Appendix K – Junction 4: Leeds Road / Chidswell Lane

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.0.6896

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Filename: Junc 4 A653 Leeds Road - Chidswell Lane - Feb 2020.j9
Path: P:\133--\A13398-VAA Land at Chidswell\30 Technical\31 Modelling\2019\Off-Site\Junctions9
Report generation date: 02/03/2020 14:12:01

Summary of junction performance

	AM					PM				
	Queue (PCU)	Delay (s)	RFC	LOS	Network Residual Capacity	Queue (PCU)	Delay (s)	RFC	LOS	Network Residual Capacity
2019 Base										
Stream B-C	0.1	8.99	0.07	A	25 % [Stream B-A]	0.0	7.47	0.05	A	67 % [Stream B-A]
Stream B-A	0.7	17.33	0.41	C		0.1	11.33	0.13	B	
Stream C-AB	0.0	6.67	0.04	A		0.1	6.88	0.06	A	
2024 DN										
Stream B-C	0.1	9.48	0.11	A	22 % [Stream B-A]	0.1	7.65	0.06	A	61 % [Stream B-A]
Stream B-A	0.6	18.36	0.39	C		0.2	11.96	0.13	B	
Stream C-AB	0.0	7.08	0.03	A		0.1	7.21	0.05	A	
2030 DN										
Stream B-C	0.2	10.06	0.14	B	18 % [Stream B-A]	0.1	7.91	0.07	A	57 % [Stream B-A]
Stream B-A	0.6	19.79	0.37	C		0.2	12.37	0.13	B	
Stream C-AB	0.0	7.52	0.02	A		0.0	7.55	0.02	A	
2024 DS(A)										
Stream B-C	0.1	9.59	0.11	A	21 % [Stream B-A]	0.1	7.68	0.06	A	59 % [Stream B-A]
Stream B-A	0.7	18.74	0.39	C		0.2	12.09	0.13	B	
Stream C-AB	0.0	7.14	0.04	A		0.1	7.24	0.05	A	
2024 DS(A+B)										
Stream B-C	0.1	9.71	0.11	A	18 % [Stream B-A]	0.1	7.85	0.06	A	55 % [Stream B-A]
Stream B-A	0.7	19.60	0.40	C		0.2	12.51	0.14	B	
Stream C-AB	0.0	7.16	0.04	A		0.1	7.40	0.05	A	
2030 DS(A)										
Stream B-C	0.2	10.29	0.15	B	16 % [Stream B-A]	0.1	7.97	0.07	A	54 % [Stream B-A]
Stream B-A	0.6	20.60	0.38	C		0.2	12.61	0.13	B	
Stream C-AB	0.0	7.63	0.03	A		0.0	7.60	0.02	A	
2030 DS(A+B)										
Stream B-C	23.8	242.18	1.13	F	-17 % [Stream B-A]	0.7	15.44	0.42	C	-3 % [Stream B-A]
Stream B-A	9.1	317.43	1.08	F		0.5	40.48	0.33	E	
Stream C-AB	0.3	10.21	0.20	B		1.1	19.40	0.54	C	

