Annual Average Daily Traffic Diagram

Total Factor = Monthly Factor(0.95) x Daily Factor(1.00) x 24 Hour Factor(1.88) = 1.786000

Municipality: City of Kingston

Site #:

0000000001

Intersection: Princess St & Gardiners Rd

TFR File #:

Count date:

North Peds:

Peds Cross:

14-Jun-2012

Weather conditions:

Person(s) who counted:

MIOVISION

** Signalized Intersection **

25

North Leg Total: 24718 North Entering: 12348 Cyclists 5 Trucks 36

Cars 2029

Totals

4 159 6699 3111

3274

498 11839

11

Cyclists 9

Trucks 518

Major Road: Princess St runs W/E

Cars 11843 Totals 12370

East Leg Total: 29896

East Entering: 15549 East Peds: 34

3213

9584

2752

X Peds Cross:

Cyclists Trucks Cars Totals

346 14695 15060



2070

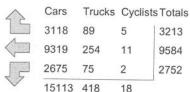


304

7005



Gardiners Rd



Princess St

11214

400

9

Princess St

Cyclists Trucks Cars Totals 132 2979 3111 11 325 8566 8901 64 2486 2552

13 522 14031



Gardiners Rd



Cars Trucks Cyclists Totals 13799 530 18 14347

South Peds:

Peds Cross: West Peds:

X 91

West Entering: 14565 West Leg Total: 29624

Cars 11861 Trucks 443

Cyclists 5 Totals 12309

Trucks 57 Cyclists 2

Cars 3347 5746 2122 296 46 4 4 Totals 3406 6046 2172

Peds Cross:

South Entering: 11623 South Leg Total: 23932

75

Total Count Diagram

Municipality: City of Kingston

Site #:

000000001

Intersection: Princess St & Gardiners Rd

TFR File #:

Count date:

14-Jun-2012

Weather conditions:

Person(s) who counted:

MIOVISION

** Signalized Intersection **

Major Road: Princess St runs W/E

North Leg Total: 13840

North Entering: 6914

North Peds: 14

Peds Cross:

Cyclists 3 2 6 Trucks 20 170 89 279 Cars 1136 3751 1742 6629

Totals 1159 3922 1833 Cyclists 5 Trucks 290

> Cars 6631 Totals 6926

East Leg Total: 16739 East Entering: 8706 East Peds: 19

X Peds Cross:

Cyclists Trucks Cars Totals

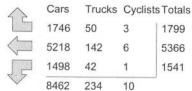
194 8228 8432





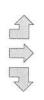


Gardiners Rd



Princess St

Cyclists Trucks Cars Totals 74 1668 1742 182 4796 4984 36 1392 1429 292 7856





Princess St



Cars Trucks Cyclists Totals 7726 297 10

Peds Cross:

X West Peds:

West Entering: 8155

West Leg Total: 16587

Cars 6641 Trucks 248 Cyclists 3

Totals 6892

Gardiners Rd

Cars 1874 Trucks 32 Cyclists 1

3217 6279 1188 166 26 224 2 2 5 Totals 1907 3385 1216

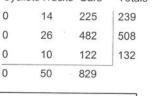
Peds Cross: South Peds: 42 South Entering: 6508

