Junctions 9

ARCADY 9 - Roundabout Module

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Filename: North End Road No Mit.j9
Path: C:\Users\AliceHowse\Highgate Transportation\HTp - Documents\2400 - Projects\2413 - Yapton Road, Barnham\Modelling\Junctions 9\North End Road_B2233 Mini Roundabout\North End Road Modelling (No Mit)
Report generation date: 05/01/2026 12:36:22

»2026 Base (core), AM
»2026 Base (core), PM
»2026 Base (core) + Com Dev, AM
»2026 Base (core) + Com Dev, PM
»2026 Base (core) + Com Dev + Dev, AM
»2026 Base (core) + Com Dev + Dev, PM
»2031 Base (core), AM
»2031 Base (core), PM
»2031 Base (behavioural), AM
»2031 Base (behavioural), PM
»2031 Base (core) + Com Dev, AM
»2031 Base (core) + Com Dev, PM
»2031 Base (behavioural) + Com Dev, AM
»2031 Base (behavioural) + Com Dev, PM
»2031 Base (core) + Com Dev + Dev, AM
»2031 Base (core) + Com Dev + Dev, PM
»2031 Base (behavioural) + Com Dev + Dev, AM
»2031 Base (behavioural) + Com Dev + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2026 Base (core)									
Arm 1	D1	0.4	8.89	0.31	A	D2	1.8	17.96	0.65	C
Arm 2		1.6	9.11	0.62	A		0.6	5.38	0.36	A
Arm 3		0.9	8.34	0.48	A		1.0	8.10	0.51	A
	2026 Base (core) + Com Dev									
Arm 1	D3	1.0	13.66	0.51	B	D4	9.4	76.38	0.94	F
Arm 2		4.8	20.74	0.84	C		1.3	8.07	0.57	A
Arm 3		2.4	15.40	0.71	C		2.6	15.11	0.73	C
	2026 Base (core) + Com Dev + Dev									
Arm 1	D5	1.1	14.49	0.53	B	D6	10.3	83.20	0.95	F
Arm 2		5.2	22.39	0.85	C		1.5	8.62	0.60	A
Arm 3		2.9	17.83	0.75	C		2.8	16.05	0.74	C
	2031 Base (core)									
Arm 1	D7	0.5	9.25	0.33	A	D8	2.1	20.77	0.69	C
Arm 2		1.9	9.99	0.66	A		0.6	5.55	0.38	A
Arm 3		1.0	8.83	0.51	A		1.1	8.60	0.54	A
	2031 Base (behavioural)									
Arm 1	D9	0.4	8.94	0.31	A	D10	1.8	18.50	0.65	C
Arm 2		1.7	9.24	0.63	A		0.6	5.41	0.37	A
Arm 3		0.9	8.40	0.48	A		1.1	8.23	0.52	A
	2031 Base (core) + Com Dev									
Arm 1	D11	1.2	15.05	0.55	C	D12	15.8	117.75	1.00	F
Arm 2		6.3	26.61	0.87	D		1.5	8.78	0.61	A
Arm 3		3.1	18.59	0.76	C		3.2	17.65	0.77	C
	2031 Base (behavioural) + Com Dev									
Arm 1	D13	1.1	14.21	0.52	B	D14	11.1	87.76	0.96	F
Arm 2		5.1	22.21	0.85	C		1.4	8.47	0.59	A

Arm 3		2.7	16.81	0.74	C		2.8	16.14	0.75	C
	2031 Base (core) + Com Dev + Dev									
Arm 1	D15	1.2	16.00	0.56	C	D16	17.8	130.36	1.02	F
Arm 2		7.0	29.11	0.89	D		1.7	9.43	0.63	A
Arm 3		3.8	22.08	0.80	C		3.5	18.90	0.78	C
	2031 Base (behavioural) + Com Dev + Dev									
Arm 1	D17	1.1	15.08	0.54	C	D18	12.3	96.78	0.98	F
Arm 2		5.6	23.97	0.86	C		1.6	9.08	0.62	A
Arm 3		3.3	19.69	0.78	C		3.1	17.15	0.76	C

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

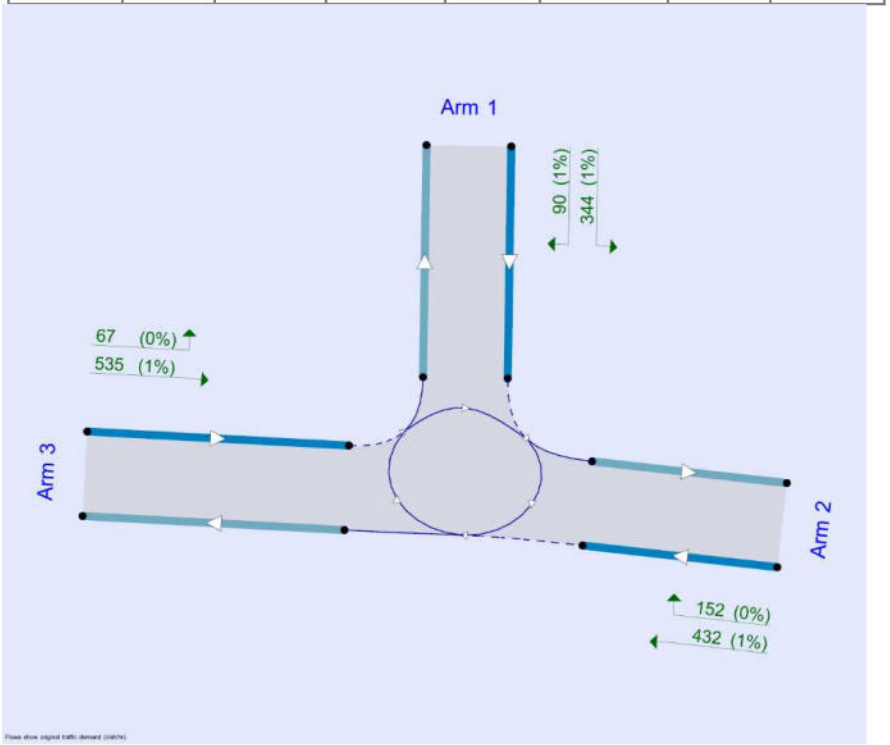
File summary

File Description

Title	
Location	B2233 Mini Roundabout\North End Road
Site number	
Date	05/01/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AH
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	Veh	Veh	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Mini-roundabout model	Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
JUNCTIONS 9			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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2026 Base (core), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	8.83	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Arms

Arms

Arm	Name	Description
1	North End Road	North End Road
2	B2233 East	B2233 East
3	B2233 West	B2233 West

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	2.20	2.20	5.27	2.9	9.57	6.90	0.0	✓
2	3.75	3.75	4.50	8.5	15.35	15.28	0.0	✓
3	3.50	3.50	3.91	0.3	11.26	9.34	0.0	✓

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.476	780
2	0.558	1102
3	0.502	964

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

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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	164	100.000
2		✓	594	100.000
3		✓	362	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	103	60
	2	186	0	408
	3	65	297	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	6	5
	2	0	0	2
	3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.31	8.89	0.4	A
2	0.62	9.11	1.6	A
3	0.48	8.34	0.9	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	123	222	635	0.195	123	0.2	7.016	A
2	447	46	1061	0.421	444	0.7	5.810	A
3	273	140	862	0.316	271	0.5	6.069	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	147	266	614	0.240	147	0.3	7.708	A
2	534	55	1056	0.506	533	1.0	6.868	A
3	325	168	849	0.383	325	0.6	6.864	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	181	326	586	0.308	180	0.4	8.856	A
2	654	67	1049	0.624	652	1.6	9.006	A
3	399	205	830	0.480	397	0.9	8.288	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	181	327	586	0.308	181	0.4	8.888	A
2	654	67	1049	0.624	654	1.6	9.114	A
3	399	206	830	0.480	399	0.9	8.339	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	147	268	613	0.240	148	0.3	7.745	A
2	534	55	1056	0.506	536	1.0	6.965	A
3	325	169	848	0.384	327	0.6	6.917	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	123	224	634	0.195	124	0.2	7.065	A
2	447	46	1061	0.422	448	0.7	5.891	A
3	273	141	861	0.316	273	0.5	6.125	A