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

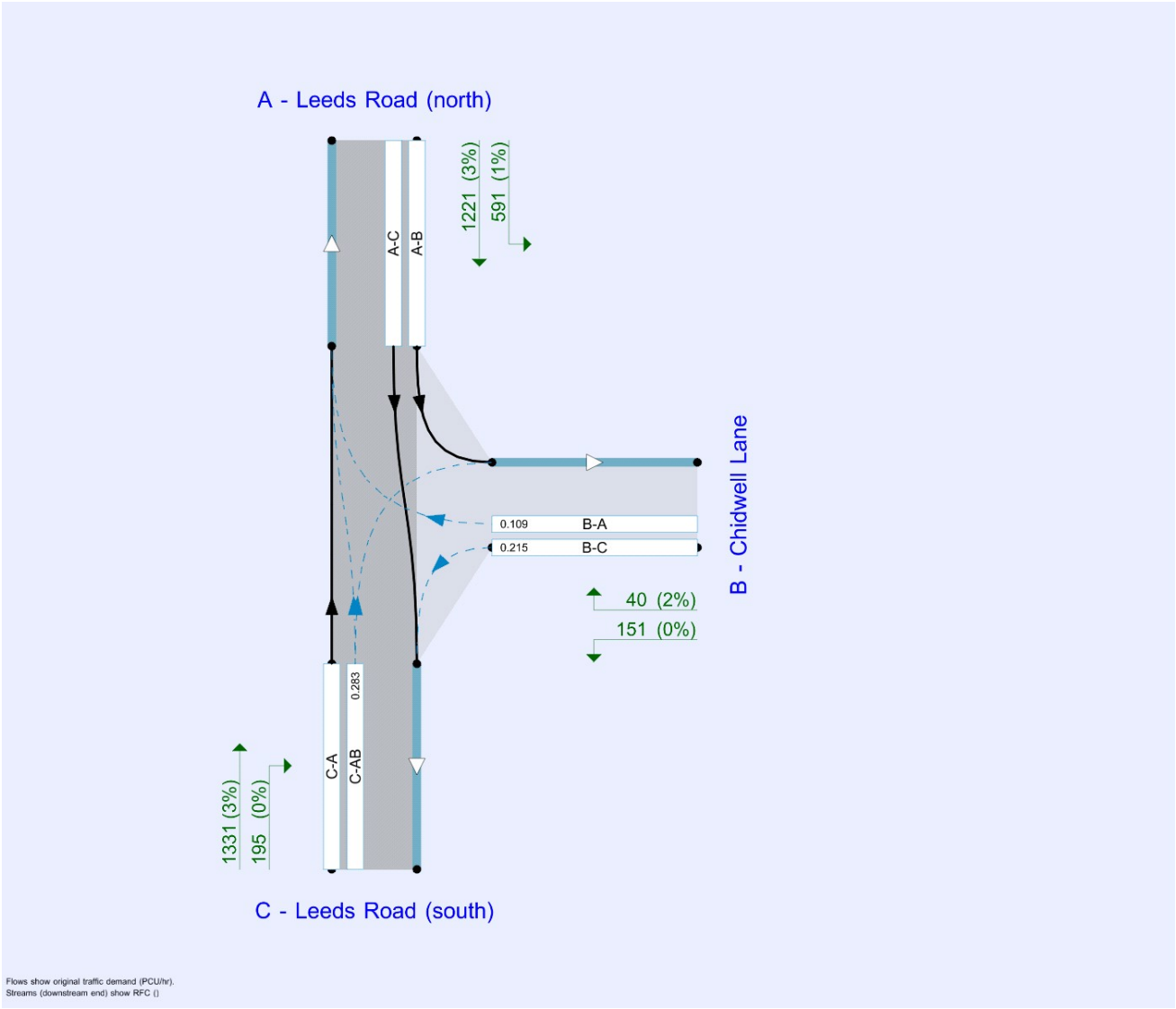
File summary

File Description

Title	Leeds Road Chidswell Road Junction
Location	Chiswell, Dewsbury
Site number	
Date	05/07/2016
Version	
Status	
Identifier	
Client	Church Commissioners
Jobnumber	A079758
Enumerator	tim.delaat [1368DT]
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	mph	PCU	PCU	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75			✓	Delay	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	2019 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2024 DN	AM	ONE HOUR	07:15	08:45	15	✓
D4	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓
D5	2030 DN	AM	ONE HOUR	07:15	08:45	15	✓
D6	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓
D7	2024 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓
D8	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D9	2024 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓
D10	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓
D11	2030 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D13	2030 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2019 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	25	Stream B-A

Arms

Arms

Arm	Name	Description	Arm type
A	Leeds Road (north)		Major
B	Chidwell Lane		Minor
C	Leeds Road (south)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Leeds Road (south)	14.49	✓	4.60	✓	4.50	83.0	✓	10.00

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	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Chidwell Lane	One lane plus flare	10.00	6.35	4.33	4.25	4.25	✓	1.00	48	30

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	648	0.067	0.171	0.107	0.244
1	B-C	654	0.063	0.160	-	-
1	C-B	778	0.190	0.190	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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	2019 Base	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	828	100.000
B - Chidwell Lane		ONE HOUR	✓	165	100.000
C - Leeds Road (south)		ONE HOUR	✓	1122	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	76	752
	B - Chidwell Lane	137	0	28
	C - Leeds Road (south)	1102	20	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	8.99	0.1	A	26	39
B-A	0.41	17.33	0.7	C	126	189
C-AB	0.04	6.67	0.0	A	18	28
C-A					1011	1517
A-B					70	105
A-C					690	1035

Main Results for each time segment

07:15 - 07:30

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-C	21	5	523	0.040	21	0.0	0.0	7.172	A
B-A	103	26	455	0.227	102	0.0	0.3	10.482	B
C-AB	15	4	659	0.023	15	0.0	0.0	6.034	A
C-A	830	207			830				
A-B	57	14			57				
A-C	566	142			566				

07:30 - 07:45

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-C	25	6	489	0.051	25	0.0	0.1	7.752	A
B-A	123	31	417	0.295	123	0.3	0.4	12.578	B
C-AB	18	4	636	0.028	18	0.0	0.0	6.287	A
C-A	991	248			991				
A-B	68	17			68				
A-C	676	169			676				

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-C	31	8	432	0.071	31	0.1	0.1	8.963	A
B-A	151	38	365	0.414	150	0.4	0.7	17.150	C
C-AB	22	6	604	0.036	22	0.0	0.0	6.674	A
C-A	1213	303			1213				
A-B	84	21			84				
A-C	828	207			828				

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-C	31	8	431	0.071	31	0.1	0.1	8.990	A
B-A	151	38	365	0.414	151	0.7	0.7	17.327	C
C-AB	22	6	604	0.036	22	0.0	0.0	6.674	A
C-A	1213	303			1213				
A-B	84	21			84				
A-C	828	207			828				

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-C	25	6	488	0.052	25	0.1	0.1	7.773	A
B-A	123	31	417	0.295	124	0.7	0.4	12.718	B
C-AB	18	4	636	0.028	18	0.0	0.0	6.288	A
C-A	991	248			991				
A-B	68	17			68				
A-C	676	169			676				

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-C	21	5	522	0.040	21	0.1	0.0	7.188	A
B-A	103	26	455	0.227	104	0.4	0.3	10.583	B
C-AB	15	4	659	0.023	15	0.0	0.0	6.037	A
C-A	830	207			830				
A-B	57	14			57				
A-C	566	142			566				

