

Junctions 10						
PICADY 10 - Priority Intersection Module						
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Filename: Hinkley Rd_Site Access - West.j10
Path: F:\clients\Savoy\Barwell
Report generation date: 03/06/2024 13:01:45

- »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	7.91	0.07	0.0	7.41	0.02
Stream C-AB	0.0	5.62	0.01	0.1	5.45	0.04
2029 + Dev						
Stream B-AC	0.1	7.97	0.07	0.0	7.47	0.02
Stream C-AB	0.0	5.61	0.01	0.1	5.43	0.04

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

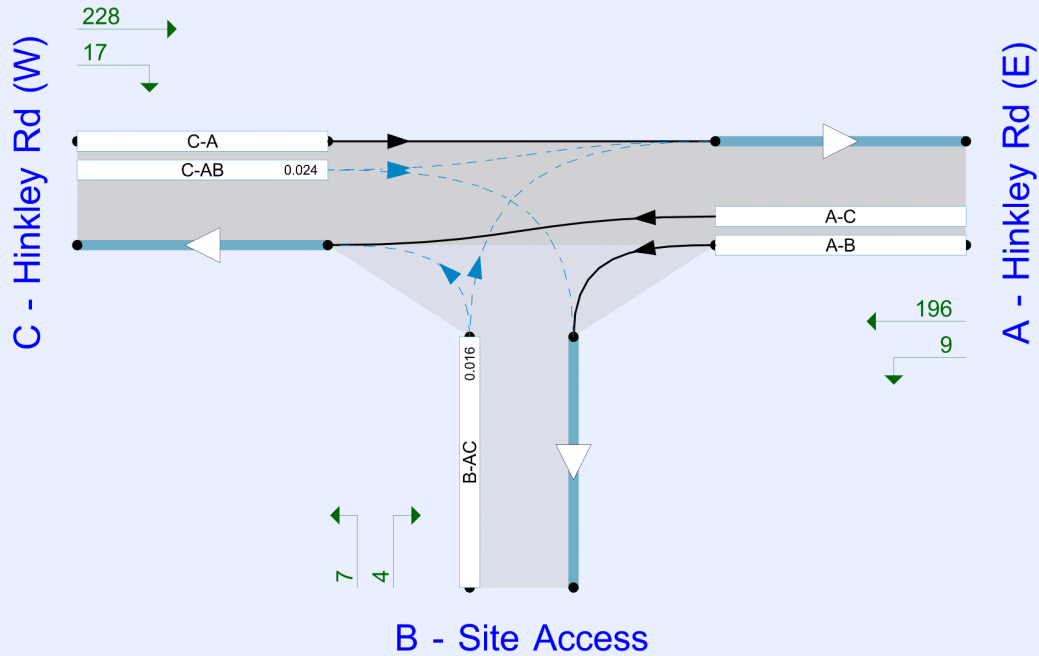
File summary

File Description

Title	Hinkley Rd / Site Access (West)
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		0.59	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.59	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	✓	262	100.000
B - Site Access		ONE HOUR	✓	30	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	174	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	260
	B - Site Access	11	0	19
	C - Hinkley Rd (W)	169	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	0.07	7.91	0.1	A	28	41
C-AB	0.01	5.62	0.0	A	6	9
C-A					154	230
A-B					2	3
A-C					239	358

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	23	6	515	0.044	22	0.0	0.0	7.306	A
C-AB	5	1	660	0.007	5	0.0	0.0	5.603	A
C-A	126	32			126				
A-B	2	0.38			2				
A-C	196	49			196				

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	27	7	504	0.054	27	0.0	0.1	7.548	A
C-AB	6	1	668	0.009	6	0.0	0.0	5.552	A
C-A	151	38			151				
A-B	2	0.45			2				
A-C	234	58			234				

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	33	8	488	0.068	33	0.1	0.1	7.905	A
C-AB	8	2	680	0.011	8	0.0	0.0	5.491	A
C-A	184	46			184				
A-B	2	0.55			2				
A-C	286	72			286				

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	33	8	488	0.068	33	0.1	0.1	7.907	A
C-AB	8	2	680	0.011	8	0.0	0.0	5.502	A
C-A	184	46			184				
A-B	2	0.55			2				
A-C	286	72			286				

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	27	7	504	0.054	27	0.1	0.1	7.550	A
C-AB	6	1	668	0.009	6	0.0	0.0	5.576	A
C-A	151	38			151				
A-B	2	0.45			2				
A-C	234	58			234				

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	23	6	515	0.044	23	0.1	0.0	7.310	A
C-AB	5	1	660	0.007	5	0.0	0.0	5.617	A
C-A	126	32			126				
A-B	2	0.38			2				
A-C	196	49			196				

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		0.46	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.46	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	✓	205	100.000
B - Site Access		ONE HOUR	✓	11	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	245	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	9	196
	B - Site Access	4	0	7
	C - Hinkley Rd (W)	228	17	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	7.41	0.0	A	10	15
C-AB	0.04	5.45	0.1	A	22	33
C-A					203	304
A-B					8	12
A-C					180	270