2026 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	10.22	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	330	100.000
2		✓	349	100.000
3		✓	418	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	278	52
	2	92	0	257
	3	29	388	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	2
	2	0	0	2
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.65	17.96	1.8	C
2	0.36	5.38	0.6	A
3	0.51	8.10	1.0	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	248	291	628	0.396	246	0.6	9.366	A
2	263	39	1064	0.247	261	0.3	4.477	A
3	315	69	921	0.342	313	0.5	5.901	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	297	349	600	0.494	295	1.0	11.755	B
2	314	47	1060	0.296	313	0.4	4.821	A
3	376	83	914	0.411	375	0.7	6.674	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	363	427	564	0.645	360	1.7	17.433	C
2	384	58	1054	0.365	384	0.6	5.366	A
3	460	101	905	0.509	459	1.0	8.053	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	363	428	563	0.645	363	1.8	17.963	C
2	384	58	1054	0.365	384	0.6	5.377	A
3	460	101	905	0.509	460	1.0	8.101	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	297	351	600	0.495	300	1.0	12.128	B
2	314	48	1059	0.296	314	0.4	4.835	A
3	376	83	914	0.411	377	0.7	6.726	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	248	294	627	0.397	250	0.7	9.589	A
2	263	40	1064	0.247	263	0.3	4.497	A
3	315	69	920	0.342	315	0.5	5.959	A

2026 Base (core) + Com Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	17.78	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	252	100.000
2		✓	783	100.000
3		✓	524	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	158	93
	2	242	0	541
	3	116	408	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.51	13.66	1.0	B
2	0.84	20.74	4.8	C
3	0.71	15.40	2.4	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	304	609	0.312	188	0.4	8.514	A
2	589	70	1051	0.561	584	1.3	7.636	A
3	394	181	851	0.463	391	0.8	7.763	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	365	580	0.390	226	0.6	10.136	B
2	704	84	1043	0.675	701	2.0	10.424	B
3	471	218	834	0.565	469	1.3	9.829	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	277	446	542	0.512	276	1.0	13.435	B
2	862	103	1032	0.835	852	4.5	18.967	C
3	577	264	811	0.711	572	2.3	14.837	B

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	277	449	541	0.513	277	1.0	13.657	B
2	862	103	1032	0.835	861	4.8	20.744	C
3	577	267	809	0.712	576	2.4	15.404	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	370	578	0.392	228	0.7	10.332	B
2	704	85	1043	0.675	714	2.2	11.292	B
3	471	222	832	0.566	475	1.3	10.215	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	308	607	0.313	191	0.5	8.657	A
2	589	71	1051	0.561	593	1.3	7.923	A
3	394	184	850	0.464	396	0.9	7.963	A

2026 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	29.77	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	430	100.000
2		✓	539	100.000
3		✓	577	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	0	341	89
2	151	0	388
3	66	510	1

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	1	1
2	0	0	1
3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.94	76.38	9.4	F
2	0.57	8.07	1.3	A
3	0.73	15.11	2.6	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	381	589	0.550	319	1.2	13.140	B
2	406	67	1057	0.384	403	0.6	5.488	A
3	434	113	899	0.483	431	0.9	7.629	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	458	552	0.700	383	2.2	20.716	C
2	485	80	1049	0.462	484	0.8	6.353	A
3	519	135	888	0.584	517	1.4	9.656	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	559	505	0.938	452	7.5	54.117	F
2	593	95	1041	0.570	592	1.3	7.976	A
3	635	166	873	0.728	631	2.5	14.587	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	562	503	0.942	466	9.4	76.381	F
2	593	97	1040	0.571	593	1.3	8.066	A
3	635	166	873	0.728	635	2.6	15.109	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	463	550	0.703	414	2.6	30.732	D
2	485	87	1046	0.463	486	0.9	6.457	A

3	519	136	888	0.585	523	1.4	10.008	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	386	586	0.552	329	1.3	14.260	B
2	406	69	1056	0.384	407	0.6	5.558	A
3	434	114	899	0.483	436	1.0	7.821	A

2026 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	19.54	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	252	100.000
2		✓	795	100.000
3		✓	553	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	158	93
	2	242	0	553
	3	116	436	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	4	3
2	0	0	1
3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.53	14.49	1.1	B
2	0.85	22.39	5.2	C
3	0.75	17.83	2.9	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	326	599	0.317	188	0.5	8.724	A
2	599	70	1051	0.570	593	1.3	7.782	A
3	416	182	851	0.489	412	0.9	8.140	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	391	568	0.399	226	0.7	10.496	B
2	715	84	1043	0.685	712	2.1	10.754	B
3	497	218	833	0.596	495	1.4	10.573	B

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	278	476	528	0.526	276	1.1	14.200	B
2	876	103	1032	0.848	864	4.9	20.184	C
3	609	265	810	0.751	603	2.8	16.918	C

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	278	480	526	0.528	278	1.1	14.487	B
2	876	103	1032	0.848	874	5.2	22.387	C
3	609	268	809	0.752	608	2.9	17.831	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	397	565	0.401	228	0.7	10.736	B
2	715	85	1043	0.686	727	2.3	11.785	B
3	497	222	831	0.598	502	1.5	11.132	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	330	597	0.318	191	0.5	8.886	A
2	599	71	1051	0.570	602	1.4	8.097	A

3	416	184	850	0.490	418	1.0	8.387	A

2026 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	31.70	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	430	100.000
2		✓	565	100.000
3		✓	590	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	341	89
	2	151	0	414
	3	67	522	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	1	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.95	83.20	10.3	F
2	0.60	8.62	1.5	A
3	0.74	16.05	2.8	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	390	584	0.554	319	1.2	13.339	B
2	425	67	1057	0.403	423	0.7	5.655	A
3	444	113	899	0.494	440	1.0	7.784	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	468	547	0.706	382	2.2	21.294	C
2	508	80	1049	0.484	507	0.9	6.626	A
3	530	135	888	0.597	528	1.4	9.958	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	571	499	0.949	450	8.0	57.312	F
2	622	94	1041	0.597	620	1.5	8.502	A
3	650	166	873	0.744	644	2.7	15.411	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	576	497	0.953	464	10.3	83.197	F
2	622	97	1040	0.598	622	1.5	8.616	A
3	650	166	873	0.744	649	2.8	16.052	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	475	544	0.710	417	2.7	33.489	D
2	508	87	1045	0.486	510	1.0	6.754	A
3	530	136	888	0.598	536	1.5	10.372	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	396	582	0.556	329	1.3	14.548	B
2	425	69	1055	0.403	426	0.7	5.735	A
3	444	114	899	0.494	446	1.0	7.995	A

2031 Base (core), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	9.51	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	172	100.000
2		✓	624	100.000
3		✓	379	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	1	108	63
2	196	0	428
3	68	311	0

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	6	5
2	0	0	2
3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.33	9.25	0.5	A
2	0.66	9.99	1.9	A
3	0.51	8.83	1.0	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	129	233	630	0.206	128	0.3	7.166	A
2	470	48	1060	0.443	467	0.8	6.038	A
3	285	147	859	0.332	283	0.5	6.238	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	155	279	608	0.254	154	0.3	7.929	A
2	561	57	1054	0.532	560	1.1	7.260	A
3	341	177	844	0.404	340	0.7	7.128	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	189	341	579	0.327	189	0.5	9.216	A
2	687	70	1047	0.656	684	1.9	9.841	A
3	417	216	825	0.506	416	1.0	8.764	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	189	342	578	0.327	189	0.5	9.255	A
2	687	70	1047	0.656	687	1.9	9.995	A
3	417	217	825	0.506	417	1.0	8.832	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	155	281	607	0.255	155	0.3	7.974	A
2	561	58	1054	0.532	564	1.2	7.387	A
3	341	178	844	0.404	342	0.7	7.194	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	129	235	629	0.206	130	0.3	7.222	A
2	470	48	1060	0.443	471	0.8	6.134	A
3	285	149	858	0.333	286	0.5	6.303	A

2031 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	11.31	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	346	100.000
2		✓	367	100.000
3		✓	439	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	292	54
	2	97	0	270
	3	31	407	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	2
	2	0	0	2
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.69	20.77	2.1	C
2	0.38	5.55	0.6	A
3	0.54	8.60	1.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	305	621	0.419	258	0.7	9.832	A
2	276	41	1063	0.260	275	0.3	4.558	A
3	331	73	919	0.360	328	0.6	6.073	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	366	592	0.525	310	1.1	12.664	B
2	330	49	1059	0.312	330	0.4	4.934	A
3	395	87	912	0.433	394	0.8	6.953	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	448	554	0.688	377	2.1	19.909	C
2	404	60	1053	0.384	403	0.6	5.537	A
3	483	107	902	0.536	482	1.1	8.539	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	449	553	0.689	381	2.1	20.773	C
2	404	61	1052	0.384	404	0.6	5.551	A
3	483	107	902	0.536	483	1.1	8.600	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	368	591	0.526	315	1.1	13.206	B
2	330	50	1058	0.312	331	0.5	4.952	A
3	395	87	911	0.433	396	0.8	7.005	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	308	620	0.420	262	0.7	10.110	B
2	276	42	1063	0.260	277	0.4	4.581	A
3	331	73	919	0.360	331	0.6	6.141	A

