NE (42)	100	0.8	
11/22/2020 16:00	0.1	13	20	NNE (20)	100	0.4	
11/22/2020 17:00	0.1	15	21	NNW (348)	100	0	
11/22/2020 18:00	0.1	13	23	NNW (342)	100	0	
11/22/2020 19:00	0.3	11	21	NNW (337)	100	0.2	
11/22/2020 20:00	0.3	8	16	NNE (13)	100	0	
11/22/2020 21:00	0.4	8	12	NW (307)	100	0	
11/22/2020 22:00	0.5	7	12	NW (304)	100	0	
11/22/2020 23:00	1	10	21	W (264)	100	0.4	
11/23/2020 0:00	1	8	17	WSW (243)	100	0.4	
11/23/2020 1:00	0.5	12	20	WSW (251)	100	0	
11/23/2020 2:00	-0.2	15	27	W (266)	100	0	
11/23/2020 3:00	-0.6	13	23	SW (226)	100	0	
11/23/2020 4:00	-1	12	20	SSW (208)	100	0	
11/23/2020 5:00	-0.8	9	15	SSW (195)	100	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/23/2020 6:00	-0.1	12	21	SW (217)	100	0	
11/23/2020 7:00	0.4	15	24	SW (229)	100	0	4.6
11/23/2020 8:00	0.8	14	21	WSW (258)	100	0.6	
11/23/2020 9:00	1.2	14	22	WSW (254)	100	0	
11/23/2020 10:00	1.6	14	21	WSW (249)	100	0	
11/23/2020 11:00	2.1	13	19	W (265)	100	0	
11/23/2020 12:00	3.2	15	29	NW (308)	100	0	
11/23/2020 13:00	3.9	19	30	NW (304)	80	0	
11/23/2020 14:00	4.3	20	32	WNW (285)	73	0	
11/23/2020 15:00	4	22	34	WNW (298)	68	0	
11/23/2020 16:00	3.6	18	27	NW (314)	68	0	
11/23/2020 17:00	2.8	21	32	WNW (302)	68	0	
11/23/2020 18:00	2.1	17	26	NW (305)	66	0	
11/23/2020 19:00	1.7	16	25	NW (309)	66	0	
11/23/2020 20:00	1	12	22	NW (315)	68	0	
11/23/2020 21:00	0.2	6	11	WNW (286)	71	0	
11/23/2020 22:00	-0.7	5	8	SW (234)	77	0	
11/23/2020 23:00	-1.3	6	8	WSW (252)	78	0	
11/24/2020 0:00	-1.3	5	8	SW (236)	78	0	
11/24/2020 1:00	-1.4	2	7	SW (223)	82	0	
11/24/2020 2:00	-1.5	2	6	N (6)	85	0	
11/24/2020 3:00	-1.5	1	7	WNW (285)	85	0	
11/24/2020 4:00	-1.7	5	8	SW (219)	86	0	
11/24/2020 5:00	-2.3	5	7	SW (227)	90	0	
11/24/2020 6:00	-2.4	4	6	SSW (211)	93	0	
11/24/2020 7:00	-2.1	4	8	SSW (207)	89	0	0.6
11/24/2020 8:00	-1.8	2	5	SSE (153)	87	0	
11/24/2020 9:00	-0.1	4	9	SSE (164)	85	0	
11/24/2020 10:00	1.3	8	13	S (173)	76	0	
11/24/2020 11:00	1.9	12	18	SE (139)	69	0	
11/24/2020 12:00	1.7	14	18	ESE (112)	71	0	
11/24/2020 13:00	2.1	17	26	SE (130)	71	0	
11/24/2020 14:00	2.2	19	25	ESE (114)	73	0	
11/24/2020 15:00	2.2	18	24	ESE (115)	76	0	
11/24/2020 16:00	1.8	19	27	ESE (119)	78	0	
11/24/2020 17:00	1.5	17	24	ESE (110)	80	0	
11/24/2020 18:00	1.3	20	29	ESE (113)	86	0	
11/24/2020 19:00	0.7	22	30	ESE (112)	100	0	
11/24/2020 20:00	0.2	22	32	ESE (118)	100	0	
11/24/2020 21:00	0.4	19	28	ESE (108)	100	0.4	
11/24/2020 22:00	0.8	20	28	ESE (112)	100	0.4	
11/24/2020 23:00	1.2	15	25	ESE (117)	100	0	
11/25/2020 0:00	1.4	15	20	E (98)	100	0.4	
11/25/2020 1:00	1.6	15	21	E (98)	100	0.2	
11/25/2020 2:00	1.9	16	21	ESE (115)	100	0	
11/25/2020 3:00	2.2	14	17	SE (137)	100	0	
11/25/2020 4:00	2.6	13	17	ESE (118)	100	0.2	
11/25/2020 5:00	3	14	18	ESE (120)	100	0	
11/25/2020 6:00	3.6	17	22	SSE (155)	100	0	
11/25/2020 7:00	4.4	13	22	S (171)	100	0	1.6
11/25/2020 8:00	5.1	11	22	SSW (210)	100	0.4	
11/25/2020 9:00	4.9	9	17	SSW (196)	100	0.2	
11/25/2020 10:00	5.4	9	16	S (185)	100	0	
11/25/2020 11:00	6.1	9	19	SSW (197)	100	0	
11/25/2020 12:00	6.3	9	16	SSE (152)	100	0.2	
11/25/2020 13:00	6.8	12	17	SSE (148)	100	0.2	
11/25/2020 14:00	7.3	14	21	SE (136)	100	0.2	
11/25/2020 15:00	7.7	20	30	SE (129)	100	0.8	
11/25/2020 16:00	7.9	23	30	SE (142)	100	0.6	
11/25/2020 17:00	8.1	23	30	SE (136)	100	0.4	
11/25/2020 18:00	8.5	21	29	SSE (160)	100	1.2	
11/25/2020 19:00	8.7	20	28	SE (139)	100	2.8	
11/25/2020 20:00	8.8	18	23	SE (144)	100	1.8	
11/25/2020 21:00	9	17	22	SE (128)	100	0	
11/25/2020 22:00	9	18	24	ESE (119)	100	0	
11/25/2020 23:00	9	19	24	SE (125)	100	1.4	
11/26/2020 0:00	9.2	19	24	SE (130)	100	0.8	
11/26/2020 1:00	9.5	16	23	SE (135)	100	0.6	
11/26/2020 2:00	9.9	15	22	SSW (192)	100	0.6	
11/26/2020 3:00	10.2	10	18	SW (218)	100	0.6	
11/26/2020 4:00	9.8	12	18	WSW (252)	100	0.2	
11/26/2020 5:00	9.4	11	17	WNW (296)	100	0.4	
11/26/2020 6:00	8.9	10	25	WNW (296)	100	0	
11/26/2020 7:00	8.7	16	25	WSW (255)	100	0	13.4
11/26/2020 8:00	8.6	11	18	WSW (253)	100	0	
11/26/2020 9:00	8.8	14	26	W (271)	100	0	
11/26/2020 10:00	8.2	18	30	W (266)	100	0.2	
11/26/2020 11:00	7.6	19	28	W (271)	100	0	
11/26/2020 12:00	7.5	15	24	WSW (257)	100	0	
11/26/2020 13:00	7.7	15	27	WSW (252)	100	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/26/2020 14:00	7.7	13	19	WSW (238)	100	0	
11/26/2020 15:00	7.7	12	20	WSW (256)	100	0	
11/26/2020 16:00	7.5	6	12	W (264)	100	0	
11/26/2020 17:00	7.3	4	7	SW (227)	100	0	
11/26/2020 18:00	7.3	10	19	W (263)	100	0	
11/26/2020 19:00	7.2	13	21	WSW (239)	98	0	
11/26/2020 20:00	6.9	8	13	SSE (167)	96	0	
11/26/2020 21:00	6.7	9	14	SSW (212)	97	0	
11/26/2020 22:00	6.3	8	14	SW (230)	95	0	
11/26/2020 23:00	5.8	7	13	SW (224)	100	0	
11/27/2020 0:00	6.1	12	26	WSW (252)	100	0	
11/27/2020 1:00	6.1	12	23	WSW (238)	91	0	
11/27/2020 2:00	5.9	8	13	WSW (238)	91	0	
11/27/2020 3:00	5.8	8	15	W (261)	92	0	
11/27/2020 4:00	5.6	7	11	WSW (248)	96	0	
11/27/2020 5:00	5.4	6	10	SW (233)	100	0	
11/27/2020 6:00	5.3	10	17	SW (223)	96	0	
11/27/2020 7:00	5.1	11	17	SW (225)	90	0	0.2
11/27/2020 8:00	5.2	9	16	SSW (210)	90	0	
11/27/2020 9:00	5.5	11	21	SW (214)	90	0	
11/27/2020 10:00	5.8	14	23	SW (216)	91	0	
11/27/2020 11:00	6	15	23	SSW (209)	90	0	
11/27/2020 12:00	5.8	14	23	WSW (246)	92	0	
11/27/2020 13:00	5.8	13	24	SW (215)	91	0	
11/27/2020 14:00	5.7	14	22	SSW (210)	92	0	
11/27/2020 15:00	5.6	13	22	SW (225)	94	0	
11/27/2020 16:00	5.4	10	17	S (191)	94	0	
11/27/2020 17:00	5.4	10	17	SSW (200)	95	0	
11/27/2020 18:00	5.2	10	18	SW (232)	100	0	
11/27/2020 19:00	4.9	11	15	WSW (238)	100	0	
11/27/2020 20:00	4.9	9	16	SW (227)	100	0	
11/27/2020 21:00	5	11	17	SW (227)	100	0	
11/27/2020 22:00	5.1	12	18	SW (230)	100	0	
11/27/2020 23:00	4.8	16	36	WNW (282)	100	0	
11/28/2020 0:00	3.6	19	34	WNW (288)	84	0	
11/28/2020 1:00	2.5	10	18	WSW (250)	92	0	
11/28/2020 2:00	2.3	15	25	W (271)	90	0	
11/28/2020 3:00	1.3	14	21	WNW (297)	83	0	
11/28/2020 4:00	0.9	13	19	WNW (297)	86	0	
11/28/2020 5:00	-0.3	9	14	WSW (250)	90	0	
11/28/2020 6:00	-0.8	10	16	W (274)	90	0	
11/28/2020 7:00	-1.2	10	15	W (281)	91	0	0
11/28/2020 8:00	-0.7	10	15	SW (235)	89	0	
11/28/2020 9:00	0.4	14	22	W (269)	82	0	
11/28/2020 10:00	1.7	14	22	W (263)	74	0	
11/28/2020 11:00	3.1	15	24	W (259)	69	0	
11/28/2020 12:00	4.1	16	25	SW (214)	63	0	
11/28/2020 13:00	5.1	16	25	SW (223)	56	0	
11/28/2020 14:00	5.5	18	28	SW (223)	56	0	
11/28/2020 15:00	5.1	16	27	S (190)	61	0	
11/28/2020 16:00	4.3	15	23	SSW (206)	67	0	
11/28/2020 17:00	3.4	16	25	SW (220)	72	0	
11/28/2020 18:00	3	18	28	SSW (192)	73	0	
11/28/2020 19:00	2.7	19	28	SSW (206)	73	0	
11/28/2020 20:00	2.6	19	29	SSW (207)	75	0	
11/28/2020 21:00	2.2	18	26	SSW (201)	80	0	
11/28/2020 22:00	2.2	18	27	SSW (202)	79	0	
11/28/2020 23:00	2.2	17	25	SSW (213)	77	0	
11/29/2020 0:00	1.8	14	23	SSW (207)	78	0	
11/29/2020 1:00	1.9	14	23	SSW (204)	78	0	
11/29/2020 2:00	2.1	15	23	SSW (213)	75	0	
11/29/2020 3:00	2.2	16	22	SSW (204)	74	0	
11/29/2020 4:00	2	14	25	SSW (206)	78	0	
11/29/2020 5:00	1.5	13	21	SW (220)	79	0	
11/29/2020 6:00	1.4	15	23	SSW (202)	80	0	
11/29/2020 7:00	1.3	13	24	SSW (193)	82	0	0
11/29/2020 8:00	1.8	12	22	SSW (200)	82	0	
11/29/2020 9:00	2.8	18	29	S (190)	79	0	
11/29/2020 10:00	4.1	17	28	SSW (196)	76	0	
11/29/2020 11:00	5.4	17	29	S (178)	74	0	
11/29/2020 12:00	7	16	25	S (180)	69	0	
11/29/2020 13:00	8.4	16	32	SSE (166)	65	0	
11/29/2020 14:00	8.4	14	25	SSE (166)	65	0	
11/29/2020 15:00	8.4	14	25	SSW (195)	65	0	
11/29/2020 16:00	7.7	16	27	S (182)	64	0	
11/29/2020 17:00	6.2	12	21	S (190)	69	0	
11/29/2020 18:00	5.6	12	22	SSE (168)	71	0	
11/29/2020 19:00	5.4	12	20	S (174)	71	0	
11/29/2020 20:00	5.8	11	18	S (191)	69	0	
11/29/2020 21:00	5.6	10	18	SSW (212)	69	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
11/29/2020 22:00	5	8	14	SSW (208)	71	0	
11/29/2020 23:00	4.7	6	11	SSW (211)	73	0	
11/30/2020 0:00	4.6	6	11	WSW (255)	75	0	
11/30/2020 1:00	3.9	4	10	WNW (297)	80	0	
11/30/2020 2:00	3.8	4	9	N (352)	81	0	
11/30/2020 3:00	4.2	7	18	N (10)	88	0	
11/30/2020 4:00	5	5	16	NE (39)	89	0	
11/30/2020 5:00	5	12	20	NNW (340)	89	0	
11/30/2020 6:00	4.6	15	31	NNE (16)	92	0.6	
11/30/2020 7:00	4	17	28	N (10)	100	0.8	1.4
11/30/2020 8:00	3.5	19	31	N (354)	100	1.4	
11/30/2020 9:00	3	24	36	N (0)	100	0.4	
11/30/2020 10:00	2.9	24	38	N (354)	100	0.6	
11/30/2020 11:00	2.9	24	37	N (8)	100	0.8	
11/30/2020 12:00	2.9	25	40	NNW (346)	100	1.6	
11/30/2020 13:00	2.9	27	45	N (352)	100	1	
11/30/2020 14:00	3.2	28	47	N (354)	100	0.6	
11/30/2020 15:00	2.8	27	45	N (1)	100	0.4	
11/30/2020 16:00	2.5	25	42	NNW (347)	100	0.2	
11/30/2020 17:00	2.1	25	45	NNW (335)	100	1.2	
11/30/2020 18:00	1.6	23	41	N (351)	100	0.6	
11/30/2020 19:00	1.1	23	37	N (0)	100	0.4	
11/30/2020 20:00	1	23	44	N (5)	100	0.6	
11/30/2020 21:00	0.6	23	41	NNW (337)	100	0.2	
11/30/2020 22:00	0.3	22	37	NNE (12)	100	0	
11/30/2020 23:00	0.3	25	45	NNW (328)	100	0.2	
12/1/2020 0:00	0.1	27	49	NNW (337)	100	0	
12/1/2020 1:00	-0.1	27	45	NNW (348)	100	0	
12/1/2020 2:00	-0.3	29	45	N (0)	100	0	
12/1/2020 3:00	-0.4	27	43	NW (323)	100	0	
12/1/2020 4:00	-0.4	30	43	NNW (332)	100	0	
12/1/2020 5:00	-0.4	31	49	NW (325)	100	0	
12/1/2020 6:00	-0.4	30	49	NW (323)	100	0	
12/1/2020 7:00	-0.3	28	44	NNW (339)	100	0	10.2
12/1/2020 8:00	-0.2	28	43	NW (326)	100	0	
12/1/2020 9:00	-0.1	29	46	N (4)	100	0	
12/1/2020 10:00	-0.1	25	46	NNW (338)	100	0.2	
12/1/2020 11:00	-0.1	24	39	NW (321)	100	1.8	
12/1/2020 12:00	0	22	38	NNW (334)	100	1.4	
12/1/2020 13:00	0	24	43	NW (325)	100	1.4	
12/1/2020 14:00	-0.1	29	47	NNW (332)	100	1	
12/1/2020 15:00	-0.1	29	46	NW (318)	100	0.4	
12/1/2020 16:00	-0.5	27	43	NNW (328)	100	0	
12/1/2020 17:00	-0.7	27	40	N (0)	100	0.2	
12/1/2020 18:00	-0.7	26	39	NW (310)	100	0	
12/1/2020 19:00	-0.4	27	43	NNW (330)	100	0	
