

Junctions 10						
PICADY 10 - Priority Intersection Module						
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Filename: Hinkley Rd_Site Access - East.j10
Path: F:\clients\Savoy\Barwell
Report generation date: 03/06/2024 14:05:41

- »2024 + Dev, AM
- »2024 + Dev, PM
- »2029 + Dev, AM
- »2029 + Dev, PM

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2024 + Dev						
Stream B-AC	0.1	7.80	0.06	0.0	7.49	0.02
Stream C-AB	0.0	5.57	0.01	0.1	5.48	0.04
2029 + Dev						
Stream B-AC	0.1	7.87	0.06	0.0	7.55	0.02
Stream C-AB	0.0	5.56	0.01	0.1	5.46	0.04

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

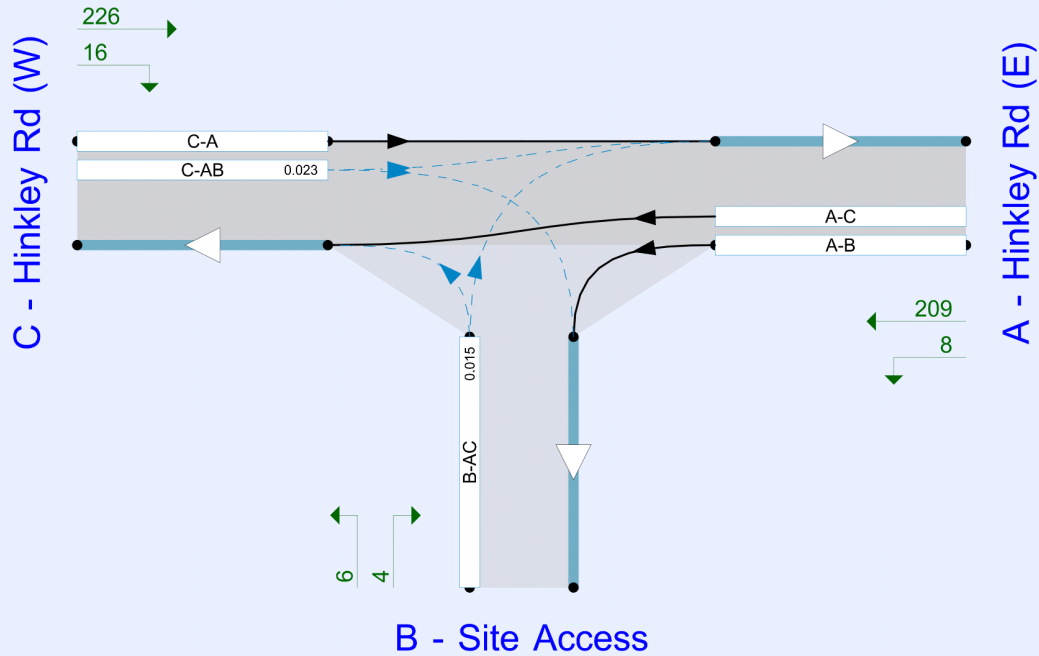
File summary

File Description

Title	Hinkley Rd / Site Access (East)
Location	
Site number	
Date	22/04/2024
Version	
Status	
Identifier	
Client	
Jobnumber	
Enumerator	al
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Av. delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr).
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75						0.85	36.00	20.00		

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2024 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D2	2024 + Dev	PM	ONE HOUR	16:45	18:15	15	✓
D3	2029 + Dev	AM	ONE HOUR	07:45	09:15	15	✓
D4	2029 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

2024 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Hinkley Rd / Site Access	T-Junction	Two-way	Two-way	Two-way		0.55	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.55	A

Arms

Arms

Arm	Name	Description	Arm type
A	Hinkley Rd (E)		Major
B	Site Access		Minor
C	Hinkley Rd (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Hinkley Rd (W)	6.00			80.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Site Access	One lane	2.94	20	20

