

Queueing Delay results: (16:45-17:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.22	0.28	0.027	A	A
B	1.69	0.11	0.052	A	A
C	2.60	0.17	0.030	A	A

Queueing Delay results: (17:00-17:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	5.36	0.36	0.028	A	A
B	2.19	0.15	0.056	A	A
C	3.25	0.22	0.032	A	A

Queueing Delay results: (17:15-17:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	7.17	0.48	0.031	A	A
B	2.99	0.20	0.062	A	A
C	4.23	0.28	0.034	A	A

Queueing Delay results: (17:30-17:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	7.25	0.48	0.031	A	A
B	3.05	0.20	0.062	A	A
C	4.28	0.29	0.034	A	A

Queueing Delay results: (17:45-18:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	5.49	0.37	0.028	A	A
B	2.27	0.15	0.056	A	A
C	3.33	0.22	0.032	A	A

Queueing Delay results: (18:00-18:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.33	0.29	0.027	A	A
B	1.76	0.12	0.052	A	A
C	2.67	0.18	0.030	A	A

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.00	10.00	25.00	40.00	49.00	23.00		0.858	2913.181
B	3.00	6.50	15.00	60.00	49.00	24.50		0.608	1594.519
C	5.50	8.00	19.00	45.00	49.00	12.00		0.772	2396.694

Overview: Time Segment Results

Time Segment Results

Start	End	Average Delay Per

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Queue (PCU)	Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Arriving Vehicle (min)
16:45-17:00	A	639.17	2879.65	0.222	0.00	0.00	0.28	4.22	(0.00)	0.027
16:45-17:00	B	134.01	1296.33	0.103	0.00	0.00	0.11	1.69	(0.00)	0.052
16:45-17:00	C	347.06	2320.29	0.150	0.00	0.00	0.18	2.60	(0.00)	0.030
17:00-17:15	A	763.23	2873.08	0.266	0.00	0.28	0.36	5.36	(0.00)	0.028
17:00-17:15	B	160.02	1237.96	0.129	0.00	0.11	0.15	2.19	(0.00)	0.056
17:00-17:15	C	414.43	2305.22	0.180	0.00	0.18	0.22	3.25	(0.00)	0.032
17:15-17:30	A	934.77	2864.08	0.326	0.00	0.36	0.48	7.17	(0.00)	0.031
17:15-17:30	B	195.98	1157.87	0.169	0.00	0.15	0.20	2.99	(0.00)	0.062
17:15-17:30	C	507.57	2284.69	0.222	0.00	0.22	0.28	4.23	(0.00)	0.034
17:30-17:45	A	934.77	2864.05	0.326	0.00	0.48	0.48	7.25	(0.00)	0.031
17:30-17:45	B	195.98	1157.65	0.169	0.00	0.20	0.20	3.05	(0.00)	0.062
17:30-17:45	C	507.57	2284.57	0.222	0.00	0.28	0.29	4.28	(0.00)	0.034
17:45-18:00	A	763.23	2873.04	0.266	0.00	0.48	0.36	5.49	(0.00)	0.028
17:45-18:00	B	160.02	1237.59	0.129	0.00	0.20	0.15	2.27	(0.00)	0.056
17:45-18:00	C	414.43	2305.02	0.180	0.00	0.29	0.22	3.33	(0.00)	0.032
18:00-18:15	A	639.17	2879.57	0.222	0.00	0.36	0.29	4.33	(0.00)	0.027
18:00-18:15	B	134.01	1295.65	0.103	0.00	0.15	0.12	1.76	(0.00)	0.052
18:00-18:15	C	347.06	2319.95	0.150	0.00	0.22	0.18	2.67	(0.00)	0.030

A1 - (Default Analysis Set) - D4 - 2014 PCU - Peregrine Way/Wretchwick Way AM Peak, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2014 PCU - Peregrine Way/Wretchwick Way AM Peak, AM	2014 PCU - Peregrine Way/Wretchwick Way AM Peak	AM			Yes			07:45	09:15	90	15	Varies by Arm

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	(untitled)	A,B,C	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
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Left	Normal/unknown ((Mini-roundabouts only))
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Arms

Arms

ID	Name	Description
A	Neunkirchen Way	
B	Peregine Way	
C	Wretchwick Way North	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
A	0.00	99999.00		0.00
B	0.00	99999.00		0.00
C	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.00	10.00	25.00	40.00	49.00	23.00	
B	3.00	6.50	15.00	60.00	49.00	24.50	
C	5.50	8.00	19.00	45.00	49.00	12.00	

Pedestrian Crossings

Arm	Crossing Type
A	None
B	None
C	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
A		((calculated))	((calculated))	0.858	2913.181
B		((calculated))	((calculated))	0.608	1594.519
C		((calculated))	((calculated))	0.772	2396.694

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
		Yes	Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)	PHF
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A	ONE HOUR	Yes	486.00	100.000	N/A
B	ONE HOUR	Yes	232.00	100.000	N/A
C	ONE HOUR	Yes	706.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
07:45-08:00	A	365.89	365.89	N/A	N/A
07:45-08:00	B	174.66	174.66	N/A	N/A
07:45-08:00	C	531.51	531.51	N/A	N/A
08:00-08:15	A	436.90	436.90	N/A	N/A
08:00-08:15	B	208.56	208.56	N/A	N/A
08:00-08:15	C	634.68	634.68	N/A	N/A
08:15-08:30	A	535.10	535.10	N/A	N/A
08:15-08:30	B	255.44	255.44	N/A	N/A
08:15-08:30	C	777.32	777.32	N/A	N/A
08:30-08:45	A	535.10	535.10	N/A	N/A
08:30-08:45	B	255.44	255.44	N/A	N/A
08:30-08:45	C	777.32	777.32	N/A	N/A
08:45-09:00	A	436.90	436.90	N/A	N/A
08:45-09:00	B	208.56	208.56	N/A	N/A
08:45-09:00	C	634.68	634.68	N/A	N/A
09:00-09:15	A	365.89	365.89	N/A	N/A
09:00-09:15	B	174.66	174.66	N/A	N/A
09:00-09:15	C	531.51	531.51	N/A	N/A

Turning Proportions

Turning Counts or Proportions (PCU/hr) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	131.00	355.00
	B	188.00	0.00	44.00
	C	683.00	23.00	0.00

Turning Proportions (PCU) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.27	0.73
	B	0.81	0.00	0.19
	C	0.97	0.03	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	1.00	1.00	1.00
	B	1.00	1.00	1.00

	C	1.00	1.00	1.00

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.00	0.00
	B	0.00	0.00	0.00
	C	0.00	0.00	0.00

Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS	Total Demand (PCU/hr)	Total Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (min)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Queueing Total Delay (PCU-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
A	0.19	0.03	0.23	A	445.96	668.94	16.44	0.02	0.18	16.44	0.02	0.858	2913.181
B	0.19	0.05	0.23	A	212.89	319.33	16.29	0.05	0.18	16.29	0.05	0.608	1594.519
C	0.35	0.04	0.53	A	647.84	971.76	36.56	0.04	0.41	36.56	0.04	0.772	2396.694

Main Results

Main results: (07:45-08:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	365.89	91.47	365.31	654.12	17.28	0.00	2898.36	2851.93	0.126	0.00	0.14
B	174.66	43.67	174.11	115.74	266.84	0.00	1432.38	328.69	0.122	0.00	0.14
C	531.51	132.88	530.31	299.86	141.09	0.00	2287.85	2191.21	0.232	0.00	0.30

Main results: (08:00-08:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	436.90	109.23	436.77	782.56	20.67	0.00	2895.45	2851.93	0.151	0.14	0.18
B	208.56	52.14	208.42	138.40	319.04	0.00	1400.66	328.69	0.149	0.14	0.17
C	634.68	158.67	634.34	358.57	168.89	0.00	2266.39	2191.21	0.280	0.30	0.39

Main results: (08:15-08:30)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	535.10	133.77	534.90	958.25	25.30	0.00	2891.47	2851.93	0.185	0.18	0.23
B	255.44	63.86	255.21	169.49	390.72	0.00	1357.10	328.69	0.188	0.17	0.23
C	777.32	194.33	776.75	439.12	206.81	0.00	2237.14	2191.21	0.347	0.39	0.53

Main results: (08:30-08:45)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	535.10	133.77	535.10	958.98	25.32	0.00	2891.45	2851.93	0.185	0.23	0.23
B	255.44	63.86	255.43	169.56	390.86	0.00	1357.02	328.69	0.188	0.23	0.23
C	777.32	194.33	777.32	439.31	206.99	0.00	2237.00	2191.21	0.347	0.53	0.53

Main results: (08:45-09:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	535.10	133.77	535.10	958.98	25.32	0.00	2891.45	2851.93	0.185	0.23	0.23
B	255.44	63.86	255.43	169.56	390.86	0.00	1357.02	328.69	0.188	0.23	0.23
C	777.32	194.33	777.32	439.31	206.99	0.00	2237.00	2191.21	0.347	0.53	0.53

	(PCU/hr)	(PCU)	(PCU/hr)	(PCU/hr)	(PCU/hr)	(PCU/hr)	(PCU/hr)	(PCU/hr)	(PCU)	(PCU)	(PCU)
A	436.90	109.23	437.10	783.74	20.69	0.00	2895.42	2851.93	0.151	0.23	0.18
B	208.56	52.14	208.79	138.51	319.28	0.00	1400.51	328.69	0.149	0.23	0.18
C	634.68	158.67	635.24	358.88	169.19	0.00	2266.17	2191.21	0.280	0.53	0.39

Main results: (09:00-09:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	365.89	91.47	366.02	656.19	17.33	0.00	2898.31	2851.93	0.126	0.18	0.14
B	174.66	43.67	174.81	115.99	267.36	0.00	1432.06	328.69	0.122	0.18	0.14
C	531.51	132.88	531.86	300.51	141.65	0.00	2287.41	2191.21	0.232	0.39	0.30

Queueing Delay Results

Queueing Delay results: (07:45-08:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	2.14	0.14	0.024	A	A
B	2.04	0.14	0.048	A	A
C	4.46	0.30	0.034	A	A

Queueing Delay results: (08:00-08:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	2.64	0.18	0.024	A	A
B	2.58	0.17	0.050	A	A
C	5.75	0.38	0.037	A	A

Queueing Delay results: (08:15-08:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.37	0.22	0.025	A	A
B	3.42	0.23	0.054	A	A
C	7.85	0.52	0.041	A	A

Queueing Delay results: (08:30-08:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.40	0.23	0.025	A	A
B	3.47	0.23	0.054	A	A
C	7.96	0.53	0.041	A	A

Queueing Delay results: (08:45-09:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	2.69	0.18	0.024	A	A
B	2.67	0.18	0.050	A	A
C	5.93	0.40	0.037	A	A

Queueing Delay results: (09:00-09:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	2.19	0.15	0.024	A	A
B	2.12	0.14	0.048	A	A
C	4.60	0.31	0.034	A	A

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.00	10.00	25.00	40.00	49.00	23.00		0.858	2913.181
B	3.00	6.50	15.00	60.00	49.00	24.50		0.608	1594.519
C	5.50	8.00	19.00	45.00	49.00	12.00		0.772	2396.694

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (PCU)	End Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Average Delay Per Arriving Vehicle (min)
07:45-08:00	A	365.89	2898.36	0.126	0.00	0.00	0.14	2.14	(0.00)	0.024
07:45-08:00	B	174.66	1432.38	0.122	0.00	0.00	0.14	2.04	(0.00)	0.048
07:45-08:00	C	531.51	2287.85	0.232	0.00	0.00	0.30	4.46	(0.00)	0.034
08:00-08:15	A	436.90	2895.45	0.151	0.00	0.14	0.18	2.64	(0.00)	0.024
08:00-08:15	B	208.56	1400.66	0.149	0.00	0.14	0.17	2.58	(0.00)	0.050
08:00-08:15	C	634.68	2266.39	0.280	0.00	0.30	0.39	5.75	(0.00)	0.037
08:15-08:30	A	535.10	2891.47	0.185	0.00	0.18	0.23	3.37	(0.00)	0.025
08:15-08:30	B	255.44	1357.10	0.188	0.00	0.17	0.23	3.42	(0.00)	0.054
08:15-08:30	C	777.32	2237.14	0.347	0.00	0.39	0.53	7.85	(0.00)	0.041
08:30-08:45	A	535.10	2891.45	0.185	0.00	0.23	0.23	3.40	(0.00)	0.025
08:30-08:45	B	255.44	1357.02	0.188	0.00	0.23	0.23	3.47	(0.00)	0.054
08:30-08:45	C	777.32	2237.00	0.347	0.00	0.53	0.53	7.96	(0.00)	0.041
08:45-09:00	A	436.90	2895.42	0.151	0.00	0.23	0.18	2.69	(0.00)	0.024
08:45-09:00	B	208.56	1400.51	0.149	0.00	0.23	0.18	2.67	(0.00)	0.050
08:45-09:00	C	634.68	2266.17	0.280	0.00	0.53	0.39	5.93	(0.00)	0.037
09:00-09:15	A	365.89	2898.31	0.126	0.00	0.18	0.14	2.19	(0.00)	0.024
09:00-09:15	B	174.66	1432.06	0.122	0.00	0.18	0.14	2.12	(0.00)	0.048
09:00-09:15	C	531.51	2287.41	0.232	0.00	0.39	0.30	4.60	(0.00)	0.034

