

September 14, 2018

City of London
Transportation Planning & Design
P.O. Box 5035
300 Dufferin Avenue
London, Ontario
N6A 4L9Attention: Mr. Matthew Davenport
mdavenport@london.ca**VIA E-MAIL****Re: Road Traffic Noise Impact Study
Highbury Avenue
Bradley Avenue to the Thames River
London, Ontario
VCL File: 118-0033**

Dear Mr. Davenport:

We have completed our analysis of the road traffic noise from Highbury Avenue between Bradley Avenue and the Thames River onto the existing residential dwellings to the west. See Figure 1 for the study area. Our findings and conclusions are outlined herein.

Sound levels were assessed at the residential dwellings along Highbury Avenue within the study area. The residential lands are to the west of Highbury Avenue. This residential area is separated from Highbury Avenue by a high voltage Ontario Hydro corridor that is approximately 90 m wide. The closest residential dwellings either back or side onto the hydro corridor. Typically, the back yards have a chain link fence along the common boundary with the hydro corridor. With the exception of Phair Crescent, which already has a sound barrier fence, there are no other existing sound barrier fences, either along Highbury Avenue or as part of the residential development, within the study area.

1.0 NOISE GUIDELINES

The noise guideline documents below have been used to complete the noise assessment and to determine whether noise mitigation measures are warranted.

1.1 CITY OF LONDON REQUIREMENTS

The City of London Administrative Procedures provide the City's local improvements policies. The procedures are summarized below.

Where a road is not being widened or improved, the construction of new noise barriers will only be considered:

- Where dwellings are adjacent to arterial roadways whose current traffic volume exceeds 10,000 vehicles per day;
- On a total block basis;
- On receipt of a sufficiently signed petition in conformity with the provisions of the *Local Improvement Act*, R.S.O. 1990, C. L.26.

The City of London procedures do not provide any information on how to assess the noise impacts at the affected residents nor how to determine whether noise mitigation measures are warranted. Thus, guidance has been taken from the policies of the Ontario Ministry of Transportation (MTO).

Implementation of noise mitigation will be prioritized by:

- Chronological order of certification by the City Clerk of the sufficiency of the petition requesting noise mitigation; and
- Sufficient funds being available in the current year's Capital Works Budget. It is intended that projects will maintain their priority but may be delayed beyond a current year until sufficient funding becomes available.

1.2 MTO NOISE BARRIER RETROFIT POLICY

The MTO Noise Barrier Retrofit Policy is Appendix B to their Environmental Guide for Noise, latest version April 2007. The MTO developed the policy to alleviate noise impacts on existing noise sensitive areas, such as the outdoor living areas at residential dwellings, adjacent to provincial freeways. The policy is based on the principle that existing Noise Sensitive Areas (NSAs) exposed to high noise levels due to their proximity to a freeway should receive some consideration.

It should be noted that it is not the intent of the MTO policy to provide noise barriers at all sites. Some sites may not be suitable for a number of reasons such as the inability to achieve perceptible sound reduction, excessive costs to provide mitigation for only a few homes, or physical limitations which would make it impossible to provide mitigation. Full implementation of the MTO policy is dependent upon budget allocations and subject to prioritization of candidate sites.

Retrofit noise control measures will be considered where NSAs receive noise levels in excess of 60 dBA if such measures can reduce the noise levels by at least 5 dBA averaged in the first row of dwellings. It must be noted that the 60 dBA limit is consistent with the Ministry of Environment, Conservation and Parks (MECP) sound level limit recommended for the outdoor amenity areas of new residential developments.

2.0 SOUND LEVEL ASSESSMENT

Sound barriers are provided to protect outdoor amenity areas, such as rear yards, only. They are not intended to provide acoustical screening for the dwelling facades such that sound levels propagated indoors through open windows are attenuated. Thus, only dwellings that side or back towards Highbury Avenue have been considered in this assessment. Dwellings fronting towards Highbury Avenue will inherently have their rear yard amenity areas protected by the dwellings themselves.

Sound levels in the rear yards of the residences were determined through sound level measurements, sound level predictions using traffic counts completed at the time of the measurements and sound level predictions using traffic counts published by the City of London.

2.1 SOUND LEVEL MEASUREMENTS

Sound measurements were done from about noon June 19, 2018 until about noon June 28, 2018. The sound monitoring was done on the Hydro One Networks Inc. (HONI) corridor, up against the rear lot line of the residential dwellings. The four monitoring locations are shown on Figure 2.

Sound level meters were set up in the HONI corridor with the microphone set to be adjacent to the rear lot line of the residential dwellings. The measurements were done at 1.5 m above grade, in accordance with MECP requirements. However, since the measurements were done at the rear of the residential lot and not at 3 m from the rear wall of the dwelling, as per the assessment location indicated in the MECP guidelines, the measured sound levels are slightly higher than they would be at the MECP rear yard assessment location. Our analysis indicates that the adjustment is less than 0.3 dBA and is considered to be insignificant and has been ignored as part of this assessment.

At all of the measurement locations, sound levels were monitored continuously over the measurement duration. The sound level meters were left unattended. However, in addition to monitoring sound levels, audio recordings were also made over the entire measurement duration. Thus, if unusual results were obtained, it would be possible to listen to the actual sounds that were being monitored to try to determine the source of the unusual result.

In accordance with MECP requirements, the sound level meters were calibrated before and after the measurements.

2.1.1 NOISE MONITORING RESULTS

Table 1 below shows the results of the sound level measurements. L_{eqDay} is the energy average sound exposure level for the daytime period which extends from 0700 to 2300 hours.

TABLE 1: MEASURED SOUND LEVELS

Date	Location 1	Location 2	Location 3	Location 4
	LeqDay	LeqDay	LeqDay	LeqDay
19 June 2018	60	61	60	57
20 June 2018	61	62	60	55
21 June 2018	63	66	64	62
22 June 2018	64	67	66	58
23 June 2018	60	62	62	57
24 June 2018	61	62	60	64
25 June 2018	62	64	61	58
26 June 2018	63	66	64	57
27 June 2018	61	63	62	57
28 June 2018	61	60	59	57

Note the results for 19 June 2018 and for 28 June 2018 only captured a portion of these two days. Time histories for all of the measurement days are included in Appendix A to this letter report.

Valid sound measurements cannot be made when it is very windy and/or raining since the wind and rain will cause the meter to record higher sound levels than would be obtained otherwise. Weather information from the London International Airport for the measurement dates was obtained from Environment Canada. The weather information is attached to this letter report.

Review of the weather data indicates that there were significant periods of time that were not suitable for sound measurement. The times when the weather was not suitable are highlighted in blue on the time histories. For the days when weather conditions were not ideal for sound measurement, the results presented in Table 1 could be somewhat higher than expected. However, review of the measurement data and comparison to days with suitable weather indicate that the results were not significantly different when the weather was not ideal. Thus, no measurement data was ignored in completing the assessment.

2.2 SOUND LEVEL PREDICTIONS

The sound levels were also determined at the residences using ORNAMENT, the MECP computerized road traffic noise prediction model. This model is used to assess the noise impacts from road traffic at essentially all new residential developments across the Province of Ontario.

The acoustical model accounts for the distance from the source (Highbury Avenue in this case) to the receptors (the point of reception in the rear yard), soft sound absorptive ground between the source and the receptors and no acoustical screening since there are no existing sound barriers. There are some trees and brush present. However, they are not deep enough to provide any significant acoustical screening. Thus, acoustical screening from trees and brush was also not taken into account.

The distance from Highbury Avenue to the residences is essentially constant along the entire length of the study area. The only exception is at the very north end, the dwellings on Phair Crescent and Eula White Place are further from Highbury Avenue.

Traffic data was obtained from:

- Traffic counts that were done during the first week of the sound measurements (i.e. from June 19, 2018 to June 25, 2018); and
- Traffic data posted on the City of London website.

The traffic data is included as Appendix C.

The analysis results are presented in Table 2. Note that traffic counts were only done for one week. Sound level measurements were extended due to the amount of unsuitable weather during the first week of monitoring. Since traffic counts were done by others, it was not possible to extend the traffic counts for a second week.

TABLE 2: PREDICTED SOUND LEVELS

Date	LeqDay (dBA) at Locations 1, 2 and 3		LeqDay (dBA) at Location 4	
	Actual Count	London Data	Actual Count	London Data
19 June 2018	61	62	59	59
20 June 2018	61	62	59	59
21 June 2018	61	62	59	59
22 June 2018	62	62	59	59
23 June 2018	60	62	59	57
24 June 2018	59	62	59	57
25 June 2018	61	62	59	59
26 June 2018		62	59	
27 June 2018		62	59	
28 June 2018		62	59	

As can be seen from the results in Table 2, the predicted sound levels are similar whether using the actual traffic counts or the City of London traffic data.

3.0 DISCUSSION

The sound level predictions at Locations 1, 2, 3 and 4 using the City of London traffic data are essentially the same as those done using the actual traffic counts. This is expected since the City of London traffic data is similar to the volumes obtained through the traffic counts.

Comparison of the predictions to the measured sound levels indicates that the measured sound levels are slightly higher than the predictions. This could be due to a variety of factors including

traffic travelling at higher than the posted speed, wet road conditions, wind, etc. However, the measured sound levels are considered to only be marginally higher than the predicted sound levels.

Based on the measurements and predictions, the daytime sound levels at dwellings represented by Locations 1, 2 and 3 are higher than 60 dBA and qualify for a sound barrier retrofit applying the MTO policies.

At the dwellings represented by Location 4, which are the dwellings on Phair Crescent and Eula White Place, the distance the dwellings are from Highbury Avenue increase as you go northward. The measurement location was at the north end of this area and represents the lowest sound levels this section of dwellings would receive.

The dwelling on Phair Crescent have an existing sound barrier. Thus, accounting for the sound barrier results in existing sound levels well below the 60 dBA threshold. Thus, the residences along Phair Crescent do not qualify for a sound barrier retrofit since their existing sound levels do not exceed 60 dBA.

At Location 4, the predictions indicate a daytime sound level of 59 dBA. The measurement results also indicate the daytime sound level is generally below 60 dBA except for two of the days where the sound level was greater than 60 dBA. Based on this, the residences along Eula White Place also do not qualify for a sound barrier retrofit since their existing sound levels are generally at or below 60 dBA.

Note that there are a series of dwellings along Pondview Terrace, at the very southern end of the study area, that front towards Highbury Avenue. Since the intent of a sound barrier is to protect the rear yard amenity area from road traffic noise and these dwellings already have their rear yard protected by the dwelling itself, a sound barrier is not required for the dwellings on Pondview Terrace. Accounting for the screening provided by the dwellings themselves results in daytime sound levels well below the 60 dBA threshold.

There is also a residential condominium townhouse development between Pondview Road and Worthington Avenue near the north end of the study area that has residential dwellings backing towards Highbury Avenue. These dwellings are more than 300 m from Highbury Avenue and are predicted to receive daytime sound levels of 55 dBA or less. Thus, these dwellings do not qualify for a sound barrier retrofit

3.1 MITIGATION

As outlined herein, noise mitigation measures need to be considered when existing daytime sound levels exceed 60 dBA. The noise mitigation measures need to provide at least 5 dBA and should mitigate the daytime sound levels to the MECP objective of 55 dBA or lower.

To achieve the above objectives, a 2.5 m high sound barrier is recommended for most of the study area. A 2.5 m high sound barrier is predicted to attenuate the daytime sound levels to 55.8 dBA, just slightly above the 55 dBA objective, and provides about 5.8 dBA of sound attenuation. See Figures 3 and 4 for the recommended sound barrier heights and locations.

Sound barriers are most effective (i.e. provide the greatest amount of sound attenuation for a given height) when they are either very close to the sound source or to the receptor locations. At this location, sound barriers are recommended to be located closest to the receptor locations, along their rear lot lines.

Sound barriers could be constructed adjacent to Highbury Avenue. However, since the sound barrier would be significantly further from the noise source (i.e. road traffic on Highbury Avenue, particularly the northbound lanes), than the distance the barrier is from the receptor location in the option presented above, a higher sound barrier is needed to provide the minimum 5 dBA of sound attenuation. Our analysis indicates that a sound barrier along Highbury Avenue would need to be about 4.5 m in height to provide the minimum 5 dBA of sound attenuation. In addition, the sound barrier along Highbury Avenue would need to be significantly longer to provide the same amount of acoustical screening (i.e. constructing the sound barrier along Highbury Avenue would result in significant views around the ends of the sound barrier to the residents to the west).

To meet MECP requirements, sound barriers must be of solid construction with no holes, gaps or cracks and must have a minimum face density of 20 kg/m². A variety of materials can be used including wood, vinyl, masonry, glass, acrylic, earth berms or a combination of the above materials. The sound barrier has been assumed to be located on the rear lot line of the dwellings. Constructing the barrier further from the residents (i.e. on the hydro right of way) would reduce the barrier effectiveness and would require a 4.5 m high and significantly longer sound barrier to provide the same amount of sound attenuation. If earth berms were used, a significant area in plan would be needed. Typically 3:1 side slopes are provided. Thus, to have the barrier centred on the rear lot line would require the toe of the berm to extend at least 7.5 m into the residential rear yard and 7.5 onto the hydro lands.


4.0 CONCLUSIONS

Sound level monitoring and predictions were completed to quantify the noise impacts existing dwellings are receiving along Highbury Avenue. The results indicate that for most of the dwellings in the study area, they are experiencing sound levels above the 60 dBA threshold and would qualify for noise mitigation measures. Except for the dwellings on Phair Crescent and Eula White Place, a 2.5 m high sound barrier is recommended for the remaining dwellings in the study area.

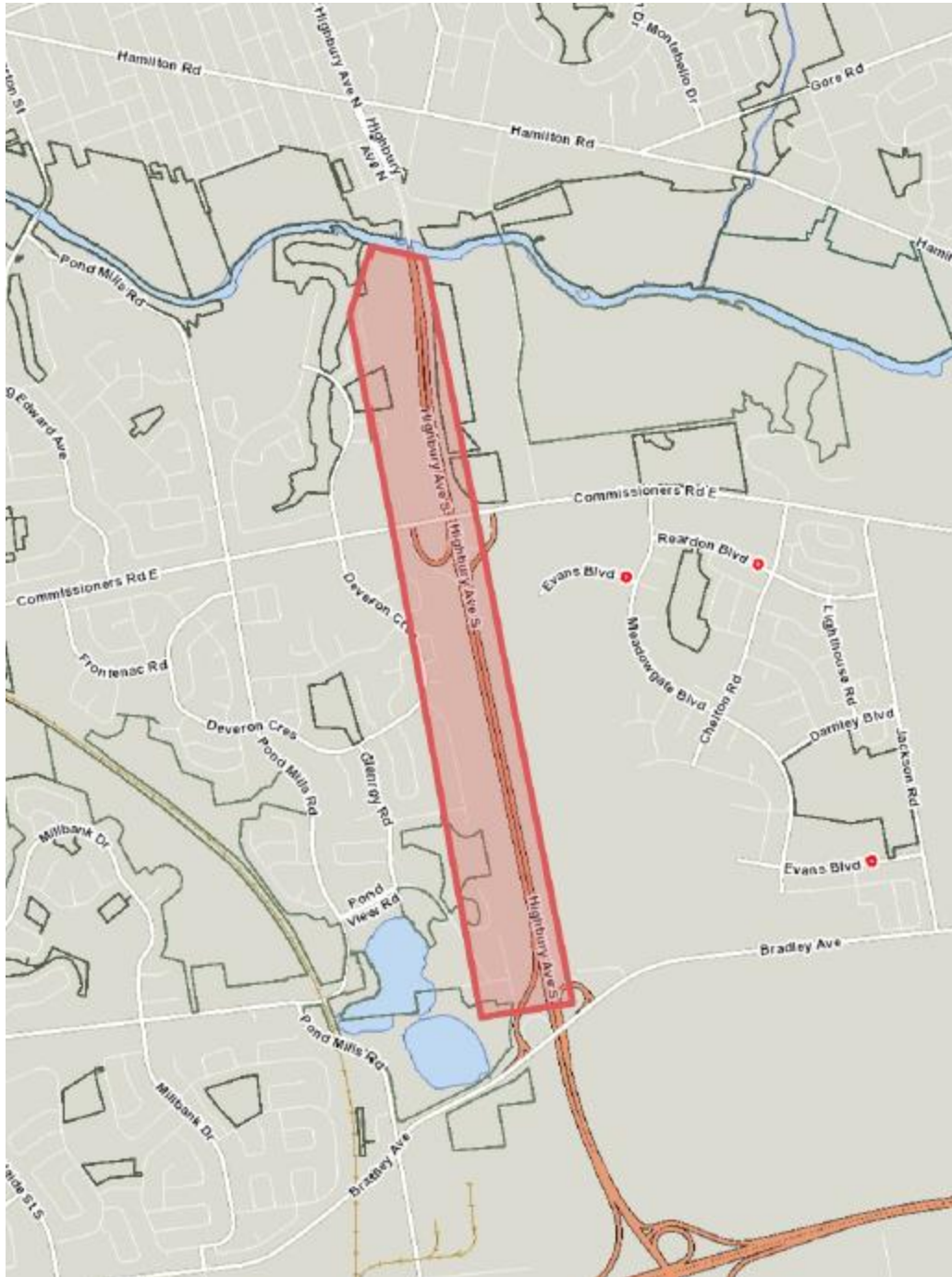
If there are any questions or if additional information is needed, please do not hesitate to call.

Yours truly,

VALCOUSTICS CANADA LTD.

Per: 
John Emeljanow, B.Eng., P.Eng.