12/1/2020 20:00	-0.2	29	49	WNW (300)	100	0	
12/1/2020 21:00	-0.4	35	51	WNW (302)	100	0	
12/1/2020 22:00	-0.6	38	53	NW (306)	100	0	
12/1/2020 23:00	-0.7	37	49	WNW (294)	100	0	
12/2/2020 0:00	-0.7	38	52	WNW (296)	100	0	
12/2/2020 1:00	-0.6	36	51	NW (304)	100	0	
12/2/2020 2:00	-0.6	33	46	NW (321)	100	0	
12/2/2020 3:00	-0.6	31	44	WNW (298)	97	0	
12/2/2020 4:00	-0.4	30	42	NW (311)	95	0	
12/2/2020 5:00	-0.6	32	44	NW (310)	88	0	
12/2/2020 6:00	-0.8	30	40	WNW (299)	83	0	
12/2/2020 7:00	-1	29	39	WNW (295)	73	0	6.4
12/2/2020 8:00	-0.8	24	37	WNW (297)	70	0	
12/2/2020 9:00	-0.1	23	34	W (277)	67	1	
12/2/2020 10:00	0.4	22	34	W (280)	64	0.6	
12/2/2020 11:00	0.8	21	32	WNW (298)	65	0	
12/2/2020 12:00	1.8	23	34	WNW (295)	61	0	
12/2/2020 13:00	2.3	19	35	W (275)	57	0	
12/2/2020 14:00	2.4	14	24	WSW (249)	57	0	
12/2/2020 15:00	2.2	10	15	SW (224)	56	0	
12/2/2020 16:00	1.7	8	14	SSW (197)	60	0	
12/2/2020 17:00	1.1	12	19	S (188)	60	0	
12/2/2020 18:00	1.1	17	23	SSW (211)	70	0	
12/2/2020 19:00	0.5	19	25	SW (214)	73	0	
12/2/2020 20:00	0.2	19	26	SW (233)	73	0	
12/2/2020 21:00	-0.2	15	21	SW (214)	78	0	
12/2/2020 22:00	-0.6	15	20	SW (233)	78	0	
12/2/2020 23:00	-0.7	15	22	SW (228)	76	0	
12/3/2020 0:00	-0.7	15	23	SW (214)	73	0	
12/3/2020 1:00	-0.8	17	23	SW (219)	64	0	
12/3/2020 2:00	-1.3	13	21	S (186)	70	0	
12/3/2020 3:00	-1.5	14	21	SW (216)	72	0	
12/3/2020 4:00	-1.3	19	28	SSW (213)	70	0	
12/3/2020 5:00	-1.7	13	22	SW (220)	74	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/3/2020 6:00	-2.1	10	16	SSW (202)	79	0	
12/3/2020 7:00	-1.9	15	24	SSW (193)	77	0	1.6
12/3/2020 8:00	-1.4	15	25	SW (219)	76	0	
12/3/2020 9:00	-0.2	16	25	SW (216)	71	0	
12/3/2020 10:00	0.8	15	24	SSW (203)	68	0	
12/3/2020 11:00	1.8	15	27	SW (214)	63	0	
12/3/2020 12:00	2.4	18	28	SW (220)	59	0	
12/3/2020 13:00	2.6	14	25	SSE (165)	61	0	
12/3/2020 14:00	2.7	17	26	SSW (198)	64	0	
12/3/2020 15:00	2.6	17	27	SSW (195)	65	0	
12/3/2020 16:00	2.4	17	28	SW (228)	67	0	
12/3/2020 17:00	2.1	17	26	SW (229)	72	0	
12/3/2020 18:00	1.9	17	27	SSW (196)	73	0	
12/3/2020 19:00	1.8	19	29	SSW (212)	76	0	
12/3/2020 20:00	1.6	19	27	SSW (209)	78	0	
12/3/2020 21:00	1.9	19	32	SW (230)	77	0	
12/3/2020 22:00	2.1	20	30	SSW (212)	71	0	
12/3/2020 23:00	2.2	20	30	SW (216)	70	0	
12/4/2020 0:00	2.2	18	28	SSW (199)	70	0	
12/4/2020 1:00	2.1	16	25	SSW (199)	73	0	
12/4/2020 2:00	2	16	27	SSW (207)	74	0	
12/4/2020 3:00	2	18	28	SSW (211)	74	0	
12/4/2020 4:00	1.9	17	27	SSW (199)	76	0	
12/4/2020 5:00	1.9	16	23	SW (223)	77	0	
12/4/2020 6:00	1.9	15	23	SSW (203)	78	0	
12/4/2020 7:00	2.2	14	24	S (183)	76	0	0
12/4/2020 8:00	2.1	12	22	SSW (202)	77	0	
12/4/2020 9:00	2.1	14	23	SW (218)	80	0	
12/4/2020 10:00	1.9	13	23	SSW (200)	85	0.2	
12/4/2020 11:00	1.2	12	18	SW (214)	100	0.8	
12/4/2020 12:00	1.7	11	19	SSW (202)	100	0	
12/4/2020 13:00	2.1	10	18	WSW (244)	95	0	
12/4/2020 14:00	2.4	12	17	S (184)	84	0	
12/4/2020 15:00	2.5	9	15	SW (217)	81	0	
12/4/2020 16:00	2.4	5	9	SW (235)	82	0	
12/4/2020 17:00	2.2	3	6	SW (235)	82	0	
12/4/2020 18:00	2.1	3	5	WSW (258)	83	0	
12/4/2020 19:00	2.2	4	6	WNW (282)	83	0	
12/4/2020 20:00	1.9	1	3	W (274)	85	0	
12/4/2020 21:00	2	3	6	NW (323)	84	0	
12/4/2020 22:00	2.1	5	8	NW (317)	81	0	
12/4/2020 23:00	1.5	8	19	N (10)	100	0	
12/5/2020 0:00	0.8	8	16	NW (324)	100	0	
12/5/2020 1:00	1.9	12	20	NW (313)	94	1	
12/5/2020 2:00	1.9	13	19	WNW (293)	86	0.2	
12/5/2020 3:00	1.7	17	26	WNW (303)	87	0	
12/5/2020 4:00	1.3	19	29	WNW (296)	100	0	
12/5/2020 5:00	0.8	20	30	N (351)	100	0.2	
12/5/2020 6:00	0.8	15	26	NNE (14)	100	0	
12/5/2020 7:00	0.6	13	21	N (354)	100	0	1.4
12/5/2020 8:00	-0.1	11	22	N (6)	100	0	
12/5/2020 9:00	-0.4	14	24	N (0)	100	0	
12/5/2020 10:00	0	9	15	NNW (330)	100	0.8	
12/5/2020 11:00	0.4	15	25	NNW (331)	87	0	
12/5/2020 12:00	0.2	18	28	NW (315)	73	0	
12/5/2020 13:00	0	21	31	NW (314)	75	0	
12/5/2020 14:00	-0.5	19	26	NW (315)	88	0	
12/5/2020 15:00	-0.6	16	30	NW (310)	85	0	
12/5/2020 16:00	-0.5	19	29	NW (323)	79	0	
12/5/2020 17:00	-0.8	15	29	NW (313)	81	0	
12/5/2020 18:00	-0.9	14	25	N (350)	82	0	
12/5/2020 19:00	-1.8	11	18	NNW (334)	84	0	
12/5/2020 20:00	-1.6	9	20	N (353)	91	0	
12/5/2020 21:00	-2.1	12	18	NE (45)	83	0	
12/5/2020 22:00	-2.9	5	14	N (9)	83	0	
12/5/2020 23:00	-3.1	4	11	NNE (30)	84	0	
12/6/2020 0:00	-3	6	12	NW (312)	84	0	
12/6/2020 1:00	-2.9	1	5	N (6)	84	0	
12/6/2020 2:00	-2.8	1	6	NE (42)	83	0	
12/6/2020 3:00	-2.9	0	2	SSW (213)	88	0	
12/6/2020 4:00	-3.2	1	4	SW (218)	100	0	
12/6/2020 5:00	-3.6	1	3	WSW (244)	100	0	
12/6/2020 6:00	-4	4	5	WSW (239)	100	0	
12/6/2020 7:00	-3.7	2	5	WSW (257)	100	0	0.8
12/6/2020 8:00	-3.4	4	9	WSW (248)	100	0	
12/6/2020 9:00	-2.4	7	10	SW (230)	100	0	
12/6/2020 10:00	-2.1	8	11	SW (235)	97	0	
12/6/2020 11:00	-1.9	7	11	WSW (256)	94	0	
12/6/2020 12:00	-1.3	6	9	WNW (292)	90	0	
12/6/2020 13:00	-0.8	3	6	W (262)	88	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/6/2020 14:00	-0.9	3	6	W (267)	90	0	
12/6/2020 15:00	-0.9	3	6	WSW (240)	92	0	
12/6/2020 16:00	-1.2	2	6	S (173)	96	0	
12/6/2020 17:00	-1.3	3	5	SW (227)	98	0	
12/6/2020 18:00	-1.4	4	8	S (187)	100	0	
12/6/2020 19:00	-1.4	4	7	SW (221)	100	0	
12/6/2020 20:00	-1.4	2	5	SSE (166)	100	0	
12/6/2020 21:00	-1.4	3	5	SW (217)	100	0	
12/6/2020 22:00	-1.4	2	6	E (79)	100	0	
12/6/2020 23:00	-1.5	5	10	ESE (106)	100	0	
12/7/2020 0:00	-1.6	2	6	NE (53)	95	0	
12/7/2020 1:00	-1.9	3	5	ESE (104)	90	0	
12/7/2020 2:00	-1.7	3	5	E (87)	88	0	
12/7/2020 3:00	-2	2	5	SSE (148)	88	0	
12/7/2020 4:00	-2.3	3	4	WSW (257)	94	0	
12/7/2020 5:00	-2.5	2	3	SW (224)	100	0	
12/7/2020 6:00	-2.7	2	5	ESE (105)	100	0	
12/7/2020 7:00	-2.5	1	3	E (83)	100	0	0
12/7/2020 8:00	-2.3	0	2	N (354)	100	0	
12/7/2020 9:00	-1.3	1	6	NW (309)	92	0	
12/7/2020 10:00	-0.8	4	8	WNW (287)	75	0	
12/7/2020 11:00	-0.2	5	9	WNW (292)	74	0	
12/7/2020 12:00	-0.1	9	14	NW (321)	90	0	
12/7/2020 13:00	-0.3	6	10	NNW (342)	96	0.2	
12/7/2020 14:00	0.9	12	28	N (350)	82	0	
12/7/2020 15:00	1.2	19	32	NW (326)	67	0	
12/7/2020 16:00	0.6	16	30	NNW (338)	69	0	
12/7/2020 17:00	0.5	20	30	NNW (338)	71	0	
12/7/2020 18:00	0.3	18	32	NNW (346)	71	0	
12/7/2020 19:00	0.4	17	33	NNW (335)	71	0	
12/7/2020 20:00	0.6	15	28	NW (315)	72	0	
12/7/2020 21:00	0.7	18	30	WNW (303)	70	0	
12/7/2020 22:00	0.6	17	25	NW (326)	75	0	
12/7/2020 23:00	0.5	17	25	NW (322)	78	0	
12/8/2020 0:00	0.5	14	23	NW (312)	80	0	
12/8/2020 1:00	0.3	17	26	WNW (292)	81	0	
12/8/2020 2:00	0	13	19	NW (318)	84	0	
12/8/2020 3:00	0.1	12	19	W (280)	83	0	
12/8/2020 4:00	-0.1	13	23	WSW (245)	85	0	
12/8/2020 5:00	-0.5	14	22	W (280)	87	0	
12/8/2020 6:00	-0.8	12	19	WSW (251)	88	0	
12/8/2020 7:00	-1.8	13	20	W (264)	92	0	0.2
12/8/2020 8:00	-2	13	21	W (271)	92	0	
12/8/2020 9:00	-0.8	14	22	W (276)	85	0	
12/8/2020 10:00	-0.6	14	25	WNW (299)	84	0	
12/8/2020 11:00	0.2	19	29	NNW (328)	80	0	
12/8/2020 12:00	0.8	15	26	W (276)	71	0	
12/8/2020 13:00	1	12	17	WSW (249)	70	0	
12/8/2020 14:00	1.1	13	20	WSW (240)	68	0	
12/8/2020 15:00	1	12	22	SSW (204)	70	0	
12/8/2020 16:00	0.9	11	21	SSE (167)	69	0	
12/8/2020 17:00	0.7	14	25	SW (228)	72	0	
12/8/2020 18:00	0.6	15	25	SW (215)	82	0	
12/8/2020 19:00	0.7	15	25	SW (224)	84	0	
12/8/2020 20:00	0.9	18	27	SW (219)	82	0	
12/8/2020 21:00	0.7	18	29	SSW (209)	80	0	
12/8/2020 22:00	0.4	20	30	SW (220)	79	0	
12/8/2020 23:00	0.4	18	32	S (188)	82	0	
12/9/2020 0:00	0.5	18	27	SW (217)	82	0	
12/9/2020 1:00	0.6	19	27	SW (234)	82	0	
12/9/2020 2:00	0.7	19	27	SW (232)	82	0	
12/9/2020 3:00	0.6	16	26	SW (231)	80	0	
12/9/2020 4:00	0.6	17	26	WSW (247)	81	0	
12/9/2020 5:00	0.7	16	24	SW (231)	83	0	
12/9/2020 6:00	0.7	15	24	SW (235)	84	0	
12/9/2020 7:00	0.8	15	22	SW (228)	86	0	0
12/9/2020 8:00	0.9	15	22	WSW (237)	89	0	
12/9/2020 9:00	1	17	23	SW (236)	90	0	
12/9/2020 10:00	1.3	14	23	WSW (246)	88	0	
12/9/2020 11:00	1.6	11	17	SW (232)	89	0	
12/9/2020 12:00	2.3	10	16	WSW (237)	87	0	
12/9/2020 13:00	2.6	11	22	WNW (289)	84	0	
12/9/2020 14:00	2.9	17	28	WNW (296)	82	0	
12/9/2020 15:00	3	14	22	WNW (282)	82	0	
12/9/2020 16:00	3	14	22	WNW (289)	81	0	
12/9/2020 17:00	2.9	10	18	W (278)	82	0	
12/9/2020 18:00	2.6	8	13	NW (311)	84	0	
12/9/2020 19:00	2.7	7	12	WNW (288)	83	0	
12/9/2020 20:00	2.7	7	15	W (266)	82	0	
12/9/2020 21:00	2.5	8	14	W (260)	83	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/9/2020 22:00	2.4	9	13	WSW (251)	83	0	
12/9/2020 23:00	2.2	9	19	W (266)	84	0	
12/10/2020 0:00	2.2	7	13	WSW (247)	86	0	
12/10/2020 1:00	2.2	7	10	WSW (244)	86	0	
12/10/2020 2:00	1.8	6	10	SW (216)	86	0	
12/10/2020 3:00	1	7	10	SW (230)	89	0	
12/10/2020 4:00	0.7	7	10	SW (216)	88	0	
12/10/2020 5:00	0.4	6	11	WSW (252)	88	0	
12/10/2020 6:00	-0.2	4	7	SW (231)	100	0	
12/10/2020 7:00	-0.2	4	7	SSW (197)	100	0	0
12/10/2020 8:00	0	5	9	SW (230)	100	0	
12/10/2020 9:00	1.3	5	8	SSW (195)	100	0	
12/10/2020 10:00	3	7	15	SSW (193)	90	0	
12/10/2020 11:00	4	10	16	SSW (204)	84	0	
44175.500000000	4.9	12	20	S (184)	75	0	
##################	6.2	13	21	SSE (168)	72	0	
44175.583333333	6.6	15	24	SE (131)	71	0	
44175.625000000	5.4	16	22	S (172)	78	0	
44175.666666667	4.5	15	22	SE (143)	82	0	
44175.708333333	3.5	17	22	SE (142)	87	0	
44175.750000000	3.3	17	25	SE (146)	92	0	
44175.791666667	2.9	17	24	SE (134)	96	0	
44175.833333333	2.8	20	27	SE (145)	100	0	
12/10/2020 21:00	3	16	26	SE (133)	100	0	
12/10/2020 22:00	2.9	15	20	SE (132)	100	0	
12/10/2020 23:00	3.3	17	23	SE (130)	100	0	
12/11/2020 0:00	3.6	18	22	SSE (150)	98	0	
12/11/2020 1:00	3.6	17	23	SSE (147)	99	0	
12/11/2020 2:00	3.3	15	20	SSE (156)	100	0	
12/11/2020 3:00	3.5	10	15	SE (139)	98	0	
12/11/2020 4:00	3.5	8	15	SW (224)	94	0	
12/11/2020 5:00	4	7	14	S (186)	90	0	
12/11/2020 6:00	3.8	6	9	SSW (199)	84	0	
12/11/2020 7:00	3.3	5	8	SSW (209)	86	0	0
12/11/2020 8:00	3.1	4	9	SW (221)	87	0	
12/11/2020 9:00	3.6	5	10	SW (221)	89	0	