South Leg Total: 13400

Princess St @ Gardiners Rd Traffic Count Summary

						ount							
Intersection:				STATE OF THE STATE	Count D	Date: 14-Jun-2	012	Muni	icipality: Ci				
	Includ	h Appro	rucks, & C	tals Cyclists					Sout	th Appr	oach To	tals	
Hour Ending	Left	Thru	Right	Grand Total	Total Peds	North/South Total Approaches	Hou Endir		Left	Thru	Right	Grand Total	Total Peds
9:00:00 10:00:00 12:00:00 13:00:00 15:00:00 16:00:00 17:00:00 19:00:00	195 229 226 194 235 327 282			694 728 863 979 762 804 1137 947 0	0 2 3 0 1 2 2 4 0	1717	10:00 12:00 13:00 15:00 16:00 17:00 18:00	:00 :00 :00 :00 :00 :00	92 139 224 282 256 286 314 314	328 412 477 485 435	70 106 156 196 142 192 177 177	534	12
Totals:	1833 East	3922 Approa	1159 ich Tota	6914	14	13422			1907 West	3385 t Appro	1216 ach Tota	6508 als	42
Hour Ending	Left	Thru	Right	Grand Total	Total Peds	East/West Total Approaches	Hour		Left	Thru	Right	Grand Total	Total
9:00:00 10:00:00 12:00:00 13:00:00 15:00:00 16:00:00 17:00:00 18:00:00 19:00:00	127 182 202 218 194 213 228 177 0	453 464 590 616 686 817 976 764 0	213 195 197 255 235 247 259 198 0	793 841 989 1089 1115 1277 1463 1139 0	1 1 4 3 3 2 2 3 0	1784 1667 1977 2133 2155 2280 2576	9:00: 10:00: 12:00:	00 00 00 00 00 00 00	278 185 213 256 227 198 174 211	594 491 605 581 623 622 740 728 0	119 150 170 207 190 183 199 211 0	991 826 988 1044 1040 1003 1113 1150 0	Peds 3 4 9 7 7 4 11 6 0
Totals: Hours End Crossing \		5366 9:00 698	1799 Calcu 10:00 791	8706 Ilated Va 12:00 982	19 alues for 13:00 1104	16861 r Traffic Cro	ssing 15:0 94	0	1742 jor Stree 16:00 962	4984 et 17:00 1209	1429 18:00 1107	8155	51

Princess St @ Gardiners Rd **Specified Period** Morning Peak Diagram One Hour Peak From: 8:00:00 From: 8:30:00 To: 10:00:00 To: 9:30:00 Municipality: City of Kingston Weather conditions: Site #: 000000001 Intersection: Princess St & Gardiners Rd Person(s) who counted: TFR File #: MIOVISION Count date: 14-Jun-2012 ** Signalized Intersection ** Major Road: Princess St runs W/E North Leg Total: 1577 Cyclists 0 0 Cyclists 2 East Leg Total: 1632 North Entering: 741 Trucks 4 23 9 36 Trucks 52 East Entering: 855 North Peds: Cars 95 178 705 Cars 782 East Peds: Peds Cross: Totals 99 455 187 X Totals 836 Peds Cross: Gardiners Rd Cyclists Trucks Cars Totals Trucks Cyclists Totals 34 665 702 199 2 10 211 450 2 28 480 158 6 0 164 Princess St 807 Cyclists Trucks Cars Totals Princess St 14 225 239







Cars	Trucks	Cyclists	Totals
739	38	0	777

Peds Cross:	X
West Peds:	3
West Entering:	879
West Leg Total:	158

Cars	712
Trucks	39
Cyclists	0
Totals	751



Peds Cross: South Peds: 3 South Entering: 591 South Leg Total: 1342

Princess St @ Gardiners Rd Mid-day Peak Diagram **Specified Period** One Hour Peak From: 11:00:00 From: 11:45:00 To: 13:00:00 To: 12:45:00 Municipality: City of Kingston Weather conditions: Site #: 0000000001 Intersection: Princess St & Gardiners Rd Person(s) who counted: TFR File #: MIOVISION Count date: 14-Jun-2012 ** Signalized Intersection ** Major Road: Princess St runs W/E North Leg Total: 1951 Cyclists 0 0 0 Cyclists 0 East Leg Total: 2146 North Entering: 1002 Trucks 2 25 7 34 Trucks 34 East Entering: 1120 North Peds: Cars 171 556 241 968 Cars 915 East Peds: Peds Cross: Totals 173 581 248 X Totals 949 Peds Cross: Gardiners Rd Cyclists Trucks Cars Totals Cars Trucks Cyclists Totals 20 1083 1103 226 0 235 640 0 654 222 9 0 231 Princess St 1088 Cyclists Trucks Cars Totals Princess St 5 239 244 13 573 560 190 194 Cars Trucks Cyclists Totals 22 989 1004 1026 Gardiners Rd Peds Cross: X Cars 968 Cars 272 450 203 925 Peds Cross: M West Peds: 10 Trucks 38 Trucks 4 2 20 26 South Peds: 3 West Entering: 1011 Cyclists 0 Cyclists 0 0 0 0 South Entering: 951 West Leg Total: 2114 Totals 1006 Totals 276 205 South Leg Total: 1957 Comments