ARCADY 7

Version: 7.0.1.130 [12 March 2010]
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Report generation date: 10/04/2015 10:31:13

- » A1 - (Default Analysis Set) - D7 - 2014 PCU -AM Peak, AM
- » A1 - (Default Analysis Set) - D8 - 2014 PCU- PM Peak, PM

Summary of roundabout performance

	AM				PM			
	Queue (PCU)	Delay (min)	RFC	LOS	Queue (PCU)	Delay (min)	RFC	LOS
(Default Analysis Set) - 2014 PCU -AM Peak								
Arm A	1.73	0.11	0.64	A				
Arm B	1.58	0.09	0.61	A				
Arm C	0.11	0.11	0.10	A				
Arm D	1.34	0.08	0.57	A				
Arm E	0.48	0.06	0.32	A				
(Default Analysis Set) - 2014 PCU- PM Peak								
Arm A					0.64	0.07	0.39	A
Arm B					1.62	0.08	0.62	A
Arm C					0.04	0.10	0.04	A
Arm D					2.18	0.11	0.69	A
Arm E					1.11	0.10	0.53	A

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

2014 PCU -AM Peak - AM runs from 07:45:00 to 09:15:00
 2014 PCU- PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD -AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD - PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD + DEV180 -AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD + DEV180 - PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD + DEV300 -AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD + DEV300 - PM Peak - PM runs from 16:45:00 to 18:15:00

File summary

File Description

Title	Seelshield Way/A41 East/Gravenhill Road North/A41 West/B4100 London Road AM Peak
Location	Bicester
Date	13/07/2010
Status	TIA
Client	JJ Gallagher Ltd
Jobnumber	18578-01-1
Enumerator	Alexanders [CS5DG3J]
Results Upto Date	False

Analysis Options

[No text visible in this block]

PCU Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style
	Order	Ascending	Numerical	By Destination	Absolute Time

Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	PCU	PCU	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D7 - 2014 PCU -AM Peak, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2014 PCU - AM Peak, AM	2014 PCU -AM Peak	AM			Yes			07:45	09:15	90	15	Varies by Arm

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	(untitled)	A,B,C,D,E	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
A	Seelshield Way	
B	A41 East	
C	Gravenhill Road North	

D	A41 West	
E	B4100 London Road	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
A	0.00	99999.00		0.00
B	0.00	99999.00		0.00
C	0.00	99999.00		0.00
D	0.00	99999.00		0.00
E	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	7.00	7.00	0.00	20.00	70.00	31.00	
B	5.25	8.50	20.00	20.00	70.00	31.00	
C	3.50	7.00	5.00	20.00	70.00	20.00	
D	5.00	9.00	20.00	20.00	70.00	42.00	
E	7.00	7.00	0.00	20.00	70.00	39.00	

Pedestrian Crossings

Arm	Crossing Type
A	None
B	None
C	None
D	None
E	None

Arm Slope/ Intercept and Capacity

Arm Intercept Adjustments

Arm	Use Adjustment	Reason	Direct Intercept Adjustment (PCU/hr)
A	Yes	(ARCADY 6 CT10 Import)	0.00
B	Yes	(ARCADY 6 CT10 Import)	0.00
C	Yes	(ARCADY 6 CT10 Import)	0.00
D	Yes	(ARCADY 6 CT10 Import)	0.00
E	Yes	(ARCADY 6 CT10 Import)	0.00

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
A		((calculated))	((calculated))	0.570	2113.640
B		((calculated))	((calculated))	0.588	2230.844
C		((calculated))	((calculated))	0.472	1435.972
D		((calculated))	((calculated))	0.568	2160.167
E		((calculated))	((calculated))	0.554	2054.761

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry

			Yes	HV Percentages	2.00				Yes	Yes
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Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	856.00	100.000	N/A
B	ONE HOUR	Yes	970.00	100.000	N/A
C	ONE HOUR	Yes	54.00	100.000	N/A
D	ONE HOUR	Yes	927.00	100.000	N/A
E	ONE HOUR	Yes	410.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
07:45-08:00	A	644.44	644.44	N/A	N/A
07:45-08:00	B	730.27	730.27	N/A	N/A
07:45-08:00	C	40.65	40.65	N/A	N/A
07:45-08:00	D	697.89	697.89	N/A	N/A
07:45-08:00	E	308.67	308.67	N/A	N/A
08:00-08:15	A	769.53	769.53	N/A	N/A
08:00-08:15	B	872.01	872.01	N/A	N/A
08:00-08:15	C	48.54	48.54	N/A	N/A
08:00-08:15	D	833.35	833.35	N/A	N/A
08:00-08:15	E	368.58	368.58	N/A	N/A
08:15-08:30	A	942.47	942.47	N/A	N/A
08:15-08:30	B	1067.99	1067.99	N/A	N/A
08:15-08:30	C	59.46	59.46	N/A	N/A
08:15-08:30	D	1020.65	1020.65	N/A	N/A
08:15-08:30	E	451.42	451.42	N/A	N/A
08:30-08:45	A	942.47	942.47	N/A	N/A
08:30-08:45	B	1067.99	1067.99	N/A	N/A
08:30-08:45	C	59.46	59.46	N/A	N/A
08:30-08:45	D	1020.65	1020.65	N/A	N/A
08:30-08:45	E	451.42	451.42	N/A	N/A
08:45-09:00	A	769.53	769.53	N/A	N/A
08:45-09:00	B	872.01	872.01	N/A	N/A
08:45-09:00	C	48.54	48.54	N/A	N/A
08:45-09:00	D	833.35	833.35	N/A	N/A
08:45-09:00	E	368.58	368.58	N/A	N/A
09:00-09:15	A	644.44	644.44	N/A	N/A
09:00-09:15	B	730.27	730.27	N/A	N/A
09:00-09:15	C	40.65	40.65	N/A	N/A
09:00-09:15	D	697.89	697.89	N/A	N/A
09:00-09:15	E	308.67	308.67	N/A	N/A

Turning Proportions

Turning Counts or Proportions (PCU/hr) - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
From	A	0.00	317.00	24.00	351.00	164.00
	B	179.00	0.00	30.00	523.00	238.00
	C	3.00	18.00	0.00	25.00	8.00
	D	243.00	590.00	47.00	0.00	47.00
	E	57.00	181.00	8.00	164.00	0.00

Turning Proportions (PCU) - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
From	A	0.00	0.37	0.03	0.41	0.19
	B	0.18	0.00	0.03	0.54	0.25
	C	0.06	0.33	0.00	0.46	0.15
	D	0.26	0.64	0.05	0.00	0.05
	E	0.14	0.44	0.02	0.40	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
From	A	1.00	1.00	1.00	1.00	1.00
	B	1.00	1.00	1.00	1.00	1.00
	C	1.00	1.00	1.00	1.00	1.00
	D	1.00	1.00	1.00	1.00	1.00
	E	1.00	1.00	1.00	1.00	1.00

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
From	A	0.00	0.00	0.00	0.00	0.00
	B	0.00	0.00	0.00	0.00	0.00
	C	0.00	0.00	0.00	0.00	0.00
	D	0.00	0.00	0.00	0.00	0.00
	E	0.00	0.00	0.00	0.00	0.00

Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS	Total Demand (PCU/hr)	Total Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (min)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Queueing Total Delay (PCU-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
A	0.64	0.11	1.73	A	785.48	1178.22	96.98	0.08	1.08	96.99	0.08	0.570	2113.640
B	0.61	0.09	1.58	A	890.09	1335.13	92.32	0.07	1.03	92.33	0.07	0.588	2230.844
C	0.10	0.11	0.11	A	49.55	74.33	6.84	0.09	0.08	6.84	0.09	0.472	1435.972
D	0.57	0.08	1.34	A	850.63	1275.95	81.41	0.06	0.90	81.41	0.06	0.568	2160.167
E	0.32	0.06	0.48	A	376.22	564.33	30.89	0.05	0.34	30.89	0.05	0.554	2054.761

Main Results

Main results: (07:45-08:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	644.44	161.11	641.97	361.67	756.41	0.00	1682.65	951.06	0.383	0.00	0.62
B	730.27	182.57	727.78	829.79	568.59	0.00	1896.39	1584.08	0.385	0.00	0.62
C	40.65	10.16	40.46	81.78	1214.59	0.00	862.30	251.56	0.047	0.00	0.05
D	697.89	174.47	695.58	797.46	457.59	0.00	1900.25	1593.12	0.367	0.00	0.58
E	308.67	77.17	307.72	342.82	810.35	0.00	1605.89	1000.93	0.192	0.00	0.24

Main results: (08:00-08:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	769.53	192.38	768.31	432.80	905.21	0.00	1597.86	951.06	0.482	0.62	0.92
B	872.01	218.00	870.89	993.05	680.48	0.00	1830.57	1584.08	0.476	0.62	0.90
C	48.54	12.14	48.47	97.87	1453.50	0.00	749.45	251.56	0.065	0.05	0.07
D	833.35	208.34	832.40	954.35	547.62	0.00	1849.11	1593.12	0.451	0.58	0.81
E	368.58	92.15	368.25	410.27	969.76	0.00	1517.59	1000.93	0.243	0.24	0.32

Main results: (08:15-08:30)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	942.47	235.62	939.31	529.57	1107.83	0.00	1482.41	951.06	0.636	0.92	1.71
B	1067.99	267.00	1065.35	1214.92	832.22	0.00	1741.32	1584.08	0.613	0.90	1.56
C	59.46	14.86	59.29	119.72	1777.84	0.00	596.26	251.56	0.100	0.07	0.11
D	1020.65	255.16	1018.59	1167.34	669.79	0.00	1779.72	1593.12	0.573	0.81	1.33
E	451.42	112.85	450.80	501.78	1186.60	0.00	1397.48	1000.93	0.323	0.32	0.47

Main results: (08:30-08:45)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	942.47	235.62	942.40	530.67	1109.80	0.00	1481.29	951.06	0.636	1.71	1.73
B	1067.99	267.00	1067.93	1217.67	834.52	0.00	1739.96	1584.08	0.614	1.56	1.58
C	59.46	14.86	59.45	120.01	1782.45	0.00	594.09	251.56	0.100	0.11	0.11
D	1020.65	255.16	1020.61	1170.32	671.58	0.00	1778.70	1593.12	0.574	1.33	1.34
E	451.42	112.85	451.41	503.14	1189.06	0.00	1396.12	1000.93	0.323	0.47	0.48

Main results: (08:45-09:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	769.53	192.38	772.69	434.42	908.16	0.00	1596.18	951.06	0.482	1.73	0.94
B	872.01	218.00	874.64	997.07	683.78	0.00	1828.63	1584.08	0.477	1.58	0.92
C	48.54	12.14	48.71	98.27	1460.15	0.00	746.32	251.56	0.065	0.11	0.07
D	833.35	208.34	835.40	958.65	550.20	0.00	1847.65	1593.12	0.451	1.34	0.83
E	368.58	92.15	369.20	412.21	973.38	0.00	1515.58	1000.93	0.243	0.48	0.32

Main results: (09:00-09:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	644.44	161.11	645.70	363.39	759.86	0.00	1680.68	951.06	0.383	0.94	0.63
B	730.27	182.57	731.42	833.91	571.64	0.00	1894.59	1584.08	0.385	0.92	0.63
C	40.65	10.16	40.73	82.19	1220.87	0.00	859.33	251.56	0.047	0.07	0.05
D	697.89	174.47	698.87	801.59	460.02	0.00	1898.87	1593.12	0.368	0.83	0.58

E	308.67	77.17	309.00	344.64	814.25	0.00	1603.73	1000.93	0.192	0.32	0.24
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Queueing Delay Results

Queueing Delay results: (07:45-08:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	9.03	0.60	0.058	A	A
B	9.13	0.61	0.051	A	A
C	0.72	0.05	0.073	A	A
D	8.47	0.56	0.050	A	A
E	3.49	0.23	0.046	A	A