12/11/2020 10:00	4.9	6	10	W (261)	84	0	
12/11/2020 11:00	5.7	6	13	NW (321)	82	0	
12/11/2020 12:00	6.9	9	15	N (352)	78	0	
12/11/2020 13:00	6.8	11	19	N (350)	81	0	
12/11/2020 14:00	6.7	11	18	NNE (16)	85	0	
12/11/2020 15:00	5.9	12	18	N (7)	86	0	
12/11/2020 16:00	5.2	9	18	N (349)	88	0	
12/11/2020 17:00	4.5	8	13	N (5)	100	0	
12/11/2020 18:00	3.7	7	13	NE (39)	100	0	
12/11/2020 19:00	3.8	5	12	NNW (338)	100	0	
12/11/2020 20:00	3.5	6	11	N (5)	100	0	
12/11/2020 21:00	3.8	9	17	NE (48)	100	0	
12/11/2020 22:00	3.9	9	13	NE (50)	100	0	
12/11/2020 23:00	3.9	11	16	ENE (67)	100	0	
12/12/2020 0:00	4.2	16	22	ENE (71)	100	0	
12/12/2020 1:00	4.2	17	24	E (88)	100	0	
12/12/2020 2:00	4	16	22	ENE (68)	100	0.4	
12/12/2020 3:00	4	16	21	ENE (76)	100	0	
12/12/2020 4:00	4	18	25	ESE (103)	100	0	
12/12/2020 5:00	4.3	22	29	E (99)	100	0.4	
12/12/2020 6:00	4.3	23	37	ESE (110)	100	2.8	
12/12/2020 7:00	4.2	26	42	ESE (113)	100	2	5.6
12/12/2020 8:00	4.2	26	36	ESE (102)	100	1	
12/12/2020 9:00	4.7	31	41	ESE (120)	100	0.4	
12/12/2020 10:00	5.4	31	47	ESE (122)	100	2.8	
12/12/2020 11:00	6	32	44	SE (141)	100	2.4	
12/12/2020 12:00	7.2	32	47	SSE (154)	100	3.2	
12/12/2020 13:00	8.4	26	42	S (179)	100	2.6	
12/12/2020 14:00	9.8	23	43	SE (145)	100	0	
12/12/2020 15:00	10.3	17	40	S (171)	100	1	
12/12/2020 16:00	11	21	35	S (182)	94	0	
12/12/2020 17:00	10.5	24	39	SW (225)	88	0	
12/12/2020 18:00	9.4	30	43	WSW (238)	85	0	
12/12/2020 19:00	8.4	25	43	SSW (211)	94	0	
12/12/2020 20:00	6.6	21	34	WNW (300)	100	0.2	
12/12/2020 21:00	3.2	21	35	WNW (300)	100	0	
12/12/2020 22:00	2.4	19	30	WNW (287)	100	0	
12/12/2020 23:00	1.9	21	33	NW (313)	100	0	
12/13/2020 0:00	1.4	19	28	W (280)	100	0	
12/13/2020 1:00	0.7	18	29	WNW (299)	100	0.2	
12/13/2020 2:00	0.3	17	25	NW (314)	100	0	
12/13/2020 3:00	0.4	17	27	NW (314)	93	0	
12/13/2020 4:00	-0.1	17	28	NW (311)	100	0	
12/13/2020 5:00	-0.6	17	26	WNW (299)	100	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/13/2020 6:00	-0.7	12	19	WNW (297)	100	0	
12/13/2020 7:00	-0.5	13	18	WNW (294)	95	0	13.8
12/13/2020 8:00	-0.5	11	20	NW (321)	95	0	
12/13/2020 9:00	-0.6	13	21	W (276)	93	0	
12/13/2020 10:00	-0.6	12	21	NW (305)	92	0	
12/13/2020 11:00	-0.5	12	23	WNW (284)	94	0	
12/13/2020 12:00	-0.7	12	22	W (268)	88	0	
12/13/2020 13:00	-0.6	11	18	W (279)	89	0	
12/13/2020 14:00	-0.6	11	17	NW (322)	91	0	
12/13/2020 15:00	-0.7	7	14	WNW (286)	94	0	
12/13/2020 16:00	-0.8	9	15	WSW (257)	94	0	
12/13/2020 17:00	-0.8	7	13	SW (229)	93	0	
12/13/2020 18:00	-0.6	5	10	S (176)	92	0	
12/13/2020 19:00	-0.6	3	6	S (177)	93	0	
12/13/2020 20:00	-0.5	4	7	SE (138)	97	0	
12/13/2020 21:00	-0.5	10	13	SSE (157)	97	0	
12/13/2020 22:00	-0.6	7	13	S (172)	98	0	
12/13/2020 23:00	-0.5	8	12	SSE (154)	100	0	
12/14/2020 0:00	-0.5	6	11	S (183)	100	0	
12/14/2020 1:00	-0.4	6	11	S (180)	100	0	
12/14/2020 2:00	-0.3	5	9	S (171)	99	0	
12/14/2020 3:00	-0.2	4	8	SSE (156)	100	0	
12/14/2020 4:00	-0.1	6	10	SSW (206)	100	0	
12/14/2020 5:00	0.1	7	12	SW (226)	100	0	
12/14/2020 6:00	0.4	10	18	SW (234)	95	0	
12/14/2020 7:00	0.6	14	24	W (274)	83	0	0
12/14/2020 8:00	0.3	22	37	WNW (299)	79	0	
12/14/2020 9:00	-0.6	24	36	WNW (296)	75	0	
12/14/2020 10:00	-1.5	23	32	W (276)	77	0	
12/14/2020 11:00	-1.5	22	37	WNW (298)	77	0	
12/14/2020 12:00	-1.6	30	47	NW (304)	74	0	
12/14/2020 13:00	-1.3	25	42	WNW (300)	68	0	
12/14/2020 14:00	-0.7	28	45	WNW (285)	66	0	
12/14/2020 15:00	-0.7	26	44	WNW (301)	64	0	
12/14/2020 16:00	-1	22	34	WNW (286)	63	0	
12/14/2020 17:00	-1.4	21	42	W (281)	71	0	
12/14/2020 18:00	-1.3	21	35	WNW (292)	69	0	
12/14/2020 19:00	-1.9	27	38	WNW (301)	67	0	
12/14/2020 20:00	-2.6	25	38	WNW (282)	58	0	
12/14/2020 21:00	-3	20	32	WNW (296)	63	0	
12/14/2020 22:00	-3.3	19	28	NW (305)	64	0	
12/14/2020 23:00	-3.4	20	29	WNW (303)	66	0	
12/15/2020 0:00	-3.4	16	26	NW (304)	68	0	
12/15/2020 1:00	-3.7	12	18	W (270)	70	0	
12/15/2020 2:00	-3.6	11	18	WNW (291)	71	0	
12/15/2020 3:00	-4.5	13	21	W (280)	77	0	
12/15/2020 4:00	-5.2	11	17	WSW (253)	80	0	
12/15/2020 5:00	-4.9	11	17	WSW (254)	79	0	
12/15/2020 6:00	-4.1	12	20	WNW (297)	78	0	
12/15/2020 7:00	-3.8	15	23	WNW (302)	67	0	0
12/15/2020 8:00	-3.8	12	20	NW (307)	67	0	
12/15/2020 9:00	-3.4	15	25	NW (322)	66	0	
12/15/2020 10:00	-3.2	14	23	NW (320)	62	0	
12/15/2020 11:00	-3	12	19	NW (321)	61	0	
12/15/2020 12:00	-3	9	17	NNW (334)	60	0	
12/15/2020 13:00	-2.9	7	14	WSW (245)	56	0	
12/15/2020 14:00	-2.8	6	14	WSW (243)	61	0	
12/15/2020 15:00	-2.7	5	11	WNW (302)	60	0	
12/15/2020 16:00	-2.9	3	8	WNW (284)	65	0	
12/15/2020 17:00	-3.4	0	2	WNW (290)	71	0	
12/15/2020 18:00	-3.9	1	3	NNW (348)	75	0	
12/15/2020 19:00	-4.3	8	16	E (84)	82	0	
12/15/2020 20:00	-4.5	11	16	E (81)	80	0	
12/15/2020 21:00	-4.6	14	20	ENE (77)	77	0	
12/15/2020 22:00	-4.8	14	21	E (81)	74	0	
12/15/2020 23:00	-4.9	16	22	ENE (71)	73	0	
12/16/2020 0:00	-4.7	18	28	E (98)	70	0	
12/16/2020 1:00	-4.8	19	30	E (79)	74	0	
12/16/2020 2:00	-4.9	20	31	E (92)	76	0	
12/16/2020 3:00	-5.1	26	37	ENE (72)	76	0	
12/16/2020 4:00	-5.4	27	36	ENE (76)	77	0	
12/16/2020 5:00	-5.4	26	37	ENE (75)	73	0	
12/16/2020 6:00	-5.2	23	34	ESE (111)	69	0	
12/16/2020 7:00	-4.7	27	40	E (91)	61	0	0
12/16/2020 8:00	-4.1	28	40	E (87)	60	0	
12/16/2020 9:00	-3.5	29	40	E (100)	62	0	
12/16/2020 10:00	-3.2	28	41	E (91)	65	0	
12/16/2020 11:00	-3.3	28	39	E (84)	67	0	
12/16/2020 12:00	-2.5	26	38	ESE (108)	66	0	
12/16/2020 13:00	-2.5	26	38	E (83)	71	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/16/2020 14:00	-3.4	24	34	E (83)	76	0	
12/16/2020 15:00	-3.3	22	31	ENE (71)	72	0	
12/16/2020 16:00	-3.2	21	29	ENE (65)	65	0	
12/16/2020 17:00	-3.1	20	30	ENE (70)	61	0	
12/16/2020 18:00	-3.2	17	25	ENE (64)	64	0	
12/16/2020 19:00	-3.8	16	28	NE (40)	81	0	
12/16/2020 20:00	-4.5	18	28	E (79)	83	0	
12/16/2020 21:00	-4.6	19	26	NE (55)	82	0	
12/16/2020 22:00	-4.4	19	28	ENE (58)	86	0	
12/16/2020 23:00	-4.4	18	25	ENE (68)	86	0	
12/17/2020 0:00	-4.4	15	22	NE (54)	86	0	
12/17/2020 1:00	-4.2	14	22	NE (50)	85	0	
12/17/2020 2:00	-4.1	15	21	ENE (66)	85	0	
12/17/2020 3:00	-3.9	13	20	ENE (75)	84	0	
12/17/2020 4:00	-3.6	13	18	ENE (63)	85	0	
12/17/2020 5:00	-3.8	13	19	ENE (68)	86	0	
12/17/2020 6:00	-4	10	17	ENE (61)	90	0	
12/17/2020 7:00	-4.2	9	14	ENE (66)	89	0	0
12/17/2020 8:00	-3.9	10	17	ENE (62)	86	0	
12/17/2020 9:00	-3.8	10	15	NE (44)	86	0	
12/17/2020 10:00	-3.7	9	14	NE (56)	86	0	
12/17/2020 11:00	-3.4	9	14	E (84)	84	0	
12/17/2020 12:00	-2.9	9	14	E (82)	84	0	
12/17/2020 13:00	-2.5	10	15	ENE (62)	83	0	
12/17/2020 14:00	-2.5	9	13	ENE (66)	84	0	
12/17/2020 15:00	-2.5	8	13	ENE (70)	85	0	
12/17/2020 16:00	-2.8	7	10	E (79)	89	0	
12/17/2020 17:00	-3.1	7	10	ENE (78)	90	0	
12/17/2020 18:00	-3.3	6	10	E (80)	98	0	
12/17/2020 19:00	-3.4	7	10	ESE (109)	100	0	
12/17/2020 20:00	-3.6	7	11	ENE (76)	100	0	
12/17/2020 21:00	-3.8	8	13	ENE (71)	100	0	
12/17/2020 22:00	-4.2	8	11	E (93)	100	0	
12/17/2020 23:00	-4.3	9	13	ESE (104)	95	0	
12/18/2020 0:00	-4.5	8	12	ESE (113)	88	0	
12/18/2020 1:00	-4.6	8	12	ESE (112)	82	0	
12/18/2020 2:00	-4.8	6	11	SE (134)	82	0	
12/18/2020 3:00	-5	4	6	NE (50)	84	0	
12/18/2020 4:00	-5.2	2	7	ENE (64)	87	0	
12/18/2020 5:00	-5.2	8	16	ESE (105)	84	0	
12/18/2020 6:00	-5.3	10	15	E (85)	83	0	
12/18/2020 7:00	-5	9	16	ESE (114)	83	0	0
12/18/2020 8:00	-4.8	6	10	SSE (154)	83	0	
12/18/2020 9:00	-4.3	5	12	SSE (158)	83	0	
12/18/2020 10:00	-3.8	4	8	SW (234)	83	0.2	
12/18/2020 11:00	-3.2	4	10	SSW (204)	83	0	
12/18/2020 12:00	-2.3	7	12	SE (137)	83	0	
12/18/2020 13:00	-1.7	10	14	S (190)	82	0	
12/18/2020 14:00	-1.1	8	14	S (185)	82	0.2	
12/18/2020 15:00	-1.1	8	15	S (183)	79	0	
12/18/2020 16:00	-1.6	7	12	SSE (160)	82	0	
12/18/2020 17:00	-1.9	9	13	SSE (165)	84	0	
12/18/2020 18:00	-2.4	9	12	SSE (150)	86	0	
12/18/2020 19:00	-2.7	9	12	SSE (154)	89	0	
12/18/2020 20:00	-2.9	8	12	SSE (164)	89	0	
12/18/2020 21:00	-3.1	9	14	SSE (151)	89	0	
12/18/2020 22:00	-3.2	10	14	SSE (165)	87	0	
12/18/2020 23:00	-3.3	11	16	SSE (163)	85	0	
12/19/2020 0:00	-3.3	11	15	SSE (167)	83	0	
12/19/2020 1:00	-3	12	17	SSE (162)	82	0	
12/19/2020 2:00	-2.8	13	18	SSE (147)	83	0	
12/19/2020 3:00	-2.3	13	19	S (177)	83	0	
12/19/2020 4:00	-1.7	17	26	SSE (163)	84	0	
12/19/2020 5:00	-1.3	17	24	SSE (162)	85	0	
12/19/2020 6:00	-0.8	18	28	SSE (160)	85	0	
12/19/2020 7:00	-0.3	21	29	SSE (162)	85	0	0.4
12/19/2020 8:00	0.1	20	30	SSE (156)	85	0	
12/19/2020 9:00	0.5	23	33	SSE (156)	84	0	
12/19/2020 10:00	1	22	33	S (174)	83	0	
12/19/2020 11:00	1.5	19	30	SSE (165)	82	0	
12/19/2020 12:00	1.4	17	25	SSE (164)	84	0	
12/19/2020 13:00	1.4	19	32	S (174)	88	0	
12/19/2020 14:00	0.8	15	24	SSE (167)	100	0.2	
12/19/2020 15:00	1	16	24	S (170)	100	0.2	
12/19/2020 16:00	1	16	25	S (172)	100	0	
12/19/2020 17:00	1	17	26	S (174)	100	0	
12/19/2020 18:00	0.9	17	26	S (189)	100	0	
12/19/2020 19:00	1.1	16	26	S (178)	100	0	
12/19/2020 20:00	1.3	14	23	S (177)	100	0	
12/19/2020 21:00	1.5	13	22	S (172)	100	0.2	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/19/2020 22:00	1.5	11	19	SSW (206)	100	0	
12/19/2020 23:00	1.5	9	16	SSE (158)	100	0	
12/20/2020 0:00	1.6	9	21	SSE (150)	100	0	
12/20/2020 1:00	1.6	11	20	SW (215)	100	0	
12/20/2020 2:00	1.5	10	18	SSW (201)	100	0	
12/20/2020 3:00	1.4	10	16	SSW (203)	100	0	
12/20/2020 4:00	1.3	9	18	SSW (199)	100	0	
12/20/2020 5:00	1.3	10	17	S (189)	100	0	
12/20/2020 6:00	1.4	11	18	SW (214)	100	0	
12/20/2020 7:00	1.4	11	19	SSW (199)	100	0	0.6
12/20/2020 8:00	1.5	14	25	SW (234)	100	0	
12/20/2020 9:00	1.9	12	20	SW (225)	100	0	
12/20/2020 10:00	2.4	12	20	SW (225)	100	0	
12/20/2020 11:00	2.8	12	20	SW (218)	100	0	
12/20/2020 12:00	3	10	17	SSW (205)	100	0	
12/20/2020 13:00	3	6	13	SW (220)	100	0	
12/20/2020 14:00	2.9	7	17	WSW (241)	100	0	
12/20/2020 15:00	2.7	18	32	SSW (199)	100	0	