Princess St @ Gardiners Rd Afternoon Peak Diagram **Specified Period** One Hour Peak From: 14:00:00 From: 16:15:00 To: 18:00:00 To: 17:15:00 Municipality: City of Kingston Weather conditions: Site #: 0000000001 Intersection: Princess St & Gardiners Rd Person(s) who counted: TFR File #: MIOVISION Count date: 14-Jun-2012 ** Signalized Intersection ** Major Road: Princess St runs W/E North Leg Total: 2077 Cyclists 3 Cyclists 1 East Leg Total: 2691 North Entering: 1202 Trucks 3 13 25 41 Trucks 22 East Entering: 1399 North Peds: Cars 264 595 298 1157 Cars 852 East Peds: 3 Peds Cross: Totals 270 608 324 X Totals 875 Peds Cross: Gardiners Rd Cyclists Trucks Cars Totals Trucks Cyclists Totals 18 1527 223 0 3 226 936 12 949 220 0 224 Princess St 1379 19 Cyclists Trucks Cars Totals Princess St 170 174 24 750 774 2 202 Cars Trucks Cyclists Totals 1122 1236 1292 Gardiners Rd X Peds Cross: Cars 1017 Cars 327 459 188 974 Peds Cross: West Peds: Trucks 19 Trucks 3 15 4 22 South Peds: 9 West Entering: 1152 Cyclists 0 Cyclists 0 1 2 3 South Entering: 999 West Leg Total: 2701 Totals 1036 Totals 330 194 South Leg Total: 2035 Comments

Eight Hour Peak Diagram

Eight Hour Peak

From: 8:00:00

To: 16:00:00

Municipality: City of Kingston

Site #:

0000000001

Intersection: Princess St & Gardiners Rd

TFR File #:

Count date:

North Leg Total: 10038

North Entering: 4830

North Peds:

Peds Cross:

14-Jun-2012

Weather conditions:

Person(s) who counted:

MIOVISION

** Signalized Intersection **

8

Cyclists 0 1 Trucks 15 146 44 205 Cars 726 2719 1179 4624

Totals 741 2865 1224 Major Road: Princess St runs W/E

Cyclists 3 Trucks 249 Cars 4956

Totals 5208

East Leg Total: 11706 East Entering: 6104 East Peds:

14 X Peds Cross:

Cyclists Trucks Cars Totals 167 5474 5646







Trucks Cyclists Totals 1295 3 44 1342 3497 4 125 3626 1102 34 0 1136 5894 203

Princess St

Cyclists Trucks Cars Totals 63 1294 1357 138 3372 3516 33 985 1019 234 5651



Princess St



Cars Trucks Cyclists Totals 5392 203 5602

Peds Cross: X West Peds: 34 West Entering: 5892 West Leg Total: 11538

Cars 4806 Trucks 213 Cyclists 1 Totals 5020

Cars 1251 2367 841 4459 Trucks 27 142 21 190 Cyclists 1 0 0 Totals 1279 2509 862

Peds Cross: South Peds: 22 South Entering: 4650 South Leg Total: 9670

Count Date:

14-Jun-2012

Intersection: Princess St & Gardiners Rd

Major Road: Princess St

Operating Speed of Major Road: 60 km/hr

Municipality: City of Kingston

Major Road Runs: E/W two lanes each way

Operating under restricted flow conditions

Warrant #1: Minimum Vehicular Volumes.