Queueing Delay results: (08:00-08:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	13.47	0.90	0.072	A	A
B	13.25	0.88	0.062	A	A
C	1.01	0.07	0.086	A	A
D	11.98	0.80	0.059	A	A
E	4.72	0.31	0.052	A	A

Queueing Delay results: (08:15-08:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	24.52	1.63	0.110	A	A
B	22.58	1.51	0.088	A	A
C	1.61	0.11	0.112	A	A
D	19.31	1.29	0.079	A	A
E	6.98	0.47	0.063	A	A

Queueing Delay results: (08:30-08:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	25.85	1.72	0.111	A	A
B	23.57	1.57	0.089	A	A
C	1.66	0.11	0.112	A	A
D	20.01	1.33	0.079	A	A
E	7.13	0.48	0.063	A	A

Queueing Delay results: (08:45-09:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	14.53	0.97	0.073	A	A
B	14.15	0.94	0.063	A	A
C	1.07	0.07	0.086	A	A
D	12.71	0.85	0.059	A	A
E	4.92	0.33	0.052	A	A

Queueing Delay results: (09:00-09:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	9.58	0.64	0.058	A	A
B	9.64	0.64	0.052	A	A
C	0.76	0.05	0.073	A	A
D	8.92	0.59	0.050	A	A

E	3.64	0.24	0.046	A	A
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Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.00	7.00	0.00	20.00	70.00	31.00		0.570	2113.640
B	5.25	8.50	20.00	20.00	70.00	31.00		0.588	2230.844
C	3.50	7.00	5.00	20.00	70.00	20.00		0.472	1435.972
D	5.00	9.00	20.00	20.00	70.00	42.00		0.568	2160.167
E	7.00	7.00	0.00	20.00	70.00	39.00		0.554	2054.761

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (PCU)	End Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Average Delay Per Arriving Vehicle (min)
07:45-08:00	A	644.44	1682.65	0.383	0.00	0.00	0.62	9.03	(0.00)	0.058
07:45-08:00	B	730.27	1896.39	0.385	0.00	0.00	0.62	9.13	(0.00)	0.051
07:45-08:00	C	40.65	862.30	0.047	0.00	0.00	0.05	0.72	(0.00)	0.073
07:45-08:00	D	697.89	1900.25	0.367	0.00	0.00	0.58	8.47	(0.00)	0.050
07:45-08:00	E	308.67	1605.89	0.192	0.00	0.00	0.24	3.49	(0.00)	0.046
08:00-08:15	A	769.53	1597.86	0.482	0.00	0.62	0.92	13.47	(0.00)	0.072
08:00-08:15	B	872.01	1830.57	0.476	0.00	0.62	0.90	13.25	(0.00)	0.062
08:00-08:15	C	48.54	749.45	0.065	0.00	0.05	0.07	1.01	(0.00)	0.086
08:00-08:15	D	833.35	1849.11	0.451	0.00	0.58	0.81	11.98	(0.00)	0.059
08:00-08:15	E	368.58	1517.59	0.243	0.00	0.24	0.32	4.72	(0.00)	0.052
08:15-08:30	A	942.47	1482.41	0.636	0.00	0.92	1.71	24.52	(0.00)	0.110
08:15-08:30	B	1067.99	1741.32	0.613	0.00	0.90	1.56	22.58	(0.00)	0.088
08:15-08:30	C	59.46	596.26	0.100	0.00	0.07	0.11	1.61	(0.00)	0.112
08:15-08:30	D	1020.65	1779.72	0.573	0.00	0.81	1.33	19.31	(0.00)	0.079
08:15-08:30	E	451.42	1397.48	0.323	0.00	0.32	0.47	6.98	(0.00)	0.063
08:30-08:45	A	942.47	1481.29	0.636	0.00	1.71	1.73	25.85	(0.00)	0.111
08:30-08:45	B	1067.99	1739.96	0.614	0.00	1.56	1.58	23.57	(0.00)	0.089
08:30-08:45	C	59.46	594.09	0.100	0.00	0.11	0.11	1.66	(0.00)	0.112
08:30-08:45	D	1020.65	1778.70	0.574	0.00	1.33	1.34	20.01	(0.00)	0.079
08:30-08:45	E	451.42	1396.12	0.323	0.00	0.47	0.48	7.13	(0.00)	0.063
08:45-09:00	A	769.53	1596.18	0.482	0.00	1.73	0.94	14.53	(0.00)	0.073
08:45-09:00	B	872.01	1828.63	0.477	0.00	1.58	0.92	14.15	(0.00)	0.063
08:45-09:00	C	48.54	746.32	0.065	0.00	0.11	0.07	1.07	(0.00)	0.086
08:45-09:00	D	833.35	1847.65	0.451	0.00	1.34	0.83	12.71	(0.00)	0.059
08:45-09:00	E	368.58	1515.58	0.243	0.00	0.48	0.32	4.92	(0.00)	0.052
09:00-09:15	A	644.44	1680.68	0.383	0.00	0.94	0.63	9.58	(0.00)	0.058
09:00-09:15	B	730.27	1894.59	0.385	0.00	0.92	0.63	9.64	(0.00)	0.052
09:00-09:15	C	40.65	859.33	0.047	0.00	0.07	0.05	0.76	(0.00)	0.073
09:00-09:15	D	697.89	1898.87	0.368	0.00	0.83	0.58	8.92	(0.00)	0.050
09:00-09:15	E	308.67	1603.73	0.192	0.00	0.32	0.24	3.64	(0.00)	0.046

A1 - (Default Analysis Set) - D8 - 2014 PCU- PM Peak.

PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2014 PCU- PM Peak, PM	2014 PCU- PM Peak	PM			Yes			16:45	18:15	90	15	Varies by Arm

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	(untitled)	A,B,C,D,E	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
A	Seelshield Way	
B	A41 East	
C	Gravenhill Road North	
D	A41 West	
E	B4100 London Road	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
A	0.00	99999.00		0.00
B	0.00	99999.00		0.00
C	0.00	99999.00		0.00
D	0.00	99999.00		0.00
E	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
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A	7.00	7.00	0.00	20.00	70.00	31.00	
B	5.25	8.50	20.00	20.00	70.00	31.00	
C	3.50	7.00	5.00	20.00	70.00	20.00	
D	5.00	9.00	20.00	20.00	70.00	42.00	
E	7.00	7.00	0.00	20.00	70.00	39.00	

Pedestrian Crossings

Arm	Crossing Type
A	None
B	None
C	None
D	None
E	None

Arm Slope/ Intercept and Capacity

Arm Intercept Adjustments

Arm	Use Adjustment	Reason	Direct Intercept Adjustment (PCU/hr)
A	Yes	(ARCADY 6 CT10 Import)	0.00
B	Yes	(ARCADY 6 CT10 Import)	0.00
C	Yes	(ARCADY 6 CT10 Import)	0.00
D	Yes	(ARCADY 6 CT10 Import)	0.00
E	Yes	(ARCADY 6 CT10 Import)	0.00

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
A		((calculated))	((calculated))	0.570	2113.640
B		((calculated))	((calculated))	0.588	2230.844
C		((calculated))	((calculated))	0.472	1435.972
D		((calculated))	((calculated))	0.568	2160.167
E		((calculated))	((calculated))	0.554	2054.761

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
			Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	521.00	100.000	N/A
B	ONE HOUR	Yes	1058.00	100.000	N/A
C	ONE HOUR	Yes	21.00	100.000	N/A
D	ONE HOUR	Yes	1082.00	100.000	N/A
E	ONE HOUR	Yes	611.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
16:45-17:00	A	392.24	392.24	N/A	N/A
16:45-17:00	B	796.52	796.52	N/A	N/A
16:45-17:00	C	15.81	15.81	N/A	N/A
16:45-17:00	D	814.59	814.59	N/A	N/A
16:45-17:00	E	459.99	459.99	N/A	N/A
17:00-17:15	A	468.37	468.37	N/A	N/A
17:00-17:15	B	951.12	951.12	N/A	N/A
17:00-17:15	C	18.88	18.88	N/A	N/A
17:00-17:15	D	972.70	972.70	N/A	N/A
17:00-17:15	E	549.28	549.28	N/A	N/A
17:15-17:30	A	573.63	573.63	N/A	N/A
17:15-17:30	B	1164.88	1164.88	N/A	N/A
17:15-17:30	C	23.12	23.12	N/A	N/A
17:15-17:30	D	1191.30	1191.30	N/A	N/A
17:15-17:30	E	672.72	672.72	N/A	N/A
17:30-17:45	A	573.63	573.63	N/A	N/A
17:30-17:45	B	1164.88	1164.88	N/A	N/A
17:30-17:45	C	23.12	23.12	N/A	N/A
17:30-17:45	D	1191.30	1191.30	N/A	N/A
17:30-17:45	E	672.72	672.72	N/A	N/A
17:45-18:00	A	468.37	468.37	N/A	N/A
17:45-18:00	B	951.12	951.12	N/A	N/A
17:45-18:00	C	18.88	18.88	N/A	N/A
17:45-18:00	D	972.70	972.70	N/A	N/A
17:45-18:00	E	549.28	549.28	N/A	N/A
18:00-18:15	A	392.24	392.24	N/A	N/A
18:00-18:15	B	796.52	796.52	N/A	N/A
18:00-18:15	C	15.81	15.81	N/A	N/A
18:00-18:15	D	814.59	814.59	N/A	N/A
18:00-18:15	E	459.99	459.99	N/A	N/A

Turning Proportions

Turning Counts or Proportions (PCU/hr) - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
From	A	0.00	175.00	7.00	224.00	115.00
	B	313.00	0.00	16.00	484.00	245.00
	C	7.00	5.00	0.00	8.00	1.00
	D	408.00	525.00	24.00	0.00	125.00
	E	128.00	310.00	7.00	166.00	0.00

Turning Proportions (PCU) - Roundabout 1 (for whole period)

		To				
		A	B	C	D	E
A	0.00	0.34	0.01	0.43	0.22	

From	B	0.30	0.00	0.02	0.46	0.23
	C	0.33	0.24	0.00	0.38	0.05
	D	0.38	0.49	0.02	0.00	0.12
	E	0.21	0.51	0.01	0.27	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

From	To					
		A	B	C	D	E
	A	1.00	1.00	1.00	1.00	1.00
	B	1.00	1.00	1.00	1.00	1.00
	C	1.00	1.00	1.00	1.00	1.00
	D	1.00	1.00	1.00	1.00	1.00
E	1.00	1.00	1.00	1.00	1.00	

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

From	To					
		A	B	C	D	E
	A	0.00	0.00	0.00	0.00	0.00
	B	0.00	0.00	0.00	0.00	0.00
	C	0.00	0.00	0.00	0.00	0.00
	D	0.00	0.00	0.00	0.00	0.00
E	0.00	0.00	0.00	0.00	0.00	

Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS	Total Demand (PCU/hr)	Total Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (min)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Queueing Total Delay (PCU-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
A	0.39	0.07	0.64	A	478.08	717.12	40.83	0.06	0.45	40.83	0.06	0.570	2113.640
B	0.62	0.08	1.62	A	970.84	1456.26	96.26	0.07	1.07	96.26	0.07	0.588	2230.844
C	0.04	0.10	0.04	A	19.27	28.90	2.41	0.08	0.03	2.41	0.08	0.472	1435.972
D	0.69	0.11	2.18	A	992.86	1489.29	121.45	0.08	1.35	121.46	0.08	0.568	2160.167
E	0.53	0.10	1.11	A	560.66	841.00	64.63	0.08	0.72	64.63	0.08	0.554	2054.761

Main Results

Main results: (16:45-17:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	392.24	98.06	391.01	642.11	777.77	0.00	1670.47	1205.23	0.235	0.00	0.31
B	796.52	199.13	793.87	761.35	407.43	0.00	1991.18	1572.00	0.400	0.00	0.66
C	15.81	3.95	15.74	40.51	1160.79	0.00	887.71	204.18	0.018	0.00	0.02
D	814.59	203.65	811.51	661.78	514.74	0.00	1867.79	1466.33	0.436	0.00	0.77
E	459.99	115.00	458.27	364.64	961.61	0.00	1522.10	1014.13	0.302	0.00	0.43

Main results: (17:00-17:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	468.27	117.09	467.92	768.44	920.84	0.00	1683.26	1205.23	0.235	0.31	0.42

A	468.37	117.09	467.52	772.23	935.79	0.00	1580.44	1205.23	0.296	0.31	0.42
B	951.12	237.78	949.97	911.17	487.59	0.00	1944.03	1572.00	0.489	0.66	0.95
C	18.88	4.72	18.85	48.48	1389.08	0.00	779.88	204.18	0.024	0.02	0.02
D	972.70	243.17	971.17	791.96	615.98	0.00	1810.29	1466.33	0.537	0.77	1.15
E	549.28	137.32	548.49	436.36	1150.79	0.00	1417.32	1014.13	0.388	0.43	0.63