2019 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.41	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	67	Stream B-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	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1055	100.000
B - Chidwell Lane		ONE HOUR	✓	64	100.000
C - Leeds Road (south)		ONE HOUR	✓	967	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	340	715
	B - Chidwell Lane	43	0	21
	C - Leeds Road (south)	936	31	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	7.47	0.0	A	19	29
B-A	0.13	11.33	0.1	B	39	59
C-AB	0.06	6.88	0.1	A	28	43
C-A					859	1288
A-B					312	468
A-C					656	984

Main Results for each time segment

16:15 - 16:30

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-C	16	4	562	0.028	16	0.0	0.0	6.593	A
B-A	32	8	460	0.070	32	0.0	0.1	8.572	A
C-AB	23	6	627	0.037	23	0.0	0.0	5.962	A
C-A	705	176			705				
A-B	256	64			256				
A-C	538	135			538				

16:30 - 16:45

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-C	19	5	538	0.035	19	0.0	0.0	6.932	A
B-A	39	10	423	0.091	39	0.1	0.1	9.551	A
C-AB	28	7	598	0.047	28	0.0	0.0	6.319	A
C-A	841	210			841				
A-B	306	76			306				
A-C	643	161			643				

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-C	23	6	505	0.046	23	0.0	0.0	7.469	A
B-A	47	12	371	0.127	47	0.1	0.1	11.316	B
C-AB	34	9	557	0.061	34	0.0	0.1	6.884	A
C-A	1031	258			1031				
A-B	374	94			374				
A-C	787	197			787				

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-C	23	6	505	0.046	23	0.0	0.0	7.472	A
B-A	47	12	372	0.127	47	0.1	0.1	11.326	B
C-AB	34	9	557	0.061	34	0.1	0.1	6.884	A
C-A	1031	258			1031				
A-B	374	94			374				
A-C	787	197			787				

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-C	19	5	538	0.035	19	0.0	0.0	6.936	A
B-A	39	10	423	0.091	39	0.1	0.1	9.562	A
C-AB	28	7	598	0.047	28	0.1	0.0	6.320	A
C-A	841	210			841				
A-B	306	76			306				
A-C	643	161			643				

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-C	16	4	561	0.028	16	0.0	0.0	6.602	A
B-A	32	8	460	0.070	32	0.1	0.1	8.587	A
C-AB	23	6	627	0.037	23	0.0	0.0	5.968	A
C-A	705	176			705				
A-B	256	64			256				
A-C	538	135			538				

2024 DN, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.14	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	22	Stream B-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	2024 DN	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1000	100.000
B - Chidwell Lane		ONE HOUR	✓	157	100.000
C - Leeds Road (south)		ONE HOUR	✓	1173	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	121	879
	B - Chidwell Lane	116	0	41
	C - Leeds Road (south)	1155	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.11	9.48	0.1	A	38	56
B-A	0.39	18.36	0.6	C	106	160
C-AB	0.03	7.08	0.0	A	17	25
C-A					1060	1590
A-B					111	167
A-C					807	1210

Main Results for each time segment

07:15 - 07:30

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-C	31	8	519	0.059	31	0.0	0.1	7.368	A
B-A	87	22	430	0.203	86	0.0	0.3	10.767	B
C-AB	14	3	635	0.021	13	0.0	0.0	6.258	A
C-A	870	217			870				
A-B	91	23			91				
A-C	662	165			662				

07:30 - 07:45

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-C	37	9	484	0.076	37	0.1	0.1	8.045	A
B-A	104	26	388	0.269	104	0.3	0.4	13.038	B
C-AB	16	4	607	0.027	16	0.0	0.0	6.581	A
C-A	1038	260			1038				
A-B	109	27			109				
A-C	790	198			790				

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-C	45	11	426	0.106	45	0.1	0.1	9.446	A
B-A	128	32	330	0.388	127	0.4	0.6	18.181	C
C-AB	20	5	569	0.035	20	0.0	0.0	7.085	A
C-A	1272	318			1272				
A-B	133	33			133				
A-C	968	242			968				

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-C	45	11	425	0.106	45	0.1	0.1	9.477	A
B-A	128	32	330	0.388	128	0.6	0.6	18.356	C
C-AB	20	5	569	0.035	20	0.0	0.0	7.085	A
C-A	1272	318			1272				
A-B	133	33			133				
A-C	968	242			968				

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-C	37	9	483	0.076	37	0.1	0.1	8.072	A
B-A	104	26	388	0.269	105	0.6	0.4	13.171	B
C-AB	16	4	607	0.027	16	0.0	0.0	6.581	A
C-A	1038	260			1038				
A-B	109	27			109				
A-C	790	198			790				

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-C	31	8	518	0.060	31	0.1	0.1	7.393	A
B-A	87	22	430	0.203	88	0.4	0.3	10.863	B
C-AB	14	3	635	0.021	14	0.0	0.0	6.261	A
C-A	870	217			870				
A-B	91	23			91				
A-C	662	165			662				

2024 DN, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.40	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	61	Stream B-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	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1205	100.000
B - Chidwell Lane		ONE HOUR	✓	69	100.000
C - Leeds Road (south)		ONE HOUR	✓	955	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	461	744
	B - Chidwell Lane	42	0	27
	C - Leeds Road (south)	931	24	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	7.65	0.1	A	25	37
B-A	0.13	11.96	0.2	B	39	58
C-AB	0.05	7.21	0.1	A	22	33
C-A					854	1281
A-B					423	635
A-C					683	1024

Main Results for each time segment

16:15 - 16:30

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-C	20	5	563	0.036	20	0.0	0.0	6.636	A
B-A	32	8	444	0.071	31	0.0	0.1	8.890	A
C-AB	18	5	605	0.030	18	0.0	0.0	6.126	A
C-A	701	175			701				
A-B	347	87			347				
A-C	560	140			560				

