

30 June 2016

HTC Project: 16339

Town of Portugal Cove-St. Philip's  
1119 Thorburn Road  
Portugal Cove-St. Philip's, A1M 1T6

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**ATTENTION:** GAIL TUCKER  
DIRECTOR OF PUBLIC WORKS

**RE:** PORTUGAL COVE-ST. PHILIP'S ROADWAY REVIEW – NEWBURY STREET - REVISED

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Ms. Tucker,

Further to your request on June 2, 2016, this is to advise that Harbourside Transportation Consultants (HTC) has completed a review of the following streets: Newbury Street, Taunton Street and Blagdon Hill, in response to the speeding and shortcutting concerns that were raised by residents in the Town of Portugal Cove-St. Philip's. As shown in Figure 1, this series of streets is perceived by motorists to be a shorter path when travelling from Portugal Cove Road to Indian Meal Line and vice versa.



Figure 1 - Study area

## Traffic Counts

Traffic counts data for this project was collected by Harbourside Transportation Consultants using three Miovision 'Scout' video traffic counters. Traffic count data for this project was recorded on Tuesday, June 7, 2016 at the following times and locations and are shown in Figure 1. The traffic count data can be found in Appendix A.

- Indian Meal Line & Portugal Cove Road
- Newbury Street & Portugal Cove Road
- Blagdon Hill & Indian Meal Line

HTC also conducted Average Daily Traffic (ADT) counts on Newbury Street using a 'BlackCat' Radar Recorder which produced an ADT and 85<sup>th</sup> percentile speed reports for the particular roadway. The ADT is the total volume of vehicular traffic over a 24 hour period. The 85<sup>th</sup> percentile speed is the speed value that 85 percent of the vehicles do not exceed. The radar recorder was mounted to two different utility poles along Newbury Street. The counts were collected from June 10<sup>th</sup> to June 12<sup>th</sup>, 2016 (Friday to Sunday) and June 14<sup>th</sup> to 16<sup>th</sup>, 2016 (Tuesday to Thursday). The results of the ADT and 85<sup>th</sup> percentile speed are listed in Table 1 below.

Table 1 - ADT and 85th percentile speed on Newbury Street

Date	ADT- 24 Hour	85th %ile
Friday, June 10, 2016	923	45 km/hr
Saturday, June 11, 2016	579	45 km/hr
Sunday, June 12, 2016	605	42 km/hr
Tuesday, June 14, 2016	962	39 km/hr
Wednesday, June 15, 2016	779	41 km/hr
Thursday, June 16, 2016	734	42 km/hr

The above table shows the ADT counts and the 85<sup>th</sup> percentile speed along Newbury Street. Due to Newbury Street being classified as a local residential road and a speed limit of 50 km/hr, as per the Town of Portugal Cove-St. Philip's Speed Zone Policy, there is not a speeding issue along Newbury Street.

There are approximately 50 homes located on Newbury Street, Taunton Street and Blagdon Hill, with construction of additional homes being completed this summer. The Institute of Transportation Engineers (ITE) Trip Generation Manual states that typical local residential households generate an average of 10 two-way trips per day. Therefore, approximately 500 average daily trips would be a typical volume for a street with 50 homes. As shown above, on the data collection days there is as many as an additional 462 vehicles on this roadway, almost twice the typical volume for a similar local road.

### Shortcutting on Newbury Street

HTC reviewed the video from the traffic count data to determine if there was a shortcutting problem on Newbury Street. The AM and PM peak hours were reviewed for both directions and a shortcutting vehicle was identified based on the time it took a vehicle to enter at one end of the study area and exit at the other end. A trip was considered a "shortcut" if the vehicle was found to exit the study area within a 50 to 90 second window of the time the vehicle entered the study area. HTC recorded the time it took to travel from the intersection of Portugal Cove Road/Newbury Street to Indian Meal Line/Blagdon Hill, approximately 70 seconds at a speed that was deemed reasonable for a local residential road.

Vehicles entering at Portugal Cove Road were recorded and it was noted if the same vehicle exited at Indian Meal Line, the same was done in the opposite direction. The total number of vehicle entering and exiting were also noted, to identify the number of resident trips in and out of the study area. Results from the analysis can be found in Table 2 below.

Table 2 - Shortcutting on Newbury Street

Portugal Cove Road to Indian Meal Line				
Time	Total Entering	Total Leaving	# Shortcuts	% Shortcutting
7:15 - 8:15 AM	18	13	12	92%
4:30 - 5:30 PM	87	65	62	95%
Indian Meal Line to Portugal Cove Road				
Time	Total Entering	Total Leaving	# Shortcuts	% Shortcutting
7:15 - 8:15 AM	57	87	55	63%
4:30 - 5:30 PM	19	26	16	62%

The results noted above indicate a significant shortcutting problem in the study area. Travelling from Portugal Cove Road to Indian Meal Line during the AM peak hour, 92% of trips were considered shortcutting. Shortcutting is also observed in the opposite direction, where 63% of vehicles used Newbury Street as a shortcut to travel from Indian Meal Line to Portugal Cove Road.

During the PM peak hour, 95% of vehicles used Newbury Street as a shortcut from Portugal Cove Road to Indian Meal Line and 62% of vehicles travelling from Indian Meal Line to Portugal Cove Road were shortcutting.

HTC reviewed the speed data recorded by the BlackCAT during both the AM and PM peak hours and observed vehicles exceeding the 50 km/hr and, in some cases, exceeding 60 km/hr. On Thursday, June 16<sup>th</sup>, 2016 (24 hour count), there were 3 vehicles that were recorded travelling at the speeds between 61-70 km/hr. One of the vehicles was during the AM peak hour and the other 2 vehicles were recorded during the PM peak hour. On Wednesday, June 16<sup>th</sup>, 2016 (24 hour count), there were 26 vehicles that were recorded travelling at the speeds between 51-60 km/hr. 5 of the vehicles were during the AM peak hour and the other 7 vehicles were recorded during the PM peak hour. Therefore, it can be reasonably assumed that the majority of vehicles exceeding the speed on the street are vehicles which are shortcutting through the study area.

### Indian Meal Line and Portugal Cove Road Intersection

HTC created a Synchro model of the Indian Meal Line/Portugal Cove Road intersection to identify delays and the queue lengths at the intersection. Synchro is a traffic software program used to analyze intersection traffic operations. HTC reviewed the delays at the intersection during both the AM and PM peak hours and both intersections perform with a delay of 15 seconds or better. Therefore, there are currently no operational problems at this intersection. Even though there are no issues with traffic delay, the intersection layout and current road surface conditions may impact driver usage of this area. This is outlined in more detail in the recommendations section of this report.

HTC completed a SimTraffic analysis of the intersection which showed that the queue lengths on Indian Meal Line are very short. The worst case is during the PM peak hour where the 95<sup>th</sup> percentile queue observed on the Indian Meal Line approach is 26m, which is approximately 4 vehicles. The results from the model can be found in Figure 2 and Figure 3 for the AM and PM peak hour models respectively.

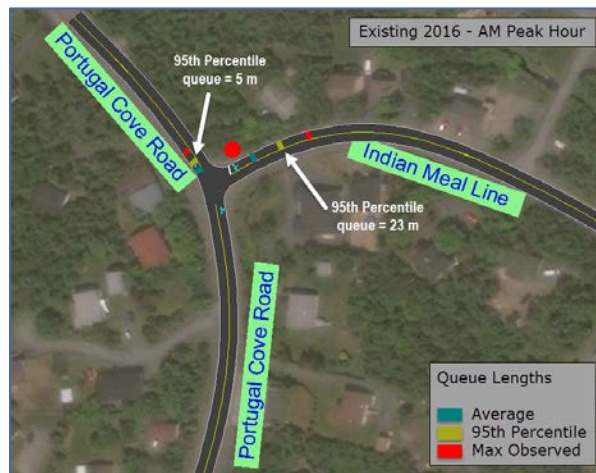


Figure 2 - Synchro 2016 AM peak hour queues



Figure 3 - Synchro 2016 PM peak hour queues

HTC reviewed the turning sight distance at the intersection of Indian Meal Line/Portugal Cove Road and the intersection meets the minimum sight distance requirements set out by the province of 125 m for a speed of 50 km/h.



### School Bus Stop

HTC reviewed the video at the intersection of Newbury Street/Portugal Cove Road and noticed that this location is a school bus stop. In the AM peak hour, vehicles are parked on the north side of Newbury Street waiting with their children to be picked up by the school bus. There are 5 to 6 vehicles parked on the side of the road which narrows the available asphalt width significantly, and the situation becomes hazardous as it is not intended to be a parking lane. Both parents and children stand outside for the school bus to arrive and, based on the video, the bus pick-up location at the stop sign on the street. Therefore, the parents and children are actually standing in the roadway to be picked up. This is a safety hazard, especially as the vehicles are parked too close to an intersection and the children and parents are standing in the roadway as shown in Figure 4 below.



Figure 4 – School Bus Pick-up

## Recommendations

Based on the results shown above, HTC can confirm that there is a shortcutting issue on Newbury Street, Taunton Street and Blagdon Hill. However, there is not a speeding issue, as the 85<sup>th</sup> percentile was 39-45 km/hr on the days that the speed data was recorded by HTC. Even though there is not a posted speed limit on Newbury Street, the Town of Portugal Cove-St. Philip's Speed Zone Policy recognizes this street as a local residential street and would have a posted speed limit of 50 km/hr.

### *Shortcutting Issue*

To address the shortcutting issue, HTC is recommending two different options to the Town of Portugal Cove-St. Philip's to resolve the shortcutting problem during the peak hours.

The first recommendation is to place turning restrictions on the following turning movements:

- No left-turns from Indian Meal Line onto Blagdon Hill between 7 AM and 9 AM
- No right-turns from Portugal Cove Road onto Newbury Street between 4 PM and 6 PM

These restrictions would be communicated by roadside signage. This restriction would also need to be communicated to the RNC, in order to gain their cooperation in the providing enforcement of these turning restrictions. This will increase the driving time for the residents living on Newbury Street, Taunton Street and Blagdon Hill during the peak hours, however will reduce the number of shortcutting vehicles during peak hours. Again, it is critical that there is some level of police enforcement during the noted peak hours.

For the recommendation provided above, support of the residents affected with the installation of the turning restrictions is an important step. Typically, a Traffic Calming Policy suggests achieving 60% or greater of residential support before proceeding with a traffic calming measure. It is important to note that the Town does not currently have a traffic calming policy in place to address issues such as this in a logical, consistent manner. In many of the policies recently adopted by municipalities in the region, this particular street would likely not qualify for traffic calming measures due to its low average daily traffic volumes (typically 900 vehicles per day) and the 85<sup>th</sup> percentile speed measurements being below 50km/hr.

### *Intersection Upgrades*

HTC reviewed the intersection of Portugal Cove Road/Indian Meal Line, with the initial thought that there may be a back-up of traffic with long delays and therefore causing motorists to choose an alternate route to bypass the intersection. However, based on the traffic volumes collected by HTC, there are minimal delays at the intersection which do not exceed 15 seconds during both the AM and PM peak hours. The existing intersection layout may make motorists uncomfortable driving due to the gradual horizontal curves on both the main and side streets. The road width seems narrow due to there being very little gravel shoulders on both sides of the road and also the residential garbage bins are very close to the roadway. The asphalt is not in good condition and may also prevent drivers from using the intersection to proceed along Indian Meal Line.

HTC recognizes that Indian Meal Line and Portugal Cove Road are under Provincial jurisdiction, but recommends repairing the potholes and repainting the pavement markings to designate the driving lanes. A design review of the intersection may improve the aesthetics of the intersection, however due to the property boundary constraints, may have little to no effect of the shortcutting along Newbury Street.



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### *Future extension of Newbury Street*

While reviewing the study area, it was recognized that they may be area cleared for Newbury Street to extend to the east and allow for more residential development. If the proposed layout of the extension of Newbury Street connects to Indian Meal Line at another location, the shortcutting issue may become greater along Newbury Street. Any future extensions or connections should be reviewed prior to construction to minimize this possibility.

### *School Bus Stop*

HTC also recommends relocating the school bus stop north along Portugal Cove Road to allow for both the children and the parents to stand off the roadway safely while waiting for the bus. HTC recommends prohibiting parking along Newbury Street within 10 meters of the stop sign. HTC recommends parents walk with their children to the bus stop to promote active lifestyle.

### *Traffic Calming Policy*

Finally, HTC recommends that the Town of Portugal Cove-St. Philp's develop a Traffic Calming Policy. The Traffic Calming Policy will provide guidance when dealing with future requests to investigate potential speeding and traffic issues in neighbourhoods throughout the Town.

Harbourside Transportation Consultants appreciates the opportunity to carry out this assignment for the Town. If there are any follow-up questions or comments, please feel free to contact us.