2031 Base (behavioural), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	8.92	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	165	100.000
2		✓	599	100.000
3		✓	364	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
		1	2	3
	1	1	104	60
	2	188	0	411
	3	65	299	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		1	2	3
	1	0	6	5
	2	0	0	2
	3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.31	8.94	0.4	A
2	0.63	9.24	1.7	A
3	0.48	8.40	0.9	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	124	224	634	0.196	123	0.2	7.036	A
2	451	46	1061	0.425	448	0.7	5.835	A
3	274	141	861	0.318	272	0.5	6.092	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	268	613	0.242	148	0.3	7.737	A
2	538	55	1056	0.510	537	1.0	6.927	A
3	327	170	848	0.386	327	0.6	6.899	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	182	328	585	0.311	181	0.4	8.903	A
2	660	67	1049	0.629	657	1.7	9.130	A
3	401	207	829	0.483	400	0.9	8.352	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	182	329	585	0.311	182	0.4	8.936	A
2	660	67	1049	0.629	659	1.7	9.242	A
3	401	208	829	0.483	401	0.9	8.403	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	270	612	0.242	149	0.3	7.774	A
2	538	55	1056	0.510	541	1.1	7.026	A
3	327	171	847	0.386	328	0.6	6.954	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	124	226	633	0.196	125	0.2	7.083	A
2	451	46	1061	0.425	452	0.7	5.925	A
3	274	143	861	0.318	275	0.5	6.151	A

2031 Base (behavioural), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	10.43	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	333	100.000
2		✓	353	100.000
3		✓	424	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	0	281	52
2	93	0	260
3	30	393	1

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	2	2
2	0	0	2
3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.65	18.50	1.8	C
2	0.37	5.41	0.6	A
3	0.52	8.23	1.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	295	626	0.400	248	0.7	9.462	A
2	266	39	1064	0.250	264	0.3	4.494	A
3	319	70	920	0.347	317	0.5	5.949	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	354	598	0.500	298	1.0	11.939	B
2	317	47	1060	0.299	317	0.4	4.844	A
3	381	84	913	0.417	380	0.7	6.745	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	433	561	0.653	363	1.8	17.915	C
2	389	58	1054	0.369	388	0.6	5.402	A
3	467	102	904	0.516	465	1.0	8.182	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	434	560	0.654	366	1.8	18.500	C
2	389	58	1054	0.369	389	0.6	5.412	A
3	467	102	904	0.516	467	1.1	8.233	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	355	597	0.501	303	1.0	12.340	B
2	317	48	1059	0.300	318	0.4	4.860	A

3	381	84	913	0.417	382	0.7	6.801	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	297	625	0.401	252	0.7	9.696	A
2	266	40	1064	0.250	266	0.3	4.516	A
3	319	70	920	0.347	320	0.5	6.008	A

2031 Base (core) + Com Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	22.00	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	260	100.000
2		✓	819	100.000
3		✓	556	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	163	96
	2	252	0	567
	3	119	437	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	4	3
2	0	0	1
3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.55	15.05	1.2	C
2	0.87	26.61	6.3	D
3	0.76	18.59	3.1	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	326	598	0.327	194	0.5	8.861	A
2	616	72	1050	0.587	611	1.4	8.101	A
3	419	188	848	0.494	415	1.0	8.243	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	392	568	0.412	233	0.7	10.736	B
2	736	87	1042	0.707	732	2.3	11.499	B
3	500	226	830	0.603	498	1.5	10.787	B

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	477	527	0.543	285	1.1	14.721	B
2	901	106	1031	0.875	887	5.8	23.127	C
3	613	274	806	0.760	607	2.9	17.537	C

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	481	525	0.545	286	1.2	15.052	C
2	901	106	1030	0.875	900	6.3	26.613	D
3	613	277	804	0.762	612	3.1	18.593	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	398	565	0.414	236	0.7	11.004	B
2	736	88	1041	0.707	751	2.5	13.008	B
3	500	232	827	0.605	506	1.6	11.422	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	331	596	0.329	197	0.5	9.034	A
2	616	73	1049	0.587	621	1.5	8.480	A

3	419	191	847	0.495	421	1.0	8.507	A

2031 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	42.13	E

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	446	100.000
2		✓	572	100.000
3		✓	606	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	355	91
	2	156	0	416
	3	68	537	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	1.00	117.75	15.8	F

2	0.61	8.78	1.5	A
3	0.77	17.65	3.2	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	402	579	0.580	330	1.3	14.204	B
2	431	68	1056	0.408	428	0.7	5.709	A
3	457	117	897	0.509	452	1.0	8.021	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	482	541	0.741	396	2.6	23.977	C
2	514	82	1048	0.491	513	0.9	6.713	A
3	545	140	886	0.615	543	1.6	10.433	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	491	588	491	1.000	457	11.0	72.212	F
2	630	95	1041	0.605	628	1.5	8.659	A
3	668	171	870	0.767	662	3.1	16.775	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	491	593	488	1.005	471	15.8	117.751	F
2	630	98	1040	0.606	630	1.5	8.782	A
3	668	172	870	0.767	667	3.2	17.650	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	490	537	0.746	451	3.4	54.201	F
2	514	93	1042	0.494	516	1.0	6.875	A
3	545	141	885	0.616	551	1.6	10.963	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	408	576	0.583	343	1.4	15.928	C
2	431	71	1054	0.408	432	0.7	5.792	A
3	457	118	897	0.509	459	1.1	8.266	A

2031 Base (behavioural) + Com Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	19.06	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	253	100.000
2		✓	794	100.000
3		✓	541	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	1	159	93
2	244	0	550
3	116	425	0

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	4	3
2	0	0	1
3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.52	14.21	1.1	B
2	0.85	22.21	5.1	C
3	0.74	16.81	2.7	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	317	603	0.316	189	0.5	8.655	A
2	598	70	1051	0.569	593	1.3	7.754	A
3	407	183	851	0.479	404	0.9	7.986	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	381	573	0.397	227	0.6	10.376	B
2	714	84	1043	0.684	711	2.1	10.720	B
3	487	219	833	0.584	485	1.4	10.270	B

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	464	534	0.523	277	1.1	13.945	B
2	874	103	1032	0.847	863	4.8	20.056	C
3	596	266	810	0.735	591	2.6	16.052	C

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	468	532	0.524	279	1.1	14.206	B
2	874	104	1032	0.847	873	5.1	22.209	C
3	596	269	809	0.737	596	2.7	16.809	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	386	571	0.399	229	0.7	10.600	B
2	714	85	1043	0.685	725	2.3	11.731	B
3	487	224	831	0.585	492	1.5	10.755	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	322	601	0.317	192	0.5	8.810	A
2	598	71	1051	0.569	601	1.3	8.077	A
3	407	185	850	0.479	410	0.9	8.215	A

2031 Base (behavioural) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	33.13	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	433	100.000
2		✓	559	100.000
3		✓	590	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	344	89
	2	152	0	406
	3	67	523	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	1	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.96	87.76	11.1	F
2	0.59	8.47	1.4	A
3	0.75	16.14	2.8	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	326	391	584	0.558	321	1.2	13.467	B
2	421	67	1057	0.398	418	0.7	5.614	A
3	445	114	899	0.495	441	1.0	7.799	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	469	547	0.712	385	2.3	21.677	C
2	502	80	1049	0.479	501	0.9	6.556	A
3	531	137	887	0.598	529	1.5	9.984	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	572	498	0.957	452	8.4	59.375	F
2	615	94	1041	0.591	613	1.4	8.365	A
3	650	167	872	0.745	645	2.7	15.483	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	576	496	0.961	467	11.1	87.765	F
2	615	97	1040	0.592	615	1.4	8.472	A
3	650	168	872	0.746	650	2.8	16.136	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	475	544	0.716	423	2.8	35.611	E
2	502	88	1045	0.481	504	0.9	6.683	A
3	531	137	887	0.598	536	1.5	10.403	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	326	396	582	0.561	332	1.3	14.741	B
2	421	69	1056	0.399	422	0.7	5.688	A
3	445	115	898	0.495	447	1.0	8.009	A

2031 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	24.57	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)

D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	260	100.000
2		✓	831	100.000
3		✓	585	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	163	96
	2	252	0	579
	3	120	465	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.56	16.00	1.2	C
2	0.89	29.11	7.0	D
3	0.80	22.08	3.8	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	347	589	0.333	194	0.5	9.076	A
2	625	72	1050	0.596	619	1.4	8.259	A
3	440	188	848	0.519	436	1.1	8.657	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	416	556	0.421	233	0.7	11.114	B
2	747	87	1042	0.717	743	2.4	11.883	B
3	526	226	830	0.634	523	1.7	11.662	B