12/20/2020 16:00	1.7	19	31	SSW (194)	97	0	
12/20/2020 17:00	1.1	14	22	SW (229)	95	0	
12/20/2020 18:00	0.7	14	23	SW (234)	90	0	
12/20/2020 19:00	0.4	15	25	SSW (206)	94	0	
12/20/2020 20:00	-0.2	14	23	SW (216)	90	0	
12/20/2020 21:00	-0.8	9	21	SSW (194)	93	0	
12/20/2020 22:00	-0.6	11	21	SSW (192)	95	0	
12/20/2020 23:00	-0.4	11	18	SSW (213)	100	0	
12/21/2020 0:00	-0.2	11	19	SSE (162)	100	0	
12/21/2020 1:00	-0.4	10	18	S (186)	100	0	
12/21/2020 2:00	0.1	11	19	S (170)	100	0	
12/21/2020 3:00	0.3	11	19	SW (218)	100	0	
12/21/2020 4:00	0.4	10	19	SSW (198)	100	0	
12/21/2020 5:00	0.5	11	19	SSE (152)	100	0	
12/21/2020 6:00	0.5	10	21	S (184)	100	0	
12/21/2020 7:00	0.5	9	17	SSW (212)	100	0	0
12/21/2020 8:00	0.5	10	17	SSW (193)	100	0	
12/21/2020 9:00	0.6	10	17	SSW (207)	100	0	
12/21/2020 10:00	0.9	9	18	SW (230)	100	0	
12/21/2020 11:00	1.3	9	16	SSW (196)	100	0	
12/21/2020 12:00	1.7	10	18	S (185)	100	0	
12/21/2020 13:00	1.9	9	19	SW (214)	100	0	
12/21/2020 14:00	2.1	10	18	SSW (211)	100	0	
12/21/2020 15:00	1.9	10	19	SW (219)	99	0	
12/21/2020 16:00	1.9	8	15	SSW (207)	100	0	
12/21/2020 17:00	1.3	5	10	S (191)	100	0	
12/21/2020 18:00	1.5	3	8	SSE (153)	100	0	
12/21/2020 19:00	1.3	5	8	S (173)	100	0	
12/21/2020 20:00	1.6	4	9	SSW (208)	100	0	
12/21/2020 21:00	1.4	2	4	ESE (111)	100	0	
12/21/2020 22:00	1.2	1	3	ESE (115)	100	0.6	
12/21/2020 23:00	1	0	3	NE (46)	100	0.4	
12/22/2020 0:00	0.7	2	4	NNW (335)	100	0.2	
12/22/2020 1:00	0.7	3	9	N (0)	100	0	
12/22/2020 2:00	0.5	5	8	NW (321)	100	0	
12/22/2020 3:00	0.5	5	8	WNW (303)	100	0.6	
12/22/2020 4:00	0.9	7	18	NW (308)	100	0.4	
12/22/2020 5:00	1.8	15	28	NW (317)	100	0.2	
12/22/2020 6:00	2	15	28	WNW (288)	100	0	
12/22/2020 7:00	1.6	18	26	WNW (299)	100	0	2.4
12/22/2020 8:00	1.2	19	27	WNW (285)	100	0	
12/22/2020 9:00	1.1	21	34	WNW (288)	100	0	
12/22/2020 10:00	1.3	28	46	NNW (328)	89	0	
12/22/2020 11:00	0.9	26	37	W (268)	90	0	
12/22/2020 12:00	0.9	20	31	W (274)	82	0	
12/22/2020 13:00	0.9	21	32	WNW (302)	84	0	
12/22/2020 14:00	0.6	20	31	WNW (298)	85	0	
12/22/2020 15:00	0.6	16	27	WNW (301)	87	0	
12/22/2020 16:00	0.5	15	22	WNW (292)	89	0	
12/22/2020 17:00	0.2	9	19	NW (313)	86	0	
12/22/2020 18:00	0.1	2	7	NE (50)	92	0	
12/22/2020 19:00	-0.1	4	7	SSE (158)	99	0	
12/22/2020 20:00	-0.1	5	11	SSE (162)	98	0	
12/22/2020 21:00	-0.2	10	15	SE (144)	97	0	
12/22/2020 22:00	-0.4	11	16	SSE (155)	97	0	
12/22/2020 23:00	-0.3	14	18	SE (135)	97	0	
12/23/2020 0:00	-0.2	15	23	SE (140)	98	0	
12/23/2020 1:00	0.2	17	25	SE (134)	96	0	
12/23/2020 2:00	0.5	15	21	SE (139)	91	0	
12/23/2020 3:00	0.9	18	25	SE (142)	94	0	
12/23/2020 4:00	1.3	19	28	SSE (150)	98	0	
12/23/2020 5:00	1.8	22	31	SSE (151)	98	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/23/2020 6:00	2.2	24	35	SE (138)	96	0	
12/23/2020 7:00	2.4	25	33	SSE (159)	94	0	0
12/23/2020 8:00	2.5	25	36	SSE (148)	91	0	
12/23/2020 9:00	2.9	25	34	SE (139)	89	0	
12/23/2020 10:00	3.8	28	42	SE (141)	86	0	
12/23/2020 11:00	5.3	33	44	SSE (148)	80	0	
12/23/2020 12:00	6.3	34	49	SSE (167)	67	0	
12/23/2020 13:00	6.7	37	50	SE (145)	61	0	
12/23/2020 14:00	6.7	34	46	SSE (149)	59	0	
12/23/2020 15:00	6.6	33	48	SSE (155)	61	0	
12/23/2020 16:00	6.6	26	38	SSE (158)	63	0	
12/23/2020 17:00	7.2	31	50	SSE (164)	62	0	
12/23/2020 18:00	7.9	32	45	S (171)	65	0	
12/23/2020 19:00	8.5	32	48	S (176)	60	0	
12/23/2020 20:00	8.6	35	52	S (177)	61	0	
12/23/2020 21:00	8.1	31	45	SSE (157)	71	0	
12/23/2020 22:00	8.6	31	46	S (172)	64	0	
12/23/2020 23:00	8.7	30	46	SSE (158)	66	0.2	
12/24/2020 0:00	9.5	34	54	SSE (168)	60	0	
12/24/2020 1:00	9.7	37	53	S (178)	59	0	
12/24/2020 2:00	9	37	56	S (173)	73	0.2	
12/24/2020 3:00	8.2	40	58	S (189)	76	0.2	
12/24/2020 4:00	8.4	39	59	SSE (151)	75	0	
12/24/2020 5:00	8.8	39	60	S (179)	74	0	
12/24/2020 6:00	8.6	38	58	S (176)	81	0	
12/24/2020 7:00	6.5	33	51	SSW (208)	100	0	0.6
12/24/2020 8:00	3	30	46	SW (234)	100	0	
12/24/2020 9:00	0.7	27	49	WSW (241)	94	0	
12/24/2020 10:00	-0.5	26	38	SW (231)	83	0	
12/24/2020 11:00	-0.8	20	31	WSW (239)	81	0	
12/24/2020 12:00	-1.2	18	26	WSW (241)	74	0	
12/24/2020 13:00	-2	16	26	WNW (292)	74	0	
12/24/2020 14:00	-2.9	17	25	NW (311)	71	0	
12/24/2020 15:00	-3.3	16	22	WNW (298)	67	0	
12/24/2020 16:00	-3.4	15	21	NW (308)	68	0	
12/24/2020 17:00	-3.5	15	22	NW (304)	68	0	
12/24/2020 18:00	-3.7	16	21	NW (304)	70	0	
12/24/2020 19:00	-3.7	17	25	WNW (298)	68	0	
12/24/2020 20:00	-3.8	18	28	NW (318)	70	0	
12/24/2020 21:00	-3.6	16	23	NNW (328)	70	0	
12/24/2020 22:00	-3.8	13	25	WNW (287)	86	0	
12/24/2020 23:00	-4.6	12	20	WNW (286)	100	0	
12/25/2020 0:00	-5.2	12	20	WSW (258)	100	0	
12/25/2020 1:00	-5.8	15	22	W (266)	100	0	
12/25/2020 2:00	-5.8	16	24	WSW (253)	100	0	
12/25/2020 3:00	-5.3	19	35	WNW (292)	100	0	
12/25/2020 4:00	-5.3	26	39	WNW (288)	100	0	
12/25/2020 5:00	-5.7	28	41	WNW (288)	100	0	
12/25/2020 6:00	-5.8	29	46	WNW (295)	99	0	
12/25/2020 7:00	-5.8	30	45	WNW (290)	99	0	0
12/25/2020 8:00	-5.3	29	39	NW (309)	98	0	
12/25/2020 9:00	-4.9	24	38	W (276)	97	0	
12/25/2020 10:00	-5	21	31	NW (305)	93	0	
12/25/2020 11:00	-5.4	20	33	WSW (242)	94	0	
12/25/2020 12:00	-5.7	22	39	W (269)	92	0	
12/25/2020 13:00	-6.1	21	32	W (262)	84	0	
12/25/2020 14:00	-6.5	21	31	W (266)	86	0	
12/25/2020 15:00	-6.6	22	32	W (272)	86	0	
12/25/2020 16:00	-6.6	19	27	WSW (253)	88	0	
12/25/2020 17:00	-6.6	21	34	SW (233)	90	0	
12/25/2020 18:00	-6.7	20	27	WSW (247)	90	0	
12/25/2020 19:00	-6.5	20	28	W (265)	91	0	
12/25/2020 20:00	-6.1	21	32	SW (235)	87	0	
12/25/2020 21:00	-5.7	25	47	W (268)	86	0	
12/25/2020 22:00	-5.9	30	43	W (267)	86	0	
12/25/2020 23:00	-6.4	27	40	WSW (243)	88	0	
12/26/2020 0:00	-6.3	22	33	WSW (242)	84	0	
12/26/2020 1:00	-6.3	22	32	SW (228)	88	0	
12/26/2020 2:00	-6.8	29	39	SW (230)	88	0	
12/26/2020 3:00	-6.7	27	36	SW (236)	87	0	
12/26/2020 4:00	-6.5	24	33	WSW (243)	84	0	
12/26/2020 5:00	-6.2	25	33	SW (222)	80	0	
12/26/2020 6:00	-6.2	26	34	WSW (239)	81	0	
12/26/2020 7:00	-6.2	23	35	WSW (240)	80	0	0
12/26/2020 8:00	-6.1	23	31	SW (216)	75	0	
12/26/2020 9:00	-6	23	30	SW (218)	74	0	
12/26/2020 10:00	-5.6	22	31	SW (234)	73	0	
12/26/2020 11:00	-5.3	23	32	SW (232)	73	0	
12/26/2020 12:00	-4.6	22	33	SW (236)	74	0	
12/26/2020 13:00	-4	22	32	W (263)	74	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/26/2020 14:00	-3.7	21	30	W (272)	75	0	
12/26/2020 15:00	-3.3	16	25	WSW (249)	75	0	
12/26/2020 16:00	-3.3	13	20	SW (230)	74	0	
12/26/2020 17:00	-3.8	13	16	WSW (243)	75	0	
12/26/2020 18:00	-3.4	14	20	W (268)	74	0	
12/26/2020 19:00	-3.2	13	19	WSW (253)	71	0	
12/26/2020 20:00	-3.3	13	18	SW (223)	73	0	
12/26/2020 21:00	-3.6	14	19	SW (227)	76	0	
12/26/2020 22:00	-3.7	12	18	SW (226)	77	0	
12/26/2020 23:00	-3.7	12	17	SSW (213)	77	0	
12/27/2020 0:00	-3.7	11	18	SSW (209)	77	0	
12/27/2020 1:00	-3.8	7	13	SSW (207)	78	0	
12/27/2020 2:00	-3.9	5	9	SSE (152)	78	0	
12/27/2020 3:00	-3.9	4	8	S (178)	81	0	
12/27/2020 4:00	-4	7	10	SSE (163)	84	0	
12/27/2020 5:00	-4	9	13	SSE (160)	85	0	
12/27/2020 6:00	-3.9	7	10	SE (138)	84	0	
12/27/2020 7:00	-4.1	7	11	SE (129)	84	0	0
12/27/2020 8:00	-4.3	7	11	SE (130)	84	0	
12/27/2020 9:00	-3.4	12	17	SE (133)	82	0	
12/27/2020 10:00	-2.8	17	24	SE (125)	73	0	
12/27/2020 11:00	-2	19	26	SSE (147)	75	1	
12/27/2020 12:00	-0.9	23	30	SE (142)	78	0	
12/27/2020 13:00	0.1	22	30	SE (134)	77	0.4	
12/27/2020 14:00	0.4	24	33	ESE (112)	77	0	
12/27/2020 15:00	0.5	30	39	SE (129)	76	0	
12/27/2020 16:00	0.8	31	43	SE (130)	77	0	
12/27/2020 17:00	1.7	34	48	SE (128)	78	0	
12/27/2020 18:00	2.1	38	53	SE (144)	78	0	
12/27/2020 19:00	2.6	33	48	SE (144)	80	0.2	
12/27/2020 20:00	2.9	34	45	SE (138)	81	0	
12/27/2020 21:00	3.5	33	47	SSE (151)	79	0.6	
12/27/2020 22:00	3.7	26	40	SSE (158)	80	0.8	
12/27/2020 23:00	3.7	25	36	SSE (161)	83	1	
12/28/2020 0:00	4.3	21	33	SSW (198)	85	1	
12/28/2020 1:00	4.3	24	39	SW (215)	86	0.6	
12/28/2020 2:00	3.6	18	30	SSW (212)	96	0.2	
12/28/2020 3:00	3.6	16	26	SW (219)	100	0.2	
12/28/2020 4:00	3.7	24	38	WSW (251)	100	0.6	
12/28/2020 5:00	3.6	30	47	WNW (298)	100	0	
12/28/2020 6:00	1.3	29	50	W (269)	96	0	
12/28/2020 7:00	0.4	30	54	W (277)	84	0	6.6
12/28/2020 8:00	0.3	26	40	WNW (300)	81	0	
12/28/2020 9:00	0.4	23	38	W (278)	80	0	
12/28/2020 10:00	0.4	20	37	WSW (258)	78	0	
12/28/2020 11:00	0.5	20	36	WNW (290)	76	0	
12/28/2020 12:00	0.1	21	34	W (275)	82	0	
12/28/2020 13:00	-0.1	20	40	WNW (288)	79	0	
12/28/2020 14:00	-0.2	23	35	W (280)	71	0	
12/28/2020 15:00	0.1	23	39	WNW (296)	59	0	
12/28/2020 16:00	-0.4	18	35	W (264)	78	0	
12/28/2020 17:00	-1.6	13	26	W (265)	80	0	
12/28/2020 18:00	-2.2	12	19	W (261)	80	0	
12/28/2020 19:00	-2.2	14	23	SW (233)	74	0	
12/28/2020 20:00	-2.7	14	25	W (268)	71	0	
12/28/2020 21:00	-2.8	18	27	W (276)	66	0	
12/28/2020 22:00	-2.8	17	29	W (280)	66	0	
12/28/2020 23:00	-3	16	28	WNW (286)	65	0	
12/29/2020 0:00	-3.9	16	27	W (269)	71	0	
12/29/2020 1:00	-4.2	18	25	W (263)	72	0	
12/29/2020 2:00	-4.4	17	26	WSW (254)	69	0	
12/29/2020 3:00	-4.2	15	23	W (259)	71	0	
12/29/2020 4:00	-4.1	14	23	W (276)	77	0	
12/29/2020 5:00	-4.4	17	29	NW (308)	86	0	
12/29/2020 6:00	-3.8	18	27	WNW (284)	69	0	
12/29/2020 7:00	-4.3	18	31	NW (304)	65	0	0
12/29/2020 8:00	-4.5	17	27	WNW (303)	67	0	
12/29/2020 9:00	-4.4	15	24	NW (320)	64	0	
12/29/2020 10:00	-4.2	13	21	WNW (289)	64	0	
12/29/2020 11:00	-4	10	19	W (260)	60	0	
12/29/2020 12:00	-4	6	14	WNW (301)	60	0	
12/29/2020 13:00	-3.8	4	8	SW (214)	58	0	
12/29/2020 14:00	-3.4	2	8	NE (37)	56	0	
12/29/2020 15:00	-3.2	4	9	SE (136)	61	0	
12/29/2020 16:00	-3.7	7	10	ESE (115)	66	0	
12/29/2020 17:00	-4.4	7	11	ESE (118)	69	0	
12/29/2020 18:00	-4.8	8	11	SE (125)	72	0	
12/29/2020 19:00	-4.6	10	13	SE (145)	75	0	
12/29/2020 20:00	-4.2	13	18	SSE (150)	75	0	
12/29/2020 21:00	-4	14	19	SE (132)	75	0	