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	491	0.089	0.226	0.142	0.323
B-C	633	0.097	0.245	-	-
C-B	620	0.240	0.240	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2024 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - Hinkley Rd (E)		ONE HOUR	✓	247	100.000
B - Site Access		ONE HOUR	✓	27	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	180	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	2	245
	B - Site Access	10	0	17
	C - Hinkley Rd (W)	175	5	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	0	12
	B - Site Access	0	0	0
	C - Hinkley Rd (W)	11	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	7.80	0.1	A	25	37
C-AB	0.01	5.57	0.0	A	6	9
C-A					159	239
A-B					2	3
A-C					225	337

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	517	0.039	20	0.0	0.0	7.247	A
C-AB	5	1	665	0.007	5	0.0	0.0	5.558	A
C-A	131	33			131				
A-B	2	0.38			2				
A-C	184	46			184				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	506	0.048	24	0.0	0.0	7.471	A
C-AB	6	1	675	0.009	6	0.0	0.0	5.500	A
C-A	156	39			156				
A-B	2	0.45			2				
A-C	220	55			220				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	491	0.061	30	0.0	0.1	7.800	A
C-AB	8	2	688	0.011	8	0.0	0.0	5.429	A
C-A	191	48			191				
A-B	2	0.55			2				
A-C	270	67			270				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	491	0.061	30	0.1	0.1	7.802	A
C-AB	8	2	688	0.011	8	0.0	0.0	5.440	A
C-A	191	48			191				
A-B	2	0.55			2				
A-C	270	67			270				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	506	0.048	24	0.1	0.1	7.476	A
C-AB	6	1	675	0.009	6	0.0	0.0	5.525	A
C-A	156	39			156				
A-B	2	0.45			2				
A-C	220	55			220				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	517	0.039	20	0.1	0.0	7.251	A
C-AB	5	1	665	0.007	5	0.0	0.0	5.570	A
C-A	131	33			131				
A-B	2	0.38			2				
A-C	184	46			184				

2024 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Hinkley Rd / Site Access	T-Junction	Two-way	Two-way	Two-way		0.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.44	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2024 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - Hinkley Rd (E)		ONE HOUR	✓	207	100.000
B - Site Access		ONE HOUR	✓	10	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	232	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	8	199
	B - Site Access	4	0	6
	C - Hinkley Rd (W)	216	16	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	0	9
	B - Site Access	0	0	0
	C - Hinkley Rd (W)	13	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.49	0.0	A	9	14
C-AB	0.04	5.48	0.1	A	21	31
C-A					192	288
A-B					7	11
A-C					183	274

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	516	0.015	7	0.0	0.0	7.082	A
C-AB	16	4	693	0.023	16	0.0	0.0	5.464	A
C-A	159	40			159				
A-B	6	2			6				
A-C	150	37			150				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	506	0.018	9	0.0	0.0	7.248	A
C-AB	20	5	708	0.028	20	0.0	0.0	5.392	A
C-A	189	47			189				
A-B	7	2			7				
A-C	179	45			179				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	491	0.022	11	0.0	0.0	7.493	A
C-AB	26	7	729	0.036	26	0.0	0.1	5.310	A
C-A	229	57			229				
A-B	9	2			9				
A-C	219	55			219				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	491	0.022	11	0.0	0.0	7.493	A
C-AB	26	7	729	0.036	26	0.1	0.1	5.328	A
C-A	229	57			229				
A-B	9	2			9				
A-C	219	55			219				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	506	0.018	9	0.0	0.0	7.252	A
C-AB	20	5	708	0.028	20	0.1	0.0	5.428	A
C-A	189	47			189				
A-B	7	2			7				
A-C	179	45			179				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	516	0.015	8	0.0	0.0	7.083	A
C-AB	16	4	693	0.023	16	0.0	0.0	5.482	A
C-A	159	40			159				
A-B	6	2			6				
A-C	150	37			150				