16:30 - 16:45

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-C	24	6	537	0.045	24	0.0	0.0	7.024	A
B-A	38	9	406	0.093	38	0.1	0.1	9.968	A
C-AB	22	5	572	0.038	22	0.0	0.0	6.541	A
C-A	837	209			837				
A-B	414	104			414				
A-C	669	167			669				

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-C	30	7	500	0.059	30	0.0	0.1	7.650	A
B-A	46	12	353	0.131	46	0.1	0.2	11.947	B
C-AB	26	7	526	0.050	26	0.0	0.1	7.210	A
C-A	1025	256			1025				
A-B	508	127			508				
A-C	819	205			819				

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-C	30	7	500	0.059	30	0.1	0.1	7.652	A
B-A	46	12	353	0.131	46	0.2	0.2	11.960	B
C-AB	26	7	526	0.050	26	0.1	0.1	7.210	A
C-A	1025	256			1025				
A-B	508	127			508				
A-C	819	205			819				

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-C	24	6	536	0.045	24	0.1	0.0	7.032	A
B-A	38	9	406	0.093	38	0.2	0.1	9.980	A
C-AB	22	5	572	0.038	22	0.1	0.0	6.544	A
C-A	837	209			837				
A-B	414	104			414				
A-C	669	167			669				

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-C	20	5	562	0.036	20	0.0	0.0	6.643	A
B-A	32	8	444	0.071	32	0.1	0.1	8.905	A
C-AB	18	5	605	0.030	18	0.0	0.0	6.130	A
C-A	701	175			701				
A-B	347	87			347				
A-C	560	140			560				

2030 DN, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.02	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	18	Stream B-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
D5	2030 DN	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1184	100.000
B - Chidwell Lane		ONE HOUR	✓	154	100.000
C - Leeds Road (south)		ONE HOUR	✓	1215	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	168	1016
	B - Chidwell Lane	100	0	54
	C - Leeds Road (south)	1203	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.14	10.06	0.2	B	50	74
B-A	0.37	19.79	0.6	C	92	138
C-AB	0.02	7.52	0.0	A	11	17
C-A					1104	1656
A-B					154	231
A-C					932	1398

Main Results for each time segment

07:15 - 07:30

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-C	41	10	518	0.078	40	0.0	0.1	7.525	A
B-A	75	19	409	0.184	74	0.0	0.2	11.054	B
C-AB	9	2	608	0.015	9	0.0	0.0	6.486	A
C-A	906	226			906				
A-B	126	32			126				
A-C	765	191			765				

07:30 - 07:45

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-C	49	12	481	0.101	48	0.1	0.1	8.327	A
B-A	90	22	362	0.248	89	0.2	0.3	13.590	B
C-AB	11	3	575	0.019	11	0.0	0.0	6.884	A
C-A	1081	270			1081				
A-B	151	38			151				
A-C	913	228			913				

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-C	59	15	418	0.142	59	0.1	0.2	10.015	B
B-A	110	28	297	0.370	109	0.3	0.6	19.590	C
C-AB	13	3	530	0.025	13	0.0	0.0	7.522	A
C-A	1325	331			1325				
A-B	185	46			185				
A-C	1119	280			1119				

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-C	59	15	417	0.142	59	0.2	0.2	10.057	B
B-A	110	28	297	0.370	110	0.6	0.6	19.789	C
C-AB	13	3	530	0.025	13	0.0	0.0	7.522	A
C-A	1325	331			1325				
A-B	185	46			185				
A-C	1119	280			1119				

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-C	49	12	480	0.101	49	0.2	0.1	8.360	A
B-A	90	22	362	0.248	91	0.6	0.3	13.700	B
C-AB	11	3	575	0.019	11	0.0	0.0	6.887	A
C-A	1081	270			1081				
A-B	151	38			151				
A-C	913	228			913				

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-C	41	10	518	0.079	41	0.1	0.1	7.554	A
B-A	75	19	409	0.184	76	0.3	0.2	11.138	B
C-AB	9	2	608	0.015	9	0.0	0.0	6.487	A
C-A	906	226			906				
A-B	126	32			126				
A-C	765	191			765				

2030 DN, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.35	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	57	Stream B-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
D6	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1381	100.000
B - Chidwell Lane		ONE HOUR	✓	70	100.000
C - Leeds Road (south)		ONE HOUR	✓	891	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	591	790
	B - Chidwell Lane	40	0	30
	C - Leeds Road (south)	880	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	7.91	0.1	A	28	41
B-A	0.13	12.37	0.2	B	37	55
C-AB	0.02	7.55	0.0	A	10	15
C-A					808	1211
A-B					542	813
A-C					725	1087

Main Results for each time segment

16:15 - 16:30

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-C	23	6	557	0.041	22	0.0	0.0	6.736	A
B-A	30	8	434	0.069	30	0.0	0.1	9.088	A
C-AB	8	2	580	0.014	8	0.0	0.0	6.294	A
C-A	663	166			663				
A-B	445	111			445				
A-C	595	149			595				

16:30 - 16:45

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-C	27	7	528	0.051	27	0.0	0.1	7.179	A
B-A	36	9	395	0.091	36	0.1	0.1	10.228	B
C-AB	10	2	542	0.018	10	0.0	0.0	6.767	A
C-A	791	198			791				
A-B	531	133			531				
A-C	710	178			710				