Main results: (17:15-17:30)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	573.63	143.41	572.75	939.77	1138.21	0.00	1465.10	1205.23	0.392	0.42	0.64
B	1164.88	291.22	1162.26	1114.32	596.64	0.00	1879.89	1572.00	0.620	0.95	1.61
C	23.12	5.78	23.07	59.29	1699.61	0.00	633.21	204.18	0.037	0.02	0.04
D	1191.30	297.83	1187.29	968.99	753.69	0.00	1732.06	1466.33	0.688	1.15	2.15
E	672.72	168.18	670.83	533.83	1407.15	0.00	1275.31	1014.13	0.528	0.63	1.10

Main results: (17:30-17:45)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	573.63	143.41	573.62	942.41	1141.67	0.00	1463.13	1205.23	0.392	0.64	0.64
B	1164.88	291.22	1164.83	1117.46	597.83	0.00	1879.19	1572.00	0.620	1.61	1.62
C	23.12	5.78	23.12	59.45	1703.21	0.00	631.51	204.18	0.037	0.04	0.04
D	1191.30	297.83	1191.20	971.06	755.27	0.00	1731.17	1466.33	0.688	2.15	2.18
E	672.72	168.18	672.68	535.07	1411.40	0.00	1272.96	1014.13	0.528	1.10	1.11

Main results: (17:45-18:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	468.37	117.09	469.24	772.23	935.79	0.00	1580.44	1205.23	0.296	0.64	0.42
B	951.12	237.78	953.73	915.68	489.35	0.00	1943.00	1572.00	0.490	1.62	0.97
C	18.88	4.72	18.93	48.71	1394.37	0.00	777.38	204.18	0.024	0.04	0.03
D	972.70	243.17	976.72	795.00	618.30	0.00	1808.97	1466.33	0.538	2.18	1.17
E	549.28	137.32	551.16	438.17	1156.85	0.00	1413.96	1014.13	0.388	1.11	0.64

Main results: (18:00-18:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	392.24	98.06	392.69	645.57	782.16	0.00	1667.97	1205.23	0.235	0.42	0.31
B	796.52	199.13	797.70	765.49	409.37	0.00	1990.05	1572.00	0.400	0.97	0.67
C	15.81	3.95	15.84	40.72	1166.35	0.00	885.08	204.18	0.018	0.03	0.02
D	814.59	203.65	816.17	664.98	517.20	0.00	1866.39	1466.33	0.436	1.17	0.78
E	459.99	115.00	460.81	366.45	966.92	0.00	1519.16	1014.13	0.303	0.64	0.44

Queueing Delay Results

Queueing Delay results: (16:45-17:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.50	0.30	0.047	A	A
B	9.72	0.65	0.050	A	A
C	0.27	0.02	0.069	A	A
D	11.23	0.75	0.057	A	A
E	6.32	0.42	0.056	A	A

Queueing Delay results: (17:00-17:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	6.17	0.41	0.054	A	A
B	13.95	0.93	0.060	A	A
C	0.36	0.02	0.079	A	A
D	16.79	1.12	0.071	A	A
E	9.22	0.61	0.069	A	A

Queueing Delay results: (17:15-17:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	9.38	0.63	0.067	A	A
B	23.24	1.55	0.083	A	A
C	0.55	0.04	0.098	A	A
D	30.71	2.05	0.109	A	A
E	15.94	1.06	0.099	A	A

Queueing Delay results: (17:30-17:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	9.61	0.64	0.067	A	A
B	24.21	1.61	0.084	A	A
C	0.57	0.04	0.099	A	A
D	32.55	2.17	0.111	A	A
E	16.62	1.11	0.100	A	A

Queueing Delay results: (17:45-18:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	6.47	0.43	0.054	A	A
B	14.88	0.99	0.061	A	A
C	0.38	0.03	0.079	A	A
D	18.21	1.21	0.072	A	A
E	9.85	0.66	0.070	A	A

Queueing Delay results: (18:00-18:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.70	0.31	0.047	A	A
B	10.25	0.68	0.050	A	A
C	0.28	0.02	0.069	A	A
D	11.95	0.80	0.057	A	A
E	6.67	0.44	0.057	A	A

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	7.00	7.00	0.00	20.00	70.00	31.00		0.570	2113.640
B	5.25	8.50	20.00	20.00	70.00	31.00		0.588	2230.844
C	3.50	7.00	5.00	20.00	70.00	20.00		0.472	1435.972
D	5.00	9.00	20.00	20.00	70.00	42.00		0.568	2160.167
E	7.00	7.00	0.00	20.00	70.00	39.00		0.554	2054.761

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (PCU)	End Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Average Delay Per Arriving Vehicle (min)
16:45-17:00	A	392.24	1670.47	0.235	0.00	0.00	0.31	4.50	(0.00)	0.047
16:45-17:00	B	796.52	1991.18	0.400	0.00	0.00	0.66	9.72	(0.00)	0.050
16:45-17:00	C	15.81	887.71	0.018	0.00	0.00	0.02	0.27	(0.00)	0.069
16:45-17:00	D	814.59	1867.79	0.436	0.00	0.00	0.77	11.23	(0.00)	0.057
16:45-17:00	E	459.99	1522.10	0.302	0.00	0.00	0.43	6.32	(0.00)	0.056
17:00-17:15	A	468.37	1583.26	0.296	0.00	0.31	0.42	6.17	(0.00)	0.054
17:00-17:15	B	951.12	1944.03	0.489	0.00	0.66	0.95	13.95	(0.00)	0.060
17:00-17:15	C	18.88	779.88	0.024	0.00	0.02	0.02	0.36	(0.00)	0.079
17:00-17:15	D	972.70	1810.29	0.537	0.00	0.77	1.15	16.79	(0.00)	0.071
17:00-17:15	E	549.28	1417.32	0.388	0.00	0.43	0.63	9.22	(0.00)	0.069
17:15-17:30	A	573.63	1465.10	0.392	0.00	0.42	0.64	9.38	(0.00)	0.067
17:15-17:30	B	1164.88	1879.89	0.620	0.00	0.95	1.61	23.24	(0.00)	0.083
17:15-17:30	C	23.12	633.21	0.037	0.00	0.02	0.04	0.55	(0.00)	0.098
17:15-17:30	D	1191.30	1732.06	0.688	0.00	1.15	2.15	30.71	(0.00)	0.109
17:15-17:30	E	672.72	1275.31	0.528	0.00	0.63	1.10	15.94	(0.00)	0.099
17:30-17:45	A	573.63	1463.13	0.392	0.00	0.64	0.64	9.61	(0.00)	0.067
17:30-17:45	B	1164.88	1879.19	0.620	0.00	1.61	1.62	24.21	(0.00)	0.084
17:30-17:45	C	23.12	631.51	0.037	0.00	0.04	0.04	0.57	(0.00)	0.099
17:30-17:45	D	1191.30	1731.17	0.688	0.00	2.15	2.18	32.55	(0.00)	0.111
17:30-17:45	E	672.72	1272.96	0.528	0.00	1.10	1.11	16.62	(0.00)	0.100
17:45-18:00	A	468.37	1580.44	0.296	0.00	0.64	0.42	6.47	(0.00)	0.054
17:45-18:00	B	951.12	1943.00	0.490	0.00	1.62	0.97	14.88	(0.00)	0.061
17:45-18:00	C	18.88	777.38	0.024	0.00	0.04	0.03	0.38	(0.00)	0.079
17:45-18:00	D	972.70	1808.97	0.538	0.00	2.18	1.17	18.21	(0.00)	0.072
17:45-18:00	E	549.28	1413.96	0.388	0.00	1.11	0.64	9.85	(0.00)	0.070
18:00-18:15	A	392.24	1667.97	0.235	0.00	0.42	0.31	4.70	(0.00)	0.047
18:00-18:15	B	796.52	1990.05	0.400	0.00	0.97	0.67	10.25	(0.00)	0.050
18:00-18:15	C	15.81	885.08	0.018	0.00	0.03	0.02	0.28	(0.00)	0.069
18:00-18:15	D	814.59	1866.39	0.436	0.00	1.17	0.78	11.95	(0.00)	0.057
18:00-18:15	E	459.99	1519.16	0.303	0.00	0.64	0.44	6.67	(0.00)	0.057

ARCADY 7

Version: 7.0.1.130 [12 March 2010]

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File: Q:\14-033 - Gavray Drive, Bicester\Trans\Arcady\Revision A\2014 Wretchwick - Gavray Drive - Charbridge AM Peak REV.arc7
Report generation date: 10/04/2015 10:52:18

- » A1 - (Default Analysis Set) - D7 - 2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak, AM
- » A1 - (Default Analysis Set) - D8 - 2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak, PM

Summary of roundabout performance

	AM				PM			
	Queue (PCU)	Delay (min)	RFC	LOS	Queue (PCU)	Delay (min)	RFC	LOS
(Default Analysis Set) - 2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak								
Arm A	0.33	0.04	0.25	A				
Arm B	0.08	0.05	0.07	A				
Arm C	0.59	0.05	0.37	A				
(Default Analysis Set) - 2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak								
Arm A					0.56	0.05	0.36	A
Arm B					0.05	0.06	0.05	A
Arm C					0.42	0.04	0.30	A

Values shown are the maximum values over all time segments. Delay is the maximum value of average delay per arriving vehicle.

2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak - AM runs from 07:45:00 to 09:15:00
 2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD - Wretchwick - Gavray Drive - Charbridge AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD - Wretchwick - Gavray Drive - Charbridge PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD + DEV180 - Wretchwick - Gavray Drive - Charbridge AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD + DEV180 - Wretchwick - Gavray Drive - Charbridge PM Peak - PM runs from 16:45:00 to 18:15:00
 2020 PCU + CD + DEV300 - Wretchwick - Gavray Drive - Charbridge AM Peak - AM runs from 07:45:00 to 09:15:00
 2020 PCU + CD + DEV300 - Wretchwick - Gavray Drive - Charbridge PM Peak - PM runs from 16:45:00 to 18:15:00

File summary

File Description

Title	Wretchwick - Gavray Drive - Charbridge AM Peak
Location	Bicester
Date	13/07/2010
Client	JJ Gallagher
Jobnumber	18578-01-1
Enumerator	Alexanders [CS5DG3J]
Results Upto Date	False

Analysis Options

RFC Threshold	Vehicle Length (m)	Do Queue Variations
0.85	5.75	

Sorting and Display

Show Arm Names	Arm Grouping	Sorting Direction	Sorting Type	Data Matrix Style	Time Style

	Order	Ascending	Numerical	By Destination	Absolute Time
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Units

Distance Units	Speed Units	Traffic Units Input	Traffic Units Results	Flow Units	Average Delay Units	Total Delay Units	Rate Of Delay Units
m	kph	PCU	PCU	perHour	min	-Min	perMin

A1 - (Default Analysis Set) - D7 - 2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak, AM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak, AM	2014 PCU - Wretchwick - Gavray Drive - Charbridge AM Peak	AM			Yes			07:45	09:15	90	15	Varies by Arm

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	(untitled)	A,B,C	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
A	Wretchwick	
B	Gavray Drive	
C	Charbridge	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
A	0.00	99999.00		0.00
B	0.00	99999.00		0.00

C	0.00	99999.00		0.00
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Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	6.00	8.00	15.00	20.00	45.00	49.00	
B	3.50	7.00	10.00	20.00	45.00	44.00	
C	5.75	7.00	10.00	35.00	45.00	34.00	

Pedestrian Crossings

Arm	Crossing Type
A	None
B	None
C	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
A		((calculated))	((calculated))	0.685	2094.901
B		((calculated))	((calculated))	0.571	1484.915
C		((calculated))	((calculated))	0.694	2027.030

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
			Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	476.00	100.000	N/A
B	ONE HOUR	Yes	78.00	100.000	N/A
C	ONE HOUR	Yes	676.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
07:45-08:00	A	358.36	358.36	N/A	N/A
07:45-08:00	B	58.72	58.72	N/A	N/A
07:45-08:00	C	508.93	508.93	N/A	N/A
08:00-08:15	A	427.91	427.91	N/A	N/A
08:00-08:15	B	70.12	70.12	N/A	N/A
08:00-08:15	C	627.74	627.74	N/A	N/A