Title
Study Area

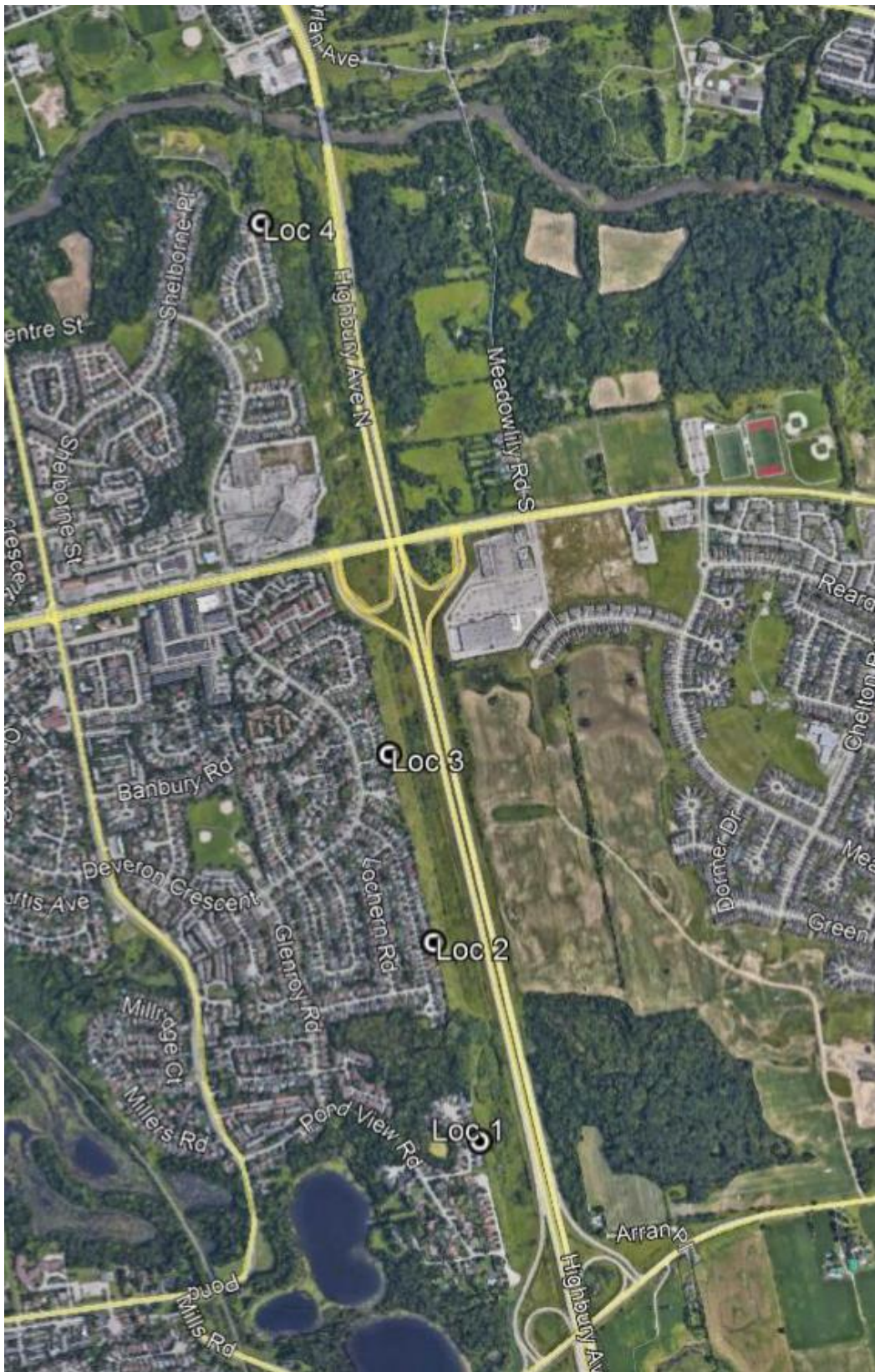
Project Name
Highbury Avenue Noise Impact Assessment