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-C	33	8	488	0.068	33	0.1	0.1	7.904	A
B-A	44	11	341	0.129	44	0.1	0.1	12.352	B
C-AB	12	3	489	0.025	12	0.0	0.0	7.551	A
C-A	969	242			969				
A-B	651	163			651				
A-C	870	217			870				

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-C	33	8	488	0.068	33	0.1	0.1	7.909	A
B-A	44	11	341	0.129	44	0.1	0.2	12.365	B
C-AB	12	3	489	0.025	12	0.0	0.0	7.551	A
C-A	969	242			969				
A-B	651	163			651				
A-C	870	217			870				

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-C	27	7	528	0.051	27	0.1	0.1	7.185	A
B-A	36	9	395	0.091	36	0.2	0.1	10.244	B
C-AB	10	2	542	0.018	10	0.0	0.0	6.770	A
C-A	791	198			791				
A-B	531	133			531				
A-C	710	178			710				

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-C	23	6	556	0.041	23	0.1	0.0	6.744	A
B-A	30	8	434	0.069	30	0.1	0.1	9.105	A
C-AB	8	2	580	0.014	8	0.0	0.0	6.297	A
C-A	663	166			663				
A-B	445	111			445				
A-C	595	149			595				

2024 DS(A), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.15	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	21	Stream B-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
D7	2024 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1019	100.000
B - Chidwell Lane		ONE HOUR	✓	157	100.000
C - Leeds Road (south)		ONE HOUR	✓	1178	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	121	898
	B - Chidwell Lane	116	0	41
	C - Leeds Road (south)	1160	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.11	9.59	0.1	A	38	56
B-A	0.39	18.74	0.7	C	106	160
C-AB	0.04	7.14	0.0	A	17	25
C-A					1064	1597
A-B					111	167
A-C					824	1236

Main Results for each time segment

07:15 - 07:30

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-C	31	8	517	0.060	31	0.0	0.1	7.405	A
B-A	87	22	427	0.205	86	0.0	0.3	10.857	B
C-AB	14	3	632	0.021	13	0.0	0.0	6.286	A
C-A	873	218			873				
A-B	91	23			91				
A-C	676	169			676				

07:30 - 07:45

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-C	37	9	481	0.077	37	0.1	0.1	8.101	A
B-A	104	26	384	0.271	104	0.3	0.4	13.193	B
C-AB	16	4	604	0.027	16	0.0	0.0	6.617	A
C-A	1043	261			1043				
A-B	109	27			109				
A-C	807	202			807				

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-C	45	11	422	0.107	45	0.1	0.1	9.551	A
B-A	128	32	325	0.392	127	0.4	0.6	18.552	C
C-AB	20	5	565	0.035	20	0.0	0.0	7.136	A
C-A	1277	319			1277				
A-B	133	33			133				
A-C	989	247			989				

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-C	45	11	420	0.107	45	0.1	0.1	9.590	A
B-A	128	32	325	0.392	128	0.6	0.7	18.740	C
C-AB	20	5	565	0.035	20	0.0	0.0	7.136	A
C-A	1277	319			1277				
A-B	133	33			133				
A-C	989	247			989				

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-C	37	9	480	0.077	37	0.1	0.1	8.130	A
B-A	104	26	384	0.271	105	0.7	0.4	13.334	B
C-AB	16	4	604	0.027	16	0.0	0.0	6.618	A
C-A	1043	261			1043				
A-B	109	27			109				
A-C	807	202			807				

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-C	31	8	516	0.060	31	0.1	0.1	7.431	A
B-A	87	22	427	0.205	88	0.4	0.3	10.952	B
C-AB	14	3	632	0.021	14	0.0	0.0	6.289	A
C-A	873	218			873				
A-B	91	23			91				
A-C	676	169			676				

2024 DS(A), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.39	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	59	Stream B-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
D8	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1214	100.000
B - Chidwell Lane		ONE HOUR	✓	69	100.000
C - Leeds Road (south)		ONE HOUR	✓	968	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	461	753
	B - Chidwell Lane	42	0	27
	C - Leeds Road (south)	944	24	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	7.68	0.1	A	25	37
B-A	0.13	12.09	0.2	B	39	58
C-AB	0.05	7.24	0.1	A	22	33
C-A					866	1299
A-B					423	635
A-C					691	1036

Main Results for each time segment

16:15 - 16:30

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-C	20	5	561	0.036	20	0.0	0.0	6.650	A
B-A	32	8	442	0.072	31	0.0	0.1	8.937	A
C-AB	18	5	604	0.030	18	0.0	0.0	6.140	A
C-A	711	178			711				
A-B	347	87			347				
A-C	567	142			567				

16:30 - 16:45

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-C	24	6	535	0.045	24	0.0	0.0	7.044	A
B-A	38	9	403	0.094	38	0.1	0.1	10.037	B
C-AB	22	5	570	0.038	22	0.0	0.0	6.559	A
C-A	849	212			849				
A-B	414	104			414				
A-C	677	169			677				

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-C	30	7	498	0.060	30	0.0	0.1	7.678	A
B-A	46	12	350	0.132	46	0.1	0.2	12.073	B
C-AB	26	7	524	0.050	26	0.0	0.1	7.238	A
C-A	1039	260			1039				
A-B	508	127			508				
A-C	829	207			829				