08:00-08:15	C	607.71	607.71	N/A	N/A
08:15-08:30	A	524.09	524.09	N/A	N/A
08:15-08:30	B	85.88	85.88	N/A	N/A
08:15-08:30	C	744.29	744.29	N/A	N/A
08:30-08:45	A	524.09	524.09	N/A	N/A
08:30-08:45	B	85.88	85.88	N/A	N/A
08:30-08:45	C	744.29	744.29	N/A	N/A
08:45-09:00	A	427.91	427.91	N/A	N/A
08:45-09:00	B	70.12	70.12	N/A	N/A
08:45-09:00	C	607.71	607.71	N/A	N/A
09:00-09:15	A	358.36	358.36	N/A	N/A
09:00-09:15	B	58.72	58.72	N/A	N/A
09:00-09:15	C	508.93	508.93	N/A	N/A

Turning Proportions

Turning Counts or Proportions (PCU/hr) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	38.00	438.00
	B	35.00	0.00	43.00
	C	667.00	9.00	0.00

Turning Proportions (PCU) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.08	0.92
	B	0.45	0.00	0.55
	C	0.99	0.01	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	1.00	1.00	1.00
	B	1.00	1.00	1.00
	C	1.00	1.00	1.00

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.00	0.00
	B	0.00	0.00	0.00
	C	0.00	0.00	0.00

Results

Results Summary

Arm	Max	Max Delay	Max Queue	Max	Total Demand	Total Arrivals	Total Queuing	Average Queuing	Rate Of Queuing	Inclusive Queuing Total	Inclusive Queuing	stop	Intercept
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Arm	RFC	Delay (min)	Queue (PCU)	LOS	Demand (PCU/hr)	Arrivals (PCU)	Delay (PCU-min)	Queueing Delay (min)	Delay (PCU-min/min)	Delay (PCU-min)	Average Delay (min)	slope	(PCU/hr)
A	0.25	0.04	0.33	A	436.79	655.18	23.90	0.04	0.27	23.90	0.04	0.685	2094.901
B	0.07	0.05	0.08	A	71.57	107.36	5.46	0.05	0.06	5.46	0.05	0.571	1484.915
C	0.37	0.05	0.59	A	620.31	930.46	40.78	0.04	0.45	40.79	0.04	0.694	2027.030

Main Results

Main results: (07:45-08:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	358.36	89.59	357.53	527.08	6.76	0.00	2090.27	2077.52	0.171	0.00	0.21
B	58.72	14.68	58.53	35.30	328.99	0.00	1296.92	392.51	0.045	0.00	0.05
C	508.93	127.23	507.58	361.26	26.27	0.00	2008.81	1904.84	0.253	0.00	0.34

Main results: (08:00-08:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	427.91	106.98	427.71	630.69	8.09	0.00	2089.36	2077.52	0.205	0.21	0.26
B	70.12	17.53	70.07	42.23	393.57	0.00	1260.02	392.51	0.056	0.05	0.06
C	607.71	151.93	607.33	432.20	31.44	0.00	2005.22	1904.84	0.303	0.34	0.43

Main results: (08:15-08:30)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	524.09	131.02	523.78	772.27	9.90	0.00	2088.11	2077.52	0.251	0.26	0.33
B	85.88	21.47	85.81	51.71	481.96	0.00	1209.50	392.51	0.071	0.06	0.08
C	744.29	186.07	743.66	529.27	38.50	0.00	2000.32	1904.84	0.372	0.43	0.59

Main results: (08:30-08:45)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	524.09	131.02	524.08	772.91	9.91	0.00	2088.11	2077.52	0.251	0.33	0.33
B	85.88	21.47	85.88	51.75	482.24	0.00	1209.34	392.51	0.071	0.08	0.08
C	744.29	186.07	744.28	529.59	38.54	0.00	2000.30	1904.84	0.372	0.59	0.59

Main results: (08:45-09:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	427.91	106.98	428.22	631.72	8.10	0.00	2089.35	2077.52	0.205	0.33	0.26
B	70.12	17.53	70.19	42.28	394.03	0.00	1259.75	392.51	0.056	0.08	0.06
C	607.71	151.93	608.33	432.73	31.50	0.00	2005.18	1904.84	0.303	0.59	0.44

Main results: (09:00-09:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	358.36	89.59	358.56	528.90	6.78	0.00	2090.25	2077.52	0.171	0.26	0.21
B	58.72	14.68	58.77	35.41	329.94	0.00	1296.38	392.51	0.045	0.06	0.05
C	508.93	127.23	509.31	362.33	26.37	0.00	2008.74	1904.84	0.253	0.44	0.34

Queueing Delay Results

Queueing Delay results: (07:45-08:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.05	0.20	0.035	A	A
B	0.70	0.05	0.048	A	A
C	4.99	0.33	0.040	A	A

Queueing Delay results: (08:00-08:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.81	0.25	0.036	A	A
B	0.87	0.06	0.050	A	A
C	6.42	0.43	0.043	A	A

Queueing Delay results: (08:15-08:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.95	0.33	0.038	A	A
B	1.13	0.08	0.053	A	A
C	8.71	0.58	0.048	A	A

Queueing Delay results: (08:30-08:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	5.01	0.33	0.038	A	A
B	1.14	0.08	0.053	A	A
C	8.86	0.59	0.048	A	A

Queueing Delay results: (08:45-09:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.92	0.26	0.036	A	A
B	0.90	0.06	0.050	A	A
C	6.64	0.44	0.043	A	A

Queueing Delay results: (09:00-09:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	3.14	0.21	0.035	A	A
B	0.72	0.05	0.049	A	A
C	5.17	0.34	0.040	A	A

Overview: Standard Roundabout Geometry

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	6.00	8.00	15.00	20.00	45.00	49.00		0.685	2094.901
B	3.50	7.00	10.00	20.00	45.00	44.00		0.571	1484.915
C	5.75	7.00	10.00	35.00	45.00	34.00		0.694	2027.030

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (PCU)	End Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Average Delay Per Arriving Vehicle (min)
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						(PCU)	(PCU)			(min)
07:45-08:00	A	358.36	2090.27	0.171	0.00	0.00	0.21	3.05	(0.00)	0.035
07:45-08:00	B	58.72	1296.92	0.045	0.00	0.00	0.05	0.70	(0.00)	0.048
07:45-08:00	C	508.93	2008.81	0.253	0.00	0.00	0.34	4.99	(0.00)	0.040
08:00-08:15	A	427.91	2089.36	0.205	0.00	0.21	0.26	3.81	(0.00)	0.036
08:00-08:15	B	70.12	1260.02	0.056	0.00	0.05	0.06	0.87	(0.00)	0.050
08:00-08:15	C	607.71	2005.22	0.303	0.00	0.34	0.43	6.42	(0.00)	0.043
08:15-08:30	A	524.09	2088.11	0.251	0.00	0.26	0.33	4.95	(0.00)	0.038
08:15-08:30	B	85.88	1209.50	0.071	0.00	0.06	0.08	1.13	(0.00)	0.053
08:15-08:30	C	744.29	2000.32	0.372	0.00	0.43	0.59	8.71	(0.00)	0.048
08:30-08:45	A	524.09	2088.11	0.251	0.00	0.33	0.33	5.01	(0.00)	0.038
08:30-08:45	B	85.88	1209.34	0.071	0.00	0.08	0.08	1.14	(0.00)	0.053
08:30-08:45	C	744.29	2000.30	0.372	0.00	0.59	0.59	8.86	(0.00)	0.048
08:45-09:00	A	427.91	2089.35	0.205	0.00	0.33	0.26	3.92	(0.00)	0.036
08:45-09:00	B	70.12	1259.75	0.056	0.00	0.08	0.06	0.90	(0.00)	0.050
08:45-09:00	C	607.71	2005.18	0.303	0.00	0.59	0.44	6.64	(0.00)	0.043
09:00-09:15	A	358.36	2090.25	0.171	0.00	0.26	0.21	3.14	(0.00)	0.035
09:00-09:15	B	58.72	1296.38	0.045	0.00	0.06	0.05	0.72	(0.00)	0.049
09:00-09:15	C	508.93	2008.74	0.253	0.00	0.44	0.34	5.17	(0.00)	0.040

A1 - (Default Analysis Set) - D8 - 2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak, PM

Data Errors and Warnings

No errors or warnings

Analysis Set Details

Name	Description	Include In Report	Use Specific Demand Set	Demand Set	Locked	Network Flow Scaling Factor (%)	Network Capacity Scaling Factor (%)	Reason For Scaling Factors
(Default Analysis Set)		Yes		(D1)		100.000	100.000	

Demand Set Details

Name	Scenario Name	Time Period Name	Description	Locked	Run Automatically	Use Relationship	Relationship	Start Time (HH:mm)	Finish Time (HH:mm)	Time Period Length (min)	Time Segment Length (min)	Traffic Profile Type
2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak, PM	2014 PCU - Wretchwick - Gavray Drive - Charbridge PM Peak	PM			Yes			16:45	18:15	90	15	Varies by Arm

Roundabout Network

Roundabout Type(s)

ID	Name	Arm Order	Roundabout Type	Grade Separated	Large Roundabout	Do Geometric Delay
1	(untitled)	A,B,C	Standard			

Roundabout Network Options

Driving Side	Lighting	Road Surface	In London
Left	Normal/unknown	((Mini-roundabouts only))	

Arms

Arms

ID	Name	Description
A	Wretchwick	
B	Gavray Drive	
C	Charbridge	

Capacity Options

Arm	Minimum Capacity (PCU/hr)	Maximum Capacity (PCU/hr)	Assume Flat Start Profile	Initial Queue (PCU)
A	0.00	99999.00		0.00
B	0.00	99999.00		0.00
C	0.00	99999.00		0.00

Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only
A	6.00	8.00	15.00	20.00	45.00	49.00	
B	3.50	7.00	10.00	20.00	45.00	44.00	
C	5.75	7.00	10.00	35.00	45.00	34.00	

Pedestrian Crossings

Arm	Crossing Type
A	None
B	None
C	None

Arm Slope/ Intercept and Capacity

Slope and Intercept used in model

Arm	Enter Directly	Slope	Intercept (PCU/hr)	Final Slope	Final Intercept (PCU/hr)
A		((calculated))	((calculated))	0.685	2094.901
B		((calculated))	((calculated))	0.571	1484.915
C		((calculated))	((calculated))	0.694	2027.030

The slope and intercept shown above include any corrections and adjustments.

Traffic Flows

Demand Set Data Options

Default Vehicle Mix	Vehicle Mix Varies Over Time	Vehicle Mix Varies Over Turn	Vehicle Mix Varies Over Entry	Vehicle Mix Source	PCU Factor for a HV (PCU)	Default Turning Proportions	Estimate from entry/exit counts	Turning Proportions Vary Over Time	Turning Proportions Vary Over Turn	Turning Proportions Vary Over Entry
			Yes	HV Percentages	2.00				Yes	Yes

Entry Flows

General Flows Data

Arm	Profile Type	Use Turning Counts	Average Demand Flow (PCU/hr)	Flow Scaling Factor (%)	PHF
A	ONE HOUR	Yes	671.00	100.000	N/A

B	ONE HOUR	Yes	46.00	100.000	N/A
C	ONE HOUR	Yes	541.00	100.000	N/A

Direct/Resultant Flows

Direct Flows Data

Time Segment	Arm	Direct Demand Entry Flow (PCU/hr)	DirectDemandEntryFlowInPCU (PCU/hr)	Direct Demand Exit Flow (PCU/hr)	Direct Demand Pedestrian Flow (Ped/hr)
16:45-17:00	A	505.16	505.16	N/A	N/A
16:45-17:00	B	34.63	34.63	N/A	N/A
16:45-17:00	C	407.29	407.29	N/A	N/A
17:00-17:15	A	603.22	603.22	N/A	N/A
17:00-17:15	B	41.35	41.35	N/A	N/A
17:00-17:15	C	486.35	486.35	N/A	N/A
17:15-17:30	A	738.78	738.78	N/A	N/A
17:15-17:30	B	50.65	50.65	N/A	N/A
17:15-17:30	C	595.65	595.65	N/A	N/A
17:30-17:45	A	738.78	738.78	N/A	N/A
17:30-17:45	B	50.65	50.65	N/A	N/A
17:30-17:45	C	595.65	595.65	N/A	N/A
17:45-18:00	A	603.22	603.22	N/A	N/A
17:45-18:00	B	41.35	41.35	N/A	N/A
17:45-18:00	C	486.35	486.35	N/A	N/A
18:00-18:15	A	505.16	505.16	N/A	N/A
18:00-18:15	B	34.63	34.63	N/A	N/A
18:00-18:15	C	407.29	407.29	N/A	N/A

Turning Proportions

Turning Counts or Proportions (PCU/hr) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	38.00	633.00
	B	34.00	0.00	12.00
	C	497.00	44.00	0.00