DATE (EST)	Temperature (°C) - 60 minutes	Wind Speed (km/h) - 60 minutes	Wind Gust (km/h) - 60 minutes	Wind Direction - 60 minutes	Relative Humidity (%) - 60 minutes	Precipitation (mm) - 60 minutes	Precipitation (mm) - 24 hours
12/29/2020 22:00	-3.6	15	20	SE (128)	75	0	
12/29/2020 23:00	-3	16	22	SE (130)	77	0	
12/30/2020 0:00	-2.5	18	26	SE (131)	77	0	
12/30/2020 1:00	-2.4	22	33	SSE (156)	100	0	
12/30/2020 2:00	-2.6	24	32	SE (135)	100	0	
12/30/2020 3:00	-2.2	28	41	SE (129)	100	0	
12/30/2020 4:00	-2	35	47	SE (138)	98	0	
12/30/2020 5:00	-1.4	37	50	SSE (151)	96	0	
12/30/2020 6:00	-0.6	33	45	SSE (155)	86	0	
12/30/2020 7:00	0.1	35	50	SE (143)	73	0	0
12/30/2020 8:00	0.8	27	39	SSE (159)	81	0	
12/30/2020 9:00	1.3	23	35	S (182)	84	1.4	
12/30/2020 10:00	2	24	38	S (174)	89	1.2	
12/30/2020 11:00	2.4	23	37	SSW (198)	95	0.4	
12/30/2020 12:00	3	22	38	SSE (166)	100	0.6	
12/30/2020 13:00	3.2	24	41	SSW (201)	100	0.2	
12/30/2020 14:00	3.2	19	29	SSW (212)	100	0	
12/30/2020 15:00	3.3	18	30	SW (229)	100	0.2	
12/30/2020 16:00	3.6	17	27	SSW (195)	100	0.2	
12/30/2020 17:00	3.6	17	24	WSW (237)	100	0	
12/30/2020 18:00	3.4	16	28	W (264)	100	0	
12/30/2020 19:00	2.6	20	33	W (276)	96	0	
12/30/2020 20:00	1.9	22	33	W (264)	81	0	
12/30/2020 21:00	1.3	23	41	WNW (287)	81	0	
12/30/2020 22:00	0.4	27	41	WNW (290)	73	0	
12/30/2020 23:00	-0.1	24	45	W (275)	72	0	
12/31/2020 0:00	-0.2	26	39	WNW (293)	70	0	
12/31/2020 1:00	-0.3	23	38	NW (305)	70	0	
12/31/2020 2:00	-0.8	21	29	WNW (282)	73	0	
12/31/2020 3:00	-1.1	21	31	WNW (287)	71	0	
12/31/2020 4:00	-1.4	22	33	WNW (300)	71	0	
12/31/2020 5:00	-2	21	32	WNW (297)	67	0	
12/31/2020 6:00	-2.3	14	25	WNW (289)	63	0	
12/31/2020 7:00	-2.4	12	22	W (267)	68	0	4.2
12/31/2020 8:00	-2.4	9	15	WSW (256)	71	0	
12/31/2020 9:00	-1.9	10	16	WSW (258)	71	0	
12/31/2020 10:00	-1.1	12	18	W (278)	68	0	
12/31/2020 11:00	-0.9	11	18	W (273)	68	0	
12/31/2020 12:00	-0.6	10	18	WNW (282)	67	0	
12/31/2020 13:00	-0.4	9	15	NW (305)	65	0	
12/31/2020 14:00	-0.3	7	12	NW (315)	65	0	
12/31/2020 15:00	-0.4	7	13	N (352)	65	0	
12/31/2020 16:00	-0.3	3	9	NNE (17)	69	0	
12/31/2020 17:00	-0.6	2	4	S (171)	72	0	
12/31/2020 18:00	-1	3	8	S (183)	73	0	
12/31/2020 19:00	-1.8	5	8	SSE (150)	73	0	
12/31/2020 20:00	-1.7	6	10	SW (225)	74	0	
12/31/2020 21:00	-2.2	3	6	SSW (206)	76	0	
12/31/2020 22:00	-2	2	5	S (170)	78	0	
12/31/2020 23:00	-3	4	7	SE (137)	84	0	