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	506	514	0.558	284	1.2	15.571	C

2	914	106	1031	0.887	899	6.3	24.744	C
3	644	273	806	0.799	636	3.6	20.316	C

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	511	511	0.561	286	1.2	15.999	C
2	914	106	1030	0.888	912	7.0	29.105	D
3	644	277	804	0.801	643	3.8	22.082	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	424	552	0.424	236	0.8	11.456	B
2	747	88	1041	0.717	764	2.7	13.718	B
3	526	232	826	0.636	534	1.8	12.613	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	352	586	0.334	197	0.5	9.271	A
2	625	73	1049	0.596	630	1.5	8.676	A
3	440	192	846	0.520	443	1.1	8.990	A

2031 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	45.56	E

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	447	100.000
2		✓	598	100.000
3		✓	619	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	0	355	92
2	156	0	442
3	68	550	1

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	2	1
2	0	0	1
3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	1.02	130.36	17.8	F
2	0.63	9.43	1.7	A
3	0.78	18.90	3.5	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	411	574	0.585	331	1.4	14.476	B
2	450	69	1055	0.426	447	0.7	5.889	A
3	466	117	897	0.519	462	1.1	8.188	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	493	535	0.750	396	2.7	24.869	C
2	537	83	1048	0.513	536	1.0	7.018	A
3	556	140	886	0.628	554	1.6	10.775	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	492	601	485	1.015	455	12.0	77.365	F
2	658	95	1041	0.632	656	1.7	9.279	A
3	681	171	870	0.783	675	3.3	17.807	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	492	606	482	1.020	468	17.8	130.359	F
2	658	98	1039	0.633	658	1.7	9.434	A
3	681	172	870	0.783	681	3.5	18.898	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	501	532	0.755	458	3.6	64.533	F
2	537	95	1041	0.516	540	1.1	7.223	A

3	556	141	885	0.628	563	1.7	11.404	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	417	572	0.588	345	1.5	16.410	C
2	450	72	1054	0.427	451	0.8	5.987	A
3	466	118	897	0.520	469	1.1	8.455	A

2031 Base (behavioural) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 2 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	21.06	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	253	100.000
2		✓	805	100.000
3		✓	570	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	159	93
	2	244	0	562
	3	117	453	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	4	3
2	0	0	1
3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.54	15.08	1.1	C
2	0.86	23.97	5.6	C
3	0.78	19.69	3.3	C

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	338	593	0.322	189	0.5	8.865	A
2	606	70	1051	0.577	601	1.3	7.911	A
3	429	183	851	0.505	425	1.0	8.382	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	406	561	0.406	227	0.7	10.744	B
2	724	84	1043	0.694	721	2.2	11.051	B
3	513	219	833	0.615	510	1.6	11.076	B

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	494	519	0.537	277	1.1	14.741	B
2	887	103	1032	0.859	875	5.2	21.318	C
3	628	266	810	0.775	621	3.2	18.449	C

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	499	517	0.539	279	1.1	15.081	C
2	887	104	1032	0.859	885	5.6	23.974	C
3	628	269	809	0.776	627	3.3	19.693	C

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	413	558	0.408	229	0.7	11.022	B
2	724	85	1042	0.695	737	2.4	12.254	B
3	513	224	831	0.617	519	1.7	11.792	B

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	343	591	0.323	192	0.5	9.042	A
2	606	71	1050	0.577	610	1.4	8.250	A

3	429	185	850	0.505	432	1.0	8.668	A

2031 Base (behavioural) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	35.66	E

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	434	100.000
2		✓	584	100.000
3		✓	603	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	344	90
	2	152	0	432
	3	67	535	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	1	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.98	96.78	12.3	F
2	0.62	9.08	1.6	A
3	0.76	17.15	3.1	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	400	580	0.563	322	1.2	13.699	B
2	440	67	1056	0.416	437	0.7	5.788	A
3	454	114	899	0.505	450	1.0	7.949	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	480	542	0.720	386	2.4	22.384	C
2	525	81	1049	0.501	524	1.0	6.844	A
3	542	137	887	0.611	540	1.5	10.289	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	478	585	492	0.971	451	9.1	63.375	F
2	643	95	1041	0.618	641	1.6	8.941	A
3	664	167	872	0.761	658	3.0	16.352	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	478	589	490	0.975	465	12.3	96.775	F
2	643	98	1040	0.619	643	1.6	9.078	A
3	664	168	872	0.761	663	3.1	17.151	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	487	539	0.724	428	2.9	40.101	E
2	525	90	1044	0.503	528	1.0	7.003	A
3	542	138	887	0.611	548	1.6	10.783	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	405	577	0.566	333	1.4	15.091	C
2	440	70	1055	0.417	441	0.7	5.874	A
3	454	115	898	0.505	456	1.0	8.185	A

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.2.1013
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For sa[redacted]

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: North End Road with Mit.j9
Path: C:\Users\AliceHowse\Highgate Transportation\HTp - Documents\2400 - Projects\2413 - Yapton Road, Barnham\Modelling\Junctions 9\North End Road_B2233 Mini Roundabout\North End Road Modelling (With Mit)
Report generation date: 05/01/2026 12:48:22

»2026 Base (core), AM
»2026 Base (core), PM
»2026 Base (core) + Com Dev, AM
»2026 Base (core) + Com Dev, PM
»2026 Base (core) + Com Dev + Dev, AM
»2026 Base (core) + Com Dev + Dev, PM
»2031 Base (core), AM
»2031 Base (core), PM
»2031 Base (behavioural), AM
»2031 Base (behavioural), PM
»2031 Base (core) + Com Dev, AM
»2031 Base (core) + Com Dev, PM
»2031 Base (behavioural) + Com Dev, AM
»2031 Base (behavioural) + Com Dev, PM
»2031 Base (core) + Com Dev + Dev, AM
»2031 Base (core) + Com Dev + Dev, PM
»2031 Base (behavioural) + Com Dev + Dev, AM
»2031 Base (behavioural) + Com Dev + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2026 Base (core)									
Arm 1	D1	0.1	2.92	0.13	A	D2	0.3	3.47	0.26	A
Arm 2		0.9	5.14	0.48	A		0.4	3.69	0.28	A
Arm 3		0.5	4.64	0.34	A		0.6	4.45	0.36	A
	2026 Base (core) + Com Dev									
Arm 1	D3	0.3	3.32	0.20	A	D4	0.6	4.26	0.36	A
Arm 2		1.8	7.60	0.65	A		0.8	4.80	0.44	A
Arm 3		1.0	6.27	0.50	A		1.1	6.05	0.52	A
	2026 Base (core) + Com Dev + Dev									
Arm 1	D5	0.3	3.39	0.21	A	D6	0.6	4.31	0.36	A
Arm 2		1.9	7.82	0.66	A		0.9	4.99	0.46	A
Arm 3		1.1	6.65	0.53	A		1.1	6.20	0.53	A
	2031 Base (core)									
Arm 1	D7	0.2	2.96	0.13	A	D8	0.4	3.58	0.27	A
Arm 2		1.0	5.42	0.51	A		0.4	3.77	0.30	A
Arm 3		0.6	4.80	0.36	A		0.6	4.60	0.38	A
	2031 Base (behavioural)									
Arm 1	D9	0.1	2.92	0.13	A	D10	0.4	3.49	0.26	A
Arm 2		0.9	5.19	0.49	A		0.4	3.71	0.29	A
Arm 3		0.5	4.66	0.34	A		0.6	4.49	0.37	A
	2031 Base (core) + Com Dev									
Arm 1	D11	0.3	3.43	0.21	A	D12	0.6	4.47	0.38	A
Arm 2		2.1	8.33	0.68	A		0.9	5.06	0.47	A
Arm 3		1.1	6.77	0.54	A		1.2	6.43	0.54	A
	2031 Base (behavioural) + Com Dev									
Arm 1	D13	0.3	3.37	0.21	A	D14	0.6	4.33	0.36	A
Arm 2		1.9	7.80	0.65	A		0.8	4.94	0.46	A

Arm 3		1.1	6.50	0.52	A		1.1	6.21	0.53	A
	2031 Base (core) + Com Dev + Dev									
Arm 1	D15	0.3	3.49	0.22	A	D16	0.6	4.53	0.38	A
Arm 2		2.2	8.59	0.69	A		1.0	5.27	0.49	A
Arm 3		1.3	7.20	0.56	A		1.2	6.59	0.56	A
	2031 Base (behavioural) + Com Dev + Dev									
Arm 1	D17	0.3	3.44	0.21	A	D18	0.6	4.38	0.37	A
Arm 2		2.0	8.02	0.66	A		0.9	5.15	0.48	A
Arm 3		1.2	6.90	0.55	A		1.2	6.36	0.54	A