Turning Proportions (PCU) - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.06	0.94
	B	0.74	0.00	0.26
	C	0.92	0.08	0.00

Vehicle Mix

Average PCU Per Vehicle - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	1.00	1.00	1.00
	B	1.00	1.00	1.00
	C	1.00	1.00	1.00

From To

Heavy Vehicle Percentages - Roundabout 1 (for whole period)

		To		
		A	B	C
From	A	0.00	0.00	0.00
	B	0.00	0.00	0.00
	C	0.00	0.00	0.00

Results

Results Summary

Arm	Max RFC	Max Delay (min)	Max Queue (PCU)	Max LOS	Total Demand (PCU/hr)	Total Arrivals (PCU)	Total Queueing Delay (PCU-min)	Average Queueing Delay (min)	Rate Of Queueing Delay (PCU-min/min)	Inclusive Queueing Total Delay (PCU-min)	Inclusive Queueing Average Delay (min)	Slope	Intercept (PCU/hr)
A	0.36	0.05	0.56	A	615.72	923.58	38.59	0.04	0.43	38.59	0.04	0.685	2094.901
B	0.05	0.06	0.05	A	42.21	63.32	3.44	0.05	0.04	3.44	0.05	0.571	1484.915
C	0.30	0.04	0.42	A	496.43	744.65	29.81	0.04	0.33	29.81	0.04	0.694	2027.030

Main Results

Main results: (16:45-17:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	505.16	126.29	503.88	398.75	33.04	0.00	2072.25	1993.63	0.244	0.00	0.32
B	34.63	8.66	34.51	61.58	475.34	0.00	1213.29	410.19	0.029	0.00	0.03
C	407.29	101.82	406.28	484.35	25.51	0.00	2009.33	1816.69	0.203	0.00	0.25

Main results: (17:00-17:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	603.22	150.80	602.86	477.09	39.53	0.00	2067.80	1993.63	0.292	0.32	0.41
B	41.35	10.34	41.32	73.67	568.72	0.00	1159.93	410.19	0.036	0.03	0.04
C	486.35	121.59	486.09	579.50	30.54	0.00	2005.84	1816.69	0.242	0.25	0.32

Main results: (17:15-17:30)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	738.78	184.70	738.20	584.23	48.41	0.00	2061.72	1993.64	0.358	0.41	0.56
B	50.65	12.66	50.60	90.22	696.40	0.00	1086.97	410.19	0.047	0.04	0.05
C	595.65	148.91	595.24	709.60	37.40	0.00	2001.08	1816.69	0.298	0.32	0.42

Main results: (17:30-17:45)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	738.78	184.70	738.78	584.64	48.44	0.00	2061.70	1993.64	0.358	0.56	0.56
B	50.65	12.66	50.65	90.28	696.94	0.00	1086.66	410.19	0.047	0.05	0.05
C	595.65	148.91	595.65	710.15	37.43	0.00	2001.06	1816.69	0.298	0.42	0.42

Main results: (17:45-18:00)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	603.22	150.80	603.20	477.22	39.53	0.00	2067.77	1993.63	0.292	0.32	0.41

A	603.22	150.80	603.79	477.77	39.59	0.00	2067.77	1993.63	0.292	0.56	0.41
B	41.35	10.34	41.40	73.78	569.60	0.00	1159.43	410.19	0.036	0.05	0.04
C	486.35	121.59	486.76	580.40	30.60	0.00	2005.80	1816.69	0.242	0.42	0.32

Main results: (18:00-18:15)

Arm	Demand (PCU/hr)	Arrivals (PCU)	Entry Flow (PCU/hr)	Exit Flow (PCU/hr)	Circulating Flow (PCU/hr)	Pedestrian Demand (Ped/hr)	Capacity (PCU/hr)	Saturation Capacity (PCU/hr)	RFC	Start Queue (PCU)	End Queue (PCU)
A	505.16	126.29	505.52	400.03	33.15	0.00	2072.18	1993.63	0.244	0.41	0.32
B	34.63	8.66	34.66	61.78	476.90	0.00	1212.40	410.19	0.029	0.04	0.03
C	407.29	101.82	407.56	485.94	25.62	0.00	2009.26	1816.69	0.203	0.32	0.26

Queueing Delay Results

Queueing Delay results: (16:45-17:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.74	0.32	0.038	A	A
B	0.43	0.03	0.051	A	A
C	3.75	0.25	0.037	A	A

Queueing Delay results: (17:00-17:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	6.08	0.41	0.041	A	A
B	0.55	0.04	0.054	A	A
C	4.73	0.32	0.039	A	A

Queueing Delay results: (17:15-17:30)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	8.22	0.55	0.045	A	A
B	0.72	0.05	0.058	A	A
C	6.25	0.42	0.043	A	A

Queueing Delay results: (17:30-17:45)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	8.35	0.56	0.045	A	A
B	0.73	0.05	0.058	A	A
C	6.34	0.42	0.043	A	A

Queueing Delay results: (17:45-18:00)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	6.29	0.42	0.041	A	A
B	0.56	0.04	0.054	A	A
C	4.88	0.33	0.039	A	A

Queueing Delay results: (18:00-18:15)

Arm	Queueing Total Delay (PCU-min)	Queueing Rate Of Delay (PCU-min/min)	Average Delay Per Arriving Vehicle (min)	Unsignalised Level Of Service	Signalised Level Of Service
A	4.91	0.33	0.038	A	A
B	0.45	0.03	0.051	A	A
C	3.87	0.26	0.037	A	A

Overview: Standard Roundabout Geometry

Overview: Standard Geometry


Standard Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit Only	Final Slope	Final Intercept (PCU/hr)
A	6.00	8.00	15.00	20.00	45.00	49.00		0.685	2094.901
B	3.50	7.00	10.00	20.00	45.00	44.00		0.571	1484.915
C	5.75	7.00	10.00	35.00	45.00	34.00		0.694	2027.030

Overview: Time Segment Results

Time Segment Results

Time Segment	Arm	Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Pedestrian Demand (Ped/hr)	Start Queue (PCU)	End Queue (PCU)	Queueing Total Delay (PCU-min)	Geometric Total Delay (PCU-min)	Average Delay Per Arriving Vehicle (min)
16:45-17:00	A	505.16	2072.25	0.244	0.00	0.00	0.32	4.74	(0.00)	0.038
16:45-17:00	B	34.63	1213.29	0.029	0.00	0.00	0.03	0.43	(0.00)	0.051
16:45-17:00	C	407.29	2009.33	0.203	0.00	0.00	0.25	3.75	(0.00)	0.037
17:00-17:15	A	603.22	2067.80	0.292	0.00	0.32	0.41	6.08	(0.00)	0.041
17:00-17:15	B	41.35	1159.93	0.036	0.00	0.03	0.04	0.55	(0.00)	0.054
17:00-17:15	C	486.35	2005.84	0.242	0.00	0.25	0.32	4.73	(0.00)	0.039
17:15-17:30	A	738.78	2061.72	0.358	0.00	0.41	0.56	8.22	(0.00)	0.045
17:15-17:30	B	50.65	1086.97	0.047	0.00	0.04	0.05	0.72	(0.00)	0.058
17:15-17:30	C	595.65	2001.08	0.298	0.00	0.32	0.42	6.25	(0.00)	0.043
17:30-17:45	A	738.78	2061.70	0.358	0.00	0.56	0.56	8.35	(0.00)	0.045
17:30-17:45	B	50.65	1086.66	0.047	0.00	0.05	0.05	0.73	(0.00)	0.058
17:30-17:45	C	595.65	2001.06	0.298	0.00	0.42	0.42	6.34	(0.00)	0.043
17:45-18:00	A	603.22	2067.77	0.292	0.00	0.56	0.41	6.29	(0.00)	0.041
17:45-18:00	B	41.35	1159.43	0.036	0.00	0.05	0.04	0.56	(0.00)	0.054
17:45-18:00	C	486.35	2005.80	0.242	0.00	0.42	0.32	4.88	(0.00)	0.039
18:00-18:15	A	505.16	2072.18	0.244	0.00	0.41	0.32	4.91	(0.00)	0.038
18:00-18:15	B	34.63	1212.40	0.029	0.00	0.04	0.03	0.45	(0.00)	0.051
18:00-18:15	C	407.29	2009.26	0.203	0.00	0.32	0.26	3.87	(0.00)	0.037

PICADY		
GUI Version: 5.1 AE Analysis Program Release: 5.0 (MAY 2010)		
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Run Analysis

Parameter	Values
File Run	\\O..\Revision A\2014 Wretchwick Way -Pergrine Way Junction.vpi
Date Run	10 April 2015
Time Run	11:26:55
Driving Side	Drive On The Left

Arm Names and Flow Scaling Factors

Arm	Arm Name	Flow Scaling Factor (%)
Arm A	Wretchwick Way SW	100
Arm B	Peregrine Way	100
Arm C	Wretchwick Way NE	100

Stream Labelling Convention

Stream A-B contains traffic going from A to B etc.

Run Information

Parameter	Values
Run Title	Wretchwick Way - Peregrine Way
Location	Bicester
Date	13 July 2010
Enumerator	Alexanders [CS5DG3J]
Job Number	18578-01-1
Status	TIA
Client	JJ Gallagher
Description	-

Errors and Warnings

Parameter	Values
Warning	No Errors Or Warnings

Geometric Data

Geometric Parameters

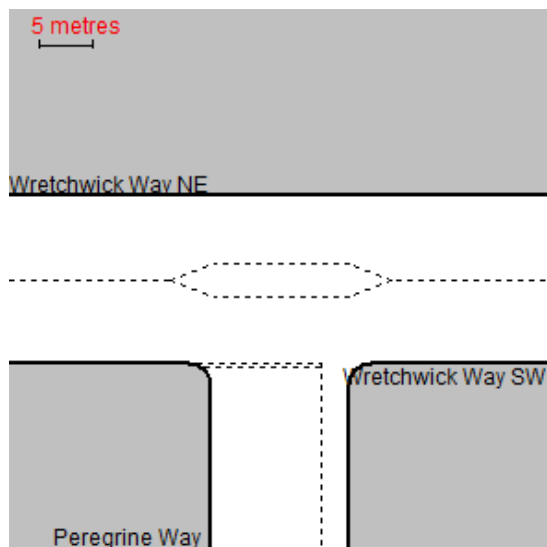
Parameter	Minor Arm B
Major Road Carriageway Width (m)	12.00
Major Road Kerbed Central Reserve Width (m)	0.00
Major Road Right Turning Lane Width (m)	3.20
Minor Road Width 0m Back from Junction (m)	10.00
Minor Road Width 5m Back from Junction (m)	9.00
Minor Road Width 10m Back from Junction (m)	6.50
Minor Road Width 15m Back from Junction (m)	6.00
Minor Road Width 20m Back from Junction (m)	6.00
Minor Road Flare Length (veh)	1
Minor Road Visibility To Right (m)	120
Minor Road Visibility To Left (m)	65
Major Road Right Turn Visibility (m)	120
Major Road Right Turn Blocks Traffic	No

Slope and Intercept Values

Stream	Intercept for Stream	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	0.000	0.000	0.000	0.000	0.000
B-C	0.000	0.000	0.000	-	-
C-B	713.487	0.204	0.204	-	-

Note: Streams may be combined in which case capacity will be adjusted
These values do not allow for any site-specific corrections

Junction Diagram



Demand Data

Modelling Periods

Parameter	Period	Duration (min)	Segment Length (min)
First Modelling Period	07:45-09:15	90	15
Second Modelling Period	16:45-18:15	90	15

ODTAB Turning Counts

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

From/To	Arm A	Arm B	Arm C
Arm A	0.0	47.0	348.0
Arm B	86.0	0.0	119.0
Arm C	628.0	76.0	0.0

Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

From/To	Arm A	Arm B	Arm C
Arm A	0.0	90.0	599.0
Arm B	46.0	0.0	80.0
Arm C	413.0	124.0	0.0

ODTAB Synthesised Flows

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

Arm	Rising Time	Rising Flow (veh/min)	Peak Time	Peak Flow (veh/min)	Falling Time	Falling Flow (veh/min)
Arm A	08:00	4.938	08:30	7.406	09:00	4.938
Arm B	08:00	2.563	08:30	3.844	09:00	2.563
Arm C	08:00	8.800	08:30	13.200	09:00	8.800