Yours truly,

Harbourside Transportation Consultants  
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Appendix A: Traffic Counts

Appendix B: BlackCat Radar Data Results



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# Appendix A

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## Traffic Counts





Harbourside Transportation Consultants  
 219 Waverley Road  
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 Dartmouth, Nova Scotia, Canada B2X 2C3  
 709.330.6462 fallaire@harboursideengineering.ca

Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 1

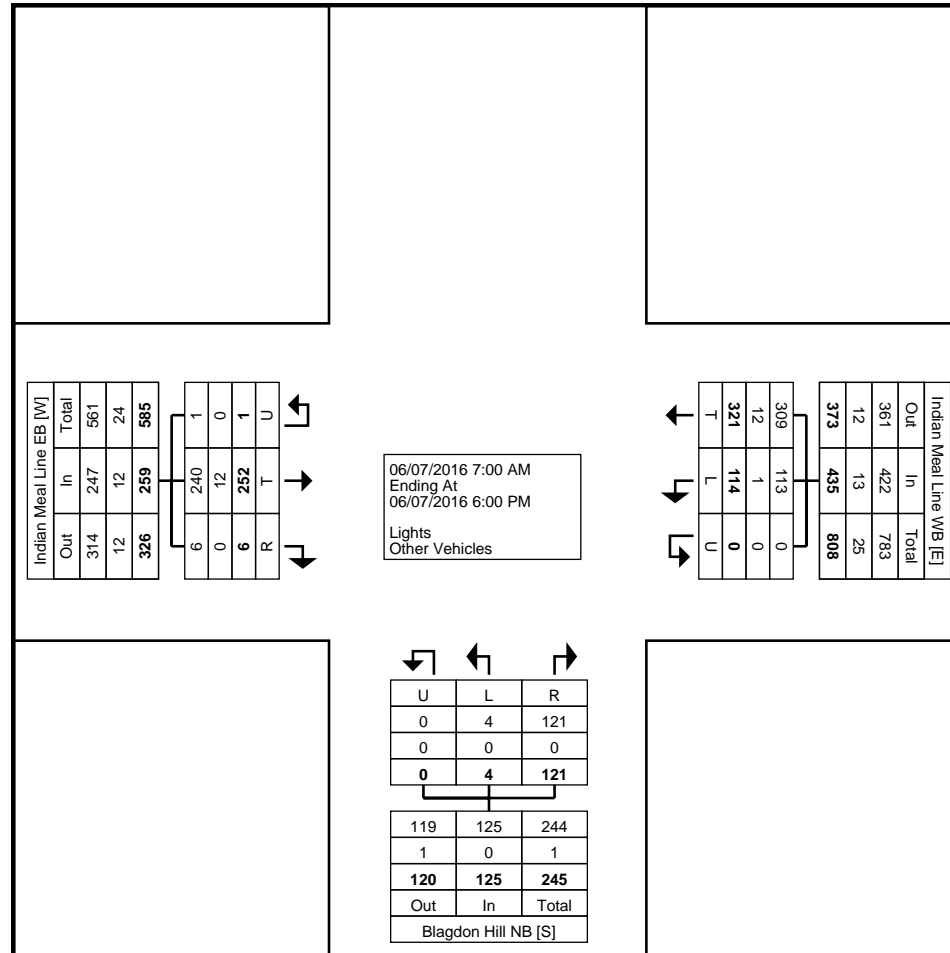
### Turning Movement Data

Start Time	Indian Meal Line WB Westbound				Blagdon Hill NB Northbound				Indian Meal Line EB Eastbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
7:00 AM	5	12	0	17	3	0	0	3	0	3	0	3	23
7:15 AM	15	11	0	26	3	0	0	3	0	16	0	16	45
7:30 AM	10	20	0	30	4	0	0	4	0	10	0	10	44
7:45 AM	22	12	0	34	3	0	0	3	2	9	0	11	48
Hourly Total	52	55	0	107	13	0	0	13	2	38	0	40	160
8:00 AM	26	11	0	37	3	0	0	3	1	9	0	10	50
8:15 AM	14	4	0	18	1	0	0	1	1	14	0	15	34
8:30 AM	9	4	0	13	1	0	0	1	0	11	0	11	25
8:45 AM	9	6	0	15	1	0	0	1	0	5	0	5	21
Hourly Total	58	25	0	83	6	0	0	6	2	39	0	41	130
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	27	3	0	30	5	0	0	5	0	27	0	27	62
4:15 PM	26	1	0	27	11	0	0	11	1	19	0	20	58
4:30 PM	29	3	0	32	9	1	0	10	1	28	0	29	71
4:45 PM	25	3	0	28	22	1	0	23	0	22	0	22	73
Hourly Total	107	10	0	117	47	2	0	49	2	96	0	98	264
5:00 PM	32	6	0	38	13	0	0	13	0	19	0	19	70
5:15 PM	21	6	0	27	19	0	0	19	0	22	0	22	68
5:30 PM	26	4	0	30	17	2	0	19	0	19	1	20	69
5:45 PM	25	8	0	33	6	0	0	6	0	19	0	19	58
Hourly Total	104	24	0	128	55	2	0	57	0	79	1	80	265
Grand Total	321	114	0	435	121	4	0	125	6	252	1	259	819
Approach %	73.8	26.2	0.0	-	96.8	3.2	0.0	-	2.3	97.3	0.4	-	-
Total %	39.2	13.9	0.0	53.1	14.8	0.5	0.0	15.3	0.7	30.8	0.1	31.6	-
Lights	309	113	0	422	121	4	0	125	6	240	1	247	794
% Lights	96.3	99.1	-	97.0	100.0	100.0	-	100.0	100.0	95.2	100.0	95.4	96.9
Other Vehicles	12	1	0	13	0	0	0	0	0	12	0	12	25
% Other Vehicles	3.7	0.9	-	3.0	0.0	0.0	-	0.0	0.0	4.8	0.0	4.6	3.1



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Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 2



Turning Movement Data Plot



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Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 3

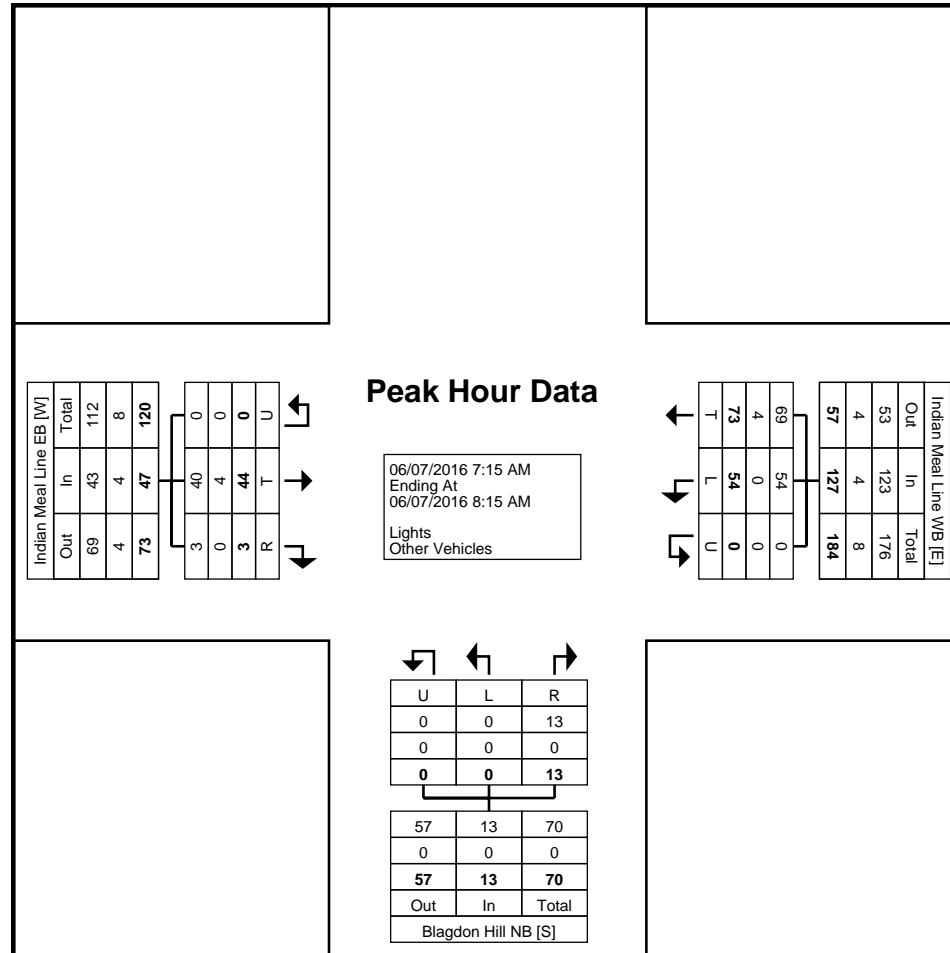
### Turning Movement Peak Hour Data (7:15 AM)

Start Time	Indian Meal Line WB Westbound				Blagdon Hill NB Northbound				Indian Meal Line EB Eastbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
7:15 AM	15	11	0	26	3	0	0	3	0	16	0	16	45
7:30 AM	10	20	0	30	4	0	0	4	0	10	0	10	44
7:45 AM	22	12	0	34	3	0	0	3	2	9	0	11	48
8:00 AM	26	11	0	37	3	0	0	3	1	9	0	10	50
Total	73	54	0	127	13	0	0	13	3	44	0	47	187
Approach %	57.5	42.5	0.0	-	100.0	0.0	0.0	-	6.4	93.6	0.0	-	-
Total %	39.0	28.9	0.0	67.9	7.0	0.0	0.0	7.0	1.6	23.5	0.0	25.1	-
PHF	0.702	0.675	0.000	0.858	0.813	0.000	0.000	0.813	0.375	0.688	0.000	0.734	0.935
Lights	69	54	0	123	13	0	0	13	3	40	0	43	179
% Lights	94.5	100.0	-	96.9	100.0	-	-	100.0	100.0	90.9	-	91.5	95.7
Other Vehicles	4	0	0	4	0	0	0	0	0	4	0	4	8
% Other Vehicles	5.5	0.0	-	3.1	0.0	-	-	0.0	0.0	9.1	-	8.5	4.3



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Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 4



Turning Movement Peak Hour Data Plot (7:15 AM)



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Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 5

### Turning Movement Peak Hour Data (4:30 PM)

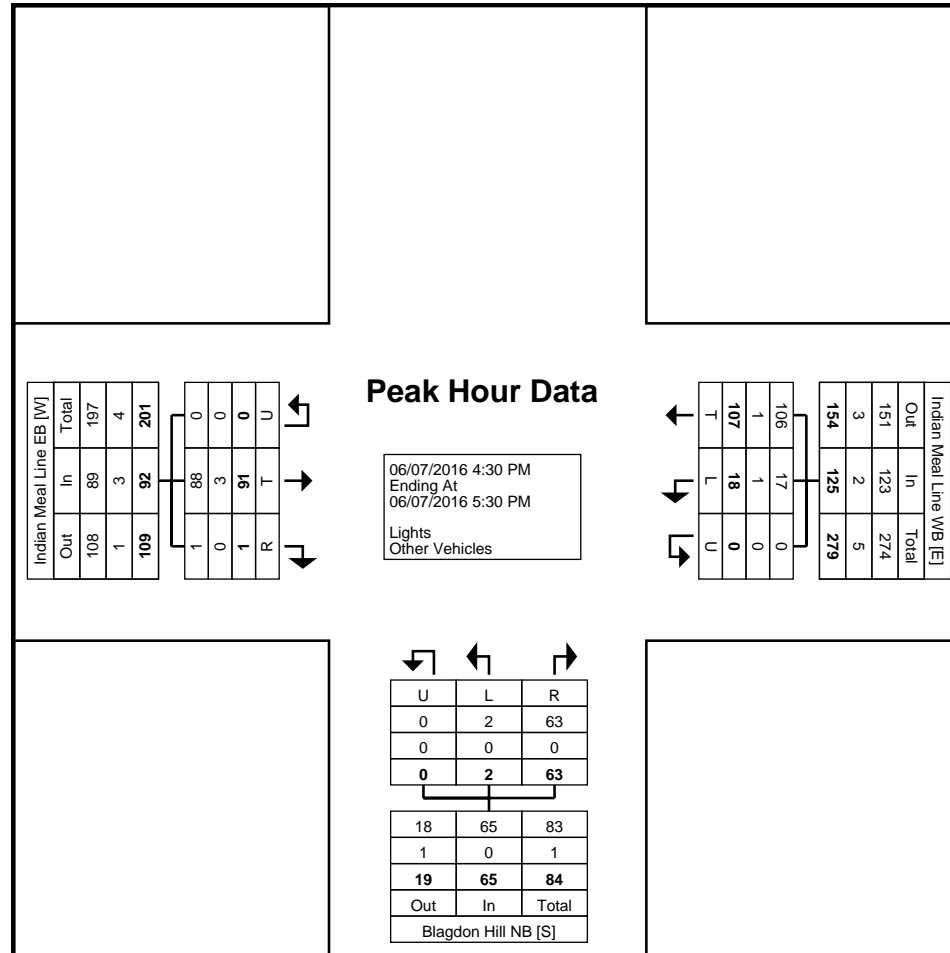
Start Time	Indian Meal Line WB Westbound				Blagdon Hill NB Northbound				Indian Meal Line EB Eastbound			Int. Total	
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn		App. Total
4:30 PM	29	3	0	32	9	1	0	10	1	28	0	29	71
4:45 PM	25	3	0	28	22	1	0	23	0	22	0	22	73
5:00 PM	32	6	0	38	13	0	0	13	0	19	0	19	70
5:15 PM	21	6	0	27	19	0	0	19	0	22	0	22	68
Total	107	18	0	125	63	2	0	65	1	91	0	92	282
Approach %	85.6	14.4	0.0	-	96.9	3.1	0.0	-	1.1	98.9	0.0	-	-
Total %	37.9	6.4	0.0	44.3	22.3	0.7	0.0	23.0	0.4	32.3	0.0	32.6	-
PHF	0.836	0.750	0.000	0.822	0.716	0.500	0.000	0.707	0.250	0.813	0.000	0.793	0.966
Lights	106	17	0	123	63	2	0	65	1	88	0	89	277
% Lights	99.1	94.4	-	98.4	100.0	100.0	-	100.0	100.0	96.7	-	96.7	98.2
Other Vehicles	1	1	0	2	0	0	0	0	0	3	0	3	5
% Other Vehicles	0.9	5.6	-	1.6	0.0	0.0	-	0.0	0.0	3.3	-	3.3	1.8