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-C	30	7	498	0.060	30	0.1	0.1	7.682	A
B-A	46	12	350	0.132	46	0.2	0.2	12.086	B
C-AB	26	7	524	0.050	26	0.1	0.1	7.238	A
C-A	1039	260			1039				
A-B	508	127			508				
A-C	829	207			829				

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-C	24	6	535	0.045	24	0.1	0.0	7.049	A
B-A	38	9	403	0.094	38	0.2	0.1	10.053	B
C-AB	22	5	570	0.038	22	0.1	0.0	6.563	A
C-A	849	212			849				
A-B	414	104			414				
A-C	677	169			677				

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-C	20	5	561	0.036	20	0.0	0.0	6.657	A
B-A	32	8	442	0.072	32	0.1	0.1	8.952	A
C-AB	18	5	604	0.030	18	0.0	0.0	6.145	A
C-A	711	178			711				
A-B	347	87			347				
A-C	567	142			567				

2024 DS(A+B), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.16	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	18	Stream B-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
D9	2024 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1027	100.000
B - Chidwell Lane		ONE HOUR	✓	157	100.000
C - Leeds Road (south)		ONE HOUR	✓	1239	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	121	906
	B - Chidwell Lane	116	0	41
	C - Leeds Road (south)	1221	18	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.11	9.71	0.1	A	38	56
B-A	0.40	19.60	0.7	C	106	160
C-AB	0.04	7.16	0.0	A	17	25
C-A					1120	1681
A-B					111	167
A-C					831	1247

Main Results for each time segment

07:15 - 07:30

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-C	31	8	515	0.060	31	0.0	0.1	7.428	A
B-A	87	22	421	0.207	86	0.0	0.3	11.081	B
C-AB	14	3	631	0.021	13	0.0	0.0	6.298	A
C-A	919	230			919				
A-B	91	23			91				
A-C	682	171			682				

07:30 - 07:45

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-C	37	9	479	0.077	37	0.1	0.1	8.142	A
B-A	104	26	377	0.276	104	0.3	0.4	13.532	B
C-AB	16	4	602	0.027	16	0.0	0.0	6.632	A
C-A	1098	274			1098				
A-B	109	27			109				
A-C	814	204			814				

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-C	45	11	417	0.108	45	0.1	0.1	9.671	A
B-A	128	32	317	0.403	127	0.4	0.7	19.384	C
C-AB	20	5	563	0.035	20	0.0	0.0	7.158	A
C-A	1344	336			1344				
A-B	133	33			133				
A-C	998	249			998				

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-C	45	11	416	0.109	45	0.1	0.1	9.712	A
B-A	128	32	317	0.403	128	0.7	0.7	19.598	C
C-AB	20	5	563	0.035	20	0.0	0.0	7.158	A
C-A	1344	336			1344				
A-B	133	33			133				
A-C	998	249			998				

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-C	37	9	478	0.077	37	0.1	0.1	8.174	A
B-A	104	26	377	0.276	105	0.7	0.4	13.692	B
C-AB	16	4	602	0.027	16	0.0	0.0	6.633	A
C-A	1098	274			1098				
A-B	109	27			109				
A-C	814	204			814				

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-C	31	8	514	0.060	31	0.1	0.1	7.451	A
B-A	87	22	421	0.207	88	0.4	0.3	11.148	B
C-AB	14	3	631	0.021	14	0.0	0.0	6.301	A
C-A	919	230			919				
A-B	91	23			91				
A-C	682	171			682				

2024 DS(A+B), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.40	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	55	Stream B-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
D10	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1265	100.000
B - Chidwell Lane		ONE HOUR	✓	69	100.000
C - Leeds Road (south)		ONE HOUR	✓	975	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	461	804
	B - Chidwell Lane	42	0	27
	C - Leeds Road (south)	951	24	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	7.85	0.1	A	25	37
B-A	0.14	12.51	0.2	B	39	58
C-AB	0.05	7.40	0.1	A	22	33
C-A					873	1309
A-B					423	635
A-C					738	1107

Main Results for each time segment

16:15 - 16:30

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-C	20	5	555	0.037	20	0.0	0.0	6.731	A
B-A	32	8	435	0.073	31	0.0	0.1	9.099	A
C-AB	18	5	597	0.030	18	0.0	0.0	6.217	A
C-A	716	179			716				
A-B	347	87			347				
A-C	605	151			605				

16:30 - 16:45

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-C	24	6	527	0.046	24	0.0	0.0	7.153	A
B-A	38	9	395	0.096	38	0.1	0.1	10.273	B
C-AB	22	5	562	0.038	22	0.0	0.0	6.665	A
C-A	855	214			855				
A-B	414	104			414				
A-C	723	181			723				

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-C	30	7	489	0.061	30	0.0	0.1	7.841	A
B-A	46	12	340	0.136	46	0.1	0.2	12.494	B
C-AB	26	7	513	0.052	26	0.0	0.1	7.396	A
C-A	1047	262			1047				
A-B	508	127			508				
A-C	885	221			885				

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-C	30	7	489	0.061	30	0.1	0.1	7.846	A
B-A	46	12	340	0.136	46	0.2	0.2	12.509	B
C-AB	26	7	513	0.052	26	0.1	0.1	7.396	A
C-A	1047	262			1047				
A-B	508	127			508				
A-C	885	221			885				

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-C	24	6	527	0.046	24	0.1	0.0	7.162	A
B-A	38	9	395	0.096	38	0.2	0.1	10.288	B
C-AB	22	5	562	0.038	22	0.1	0.0	6.669	A
C-A	855	214			855				
A-B	414	104			414				
A-C	723	181			723				