Heavy Vehicles Percentages

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

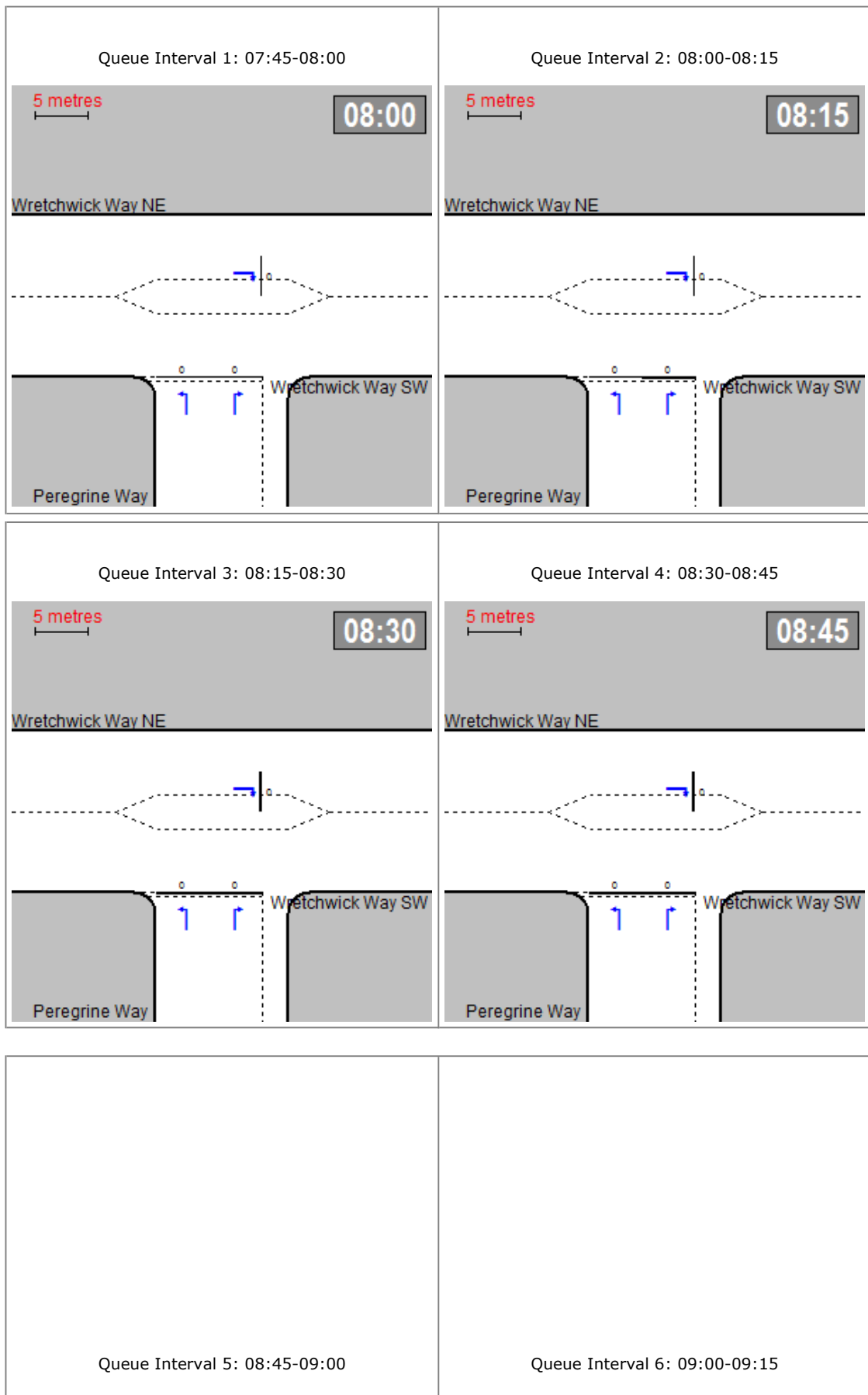
From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	0.0
Arm B	0.0	-	0.0
Arm C	0.0	0.0	-

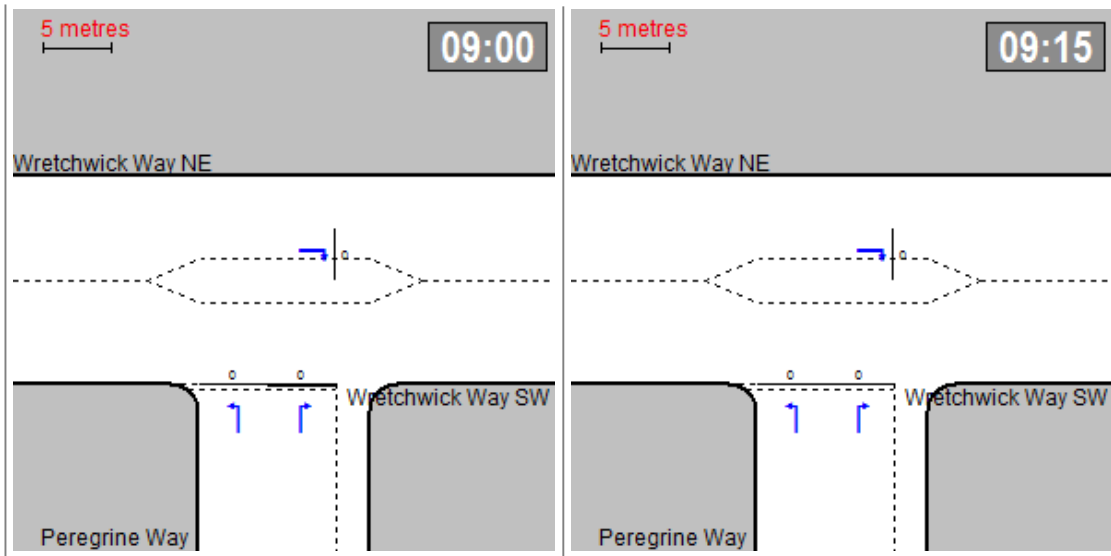
Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

From/To	Arm A	Arm B	Arm C
Arm A	-	0.0	0.0
Arm B	0.0	-	0.0
Arm C	0.0	0.0	-

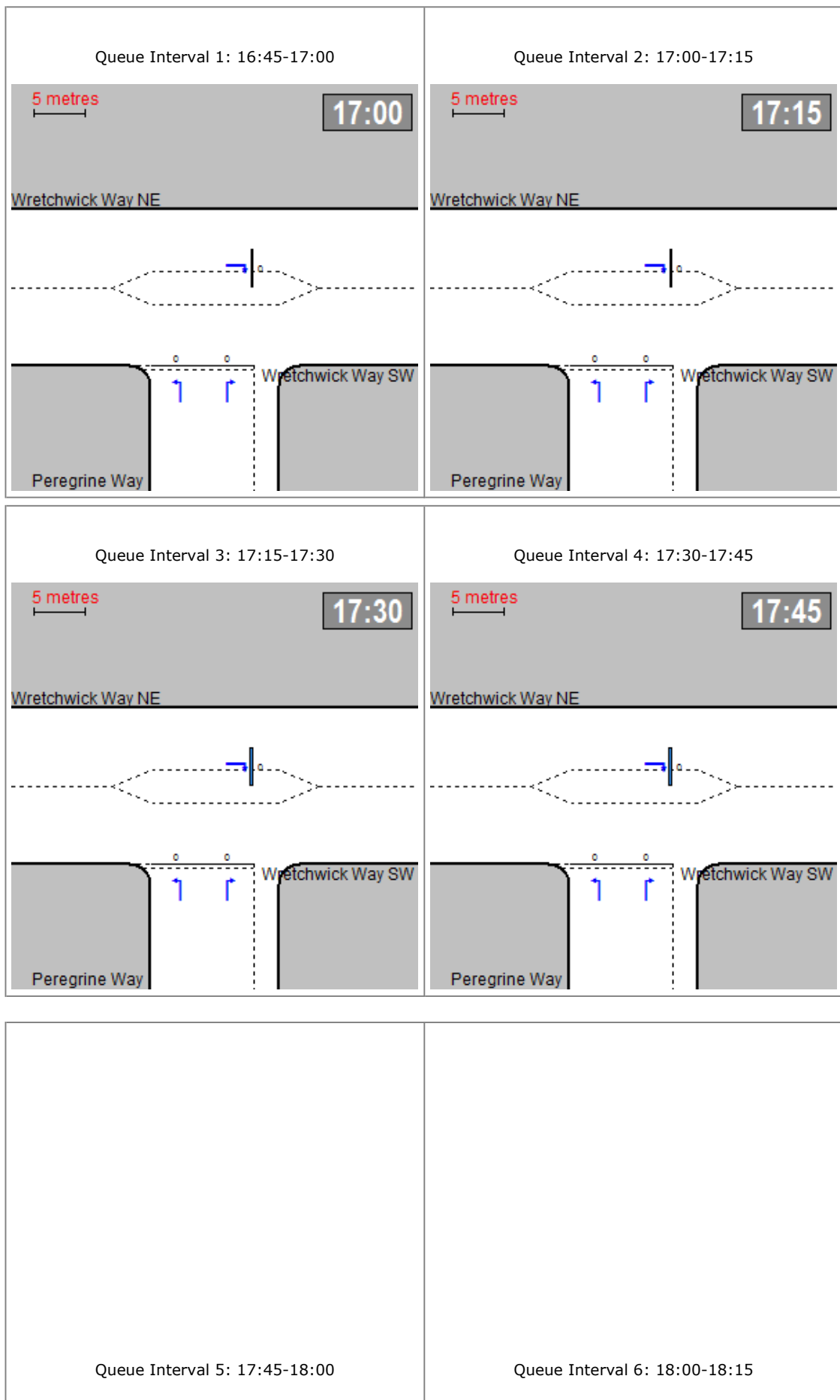
Queue Diagrams

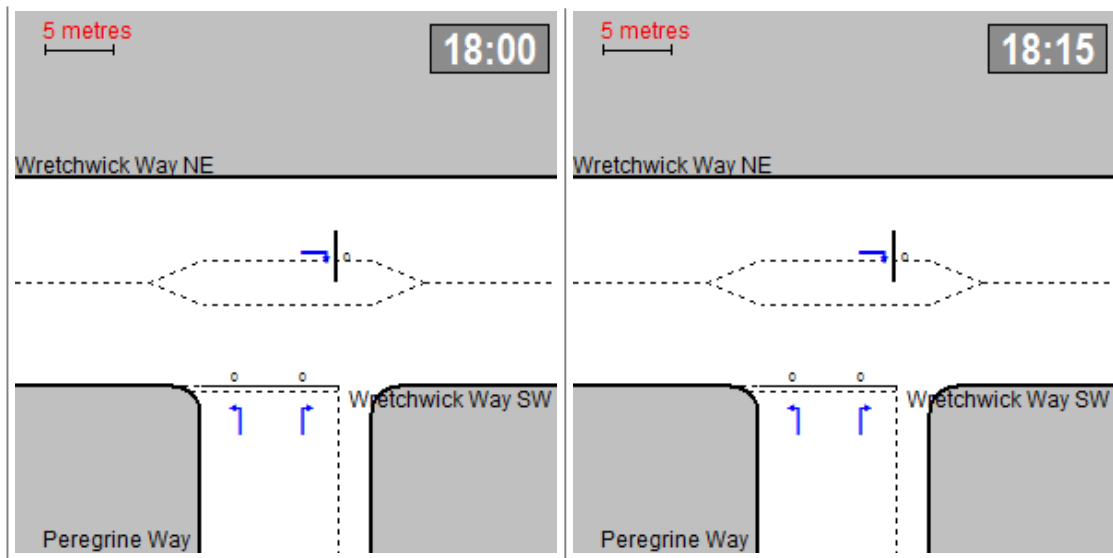
Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15
View Extent: 40m





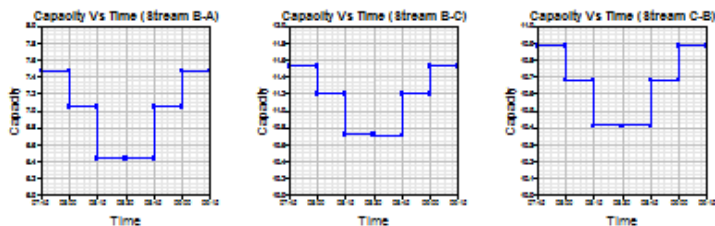
Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15
View Extent: 40m