Date
13 Sept 2018

Project No.
118-0033

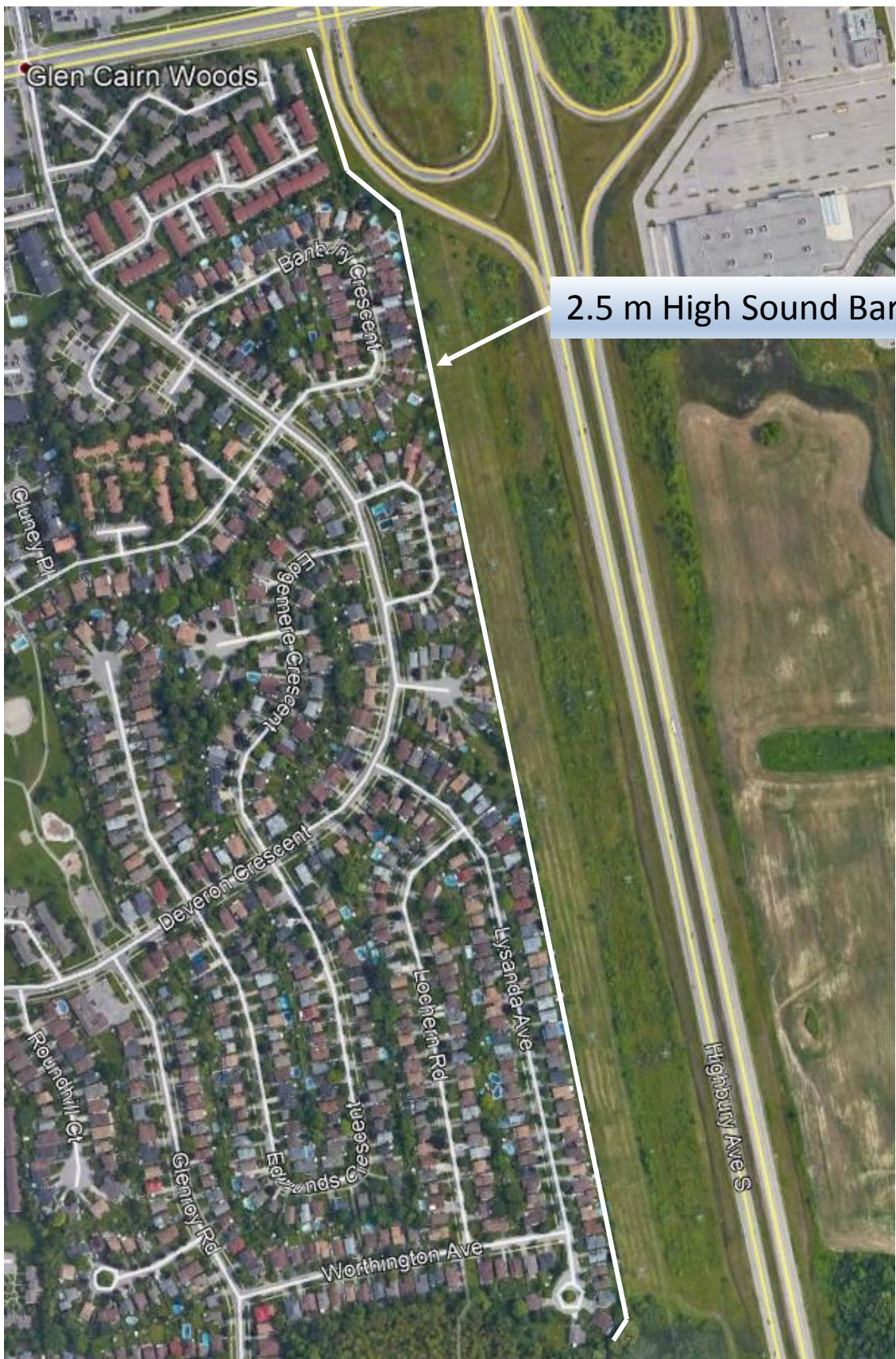
Figure

1





2.5 m High Sound Barrier



Glen Cairn Woods

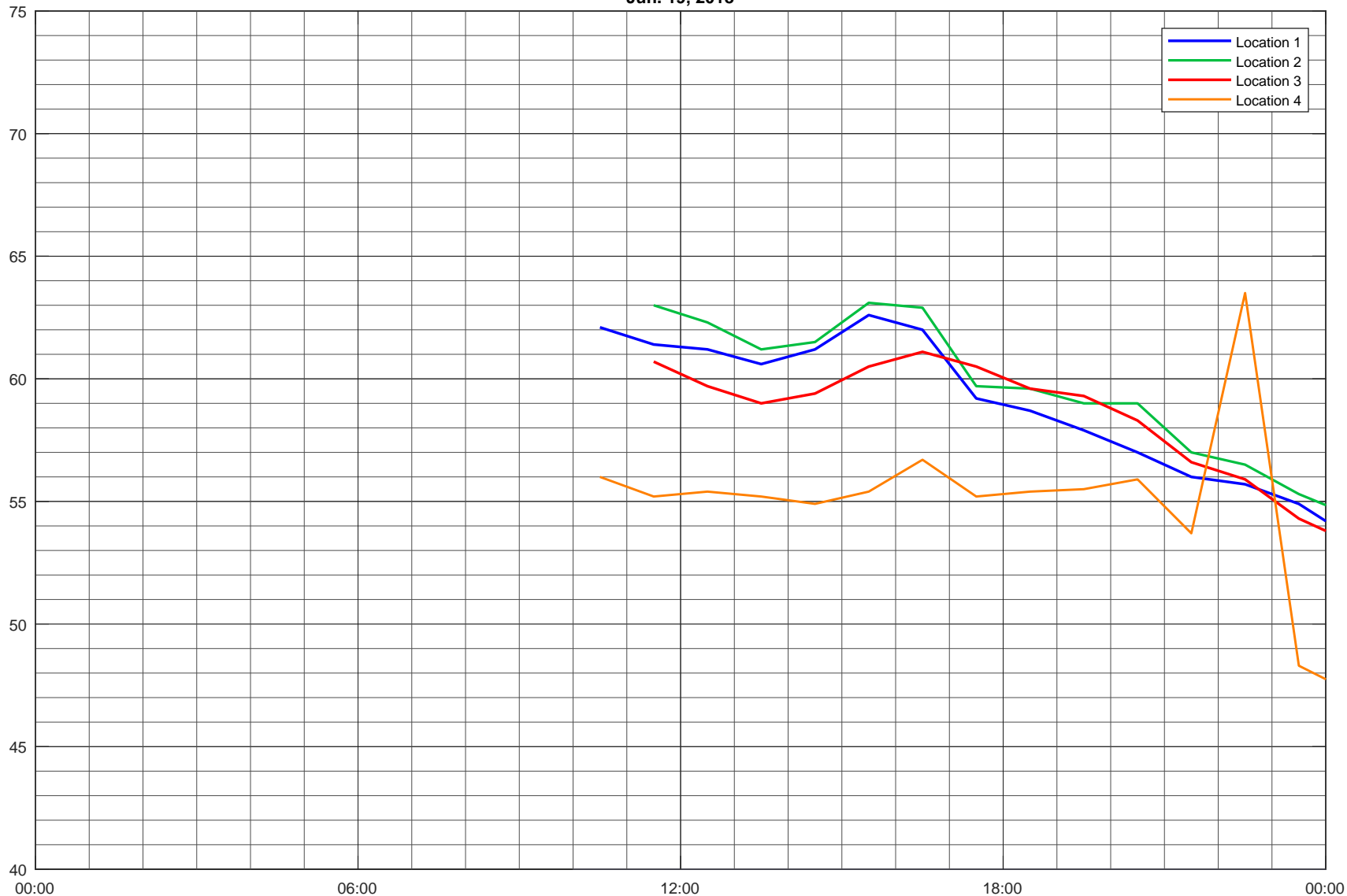
2.5 m High Sound Barrier



APPENDIX A

MEASUREMENT TIME HISTORIES

Jun. 19, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

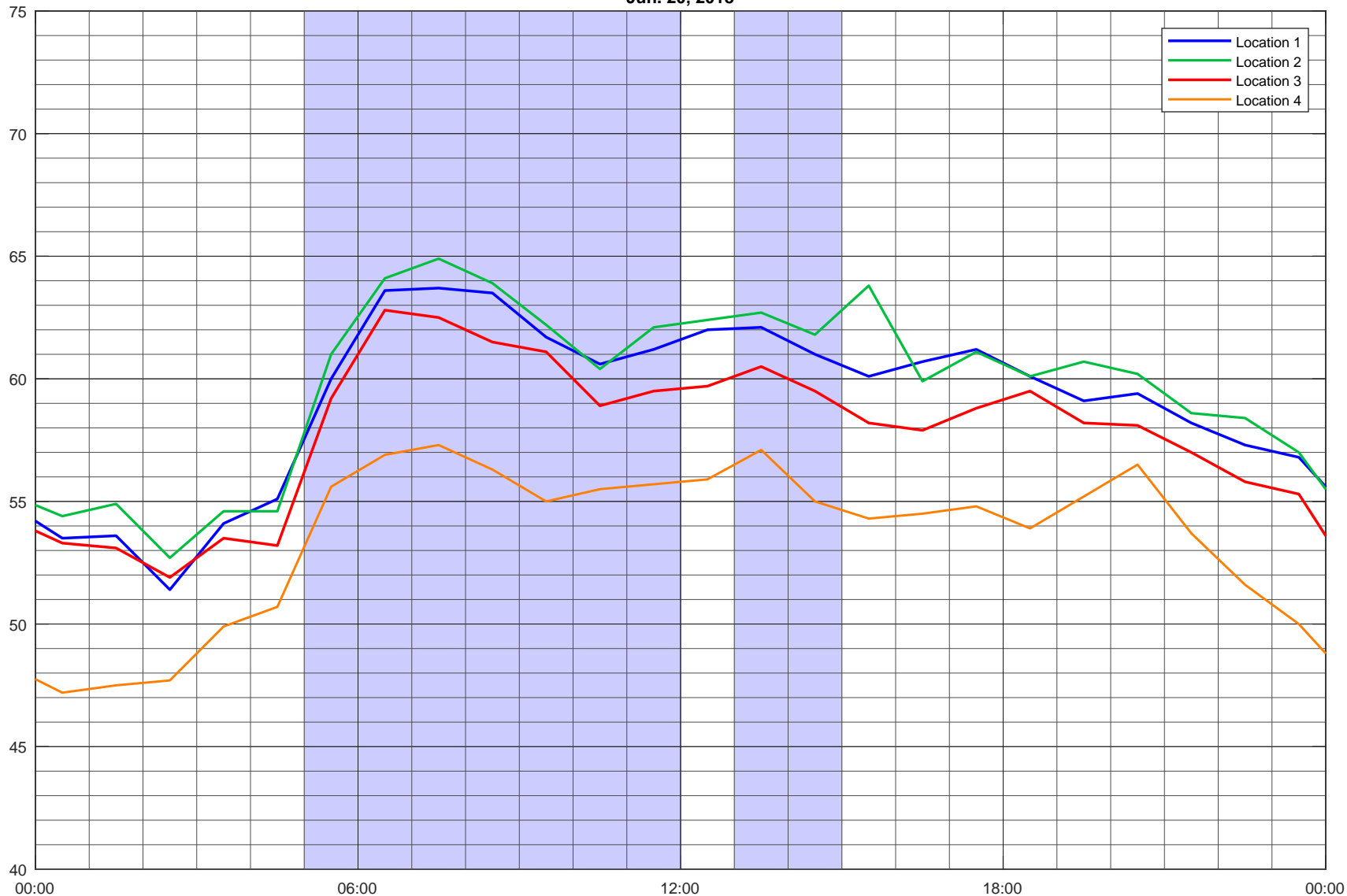
Date
2018-07-20

Project Number
118-0033

Figure

1

Jun. 20, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

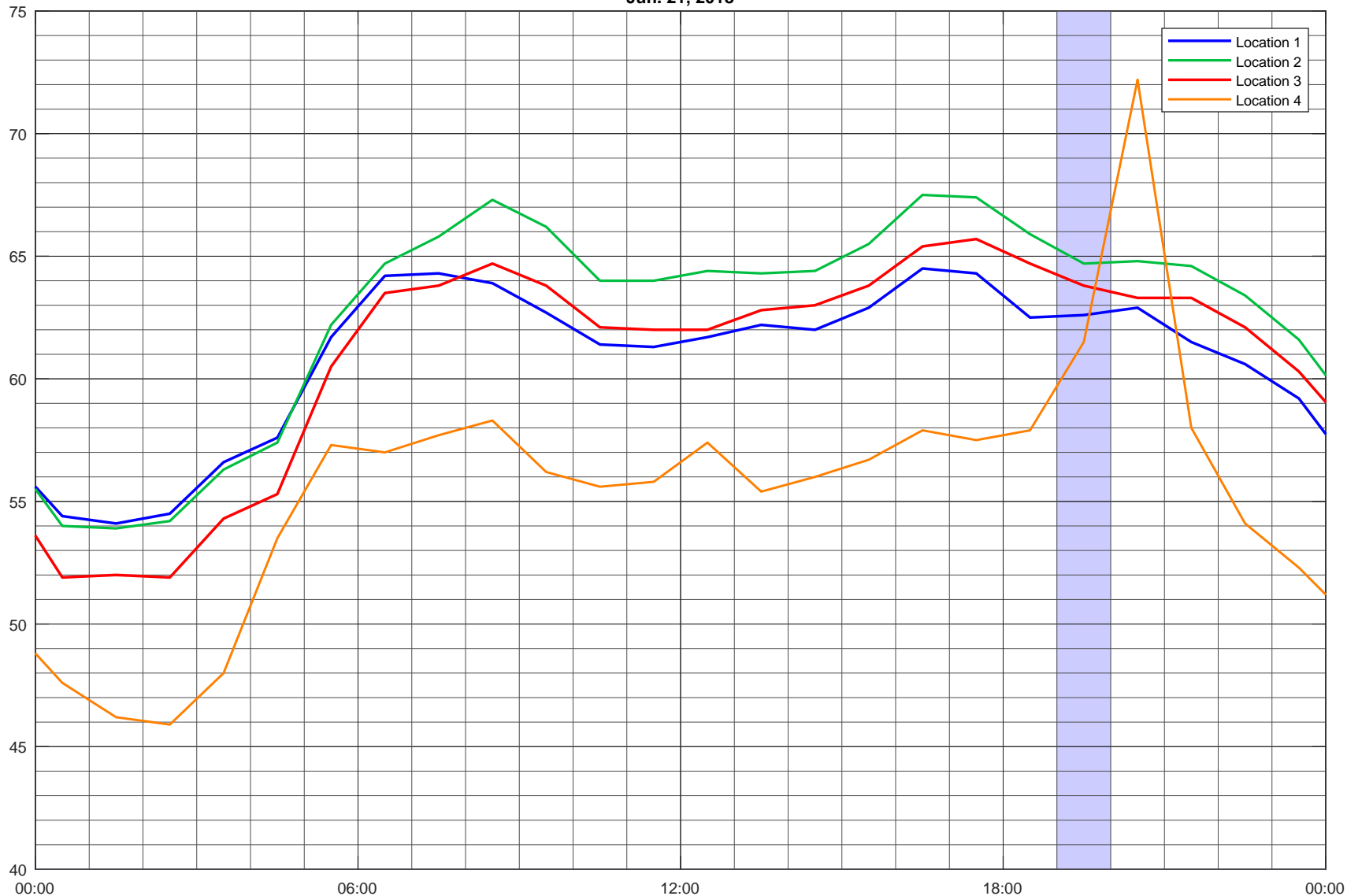
Date
2018-07-20

Project Number
118-0033

Figure

2

Jun. 21, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

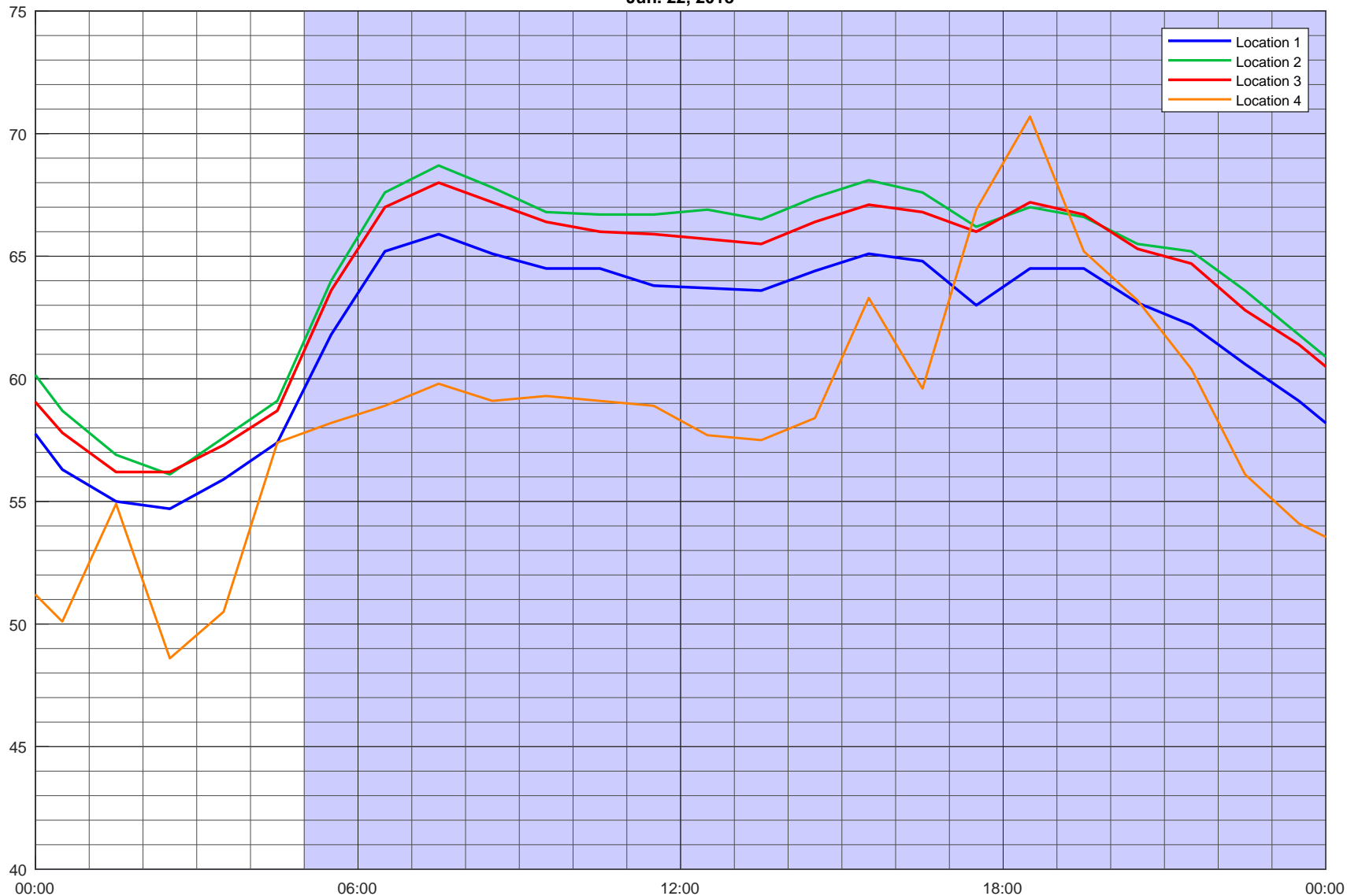
Date
2018-07-20

Project Number
118-0033

Figure

3

Jun. 22, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

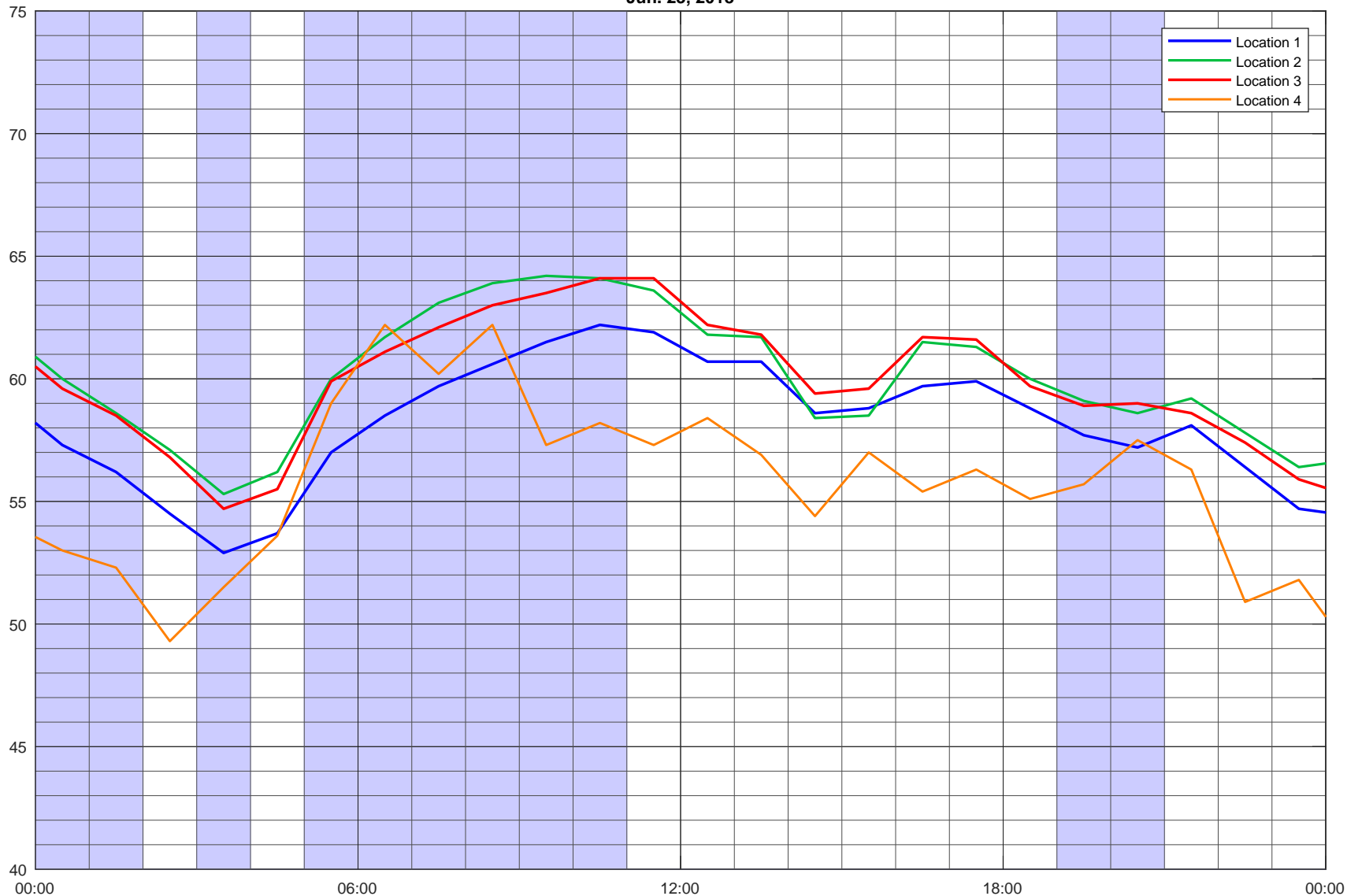
Date
2018-07-20

Project Number
118-0033

Figure

4

Jun. 23, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

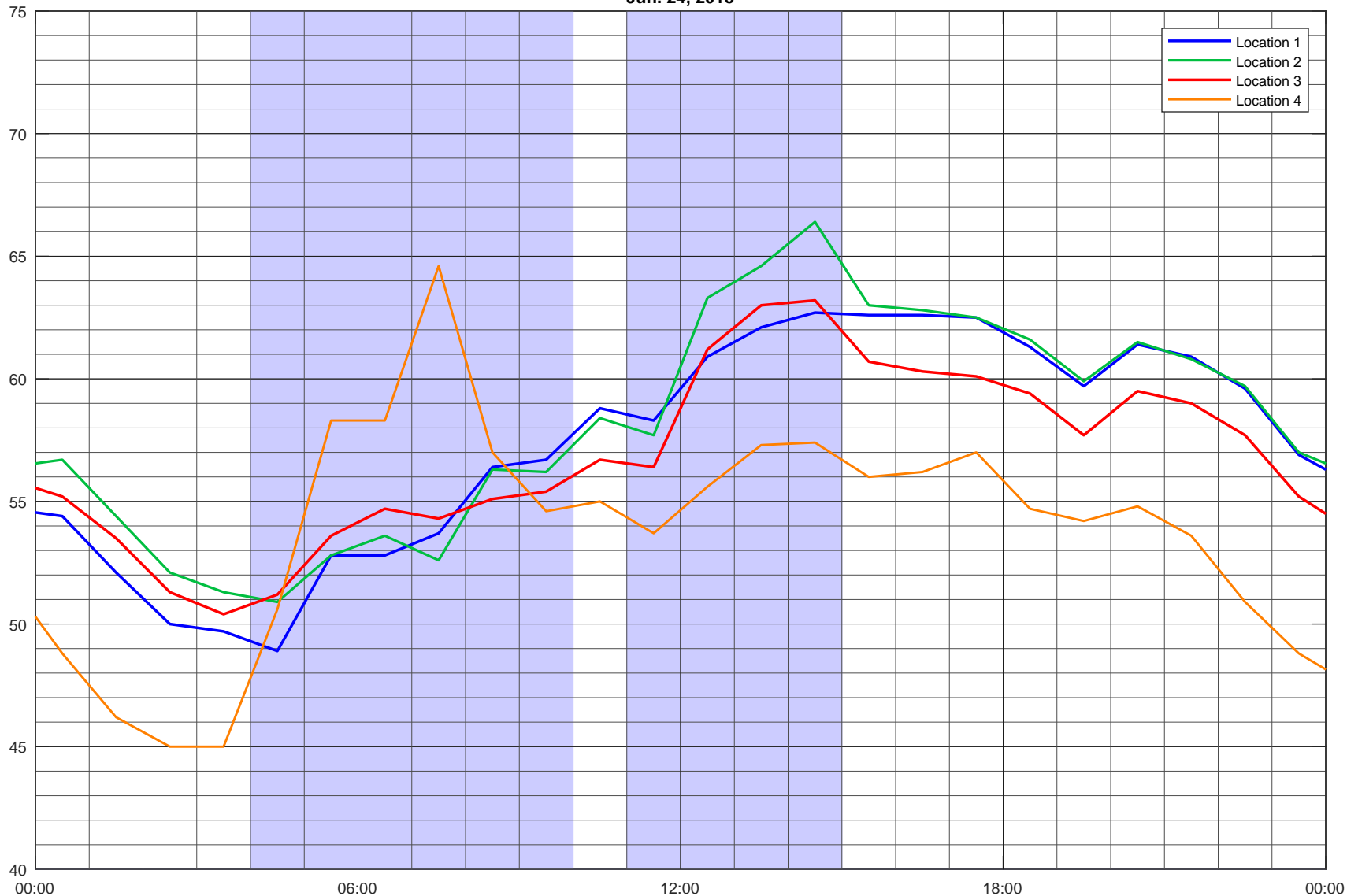
Date
2018-07-20

Project Number
118-0033

Figure

5

Jun. 24, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

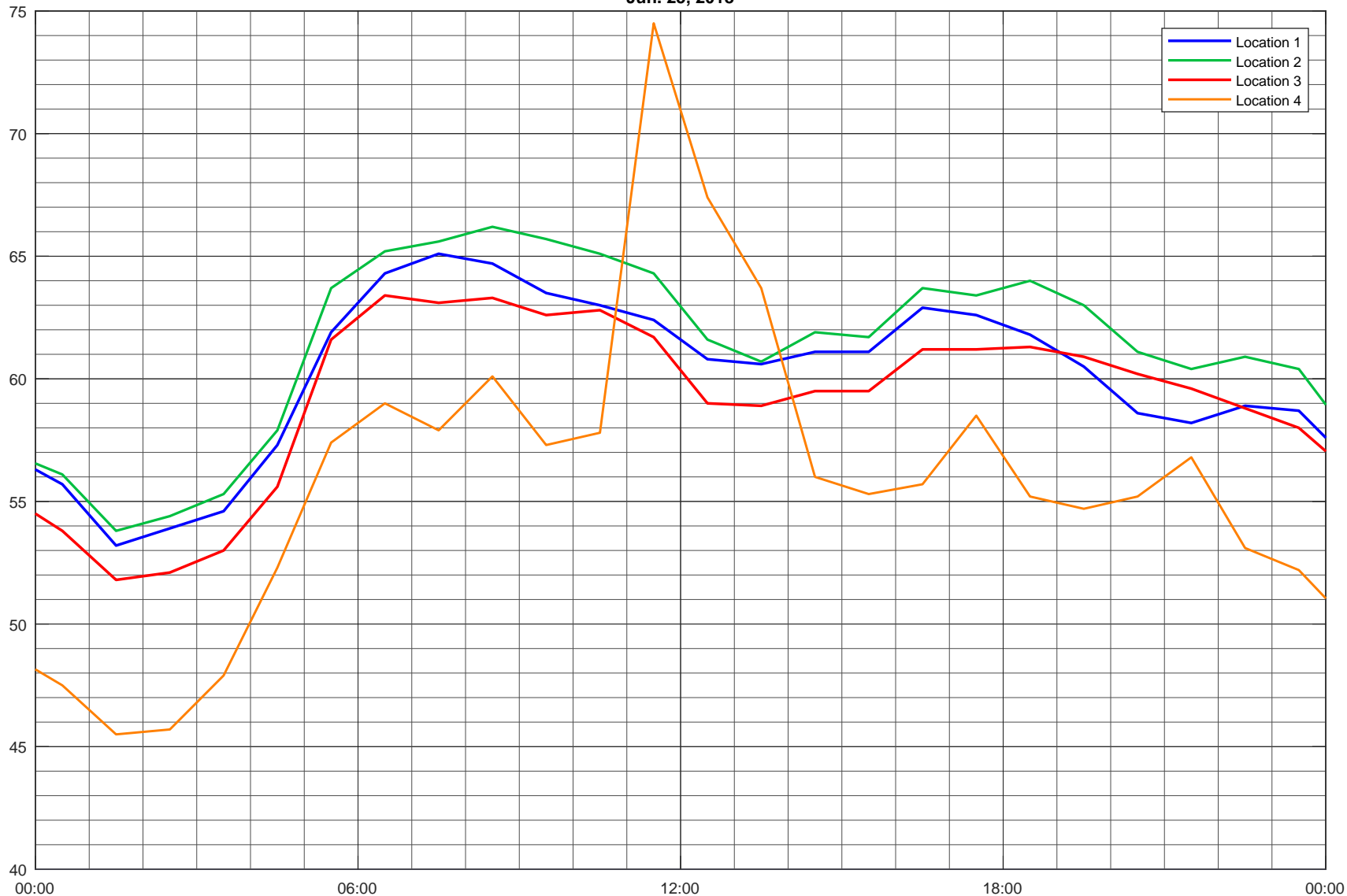
Date
2018-07-20

Project Number
118-0033

Figure

6

Jun. 25, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

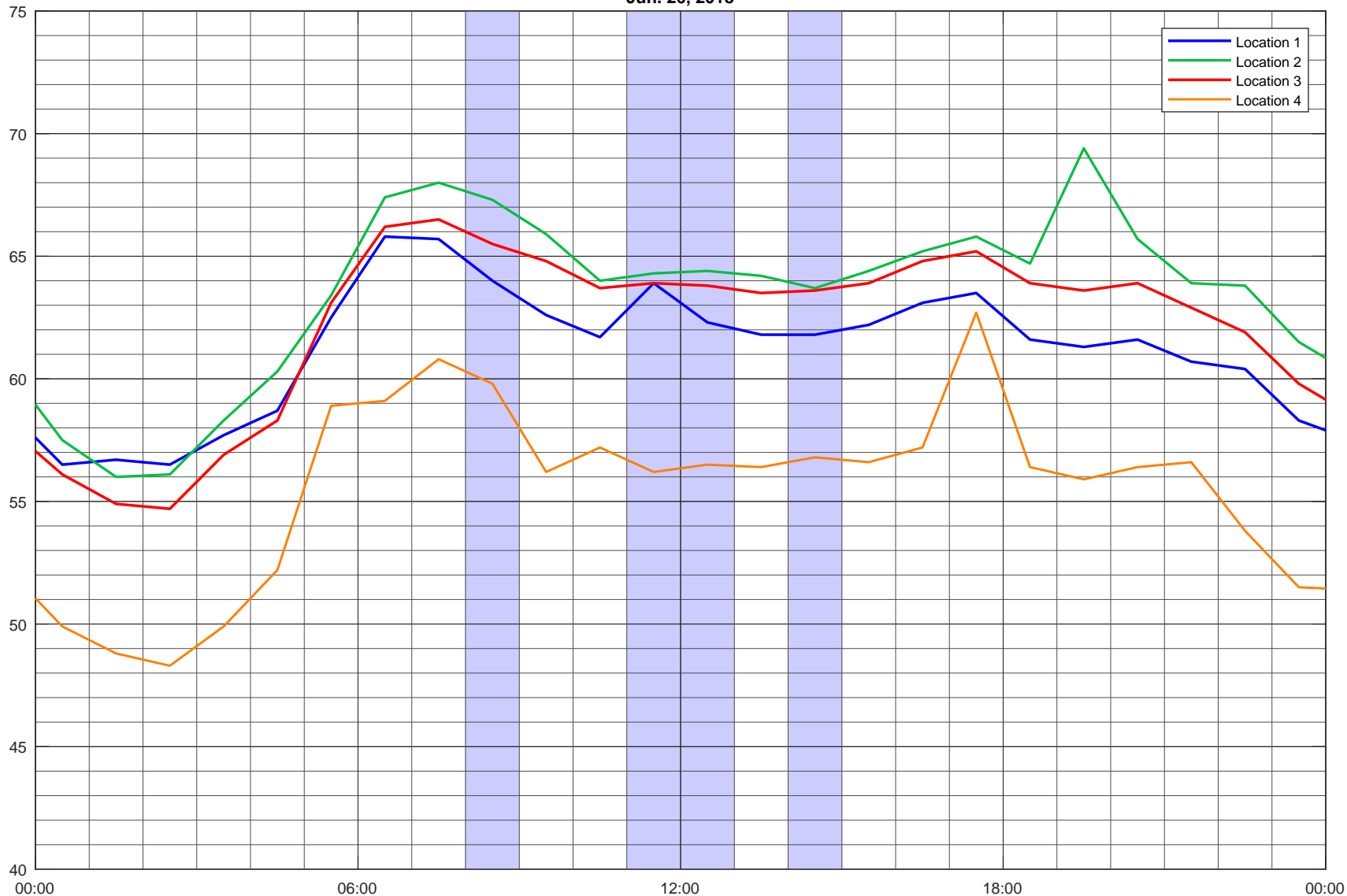
Date
2018-07-20

Project Number
118-0033

Figure

7

Jun. 26, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

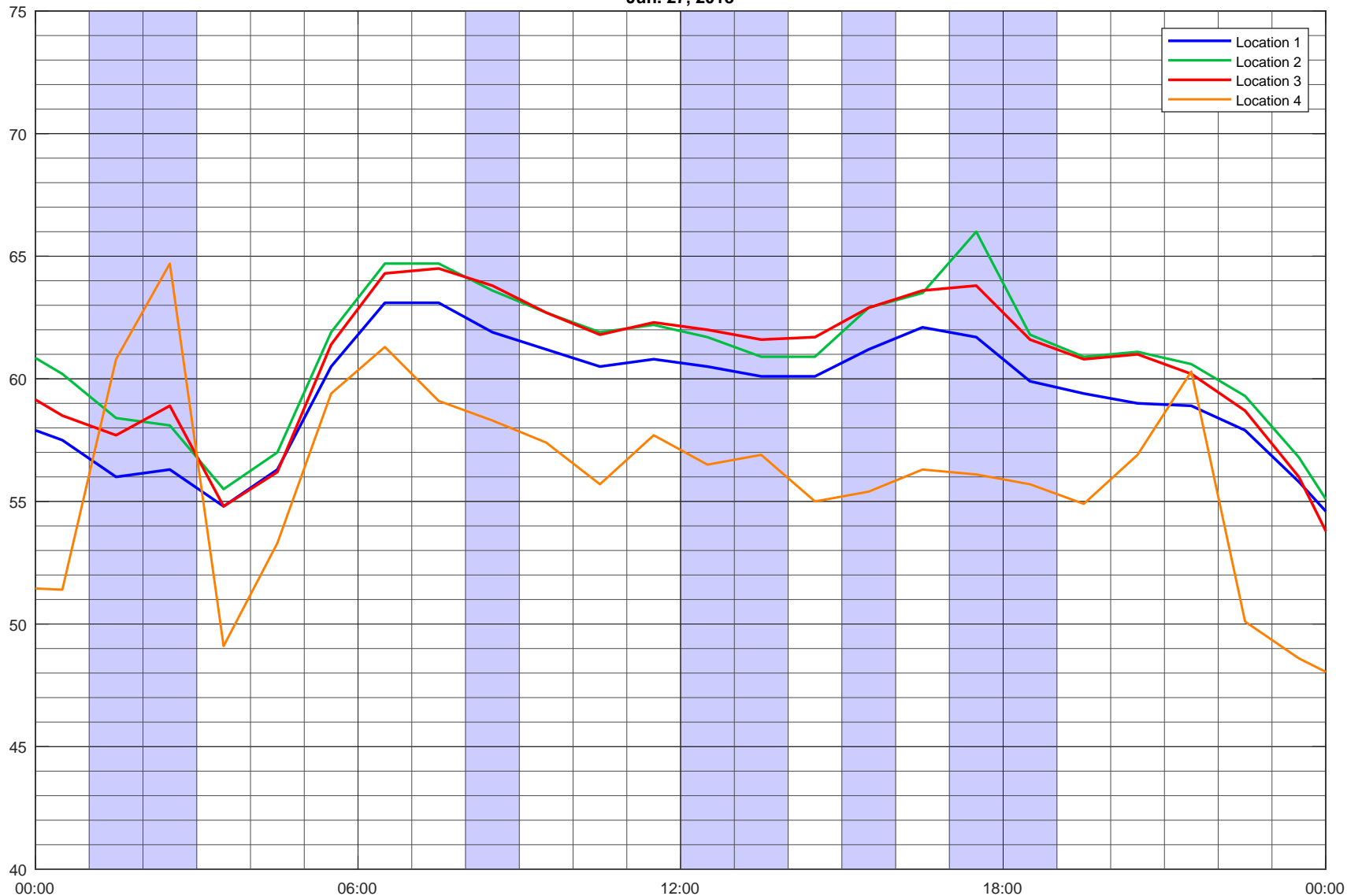
Date
2018-07-20

Project Number
118-0033

Figure

8

Jun. 27, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

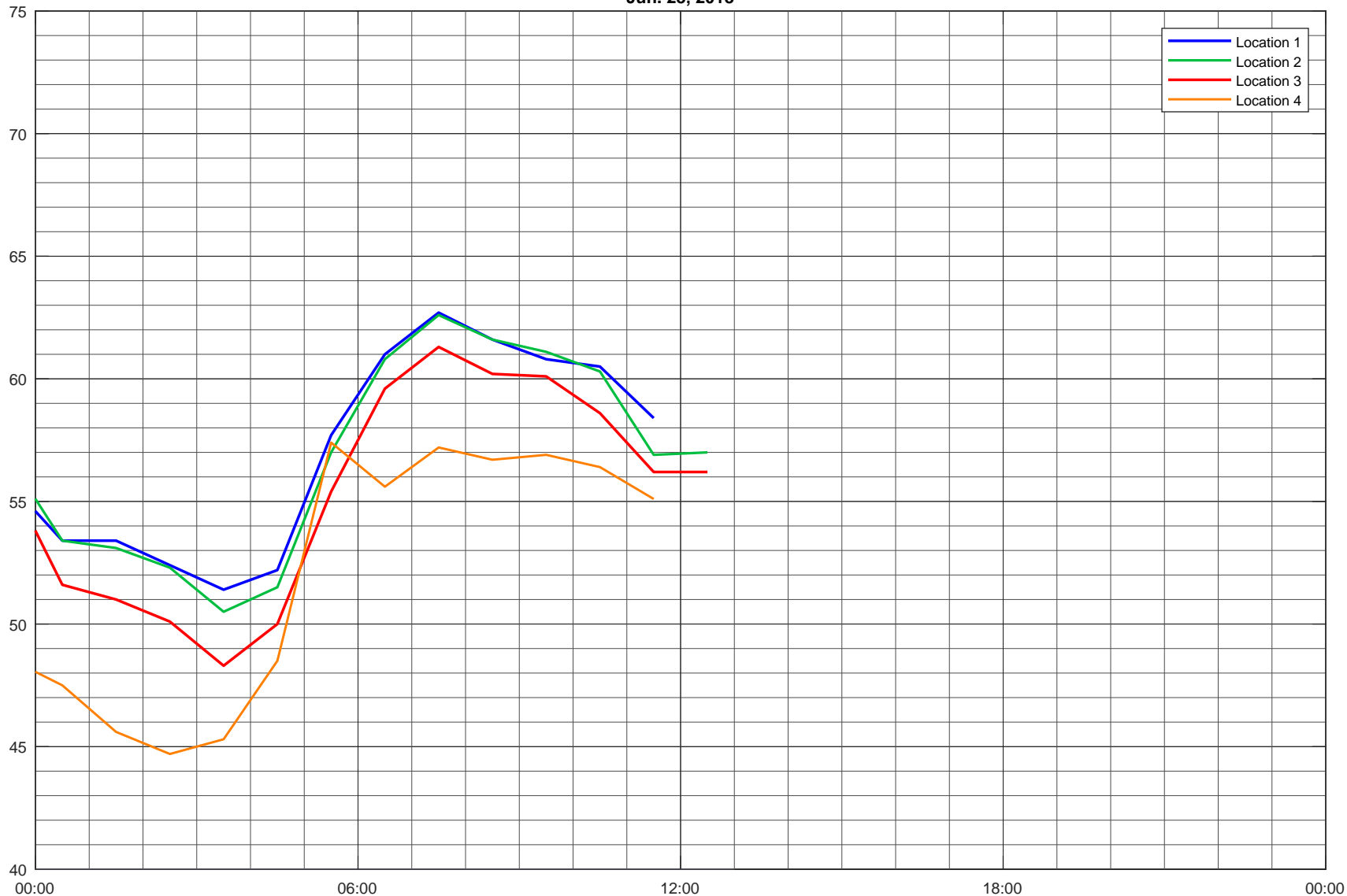
Date
2018-07-20

Project Number
118-0033

Figure

9

Jun. 28, 2018



Title
Measured Sound Levels

Project Name
Highbury Avenue Noise Monitoring

Date
2018-07-20

Project Number
118-0033

Figure

10

APPENDIX B

WEATHER DATA



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Hourly Data Report for June 19, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> % 	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
TIME										
00:00	20.0	19.0	94	36	9	24.1	98.01	27		NA
01:00	19.8	17.9	89	1	15	24.1	98.05			Mostly Cloudy
02:00	18.7	15.9	83	2	13	24.1	98.13			NA
03:00	17.7	14.0	79	2	10	24.1	98.16			NA
04:00	16.6	12.9	79	2	10	24.1	98.19			Mostly Cloudy
05:00	15.5	13.2	86	36	7	24.1	98.28			NA
06:00	16.4	13.9	85	36	11	24.1	98.36			NA
07:00	19.3	14.3	73	5	10	24.1	98.39			Mainly Clear

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
08:00	20.5	15.2	71	7	17	24.1	98.39	25	<u>NA</u>	
09:00	21.9	15.1	65	7	14	24.1	98.38	26	<u>NA</u>	
10:00	22.9	15.4	62	8	12	24.1	98.37	27	Clear	
11:00	23.7	14.6	56	3	12	24.1	98.37	27	<u>NA</u>	
12:00	24.3	15.6	58	3	8	24.1	98.36	29	<u>NA</u>	
13:00	25.2	14.9	52	3	9	24.1	98.33	29	Mostly Cloudy	
14:00	24.9	13.6	49	33	16	24.1	98.29	28	<u>NA</u>	
15:00	25.3	14.3	50	33	9	24.1	98.23	29	<u>NA</u>	
16:00	24.7	13.8	50	34	9	24.1	98.19	28	Mostly Cloudy	
17:00	23.8	16.5	63	30	10	24.1	98.14	29	<u>NA</u>	
18:00	22.0	17.4	74	20	15	24.1	98.11	28	<u>NA</u>	
19:00	20.9	16.8	77	20	19	24.1	98.16	26	Cloudy	
20:00	20.0	16.2	79	20	16	19.3	98.21	25	<u>NA</u>	
21:00	19.4	15.6	78	21	16	24.1	98.21		<u>NA</u>	
22:00	19.1	15.3	78	20	9	24.1	98.16		Cloudy	
23:00	18.7	16.0	84	36	2	24.1	98.15		<u>NA</u>	

Legend

- E = Estimated
- M = Missing
- NA = Not Available

Date modified:

2018-07-20



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Hourly Data Report for June 20, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> %	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
TIME										
00:00	18.7	15.0	79	15	5	24.1	98.13			NA
01:00	17.7	15.8	89	15	4	24.1	98.11			Cloudy
02:00	18.1	16.3	89	11	5	24.1	98.07			NA
03:00	17.9	16.1	89	10	4	24.1	98.01			NA
04:00	17.6	16.3	92	6	4	24.1	98.04			Mostly Cloudy
05:00	17.1	15.7	91	36	2	24.1	98.11			Rain Showers
06:00	16.5	14.9	90	1	10	16.1	98.10			Rain Showers

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
07:00	16.3	14.2	87	3	12	16.1	98.08			Rain Showers
08:00	16.7	14.8	88	1	7	16.1	98.07			Rain Showers
09:00	17.6	14.4	81	1	7	16.1	97.99			Rain Showers
10:00	17.9	14.6	81	32	4	16.1	97.97			Rain Showers
11:00	18.3	15.3	82	36	10	16.1	98.01			Rain Showers
12:00	18.4	14.3	77	36	13	24.1	98.00			<u>NA</u>
13:00	19.1	14.1	73	34	11	24.1	97.97			Rain Showers
14:00	19.1	14.0	72	32	7	19.3	97.94			Rain Showers
15:00	20.9	14.8	68	35	8	24.1	97.89	25		<u>NA</u>
16:00	20.9	14.5	66	34	9	24.1	97.85	25		Mostly Cloudy
17:00	21.2	14.7	66	30	10	24.1	97.80	25		<u>NA</u>
18:00	21.0	12.8	59	28	13	24.1	97.76			<u>NA</u>
19:00	19.4	11.3	59	29	9	24.1	97.76			Mostly Cloudy
20:00	17.5	10.2	62	28	9	24.1	97.76			<u>NA</u>
21:00	16.2	10.1	67	30	6	24.1	97.83			<u>NA</u>
22:00	14.9	11.1	78	30	8	24.1	97.91			Cloudy
23:00	14.4	11.2	81	31	12	24.1	97.88			<u>NA</u>

Legend

- E = Estimated
- M = Missing
- NA = Not Available

Date modified:

2018-07-20



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Hourly Data Report for June 21, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> % 	<u>Wind</u>		<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
				<u>Dir</u> 10's deg	<u>Spd</u> km/h 					
TIME										
00:00	13.8	10.6	81	29	7	24.1	97.86			NA