Notes:

[1] To maintain conservatism, this interval with unavailable meteorological data remained included in noise monitoring analysis. The sound level for this interval was analyzed with the assumption that all weather parameters remained within suitable limits.

ATTACHMENT C



Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/06/19	0	20	9	0	0	0	0	0	0	0	0	0	0	29
01:00	0	2	0	0	0	0	0	1	0	0	0	0	0	3
02:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
03:00	0	5	2	0	1	0	0	0	0	0	2	0	0	10
04:00	0	6	1	0	1	0	0	1	0	0	0	0	0	9
05:00	0	16	20	1	1	0	0	2	0	0	0	0	0	40
06:00	**1**	88	88	0	13	0	0	6	0	9	1	1	3	210
07:00	0	139	123	**5**	12	2	0	9	4	12	1	0	**7**	314
08:00	0	**185**	125	3	13	5	**1**	12	**10**	16	**4**	0	6	**380**
09:00	0	150	130	5	21	2	0	13	9	**17**	4	**3**	5	359
10:00	0	135	131	3	**30**	6	0	**17**	6	9	2	2	1	342
11:00	0	151	**148**	2	21	**7**	0	12	7	12	2	1	5	368
12 PM	0	189	143	1	16	4	0	11	**9**	**20**	3	2	3	401
13:00	0	185	141	**9**	**26**	4	0	12	9	13	2	1	**6**	408
14:00	0	204	157	6	19	4	**1**	16	4	9	**5**	**3**	5	433
15:00	0	214	181	8	14	**5**	0	15	6	5	5	0	3	**456**
16:00	**2**	201	**192**	5	18	1	0	**17**	0	2	2	0	0	440
17:00	0	**228**	158	2	8	0	0	9	1	0	1	0	0	407
18:00	0	194	124	1	2	0	0	8	1	0	1	0	0	331
19:00	0	146	85	1	3	0	0	4	1	1	1	0	0	242
20:00	0	101	41	0	2	0	0	2	0	0	1	0	0	147
21:00	0	61	35	0	0	0	0	1	0	0	1	0	0	98
22:00	0	52	26	0	1	0	0	0	0	0	0	0	0	79
23:00	0	38	17	0	0	0	0	1	0	0	0	0	0	56
Day Total	3	2712	2079	52	222	40	2	169	67	125	38	13	44	5566
Percent	0.1%	48.7%	37.4%	0.9%	4.0%	0.7%	0.0%	3.0%	1.2%	2.2%	0.7%	0.2%	0.8%	
AM Peak	06:00	08:00	11:00	07:00	10:00	11:00	08:00	10:00	08:00	09:00	08:00	09:00	07:00	08:00
Vol.	1	185	148	5	30	7	1	17	10	17	4	3	7	380
PM Peak	16:00	17:00	16:00	13:00	13:00	15:00	14:00	16:00	12:00	12:00	14:00	14:00	13:00	15:00
Vol.	2	228	192	9	26	5	1	17	9	20	5	3	6	456