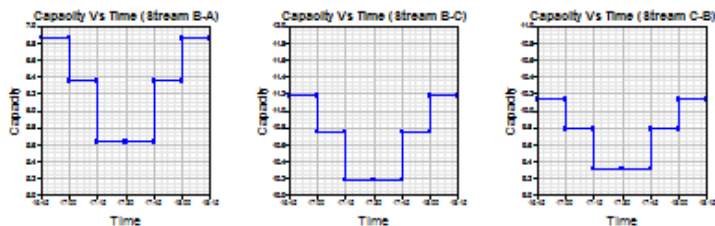


Capacity Graph

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

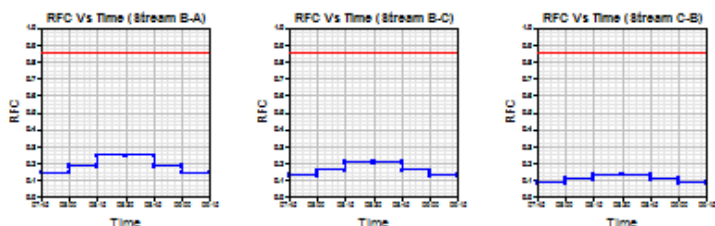


Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

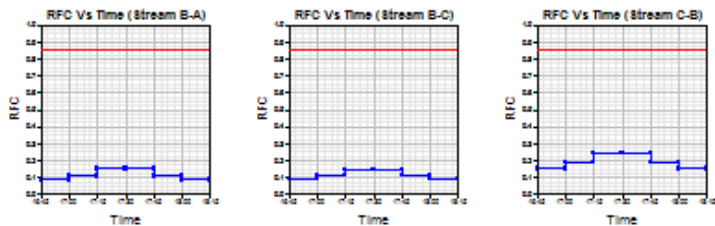


RFC Graph

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

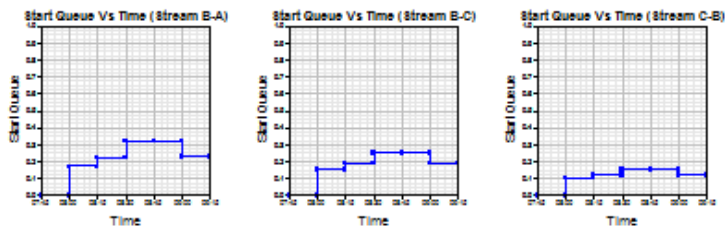


Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

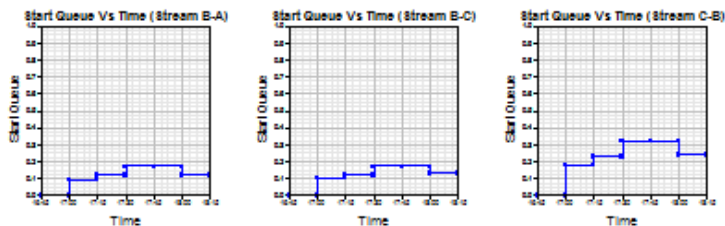


Start Queue Graph

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15

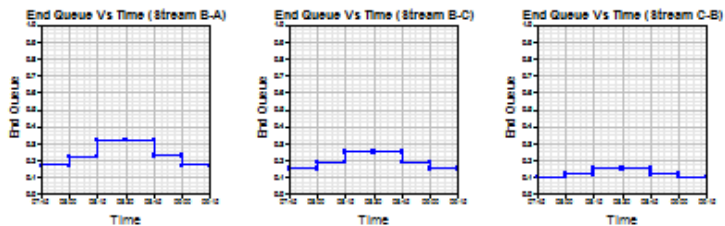


Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

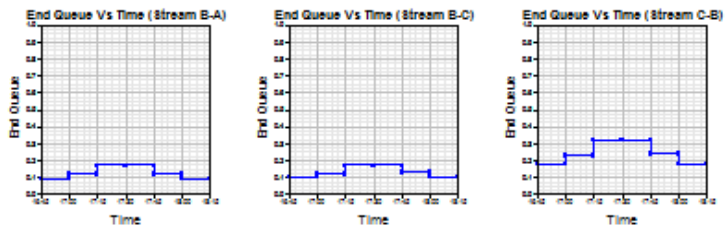


End Queue Graph

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 07:45-09:15



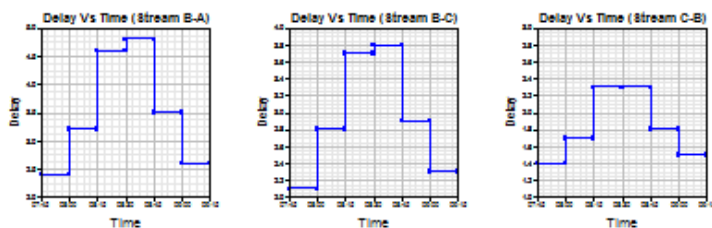
Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15



Delay Graph

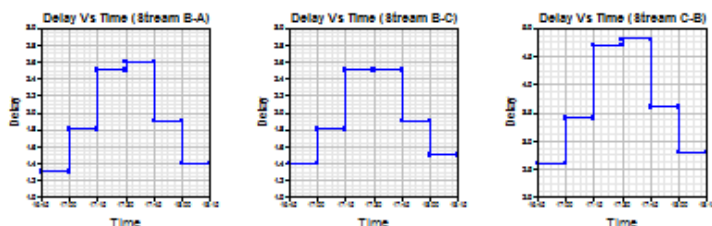
Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way

Modelling Period: 07:45-09:15



Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way

Modelling Period: 16:45-18:15



Queues & Delays

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way

Modelling Period: 07:45-09:15

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
07:45-08:00	B-A	1.08	7.47	0.144	-	0.00	0.17	-	2.4	0.16
	B-C	1.49	11.53	0.130	-	0.00	0.15	-	2.1	0.10
	C-A	7.88	-	-	-	-	-	-	-	-
	C-B	0.95	10.88	0.088	-	0.00	0.10	-	1.4	0.10
	A-B	0.59	-	-	-	-	-	-	-	-
	A-C	4.37	-	-	-	-	-	-	-	-
08:00-08:15	B-A	1.29	7.04	0.183	-	0.17	0.22	-	3.2	0.17
	B-C	1.78	11.20	0.159	-	0.15	0.19	-	2.8	0.11
	C-A	9.41	-	-	-	-	-	-	-	-
	C-B	1.14	10.68	0.107	-	0.10	0.12	-	1.7	0.10
	A-B	0.70	-	-	-	-	-	-	-	-
	A-C	5.21	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:15-08:30	B-A	1.58	6.43	0.246	-	0.22	0.32	-	4.6	0.21
	B-C	2.18	10.72	0.204	-	0.19	0.25	-	3.7	0.12
	C-A	11.52	-	-	-	-	-	-	-	-
	C-B	1.39	10.41	0.134	-	0.12	0.15	-	2.3	0.11
	A-B	0.86	-	-	-	-	-	-	-	-
	A-C	6.39	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:30-08:45	B-A	1.58	6.43	0.246	-	0.32	0.32	-	4.8	0.21
	B-C	2.18	10.71	0.204	-	0.25	0.25	-	3.8	0.12
	C-A	11.52	-	-	-	-	-	-	-	-
	C-B	1.39	10.41	0.134	-	0.15	0.15	-	2.3	0.11
	A-B	0.86	-	-	-	-	-	-	-	-
	A-C	6.39	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
08:45-09:00	B-A	1.29	7.04	0.183	-	0.32	0.23	-	3.5	0.17
	B-C	1.78	11.20	0.159	-	0.25	0.19	-	2.9	0.11
	C-A	9.41	-	-	-	-	-	-	-	-
	C-B	1.14	10.68	0.107	-	0.15	0.12	-	1.8	0.10
	A-B	0.70	-	-	-	-	-	-	-	-
	A-C	5.21	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
09:00-09:15	B-A	1.08	7.47	0.144	-	0.23	0.17	-	2.6	0.16
	B-C	1.49	11.52	0.130	-	0.19	0.15	-	2.3	0.10
	C-A	7.88	-	-	-	-	-	-	-	-
	C-B	0.95	10.88	0.088	-	0.12	0.10	-	1.5	0.10
	A-B	0.59	-	-	-	-	-	-	-	-
	A-C	4.37	-	-	-	-	-	-	-	-

Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way
Modelling Period: 16:45-18:15

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
16:45-17:00	B-A	0.58	6.86	0.084	-	0.00	0.09	-	1.3	0.16
	B-C	1.00	11.17	0.090	-	0.00	0.10	-	1.4	0.10
	C-A	5.18	-	-	-	-	-	-	-	-
	C-B	1.56	10.13	0.154	-	0.00	0.18	-	2.6	0.12
	A-B	1.13	-	-	-	-	-	-	-	-
	A-C	7.52	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:00-17:15	B-A	0.69	6.35	0.109	-	0.09	0.12	-	1.8	0.18
	B-C	1.20	10.75	0.111	-	0.10	0.12	-	1.8	0.10
	C-A	6.19	-	-	-	-	-	-	-	-
	C-B	1.86	9.78	0.190	-	0.18	0.23	-	3.4	0.13
	A-B	1.35	-	-	-	-	-	-	-	-
	A-C	8.97	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:15-17:30	B-A	0.84	5.63	0.150	-	0.12	0.17	-	2.5	0.21
	B-C	1.47	10.18	0.144	-	0.12	0.17	-	2.5	0.11
	C-A	7.58	-	-	-	-	-	-	-	-
	C-B	2.28	9.31	0.244	-	0.23	0.32	-	4.7	0.14
	A-B	1.65	-	-	-	-	-	-	-	-
	A-C	10.99	-	-	-	-	-	-	-	-
Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:30-17:45	B-A	0.84	5.63	0.150	-	0.17	0.17	-	2.6	0.21
	B-C	1.47	10.18	0.144	-	0.17	0.17	-	2.5	0.11
	C-A	7.58	-	-	-	-	-	-	-	-
	C-B	2.28	9.31	0.244	-	0.32	0.32	-	4.8	0.14
	A-B	1.65	-	-	-	-	-	-	-	-
	A-C	10.99	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
17:45-18:00	B-A	0.69	6.35	0.109	-	0.17	0.12	-	1.9	0.18
	B-C	1.20	10.75	0.112	-	0.17	0.13	-	1.9	0.10
	C-A	6.19	-	-	-	-	-	-	-	-
	C-B	1.86	9.78	0.190	-	0.32	0.24	-	3.6	0.13
	A-B	1.35	-	-	-	-	-	-	-	-
	A-C	8.97	-	-	-	-	-	-	-	-

Segment	Stream	Demand (veh/min)	Capacity (veh/min)	RFC	Ped. Flow (ped/min)	Start Queue (veh)	End Queue (veh)	Geometric Delay (veh.min/segment)	Delay (veh.min/segment)	Mean Arriving Vehicle Delay (min)
18:00-18:15	B-A	0.58	6.85	0.084	-	0.12	0.09	-	1.4	0.16
	B-C	1.00	11.17	0.090	-	0.13	0.10	-	1.5	0.10
	C-A	5.18	-	-	-	-	-	-	-	-
	C-B	1.56	10.13	0.154	-	0.24	0.18	-	2.8	0.12
	A-B	1.13	-	-	-	-	-	-	-	-
	A-C	7.52	-	-	-	-	-	-	-	-

Entry capacities marked with an '(X)' are dominated by a pedestrian crossing in that time segment.

In time segments marked with a '(B)', traffic leaving the junction may block back from a crossing so impairing normal operation of the junction.

Delays marked with '###' could not be calculated.

Overall Queues & Delays

Queueing Delay Information Over Whole Period

Demand Set: 2014 AM PCU - Wretchwick Way - Peregrine Way

Modelling Period: 07:45-09:15

Stream	Total Demand (veh)	Total Demand (veh/h)	Queueing Delay (min)	Queueing Delay (min/veh)	Inclusive Delay (min)	Inclusive Delay (min/veh)
B-A	118.4	78.9	21.2	0.2	21.2	0.2
B-C	163.8	109.2	17.7	0.1	17.7	0.1
C-A	864.4	576.3	-	-	-	-
C-B	104.6	69.7	11.0	0.1	11.0	0.1
A-B	64.7	43.1	-	-	-	-
A-C	479.0	319.3	-	-	-	-
All	1794.9	1196.6	49.9	0.0	49.9	0.0

Demand Set: 2014 PM PCU - Wretchwick Way - Peregrine Way

Modelling Period: 16:45-18:15

Stream	Total Demand (veh)	Total Demand (veh/h)	Queueing Delay (min)	Queueing Delay (min/veh)	Inclusive Delay (min)	Inclusive Delay (min/veh)
B-A	63.3	42.2	11.5	0.2	11.5	0.2
B-C	110.1	73.4	11.7	0.1	11.7	0.1
C-A	568.5	379.0	-	-	-	-
C-B	170.7	113.8	21.9	0.1	21.9	0.1
A-B	123.9	82.6	-	-	-	-
A-C	824.5	549.7	-	-	-	-
All	1860.9	1240.6	45.2	0.0	45.2	0.0

Delay is that occurring only within the time period.

Inclusive delay includes delay suffered by vehicles which are still queuing after the end of the time period.

These will only be significantly different if there is a large queue remaining at the end of the time period.

PICADY 5 Run Successful