01:00	13.2	10.2	81	34	9	24.1	97.82			Mainly Clear
02:00	12.2	9.9	86	35	10	24.1	97.82			NA
03:00	11.7	9.6	87	35	10	24.1	97.80			NA
04:00	12.2	9.9	86	35	10	24.1	97.82			Clear
05:00	11.0	9.1	88	35	9	24.1	97.87			NA
06:00	14.0	10.9	81	2	4	24.1	97.90			NA
07:00	17.3	13.3	77	5	16	24.1	97.94			Mainly Clear
08:00	19.2	14.2	72	8	18	24.1	97.98			NA

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	20.6	15.0	70	10	16	24.1	98.01	25		<u>NA</u>
10:00	21.7	15.7	69	9	17	24.1	97.98	26		Mostly Cloudy
11:00	22.4	15.7	66	9	18	24.1	97.99	27		<u>NA</u>
12:00	23.1	15.1	60	9	16	24.1	97.99	27		<u>NA</u>
13:00	23.3	15.3	60	9	16	24.1	97.96	27		Mostly Cloudy
14:00	23.3	15.2	60	10	17	24.1	97.94	27		<u>NA</u>
15:00	23.9	15.6	59	11	14	24.1	97.91	28		<u>NA</u>
16:00	24.0	15.5	58	10	18	24.1	97.88	28		Mostly Cloudy
17:00	23.2	14.5	57	10	18	24.1	97.89	27		<u>NA</u>
18:00	22.9	13.7	55	9	20	24.1	97.90	26		<u>NA</u>
19:00	21.3	10.8	51	10	21	24.1	97.92			Mostly Cloudy
20:00	18.8	11.0	60	7	14	24.1	97.92			<u>NA</u>
21:00	16.7	9.4	62	9	13	24.1	98.00			<u>NA</u>
22:00	15.0	7.1	59	9	11	24.1	98.04			Mainly Clear
23:00	15.2	5.9	54	8	15	24.1	98.04			<u>NA</u>

Legend

- E = Estimated
- M = Missing
- NA = Not Available

Date modified:

2018-07-20



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Hourly Data Report for June 22, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> Temp °C 	<u>Rel</u> Hum % 	<u>Wind</u> Dir 10's deg	<u>Wind</u> Spd km/h 	<u>Visibility</u> km 	<u>Stn</u> Press kPa 	<u>Hmdx</u>	<u>Wind</u> Chill	<u>Weather</u>
TIME										
00:00	14.3	6.6	59	8	16	24.1	98.04			NA
01:00	13.9	6.7	62	7	16	24.1	98.00			Mostly Cloudy
02:00	13.4	7.0	65	8	15	24.1	97.99			NA
03:00	13.4	7.3	66	8	18	24.1	97.98			NA
04:00	13.2	7.3	67	8	19	24.1	97.99			Mainly Clear
05:00	13.2	7.6	69	8	21	24.1	97.98			NA
06:00	14.1	7.6	65	8	24	24.1	97.99			NA
07:00	15.8	7.7	58	8	24	24.1	98.00			Mostly Cloudy
08:00	16.3	6.9	53	8	30	24.1	98.01			NA

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> %	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
09:00	17.3	7.7	53	9	29	24.1	98.02			NA
10:00	19.2	9.1	52	7	26	24.1	97.99			Cloudy
11:00	20.0	9.4	50	7	27	24.1	97.98			NA
12:00	20.7	11.6	56	8	22	24.1	97.97			NA
13:00	22.2	12.8	55	11	22	24.1	97.91	25		Mostly Cloudy
14:00	21.1	13.1	60	9	24	24.1	97.86			NA
15:00	18.7	13.4	71	7	29	24.1	97.78			Rain Showers
16:00	16.5	13.6	83	9	20	16.1	97.82			Rain Showers
17:00	15.3	14.0	92	8	26	6.4	97.78			Rain Showers,Fog
18:00	15.2	14.4	95	7	28	4.8	97.74			Rain Showers,Fog
19:00	14.8	13.7	93	8	26	16.1	97.73			Rain Showers
20:00	15.0	14.1	94	8	24	8.1	97.69			Rain Showers,Fog
21:00	15.9	15.1	95	9	22	8.1	97.69			Fog
22:00	16.7	15.9	95	10	22	16.1	97.68			Rain Showers
23:00	16.8	16.1	95	11	21	16.1	97.66			Rain Showers

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Hourly Data Report for June 23, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C	<u>Dew Point</u> Temp °C	<u>Rel</u> <u>Hum</u> %	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h	<u>Visibility</u> km	<u>Stn</u> <u>Press</u> kPa	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
TIME										
00:00	16.9	16.1	95	10	23	24.1	97.62			NA
01:00	16.7	15.8	94	10	21	24.1	97.58			Cloudy
02:00	16.7	15.7	94	11	19	24.1	97.54			NA
03:00	16.8	15.6	92	10	21	24.1	97.49			NA
04:00	16.8	15.7	93	10	19	24.1	97.46			Cloudy
05:00	16.7	15.8	94	10	16	24.1	97.46			Rain Showers
06:00	16.5	15.8	95	10	17	16.1	97.45			Rain Showers
07:00	16.7	16.1	96	9	17	16.1	97.47			Rain Showers
08:00	16.8	16.3	96	10	14	12.9	97.46			Rain Showers

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> %	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
09:00	17.1	16.4	96	9	11	19.3	97.45			Rain Showers
10:00	17.8	16.9	95	11	13	19.3	97.42			Rain Showers
11:00	18.3	17.4	95	13	12	19.3	97.40			<u>NA</u>
12:00	19.3	18.0	92	13	12	24.1	97.39			<u>NA</u>
13:00	20.6	18.6	88	15	13	24.1	97.38	27		Cloudy
14:00	21.7	18.2	80	14	3	24.1	97.35	28		<u>NA</u>
15:00	22.0	18.6	81	10	17	24.1	97.32	28		<u>NA</u>
16:00	22.5	18.8	79	14	12	24.1	97.36	29		Mostly Cloudy
17:00	23.1	18.8	77	10	10	24.1	97.34	30		<u>NA</u>
18:00	21.9	18.6	81	16	7	24.1	97.35	28		<u>NA</u>
19:00	20.7	18.9	89	5	7	6.4	97.40	27		Rain Showers,Fog
20:00	19.7	18.9	95	4	10	4.0	97.45			Rain Showers,Fog
21:00	19.3	18.8	96	9	10	6.4	97.50			Fog
22:00	19.2	18.6	97	10	7	4.8	97.56			Fog
23:00	18.9	18.4	96	10	8	4.0	97.55			Fog

Legend

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Hourly Data Report for June 24, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

TIME	<u>Temp</u>	<u>Dew Point</u>	<u>Rel</u>	<u>Wind</u>	<u>Wind</u>	<u>Visibility</u>	<u>Stn</u>	<u>Hmdx</u>	<u>Wind</u>	<u>Weather</u>
	°C	°C	Hum %	Dir 10's deg	Spd km/h	km	Press kPa		Chill	
00:00	18.4	18.0	98	14	6	3.2	97.55			Fog
01:00	18.5	18.1	98	12	10	1.6	97.54			Fog
02:00	18.4	18.1	98	12	9	1.6	97.52			Fog
03:00	18.4	18.0	97	14	8	2.4	97.54			Drizzle,Fog
04:00	18.3	17.9	98	14	8	1.6	97.54			Rain Showers,Fog
05:00	18.3	18.0	98	11	9	2.4	97.56			Rain Showers,Fog
06:00	18.1	17.9	98	10	14	3.2	97.57			Rain Showers,Fog
07:00	17.5	17.1	98	1	11	6.4	97.62			Rain Showers,Fog
08:00	17.9	17.4	97	10	3	16.1	97.67			Rain Showers