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/07/19	0	24	10	0	0	0	0	5	1	0	0	0	0	40
01:00	0	6	7	0	0	0	0	0	0	0	0	0	0	13
02:00	0	8	6	0	0	0	0	0	0	0	0	0	0	14
03:00	0	2	2	1	0	0	0	0	0	0	0	0	0	5
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
05:00	1	7	6	0	1	0	0	1	0	0	1	0	0	17
06:00	0	34	23	0	4	**1**	0	0	1	4	0	0	1	68
07:00	0	59	48	1	5	0	0	3	3	5	3	**1**	**3**	131
08:00	1	101	91	**2**	2	1	0	6	**6**	6	**6**	0	2	224
09:00	1	152	141	0	6	0	0	3	3	**10**	3	0	0	319
10:00	0	168	**165**	1	**9**	1	0	**9**	1	6	2	0	1	**363**
11:00	**2**	**195**	133	2	4	1	0	5	0	1	6	1	0	350
12 PM	0	**176**	**152**	0	6	0	0	3	**1**	0	**2**	0	0	**340**
13:00	0	176	123	0	**9**	**1**	0	1	0	**1**	1	0	0	312
14:00	**1**	176	111	1	6	0	0	**5**	0	0	0	0	0	300
15:00	1	167	110	**3**	1	0	0	3	1	0	0	0	0	286
16:00	0	146	120	0	3	0	0	5	0	0	0	0	0	274
17:00	0	117	106	3	1	0	0	2	0	0	2	0	0	231
18:00	0	130	69	1	1	0	0	2	0	0	0	0	0	203
19:00	0	101	69	0	5	0	0	2	0	0	0	0	0	177
20:00	0	120	72	0	0	1	0	0	0	0	0	**1**	0	194
21:00	0	64	38	0	2	0	0	0	0	0	0	0	0	104
22:00	0	56	27	0	1	0	0	0	0	0	0	0	0	84
23:00	0	22	17	0	0	0	0	0	0	0	0	0	0	39
Day Total	7	2207	1646	15	67	6	0	55	17	33	26	3	7	4089
Percent	0.2%	54.0%	40.3%	0.4%	1.6%	0.1%	0.0%	1.3%	0.4%	0.8%	0.6%	0.1%	0.2%	
AM Peak	11:00	11:00	10:00	08:00	10:00	06:00		10:00	08:00	09:00	08:00	07:00	07:00	10:00
Vol.	2	195	165	2	9	1		9	6	10	6	1	3	363
PM Peak	14:00	12:00	12:00	15:00	13:00	13:00		14:00	12:00	13:00	12:00	20:00		12:00
Vol.	1	176	152	3	9	1		5	1	1	2	1		340

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/08/19	0	24	10	0	0	0	0	0	0	0	0	0	0	34
01:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
02:00	0	2	3	0	0	0	0	0	0	0	0	0	0	5
03:00	0	4	1	0	0	0	0	0	0	0	0	0	0	5
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	0	1	1	1	0	0	0	1	0	0	0	0	0	4
06:00	0	10	5	0	0	0	0	0	0	0	0	0	0	15
07:00	0	25	17	1	0	0	0	0	0	0	0	0	0	43
08:00	0	50	48	0	1	0	0	3	0	0	0	0	0	102
09:00	**1**	107	72	0	0	0	0	2	0	0	**1**	0	0	183
10:00	0	125	99	**2**	1	0	0	8	0	0	0	0	0	235
11:00	0	**194**	**132**	2	**3**	**1**	0	**9**	0	**1**	0	0	0	**342**
12 PM	0	168	**138**	3	2	0	0	**9**	0	**1**	**1**	0	0	322
13:00	0	193	118	**4**	1	0	0	7	0	0	0	0	0	323
14:00	0	215	137	1	**3**	0	0	4	0	0	0	0	0	360
15:00	0	**222**	132	2	2	0	0	8	0	0	0	0	0	**366**
16:00	0	155	108	1	2	0	0	5	0	0	0	0	0	271
17:00	0	129	84	1	3	0	0	6	0	0	0	0	0	223
18:00	0	116	77	1	3	0	0	4	0	0	0	0	0	201
19:00	0	123	77	0	2	0	0	1	0	0	0	0	0	203
20:00	0	68	29	2	3	0	0	3	0	0	0	0	0	105
21:00	0	65	31	0	0	0	0	0	0	0	0	0	0	96
22:00	0	22	13	0	0	0	0	0	0	0	0	0	0	35
23:00	0	10	3	0	0	0	0	0	0	0	0	0	0	13
Day Total	1	2033	1336	21	26	1	0	70	0	2	2	0	0	3492
Percent	0.0%	58.2%	38.3%	0.6%	0.7%	0.0%	0.0%	2.0%	0.0%	0.1%	0.1%	0.0%	0.0%	
AM Peak	09:00	11:00	11:00	10:00	11:00	11:00		11:00		11:00	09:00			11:00
Vol.	1	194	132	2	3	1		9		1	1			342
PM Peak		15:00	12:00	13:00	14:00			12:00		12:00	12:00			15:00
Vol.		222	138	4	3			9		1	1			366

Ontario Traffic, Inc.
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Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/09/19	0	3	3	1	0	0	0	0	0	0	0	0	0	7
01:00	0	6	5	1	0	0	0	0	0	0	0	0	0	12
02:00	0	0	2	0	0	1	0	1	0	0	0	0	0	4
03:00	0	2	2	1	0	1	0	0	0	0	0	0	0	6
04:00	0	6	18	0	0	0	0	2	0	0	0	0	0	26
05:00	0	15	26	0	5	0	0	0	0	0	0	0	0	46
06:00	0	83	82	1	10	1	1	4	1	7	1	0	3	194
07:00	0	**179**	136	1	5	0	0	9	9	6	2	**2**	4	353
08:00	0	179	**148**	3	16	4	0	10	8	17	3	0	**6**	**394**
09:00	**1**	166	119	**9**	14	5	**2**	**17**	7	6	**4**	0	4	354
10:00	1	143	125	5	11	2	0	11	**10**	13	4	0	6	331
11:00	0	170	126	2	**23**	**7**	0	15	8	**22**	4	0	5	382
12 PM	**1**	151	120	4	14	4	0	**16**	4	11	2	0	**6**	333
13:00	0	147	112	**7**	11	4	0	10	**16**	10	**8**	**2**	5	332
14:00	1	166	116	6	**17**	**6**	**2**	4	8	**16**	3	2	5	352
15:00	1	175	129	7	9	5	0	11	6	13	3	1	4	364
16:00	0	195	124	7	4	0	0	8	1	5	1	0	0	345
17:00	0	**203**	**180**	5	11	0	0	3	1	1	4	0	0	**408**
18:00	0	129	93	3	4	0	0	2	0	0	1	1	0	233
19:00	0	90	69	0	4	0	0	0	1	0	2	0	1	167
20:00	0	58	50	0	3	1	0	1	0	0	0	0	0	113
21:00	0	50	29	0	1	1	0	1	1	0	0	0	0	83
22:00	0	38	26	0	1	0	0	0	0	0	0	0	0	65
23:00	0	19	14	1	1	0	0	0	0	0	0	0	0	35
Day Total	5	2373	1854	64	164	42	5	125	81	127	42	8	49	4939
Percent	0.1%	48.0%	37.5%	1.3%	3.3%	0.9%	0.1%	2.5%	1.6%	2.6%	0.9%	0.2%	1.0%	
AM Peak	09:00	07:00	08:00	09:00	11:00	11:00	09:00	09:00	10:00	11:00	09:00	07:00	08:00	08:00
Vol.	1	179	148	9	23	7	2	17	10	22	4	2	6	394
PM Peak	12:00	17:00	17:00	13:00	14:00	14:00	14:00	12:00	13:00	14:00	13:00	13:00	12:00	17:00
Vol.	1	203	180	7	17	6	2	16	16	16	8	2	6	408

Ontario Traffic, Inc.
17705 Leslie St., Unit 6
Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/10/19	0	10	4	0	0	0	0	0	0	0	0	0	0	14
01:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
03:00	0	6	4	2	0	0	0	0	0	0	0	0	0	12
04:00	0	7	15	0	1	0	0	0	0	0	0	0	0	23
05:00	0	22	22	0	5	0	0	3	0	0	0	0	0	52
06:00	0	82	89	2	4	1	0	3	4	5	4	1	4	199
07:00	0	171	132	4	10	1	0	10	9	10	4	2	**7**	360
08:00	0	**202**	**141**	5	15	4	**1**	11	**11**	15	9	**3**	5	**422**
09:00	0	153	134	**10**	**24**	4	0	**13**	7	12	5	1	6	369
10:00	**1**	149	112	4	13	6	1	9	9	**16**	4	1	4	329
11:00	0	179	132	2	24	**8**	0	11	10	16	**13**	0	6	401
12 PM	0	145	130	3	**18**	2	0	**18**	**15**	22	3	0	**4**	360
13:00	0	148	134	**7**	18	**12**	0	15	5	**24**	6	1	4	374
14:00	0	186	147	3	14	4	0	13	7	12	**7**	0	1	394
15:00	**1**	188	137	4	11	3	0	9	8	14	4	**2**	3	384
16:00	0	190	172	5	12	0	**1**	11	3	4	1	0	0	399
17:00	0	**193**	**188**	4	15	0	0	7	2	0	1	0	0	**410**
18:00	0	108	122	3	4	0	0	5	1	0	0	0	0	243
19:00	0	83	69	1	3	0	0	1	1	0	0	0	0	158
20:00	0	74	59	1	2	0	0	2	0	0	0	0	0	138
21:00	0	49	38	0	1	1	0	0	0	0	0	0	0	89
22:00	0	24	25	0	0	0	0	1	0	0	0	0	0	50
23:00	0	27	12	0	0	0	0	0	0	0	0	0	0	39
Day Total	2	2400	2019	60	194	46	3	142	92	150	61	11	44	5224
Percent	0.0%	45.9%	38.6%	1.1%	3.7%	0.9%	0.1%	2.7%	1.8%	2.9%	1.2%	0.2%	0.8%	
AM Peak	10:00	08:00	08:00	09:00	09:00	11:00	08:00	09:00	08:00	10:00	11:00	08:00	07:00	08:00
Vol.	1	202	141	10	24	8	1	13	11	16	13	3	7	422
PM Peak	15:00	17:00	17:00	13:00	12:00	13:00	16:00	12:00	12:00	13:00	14:00	15:00	12:00	17:00
Vol.	1	193	188	7	18	12	1	18	15	24	7	2	4	410

Ontario Traffic, Inc.
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Newmarket, Ontario L3Y 3E3
Tel: (905) 898-7711 Fax: (905) 898-3664

Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/11/19	0	8	1	0	0	0	0	0	0	0	0	0	0	9
01:00	0	1	3	1	1	0	0	0	0	0	0	0	0	6
02:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	7	1	0	2	0	0	0	0	0	0	0	0	10
04:00	0	3	5	0	0	0	0	1	0	0	0	0	0	9
05:00	0	20	23	0	1	0	0	1	2	0	0	1	0	48
06:00	0	97	78	1	4	0	0	4	3	5	3	1	7	203
07:00	0	156	**115**	3	9	2	0	**13**	7	8	1	3	6	323
08:00	5	**157**	109	**6**	9	7	1	7	9	19	**8**	**4**	14	**355**
09:00	5	142	104	1	7	11	**2**	7	7	**30**	4	2	18	340
10:00	**10**	132	90	1	7	11	1	9	4	25	2	0	**27**	319
11:00	7	137	107	0	**10**	**13**	1	8	**10**	30	3	1	16	343
12 PM	8	157	95	0	2	**24**	**1**	11	**10**	**48**	4	0	18	378
13:00	3	161	100	**5**	6	21	0	9	4	33	**11**	1	**20**	374
14:00	3	141	100	0	**8**	12	0	15	5	21	4	1	16	326
15:00	5	187	133	2	6	16	1	**20**	10	27	5	1	16	**429**
16:00	**9**	**211**	121	1	8	7	1	10	8	20	8	0	7	411
17:00	9	206	**137**	0	3	10	0	8	3	11	5	0	3	395
18:00	3	121	92	0	4	1	0	2	4	1	3	**2**	1	234
19:00	1	96	59	0	1	2	0	2	2	2	1	0	3	169
20:00	0	68	44	1	2	0	0	0	1	0	1	0	0	117
21:00	0	61	27	0	0	1	0	0	0	0	0	0	0	89
22:00	1	34	13	0	0	0	0	0	0	1	0	0	0	49
23:00	1	22	12	0	0	0	0	1	0	0	0	1	0	37
Day Total	70	2325	1571	22	90	138	8	128	89	281	63	18	172	4975
Percent	1.4%	46.7%	31.6%	0.4%	1.8%	2.8%	0.2%	2.6%	1.8%	5.6%	1.3%	0.4%	3.5%	
AM Peak	10:00	08:00	07:00	08:00	11:00	11:00	09:00	07:00	11:00	09:00	08:00	08:00	10:00	08:00
Vol.	10	157	115	6	10	13	2	13	10	30	8	4	27	355
PM Peak	16:00	16:00	17:00	13:00	14:00	12:00	12:00	15:00	12:00	12:00	13:00	18:00	13:00	15:00
Vol.	9	211	137	5	8	24	1	20	10	48	11	2	20	429