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

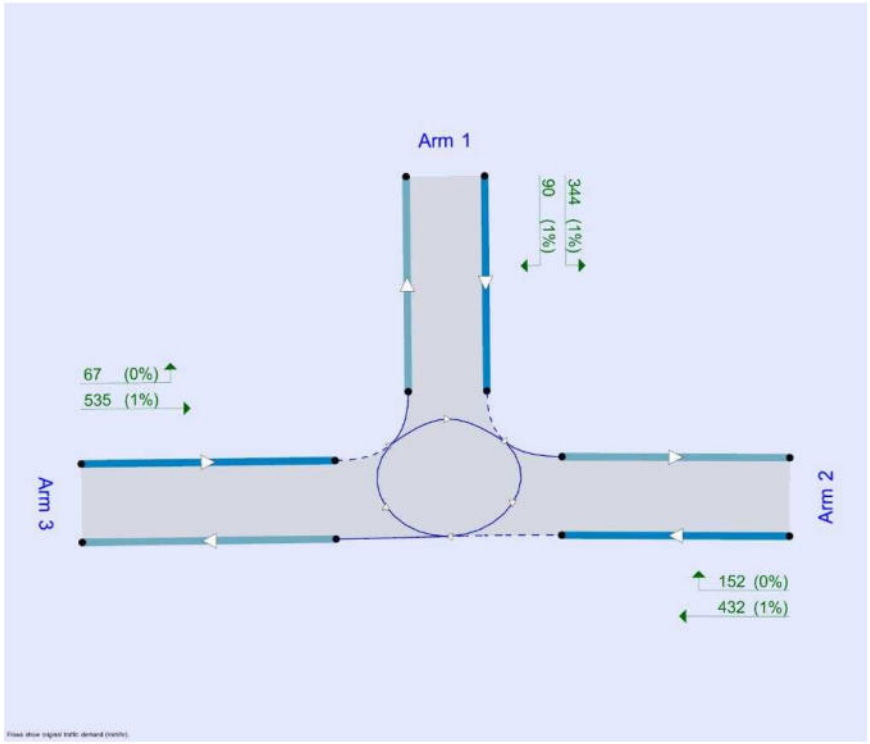
File summary

File Description

Title	
Location	B2233 Mini Roundabout\North End Road
Site number	
Date	05/01/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AH
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	Veh	Veh	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15

D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2026 Base (core), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.64	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	North End Road	North End Road
2	B2233 East	B2233 East
3	B2233 West	B2233 West

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	4.46	5.59	15.8	41.0	20.0	20.0	
2	3.38	4.60	11.9	15.0	20.0	0.0	
3	3.27	4.80	6.4	27.0	20.0	13.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.689	1727
2	0.633	1417
3	0.613	1343

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

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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	164	100.000
2		✓	594	100.000
3		✓	362	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
		1	2	3
	1	1	103	60
	2	186	0	408
	3	65	297	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		1	2	3
	1	0	6	5
	2	0	0	2
	3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.13	2.92	0.1	A
2	0.48	5.14	0.9	A
3	0.34	4.64	0.5	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	123	223	1485	0.083	123	0.1	2.643	A
2	447	46	1368	0.327	445	0.5	3.895	A
3	273	140	1213	0.225	271	0.3	3.817	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	147	267	1455	0.101	147	0.1	2.752	A
2	534	55	1362	0.392	533	0.6	4.343	A
3	325	168	1197	0.272	325	0.4	4.130	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	181	327	1414	0.128	180	0.1	2.917	A
2	654	67	1354	0.483	653	0.9	5.128	A
3	399	206	1175	0.339	398	0.5	4.633	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	181	327	1414	0.128	181	0.1	2.918	A
2	654	67	1354	0.483	654	0.9	5.145	A
3	399	206	1174	0.339	399	0.5	4.640	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	147	267	1454	0.101	148	0.1	2.756	A
2	534	55	1362	0.392	535	0.7	4.362	A
3	325	168	1196	0.272	326	0.4	4.139	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	123	224	1484	0.083	124	0.1	2.645	A
2	447	46	1368	0.327	448	0.5	3.918	A
3	273	141	1213	0.225	273	0.3	3.833	A

2026 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	3.91	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	330	100.000
2		✓	349	100.000
3		✓	418	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	278	52
	2	92	0	257
	3	29	388	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	2
	2	0	0	2
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.26	3.47	0.3	A
2	0.28	3.69	0.4	A
3	0.36	4.45	0.6	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	248	292	1495	0.166	248	0.2	2.886	A
2	263	40	1371	0.192	262	0.2	3.242	A
3	315	69	1289	0.244	313	0.3	3.685	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	297	349	1455	0.204	296	0.3	3.106	A
2	314	48	1366	0.230	314	0.3	3.420	A
3	376	83	1281	0.293	375	0.4	3.974	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	363	428	1402	0.259	363	0.3	3.465	A
2	384	58	1359	0.283	384	0.4	3.688	A
3	460	101	1269	0.363	460	0.6	4.443	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	363	428	1401	0.259	363	0.3	3.467	A
2	384	58	1359	0.283	384	0.4	3.691	A
3	460	101	1269	0.363	460	0.6	4.448	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	297	350	1455	0.204	297	0.3	3.110	A
2	314	48	1366	0.230	314	0.3	3.425	A
3	376	83	1281	0.293	376	0.4	3.985	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	248	293	1494	0.166	249	0.2	2.894	A
2	263	40	1371	0.192	263	0.2	3.251	A
3	315	69	1289	0.244	315	0.3	3.697	A

2026 Base (core) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.45	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	252	100.000
2		✓	783	100.000
3		✓	524	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	158	93
	2	242	0	541
	3	116	408	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.20	3.32	0.3	A
2	0.65	7.60	1.8	A
3	0.50	6.27	1.0	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	306	1458	0.130	189	0.1	2.835	A
2	589	71	1357	0.435	586	0.8	4.659	A
3	394	182	1202	0.328	392	0.5	4.437	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	366	1417	0.160	226	0.2	3.024	A
2	704	84	1348	0.522	703	1.1	5.569	A
3	471	218	1180	0.399	470	0.7	5.065	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	277	448	1361	0.204	277	0.3	3.322	A
2	862	103	1335	0.646	859	1.8	7.515	A
3	577	267	1151	0.501	575	1.0	6.240	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	277	449	1360	0.204	277	0.3	3.325	A
2	862	103	1335	0.646	862	1.8	7.602	A
3	577	268	1150	0.501	577	1.0	6.272	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	368	1416	0.160	227	0.2	3.028	A
2	704	85	1348	0.522	707	1.1	5.640	A
3	471	219	1179	0.399	472	0.7	5.099	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	308	1457	0.130	190	0.2	2.843	A
2	589	71	1357	0.435	591	0.8	4.709	A
3	394	183	1201	0.328	395	0.5	4.472	A

2026 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.12	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	430	100.000
2		✓	539	100.000
3		✓	577	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	341	89
	2	151	0	388
	3	66	510	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	1	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	4.26	0.6	A
2	0.44	4.80	0.8	A
3	0.52	6.05	1.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	383	1441	0.225	323	0.3	3.217	A
2	406	68	1363	0.298	404	0.4	3.746	A
3	434	113	1263	0.344	432	0.5	4.325	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	459	1389	0.278	386	0.4	3.591	A
2	485	81	1355	0.358	484	0.6	4.131	A
3	519	136	1249	0.415	518	0.7	4.918	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	561	1318	0.359	473	0.6	4.254	A
2	593	99	1343	0.442	593	0.8	4.788	A
3	635	166	1231	0.516	634	1.1	6.018	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	563	1317	0.359	473	0.6	4.265	A
2	593	99	1343	0.442	593	0.8	4.800	A
3	635	166	1231	0.516	635	1.1	6.047	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	461	1387	0.279	387	0.4	3.601	A
2	485	81	1355	0.358	485	0.6	4.145	A
3	519	136	1249	0.415	520	0.7	4.950	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	385	1439	0.225	324	0.3	3.229	A
2	406	68	1363	0.298	406	0.4	3.763	A