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> %	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	18.9	18.1	95	32	6	19.3	97.70			Rain Showers
10:00	19.9	18.6	92	32	8	24.1	97.75			Cloudy
11:00	19.3	18.4	94	34	7	8.1	97.79			Rain Showers,Fog
12:00	17.8	16.9	95	35	14	4.0	97.87			Moderate Rain Showers,Fog
13:00	17.9	17.0	95	5	16	8.1	97.90			Rain Showers,Fog
14:00	18.5	17.3	93	36	9	16.1	97.97			Rain Showers
15:00	19.1	17.3	89	36	9	24.1	98.06			<u>NA</u>
16:00	20.2	17.0	82	2	11	24.1	98.13	25		Mostly Cloudy
17:00	21.1	16.8	76	36	14	24.1	98.15	26		<u>NA</u>
18:00	20.2	16.8	80	1	7	24.1	98.23	25		<u>NA</u>
19:00	20.1	16.4	79	36	12	24.1	98.25	25		Mainly Clear
20:00	17.8	15.4	86	35	10	24.1	98.29			<u>NA</u>
21:00	17.8	15.7	88	32	9	24.1	98.39			<u>NA</u>
22:00	16.4	15.2	93	30	11	24.1	98.44			Clear
23:00	15.5	14.6	94	33	8	24.1	98.50			<u>NA</u>

Legend

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Hourly Data Report for June 25, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

TIME	<u>Temp</u>	<u>Dew Point</u>	<u>Rel</u>	<u>Wind</u>	<u>Visibility</u>	<u>Stn</u>	<u>Hmdx</u>	<u>Wind</u>	<u>Weather</u>
	°C	°C	Hum %	Dir 10's deg					
00:00	14.6	13.9	96	36	8	24.1	98.54		NA
01:00	13.9	13.3	96	35	8	24.1	98.57		Clear
02:00	13.1	12.4	96	36	7	24.1	98.58		NA
03:00	12.3	11.6	96	1	9	24.1	98.62		NA
04:00	12.1	11.3	95	2	5	24.1	98.69		Clear
05:00	11.2	10.7	96	36	6	24.1	98.83		NA
06:00	12.8	11.5	92	2	10	24.1	98.86		NA
07:00	15.1	11.8	81	3	9	24.1	98.91		Mainly Clear
08:00	17.1	11.2	68	5	14	24.1	98.98		NA

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	18.6	9.8	56	6	18	24.1	99.01			<u>NA</u>
10:00	19.7	9.9	53	3	14	24.1	99.04			Mostly Cloudy
11:00	20.4	8.9	47	3	12	24.1	99.05			<u>NA</u>
12:00	21.3	8.2	43	1	9	24.1	99.05			<u>NA</u>
13:00	21.4	7.5	40	4	14	24.1	99.06			Cloudy
14:00	21.9	8.4	42	3	5	24.1	99.04			<u>NA</u>
15:00	22.7	9.8	44	1	10	24.1	99.01			<u>NA</u>
16:00	22.6	10.2	45	35	7	24.1	98.98			Mostly Cloudy
17:00	22.4	8.6	41	7	7	24.1	98.95			<u>NA</u>
18:00	22.3	9.2	43	5	4	24.1	98.95			<u>NA</u>
19:00	21.2	9.6	47	6	7	24.1	98.94			Mainly Clear
20:00	17.9	11.5	66	18	14	24.1	98.94			<u>NA</u>
21:00	16.8	11.7	72	19	8	24.1	98.99			<u>NA</u>
22:00	13.1	11.7	91	36	2	24.1	98.99			Mainly Clear
23:00	12.9	11.6	92	8	5	24.1	99.00			<u>NA</u>

Legend

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Hourly Data Report for June 26, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> % 	<u>Wind</u> <u>Dir</u> 10's deg	<u>Wind</u> <u>Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
TIME										
00:00	11.3	10.8	96	4	5	24.1	99.03			NA
01:00	11.1	10.7	97	4	7	24.1	99.04			Clear
02:00	10.9	10.4	96	5	6	24.1	99.07			NA
03:00	11.3	9.1	86	5	11	24.1	99.03			NA
04:00	11.0	8.8	86	8	10	24.1	99.03			Mainly Clear
05:00	10.6	8.6	87	8	6	24.1	99.03			NA
06:00	12.3	9.0	80	7	16	24.1	98.99			NA
07:00	14.7	10.9	78	11	10	24.1	99.02			Mostly Cloudy
08:00	17.0	10.6	66	10	21	24.1	98.96			NA

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	19.1	10.8	58	10	20	24.1	98.89			<u>NA</u>
10:00	20.8	12.0	56	11	18	24.1	98.85			Mostly Cloudy
11:00	22.3	12.9	55	11	22	24.1	98.76	25		<u>NA</u>
12:00	22.5	12.0	51	13	22	24.1	98.74	25		<u>NA</u>
13:00	23.2	12.0	49	16	19	24.1	98.70	25		Mostly Cloudy
14:00	24.3	12.0	46	14	22	24.1	98.61	27		<u>NA</u>
15:00	24.7	11.6	43	14	18	24.1	98.57	27		<u>NA</u>
16:00	25.2	13.2	47	11	19	24.1	98.48	28		Mostly Cloudy
17:00	24.3	12.8	48	11	18	24.1	98.39	27		<u>NA</u>
18:00	23.4	13.6	54	10	17	24.1	98.33	27		<u>NA</u>
19:00	22.4	14.5	60	10	13	24.1	98.25	26		Cloudy
20:00	20.2	13.7	66	9	20	24.1	98.17			<u>NA</u>
21:00	19.4	13.0	66	8	16	24.1	98.20			<u>NA</u>
22:00	18.1	11.6	65	8	14	24.1	98.18			Cloudy
23:00	17.7	11.4	66	8	17	24.1	98.15			<u>NA</u>

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Hourly Data Report for June 27, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> Temp °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
TIME										
00:00	17.9	12.2	69	9	17	24.1	98.05			NA
01:00	15.9	15.0	95	9	17	4.0	97.99			Thunderstorms,Rain Showers,Fog
02:00	16.5	15.9	96	10	11	6.4	97.97			Rain Showers,Fog
03:00	16.5	15.9	96	11	10	24.1	97.87			NA
04:00	17.0	16.4	96	11	8	24.1	97.87			Mostly Cloudy
05:00	17.2	16.7	97	9	8	16.1	97.83			NA
06:00	18.0	17.6	97	14	11	8.1	97.77			Fog
07:00	18.6	18.0	97	14	9	9.7	97.82			Fog
08:00	19.4	18.5	95	19	17	8.1	97.77			Rain Showers,Fog

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> %	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	19.8	18.8	94	18	12	9.7	97.70			Fog
10:00	20.5	19.2	92	17	16	12.9	97.63	27		Cloudy
11:00	20.2	18.8	91	17	19	12.9	97.62	27		<u>NA</u>
12:00	20.1	19.1	94	19	13	9.7	97.61	27		Rain Showers,Fog
13:00	21.4	19.9	91	17	16	12.9	97.53	29		Rain Showers
14:00	22.4	19.7	84	18	14	24.1	97.48	30		<u>NA</u>
15:00	22.4	20.0	86	19	16	24.1	97.41	30		Rain Showers
16:00	21.2	19.3	89	17	14	24.1	97.38	28		Cloudy
17:00	21.0	19.7	92	17	13	19.3	97.35	28		Rain Showers
18:00	21.4	19.7	90	17	11	19.3	97.34	29		Rain Showers
19:00	21.0	19.6	92	13	7	19.3	97.34	28		Mostly Cloudy
20:00	20.7	19.7	94	16	11	16.1	97.35	28		<u>NA</u>
21:00	20.1	19.3	95	14	9	11.3	97.41	27		<u>NA</u>
22:00	19.8	19.0	95	15	5	11.3	97.43			Mostly Cloudy
23:00	19.0	18.6	98	3	4	11.3	97.47			<u>NA</u>

Legend

- E = Estimated
- M = Missing
- NA = Not Available

Date modified:

2018-07-20



Government of Canada

Gouvernement du Canada

Home → Environment and natural resources → Weather, Climate and Hazard → Past weather and climate → Historical Data







Hourly Data Report for June 28, 2018

All times are specified in Local Standard Time (LST). Add 1 hour to adjust for Daylight Saving Time where and when it is observed.

LONDON A
ONTARIO
Current Station Operator: NAVCAN

<u>Latitude:</u>	43°01'59.000" N
<u>Longitude:</u>	81°09'04.000" W
<u>Elevation:</u>	278.00 m
<u>Climate ID:</u>	6144473
<u>WMO ID:</u>	71623
<u>TC ID:</u>	YXU

	<u>Temp</u> °C 	<u>Dew Point</u> <u>Temp</u> °C 	<u>Rel</u> <u>Hum</u> % 	<u>Wind</u>		<u>Visibility</u> km 	<u>Stn</u> <u>Press</u> kPa 	<u>Hmdx</u>	<u>Wind</u> <u>Chill</u>	<u>Weather</u>
				<u>Dir</u> 10's deg	<u>Spd</u> km/h 					
TIME										
00:00	18.6	18.3	98	1	6	11.3	97.47			NA
01:00	19.2	18.9	98	34	7	9.7	97.49			Fog
02:00	19.3	18.9	97	28	7	4.8	97.50			Fog
03:00	18.8	18.4	98	29	11	0.4	97.55			Fog
04:00	17.6	17.3	98	30	11	0.4	97.59			Fog
05:00	17.4	17.1	99	30	12	1.0	97.66			Fog
06:00	16.8	16.6	99	30	13	0.8	97.72			Fog
07:00	16.8	16.6	99	30	14	0.8	97.81			Fog
08:00	18.2	17.4	95	32	12	9.7	97.87			Fog

	<u>Temp</u> °C 	<u>Dew Point Temp</u> °C 	<u>Rel Hum</u> % 	<u>Wind Dir</u> 10's deg	<u>Wind Spd</u> km/h 	<u>Visibility</u> km 	<u>Stn Press</u> kPa 	<u>Hmdx</u>	<u>Wind Chill</u>	<u>Weather</u>
09:00	19.6	17.5	88	32	17	9.7	97.93			Haze
10:00	21.1	17.7	81	29	14	16.1	97.96	27		Mainly Clear
11:00	21.8	18.7	83	29	12	19.3	97.97	28		<u>NA</u>
12:00	21.9	18.0	78	27	16	24.1	98.02	28		<u>NA</u>
13:00	23.1	18.4	75	30	15	24.1	98.00	29		Mainly Clear
14:00	24.5	18.6	69	31	10	24.1	97.95	31		<u>NA</u>
15:00	25.5	18.5	65	27	14	24.1	97.96	32		<u>NA</u>
16:00	26.3	18.1	60	28	8	24.1	97.96	32		Clear
17:00	26.4	18.0	59	28	8	24.1	97.96	32		<u>NA</u>
18:00	26.1	17.5	59	27	13	24.1	97.98	32		<u>NA</u>
19:00	25.2	18.3	65	26	9	24.1	98.01	31		Mainly Clear
20:00	23.7	19.6	78	21	17	24.1	98.06	31		<u>NA</u>
21:00	22.2	19.7	85	21	11	24.1	98.11	30		<u>NA</u>
22:00	21.6	19.4	87	20	9	24.1	98.12	29		Mostly Cloudy
23:00	20.6	18.9	90	23	9	24.1	98.16	27		<u>NA</u>

Legend

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Date modified:

2018-07-20

APPENDIX C

TRAFFIC DATA

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

Site Code: 1
 Station ID: M2/M3
 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/18/18	0	135	26	1	0	1	0	0	3	0	0	0	0	166
01:00	0	99	17	2	0	3	0	1	0	0	0	0	0	122
02:00	2	54	14	0	1	1	0	2	6	0	0	0	0	80
03:00	1	49	10	2	1	3	0	1	2	1	0	0	0	70
04:00	0	49	20	6	0	0	1	0	4	2	0	0	1	83
05:00	1	182	58	5	3	5	0	1	9	0	1	0	3	268
06:00	3	427	171	10	0	18	4	13	9	7	2	0	3	667
07:00	3	822	219	13	4	24	33	25	13	5	6	1	8	1176
08:00	4	846	203	23	7	34	29	31	8	9	13	0	12	1219
09:00	4	580	210	18	8	21	12	25	6	4	5	0	6	899
10:00	8	526	204	14	8	15	12	31	10	6	0	0	9	843
11:00	6	621	206	16	6	15	12	12	21	5	1	0	6	927
12 PM	6	634	217	11	6	21	18	19	10	2	3	2	8	957
13:00	8	732	203	8	10	23	18	18	9	2	2	1	7	1041
14:00	15	719	259	10	10	23	11	30	6	4	1	0	6	1094
15:00	17	934	269	12	8	31	27	33	3	7	3	0	10	1354
16:00	15	1029	213	8	4	40	27	24	7	1	4	2	10	1384
17:00	7	884	225	12	3	29	19	23	6	6	8	2	8	1232
18:00	7	769	198	6	4	19	19	24	7	5	2	1	4	1065
19:00	4	625	152	12	1	23	9	9	2	3	4	0	3	847
20:00	5	585	136	4	1	17	13	12	4	2	3	4	3	789
21:00	6	502	96	3	2	10	4	9	1	1	1	1	0	636
22:00	6	453	86	3	1	13	7	6	0	1	0	1	0	577
23:00	4	318	69	5	0	8	2	12	0	1	0	2	6	427
Day Total	132	12574	3481	204	88	397	277	361	146	74	59	17	113	17923
Percent	0.7%	70.2%	19.4%	1.1%	0.5%	2.2%	1.5%	2.0%	0.8%	0.4%	0.3%	0.1%	0.6%	
AM Peak	10:00	08:00	07:00	08:00	09:00	08:00	07:00	08:00	11:00	08:00	08:00	07:00	08:00	08:00
Vol.	8	846	219	23	8	34	33	31	21	9	13	1	12	1219
PM Peak	15:00	16:00	15:00	15:00	13:00	16:00	15:00	15:00	12:00	15:00	17:00	20:00	15:00	16:00
Vol.	17	1029	269	12	10	40	27	33	10	7	8	4	10	1384

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 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/19/18	1	119	21	2	0	1	0	1	0	0	0	0	0	145
01:00	0	99	16	1	0	2	0	1	1	0	0	0	0	120
02:00	1	54	10	0	1	0	0	1	1	0	0	0	0	68
03:00	0	47	16	3	0	0	0	1	3	0	0	0	0	70
04:00	0	43	15	4	1	0	1	1	2	1	0	0	1	69
05:00	1	161	62	6	2	7	3	5	6	1	1	0	4	259
06:00	2	462	170	8	0	13	7	10	9	6	1	0	1	689
07:00	3	826	218	6	5	23	25	26	12	6	4	2	6	1162
08:00	7	900	194	12	7	35	31	28	8	8	10	0	10	1250
09:00	5	564	186	19	6	17	18	26	6	4	4	0	7	862
10:00	5	551	175	12	5	20	14	16	8	4	1	0	8	819
11:00	10	600	225	13	5	11	12	24	10	11	0	1	5	927
12 PM	7	582	204	16	5	18	14	18	12	6	3	1	2	888
13:00	6	658	213	16	10	17	14	41	8	7	3	0	4	997
14:00	10	711	236	20	8	15	16	36	5	10	3	0	9	1079
15:00	7	946	306	14	3	30	41	33	7	7	3	1	7	1405
16:00	12	985	267	8	6	32	38	30	5	4	3	1	9	1400
17:00	14	844	229	10	3	33	26	28	3	4	2	3	6	1205
18:00	10	737	192	9	1	15	12	23	5	9	2	1	2	1018
19:00	7	623	143	6	2	19	10	10	7	5	0	1	3	836
20:00	7	576	134	1	2	18	14	14	6	2	1	2	3	780
21:00	6	460	86	2	0	11	6	11	0	0	1	1	0	584
22:00	4	473	77	0	0	12	9	7	0	0	0	1	0	583
23:00	8	316	67	3	0	8	1	7	0	1	0	1	3	415
Day Total	133	12337	3462	191	72	357	312	398	124	96	42	16	90	17630
Percent	0.8%	70.0%	19.6%	1.1%	0.4%	2.0%	1.8%	2.3%	0.7%	0.5%	0.2%	0.1%	0.5%	
AM Peak	11:00	08:00	11:00	09:00	08:00	08:00	08:00	08:00	07:00	11:00	08:00	07:00	08:00	08:00
Vol.	10	900	225	19	7	35	31	28	12	11	10	2	10	1250
PM Peak	17:00	16:00	15:00	14:00	13:00	17:00	15:00	13:00	12:00	14:00	12:00	17:00	14:00	15:00
Vol.	14	985	306	20	10	33	41	41	12	10	3	3	9	1405

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/20/18	1	117	27	1	0	0	0	1	1	0	0	0	0	148
01:00	0	89	15	2	0	2	0	0	0	0	0	0	0	108
02:00	0	67	14	0	1	2	0	0	3	0	0	0	0	87
03:00	0	48	12	3	0	0	0	0	3	0	0	0	0	66
04:00	0	49	15	4	2	0	2	1	1	1	0	0	0	75
05:00	0	168	53	4	3	6	1	0	2	0	0	1	3	241
06:00	3	410	177	12	1	20	5	17	7	7	2	1	2	664
07:00	2	779	224	20	4	22	37	22	17	3	7	1	11	1149
08:00	3	927	221	24	4	26	38	28	6	9	8	0	13	1307
09:00	7	575	216	14	11	18	9	28	5	3	6	0	6	898
10:00	7	576	203	15	5	18	14	21	6	9	1	1	11	887
11:00	7	618	201	17	6	18	13	11	10	6	2	0	7	916
12 PM	4	600	241	16	8	18	19	26	12	6	4	1	3	958
13:00	8	734	212	18	6	22	11	40	5	8	5	0	6	1075
14:00	16	726	275	13	9	14	15	47	3	4	2	0	6	1130
15:00	10	861	284	15	4	20	26	36	2	6	2	0	5	1271
16:00	12	1035	252	11	4	31	31	27	3	7	2	1	9	1425
17:00	9	929	248	12	4	25	28	28	4	6	7	0	7	1307
18:00	7	881	226	10	2	24	12	34	6	0	2	0	4	1208
19:00	5	604	153	9	1	18	13	12	2	8	2	0	4	831
20:00	6	537	114	6	1	23	11	9	3	4	2	1	4	721
21:00	5	471	86	3	1	12	4	7	0	1	0	1	2	593
22:00	3	443	82	3	1	16	8	8	0	1	0	1	0	566
23:00	4	352	63	2	0	6	4	8	0	0	0	2	1	442
Day Total	119	12596	3614	234	78	361	301	411	101	89	54	11	104	18073
Percent	0.7%	69.7%	20.0%	1.3%	0.4%	2.0%	1.7%	2.3%	0.6%	0.5%	0.3%	0.1%	0.6%	
AM Peak	09:00	08:00	07:00	08:00	09:00	08:00	08:00	08:00	07:00	08:00	08:00	05:00	08:00	08:00
Vol.	7	927	224	24	11	26	38	28	17	9	8	1	13	1307
PM Peak	14:00	16:00	15:00	13:00	14:00	16:00	16:00	14:00	12:00	13:00	17:00	23:00	16:00	16:00
Vol.	16	1035	284	18	9	31	31	47	12	8	7	2	9	1425