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-C	20	5	555	0.037	20	0.0	0.0	6.742	A
B-A	32	8	435	0.073	32	0.1	0.1	9.111	A
C-AB	18	5	597	0.030	18	0.0	0.0	6.221	A
C-A	716	179			716				
A-B	347	87			347				
A-C	605	151			605				

2030 DS(A), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		1.04	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	16	Stream B-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
D11	2030 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1218	100.000
B - Chidwell Lane		ONE HOUR	✓	154	100.000
C - Leeds Road (south)		ONE HOUR	✓	1224	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	168	1050
	B - Chidwell Lane	100	0	54
	C - Leeds Road (south)	1212	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.15	10.29	0.2	B	50	74
B-A	0.38	20.60	0.6	C	92	138
C-AB	0.03	7.63	0.0	A	11	17
C-A					1112	1668
A-B					154	231
A-C					963	1445

Main Results for each time segment

07:15 - 07:30

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-C	41	10	514	0.079	40	0.0	0.1	7.596	A
B-A	75	19	404	0.186	74	0.0	0.2	11.224	B
C-AB	9	2	603	0.015	9	0.0	0.0	6.539	A
C-A	912	228			912				
A-B	126	32			126				
A-C	790	198			790				

07:30 - 07:45

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-C	49	12	475	0.102	48	0.1	0.1	8.436	A
B-A	90	22	356	0.252	89	0.2	0.3	13.878	B
C-AB	11	3	570	0.019	11	0.0	0.0	6.956	A
C-A	1090	272			1090				
A-B	151	38			151				
A-C	944	236			944				

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-C	59	15	410	0.145	59	0.1	0.2	10.246	B
B-A	110	28	290	0.380	109	0.3	0.6	20.386	C
C-AB	13	3	523	0.025	13	0.0	0.0	7.627	A
C-A	1334	334			1334				
A-B	185	46			185				
A-C	1156	289			1156				

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-C	59	15	409	0.145	59	0.2	0.2	10.292	B
B-A	110	28	290	0.380	110	0.6	0.6	20.604	C
C-AB	13	3	523	0.025	13	0.0	0.0	7.627	A
C-A	1334	334			1334				
A-B	185	46			185				
A-C	1156	289			1156				

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-C	49	12	474	0.102	49	0.2	0.1	8.474	A
B-A	90	22	356	0.252	91	0.6	0.4	14.025	B
C-AB	11	3	570	0.019	11	0.0	0.0	6.956	A
C-A	1090	272			1090				
A-B	151	38			151				
A-C	944	236			944				

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-C	41	10	513	0.079	41	0.1	0.1	7.623	A
B-A	75	19	404	0.186	76	0.4	0.2	11.312	B
C-AB	9	2	603	0.015	9	0.0	0.0	6.542	A
C-A	912	228			912				
A-B	126	32			126				
A-C	790	198			790				

2030 DS(A), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		0.35	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	54	Stream B-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
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1397	100.000
B - Chidwell Lane		ONE HOUR	✓	70	100.000
C - Leeds Road (south)		ONE HOUR	✓	916	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	591	806
	B - Chidwell Lane	40	0	30
	C - Leeds Road (south)	905	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	7.97	0.1	A	28	41
B-A	0.13	12.61	0.2	B	37	55
C-AB	0.02	7.60	0.0	A	10	15
C-A					830	1246
A-B					542	813
A-C					740	1109

Main Results for each time segment

16:15 - 16:30

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-C	23	6	555	0.041	22	0.0	0.0	6.763	A
B-A	30	8	430	0.070	30	0.0	0.1	9.178	A
C-AB	8	2	578	0.014	8	0.0	0.0	6.319	A
C-A	681	170			681				
A-B	445	111			445				
A-C	607	152			607				

16:30 - 16:45

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-C	27	7	526	0.051	27	0.0	0.1	7.216	A
B-A	36	9	390	0.092	36	0.1	0.1	10.365	B
C-AB	10	2	539	0.018	10	0.0	0.0	6.802	A
C-A	814	203			814				
A-B	531	133			531				
A-C	725	181			725				

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-C	33	8	485	0.068	33	0.1	0.1	7.961	A
B-A	44	11	335	0.131	44	0.1	0.2	12.597	B
C-AB	12	3	485	0.025	12	0.0	0.0	7.604	A
C-A	996	249			996				
A-B	651	163			651				
A-C	887	222			887				

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-C	33	8	485	0.068	33	0.1	0.1	7.965	A
B-A	44	11	335	0.131	44	0.2	0.2	12.613	B
C-AB	12	3	485	0.025	12	0.0	0.0	7.604	A
C-A	996	249			996				
A-B	651	163			651				
A-C	887	222			887				

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-C	27	7	525	0.051	27	0.1	0.1	7.222	A
B-A	36	9	390	0.092	36	0.2	0.1	10.382	B
C-AB	10	2	539	0.018	10	0.0	0.0	6.802	A
C-A	814	203			814				
A-B	531	133			531				
A-C	725	181			725				

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-C	23	6	554	0.041	23	0.1	0.0	6.773	A
B-A	30	8	430	0.070	30	0.1	0.1	9.195	A
C-AB	8	2	578	0.014	8	0.0	0.0	6.319	A
C-A	681	170			681				
A-B	445	111			445				
A-C	607	152			607				