3	434	114	1262	0.344	435	0.5	4.357	A

2026 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.71	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	252	100.000
2		✓	795	100.000
3		✓	553	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	158	93
	2	242	0	553
	3	116	436	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	3.39	0.3	A
2	0.66	7.82	1.9	A
3	0.53	6.65	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	327	1444	0.132	189	0.2	2.868	A
2	599	71	1357	0.441	596	0.8	4.712	A
3	416	182	1201	0.346	414	0.5	4.562	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	392	1399	0.162	227	0.2	3.070	A
2	715	84	1348	0.530	714	1.1	5.666	A
3	497	218	1180	0.421	496	0.7	5.262	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	278	479	1339	0.207	278	0.3	3.390	A
2	876	103	1335	0.656	873	1.9	7.727	A
3	609	267	1150	0.529	607	1.1	6.606	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	278	480	1338	0.208	278	0.3	3.393	A
2	876	103	1335	0.656	875	1.9	7.825	A
3	609	268	1150	0.529	608	1.1	6.648	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	227	393	1398	0.162	227	0.2	3.074	A
2	715	85	1348	0.531	718	1.1	5.742	A
3	497	220	1179	0.422	498	0.7	5.302	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	190	329	1442	0.132	190	0.2	2.877	A
2	599	71	1356	0.441	600	0.8	4.769	A
3	416	184	1200	0.347	417	0.5	4.601	A

2026 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.25	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	430	100.000
2		✓	565	100.000
3		✓	590	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	0	341	89
2	151	0	414
3	67	522	1

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	1	1
2	0	0	1
3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	4.31	0.6	A
2	0.46	4.99	0.9	A
3	0.53	6.20	1.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	392	1435	0.226	323	0.3	3.235	A
2	425	68	1363	0.312	424	0.5	3.825	A
3	444	113	1263	0.352	442	0.5	4.374	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	469	1381	0.280	386	0.4	3.615	A
2	508	81	1355	0.375	507	0.6	4.245	A
3	530	136	1249	0.425	530	0.7	4.998	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	575	1309	0.362	473	0.6	4.300	A
2	622	99	1343	0.463	621	0.9	4.977	A
3	650	166	1231	0.528	648	1.1	6.162	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	576	1308	0.362	473	0.6	4.311	A
2	622	99	1343	0.463	622	0.9	4.992	A
3	650	166	1231	0.528	650	1.1	6.195	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	387	471	1380	0.280	387	0.4	3.628	A
2	508	81	1355	0.375	509	0.6	4.263	A
3	530	136	1249	0.425	532	0.7	5.030	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	324	394	1433	0.226	324	0.3	3.247	A
2	425	68	1363	0.312	426	0.5	3.845	A
3	444	114	1262	0.352	445	0.5	4.407	A

2031 Base (core), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.85	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	172	100.000
2		✓	624	100.000
3		✓	379	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	108	63
	2	196	0	428
	3	68	311	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	6	5
	2	0	0	2
	3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.13	2.96	0.2	A
2	0.51	5.42	1.0	A
3	0.36	4.80	0.6	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	129	233	1478	0.088	129	0.1	2.669	A
2	470	48	1366	0.344	468	0.5	3.998	A
3	285	148	1209	0.236	284	0.3	3.889	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	155	279	1446	0.107	155	0.1	2.786	A
2	561	57	1360	0.412	560	0.7	4.498	A
3	341	177	1191	0.286	340	0.4	4.227	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	189	342	1404	0.135	189	0.2	2.963	A
2	687	70	1352	0.508	686	1.0	5.396	A
3	417	216	1168	0.357	417	0.6	4.787	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	189	342	1404	0.135	189	0.2	2.964	A
2	687	70	1351	0.508	687	1.0	5.417	A
3	417	217	1168	0.357	417	0.6	4.796	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	155	280	1446	0.107	155	0.1	2.790	A
2	561	58	1360	0.413	562	0.7	4.521	A
3	341	178	1191	0.286	341	0.4	4.239	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	129	234	1477	0.088	130	0.1	2.671	A
2	470	48	1366	0.344	471	0.5	4.022	A
3	285	149	1208	0.236	286	0.3	3.905	A

2031 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.03	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	346	100.000
2		✓	367	100.000
3		✓	439	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	292	54
	2	97	0	270
	3	31	407	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	2
	2	0	0	2
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.27	3.58	0.4	A
2	0.30	3.77	0.4	A
3	0.38	4.60	0.6	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	306	1485	0.175	260	0.2	2.937	A
2	276	41	1370	0.202	275	0.3	3.285	A
3	331	73	1287	0.257	329	0.3	3.754	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	366	1444	0.215	311	0.3	3.177	A
2	330	49	1365	0.242	330	0.3	3.477	A
3	395	87	1278	0.309	394	0.4	4.071	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	449	1388	0.275	381	0.4	3.572	A
2	404	60	1358	0.298	404	0.4	3.770	A
3	483	107	1266	0.382	483	0.6	4.591	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	381	449	1387	0.275	381	0.4	3.576	A

2	404	61	1358	0.298	404	0.4	3.773	A
3	483	107	1266	0.382	483	0.6	4.598	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	311	367	1443	0.216	311	0.3	3.184	A
2	330	50	1365	0.242	330	0.3	3.480	A
3	395	87	1278	0.309	395	0.4	4.083	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	260	308	1484	0.176	261	0.2	2.943	A
2	276	41	1370	0.202	277	0.3	3.292	A
3	331	73	1287	0.257	331	0.3	3.770	A

2031 Base (behavioural), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.67	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	165	100.000
2		✓	599	100.000
3		✓	364	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To 1	To 2	To 3
1	1	104	60
2	188	0	411
3	65	299	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	6	5
2	0	0	2
3	2	4	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.13	2.92	0.1	A
2	0.49	5.19	0.9	A
3	0.34	4.66	0.5	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	124	224	1484	0.084	124	0.1	2.647	A
2	451	46	1368	0.330	449	0.5	3.911	A
3	274	142	1212	0.226	273	0.3	3.827	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	269	1454	0.102	148	0.1	2.757	A
2	538	55	1362	0.395	538	0.6	4.365	A
3	327	170	1196	0.274	327	0.4	4.140	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	182	329	1413	0.129	182	0.1	2.923	A
2	660	67	1354	0.487	658	0.9	5.169	A
3	401	208	1173	0.342	400	0.5	4.654	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	182	329	1412	0.129	182	0.1	2.924	A
2	660	67	1354	0.487	659	0.9	5.185	A
3	401	208	1173	0.342	401	0.5	4.661	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	148	269	1453	0.102	148	0.1	2.761	A
2	538	55	1362	0.395	540	0.7	4.386	A
3	327	170	1195	0.274	328	0.4	4.153	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	124	225	1483	0.084	124	0.1	2.651	A
2	451	46	1368	0.330	452	0.5	3.934	A

3	274	142	1212	0.226	274	0.3	3.841	A

2031 Base (behavioural), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	3.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	333	100.000
2		✓	353	100.000
3		✓	424	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	281	52
	2	93	0	260
	3	30	393	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	2
	2	0	0	2
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.26	3.49	0.4	A
2	0.29	3.71	0.4	A

3	0.37	4.49	0.6	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	295	1492	0.168	250	0.2	2.897	A
2	266	40	1371	0.194	265	0.2	3.251	A
3	319	70	1289	0.248	318	0.3	3.704	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	354	1452	0.206	299	0.3	3.122	A
2	317	48	1366	0.232	317	0.3	3.432	A
3	381	84	1280	0.298	381	0.4	4.000	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	433	1398	0.262	366	0.4	3.489	A
2	389	58	1359	0.286	388	0.4	3.705	A
3	467	102	1269	0.368	466	0.6	4.478	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	434	1398	0.262	367	0.4	3.490	A
2	389	58	1359	0.286	389	0.4	3.708	A
3	467	102	1269	0.368	467	0.6	4.488	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	299	355	1452	0.206	300	0.3	3.128	A
2	317	48	1366	0.232	318	0.3	3.437	A
3	381	84	1280	0.298	382	0.4	4.009	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	251	297	1491	0.168	251	0.2	2.903	A
2	266	40	1371	0.194	266	0.2	3.258	A
3	319	70	1288	0.248	320	0.3	3.719	A