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Count Name: Indian Meal Line & Blagdon Hill  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)



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Count Name: Portugal Cove Road & Indian Meal Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 1

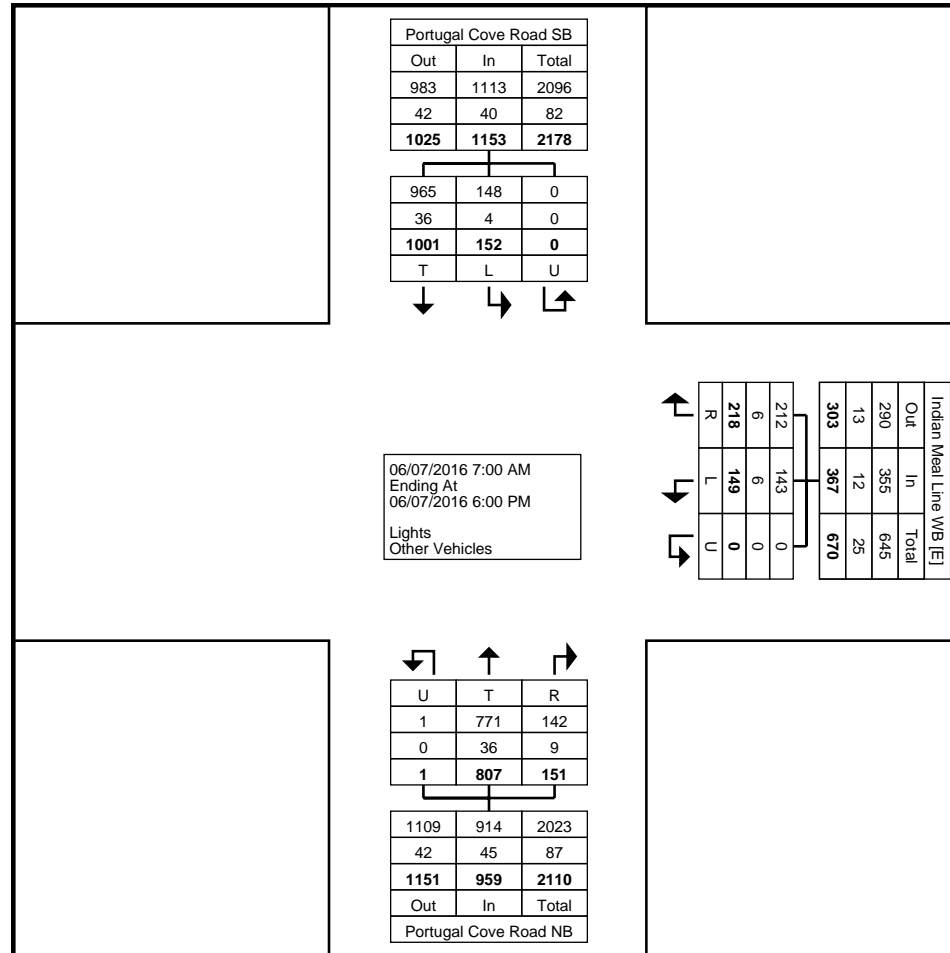
### Turning Movement Data

Start Time	Portugal Cove Road SB Southbound				Indian Meal Line WB Westbound				Portugal Cove Road NB Northbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
7:00 AM	45	4	0	49	4	7	0	11	2	16	0	18	78
7:15 AM	65	8	0	73	3	10	0	13	10	19	0	29	115
7:30 AM	146	7	0	153	6	11	0	17	3	20	0	23	193
7:45 AM	99	7	0	106	12	11	0	23	4	30	0	34	163
Hourly Total	355	26	0	381	25	39	0	64	19	85	0	104	549
8:00 AM	78	6	0	84	23	14	0	37	4	28	0	32	153
8:15 AM	76	9	0	85	6	10	0	16	6	28	0	34	135
8:30 AM	69	10	0	79	4	9	0	13	2	25	0	27	119
8:45 AM	54	4	0	58	6	3	0	9	2	35	0	37	104
Hourly Total	277	29	0	306	39	36	0	75	14	116	0	130	511
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	42	13	0	55	15	14	0	29	16	62	1	79	163
4:15 PM	35	8	0	43	21	9	0	30	19	77	0	96	169
4:30 PM	52	17	0	69	16	8	0	24	14	86	0	100	193
4:45 PM	60	13	0	73	21	11	0	32	15	100	0	115	220
Hourly Total	189	51	0	240	73	42	0	115	64	325	1	390	745
5:00 PM	46	11	0	57	22	9	0	31	15	70	0	85	173
5:15 PM	43	15	0	58	19	6	0	25	14	85	0	99	182
5:30 PM	40	9	0	49	17	12	0	29	15	71	0	86	164
5:45 PM	51	11	0	62	23	5	0	28	10	55	0	65	155
Hourly Total	180	46	0	226	81	32	0	113	54	281	0	335	674
Grand Total	1001	152	0	1153	218	149	0	367	151	807	1	959	2479
Approach %	86.8	13.2	0.0	-	59.4	40.6	0.0	-	15.7	84.2	0.1	-	-
Total %	40.4	6.1	0.0	46.5	8.8	6.0	0.0	14.8	6.1	32.6	0.0	38.7	-
Lights	965	148	0	1113	212	143	0	355	142	771	1	914	2382
% Lights	96.4	97.4	-	96.5	97.2	96.0	-	96.7	94.0	95.5	100.0	95.3	96.1
Other Vehicles	36	4	0	40	6	6	0	12	9	36	0	45	97
% Other Vehicles	3.6	2.6	-	3.5	2.8	4.0	-	3.3	6.0	4.5	0.0	4.7	3.9



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Count Name: Portugal Cove Road & Indian Meal  
 Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 2



Turning Movement Data Plot



Harbourside Transportation Consultants  
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Count Name: Portugal Cove Road & Indian Meal  
 Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 3

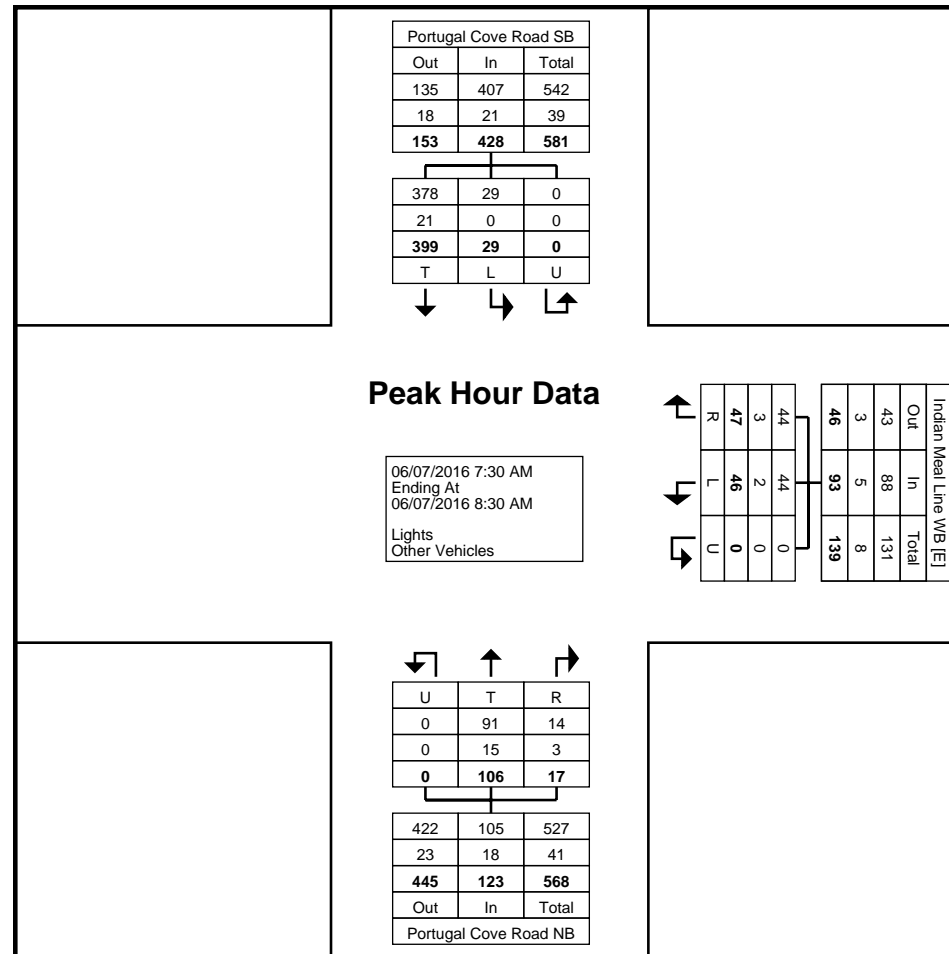
### Turning Movement Peak Hour Data (7:30 AM)

Start Time	Portugal Cove Road SB Southbound				Indian Meal Line WB Westbound				Portugal Cove Road NB Northbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
7:30 AM	146	7	0	153	6	11	0	17	3	20	0	23	193
7:45 AM	99	7	0	106	12	11	0	23	4	30	0	34	163
8:00 AM	78	6	0	84	23	14	0	37	4	28	0	32	153
8:15 AM	76	9	0	85	6	10	0	16	6	28	0	34	135
Total	399	29	0	428	47	46	0	93	17	106	0	123	644
Approach %	93.2	6.8	0.0	-	50.5	49.5	0.0	-	13.8	86.2	0.0	-	-
Total %	62.0	4.5	0.0	66.5	7.3	7.1	0.0	14.4	2.6	16.5	0.0	19.1	-
PHF	0.683	0.806	0.000	0.699	0.511	0.821	0.000	0.628	0.708	0.883	0.000	0.904	0.834
Lights	378	29	0	407	44	44	0	88	14	91	0	105	600
% Lights	94.7	100.0	-	95.1	93.6	95.7	-	94.6	82.4	85.8	-	85.4	93.2
Other Vehicles	21	0	0	21	3	2	0	5	3	15	0	18	44
% Other Vehicles	5.3	0.0	-	4.9	6.4	4.3	-	5.4	17.6	14.2	-	14.6	6.8



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Count Name: Portugal Cove Road & Indian Meal Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 4



Turning Movement Peak Hour Data Plot (7:30 AM)





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Count Name: Portugal Cove Road & Indian Meal  
 Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 5

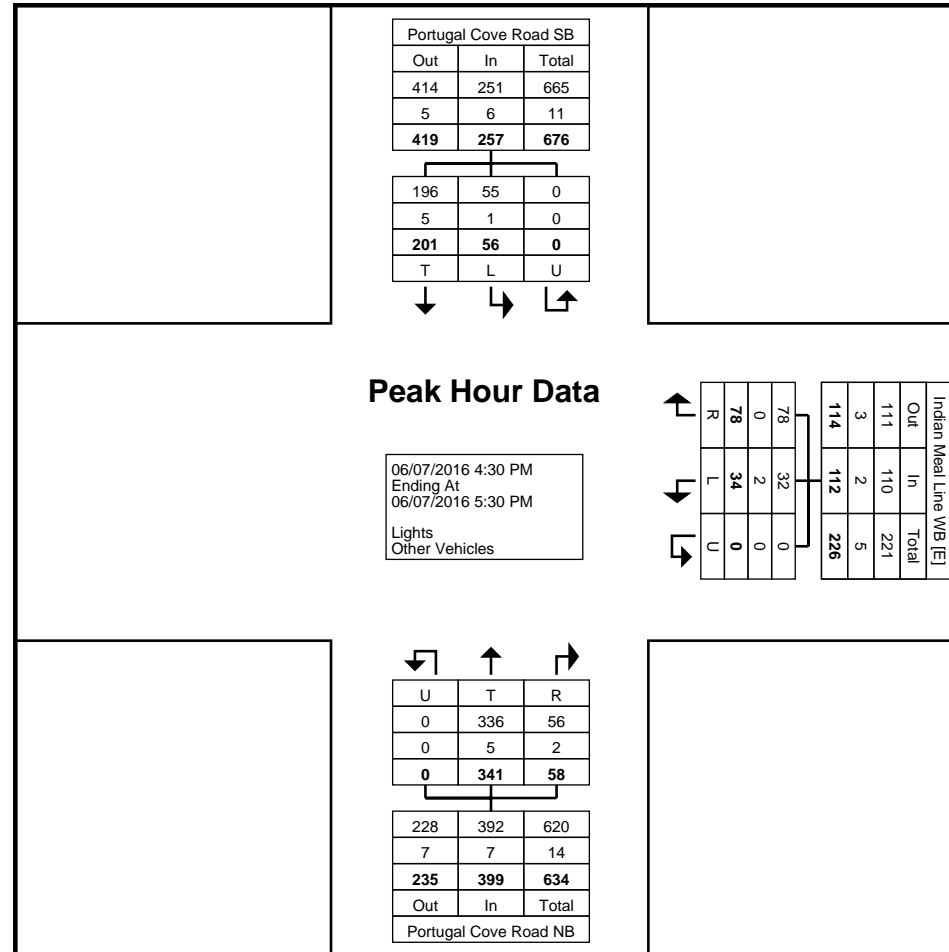
### Turning Movement Peak Hour Data (4:30 PM)