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 Highbury Ave S between Thames River &
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 Date Start: 18-Jun-18
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 Date Start: 18-Jun-18

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/21/18	0	125	25	1	0	1	0	0	1	0	0	0	0	153
01:00	0	79	13	0	0	2	0	0	0	0	0	0	0	94
02:00	1	49	16	1	0	1	0	1	1	0	0	0	0	70
03:00	0	58	10	1	1	2	0	0	0	1	0	0	0	73
04:00	0	45	18	4	1	0	0	1	3	1	0	0	1	74
05:00	1	175	57	13	6	3	0	2	12	0	3	0	0	272
06:00	6	440	180	14	0	19	1	8	11	7	1	0	3	690
07:00	2	834	264	13	6	24	22	35	15	11	5	2	1	1234
08:00	3	835	224	18	7	31	23	31	7	11	11	0	10	1211
09:00	4	616	197	24	5	22	23	28	7	5	8	1	15	955
10:00	8	549	197	11	8	15	13	30	8	6	0	0	5	850
11:00	4	601	194	11	8	14	10	14	21	2	1	0	7	887
12 PM	7	633	237	18	8	19	18	25	10	6	6	2	3	992
13:00	5	690	224	15	7	17	15	27	10	3	1	0	6	1020
14:00	12	733	229	11	8	20	15	47	4	6	5	2	5	1097
15:00	8	894	281	14	7	26	25	42	4	5	3	0	11	1320
16:00	14	1021	252	10	5	34	41	28	3	2	4	1	3	1418
17:00	8	918	235	11	2	29	30	27	4	3	6	2	4	1279
18:00	5	715	187	10	1	24	11	28	6	1	2	2	4	996
19:00	7	577	146	7	3	18	12	11	2	7	2	1	2	795
20:00	5	577	136	5	2	16	15	8	4	2	3	0	3	776
21:00	6	527	98	3	1	11	7	9	1	0	1	1	0	665
22:00	2	452	79	1	0	13	11	10	0	0	0	0	0	568
23:00	4	351	66	1	1	10	7	8	0	0	0	1	1	450
Day Total	112	12494	3565	217	87	371	299	420	134	79	62	15	84	17939
Percent	0.6%	69.6%	19.9%	1.2%	0.5%	2.1%	1.7%	2.3%	0.7%	0.4%	0.3%	0.1%	0.5%	
AM Peak	10:00	08:00	07:00	09:00	10:00	08:00	08:00	07:00	11:00	07:00	08:00	07:00	09:00	07:00
Vol.	8	835	264	24	8	31	23	35	21	11	11	2	15	1234
PM Peak	16:00	16:00	15:00	12:00	12:00	16:00	16:00	14:00	12:00	19:00	12:00	12:00	15:00	16:00
Vol.	14	1021	281	18	8	34	41	47	10	7	6	2	11	1418

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06/22/18	0	115	25	0	0	0	0	0	2	0	0	0	0	142
01:00	1	92	16	1	0	1	0	1	0	0	0	0	0	112
02:00	0	62	18	0	1	1	0	1	2	0	0	0	0	85
03:00	0	49	14	0	0	1	0	1	1	0	0	0	0	66
04:00	0	54	22	1	0	0	1	0	2	0	0	0	1	81
05:00	2	161	57	9	1	7	0	3	7	2	1	0	0	250
06:00	6	427	161	16	1	25	12	12	7	2	3	1	4	677
07:00	2	793	216	13	3	26	27	24	11	9	9	1	8	1142
08:00	3	857	217	21	7	30	28	31	10	7	11	1	11	1234
09:00	3	623	218	22	8	23	19	26	6	5	6	0	10	969
10:00	6	541	196	12	8	20	15	24	13	3	0	0	7	845
11:00	4	605	201	17	6	16	14	27	10	4	7	0	6	917
12 PM	4	707	221	18	5	27	20	29	10	12	2	2	13	1070
13:00	5	665	225	23	4	17	14	35	9	4	5	0	8	1014
14:00	11	768	244	12	9	26	15	31	6	7	4	0	9	1142
15:00	10	916	267	12	2	23	26	40	3	4	3	0	6	1312
16:00	15	1013	237	9	5	36	33	24	4	3	3	1	10	1393
17:00	5	869	238	11	3	28	30	31	4	5	5	1	6	1236
18:00	3	727	186	9	1	18	10	31	6	4	1	0	3	999
19:00	7	647	149	7	2	23	11	13	3	5	2	1	5	875
20:00	5	581	134	1	2	13	14	11	6	4	1	4	6	782
21:00	6	526	94	3	0	12	6	10	0	0	1	1	0	659
22:00	5	465	84	2	1	14	7	8	0	1	0	2	0	589
23:00	6	367	78	4	0	8	4	9	0	1	0	1	4	482
Day Total	109	12630	3518	223	69	395	306	422	122	82	64	16	117	18073
Percent	0.6%	69.9%	19.5%	1.2%	0.4%	2.2%	1.7%	2.3%	0.7%	0.5%	0.4%	0.1%	0.6%	
AM Peak	06:00	08:00	09:00	09:00	09:00	08:00	08:00	08:00	10:00	07:00	08:00	06:00	08:00	08:00
Vol.	6	857	218	22	8	30	28	31	13	9	11	1	11	1234
PM Peak	16:00	16:00	15:00	13:00	14:00	16:00	16:00	15:00	12:00	12:00	13:00	20:00	12:00	16:00
Vol.	15	1013	267	23	9	36	33	40	10	12	5	4	13	1393

Ontario Traffic, Inc.
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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/23/18	2	217	28	11	0	3	0	2	2	1	0	2	0	268
01:00	2	119	26	4	1	0	0	2	2	0	0	2	0	158
02:00	1	124	17	2	0	1	0	0	2	0	0	2	0	149
03:00	0	78	9	2	0	0	0	1	3	0	0	1	0	94
04:00	0	43	12	2	0	0	0	1	3	0	0	2	0	63
05:00	0	117	21	1	0	5	1	0	3	0	0	4	1	153
06:00	2	200	56	2	2	2	1	2	4	2	0	3	4	280
07:00	1	343	109	4	0	6	5	4	6	1	1	0	2	482
08:00	3	477	117	6	1	7	4	11	5	0	1	0	0	632
09:00	1	512	128	4	2	9	12	12	0	0	1	1	4	686
10:00	5	603	187	4	3	16	19	24	0	0	1	0	3	865
11:00	4	717	179	2	3	20	25	19	2	2	0	1	2	976
12 PM	4	770	173	5	2	21	17	23	2	4	3	1	3	1028
13:00	8	818	184	4	1	19	26	31	4	3	2	0	4	1104
14:00	7	692	199	4	0	15	31	23	1	1	2	2	1	978
15:00	4	759	170	3	1	23	24	28	3	0	2	0	2	1019
16:00	4	752	162	2	3	15	13	12	2	1	1	1	4	972
17:00	6	693	171	5	2	21	18	20	0	4	2	0	3	945
18:00	3	646	139	4	1	15	14	8	1	1	2	0	1	835
19:00	3	610	120	3	0	10	7	10	1	2	0	0	0	766
20:00	2	480	108	3	1	4	8	6	2	2	1	0	0	617
21:00	6	476	81	7	0	6	8	8	0	0	1	0	0	593
22:00	3	383	71	3	0	2	5	2	1	0	0	0	1	471
23:00	2	316	54	2	0	7	3	1	1	0	0	0	1	387
Day Total	73	10945	2521	89	23	227	241	250	50	24	20	22	36	14521
Percent	0.5%	75.4%	17.4%	0.6%	0.2%	1.6%	1.7%	1.7%	0.3%	0.2%	0.1%	0.2%	0.2%	
AM Peak	10:00	11:00	10:00	00:00	10:00	11:00	11:00	10:00	07:00	06:00	07:00	05:00	06:00	11:00
Vol.	5	717	187	11	3	20	25	24	6	2	1	4	4	976
PM Peak	13:00	13:00	14:00	21:00	16:00	15:00	14:00	13:00	13:00	12:00	12:00	14:00	13:00	13:00
Vol.	8	818	199	7	3	23	31	31	4	4	3	2	4	1104

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NB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/24/18	2	228	30	13	1	2	1	4	0	0	0	0	0	281
01:00	0	175	36	0	0	3	0	3	0	0	0	0	0	217
02:00	0	101	11	1	0	2	0	0	0	0	0	0	0	115
03:00	0	57	7	1	0	0	0	1	0	0	0	0	0	66
04:00	0	49	11	0	1	0	0	0	0	0	0	1	0	62
05:00	0	81	14	1	0	5	0	0	1	0	0	0	0	102
06:00	0	112	17	0	0	0	0	0	3	1	0	0	0	133
07:00	3	204	60	2	1	4	3	2	0	0	1	0	0	280
08:00	2	277	77	2	0	1	0	3	0	1	1	0	2	366
09:00	2	426	105	1	0	5	12	7	3	2	1	0	3	567
10:00	5	580	135	5	0	13	10	14	0	0	1	0	4	767
11:00	4	608	153	3	0	8	12	10	2	2	0	0	0	802
12 PM	8	661	158	3	0	12	18	23	0	0	3	0	0	886
13:00	11	672	178	2	0	19	20	24	0	1	3	0	2	932
14:00	6	690	153	1	2	22	24	10	1	3	1	1	1	915
15:00	10	682	166	3	2	17	16	19	0	1	4	0	2	922
16:00	5	622	134	3	1	14	16	20	1	1	2	0	1	820
17:00	10	687	124	1	0	15	14	18	0	3	0	0	1	873
18:00	4	634	142	2	0	16	14	13	2	3	1	0	4	835
19:00	5	628	141	2	0	11	16	12	0	1	5	1	1	823
20:00	9	643	126	2	0	15	15	13	1	1	1	0	0	826
21:00	9	545	88	3	0	11	10	12	1	0	2	1	0	682
22:00	4	448	88	2	0	4	7	7	0	1	2	0	0	563
23:00	2	264	43	13	0	5	2	1	1	1	0	0	1	333
Day Total	101	10074	2197	66	8	204	210	216	16	22	28	4	22	13168
Percent	0.8%	76.5%	16.7%	0.5%	0.1%	1.5%	1.6%	1.6%	0.1%	0.2%	0.2%	0.0%	0.2%	
AM Peak	10:00	11:00	11:00	00:00	00:00	10:00	09:00	10:00	06:00	09:00	07:00	04:00	10:00	11:00
Vol.	5	608	153	13	1	13	12	14	3	2	1	1	4	802
PM Peak	13:00	14:00	13:00	23:00	14:00	14:00	14:00	13:00	18:00	14:00	19:00	14:00	18:00	13:00
Vol.	11	690	178	13	2	22	24	24	2	3	5	1	4	932

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 Highbury Ave S between Thames River &
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 Date Start: 18-Jun-18
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Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/25/18	1	123	27	2	0	2	0	1	0	0	0	0	0	156
01:00	1	84	22	1	0	1	0	1	1	0	0	0	0	111
02:00	1	57	10	2	2	1	0	2	0	1	0	0	0	76
03:00	1	37	13	2	1	0	0	0	1	0	0	0	0	55
04:00	0	50	18	1	1	1	2	0	2	0	0	0	1	76
05:00	2	190	70	7	1	11	0	4	5	1	1	0	1	293
06:00	1	479	130	5	2	14	14	13	8	3	3	0	4	676
07:00	4	835	196	14	11	28	28	28	10	5	12	1	9	1181
08:00	6	827	267	20	16	31	14	35	10	4	10	0	8	1248
09:00	4	655	225	16	9	19	13	28	11	2	1	0	3	986
10:00	8	567	206	10	6	12	9	17	19	5	0	0	4	863
11:00	8	591	191	12	4	21	15	8	10	3	0	1	3	867
12 PM	4	643	198	9	5	19	20	20	8	2	1	1	10	940
13:00	13	691	231	16	10	15	11	33	8	7	1	0	6	1042
14:00	9	729	238	8	4	16	20	33	2	2	4	0	5	1070
15:00	10	960	231	12	3	28	26	26	5	5	1	0	10	1317
16:00	7	997	255	12	2	29	32	39	4	8	2	2	6	1395
17:00	3	927	248	10	3	31	21	36	8	3	5	1	8	1304
18:00	6	785	182	7	2	20	10	20	2	3	0	1	7	1045
19:00	8	604	144	6	1	29	12	12	5	4	5	0	3	833
20:00	7	595	121	3	0	13	6	7	1	0	2	1	0	756
21:00	1	521	95	1	0	13	6	4	0	0	0	1	0	642
22:00	7	453	79	4	0	9	7	4	0	0	0	1	0	564
23:00	1	383	60	3	0	2	0	3	1	0	0	0	0	453
Day Total	113	12783	3457	183	83	365	266	374	121	58	48	10	88	17949
Percent	0.6%	71.2%	19.3%	1.0%	0.5%	2.0%	1.5%	2.1%	0.7%	0.3%	0.3%	0.1%	0.5%	
AM Peak	10:00	07:00	08:00	08:00	08:00	08:00	07:00	08:00	10:00	07:00	07:00	07:00	07:00	08:00
Vol.	8	835	267	20	16	31	28	35	19	5	12	1	9	1248
PM Peak	13:00	16:00	16:00	13:00	13:00	17:00	16:00	16:00	12:00	16:00	17:00	16:00	12:00	16:00
Vol.	13	997	255	16	10	31	32	39	8	8	5	2	10	1395
Grand Total	892	96433	25815	1407	508	2677	2212	2852	814	524	377	111	654	135276
Percent	0.7%	71.3%	19.1%	1.0%	0.4%	2.0%	1.6%	2.1%	0.6%	0.4%	0.3%	0.1%	0.5%	

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 Highbury Ave S between Thames River &
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 Date Start: 18-Jun-18
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SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/18/18	0	79	36	0	0	3	0	0	4	0	0	0	1	123
01:00	2	46	14	4	0	1	0	0	3	0	0	0	2	72
02:00	0	55	17	0	1	0	0	1	4	1	0	1	0	80
03:00	1	54	19	2	0	1	0	1	9	0	0	0	0	87
04:00	0	77	44	4	2	1	0	0	3	0	0	0	1	132
05:00	3	307	138	15	4	1	6	8	6	0	1	1	5	495
06:00	5	624	241	22	2	15	15	34	6	4	3	0	2	973
07:00	10	713	179	17	7	41	32	37	2	5	6	2	13	1064
08:00	16	654	181	15	10	44	15	25	0	1	9	3	12	985
09:00	5	540	225	17	14	21	10	28	9	8	5	2	7	891
10:00	4	493	222	19	2	27	11	32	14	5	5	2	8	844
11:00	3	508	250	18	13	22	15	23	7	10	3	1	10	883
12 PM	6	604	249	11	5	20	20	20	13	1	1	0	10	960
13:00	9	670	232	14	13	21	16	23	6	7	3	0	12	1026
14:00	2	702	254	25	7	18	19	37	9	9	6	2	7	1097
15:00	5	855	317	11	4	22	20	33	6	6	4	2	7	1292
16:00	5	946	216	14	7	30	20	30	2	5	5	0	5	1285
17:00	8	889	226	9	5	33	21	39	2	4	6	4	4	1250
18:00	6	811	237	6	3	20	16	21	1	8	3	2	1	1135
19:00	12	620	160	6	4	12	6	17	1	3	1	1	2	845
20:00	9	519	173	5	1	8	14	16	6	1	0	3	4	759
21:00	3	458	142	5	1	10	12	13	3	2	1	1	1	652
22:00	0	376	120	3	2	1	3	10	0	0	0	2	2	519
23:00	1	286	86	2	0	6	4	7	5	1	0	0	0	398
Day Total	115	11886	3978	244	107	378	275	455	121	81	62	29	116	17847
Percent	0.6%	66.6%	22.3%	1.4%	0.6%	2.1%	1.5%	2.5%	0.7%	0.5%	0.3%	0.2%	0.6%	
AM Peak	08:00	07:00	11:00	06:00	09:00	08:00	07:00	07:00	10:00	11:00	08:00	08:00	07:00	07:00
Vol.	16	713	250	22	14	44	32	37	14	10	9	3	13	1064
PM Peak	19:00	16:00	15:00	14:00	13:00	17:00	17:00	17:00	12:00	14:00	14:00	17:00	13:00	15:00
Vol.	12	946	317	25	13	33	21	39	13	9	6	4	12	1292

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06/19/18	0	64	28	0	0	1	0	0	1	0	1	0	1	96
01:00	0	53	17	2	0	0	0	0	1	0	0	1	1	75
02:00	0	53	14	0	2	1	0	2	1	0	0	0	0	73
03:00	1	63	22	2	0	0	0	1	1	1	0	1	0	92
04:00	1	70	35	3	2	0	0	0	2	0	0	1	1	115
05:00	0	280	155	8	5	3	4	4	4	0	1	1	4	469
06:00	4	680	252	23	2	24	16	27	6	5	4	0	1	1044
07:00	14	731	217	13	6	33	39	30	2	5	12	4	9	1115
08:00	8	682	143	21	9	42	23	27	3	4	5	1	8	976
09:00	6	567	223	18	8	21	14	28	9	5	7	4	12	922
10:00	7	440	225	20	11	23	15	25	10	5	3	0	9	793
11:00	4	482	254	13	8	20	14	21	5	9	4	1	8	843
12 PM	10	597	204	10	12	17	13	19	17	6	1	1	10	917
13:00	6	655	225	14	12	18	13	31	12	9	4	0	8	1007
14:00	2	703	264	14	5	25	21	40	9	5	5	1	8	1102
15:00	6	856	317	12	5	22	20	32	6	4	7	2	7	1296
16:00	8	928	231	15	4	18	29	31	0	6	4	1	5	1280
17:00	7	916	208	12	5	22	23	28	2	2	5	0	5	1235
18:00	11	793	202	3	5	21	26	22	5	1	2	1	8	1100
19:00	10	615	168	4	3	9	8	14	1	2	0	0	1	835
20:00	4	506	152	2	2	8	17	16	0	4	1	2	3	717
21:00	0	435	161	2	0	6	9	15	3	0	0	1	3	635
22:00	4	356	137	2	0	6	5	4	0	0	0	3	2	519
23:00	0	323	77	3	2	3	0	2	0	0	0	0	0	410
Day Total	113	11848	3931	216	108	343	309	419	100	73	66	26	114	17666
Percent	0.6%	67.1%	22.3%	1.2%	0.6%	1.9%	1.7%	2.4%	0.6%	0.4%	0.4%	0.1%	0.6%	
AM Peak	07:00	07:00	11:00	06:00	10:00	08:00	07:00	07:00	10:00	11:00	07:00	07:00	09:00	07:00
Vol.	14	731	254	23	11	42	39	30	10	9	12	4	12	1115
PM Peak	18:00	16:00	15:00	16:00	12:00	14:00	16:00	14:00	12:00	13:00	15:00	22:00	12:00	15:00
Vol.	11	928	317	15	12	25	29	40	17	9	7	3	10	1296