A. All Approaches.

100% Satisfied

	Minim	um Require	ements											
1 Lane Each Way		2 Lanes Each Way 3		3 Lanes		Hours Ending								
1 Lane F. Flow (Code 1)	1 Lane R. Flow (Code 2)	2 Lane F. Flow (Code 3)	2 Lane R. Flow (Code 4)	or More R. Flow (Code 5)	9:00	10:00	12:00	13:00	15:00	16:00	17:00	18:00	Percenta Warra	
480	720	600	900	1125										100%
385	575	480	720	900	3012	2968	3632	4067	3800	3997	4646	4161	Yes: No:	Х
	10	00% Fulfille	ed		100	100	100	100	100	100	100	100		800
	80	0% Fulfille	d											0
	Actual % if Below 80%													0
	1 Lane F. Flow (Code 1)	1 Lane Each Way 1 Lane F. Flow (Code 1) 480 720 385 575	1 Lane Each Way 2 Lanes E 1 Lane F. Flow (Code 1) (Code 2) (Code 3) 480 720 600 385 575 480 100% Fulfilled 80% Fulfilled 80% Fulfilled 100% F	1 Lane F. Flow (Code 1)	1 Lane Each Way 2 Lanes Each Way 3 Lanes 1 Lane F. Flow (Code 1) 1 Lane R. Flow (Code 2) 2 Lane F. Flow (Code 3) 2 Lane R. Flow (Code 4) or More R. Flow (Code 5) 480 720 600 900 1125 385 575 480 720 900 100% Fulfilled 80% Fulfilled	1 Lane Each Way 2 Lanes Each Way 3 Lanes 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane F, Flow (Code 3) 2 Lane R, Flow (Code 4) or More R, Flow (Code 5) 480 720 600 900 1125 385 575 480 720 900 100% Fulfilled 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes 1 Lane F. Flow (Code 1) 1 Lane R. Flow (Code 2) 2 Lane F. Flow (Code 4) 0r More R. Flow (Code 5) 9:00 10:00 480 720 600 900 1125 3012 2968 385 575 480 720 900 100 100 100% Fulfilled 100 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes 1 Lane F. Flow (Code 1) 1 Lane R. Flow (Code 2) 2 Lane F. Flow (Code 3) 2 Lane R. Flow (Code 4) 9:00 10:00 12:00 480 720 600 900 1125 3012 2968 3632 385 575 480 720 900 100 100 100 80% Fulfilled 100 100 100 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane R, Flow (Code 3) 2 Lane R, Flow (Code 4) 9:00 10:00 12:00 13:00 480 720 600 900 1125 3012 2968 3632 4067 385 575 480 720 900 100 100 100 100 80% Fulfilled 100 100 100 100 100 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours Ending 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane F, Flow (Code 4) 0r More R, Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 480 720 600 900 1125 3012 2968 3632 4067 3800 385 575 480 720 900 100 100 100 100 100 100% Fulfilled 100 100 100 100 100 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours Ending 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane R, Flow (Code 4) or More R, Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 480 720 600 900 1125 3012 2968 3632 4067 3800 3997 385 575 480 720 900 100 100 100 100 100 100 100 100 100 100 80% Fulfilled 100 100 100 100 100 100 100 100 100	1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours Ending 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane R, Flow (Code 3) 2 Lane R, Flow (Code 4) or More R, Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 480 720 600 900 1125 3012 2968 3632 4067 3800 3997 4646 385 575 480 720 900 100 <td>1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours Ending 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane F, Flow (Code 4) or More R, Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 18:00 480 720 600 900 1125 3012 2968 3632 4067 3800 3997 4646 4161 385 575 480 720 900 100<!--</td--><td>1 Lane Each Way 2 Lane F. Flow (Code 1) 2 Lane F. Flow (Code 2) 2 Lane R. Flow (Code 3) 2 Lane R. Flow (Code 4) 1000 Per R. Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 18:00 Per R. Flow (Code 2) 1000 900 1125 3012 2968 3632 4067 3800 3997 4646 4161 Yes: No: 385 575 480 720 900 100</td></td>	1 Lane Each Way 2 Lanes Each Way 3 Lanes Hours Ending 1 Lane F, Flow (Code 1) 1 Lane R, Flow (Code 2) 2 Lane F, Flow (Code 4) or More R, Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 18:00 480 720 600 900 1125 3012 2968 3632 4067 3800 3997 4646 4161 385 575 480 720 900 100 </td <td>1 Lane Each Way 2 Lane F. Flow (Code 1) 2 Lane F. Flow (Code 2) 2 Lane R. Flow (Code 3) 2 Lane R. Flow (Code 4) 1000 Per R. Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 18:00 Per R. Flow (Code 2) 1000 900 1125 3012 2968 3632 4067 3800 3997 4646 4161 Yes: No: 385 575 480 720 900 100</td>	1 Lane Each Way 2 Lane F. Flow (Code 1) 2 Lane F. Flow (Code 2) 2 Lane R. Flow (Code 3) 2 Lane R. Flow (Code 4) 1000 Per R. Flow (Code 5) 9:00 10:00 12:00 13:00 15:00 16:00 17:00 18:00 Per R. Flow (Code 2) 1000 900 1125 3012 2968 3632 4067 3800 3997 4646 4161 Yes: No: 385 575 480 720 900 100