Start Time	Portugal Cove Road SB Southbound				Indian Meal Line WB Westbound				Portugal Cove Road NB Northbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
4:30 PM	52	17	0	69	16	8	0	24	14	86	0	100	193
4:45 PM	60	13	0	73	21	11	0	32	15	100	0	115	220
5:00 PM	46	11	0	57	22	9	0	31	15	70	0	85	173
5:15 PM	43	15	0	58	19	6	0	25	14	85	0	99	182
Total	201	56	0	257	78	34	0	112	58	341	0	399	768
Approach %	78.2	21.8	0.0	-	69.6	30.4	0.0	-	14.5	85.5	0.0	-	-
Total %	26.2	7.3	0.0	33.5	10.2	4.4	0.0	14.6	7.6	44.4	0.0	52.0	-
PHF	0.838	0.824	0.000	0.880	0.886	0.773	0.000	0.875	0.967	0.853	0.000	0.867	0.873
Lights	196	55	0	251	78	32	0	110	56	336	0	392	753
% Lights	97.5	98.2	-	97.7	100.0	94.1	-	98.2	96.6	98.5	-	98.2	98.0
Other Vehicles	5	1	0	6	0	2	0	2	2	5	0	7	15
% Other Vehicles	2.5	1.8	-	2.3	0.0	5.9	-	1.8	3.4	1.5	-	1.8	2.0



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 Line  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)



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Count Name: Portugal Cove Road & Newbury Street  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 1

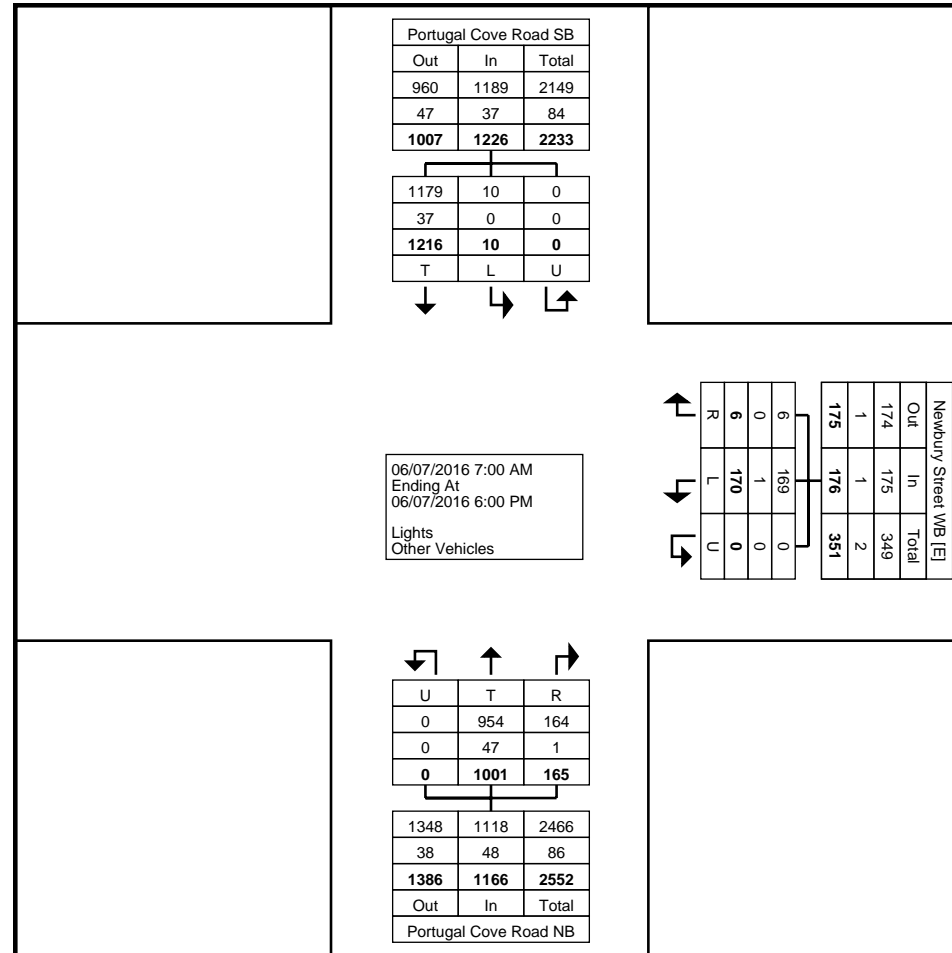
### Turning Movement Data

Start Time	Portugal Cove Road SB Southbound				Newbury Street WB Westbound				Portugal Cove Road NB Northbound				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
7:00 AM	61	0	0	61	0	11	0	11	3	18	0	21	93
7:15 AM	96	0	0	96	1	15	0	16	5	30	0	35	147
7:30 AM	173	1	0	174	0	26	0	26	3	24	0	27	227
7:45 AM	125	0	0	125	1	29	0	30	4	29	0	33	188
Hourly Total	455	1	0	456	2	81	0	83	15	101	0	116	655
8:00 AM	115	0	0	115	0	15	0	15	5	30	0	35	165
8:15 AM	92	1	0	93	0	13	0	13	4	34	0	38	144
8:30 AM	87	0	0	87	0	5	0	5	3	29	0	32	124
8:45 AM	65	0	0	65	2	11	0	13	1	30	0	31	109
Hourly Total	359	1	0	360	2	44	0	46	13	123	0	136	542
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-
4:00 PM	53	1	0	54	0	4	0	4	12	90	0	102	160
4:15 PM	39	0	0	39	1	2	0	3	13	101	0	114	156
4:30 PM	58	0	0	58	0	3	0	3	14	99	0	113	174
4:45 PM	59	1	0	60	1	5	0	6	27	121	0	148	214
Hourly Total	209	2	0	211	2	14	0	16	66	411	0	477	704
5:00 PM	57	1	0	58	0	8	0	8	17	93	0	110	176
5:15 PM	37	3	0	40	0	9	0	9	24	100	0	124	173
5:30 PM	49	0	0	49	0	3	0	3	18	93	0	111	163
5:45 PM	50	2	0	52	0	11	0	11	12	80	0	92	155
Hourly Total	193	6	0	199	0	31	0	31	71	366	0	437	667
Grand Total	1216	10	0	1226	6	170	0	176	165	1001	0	1166	2568
Approach %	99.2	0.8	0.0	-	3.4	96.6	0.0	-	14.2	85.8	0.0	-	-
Total %	47.4	0.4	0.0	47.7	0.2	6.6	0.0	6.9	6.4	39.0	0.0	45.4	-
Lights	1179	10	0	1189	6	169	0	175	164	954	0	1118	2482
% Lights	97.0	100.0	-	97.0	100.0	99.4	-	99.4	99.4	95.3	-	95.9	96.7
Other Vehicles	37	0	0	37	0	1	0	1	1	47	0	48	86
% Other Vehicles	3.0	0.0	-	3.0	0.0	0.6	-	0.6	0.6	4.7	-	4.1	3.3



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 Site Code:  
 Start Date: 06/07/2016  
 Page No: 2



Turning Movement Data Plot



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Count Name: Portugal Cove Road & Newbury Street  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 3

### Turning Movement Peak Hour Data (7:15 AM)

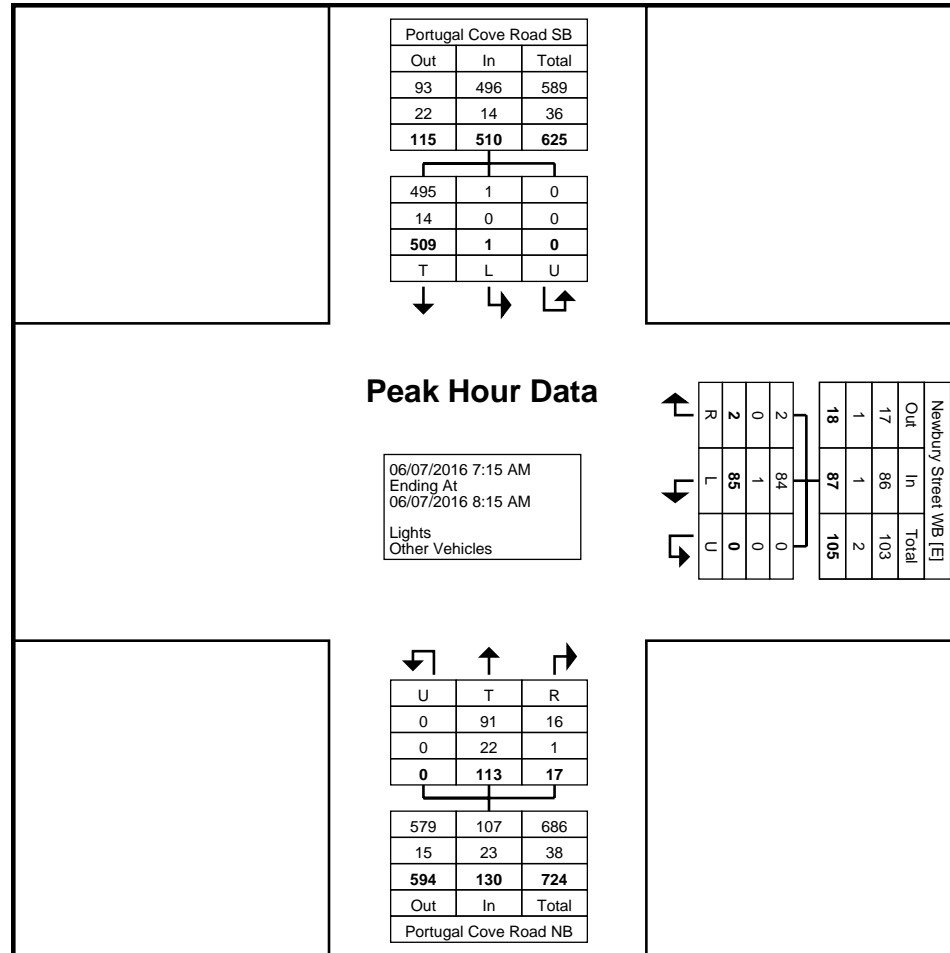
Start Time	Portugal Cove Road SB Southbound				Newbury Street WB Westbound				Portugal Cove Road NB Northbound			Int. Total	
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn		App. Total
7:15 AM	96	0	0	96	1	15	0	16	5	30	0	35	147
7:30 AM	173	1	0	174	0	26	0	26	3	24	0	27	227
7:45 AM	125	0	0	125	1	29	0	30	4	29	0	33	188
8:00 AM	115	0	0	115	0	15	0	15	5	30	0	35	165
Total	509	1	0	510	2	85	0	87	17	113	0	130	727
Approach %	99.8	0.2	0.0	-	2.3	97.7	0.0	-	13.1	86.9	0.0	-	-
Total %	70.0	0.1	0.0	70.2	0.3	11.7	0.0	12.0	2.3	15.5	0.0	17.9	-
PHF	0.736	0.250	0.000	0.733	0.500	0.733	0.000	0.725	0.850	0.942	0.000	0.929	0.801
Lights	495	1	0	496	2	84	0	86	16	91	0	107	689
% Lights	97.2	100.0	-	97.3	100.0	98.8	-	98.9	94.1	80.5	-	82.3	94.8
Other Vehicles	14	0	0	14	0	1	0	1	1	22	0	23	38
% Other Vehicles	2.8	0.0	-	2.7	0.0	1.2	-	1.1	5.9	19.5	-	17.7	5.2





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 Site Code:  
 Start Date: 06/07/2016  
 Page No: 4



Turning Movement Peak Hour Data Plot (7:15 AM)



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Count Name: Portugal Cove Road & Newbury Street  
 Site Code:  
 Start Date: 06/07/2016  
 Page No: 5