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06/20/18	1	69	29	1	0	0	0	0	1	0	0	0	1	102
01:00	1	42	14	3	0	2	0	1	1	1	0	0	0	65
02:00	1	56	11	2	0	1	0	0	2	0	0	0	0	73
03:00	2	61	17	2	0	1	0	1	0	2	0	1	0	87
04:00	1	75	39	4	3	1	1	1	4	0	0	0	1	130
05:00	2	303	146	13	5	8	3	7	1	3	0	0	1	492
06:00	8	634	235	24	4	13	25	28	4	5	3	2	7	992
07:00	17	753	165	13	10	41	21	26	5	2	5	1	4	1063
08:00	11	650	193	17	5	29	13	31	2	1	7	3	8	970
09:00	8	519	222	19	7	20	12	32	6	3	8	3	13	872
10:00	3	455	214	19	4	21	11	31	14	7	4	1	6	790
11:00	6	484	258	13	8	18	12	31	6	16	5	2	5	864
12 PM	9	592	244	14	7	22	16	22	13	2	2	0	8	951
13:00	8	652	224	17	14	15	12	30	10	12	5	5	4	1008
14:00	1	688	251	28	10	19	16	41	10	12	7	2	3	1088
15:00	4	851	317	16	5	23	21	28	9	6	7	3	9	1299
16:00	10	845	254	17	6	17	25	23	7	4	7	5	8	1228
17:00	5	896	219	10	5	19	21	26	1	5	6	4	3	1220
18:00	5	813	222	4	4	13	20	17	1	5	5	1	6	1116
19:00	3	584	145	7	2	17	23	18	0	2	3	2	9	815
20:00	5	500	171	5	3	10	12	21	2	2	0	2	5	738
21:00	8	417	145	6	0	6	9	11	7	0	0	0	2	611
22:00	6	395	117	1	0	4	5	7	3	0	0	0	0	538
23:00	1	272	77	6	1	4	1	4	4	0	0	0	0	370
Day Total	126	11606	3929	261	103	324	279	437	113	90	74	37	103	17482
Percent	0.7%	66.4%	22.5%	1.5%	0.6%	1.9%	1.6%	2.5%	0.6%	0.5%	0.4%	0.2%	0.6%	
AM Peak	07:00	07:00	11:00	06:00	07:00	07:00	06:00	09:00	10:00	11:00	09:00	08:00	09:00	07:00
Vol.	17	753	258	24	10	41	25	32	14	16	8	3	13	1063
PM Peak	16:00	17:00	15:00	14:00	13:00	15:00	16:00	14:00	12:00	13:00	14:00	13:00	15:00	15:00
Vol.	10	896	317	28	14	23	25	41	13	12	7	5	9	1299

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

Site Code: 1
 Station ID: M2/M3
 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/21/18	0	69	31	2	0	5	0	0	0	6	0	0	0	113
01:00	0	54	17	1	0	1	0	0	1	0	0	0	1	75
02:00	0	57	15	0	1	0	0	1	1	1	0	1	0	77
03:00	1	60	11	2	0	1	0	1	3	0	0	0	0	79
04:00	2	85	36	6	1	1	0	0	2	0	0	0	1	134
05:00	4	326	127	19	3	3	8	11	3	1	1	1	5	512
06:00	6	579	237	20	6	22	11	34	7	4	4	2	7	939
07:00	16	789	136	14	12	50	28	30	5	3	6	2	10	1101
08:00	17	684	175	12	8	37	21	19	3	4	7	2	4	993
09:00	6	582	215	21	7	20	13	29	8	7	7	6	5	926
10:00	6	480	221	13	2	28	12	27	8	6	4	2	9	818
11:00	6	504	246	12	5	22	16	19	6	6	4	1	8	855
12 PM	7	601	209	11	11	16	15	21	12	4	2	2	7	918
13:00	10	664	231	8	12	23	15	29	11	8	3	1	9	1024
14:00	3	672	240	22	11	18	15	44	7	8	6	2	10	1058
15:00	4	862	301	10	4	28	19	21	10	5	7	2	14	1287
16:00	14	868	222	14	7	18	23	22	4	4	3	0	7	1206
17:00	10	932	203	10	4	21	20	31	1	1	7	0	4	1244
18:00	8	823	235	7	3	24	22	18	2	3	2	1	2	1150
19:00	8	640	144	1	3	12	5	15	1	5	0	0	4	838
20:00	4	462	148	4	3	7	11	17	3	2	0	2	1	664
21:00	7	454	143	1	0	5	11	12	2	2	0	0	2	639
22:00	6	402	132	1	1	4	4	7	1	0	1	1	5	565
23:00	2	273	81	4	1	5	3	7	1	1	0	0	0	378
Day Total	147	11922	3756	215	105	371	272	415	102	81	64	28	115	17593
Percent	0.8%	67.8%	21.3%	1.2%	0.6%	2.1%	1.5%	2.4%	0.6%	0.5%	0.4%	0.2%	0.7%	
AM Peak	08:00	07:00	11:00	09:00	07:00	07:00	07:00	06:00	09:00	09:00	08:00	09:00	07:00	07:00
Vol.	17	789	246	21	12	50	28	34	8	7	7	6	10	1101
PM Peak	16:00	17:00	15:00	14:00	13:00	15:00	16:00	14:00	12:00	13:00	15:00	12:00	15:00	15:00
Vol.	14	932	301	22	12	28	23	44	12	8	7	2	14	1287

Ontario Traffic, Inc.
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Site Code: 1
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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/22/18	1	63	31	1	0	4	0	0	1	0	0	0	3	104
01:00	0	44	17	2	0	0	0	0	1	0	0	0	0	64
02:00	0	64	13	0	1	1	0	1	1	0	0	0	0	81
03:00	1	63	14	1	0	1	1	1	1	0	0	0	0	83
04:00	0	74	41	1	4	1	1	0	1	0	0	0	0	123
05:00	6	281	156	10	6	5	7	4	3	1	0	0	2	481
06:00	7	613	250	18	4	10	16	37	6	2	5	2	6	976
07:00	14	751	168	20	6	50	31	34	3	3	8	1	12	1101
08:00	15	654	209	17	12	40	17	22	1	2	9	4	13	1015
09:00	9	556	211	23	7	19	16	27	4	5	8	8	11	904
10:00	6	457	243	19	11	22	14	25	10	5	6	0	14	832
11:00	4	493	206	10	11	18	10	22	9	9	4	3	8	807
12 PM	7	602	284	12	8	23	21	24	8	7	2	0	10	1008
13:00	6	577	206	8	9	23	14	28	12	8	2	0	7	900
14:00	4	692	238	18	5	17	20	28	7	5	3	2	6	1045
15:00	16	847	249	17	12	40	31	38	6	6	3	0	6	1271
16:00	17	975	198	12	6	36	24	25	4	3	6	0	11	1317
17:00	5	887	217	11	5	23	22	30	1	5	6	1	3	1216
18:00	9	828	232	4	5	20	22	21	4	3	2	1	4	1155
19:00	6	627	146	3	1	10	15	15	0	2	2	1	6	834
20:00	7	502	183	4	5	9	12	18	1	2	0	2	3	748
21:00	2	419	141	4	0	8	8	11	5	0	1	3	3	605
22:00	2	409	125	1	1	5	6	11	2	0	0	0	2	564
23:00	3	278	84	6	0	6	2	5	3	1	0	0	0	388
Day Total	147	11756	3862	222	119	391	310	427	94	69	67	28	130	17622
Percent	0.8%	66.7%	21.9%	1.3%	0.7%	2.2%	1.8%	2.4%	0.5%	0.4%	0.4%	0.2%	0.7%	
AM Peak	08:00	07:00	06:00	09:00	08:00	07:00	07:00	06:00	10:00	11:00	08:00	09:00	10:00	07:00
Vol.	15	751	250	23	12	50	31	37	10	9	9	8	14	1101
PM Peak	16:00	16:00	12:00	14:00	15:00	15:00	15:00	15:00	13:00	13:00	16:00	21:00	16:00	16:00
Vol.	17	975	284	18	12	40	31	38	12	8	6	3	11	1317

Ontario Traffic, Inc.
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Site Code: 1
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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/23/18	1	140	41	2	1	2	2	6	4	0	0	2	1	202
01:00	2	90	37	2	0	0	1	0	2	0	0	1	0	135
02:00	0	86	29	2	1	0	0	0	1	0	0	1	2	122
03:00	1	69	17	1	0	1	0	0	2	1	0	0	0	92
04:00	0	54	21	1	1	0	0	0	1	0	0	0	1	79
05:00	1	153	54	7	1	1	0	2	1	0	0	0	2	222
06:00	1	223	76	7	3	4	5	9	3	1	0	0	0	332
07:00	4	354	111	7	0	10	3	8	3	0	2	0	2	504
08:00	1	422	170	8	4	12	11	12	1	6	1	0	2	650
09:00	3	526	206	9	5	15	13	20	8	0	3	1	3	812
10:00	1	706	230	6	3	21	17	33	3	2	1	0	4	1027
11:00	3	720	246	8	4	19	19	26	1	3	1	0	0	1050
12 PM	4	801	219	6	2	19	24	29	2	2	2	2	3	1115
13:00	2	812	235	0	5	22	23	21	3	5	4	0	1	1133
14:00	5	782	236	3	3	17	22	36	2	3	2	1	1	1113
15:00	7	744	208	3	4	18	24	30	2	1	3	2	4	1050
16:00	2	780	216	2	1	21	19	21	2	3	0	0	3	1070
17:00	5	621	196	2	2	13	21	14	0	4	0	0	1	879
18:00	2	606	203	3	3	14	9	12	0	1	2	0	0	855
19:00	4	478	169	5	1	3	13	16	0	2	0	0	1	692
20:00	3	483	139	3	0	10	13	9	2	1	1	0	1	665
21:00	3	508	149	4	1	11	11	17	0	2	0	1	0	707
22:00	3	374	105	1	1	6	6	4	2	0	1	0	1	504
23:00	6	258	71	5	0	1	2	6	1	0	0	0	0	350
Day Total	64	10790	3384	97	46	240	258	331	46	37	23	11	33	15360
Percent	0.4%	70.2%	22.0%	0.6%	0.3%	1.6%	1.7%	2.2%	0.3%	0.2%	0.1%	0.1%	0.2%	
AM Peak	07:00	11:00	11:00	09:00	09:00	10:00	11:00	10:00	09:00	08:00	09:00	00:00	10:00	11:00
Vol.	4	720	246	9	5	21	19	33	8	6	3	2	4	1050
PM Peak	15:00	13:00	14:00	12:00	13:00	13:00	12:00	14:00	13:00	13:00	13:00	12:00	15:00	13:00
Vol.	7	812	236	6	5	22	24	36	3	5	4	2	4	1133

Ontario Traffic, Inc.
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Site Code: 1
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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/24/18	1	224	49	0	0	1	1	0	1	0	0	0	0	277
01:00	0	128	35	1	0	3	2	1	0	0	0	0	0	170
02:00	0	100	29	1	0	1	0	1	0	0	0	0	1	133
03:00	1	59	12	1	0	0	0	0	0	0	0	0	0	73
04:00	1	35	11	1	0	0	0	0	0	0	0	1	2	51
05:00	0	71	15	0	0	1	1	2	1	0	0	0	0	91
06:00	0	175	44	0	0	0	0	4	2	0	0	0	1	226
07:00	1	180	76	0	0	4	4	4	1	0	0	0	0	270
08:00	3	309	88	13	2	9	3	5	0	1	0	0	2	435
09:00	2	434	157	2	1	9	11	18	3	0	1	0	2	640
10:00	6	630	183	5	2	13	25	22	1	0	2	1	0	890
11:00	3	720	252	2	3	22	28	23	2	2	0	0	3	1060
12 PM	13	789	227	2	1	9	21	30	1	5	0	0	0	1098
13:00	9	744	223	1	3	15	24	23	0	3	2	1	0	1048
14:00	10	742	204	2	0	19	17	34	0	4	2	0	2	1036
15:00	8	692	202	1	0	9	15	23	2	0	2	0	1	955
16:00	4	618	193	2	1	13	17	13	0	4	1	0	2	868
17:00	3	661	197	2	2	11	16	20	5	3	1	1	0	922
18:00	6	578	168	2	2	15	18	19	3	2	1	1	1	816
19:00	12	489	156	2	0	13	13	13	2	2	0	0	1	703
20:00	9	455	134	2	2	13	9	15	0	1	0	0	4	644
21:00	3	435	110	3	2	5	10	11	0	1	1	0	1	582
22:00	4	357	101	3	0	2	3	6	3	0	0	0	1	480
23:00	4	178	57	2	1	2	2	3	1	0	0	0	0	250
Day Total	103	9803	2923	50	22	189	240	290	28	28	13	5	24	13718
Percent	0.8%	71.5%	21.3%	0.4%	0.2%	1.4%	1.7%	2.1%	0.2%	0.2%	0.1%	0.0%	0.2%	
AM Peak	10:00	11:00	11:00	08:00	11:00	11:00	11:00	11:00	09:00	11:00	10:00	04:00	11:00	11:00
Vol.	6	720	252	13	3	22	28	23	3	2	2	1	3	1060
PM Peak	12:00	12:00	12:00	21:00	13:00	14:00	13:00	14:00	17:00	12:00	13:00	13:00	20:00	12:00
Vol.	13	789	227	3	3	19	24	34	5	5	2	1	4	1098

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/25/18	0	78	37	0	0	3	0	0	2	0	0	0	0	120
01:00	2	51	15	2	0	1	0	0	1	0	0	0	0	72
02:00	0	55	15	0	2	0	0	1	0	0	0	0	0	73
03:00	1	55	22	4	0	0	0	1	1	0	0	0	0	84
04:00	0	76	41	7	2	0	0	1	2	0	0	0	0	129
05:00	1	308	143	15	6	8	4	9	1	1	0	0	0	496
06:00	2	624	257	23	2	27	14	24	3	7	2	1	2	988
07:00	17	756	180	12	4	48	37	23	3	3	14	1	8	1106
08:00	12	638	196	15	10	35	17	20	3	5	7	2	7	967
09:00	6	571	224	24	10	19	15	25	6	6	5	4	10	925
10:00	4	476	227	21	6	25	14	16	2	4	4	2	7	808
11:00	9	472	274	21	10	27	18	20	2	7	2	0	11	873
12 PM	5	584	247	11	5	15	21	20	8	1	1	0	13	931
13:00	5	647	241	14	9	23	21	29	5	6	3	0	7	1010
14:00	2	707	254	27	9	16	12	39	4	6	2	0	6	1084
15:00	6	876	299	13	3	19	20	30	6	4	3	2	6	1287
16:00	18	892	194	16	8	34	20	30	2	1	6	0	8	1229
17:00	10	918	200	13	4	15	18	28	1	1	4	0	4	1216
18:00	5	837	226	6	3	23	29	24	2	5	3	2	3	1168
19:00	7	587	153	4	4	11	12	14	0	3	1	2	6	804
20:00	6	537	138	2	0	7	15	9	0	2	0	0	1	717
21:00	5	424	142	3	0	6	13	10	5	2	0	1	1	612
22:00	2	385	136	0	1	4	8	8	1	0	0	1	2	548
23:00	1	281	85	0	0	4	3	7	2	0	0	1	0	384
Day Total	126	11835	3946	253	98	370	311	388	62	64	57	19	102	17631
Percent	0.7%	67.1%	22.4%	1.4%	0.6%	2.1%	1.8%	2.2%	0.4%	0.4%	0.3%	0.1%	0.6%	
AM Peak	07:00	07:00	11:00	09:00	08:00	07:00	07:00	09:00	09:00	06:00	07:00	09:00	11:00	07:00
Vol.	17	756	274	24	10	48	37	25	6	7	14	4	11	1106
PM Peak	16:00	17:00	15:00	14:00	13:00	16:00	18:00	14:00	12:00	13:00	16:00	15:00	12:00	15:00
Vol.	18	918	299	27	9	34	29	39	8	6	6	2	13	1287
Grand Total	941	91446	29709	1558	708	2606	2254	3162	666	523	426	183	737	134919
Percent	0.7%	67.8%	22.0%	1.2%	0.5%	1.9%	1.7%	2.3%	0.5%	0.4%	0.3%	0.1%	0.5%	

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 Highbury Ave S between Thames River &
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 Date Start: 18-Jun-18
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NB, SB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/18/18	0	214	62	1	0	4	0	0	7	0	0	0	1	289
01:00	2	145	31	6	0	4	0	1	3	0	0	0	2	194
02:00	2	109	31	0	2	1	0	3	10	1	0	1	0	160
03:00	2	103	29	4	1	4	0	2	11	1	0	0	0	157
04:00	0	126	64	10	2	1	1	0	7	2	0	0	2	215
05:00	4	489	196	20	7	6	6	9	15	0	2	1	8	763
06:00	8	1051	412	32	2	33	19	47	15	11	5	0	5	1640
07:00	13	1535	398	30	11	65	65	62	15	10	12	3	21	2240
08:00	20	1500	384	38	17	78	44	56	8	10	22	3	24	2204
09:00	9	1120	435	35	22	42	22	53	15	12	10	2	13	1790
10:00	12	1019	426	33	10	42	23	63	24	11	5	2	17	1687
11:00	9	1129	456	34	19	37	27	35	28	15	4	1	16	1810
12 PM	12	1238	466	22	11	41	38	39	23	3	4	2	18	1917
13:00	17	1402	435	22	23	44	34	41	15	9	5	1	19	2067
14:00	17	1421	513	35	17	41	30	67	15	13	7	2	13	2191
15:00	22	1789	586	23	12	53	47	66	9	13	7	2	17	2646
16:00	20	1975	429	22	11	70	47	54	9	6	9	2	15	2669
17:00	15	1773	451	21	8	62	40	62	8	10	14	6	12	2482
18:00	13	1580	435	12	7	39	35	45	8	13	5	3	5	2200
19:00	16	1245	312	18	5	35	15	26	3	6	5	1	5	1692
20:00	14	1104	309	9	2	25	27	28	10	3	3	7	7	1548
21:00	9	960	238	8	3	20	16	22	4	3	2	2	1	1288
22:00	6	829	206	6	3	14	10	16	0	1	0	3	2	1096
23:00	5	604	155	7	0	14	6	19	5	2	0	2	6	825
Day Total	247	24460	7459	448	195	775	552	816	267	155	121	46	229	35770
Percent	0.7%	68.4%	20.9%	1.3%	0.5%	2.2%	1.5%	2.3%	0.7%	0.4%	0.3%	0.1%	0.6%	
AM Peak	08:00	07:00	11:00	08:00	09:00	08:00	07:00	10:00	11:00	11:00	08:00	07:00	08:00	07:00
Vol.	20	1535	456	38	22	78	65	63	28	15	22	3	24	2240
PM Peak	15:00	16:00	15:00	14:00	13:00	16:00	15:00	14:00	12:00	14:00	17:00	20:00	13:00	16:00
Vol.	22	1975	586	35	23	70	47	67	23	13	14	7	19	2669