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Site Code: 4
Station ID: C73
Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
Date End: 13-Sep-19
Date Start: 06-Sep-19

NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/12/19	0	8	3	0	0	0	0	0	1	1	0	0	0	13
01:00	1	2	1	0	1	0	0	0	1	0	0	0	0	6
02:00	0	0	1	2	0	0	0	0	1	0	0	0	0	4
03:00	1	10	5	0	0	1	0	0	0	0	0	0	0	17
04:00	0	9	11	0	0	0	0	0	1	1	0	0	0	22
05:00	4	33	42	1	4	0	0	0	1	0	0	0	1	86
06:00	11	96	85	2	9	5	2	3	5	12	**4**	1	18	253
07:00	4	**170**	93	2	8	7	1	6	5	20	2	2	24	344
08:00	**12**	149	111	2	**16**	14	1	**13**	7	**49**	2	2	**25**	**403**
09:00	3	137	**115**	**4**	14	14	0	6	**8**	25	1	0	13	340
10:00	6	123	94	0	7	16	1	13	7	26	3	3	12	311
11:00	11	128	103	1	6	**17**	**4**	13	3	38	3	**4**	23	354
12 PM	3	138	86	1	8	14	0	**11**	9	24	4	0	22	320
13:00	6	157	108	0	**9**	**17**	0	7	4	**29**	4	1	**23**	365
14:00	6	153	90	0	7	11	0	6	**11**	16	5	**2**	14	321
15:00	7	189	105	**2**	6	11	**1**	8	5	23	**10**	2	12	381
16:00	**8**	**228**	132	0	5	10	1	6	3	15	7	0	6	**421**
17:00	3	221	**136**	0	3	4	1	9	2	3	4	2	5	393
18:00	5	129	96	1	3	2	0	3	3	3	5	0	4	254
19:00	4	88	55	0	1	1	0	2	1	0	4	0	1	157
20:00	2	70	41	0	1	2	0	0	0	1	1	0	1	119
21:00	1	54	24	0	0	1	0	0	2	0	0	0	0	82
22:00	0	30	15	0	0	0	0	0	0	0	0	0	0	45
23:00	2	23	8	0	0	0	0	1	0	0	0	0	0	34
Day Total	100	2345	1560	18	108	147	12	107	80	286	59	19	204	5045
Percent	2.0%	46.5%	30.9%	0.4%	2.1%	2.9%	0.2%	2.1%	1.6%	5.7%	1.2%	0.4%	4.0%	
AM Peak	08:00	07:00	09:00	09:00	08:00	11:00	11:00	08:00	09:00	08:00	06:00	11:00	08:00	08:00
Vol.	12	170	115	4	16	17	4	13	8	49	4	4	25	403
PM Peak	16:00	16:00	17:00	15:00	13:00	13:00	15:00	12:00	14:00	13:00	15:00	14:00	13:00	16:00
Vol.	8	228	136	2	9	17	1	11	11	29	10	2	23	421

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Nauvoo Rd south of Zion Line

Date Start: 06-Sep-19
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NB, SB

Start Time	Bikes	Cars & Tlrs	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axle Double	5 Axle Double	>5 Axle Double	<6 Axle Multi	6 Axle Multi	>6 Axle Multi	Total
09/13/19	0	7	4	0	1	0	0	0	0	0	0	0	0	12
01:00	0	3	1	0	0	1	0	0	1	0	0	0	0	6
02:00	0	2	0	0	1	1	0	1	0	0	0	0	0	5
03:00	0	9	8	0	1	0	0	0	0	0	0	0	0	18
04:00	0	11	12	0	0	0	0	1	0	0	0	0	1	25
05:00	3	39	33	0	3	0	0	0	4	0	0	0	0	82
06:00	4	86	89	**3**	4	3	0	4	1	6	6	0	11	217
07:00	4	**169**	**112**	1	**11**	7	0	6	**5**	19	9	2	**23**	**368**
08:00	**9**	150	108	1	7	**12**	0	2	4	**22**	**10**	0	11	336
09:00	8	159	105	0	10	5	0	7	2	20	5	1	18	340
10:00	3	133	98	1	10	11	0	**10**	5	20	4	2	9	306
11:00	2	162	104	1	9	9	0	5	5	17	3	**3**	15	335
12 PM	**2**	161	95	2	6	6	0	4	1	5	**7**	**2**	**15**	306
13:00	2	148	116	3	18	**7**	0	11	5	**16**	1	2	12	341
14:00	0	192	115	7	**19**	3	0	**13**	7	15	3	1	2	377
15:00	0	193	146	**8**	13	2	0	9	**9**	9	3	1	4	397
16:00	0	**231**	**194**	4	17	1	0	10	3	5	0	1	1	**467**
17:00	0	213	171	3	6	0	0	3	1	0	3	1	0	401
18:00	0	155	102	2	5	0	0	3	2	0	1	0	0	270
19:00	0	97	84	1	0	0	0	4	0	1	2	0	0	189
20:00	0	85	69	0	2	1	0	2	1	0	0	0	0	160
21:00	0	58	52	0	2	1	0	0	0	0	0	0	0	113
22:00	0	35	36	0	1	0	0	0	0	0	0	0	0	72
23:00	0	23	11	0	0	0	0	0	0	0	0	0	0	34
Day Total	37	2521	1865	37	146	70	0	95	56	155	57	16	122	5177
Percent	0.7%	48.7%	36.0%	0.7%	2.8%	1.4%	0.0%	1.8%	1.1%	3.0%	1.1%	0.3%	2.4%	
AM Peak	08:00	07:00	07:00	06:00	07:00	08:00		10:00	07:00	08:00	08:00	11:00	07:00	07:00
Vol.	9	169	112	3	11	12		10	5	22	10	3	23	368
PM Peak	12:00	16:00	16:00	15:00	14:00	13:00		14:00	15:00	13:00	12:00	12:00	12:00	16:00
Vol.	2	231	194	8	19	7		13	9	16	7	2	15	467
Grand Total	225	18916	13930	289	1017	490	30	891	482	1159	348	88	642	38507
Percent	0.6%	49.1%	36.2%	0.8%	2.6%	1.3%	0.1%	2.3%	1.3%	3.0%	0.9%	0.2%	1.7%	

ORNAMENT

Ontario Road Noise Analysis Method for ENvironment and Transportation

version 2.09

Job No. 1901557
Job Name Twin Creeks Environmental Centre

Scenario Average Sound Traffic Levels at M1 - after the start of the school year
TCEC Operating Hours Only

ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			Total Segment L_{eq} (dBA)
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Friday	7:00	1	274	15	53	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	8:00	1	289	12	58	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	9:00	1	276	18	56	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	10:00	1	250	22	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.6
Friday	11:00	1	284	17	52	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	12:00	1	295	13	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Friday	13:00	1	296	28	51	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Friday	14:00	1	334	26	46	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Friday	15:00	1	367	22	38	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Friday	16:00	1	410	22	22	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Saturday	8:00	1	193	4	27	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	63.7
Saturday	9:00	1	294	6	19	100	0	y	1	-90	90	35.0	Soft	C	1.6	0.0	4.5	6.5	3.5	10.0	35.0	63.2
Saturday	10:00	1	333	10	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	63.8
Monday	7:00	1	315	6	32	100	0	y	1	-90	90	35.0	Soft	C	1.7	0.0	4.5	6.5	3.5	10.0	35.0	64.8
Monday	8:00	1	327	19	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.5
Monday	9:00	1	286	23	45	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	10:00	1	269	16	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Monday	11:00	1	296	25	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Monday	12:00	1	272	18	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	13:00	1	259	18	55	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.7
Monday	14:00	1	283	23	46	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.3
Monday	15:00	1	305	16	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Monday	16:00	1	319	11	15	100	0	y	1	-90	90	35.0	Soft	C	1.4	0.0	4.5	6.5	3.5	10.0	35.0	63.1
Tuesday	7:00	1	303	14	43	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.9
Tuesday	8:00	1	343	20	59	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Tuesday	9:00	1	287	34	48	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	66.8
Tuesday	10:00	1	262	17	50	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	66.4
Tuesday	11:00	1	311	26	64	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Tuesday	12:00	1	275	21	64	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.3
Tuesday	13:00	1	282	25	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.6
Tuesday	14:00	1	333	17	44	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.1
Tuesday	15:00	1	326	15	43	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.0
Tuesday	16:00	1	362	17	20	100	0	y	1	-90	90	35.0	Soft	C	1.5	0.0	4.5	6.5	3.5	10.0	35.0	64.2

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ROAD CHARACTERISTICS | **SOURCE-RECEIVER-BARRIER-TOPOGRAPHY CHARACTERISTICS**

Day	Hour	Time Period	Number of Vehicles			Speed (km/h)	Road Gradient (%)	Two Way? (y/n)	Pavement Type	Road Viewable Angle		Source-Receiver Distance (m)	Ground Type (Hard/Soft)	Topo-graphy Type	Source Height (m)	Road Elevation (m asl)	Receptor Height (m)	Receptor Elevation (m asl)	Ground Elevation Change (m)			**Total Segment L_{eq} (dBA)**
			Autos	Medium	Heavy					Q_1	Q_2								Elevation Change e (m)	Hor. Dist a (m)	Hor. Dist b (m)	
Wednesday	7:00	1	271	12	40	100	0	y	1	-90	90	35.0	Soft	C	1.9	0.0	4.5	6.5	3.5	10.0	35.0	65.5
Wednesday	8:00	1	271	15	69	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Wednesday	9:00	1	251	8	81	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Wednesday	10:00	1	232	8	79	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.7
Wednesday	11:00	1	251	10	82	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.9
Wednesday	12:00	1	260	2	116	100	0	y	1	-90	90	35.0	Soft	C	2.4	0.0	4.5	6.5	3.5	10.0	35.0	69.2
Wednesday	13:00	1	264	11	99	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.7
Wednesday	14:00	1	244	8	74	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Wednesday	15:00	1	325	8	96	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.6
Wednesday	16:00	1	341	9	61	100	0	y	1	-90	90	35.0	Soft	C	2.0	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	7:00	1	267	10	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.2
Thursday	8:00	1	272	18	113	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	69.3
Thursday	9:00	1	255	18	67	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.4
Thursday	10:00	1	223	7	81	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	67.8
Thursday	11:00	1	242	7	105	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.8
Thursday	12:00	1	227	9	84	100	0	y	1	-90	90	35.0	Soft	C	2.3	0.0	4.5	6.5	3.5	10.0	35.0	68.0
Thursday	13:00	1	271	9	85	100	0	y	1	-90	90	35.0	Soft	C	2.2	0.0	4.5	6.5	3.5	10.0	35.0	68.1
Thursday	14:00	1	249	7	65	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.0
Thursday	15:00	1	301	8	72	100	0	y	1	-90	90	35.0	Soft	C	2.1	0.0	4.5	6.5	3.5	10.0	35.0	67.5
Thursday	16:00	1	368	5	48	100	0	y	1	-90	90	35.0	Soft	C	1.8	0.0	4.5	6.5	3.5	10.0	35.0	66.2