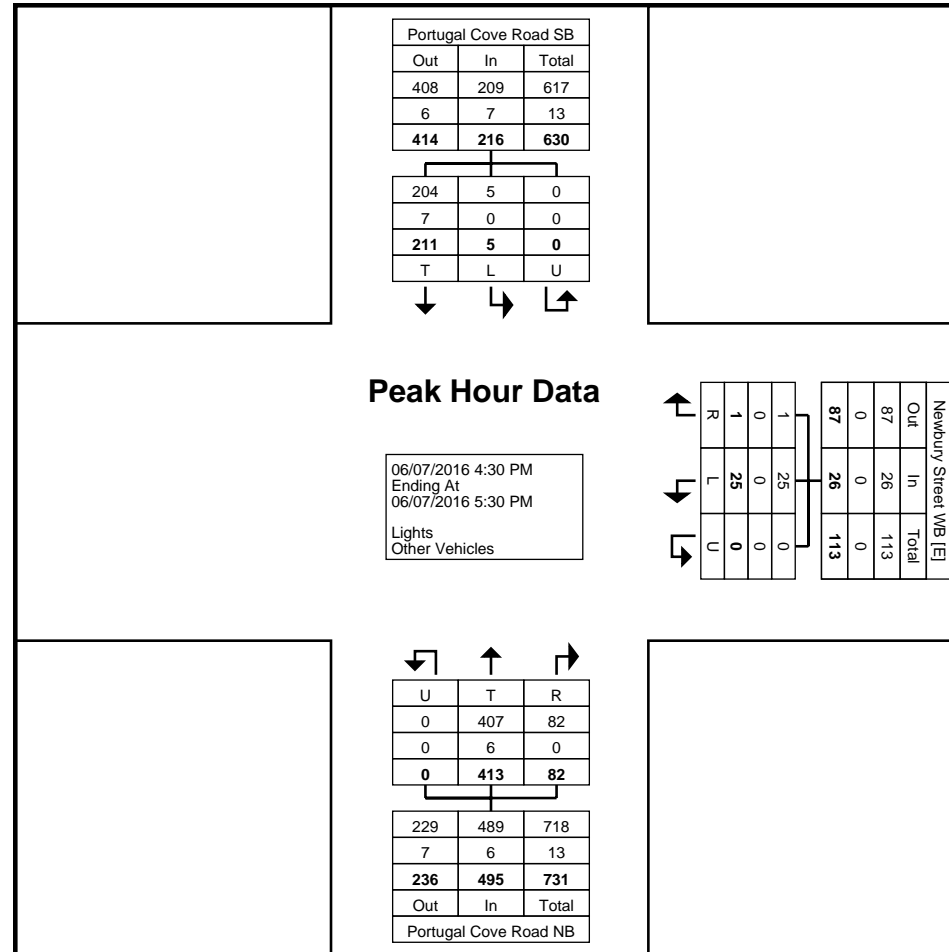
### Turning Movement Peak Hour Data (4:30 PM)

Start Time	Portugal Cove Road SB Southbound				Newbury Street WB Westbound				Portugal Cove Road NB Northbound			Int. Total	
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn		App. Total
4:30 PM	58	0	0	58	0	3	0	3	14	99	0	113	174
4:45 PM	59	1	0	60	1	5	0	6	27	121	0	148	214
5:00 PM	57	1	0	58	0	8	0	8	17	93	0	110	176
5:15 PM	37	3	0	40	0	9	0	9	24	100	0	124	173
Total	211	5	0	216	1	25	0	26	82	413	0	495	737
Approach %	97.7	2.3	0.0	-	3.8	96.2	0.0	-	16.6	83.4	0.0	-	-
Total %	28.6	0.7	0.0	29.3	0.1	3.4	0.0	3.5	11.1	56.0	0.0	67.2	-
PHF	0.894	0.417	0.000	0.900	0.250	0.694	0.000	0.722	0.759	0.853	0.000	0.836	0.861
Lights	204	5	0	209	1	25	0	26	82	407	0	489	724
% Lights	96.7	100.0	-	96.8	100.0	100.0	-	100.0	100.0	98.5	-	98.8	98.2
Other Vehicles	7	0	0	7	0	0	0	0	0	6	0	6	13
% Other Vehicles	3.3	0.0	-	3.2	0.0	0.0	-	0.0	0.0	1.5	-	1.2	1.8



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Site Code:  
Start Date: 06/07/2016  
Page No: 6



Turning Movement Peak Hour Data Plot (4:30 PM)



Suite 306 - Terrace on the Square  
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Tel: (709) 579.6435 ♦ [www.harboursideengineering.ca](http://www.harboursideengineering.ca)

# Appendix B

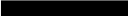










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## BlackCat Radar Data Results

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
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 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #15  
 Date Start: June-14-16  
 Date End: June-17-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

Start Time	June-14-16 Tue	WB	EB	Combined Total	
12:00 AM		*	*	*	
01:00		*	*	*	
02:00		*	*	*	
03:00		*	*	*	
04:00		*	*	*	
05:00		*	*	*	
06:00		*	*	*	
07:00		*	*	*	
08:00		*	*	*	
09:00		*	*	*	
10:00		*	*	*	
11:00		*	*	*	
12:00 PM		*	*	*	
01:00		20	4	24	
02:00		24	10	34	
03:00		34	6	40	
04:00		65	15	80	
05:00		63	21	84	
06:00		41	9	50	
07:00		37	6	43	
08:00		27	10	37	
09:00		15	8	23	
10:00		14	3	17	
11:00		11	3	14	
Total		351	95		
Percent		78.7%	21.3%		

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #15  
 Date Start: June-14-16  
 Date End: June-17-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

Start Time	June-15-16 Wed	WB	EB	Combined Total	
12:00 AM		3	2	5	■
01:00		2	1	3	■
02:00		1	0	1	■
03:00		1	0	1	■
04:00		1	0	1	■
05:00		3	0	3	■
06:00		17	0	17	■
07:00		71	5	76	■
08:00		43	9	52	■
09:00		26	8	34	■
10:00		22	14	36	■
11:00		23	16	39	■
12:00 PM		16	21	37	■
01:00		10	20	30	■
02:00		16	20	36	■
03:00		15	30	45	■
04:00		34	47	81	■
05:00		41	48	89	■
06:00		37	17	54	■
07:00		32	7	39	■
08:00		37	1	38	■
09:00		31	1	32	■
10:00		18	1	19	■
11:00		8	3	11	■
Total		508	271		
Percent		65.2%	34.8%		

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Newbury Street  
 Near Civic Address #15  
 Date Start: June-14-16  
 Date End: June-17-16  
 Latitude: 47° 37.1096 North  
 Longitude: 52° 49.7455 West

Start Time	June-16-16 Thu	WB	EB	Combined Total	
12:00 AM		3	1	4	█
01:00		2	3	5	██
02:00		3	0	3	█
03:00		0	0	0	
04:00		3	0	3	█
05:00		2	0	2	█
06:00		19	2	21	███
07:00		64	16	80	████████████████████
08:00		39	4	43	████████████████
09:00		29	11	40	████████████████
10:00		20	3	23	██████████
11:00		22	5	27	██████████
12:00 PM		35	12	47	██████████
01:00		17	7	24	██████████
02:00		16	17	33	██████████
03:00		27	23	50	██████████
04:00		37	34	71	██████████
05:00		62	17	79	██████████
06:00		40	6	46	██████████
07:00		39	10	49	██████████
08:00		22	20	42	██████████
09:00		11	7	18	██████
10:00		14	3	17	██████
11:00		6	1	7	██
<b>Total</b>		<b>532</b>	<b>202</b>		
<b>Percent</b>		<b>72.5%</b>	<b>27.5%</b>		

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Newbury Street  
 Near Civic Address #15  
 Date Start: June-14-16  
 Date End: June-17-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

Start Time	June-17-16 Fri	WB	EB	Combined Total	
12:00 AM		2	1	3	■
01:00		2	0	2	■
02:00		1	0	1	■
03:00		0	0	0	
04:00		1	0	1	■
05:00		5	0	5	■
06:00		17	1	18	■
07:00		53	2	55	■
08:00		*	*	*	
09:00		*	*	*	
10:00		*	*	*	
11:00		*	*	*	
12:00 PM		*	*	*	
01:00		*	*	*	
02:00		*	*	*	
03:00		*	*	*	
04:00		*	*	*	
05:00		*	*	*	
06:00		*	*	*	
07:00		*	*	*	
08:00		*	*	*	
09:00		*	*	*	
10:00		*	*	*	
11:00		*	*	*	
Total		81	4		
Percent		95.3%	4.7%		
Grand Total		1472	572		
Percentage		72.0%	28.0%		
ADT		ADT 742		AADT 742	



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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/14/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	19	1	0	0	0	0	0	0	0	0	0	0	0	20
14:00	24	0	0	0	0	0	0	0	0	0	0	0	0	24
15:00	29	4	1	0	0	0	0	0	0	0	0	0	0	34
16:00	54	8	3	0	0	0	0	0	0	0	0	0	0	65
17:00	52	8	3	0	0	0	0	0	0	0	0	0	0	63
18:00	36	4	1	0	0	0	0	0	0	0	0	0	0	41
19:00	36	1	0	0	0	0	0	0	0	0	0	0	0	37
20:00	23	4	0	0	0	0	0	0	0	0	0	0	0	27
21:00	10	2	2	1	0	0	0	0	0	0	0	0	0	15
22:00	13	1	0	0	0	0	0	0	0	0	0	0	0	14
23:00	7	4	0	0	0	0	0	0	0	0	0	0	0	11
Total	303	37	10	1	0	0	0	0	0	0	0	0	0	351
Percent	86.3%	10.5%	2.8%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily

15th Percentile : 6 KPH  
 50th Percentile : 23 KPH  
 85th Percentile : 39 KPH  
 95th Percentile : 48 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 114  
 Percent in Pace : 32.5%  
 Number of Vehicles > 55 KPH : 6  
 Percent of Vehicles > 55 KPH : 1.7%

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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/15/16	3	0	0	0	0	0	0	0	0	0	0	0	0	3
01:00	1	0	1	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
06:00	16	0	1	0	0	0	0	0	0	0	0	0	0	17
07:00	62	5	4	0	0	0	0	0	0	0	0	0	0	71
08:00	40	2	1	0	0	0	0	0	0	0	0	0	0	43
09:00	25	1	0	0	0	0	0	0	0	0	0	0	0	26
10:00	16	6	0	0	0	0	0	0	0	0	0	0	0	22
11:00	20	3	0	0	0	0	0	0	0	0	0	0	0	23
12 PM	15	1	0	0	0	0	0	0	0	0	0	0	0	16
13:00	10	0	0	0	0	0	0	0	0	0	0	0	0	10
14:00	16	0	0	0	0	0	0	0	0	0	0	0	0	16
15:00	13	1	1	0	0	0	0	0	0	0	0	0	0	15
16:00	25	7	2	0	0	0	0	0	0	0	0	0	0	34
17:00	35	6	0	0	0	0	0	0	0	0	0	0	0	41
18:00	31	5	1	0	0	0	0	0	0	0	0	0	0	37
19:00	26	5	1	0	0	0	0	0	0	0	0	0	0	32
20:00	37	0	0	0	0	0	0	0	0	0	0	0	0	37
21:00	30	1	0	0	0	0	0	0	0	0	0	0	0	31
22:00	17	1	0	0	0	0	0	0	0	0	0	0	0	18
23:00	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	451	45	12	0	0	0	0	0	0	0	0	0	0	508
Percent	88.8%	8.9%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 6 KPH  
 50th Percentile : 22 KPH  
 85th Percentile : 38 KPH  
 95th Percentile : 47 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 169  
 Percent in Pace : 33.3%  
 Number of Vehicles > 55 KPH : 6  
 Percent of Vehicles > 55 KPH : 1.2%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/16/16	2	1	0	0	0	0	0	0	0	0	0	0	0	3
01:00	1	0	1	0	0	0	0	0	0	0	0	0	0	2
02:00	1	1	1	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
05:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00	15	1	3	0	0	0	0	0	0	0	0	0	0	19
07:00	53	10	1	0	0	0	0	0	0	0	0	0	0	64
08:00	38	1	0	0	0	0	0	0	0	0	0	0	0	39
09:00	28	1	0	0	0	0	0	0	0	0	0	0	0	29
10:00	15	5	0	0	0	0	0	0	0	0	0	0	0	20
11:00	20	2	0	0	0	0	0	0	0	0	0	0	0	22
12 PM	32	2	1	0	0	0	0	0	0	0	0	0	0	35
13:00	16	1	0	0	0	0	0	0	0	0	0	0	0	17
14:00	15	1	0	0	0	0	0	0	0	0	0	0	0	16
15:00	22	2	3	0	0	0	0	0	0	0	0	0	0	27
16:00	22	11	4	0	0	0	0	0	0	0	0	0	0	37
17:00	51	10	1	0	0	0	0	0	0	0	0	0	0	62
18:00	35	5	0	0	0	0	0	0	0	0	0	0	0	40
19:00	34	4	1	0	0	0	0	0	0	0	0	0	0	39
20:00	13	5	4	0	0	0	0	0	0	0	0	0	0	22
21:00	10	1	0	0	0	0	0	0	0	0	0	0	0	11
22:00	12	1	1	0	0	0	0	0	0	0	0	0	0	14
23:00	3	2	1	0	0	0	0	0	0	0	0	0	0	6
Total	442	68	22	0	0	0	0	0	0	0	0	0	0	532
Percent	83.1%	12.8%	4.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 41 KPH  
 95th Percentile : 49 KPH  
  
 Mean Speed(Average) : 25 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 166  
 Percent in Pace : 31.2%  
 Number of Vehicles > 55 KPH : 11  
 Percent of Vehicles > 55 KPH : 2.1%