2031 Base (core) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	7.00	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	260	100.000
2		✓	819	100.000
3		✓	556	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	163	96
	2	252	0	567
	3	119	437	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	3.43	0.3	A
2	0.68	8.33	2.1	A
3	0.54	6.77	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	328	1442	0.136	195	0.2	2.885	A
2	616	73	1355	0.455	613	0.8	4.830	A
3	419	189	1198	0.350	417	0.5	4.598	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	393	1398	0.167	234	0.2	3.092	A
2	736	87	1346	0.547	735	1.2	5.873	A
3	500	227	1175	0.426	499	0.7	5.320	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	480	1338	0.214	286	0.3	3.423	A
2	901	106	1333	0.676	898	2.0	8.206	A
3	613	277	1145	0.535	611	1.1	6.720	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	481	1337	0.214	286	0.3	3.426	A
2	901	107	1333	0.676	901	2.1	8.327	A
3	613	278	1144	0.535	613	1.1	6.768	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	394	1396	0.167	234	0.2	3.097	A
2	736	87	1346	0.547	739	1.2	5.969	A
3	500	228	1174	0.426	502	0.7	5.366	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	330	1441	0.136	196	0.2	2.894	A
2	616	73	1355	0.455	618	0.8	4.895	A
3	419	191	1197	0.350	420	0.5	4.637	A

2031 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.41	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	446	100.000
2		✓	572	100.000
3		✓	606	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	355	91
	2	156	0	416
	3	68	537	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.38	4.47	0.6	A
2	0.47	5.06	0.9	A
3	0.54	6.43	1.2	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	403	1426	0.235	334	0.3	3.294	A
2	431	69	1362	0.316	429	0.5	3.850	A
3	457	117	1261	0.362	454	0.6	4.452	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	483	1371	0.292	400	0.4	3.704	A
2	514	83	1354	0.380	514	0.6	4.283	A
3	545	140	1247	0.437	544	0.8	5.119	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	491	592	1297	0.378	490	0.6	4.456	A
2	630	101	1342	0.469	629	0.9	5.041	A
3	668	171	1228	0.544	666	1.2	6.394	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	491	593	1296	0.379	491	0.6	4.468	A
2	630	102	1342	0.469	630	0.9	5.056	A
3	668	172	1227	0.544	668	1.2	6.431	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	486	1370	0.293	401	0.4	3.719	A
2	514	83	1353	0.380	515	0.6	4.300	A
3	545	140	1246	0.437	547	0.8	5.157	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	406	1424	0.236	336	0.3	3.308	A
2	431	70	1362	0.316	431	0.5	3.869	A
3	457	117	1260	0.362	457	0.6	4.488	A

2031 Base (behavioural) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.64	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	253	100.000
2		✓	794	100.000
3		✓	541	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	159	93
	2	244	0	550
	3	116	425	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	3.37	0.3	A
2	0.65	7.80	1.9	A
3	0.52	6.50	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	318	1449	0.132	190	0.2	2.857	A
2	598	71	1357	0.441	595	0.8	4.705	A
3	407	183	1201	0.339	405	0.5	4.512	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	381	1406	0.162	228	0.2	3.054	A
2	714	85	1348	0.530	712	1.1	5.656	A
3	487	220	1180	0.412	486	0.7	5.183	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	467	1348	0.207	279	0.3	3.367	A
2	874	104	1335	0.655	871	1.9	7.706	A
3	596	269	1150	0.518	594	1.1	6.458	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	468	1347	0.207	279	0.3	3.369	A
2	874	104	1335	0.655	874	1.9	7.801	A
3	596	269	1150	0.518	596	1.1	6.497	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	383	1405	0.162	228	0.2	3.058	A
2	714	85	1348	0.530	717	1.1	5.734	A
3	487	221	1179	0.413	488	0.7	5.222	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	321	1448	0.132	191	0.2	2.863	A
2	598	71	1356	0.441	599	0.8	4.763	A

3	407	185	1201	0.339	408	0.5	4.549	A

2031 Base (behavioural) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.25	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	433	100.000
2		✓	559	100.000
3		✓	590	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	344	89
	2	152	0	406
	3	67	523	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	1	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	4.33	0.6	A
2	0.46	4.94	0.8	A
3	0.53	6.21	1.1	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	326	392	1434	0.227	325	0.3	3.243	A
2	421	68	1363	0.309	419	0.4	3.805	A
3	445	114	1262	0.352	442	0.5	4.379	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	470	1381	0.282	389	0.4	3.627	A
2	502	81	1355	0.371	502	0.6	4.217	A
3	531	137	1249	0.425	530	0.7	5.005	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	575	1309	0.365	476	0.6	4.321	A
2	615	99	1343	0.458	614	0.8	4.929	A
3	650	167	1230	0.529	649	1.1	6.176	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	477	577	1308	0.365	477	0.6	4.333	A
2	615	99	1343	0.458	615	0.8	4.944	A
3	650	168	1230	0.529	650	1.1	6.209	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	389	472	1379	0.282	390	0.4	3.643	A
2	502	81	1355	0.371	503	0.6	4.232	A
3	531	137	1248	0.425	532	0.7	5.037	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	326	395	1432	0.228	327	0.3	3.258	A
2	421	68	1363	0.309	421	0.4	3.826	A
3	445	115	1262	0.352	445	0.5	4.412	A

2031 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	7.30	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	260	100.000
2		✓	831	100.000
3		✓	585	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	1	163	96
2	252	0	579
3	120	465	0

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	4	3
2	0	0	1
3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.22	3.49	0.3	A
2	0.69	8.59	2.2	A
3	0.56	7.20	1.3	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	348	1428	0.137	195	0.2	2.918	A
2	625	73	1355	0.461	622	0.8	4.887	A
3	440	189	1197	0.368	438	0.6	4.727	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	417	1381	0.169	234	0.2	3.138	A
2	747	87	1346	0.555	745	1.2	5.975	A
3	526	227	1175	0.448	525	0.8	5.530	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	511	1317	0.217	286	0.3	3.492	A
2	914	106	1333	0.686	911	2.1	8.449	A
3	644	277	1145	0.563	642	1.3	7.138	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	286	512	1316	0.218	286	0.3	3.495	A
2	914	107	1333	0.686	914	2.2	8.587	A
3	644	278	1144	0.563	644	1.3	7.197	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	234	419	1379	0.170	234	0.2	3.146	A
2	747	87	1346	0.555	750	1.3	6.078	A
3	526	228	1174	0.448	528	0.8	5.585	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	196	351	1426	0.137	196	0.2	2.926	A
2	625	73	1355	0.461	627	0.9	4.956	A
3	440	191	1196	0.368	441	0.6	4.774	A

2031 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.56	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	447	100.000
2		✓	598	100.000
3		✓	619	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	0	355	92
	2	156	0	442
	3	68	550	1

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	2	1
	2	0	0	1
	3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.38	4.53	0.6	A
2	0.49	5.27	1.0	A
3	0.56	6.59	1.2	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	413	1420	0.237	335	0.3	3.315	A
2	450	70	1362	0.330	448	0.5	3.932	A
3	466	117	1261	0.370	464	0.6	4.505	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	495	1364	0.294	401	0.4	3.736	A
2	537	84	1353	0.397	537	0.7	4.406	A
3	556	140	1247	0.446	556	0.8	5.203	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	492	605	1288	0.382	491	0.6	4.511	A
2	658	102	1341	0.491	657	1.0	5.252	A
3	681	171	1227	0.555	680	1.2	6.550	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	492	607	1287	0.382	492	0.6	4.526	A
2	658	102	1341	0.491	658	1.0	5.271	A
3	681	172	1227	0.555	681	1.2	6.594	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	401	497	1362	0.295	402	0.4	3.751	A
2	537	84	1353	0.397	539	0.7	4.427	A
3	556	140	1246	0.446	558	0.8	5.243	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	336	416	1418	0.237	337	0.3	3.332	A
2	450	70	1362	0.331	451	0.5	3.956	A
3	466	117	1260	0.370	467	0.6	4.544	A

2031 Base (behavioural) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	253	100.000
2		✓	805	100.000
3		✓	570	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	159	93
	2	244	0	562
	3	117	453	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	4	3
	2	0	0	1
	3	1	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.21	3.44	0.3	A
2	0.66	8.02	2.0	A
3	0.55	6.90	1.2	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	340	1435	0.133	190	0.2	2.890	A
2	606	71	1357	0.447	603	0.8	4.759	A
3	429	183	1201	0.357	427	0.6	4.638	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	407	1389	0.164	228	0.2	3.100	A
2	724	85	1348	0.537	723	1.1	5.749	A
3	513	220	1179	0.435	512	0.8	5.385	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	498	1326	0.210	279	0.3	3.435	A
2	887	104	1335	0.664	884	1.9	7.916	A
3	628	269	1150	0.546	626	1.2	6.848	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	279	499	1326	0.210	279	0.3	3.438	A
2	887	104	1335	0.664	887	2.0	8.023	A
3	628	269	1150	0.546	628	1.2	6.898	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	228	409	1387	0.164	228	0.2	3.107	A
2	724	85	1347	0.537	727	1.2	5.832	A
3	513	221	1179	0.435	514	0.8	5.431	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	191	342	1433	0.133	191	0.2	2.897	A
2	606	71	1356	0.447	608	0.8	4.818	A
3	429	185	1200	0.358	430	0.6	4.681	A