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	522	0.016	8	0.0	0.0	7.010	A
C-AB	17	4	699	0.024	17	0.0	0.0	5.429	A
C-A	167	42			167				
A-B	7	2			7				
A-C	148	37			148				

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	10	2	512	0.019	10	0.0	0.0	7.173	A
C-AB	21	5	715	0.030	21	0.0	0.0	5.352	A
C-A	199	50			199				
A-B	8	2			8				
A-C	176	44			176				

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	12	3	498	0.024	12	0.0	0.0	7.414	A
C-AB	28	7	738	0.039	28	0.0	0.1	5.263	A
C-A	241	60			241				
A-B	10	2			10				
A-C	216	54			216				

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	12	3	498	0.024	12	0.0	0.0	7.414	A
C-AB	28	7	738	0.039	28	0.1	0.1	5.282	A
C-A	241	60			241				
A-B	10	2			10				
A-C	216	54			216				

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	10	2	512	0.019	10	0.0	0.0	7.177	A
C-AB	21	5	715	0.030	22	0.1	0.0	5.388	A
C-A	199	50			199				
A-B	8	2			8				
A-C	176	44			176				

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	522	0.016	8	0.0	0.0	7.013	A
C-AB	17	4	699	0.024	17	0.0	0.0	5.446	A
C-A	167	42			167				
A-B	7	2			7				
A-C	148	37			148				

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		0.57	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.57	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	✓	274	100.000
B - Site Access		ONE HOUR	✓	30	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	181	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	272
	B - Site Access	11	0	19
	C - Hinkley Rd (W)	176	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	0.07	7.97	0.1	A	28	41
C-AB	0.01	5.61	0.0	A	6	9
C-A					160	240
A-B					2	3
A-C					250	374

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	23	6	512	0.044	22	0.0	0.0	7.344	A
C-AB	5	1	661	0.007	5	0.0	0.0	5.594	A
C-A	132	33			132				
A-B	2	0.38			2				
A-C	205	51			205				

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	27	7	501	0.054	27	0.0	0.1	7.597	A
C-AB	6	1	670	0.009	6	0.0	0.0	5.541	A
C-A	157	39			157				
A-B	2	0.45			2				
A-C	245	61			245				

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	33	8	484	0.068	33	0.1	0.1	7.972	A
C-AB	8	2	683	0.011	8	0.0	0.0	5.476	A
C-A	192	48			192				
A-B	2	0.55			2				
A-C	299	75			299				

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	33	8	484	0.068	33	0.1	0.1	7.974	A
C-AB	8	2	683	0.011	8	0.0	0.0	5.490	A
C-A	192	48			192				
A-B	2	0.55			2				
A-C	299	75			299				

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	27	7	501	0.054	27	0.1	0.1	7.602	A
C-AB	6	1	670	0.009	6	0.0	0.0	5.568	A
C-A	157	39			157				
A-B	2	0.45			2				
A-C	245	61			245				

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	23	6	512	0.044	23	0.1	0.0	7.352	A
C-AB	5	1	661	0.007	5	0.0	0.0	5.606	A
C-A	132	33			132				
A-B	2	0.38			2				
A-C	205	51			205				

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		0.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.45	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	✓	215	100.000
B - Site Access		ONE HOUR	✓	11	100.000
C - Hinkley Rd (W)		ONE HOUR	✓	255	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	9	206
	B - Site Access	4	0	7
	C - Hinkley Rd (W)	238	17	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	7.47	0.0	A	10	15
C-AB	0.04	5.43	0.1	A	23	34
C-A					211	317
A-B					8	12
A-C					189	284

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	519	0.016	8	0.0	0.0	7.043	A
C-AB	17	4	703	0.024	17	0.0	0.0	5.409	A
C-A	175	44			175				
A-B	7	2			7				
A-C	155	39			155				

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	10	2	509	0.019	10	0.0	0.0	7.215	A
C-AB	22	5	720	0.030	22	0.0	0.0	5.329	A
C-A	207	52			207				
A-B	8	2			8				
A-C	185	46			185				

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	12	3	494	0.025	12	0.0	0.0	7.468	A
C-AB	29	7	743	0.039	29	0.0	0.1	5.236	A
C-A	252	63			252				
A-B	10	2			10				
A-C	227	57			227				

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	12	3	494	0.025	12	0.0	0.0	7.468	A
C-AB	29	7	743	0.039	29	0.1	0.1	5.254	A
C-A	252	63			252				
A-B	10	2			10				
A-C	227	57			227				

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	10	2	509	0.019	10	0.0	0.0	7.215	A
C-AB	22	5	720	0.030	22	0.1	0.0	5.366	A
C-A	207	52			207				
A-B	8	2			8				
A-C	185	46			185				

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	519	0.016	8	0.0	0.0	7.046	A
C-AB	17	4	703	0.025	17	0.0	0.0	5.429	A
C-A	175	44			175				
A-B	7	2			7				
A-C	155	39			155				