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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47° 37.1096 North  
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WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/17/16	1	0	1	0	0	0	0	0	0	0	0	0	0	2
01:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	5	0	0	0	0	0	0	0	0	0	0	0	0	5
06:00	15	1	1	0	0	0	0	0	0	0	0	0	0	17
07:00	47	6	0	0	0	0	0	0	0	0	0	0	0	53
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	72	7	2	0	0	0	0	0	0	0	0	0	0	81
Percent	88.9%	8.6%	2.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 6 KPH  
 50th Percentile : 22 KPH  
 85th Percentile : 38 KPH  
 95th Percentile : 47 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 27  
 Percent in Pace : 33.3%  
 Number of Vehicles > 55 KPH : 1  
 Percent of Vehicles > 55 KPH : 1.2%

Grand Total	1268	157	46	1	0	0	0	0	0	0	0	0	0	1472
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Overall

15th Percentile : 6 KPH  
 50th Percentile : 23 KPH  
 85th Percentile : 39 KPH  
 95th Percentile : 48 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 476  
 Percent in Pace : 32.3%  
 Number of Vehicles > 55 KPH : 24  
 Percent of Vehicles > 55 KPH : 1.6%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/14/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	4	0	0	0	0	0	0	0	0	0	0	0	0	4
14:00	10	0	0	0	0	0	0	0	0	0	0	0	0	10
15:00	6	0	0	0	0	0	0	0	0	0	0	0	0	6
16:00	12	2	1	0	0	0	0	0	0	0	0	0	0	15
17:00	17	3	1	0	0	0	0	0	0	0	0	0	0	21
18:00	8	1	0	0	0	0	0	0	0	0	0	0	0	9
19:00	6	0	0	0	0	0	0	0	0	0	0	0	0	6
20:00	9	1	0	0	0	0	0	0	0	0	0	0	0	10
21:00	7	1	0	0	0	0	0	0	0	0	0	0	0	8
22:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
23:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	84	9	2	0	0	0	0	0	0	0	0	0	0	95
Percent	88.4%	9.5%	2.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily

15th Percentile : 6 KPH  
 50th Percentile : 22 KPH  
 85th Percentile : 38 KPH  
 95th Percentile : 46 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 32  
 Percent in Pace : 33.7%  
 Number of Vehicles > 55 KPH : 1  
 Percent of Vehicles > 55 KPH : 1.1%

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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/15/16	2	0	0	0	0	0	0	0	0	0	0	0	0	2
01:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00	3	1	1	0	0	0	0	0	0	0	0	0	0	5
08:00	7	2	0	0	0	0	0	0	0	0	0	0	0	9
09:00	6	2	0	0	0	0	0	0	0	0	0	0	0	8
10:00	10	3	1	0	0	0	0	0	0	0	0	0	0	14
11:00	14	2	0	0	0	0	0	0	0	0	0	0	0	16
12 PM	16	4	1	0	0	0	0	0	0	0	0	0	0	21
13:00	16	3	1	0	0	0	0	0	0	0	0	0	0	20
14:00	17	1	2	0	0	0	0	0	0	0	0	0	0	20
15:00	22	6	2	0	0	0	0	0	0	0	0	0	0	30
16:00	29	12	5	1	0	0	0	0	0	0	0	0	0	47
17:00	36	12	0	0	0	0	0	0	0	0	0	0	0	48
18:00	13	4	0	0	0	0	0	0	0	0	0	0	0	17
19:00	4	3	0	0	0	0	0	0	0	0	0	0	0	7
20:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
21:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
22:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00	2	0	1	0	0	0	0	0	0	0	0	0	0	3
Total	201	55	14	1	0	0	0	0	0	0	0	0	0	271
Percent	74.2%	20.3%	5.2%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 8 KPH  
 50th Percentile : 26 KPH  
 85th Percentile : 45 KPH  
 95th Percentile : 51 KPH

Mean Speed(Average) : 28 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 80  
 Percent in Pace : 29.5%  
 Number of Vehicles > 55 KPH : 8  
 Percent of Vehicles > 55 KPH : 3.0%

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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
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 Latitude: 47' 37.1096 North  
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EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/16/16	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:00	13	2	0	1	0	0	0	0	0	0	0	0	0	16
08:00	4	0	0	0	0	0	0	0	0	0	0	0	0	4
09:00	10	1	0	0	0	0	0	0	0	0	0	0	0	11
10:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
11:00	2	3	0	0	0	0	0	0	0	0	0	0	0	5
12 PM	8	2	2	0	0	0	0	0	0	0	0	0	0	12
13:00	6	0	1	0	0	0	0	0	0	0	0	0	0	7
14:00	14	2	1	0	0	0	0	0	0	0	0	0	0	17
15:00	18	3	2	0	0	0	0	0	0	0	0	0	0	23
16:00	19	10	3	2	0	0	0	0	0	0	0	0	0	34
17:00	13	4	0	0	0	0	0	0	0	0	0	0	0	17
18:00	6	0	0	0	0	0	0	0	0	0	0	0	0	6
19:00	9	1	0	0	0	0	0	0	0	0	0	0	0	10
20:00	17	2	1	0	0	0	0	0	0	0	0	0	0	20
21:00	7	0	0	0	0	0	0	0	0	0	0	0	0	7
22:00	2	0	1	0	0	0	0	0	0	0	0	0	0	3
23:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	157	31	11	3	0	0	0	0	0	0	0	0	0	202
Percent	77.7%	15.3%	5.4%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 25 KPH  
 85th Percentile : 44 KPH  
 95th Percentile : 53 KPH

Mean Speed(Average) : 27 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 59  
 Percent in Pace : 29.2%  
 Number of Vehicles > 55 KPH : 8  
 Percent of Vehicles > 55 KPH : 4.2%

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Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
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EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/17/16	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
07:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Percent	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 6 KPH  
 50th Percentile : 20 KPH  
 85th Percentile : 34 KPH  
 95th Percentile : 37 KPH

Mean Speed(Average) : 20 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 2  
 Percent in Pace : 50.0%  
 Number of Vehicles > 55 KPH : 0  
 Percent of Vehicles > 55 KPH : 0.0%

Grand Total	446	95	27	4	0	0	0	0	0	0	0	0	0	572
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Overall

15th Percentile : 7 KPH  
 50th Percentile : 25 KPH  
 85th Percentile : 44 KPH  
 95th Percentile : 50 KPH

Mean Speed(Average) : 27 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 167  
 Percent in Pace : 29.2%  
 Number of Vehicles > 55 KPH : 17  
 Percent of Vehicles > 55 KPH : 3.1%



# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

**WB, EB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/14/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	23	1	0	0	0	0	0	0	0	0	0	0	0	24
14:00	34	0	0	0	0	0	0	0	0	0	0	0	0	34
15:00	35	4	1	0	0	0	0	0	0	0	0	0	0	40
16:00	66	10	4	0	0	0	0	0	0	0	0	0	0	80
17:00	69	11	4	0	0	0	0	0	0	0	0	0	0	84
18:00	44	5	1	0	0	0	0	0	0	0	0	0	0	50
19:00	42	1	0	0	0	0	0	0	0	0	0	0	0	43
20:00	32	5	0	0	0	0	0	0	0	0	0	0	0	37
21:00	17	3	2	1	0	0	0	0	0	0	0	0	0	23
22:00	15	2	0	0	0	0	0	0	0	0	0	0	0	17
23:00	10	4	0	0	0	0	0	0	0	0	0	0	0	14
Total	387	46	12	1	0	0	0	0	0	0	0	0	0	446
Percent	86.8%	10.3%	2.7%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily

15th Percentile : 6 KPH  
 50th Percentile : 23 KPH  
 85th Percentile : 39 KPH  
 95th Percentile : 47 KPH

Mean Speed(Average) : 24 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 145  
 Percent in Pace : 32.5%  
 Number of Vehicles > 55 KPH : 7  
 Percent of Vehicles > 55 KPH : 1.6%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

**WB, EB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/15/16	5	0	0	0	0	0	0	0	0	0	0	0	0	5
01:00	2	0	1	0	0	0	0	0	0	0	0	0	0	3
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
05:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
06:00	16	0	1	0	0	0	0	0	0	0	0	0	0	17
07:00	65	6	5	0	0	0	0	0	0	0	0	0	0	76
08:00	47	4	1	0	0	0	0	0	0	0	0	0	0	52
09:00	31	3	0	0	0	0	0	0	0	0	0	0	0	34
10:00	26	9	1	0	0	0	0	0	0	0	0	0	0	36
11:00	34	5	0	0	0	0	0	0	0	0	0	0	0	39
12 PM	31	5	1	0	0	0	0	0	0	0	0	0	0	37
13:00	26	3	1	0	0	0	0	0	0	0	0	0	0	30
14:00	33	1	2	0	0	0	0	0	0	0	0	0	0	36
15:00	35	7	3	0	0	0	0	0	0	0	0	0	0	45
16:00	54	19	7	1	0	0	0	0	0	0	0	0	0	81
17:00	71	18	0	0	0	0	0	0	0	0	0	0	0	89
18:00	44	9	1	0	0	0	0	0	0	0	0	0	0	54
19:00	30	8	1	0	0	0	0	0	0	0	0	0	0	39
20:00	38	0	0	0	0	0	0	0	0	0	0	0	0	38
21:00	31	1	0	0	0	0	0	0	0	0	0	0	0	32
22:00	18	1	0	0	0	0	0	0	0	0	0	0	0	19
23:00	10	0	1	0	0	0	0	0	0	0	0	0	0	11
Total	652	100	26	1	0	0	0	0	0	0	0	0	0	779
Percent	83.7%	12.8%	3.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 23 KPH  
 85th Percentile : 41 KPH  
 95th Percentile : 48 KPH  
  
 Mean Speed(Average) : 25 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 245  
 Percent in Pace : 31.5%  
 Number of Vehicles > 55 KPH : 14  
 Percent of Vehicles > 55 KPH : 1.8%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

**WB, EB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/16/16	3	1	0	0	0	0	0	0	0	0	0	0	0	4
01:00	3	1	1	0	0	0	0	0	0	0	0	0	0	5
02:00	1	1	1	0	0	0	0	0	0	0	0	0	0	3
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
05:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
06:00	17	1	3	0	0	0	0	0	0	0	0	0	0	21
07:00	66	12	1	1	0	0	0	0	0	0	0	0	0	80
08:00	42	1	0	0	0	0	0	0	0	0	0	0	0	43
09:00	38	2	0	0	0	0	0	0	0	0	0	0	0	40
10:00	18	5	0	0	0	0	0	0	0	0	0	0	0	23
11:00	22	5	0	0	0	0	0	0	0	0	0	0	0	27
12 PM	40	4	3	0	0	0	0	0	0	0	0	0	0	47
13:00	22	1	1	0	0	0	0	0	0	0	0	0	0	24
14:00	29	3	1	0	0	0	0	0	0	0	0	0	0	33
15:00	40	5	5	0	0	0	0	0	0	0	0	0	0	50
16:00	41	21	7	2	0	0	0	0	0	0	0	0	0	71
17:00	64	14	1	0	0	0	0	0	0	0	0	0	0	79
18:00	41	5	0	0	0	0	0	0	0	0	0	0	0	46
19:00	43	5	1	0	0	0	0	0	0	0	0	0	0	49
20:00	30	7	5	0	0	0	0	0	0	0	0	0	0	42
21:00	17	1	0	0	0	0	0	0	0	0	0	0	0	18
22:00	14	1	2	0	0	0	0	0	0	0	0	0	0	17
23:00	4	2	1	0	0	0	0	0	0	0	0	0	0	7
Total	599	99	33	3	0	0	0	0	0	0	0	0	0	734
Percent	81.6%	13.5%	4.5%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 42 KPH  
 95th Percentile : 49 KPH  
  
 Mean Speed(Average) : 26 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 225  
 Percent in Pace : 30.7%  
 Number of Vehicles > 55 KPH : 20  
 Percent of Vehicles > 55 KPH : 2.7%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address # 15  
 Date Start: 14-Jun-16  
 Date End: 17-Jun-16  
 Latitude: 47' 37.1096 North  
 Longitude: 52' 49.7455 West

**WB, EB**

Start Time	1 40	41 50	51 60	61 70	71 80	81 90	91 100	101 110	111 120	121 130	131 140	141 150	151 999	Total
06/17/16	2	0	1	0	0	0	0	0	0	0	0	0	0	3
01:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00	5	0	0	0	0	0	0	0	0	0	0	0	0	5
06:00	16	1	1	0	0	0	0	0	0	0	0	0	0	18
07:00	49	6	0	0	0	0	0	0	0	0	0	0	0	55
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	76	7	2	0	0	0	0	0	0	0	0	0	0	85
Percent	89.4%	8.2%	2.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 6 KPH  
 50th Percentile : 22 KPH  
 85th Percentile : 38 KPH  
 95th Percentile : 46 KPH

Mean Speed(Average) : 23 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 29  
 Percent in Pace : 34.1%  
 Number of Vehicles > 55 KPH : 1  
 Percent of Vehicles > 55 KPH : 1.2%

Grand Total	1714	252	73	5	0	0	0	0	0	0	0	0	0	2044
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Overall