2030 DS(A+B), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		31.42	D

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-17	Stream B-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
D13	2030 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1455	100.000
B - Chidwell Lane		ONE HOUR	✓	402	100.000
C - Leeds Road (south)		ONE HOUR	✓	1503	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	168	1287
	B - Chidwell Lane	98	0	304
	C - Leeds Road (south)	1419	84	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	0	6
	B - Chidwell Lane	3	0	0
	C - Leeds Road (south)	7	8	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	1.13	242.18	23.8	F	279	418
B-A	1.08	317.43	9.1	F	90	135
C-AB	0.20	10.21	0.3	B	77	116
C-A					1302	1953
A-B					154	231
A-C					1181	1771

Main Results for each time segment

07:15 - 07:30

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-C	229	57	511	0.448	226	0.0	0.8	12.504	B
B-A	74	18	282	0.262	72	0.0	0.4	17.580	C
C-AB	63	16	570	0.111	63	0.0	0.1	7.662	A
C-A	1068	267			1068				
A-B	126	32			126				
A-C	969	242			969				

07:30 - 07:45

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-C	273	68	442	0.618	270	0.8	1.5	20.599	C
B-A	88	22	206	0.428	87	0.4	0.7	30.661	D
C-AB	76	19	529	0.143	75	0.1	0.2	8.560	A
C-A	1276	319			1276				
A-B	151	38			151				
A-C	1157	289			1157				

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-C	335	84	307	1.091	289	1.5	13.0	116.570	F
B-A	108	27	100	1.082	87	0.7	6.0	188.493	F
C-AB	92	23	473	0.195	92	0.2	0.3	10.193	B
C-A	1562	391			1562				
A-B	185	46			185				
A-C	1417	354			1417				

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-C	335	84	295	1.134	291	13.0	23.8	242.176	F
B-A	108	27	101	1.073	95	6.0	9.1	317.430	F
C-AB	92	23	473	0.195	92	0.3	0.3	10.209	B
C-A	1562	391			1562				
A-B	185	46			185				
A-C	1417	354			1417				

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-C	273	68	373	0.733	353	23.8	3.9	148.883	F
B-A	88	22	128	0.689	112	9.1	3.2	203.000	F
C-AB	76	19	529	0.143	76	0.3	0.2	8.583	A
C-A	1276	319			1276				
A-B	151	38			151				
A-C	1157	289			1157				

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-C	229	57	498	0.460	241	3.9	0.9	14.650	B
B-A	74	18	276	0.267	85	3.2	0.4	20.475	C
C-AB	63	16	570	0.111	63	0.2	0.1	7.685	A
C-A	1068	267			1068				
A-B	126	32			126				
A-C	969	242			969				

2030 DS(A+B), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way		2.19	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-3	Stream B-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
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (north)		ONE HOUR	✓	1812	100.000
B - Chidwell Lane		ONE HOUR	✓	191	100.000
C - Leeds Road (south)		ONE HOUR	✓	1526	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	591	1221
	B - Chidwell Lane	40	0	151
	C - Leeds Road (south)	1331	195	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Leeds Road (north)	B - Chidwell Lane	C - Leeds Road (south)
From	A - Leeds Road (north)	0	1	3
	B - Chidwell Lane	2	0	0
	C - Leeds Road (south)	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.42	15.44	0.7	C	139	208
B-A	0.33	40.48	0.5	E	37	55
C-AB	0.54	19.40	1.1	C	179	269
C-A					1221	1831
A-B					542	813
A-C					1120	1681

Main Results for each time segment

16:15 - 16:30

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-C	114	28	529	0.215	113	0.0	0.3	8.629	A
B-A	30	8	277	0.109	30	0.0	0.1	14.817	B
C-AB	147	37	519	0.283	145	0.0	0.4	9.607	A
C-A	1002	251			1002				
A-B	445	111			445				
A-C	919	230			919				

16:30 - 16:45

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-C	136	34	482	0.282	135	0.3	0.4	10.373	B
B-A	36	9	218	0.165	36	0.1	0.2	20.089	C
C-AB	175	44	468	0.374	175	0.4	0.6	12.224	B
C-A	1197	299			1197				
A-B	531	133			531				
A-C	1098	274			1098				

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-C	166	42	401	0.414	165	0.4	0.7	15.159	C
B-A	44	11	135	0.326	43	0.2	0.5	39.359	E
C-AB	216	54	402	0.539	214	0.6	1.1	18.995	C
C-A	1464	366			1464				
A-B	651	163			651				
A-C	1344	336			1344				

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-C	166	42	399	0.416	166	0.7	0.7	15.440	C
B-A	44	11	135	0.327	44	0.5	0.5	40.481	E
C-AB	216	54	402	0.539	216	1.1	1.1	19.399	C
C-A	1464	366			1464				
A-B	651	163			651				
A-C	1344	336			1344				

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-C	136	34	481	0.282	137	0.7	0.4	10.513	B
B-A	36	9	217	0.165	37	0.5	0.2	20.474	C
C-AB	175	44	468	0.374	177	1.1	0.6	12.468	B
C-A	1197	299			1197				
A-B	531	133			531				
A-C	1098	274			1098				

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-C	114	28	528	0.215	114	0.4	0.3	8.706	A
B-A	30	8	276	0.109	30	0.2	0.1	14.950	B
C-AB	147	37	519	0.283	148	0.6	0.4	9.730	A
C-A	1002	251			1002				
A-B	445	111			445				
A-C	919	230			919				