Total: 800 Actual Average (Total/8): 100%

B. Minor Street Both Approaches.

100%	120	170	120	170	170	1000									100%
80%	95	135	95	135	135	1228	1301	1655	1934	1645	1717	2070	1872	Yes: No:	X
Minor		100% Fulfilled					100	100	100	100	100	100	100		800
Street Both Approa- ches		80	0% Fulfille	d			į.								0
		Actual	% if Belov	v 80%											0

Total: Actual Average (Total/8): 100%

Count Date:

14-Jun-2012

Intersection: Princess St & Gardiners Rd

Major Road: Princess St

Operating Speed of Major Road: 60 km/hr

Municipality: City of Kingston

Major Road Runs: E/W two lanes each way

Operating under restricted flow conditions

Warrant #2: Delay to Cross Traffic.

A. Major Street Both Approaches.

100% Satisfied

		Minim	um Require	ements											
No. of Lanes	1 Lane Each Way		2 Lanes Each Way		3 Lanes		Hours Ending								#5
Flow Condition	1 Lane F. Flow (Code 1)	1 Lane R. Flow (Code 2)	2 Lane F. Flow (Code 3)	2 Lane R. Flow (Code 4)	or More R. Flow (Code 5)	9:00	10:00	12:00	13:00	15:00	16:00	17:00	18:00	Perc W	entage Varrant
100%	480	720	600	900	1125	4704	4007	1077	0400						100%
80%	385	575	480	720	900	1784	1667	1977	2133	2155	2280	2576	2289	Yes: No:	X
		10	00% Fulfille	ed		100	100	100	100	100	100	100	100		800
All Approa- ches		8	0% Fulfille	d											0
		Actual % if Below 80%													0

Total: 800 Actual Average (Total/8): 100%

B. Traffic Crossing Major Street.

100%	50	75	50	75	75										100%
80%	40	60	40	60	60	698	791	982	1104	945	962	1209	1107	Yes: No:	Х
All	100% Fulfilled				100	100	100	100	100	100	100	100		800	
Approa- ches		80	0% Fulfille	d					Ø			-			0
		Actual	% if Belov	w 80%											0

Total: 800 Actual Average (Total/8): 100%

Count Date:

14-Jun-2012

Intersection: Princess St & Gardiners Rd

Major Road: Princess St

Operating Speed of Major Road: 60 km/hr

Municipality: City of Kingston

Major Road Runs: E/W two lanes each way

Operating under restricted flow conditions

Warrant #3: Accident Experience.

Not Satisfied

A. Reportable accidents within a twelve month period averaged over 36 consequtive months susceptible to correction by a traffic signal.

Minimum Requirements	Actual Number of Accidents	Average Number of Accidents	Fulfilled
5	0 in 0 years	Invalid	0%
3. Adequate trial of less res	strictive remedies has failed to reduce a	ccident frequency.	No
		Title Control of the	INO

Warrant #4: Combination Warrant. (Used if no warrant satisfied 100%)

Satisfied

Minimum Requirements	Warrant Satisfied 80% or More	Fulfilled
Two Warrants Satisfied 80%	Warrant 1 (Minimum Vehicular Volume) Warrant 2 (Delay to Cross Traffic) Warrant 3 (Accident Experience)	Yes Yes No

Conclusion: Traffic signal warranted.

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Site #:	
14-Jun-2012	
Date:	
Count	

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Interval		Fassen	ger Cars -	Passenger Cars - West Approach	proach			Truc	ks - Wes	Trucks - West Approach	ch			Cycl	Cyclists - West Approach	st Appro	ach		Pedestrians	triane
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