15th Percentile : 7 KPH  
 50th Percentile : 23 KPH  
 85th Percentile : 40 KPH  
 95th Percentile : 49 KPH

Mean Speed(Average) : 25 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 643  
 Percent in Pace : 31.5%  
 Number of Vehicles > 55 KPH : 42  
 Percent of Vehicles > 55 KPH : 2.0%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: June-10-16  
 Date End: June-13-16  
 Latitude: 47' 37.1184 North  
 Longitude: 52' 49.6913 West

Start Time	June-10-16 Fri	EB	WB	Combined Total	
12:00 AM		*	*	*	
01:00		*	*	*	
02:00		*	*	*	
03:00		*	*	*	
04:00		*	*	*	
05:00		*	*	*	
06:00		*	*	*	
07:00		*	*	*	
08:00		*	*	*	
09:00		10	11	21	██████████
10:00		11	9	20	██████████
11:00		13	11	24	██████████
12:00 PM		24	18	42	██████████████████
01:00		24	16	40	██████████████████
02:00		21	10	31	██████████████
03:00		38	11	49	██████████████████
04:00		69	9	78	██
05:00		66	19	85	██
06:00		26	16	42	██████████████████
07:00		23	18	41	██████████████████
08:00		33	6	39	██████████████████
09:00		26	1	27	██████████████
10:00		18	3	21	██████████
11:00		16	1	17	██████████
Total		418	159		
Percent		72.4%	27.6%		

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: June-10-16  
 Date End: June-13-16  
 Latitude: 47' 37.1184 North  
 Longitude: 52' 49.6913 West

Start Time	June-11-16 Sat	EB	WB	Combined Total	
12:00 AM		9	1	10	█
01:00		2	0	2	█
02:00		1	0	1	█
03:00		3	0	3	█
04:00		1	0	1	█
05:00		3	1	4	█
06:00		3	3	6	█
07:00		7	9	16	█
08:00		16	8	24	█
09:00		27	12	39	█
10:00		25	7	32	█
11:00		27	14	41	█
12:00 PM		25	13	38	█
01:00		24	14	38	█
02:00		33	9	42	█
03:00		31	9	40	█
04:00		33	12	45	█
05:00		24	23	47	█
06:00		16	10	26	█
07:00		17	13	30	█
08:00		28	9	37	█
09:00		22	4	26	█
10:00		11	4	15	█
11:00		14	2	16	█
Total		402	177		
Percent		69.4%	30.6%		

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: June-10-16  
 Date End: June-13-16  
 Latitude: 47' 37.1184 North  
 Longitude: 52' 49.6913 West

Start Time	June-12-16 Sun	EB	WB	Combined Total	
12:00 AM		5	2	7	█
01:00		5	3	8	█
02:00		3	1	4	█
03:00		9	0	9	█
04:00		3	0	3	█
05:00		1	0	1	█
06:00		7	2	9	█
07:00		5	1	6	█
08:00		14	5	19	█
09:00		15	9	24	█
10:00		13	8	21	█
11:00		19	15	34	█
12:00 PM		29	21	50	█
01:00		33	18	51	█
02:00		24	23	47	█
03:00		43	12	55	█
04:00		42	15	57	█
05:00		29	13	42	█
06:00		43	3	46	█
07:00		33	5	38	█
08:00		21	5	26	█
09:00		16	5	21	█
10:00		12	1	13	█
11:00		11	3	14	█
Total		435	170		
Percent		71.9%	28.1%		

# Harbourside Transportation Consultants

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 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: June-10-16  
 Date End: June-13-16  
 Latitude: 47' 37.1184 North  
 Longitude: 52' 49.6913 West

Start Time	June-13-16 Mon	EB	WB	Combined Total	
12:00 AM		1	0	1	█
01:00		4	0	4	█
02:00		0	0	0	
03:00		0	0	0	
04:00		0	0	0	
05:00		5	1	6	█
06:00		10	8	18	█
07:00		40	39	79	█
08:00		*	*	*	
09:00		*	*	*	
10:00		*	*	*	
11:00		*	*	*	
12:00 PM		*	*	*	
01:00		*	*	*	
02:00		*	*	*	
03:00		*	*	*	
04:00		*	*	*	
05:00		*	*	*	
06:00		*	*	*	
07:00		*	*	*	
08:00		*	*	*	
09:00		*	*	*	
10:00		*	*	*	
11:00		*	*	*	
Total		60	48		
Percent		55.6%	44.4%		
Grand Total		1315	554		
Percentage		70.4%	29.6%		
ADT		ADT 635		AADT 635	



# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47° 37.1163 North  
 Longitude: 52° 49.6904 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/10/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	7	3	0	0	0	0	0	0	0	0	0	0	0	10
10:00	8	2	1	0	0	0	0	0	0	0	0	0	0	11
11:00	11	2	0	0	0	0	0	0	0	0	0	0	0	13
12 PM	19	3	2	0	0	0	0	0	0	0	0	0	0	24
13:00	16	4	4	0	0	0	0	0	0	0	0	0	0	24
14:00	19	2	0	0	0	0	0	0	0	0	0	0	0	21
15:00	32	4	2	0	0	0	0	0	0	0	0	0	0	38
16:00	57	11	1	0	0	0	0	0	0	0	0	0	0	69
17:00	55	7	4	0	0	0	0	0	0	0	0	0	0	66
18:00	20	5	1	0	0	0	0	0	0	0	0	0	0	26
19:00	15	4	4	0	0	0	0	0	0	0	0	0	0	23
20:00	26	5	2	0	0	0	0	0	0	0	0	0	0	33
21:00	21	3	2	0	0	0	0	0	0	0	0	0	0	26
22:00	12	4	1	1	0	0	0	0	0	0	0	0	0	18
23:00	10	4	2	0	0	0	0	0	0	0	0	0	0	16
Total	328	63	26	1	0	0	0	0	0	0	0	0	0	418
Percent	78.5%	15.1%	6.2%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Daily

15th Percentile : 7 KPH  
 50th Percentile : 25 KPH  
 85th Percentile : 44 KPH  
 95th Percentile : 52 KPH  
  
 Mean Speed(Average) : 27 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 123  
 Percent in Pace : 29.4%  
 Number of Vehicles > 55 KPH : 14  
 Percent of Vehicles > 55 KPH : 3.3%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/11/16	5	3	1	0	0	0	0	0	0	0	0	0	0	9
01:00	1	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
05:00	2	0	1	0	0	0	0	0	0	0	0	0	0	3
06:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
07:00	4	2	1	0	0	0	0	0	0	0	0	0	0	7
08:00	11	3	1	1	0	0	0	0	0	0	0	0	0	16
09:00	20	4	3	0	0	0	0	0	0	0	0	0	0	27
10:00	17	6	2	0	0	0	0	0	0	0	0	0	0	25
11:00	24	2	1	0	0	0	0	0	0	0	0	0	0	27
12 PM	19	3	3	0	0	0	0	0	0	0	0	0	0	25
13:00	19	2	3	0	0	0	0	0	0	0	0	0	0	24
14:00	28	2	2	1	0	0	0	0	0	0	0	0	0	33
15:00	31	0	0	0	0	0	0	0	0	0	0	0	0	31
16:00	28	3	2	0	0	0	0	0	0	0	0	0	0	33
17:00	19	4	1	0	0	0	0	0	0	0	0	0	0	24
18:00	12	2	2	0	0	0	0	0	0	0	0	0	0	16
19:00	14	3	0	0	0	0	0	0	0	0	0	0	0	17
20:00	27	0	1	0	0	0	0	0	0	0	0	0	0	28
21:00	15	3	2	2	0	0	0	0	0	0	0	0	0	22
22:00	10	0	1	0	0	0	0	0	0	0	0	0	0	11
23:00	11	3	0	0	0	0	0	0	0	0	0	0	0	14
Total	322	48	28	4	0	0	0	0	0	0	0	0	0	402
Percent	80.1%	11.9%	7.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 44 KPH  
 95th Percentile : 54 KPH

Mean Speed(Average) : 26 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 121  
 Percent in Pace : 30.1%  
 Number of Vehicles > 55 KPH : 18  
 Percent of Vehicles > 55 KPH : 4.5%

# Harbourside Transportation Consultants

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Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/12/16	5	0	0	0	0	0	0	0	0	0	0	0	0	5
01:00	5	0	0	0	0	0	0	0	0	0	0	0	0	5
02:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
03:00	6	2	1	0	0	0	0	0	0	0	0	0	0	9
04:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:00	3	3	1	0	0	0	0	0	0	0	0	0	0	7
07:00	3	1	1	0	0	0	0	0	0	0	0	0	0	5
08:00	10	4	0	0	0	0	0	0	0	0	0	0	0	14
09:00	9	5	1	0	0	0	0	0	0	0	0	0	0	15
10:00	11	2	0	0	0	0	0	0	0	0	0	0	0	13
11:00	17	2	0	0	0	0	0	0	0	0	0	0	0	19
12 PM	25	4	0	0	0	0	0	0	0	0	0	0	0	29
13:00	24	8	1	0	0	0	0	0	0	0	0	0	0	33
14:00	18	5	1	0	0	0	0	0	0	0	0	0	0	24
15:00	41	1	1	0	0	0	0	0	0	0	0	0	0	43
16:00	37	3	2	0	0	0	0	0	0	0	0	0	0	42
17:00	26	2	1	0	0	0	0	0	0	0	0	0	0	29
18:00	39	3	1	0	0	0	0	0	0	0	0	0	0	43
19:00	29	3	1	0	0	0	0	0	0	0	0	0	0	33
20:00	21	0	0	0	0	0	0	0	0	0	0	0	0	21
21:00	12	4	0	0	0	0	0	0	0	0	0	0	0	16
22:00	8	4	0	0	0	0	0	0	0	0	0	0	0	12
23:00	6	3	1	1	0	0	0	0	0	0	0	0	0	11
Total	361	60	13	1	0	0	0	0	0	0	0	0	0	435
Percent	83.0%	13.8%	3.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 41 KPH  
 95th Percentile : 48 KPH  
  
 Mean Speed(Average) : 25 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 135  
 Percent in Pace : 31.0%  
 Number of Vehicles > 55 KPH : 8  
 Percent of Vehicles > 55 KPH : 1.7%

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 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

EB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	999	Total
06/13/16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	3	1	0	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	3	2	0	0	0	0	0	0	0	0	0	0	0	0	5
06:00	7	2	1	0	0	0	0	0	0	0	0	0	0	0	10
07:00	27	9	4	0	0	0	0	0	0	0	0	0	0	0	40
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	41	14	5	0	0	0	0	0	0	0	0	0	0	0	60
Percent	68.3%	23.3%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 8 KPH  
 50th Percentile : 29 KPH  
 85th Percentile : 47 KPH  
 95th Percentile : 54 KPH

Mean Speed(Average) : 29 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 19  
 Percent in Pace : 31.7%  
 Number of Vehicles > 55 KPH : 2  
 Percent of Vehicles > 55 KPH : 4.2%

Grand Total	1052	185	72	6	0	0	0	0	0	0	0	0	0	0	1315
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Overall

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 43 KPH  
 95th Percentile : 51 KPH

Mean Speed(Average) : 26 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 395  
 Percent in Pace : 30.0%  
 Number of Vehicles > 55 KPH : 42  
 Percent of Vehicles > 55 KPH : 3.2%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47° 37.1163 North  
 Longitude: 52° 49.6904 West

WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/10/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	6	5	0	0	0	0	0	0	0	0	0	0	0	11
10:00	6	3	0	0	0	0	0	0	0	0	0	0	0	9
11:00	6	5	0	0	0	0	0	0	0	0	0	0	0	11
12 PM	12	6	0	0	0	0	0	0	0	0	0	0	0	18
13:00	7	5	4	0	0	0	0	0	0	0	0	0	0	16
14:00	4	5	1	0	0	0	0	0	0	0	0	0	0	10
15:00	7	3	1	0	0	0	0	0	0	0	0	0	0	11
16:00	5	2	2	0	0	0	0	0	0	0	0	0	0	9
17:00	9	8	2	0	0	0	0	0	0	0	0	0	0	19
18:00	10	4	2	0	0	0	0	0	0	0	0	0	0	16
19:00	10	7	1	0	0	0	0	0	0	0	0	0	0	18
20:00	6	0	0	0	0	0	0	0	0	0	0	0	0	6
21:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
22:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
23:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	93	53	13	0	0	0	0	0	0	0	0	0	0	159
Percent	58.5%	33.3%	8.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 10 KPH  
 50th Percentile : 34 KPH  
 85th Percentile : 47 KPH  
 95th Percentile : 53 KPH

Mean Speed(Average) : 32 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 65  
 Percent in Pace : 40.9%  
 Number of Vehicles > 55 KPH : 6  
 Percent of Vehicles > 55 KPH : 4.1%