2029 + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Hinkley Rd / Site Access	T-Junction	Two-way	Two-way	Two-way		0.53	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.53	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2029 + Dev	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - Hinkley Rd (E)		ONE HOUR	✓	259	100.000
B - Site Access		ONE HOUR	✓	27	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	187	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	2	257
	B - Site Access	10	0	17
	C - Hinkley Rd (W)	182	5	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	0	12
	B - Site Access	0	0	0
	C - Hinkley Rd (W)	11	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.06	7.87	0.1	A	25	37
C-AB	0.01	5.56	0.0	A	6	9
C-A					165	248
A-B					2	3
A-C					236	354

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	514	0.040	20	0.0	0.0	7.285	A
C-AB	5	1	667	0.007	5	0.0	0.0	5.550	A
C-A	136	34			136				
A-B	2	0.38			2				
A-C	193	48			193				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	503	0.048	24	0.0	0.1	7.519	A
C-AB	6	1	677	0.009	6	0.0	0.0	5.489	A
C-A	162	41			162				
A-B	2	0.45			2				
A-C	231	58			231				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	487	0.061	30	0.1	0.1	7.865	A
C-AB	8	2	691	0.011	8	0.0	0.0	5.415	A
C-A	198	50			198				
A-B	2	0.55			2				
A-C	283	71			283				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	30	7	487	0.061	30	0.1	0.1	7.867	A
C-AB	8	2	691	0.011	8	0.0	0.0	5.427	A
C-A	198	50			198				
A-B	2	0.55			2				
A-C	283	71			283				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	24	6	503	0.048	24	0.1	0.1	7.524	A
C-AB	6	1	677	0.009	6	0.0	0.0	5.517	A
C-A	162	41			162				
A-B	2	0.45			2				
A-C	231	58			231				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	20	5	514	0.040	20	0.1	0.0	7.289	A
C-AB	5	1	667	0.007	5	0.0	0.0	5.564	A
C-A	136	34			136				
A-B	2	0.38			2				
A-C	193	48			193				

2029 + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Hinkley Rd / Site Access	T-Junction	Two-way	Two-way	Two-way		0.43	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.43	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2029 + Dev	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
A - Hinkley Rd (E)		ONE HOUR	✓	217	100.000
B - Site Access		ONE HOUR	✓	10	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	242	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	8	209
	B - Site Access	4	0	6
	C - Hinkley Rd (W)	226	16	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A - Hinkley Rd (E)	B - Site Access	C - Hinkley Rd (W)
From	A - Hinkley Rd (E)	0	0	9
	B - Site Access	0	0	0
	C - Hinkley Rd (W)	13	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.02	7.55	0.0	A	9	14
C-AB	0.04	5.46	0.1	A	21	31
C-A					201	302
A-B					7	11
A-C					192	288

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	513	0.015	7	0.0	0.0	7.116	A
C-AB	16	4	696	0.023	16	0.0	0.0	5.444	A
C-A	166	42			166				
A-B	6	2			6				
A-C	157	39			157				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	503	0.018	9	0.0	0.0	7.291	A
C-AB	20	5	712	0.028	20	0.0	0.0	5.369	A
C-A	197	49			197				
A-B	7	2			7				
A-C	188	47			188				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	488	0.023	11	0.0	0.0	7.549	A
C-AB	27	7	734	0.036	27	0.0	0.1	5.282	A
C-A	240	60			240				
A-B	9	2			9				
A-C	230	58			230				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	11	3	488	0.023	11	0.0	0.0	7.550	A
C-AB	27	7	734	0.036	27	0.1	0.1	5.298	A
C-A	240	60			240				
A-B	9	2			9				
A-C	230	58			230				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	9	2	503	0.018	9	0.0	0.0	7.292	A
C-AB	20	5	712	0.028	20	0.1	0.0	5.405	A
C-A	197	49			197				
A-B	7	2			7				
A-C	188	47			188				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	8	2	513	0.015	8	0.0	0.0	7.120	A
C-AB	16	4	696	0.023	16	0.0	0.0	5.463	A
C-A	166	42			166				
A-B	6	2			6				
A-C	157	39			157				