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

Site Code: 1
 Station ID: M2/M3
 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB, SB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/19/18	1	183	49	2	0	2	0	1	1	0	1	0	1	241
01:00	0	152	33	3	0	2	0	1	2	0	0	1	1	195
02:00	1	107	24	0	3	1	0	3	2	0	0	0	0	141
03:00	1	110	38	5	0	0	0	2	4	1	0	1	0	162
04:00	1	113	50	7	3	0	1	1	4	1	0	1	2	184
05:00	1	441	217	14	7	10	7	9	10	1	2	1	8	728
06:00	6	1142	422	31	2	37	23	37	15	11	5	0	2	1733
07:00	17	1557	435	19	11	56	64	56	14	11	16	6	15	2277
08:00	15	1582	337	33	16	77	54	55	11	12	15	1	18	2226
09:00	11	1131	409	37	14	38	32	54	15	9	11	4	19	1784
10:00	12	991	400	32	16	43	29	41	18	9	4	0	17	1612
11:00	14	1082	479	26	13	31	26	45	15	20	4	2	13	1770
12 PM	17	1179	408	26	17	35	27	37	29	12	4	2	12	1805
13:00	12	1313	438	30	22	35	27	72	20	16	7	0	12	2004
14:00	12	1414	500	34	13	40	37	76	14	15	8	1	17	2181
15:00	13	1802	623	26	8	52	61	65	13	11	10	3	14	2701
16:00	20	1913	498	23	10	50	67	61	5	10	7	2	14	2680
17:00	21	1760	437	22	8	55	49	56	5	6	7	3	11	2440
18:00	21	1530	394	12	6	36	38	45	10	10	4	2	10	2118
19:00	17	1238	311	10	5	28	18	24	8	7	0	1	4	1671
20:00	11	1082	286	3	4	26	31	30	6	6	2	4	6	1497
21:00	6	895	247	4	0	17	15	26	3	0	1	2	3	1219
22:00	8	829	214	2	0	18	14	11	0	0	0	4	2	1102
23:00	8	639	144	6	2	11	1	9	0	1	0	1	3	825
Day Total	246	24185	7393	407	180	700	621	817	224	169	108	42	204	35296
Percent	0.7%	68.5%	20.9%	1.2%	0.5%	2.0%	1.8%	2.3%	0.6%	0.5%	0.3%	0.1%	0.6%	
AM Peak	07:00	08:00	11:00	09:00	08:00	08:00	07:00	07:00	10:00	11:00	07:00	07:00	09:00	07:00
Vol.	17	1582	479	37	16	77	64	56	18	20	16	6	19	2277
PM Peak	17:00	16:00	15:00	14:00	13:00	17:00	16:00	14:00	12:00	13:00	15:00	20:00	14:00	15:00
Vol.	21	1913	623	34	22	55	67	76	29	16	10	4	17	2701

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB, SB

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/20/18	2	186	56	2	0	0	0	1	2	0	0	0	1	250
01:00	1	131	29	5	0	4	0	1	1	1	0	0	0	173
02:00	1	123	25	2	1	3	0	0	5	0	0	0	0	160
03:00	2	109	29	5	0	1	0	1	3	2	0	1	0	153
04:00	1	124	54	8	5	1	3	2	5	1	0	0	1	205
05:00	2	471	199	17	8	14	4	7	3	3	0	1	4	733
06:00	11	1044	412	36	5	33	30	45	11	12	5	3	9	1656
07:00	19	1532	389	33	14	63	58	48	22	5	12	2	15	2212
08:00	14	1577	414	41	9	55	51	59	8	10	15	3	21	2277
09:00	15	1094	438	33	18	38	21	60	11	6	14	3	19	1770
10:00	10	1031	417	34	9	39	25	52	20	16	5	2	17	1677
11:00	13	1102	459	30	14	36	25	42	16	22	7	2	12	1780
12 PM	13	1192	485	30	15	40	35	48	25	8	6	1	11	1909
13:00	16	1386	436	35	20	37	23	70	15	20	10	5	10	2083
14:00	17	1414	526	41	19	33	31	88	13	16	9	2	9	2218
15:00	14	1712	601	31	9	43	47	64	11	12	9	3	14	2570
16:00	22	1880	506	28	10	48	56	50	10	11	9	6	17	2653
17:00	14	1825	467	22	9	44	49	54	5	11	13	4	10	2527
18:00	12	1694	448	14	6	37	32	51	7	5	7	1	10	2324
19:00	8	1188	298	16	3	35	36	30	2	10	5	2	13	1646
20:00	11	1037	285	11	4	33	23	30	5	6	2	3	9	1459
21:00	13	888	231	9	1	18	13	18	7	1	0	1	4	1204
22:00	9	838	199	4	1	20	13	15	3	1	0	1	0	1104
23:00	5	624	140	8	1	10	5	12	4	0	0	2	1	812
Day Total	245	24202	7543	495	181	685	580	848	214	179	128	48	207	35555
Percent	0.7%	68.1%	21.2%	1.4%	0.5%	1.9%	1.6%	2.4%	0.6%	0.5%	0.4%	0.1%	0.6%	
AM Peak	07:00	08:00	11:00	08:00	09:00	07:00	07:00	09:00	07:00	11:00	08:00	06:00	08:00	08:00
Vol.	19	1577	459	41	18	63	58	60	22	22	15	3	21	2277
PM Peak	16:00	16:00	15:00	14:00	13:00	16:00	16:00	14:00	12:00	13:00	17:00	16:00	16:00	16:00
Vol.	22	1880	601	41	20	48	56	88	25	20	13	6	17	2653

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB, SB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/21/18	0	194	56	3	0	6	0	0	1	6	0	0	0	266
01:00	0	133	30	1	0	3	0	0	1	0	0	0	1	169
02:00	1	106	31	1	1	1	0	2	2	1	0	1	0	147
03:00	1	118	21	3	1	3	0	1	3	1	0	0	0	152
04:00	2	130	54	10	2	1	0	1	5	1	0	0	2	208
05:00	5	501	184	32	9	6	8	13	15	1	4	1	5	784
06:00	12	1019	417	34	6	41	12	42	18	11	5	2	10	1629
07:00	18	1623	400	27	18	74	50	65	20	14	11	4	11	2335
08:00	20	1519	399	30	15	68	44	50	10	15	18	2	14	2204
09:00	10	1198	412	45	12	42	36	57	15	12	15	7	20	1881
10:00	14	1029	418	24	10	43	25	57	16	12	4	2	14	1668
11:00	10	1105	440	23	13	36	26	33	27	8	5	1	15	1742
12 PM	14	1234	446	29	19	35	33	46	22	10	8	4	10	1910
13:00	15	1354	455	23	19	40	30	56	21	11	4	1	15	2044
14:00	15	1405	469	33	19	38	30	91	11	14	11	4	15	2155
15:00	12	1756	582	24	11	54	44	63	14	10	10	2	25	2607
16:00	28	1889	474	24	12	52	64	50	7	6	7	1	10	2624
17:00	18	1850	438	21	6	50	50	58	5	4	13	2	8	2523
18:00	13	1538	422	17	4	48	33	46	8	4	4	3	6	2146
19:00	15	1217	290	8	6	30	17	26	3	12	2	1	6	1633
20:00	9	1039	284	9	5	23	26	25	7	4	3	2	4	1440
21:00	13	981	241	4	1	16	18	21	3	2	1	1	2	1304
22:00	8	854	211	2	1	17	15	17	1	0	1	1	5	1133
23:00	6	624	147	5	2	15	10	15	1	1	0	1	1	828
Day Total	259	24416	7321	432	192	742	571	835	236	160	126	43	199	35532
Percent	0.7%	68.7%	20.6%	1.2%	0.5%	2.1%	1.6%	2.3%	0.7%	0.5%	0.4%	0.1%	0.6%	
AM Peak	08:00	07:00	11:00	09:00	07:00	07:00	07:00	07:00	11:00	08:00	08:00	09:00	09:00	07:00
Vol.	20	1623	440	45	18	74	50	65	27	15	18	7	20	2335
PM Peak	16:00	16:00	15:00	14:00	12:00	15:00	16:00	14:00	12:00	14:00	17:00	12:00	15:00	16:00
Vol.	28	1889	582	33	19	54	64	91	22	14	13	4	25	2624

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
 Date Start: 18-Jun-18

NB, SB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/22/18	1	178	56	1	0	4	0	0	3	0	0	0	3	246
01:00	1	136	33	3	0	1	0	1	1	0	0	0	0	176
02:00	0	126	31	0	2	2	0	2	3	0	0	0	0	166
03:00	1	112	28	1	0	2	1	2	2	0	0	0	0	149
04:00	0	128	63	2	4	1	2	0	3	0	0	0	1	204
05:00	8	442	213	19	7	12	7	7	10	3	1	0	2	731
06:00	13	1040	411	34	5	35	28	49	13	4	8	3	10	1653
07:00	16	1544	384	33	9	76	58	58	14	12	17	2	20	2243
08:00	18	1511	426	38	19	70	45	53	11	9	20	5	24	2249
09:00	12	1179	429	45	15	42	35	53	10	10	14	8	21	1873
10:00	12	998	439	31	19	42	29	49	23	8	6	0	21	1677
11:00	8	1098	407	27	17	34	24	49	19	13	11	3	14	1724
12 PM	11	1309	505	30	13	50	41	53	18	19	4	2	23	2078
13:00	11	1242	431	31	13	40	28	63	21	12	7	0	15	1914
14:00	15	1460	482	30	14	43	35	59	13	12	7	2	15	2187
15:00	26	1763	516	29	14	63	57	78	9	10	6	0	12	2583
16:00	32	1988	435	21	11	72	57	49	8	6	9	1	21	2710
17:00	10	1756	455	22	8	51	52	61	5	10	11	2	9	2452
18:00	12	1555	418	13	6	38	32	52	10	7	3	1	7	2154
19:00	13	1274	295	10	3	33	26	28	3	7	4	2	11	1709
20:00	12	1083	317	5	7	22	26	29	7	6	1	6	9	1530
21:00	8	945	235	7	0	20	14	21	5	0	2	4	3	1264
22:00	7	874	209	3	2	19	13	19	2	1	0	2	2	1153
23:00	9	645	162	10	0	14	6	14	3	2	0	1	4	870
Day Total	256	24386	7380	445	188	786	616	849	216	151	131	44	247	35695
Percent	0.7%	68.3%	20.7%	1.2%	0.5%	2.2%	1.7%	2.4%	0.6%	0.4%	0.4%	0.1%	0.7%	
AM Peak	08:00	07:00	10:00	09:00	08:00	07:00	07:00	07:00	10:00	11:00	08:00	09:00	08:00	08:00
Vol.	18	1544	439	45	19	76	58	58	23	13	20	8	24	2249
PM Peak	16:00	16:00	15:00	13:00	14:00	16:00	15:00	15:00	13:00	12:00	17:00	20:00	12:00	16:00
Vol.	32	1988	516	31	14	72	57	78	21	19	11	6	23	2710

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 Highbury Ave S between Thames River &
 Bradley Ave
 Date Start: 18-Jun-18
 Date End: 25-Jun-18
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Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/23/18	3	357	69	13	1	5	2	8	6	1	0	4	1	470
01:00	4	209	63	6	1	0	1	2	4	0	0	3	0	293
02:00	1	210	46	4	1	1	0	0	3	0	0	3	2	271
03:00	1	147	26	3	0	1	0	1	5	1	0	1	0	186
04:00	0	97	33	3	1	0	0	1	4	0	0	2	1	142
05:00	1	270	75	8	1	6	1	2	4	0	0	4	3	375
06:00	3	423	132	9	5	6	6	11	7	3	0	3	4	612
07:00	5	697	220	11	0	16	8	12	9	1	3	0	4	986
08:00	4	899	287	14	5	19	15	23	6	6	2	0	2	1282
09:00	4	1038	334	13	7	24	25	32	8	0	4	2	7	1498
10:00	6	1309	417	10	6	37	36	57	3	2	2	0	7	1892
11:00	7	1437	425	10	7	39	44	45	3	5	1	1	2	2026
12 PM	8	1571	392	11	4	40	41	52	4	6	5	3	6	2143
13:00	10	1630	419	4	6	41	49	52	7	8	6	0	5	2237
14:00	12	1474	435	7	3	32	53	59	3	4	4	3	2	2091
15:00	11	1503	378	6	5	41	48	58	5	1	5	2	6	2069
16:00	6	1532	378	4	4	36	32	33	4	4	1	1	7	2042
17:00	11	1314	367	7	4	34	39	34	0	8	2	0	4	1824
18:00	5	1252	342	7	4	29	23	20	1	2	4	0	1	1690
19:00	7	1088	289	8	1	13	20	26	1	4	0	0	1	1458
20:00	5	963	247	6	1	14	21	15	4	3	2	0	1	1282
21:00	9	984	230	11	1	17	19	25	0	2	1	1	0	1300
22:00	6	757	176	4	1	8	11	6	3	0	1	0	2	975
23:00	8	574	125	7	0	8	5	7	2	0	0	0	1	737
Day Total	137	21735	5905	186	69	467	499	581	96	61	43	33	69	29881
Percent	0.5%	72.7%	19.8%	0.6%	0.2%	1.6%	1.7%	1.9%	0.3%	0.2%	0.1%	0.1%	0.2%	
AM Peak	11:00	11:00	11:00	08:00	09:00	11:00	11:00	10:00	07:00	08:00	09:00	00:00	09:00	11:00
Vol.	7	1437	425	14	7	39	44	57	9	6	4	4	7	2026
PM Peak	14:00	13:00	14:00	12:00	13:00	13:00	14:00	14:00	13:00	13:00	13:00	12:00	16:00	13:00
Vol.	12	1630	435	11	6	41	53	59	7	8	6	3	7	2237

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Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/24/18	3	452	79	13	1	3	2	4	1	0	0	0	0	558
01:00	0	303	71	1	0	6	2	4	0	0	0	0	0	387
02:00	0	201	40	2	0	3	0	1	0	0	0	0	1	248
03:00	1	116	19	2	0	0	0	1	0	0	0	0	0	139
04:00	1	84	22	1	1	0	0	0	0	0	0	2	2	113
05:00	0	152	29	1	0	6	1	2	2	0	0	0	0	193
06:00	0	287	61	0	0	0	0	4	5	1	0	0	1	359
07:00	4	384	136	2	1	8	7	6	1	0	1	0	0	550
08:00	5	586	165	15	2	10	3	8	0	2	1	0	4	801
09:00	4	860	262	3	1	14	23	25	6	2	2	0	5	1207
10:00	11	1210	318	10	2	26	35	36	1	0	3	1	4	1657
11:00	7	1328	405	5	3	30	40	33	4	4	0	0	3	1862
12 PM	21	1450	385	5	1	21	39	53	1	5	3	0	0	1984
13:00	20	1416	401	3	3	34	44	47	0	4	5	1	2	1980
14:00	16	1432	357	3	2	41	41	44	1	7	3	1	3	1951
15:00	18	1374	368	4	2	26	31	42	2	1	6	0	3	1877
16:00	9	1240	327	5	2	27	33	33	1	5	3	0	3	1688
17:00	13	1348	321	3	2	26	30	38	5	6	1	1	1	1795
18:00	10	1212	310	4	2	31	32	32	5	5	2	1	5	1651
19:00	17	1117	297	4	0	24	29	25	2	3	5	1	2	1526
20:00	18	1098	260	4	2	28	24	28	1	2	1	0	4	1470
21:00	12	980	198	6	2	16	20	23	1	1	3	1	1	1264
22:00	8	805	189	5	0	6	10	13	3	1	2	0	1	1043
23:00	6	442	100	15	1	7	4	4	2	1	0	0	1	583
Day Total	204	19877	5120	116	30	393	450	506	44	50	41	9	46	26886
Percent	0.8%	73.9%	19.0%	0.4%	0.1%	1.5%	1.7%	1.9%	0.2%	0.2%	0.2%	0.0%	0.2%	
AM Peak	10:00	11:00	11:00	08:00	11:00	11:00	11:00	10:00	09:00	11:00	10:00	04:00	09:00	11:00
Vol.	11	1328	405	15	3	30	40	36	6	4	3	2	5	1862
PM Peak	12:00	12:00	13:00	23:00	13:00	14:00	13:00	12:00	17:00	14:00	15:00	13:00	18:00	12:00
Vol.	21	1450	401	15	3	41	44	53	5	7	6	1	5	1984

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 Date Start: 18-Jun-18

NB, SB														
Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
06/25/18	1	201	64	2	0	5	0	1	2	0	0	0	0	276
01:00	3	135	37	3	0	2	0	1	2	0	0	0	0	183
02:00	1	112	25	2	4	1	0	3	0	1	0	0	0	149
03:00	2	92	35	6	1	0	0	1	2	0	0	0	0	139
04:00	0	126	59	8	3	1	2	1	4	0	0	0	1	205
05:00	3	498	213	22	7	19	4	13	6	2	1	0	1	789
06:00	3	1103	387	28	4	41	28	37	11	10	5	1	6	1664
07:00	21	1591	376	26	15	76	65	51	13	8	26	2	17	2287
08:00	18	1465	463	35	26	66	31	55	13	9	17	2	15	2215
09:00	10	1226	449	40	19	38	28	53	17	8	6	4	13	1911
10:00	12	1043	433	31	12	37	23	33	21	9	4	2	11	1671
11:00	17	1063	465	33	14	48	33	28	12	10	2	1	14	1740
12 PM	9	1227	445	20	10	34	41	40	16	3	2	1	23	1871
13:00	18	1338	472	30	19	38	32	62	13	13	4	0	13	2052
14:00	11	1436	492	35	13	32	32	72	6	8	6	0	11	2154
15:00	16	1836	530	25	6	47	46	56	11	9	4	2	16	2604
16:00	25	1889	449	28	10	63	52	69	6	9	8	2	14	2624
17:00	13	1845	448	23	7	46	39	64	9	4	9	1	12	2520
18:00	11	1622	408	13	5	43	39	44	4	8	3	3	10	2213
19:00	15	1191	297	10	5	40	24	26	5	7	6	2	9	1637
20:00	13	1132	259	5	0	20	21	16	1	2	2	1	1	1473
21:00	6	945	237	4	0	19	19	14	5	2	0	2	1	1254
22:00	9	838	215	4	1	13	15	12	1	0	0	2	2	1112
23:00	2	664	145	3	0	6	3	10	3	0	0	1	0	837
Day Total	239	24618	7403	436	181	735	577	762	183	122	105	29	190	35580
Percent	0.7%	69.2%	20.8%	1.2%	0.5%	2.1%	1.6%	2.1%	0.5%	0.3%	0.3%	0.1%	0.5%	
AM Peak	07:00	07:00	11:00	09:00	08:00	07:00	07:00	08:00	10:00	06:00	07:00	09:00	07:00	07:00
Vol.	21	1591	465	40	26	76	65	55	21	10	26	4	17	2287
PM Peak	16:00	16:00	15:00	14:00	13:00	16:00	16:00	14:00	12:00	13:00	17:00	18:00	12:00	16:00
Vol.	25	1889	530	35	19	63	52	72	16	13	9	3	23	2624
Grand Total	1833	187879	55524	2965	1216	5283	4466	6014	1480	1047	803	294	1391	270195
Percent	0.7%	69.5%	20.5%	1.1%	0.5%	2.0%	1.7%	2.2%	0.5%	0.4%	0.3%	0.1%	0.5%	