

Junctions 9				
PICADY 9 - Priority Intersection Module				
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Path: O:\Wakefield Road, Athersley\ANALYSIS\CAPACITY\Priority Junctions\Site Access\180426 Amended Main Line width

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«Site Access - Design 2022, AM

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Summary of junction performance

	AM			
	Queue (PCU)	Delay (s)	RFC	LOS
Site Access - Design 2022				
Stream B-AC	0.1	9.68	0.12	A
Stream C-B	0.0	6.41	0.04	A

There are warnings associated with this model run - see the 'Data Errors and Warnings' tables.

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

File summary

File Description

Title	SITE ACCESS
Location	
Site number	
Date	25/09/2017
Version	
Status	
Identifier	
Client	
Jobnumber	
Enumerator	NJ
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	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Analysis Set Details

ID	Name	Network flow scaling factor (%)
A1	Site Access	100.000

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	Design 2022	AM	ONE HOUR	07:30	09:00	15

Site Access - Design 2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	0.58	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Wakefield Rd S		Major
B	Site Access		Minor
C	Wakefield Rd N		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Wakefield Rd N	6.20		✓	3.00	186.0		-

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	3.74	26	20

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	533	0.096	0.243	0.153	0.347
1	B-C	684	0.104	0.263	-	-
1	C-B	741	0.285	0.285	-	-

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

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Wakefield Rd S		✓	489	100.000
B - Site Access		✓	47	100.000
C - Wakefield Rd N		✓	519	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Wakefield Rd S	B - Site Access	C - Wakefield Rd N
From	A - Wakefield Rd S	0	15	474
	B - Site Access	18	0	29
	C - Wakefield Rd N	495	24	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Wakefield Rd S	B - Site Access	C - Wakefield Rd N
From	A - Wakefield Rd S	0	0	0
	B - Site Access	0	0	0
	C - Wakefield Rd N	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	9.68	0.1	A
C-A				
C-B	0.04	6.41	0.0	A
A-B				
A-C				

Main Results for each time segment

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	35	487	0.073	35	0.1	7.953	A
C-A	373			373			
C-B	18	636	0.028	18	0.0	5.822	A
A-B	11			11			
A-C	357			357			

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	42	461	0.092	42	0.1	8.592	A
C-A	445			445			
C-B	22	616	0.035	22	0.0	6.056	A
A-B	13			13			
A-C	426			426			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	52	424	0.122	52	0.1	9.674	A
C-A	545			545			
C-B	26	588	0.045	26	0.0	6.412	A
A-B	17			17			
A-C	522			522			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	52	424	0.122	52	0.1	9.682	A
C-A	545			545			
C-B	26	588	0.045	26	0.0	6.412	A
A-B	17			17			
A-C	522			522			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	42	461	0.092	42	0.1	8.601	A
C-A	445			445			
C-B	22	616	0.035	22	0.0	6.059	A
A-B	13			13			
A-C	426			426			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	35	487	0.073	35	0.1	7.966	A
C-A	373			373			
C-B	18	636	0.028	18	0.0	5.825	A
A-B	11			11			
A-C	357			357			