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Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
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 Latitude: 47' 37.1163 North  
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WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/11/16	0	1	0	0	0	0	0	0	0	0	0	0	0	1
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
07:00	5	4	0	0	0	0	0	0	0	0	0	0	0	9
08:00	3	5	0	0	0	0	0	0	0	0	0	0	0	8
09:00	9	3	0	0	0	0	0	0	0	0	0	0	0	12
10:00	5	2	0	0	0	0	0	0	0	0	0	0	0	7
11:00	6	5	3	0	0	0	0	0	0	0	0	0	0	14
12 PM	8	4	1	0	0	0	0	0	0	0	0	0	0	13
13:00	9	3	1	1	0	0	0	0	0	0	0	0	0	14
14:00	6	2	1	0	0	0	0	0	0	0	0	0	0	9
15:00	7	1	1	0	0	0	0	0	0	0	0	0	0	9
16:00	7	4	1	0	0	0	0	0	0	0	0	0	0	12
17:00	16	5	2	0	0	0	0	0	0	0	0	0	0	23
18:00	7	3	0	0	0	0	0	0	0	0	0	0	0	10
19:00	7	4	2	0	0	0	0	0	0	0	0	0	0	13
20:00	9	0	0	0	0	0	0	0	0	0	0	0	0	9
21:00	3	1	0	0	0	0	0	0	0	0	0	0	0	4
22:00	3	1	0	0	0	0	0	0	0	0	0	0	0	4
23:00	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	113	50	13	1	0	0	0	0	0	0	0	0	0	177
Percent	63.8%	28.2%	7.3%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 9 KPH  
 50th Percentile : 31 KPH  
 85th Percentile : 47 KPH  
 95th Percentile : 53 KPH

Mean Speed(Average) : 30 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 64  
 Percent in Pace : 36.2%  
 Number of Vehicles > 55 KPH : 7  
 Percent of Vehicles > 55 KPH : 4.2%

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 Date Start: 10-Jun-16  
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 Latitude: 47' 37.1163 North  
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WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/12/16	1	1	0	0	0	0	0	0	0	0	0	0	0	2
01:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00	1	1	0	0	0	0	0	0	0	0	0	0	0	2
07:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
08:00	3	1	1	0	0	0	0	0	0	0	0	0	0	5
09:00	4	3	2	0	0	0	0	0	0	0	0	0	0	9
10:00	6	1	1	0	0	0	0	0	0	0	0	0	0	8
11:00	12	3	0	0	0	0	0	0	0	0	0	0	0	15
12 PM	13	7	1	0	0	0	0	0	0	0	0	0	0	21
13:00	17	1	0	0	0	0	0	0	0	0	0	0	0	18
14:00	16	6	1	0	0	0	0	0	0	0	0	0	0	23
15:00	11	0	1	0	0	0	0	0	0	0	0	0	0	12
16:00	13	2	0	0	0	0	0	0	0	0	0	0	0	15
17:00	10	2	1	0	0	0	0	0	0	0	0	0	0	13
18:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
19:00	4	1	0	0	0	0	0	0	0	0	0	0	0	5
20:00	3	2	0	0	0	0	0	0	0	0	0	0	0	5
21:00	4	0	1	0	0	0	0	0	0	0	0	0	0	5
22:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
23:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
Total	127	34	9	0	0	0	0	0	0	0	0	0	0	170
Percent	74.7%	20.0%	5.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 8 KPH  
 50th Percentile : 26 KPH  
 85th Percentile : 45 KPH  
 95th Percentile : 50 KPH  
  
 Mean Speed(Average) : 27 KPH  
 15 KPH Pace Speed : 35-49 KPH  
 Number in Pace : 50  
 Percent in Pace : 29.4%  
 Number of Vehicles > 55 KPH : 5  
 Percent of Vehicles > 55 KPH : 2.6%

# Harbourside Transportation Consultants

Suite 306 - Terrace on the Square  
 8 Rowan Street, PO Box 23169  
 St. John's NL A1B 4J9  
 T 709.579.6435 F 709.579.7515

Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

WB

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/13/16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
06:00	3	4	1	0	0	0	0	0	0	0	0	0	0	8
07:00	22	13	4	0	0	0	0	0	0	0	0	0	0	39
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	26	17	5	0	0	0	0	0	0	0	0	0	0	48
Percent	54.2%	35.4%	10.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 11 KPH  
 50th Percentile : 36 KPH  
 85th Percentile : 48 KPH  
 95th Percentile : 55 KPH

Mean Speed(Average) : 33 KPH  
 15 KPH Pace Speed : 37-51 KPH  
 Number in Pace : 20  
 Percent in Pace : 41.7%  
 Number of Vehicles > 55 KPH : 3  
 Percent of Vehicles > 55 KPH : 5.2%

Grand Total	359	154	40	1	0	0	0	0	0	0	0	0	0	554
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Overall

15th Percentile : 9 KPH  
 50th Percentile : 30 KPH  
 85th Percentile : 47 KPH  
 95th Percentile : 53 KPH

Mean Speed(Average) : 30 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 199  
 Percent in Pace : 35.9%  
 Number of Vehicles > 55 KPH : 21  
 Percent of Vehicles > 55 KPH : 3.8%



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Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47° 37.1163 North  
 Longitude: 52° 49.6904 West

**EB, WB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
06/10/16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
01:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
02:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
03:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
04:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
05:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
06:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
07:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	13	8	0	0	0	0	0	0	0	0	0	0	0	21
10:00	14	5	1	0	0	0	0	0	0	0	0	0	0	20
11:00	17	7	0	0	0	0	0	0	0	0	0	0	0	24
12 PM	31	9	2	0	0	0	0	0	0	0	0	0	0	42
13:00	23	9	8	0	0	0	0	0	0	0	0	0	0	40
14:00	23	7	1	0	0	0	0	0	0	0	0	0	0	31
15:00	39	7	3	0	0	0	0	0	0	0	0	0	0	49
16:00	62	13	3	0	0	0	0	0	0	0	0	0	0	78
17:00	64	15	6	0	0	0	0	0	0	0	0	0	0	85
18:00	30	9	3	0	0	0	0	0	0	0	0	0	0	42
19:00	25	11	5	0	0	0	0	0	0	0	0	0	0	41
20:00	32	5	2	0	0	0	0	0	0	0	0	0	0	39
21:00	22	3	2	0	0	0	0	0	0	0	0	0	0	27
22:00	15	4	1	1	0	0	0	0	0	0	0	0	0	21
23:00	11	4	2	0	0	0	0	0	0	0	0	0	0	17
<b>Total</b>	<b>421</b>	<b>116</b>	<b>39</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>577</b>
<b>Percent</b>	<b>73.0%</b>	<b>20.1%</b>	<b>6.8%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>

Daily

15th Percentile : 8 KPH  
 50th Percentile : 27 KPH  
 85th Percentile : 45 KPH  
 95th Percentile : 52 KPH  
  
 Mean Speed(Average) : 28 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 169  
 Percent in Pace : 29.3%  
 Number of Vehicles > 55 KPH : 21  
 Percent of Vehicles > 55 KPH : 3.6%

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Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

**EB, WB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/11/16	5	4	1	0	0	0	0	0	0	0	0	0	0	10
01:00	1	1	0	0	0	0	0	0	0	0	0	0	0	2
02:00	1	0	0	0	0	0	0	0	0	0	0	0	0	1
03:00	2	1	0	0	0	0	0	0	0	0	0	0	0	3
04:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
05:00	3	0	1	0	0	0	0	0	0	0	0	0	0	4
06:00	2	3	1	0	0	0	0	0	0	0	0	0	0	6
07:00	9	6	1	0	0	0	0	0	0	0	0	0	0	16
08:00	14	8	1	1	0	0	0	0	0	0	0	0	0	24
09:00	29	7	3	0	0	0	0	0	0	0	0	0	0	39
10:00	22	8	2	0	0	0	0	0	0	0	0	0	0	32
11:00	30	7	4	0	0	0	0	0	0	0	0	0	0	41
12 PM	27	7	4	0	0	0	0	0	0	0	0	0	0	38
13:00	28	5	4	1	0	0	0	0	0	0	0	0	0	38
14:00	34	4	3	1	0	0	0	0	0	0	0	0	0	42
15:00	38	1	1	0	0	0	0	0	0	0	0	0	0	40
16:00	35	7	3	0	0	0	0	0	0	0	0	0	0	45
17:00	35	9	3	0	0	0	0	0	0	0	0	0	0	47
18:00	19	5	2	0	0	0	0	0	0	0	0	0	0	26
19:00	21	7	2	0	0	0	0	0	0	0	0	0	0	30
20:00	36	0	1	0	0	0	0	0	0	0	0	0	0	37
21:00	18	4	2	2	0	0	0	0	0	0	0	0	0	26
22:00	13	1	1	0	0	0	0	0	0	0	0	0	0	15
23:00	13	3	0	0	0	0	0	0	0	0	0	0	0	16
Total	435	98	41	5	0	0	0	0	0	0	0	0	0	579
Percent	75.1%	16.9%	7.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 26 KPH  
 85th Percentile : 45 KPH  
 95th Percentile : 54 KPH  
  
 Mean Speed(Average) : 28 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 163  
 Percent in Pace : 28.2%  
 Number of Vehicles > 55 KPH : 26  
 Percent of Vehicles > 55 KPH : 4.4%

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Newbury Street  
 Near Civic Address #22  
 Date Start: 10-Jun-16  
 Date End: 13-Jun-16  
 Latitude: 47' 37.1163 North  
 Longitude: 52' 49.6904 West

**EB, WB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/12/16	6	1	0	0	0	0	0	0	0	0	0	0	0	7
01:00	7	1	0	0	0	0	0	0	0	0	0	0	0	8
02:00	4	0	0	0	0	0	0	0	0	0	0	0	0	4
03:00	6	2	1	0	0	0	0	0	0	0	0	0	0	9
04:00	3	0	0	0	0	0	0	0	0	0	0	0	0	3
05:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
06:00	4	4	1	0	0	0	0	0	0	0	0	0	0	9
07:00	3	2	1	0	0	0	0	0	0	0	0	0	0	6
08:00	13	5	1	0	0	0	0	0	0	0	0	0	0	19
09:00	13	8	3	0	0	0	0	0	0	0	0	0	0	24
10:00	17	3	1	0	0	0	0	0	0	0	0	0	0	21
11:00	29	5	0	0	0	0	0	0	0	0	0	0	0	34
12 PM	38	11	1	0	0	0	0	0	0	0	0	0	0	50
13:00	41	9	1	0	0	0	0	0	0	0	0	0	0	51
14:00	34	11	2	0	0	0	0	0	0	0	0	0	0	47
15:00	52	1	2	0	0	0	0	0	0	0	0	0	0	55
16:00	50	5	2	0	0	0	0	0	0	0	0	0	0	57
17:00	36	4	2	0	0	0	0	0	0	0	0	0	0	42
18:00	42	3	1	0	0	0	0	0	0	0	0	0	0	46
19:00	33	4	1	0	0	0	0	0	0	0	0	0	0	38
20:00	24	2	0	0	0	0	0	0	0	0	0	0	0	26
21:00	16	4	1	0	0	0	0	0	0	0	0	0	0	21
22:00	9	4	0	0	0	0	0	0	0	0	0	0	0	13
23:00	8	4	1	1	0	0	0	0	0	0	0	0	0	14
Total	488	94	22	1	0	0	0	0	0	0	0	0	0	605
Percent	80.7%	15.5%	3.6%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 7 KPH  
 50th Percentile : 24 KPH  
 85th Percentile : 42 KPH  
 95th Percentile : 49 KPH  
  
 Mean Speed(Average) : 26 KPH  
 15 KPH Pace Speed : 1-15 KPH  
 Number in Pace : 183  
 Percent in Pace : 30.2%  
 Number of Vehicles > 55 KPH : 12  
 Percent of Vehicles > 55 KPH : 2.0%

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 Date Start: 10-Jun-16  
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 Latitude: 47' 37.1163 North  
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**EB, WB**

Start Time	1	41	51	61	71	81	91	101	111	121	131	141	151	Total
	40	50	60	70	80	90	100	110	120	130	140	150	999	
06/13/16	1	0	0	0	0	0	0	0	0	0	0	0	0	1
01:00	3	1	0	0	0	0	0	0	0	0	0	0	0	4
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00	4	2	0	0	0	0	0	0	0	0	0	0	0	6
06:00	10	6	2	0	0	0	0	0	0	0	0	0	0	18
07:00	49	22	8	0	0	0	0	0	0	0	0	0	0	79
08:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
09:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12 PM	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
22:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
23:00	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Total	67	31	10	0	0	0	0	0	0	0	0	0	0	108
Percent	62.0%	28.7%	9.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	

Daily

15th Percentile : 9 KPH  
 50th Percentile : 32 KPH  
 85th Percentile : 48 KPH  
 95th Percentile : 54 KPH

Mean Speed(Average) : 31 KPH  
 15 KPH Pace Speed : 36-50 KPH  
 Number in Pace : 39  
 Percent in Pace : 36.1%  
 Number of Vehicles > 55 KPH : 5  
 Percent of Vehicles > 55 KPH : 4.6%

Grand Total	1411	339	112	7	0	0	0	0	0	0	0	0	0	1869
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Overall

15th Percentile : 7 KPH  
 50th Percentile : 26 KPH  
 85th Percentile : 45 KPH  
 95th Percentile : 52 KPH

Mean Speed(Average) : 27 KPH  
 15 KPH Pace Speed : 26-40 KPH  
 Number in Pace : 529  
 Percent in Pace : 28.3%  
 Number of Vehicles > 55 KPH : 63  
 Percent of Vehicles > 55 KPH : 3.4%