2031 Base (behavioural) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.39	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	434	100.000
2		✓	584	100.000
3		✓	603	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	0	344	90
2	152	0	432
3	67	535	1

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	1	1
2	0	0	1
3	0	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.37	4.38	0.6	A
2	0.48	5.15	0.9	A
3	0.54	6.36	1.2	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	401	1428	0.229	326	0.3	3.263	A
2	440	68	1363	0.323	438	0.5	3.884	A
3	454	114	1262	0.359	452	0.6	4.429	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	481	1373	0.284	390	0.4	3.657	A
2	525	82	1354	0.388	525	0.6	4.336	A
3	542	137	1249	0.434	541	0.8	5.083	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	478	588	1300	0.368	477	0.6	4.373	A
2	643	100	1343	0.479	642	0.9	5.130	A
3	664	167	1230	0.540	662	1.2	6.320	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	478	590	1299	0.368	478	0.6	4.385	A
2	643	100	1343	0.479	643	0.9	5.147	A
3	664	168	1230	0.540	664	1.2	6.357	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	390	483	1372	0.284	391	0.4	3.673	A
2	525	82	1354	0.388	526	0.6	4.354	A

3	542	137	1248	0.434	543	0.8	5.119	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	327	404	1426	0.229	327	0.3	3.276	A
2	440	69	1363	0.323	441	0.5	3.907	A
3	454	115	1262	0.360	455	0.6	4.463	A

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.2.1013
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For sale [redacted]

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Bilsham Road (No Mit).j9
Path: C:\Users\AliceHowse\Highgate Transportation\HTp - Documents\2400 - Projects\2413 - Yapton Road, Barnham\Modelling\Junctions 9\Bilsham Road_B2233 Mini Roundabout
Report generation date: 05/01/2026 12:56:54

»2026 Base (core), AM
»2026 Base (core), PM
»2026 Base (core) + Com Dev, AM
»2026 Base (core) + Com Dev, PM
»2026 Base (core) + Com Dev + Dev, AM
»2026 Base (core) + Com Dev + Dev, PM
»2031 Base (core), AM
»2031 Base (core), PM
»2031 Base (behavioural), AM
»2031 Base (behavioural), PM
»2031 Base (core) + Com Dev, AM
»2031 Base (core) + Com Dev, PM
»2031 Base (behavioural) + Com Dev, AM
»2031 Base (behavioural) + Com Dev, PM
»2031 Base (core) + Com Dev + Dev, AM
»2031 Base (core) + Com Dev + Dev, PM
»2031 Base (behavioural) + Com Dev + Dev, AM
»2031 Base (behavioural) + Com Dev + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2026 Base (core)									
Arm 1	D1	1.8	11.75	0.64	B	D2	1.0	8.74	0.51	A
Arm 2		0.5	10.37	0.36	B		0.3	7.21	0.20	A
Arm 3		0.8	6.79	0.46	A		2.4	12.42	0.71	B
	2026 Base (core) + Com Dev									
Arm 1	D3	3.8	21.77	0.80	C	D4	1.8	12.89	0.65	B
Arm 2		1.6	19.45	0.62	C		0.6	10.07	0.38	B
Arm 3		1.6	9.58	0.62	A		6.7	28.97	0.88	D
	2026 Base (core) + Com Dev + Dev									
Arm 1	D5	4.2	23.48	0.82	C	D6	2.1	14.29	0.69	B
Arm 2		1.6	20.09	0.63	C		0.6	10.48	0.39	B
Arm 3		1.8	10.47	0.65	B		7.5	31.92	0.90	D
	2031 Base (core)									
Arm 1	D7	2.0	12.91	0.68	B	D8	1.1	9.28	0.54	A
Arm 2		0.6	11.08	0.38	B		0.3	7.40	0.21	A
Arm 3		0.9	7.11	0.48	A		2.9	14.30	0.75	B
	2031 Base (behavioural)									
Arm 1	D9	1.8	11.88	0.65	B	D10	1.1	8.86	0.52	A
Arm 2		0.6	10.49	0.36	B		0.3	7.25	0.20	A
Arm 3		0.8	6.82	0.46	A		2.5	12.87	0.72	B
	2031 Base (core) + Com Dev									
Arm 1	D11	5.0	27.19	0.84	D	D12	2.3	15.08	0.70	C
Arm 2		1.9	22.40	0.66	C		0.7	10.74	0.40	B
Arm 3		1.9	10.73	0.66	B		10.2	42.25	0.93	E
	2031 Base (behavioural) + Com Dev									
Arm 1	D13	4.1	23.15	0.81	C	D14	2.1	14.00	0.68	B
Arm 2		1.7	20.14	0.63	C		0.6	10.39	0.39	B

Arm 3		1.7	10.10	0.64	B		7.8	33.21	0.90	D
2031 Base (core) + Com Dev + Dev										
Arm 1	D15	5.5	29.74	0.86	D	D16	2.7	16.77	0.73	C
Arm 2		2.0	23.28	0.67	C		0.7	11.16	0.41	B
Arm 3		2.2	11.83	0.69	B		11.8	47.76	0.94	E
2031 Base (behavioural) + Com Dev + Dev										
Arm 1	D17	4.5	25.09	0.83	D	D18	2.4	15.47	0.71	C
Arm 2		1.7	20.88	0.64	C		0.7	10.80	0.40	B
Arm 3		2.0	11.06	0.67	B		8.8	36.99	0.92	E

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

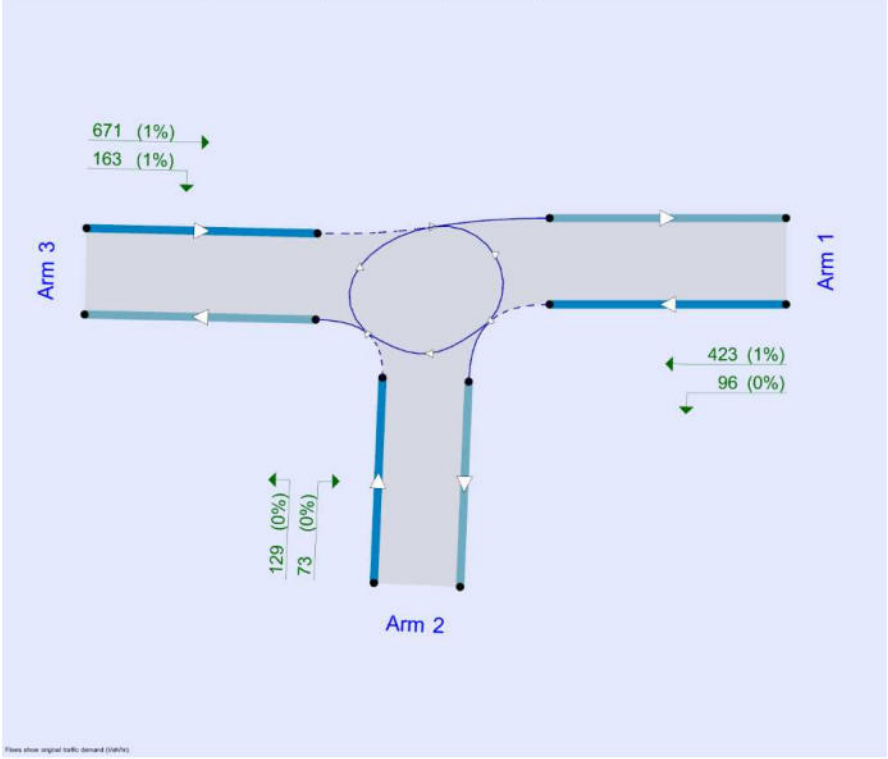
File summary

File Description

Title	
Location	Bilsham Road_B2233 Mini Roundabout
Site number	
Date	05/01/2026
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AH
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	Veh	Veh	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

Mini-roundabout model	Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
JUNCTIONS 9			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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2026 Base (core), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	9.66	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Arms

Arms

Arm	Name	Description
1	B2233 East	B2233 East
2	Bilsham Road	Bilsham Road
3	B2233 West	B2233 West

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	2.94	2.94	3.64	0.8	8.96	5.21	0.0	
2	2.85	2.85	5.23	2.4	9.04	5.97	0.0	✓
3	3.26	3.26	3.26	0.0	17.53	17.46	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.595	921
2	0.495	791
3	0.685	1075

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

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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	504	100.000
2		✓	174	100.000
3		✓	403	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	55	448
	2	76	0	98
	3	355	48	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	6	3
	2	0	0	0
	3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.64	11.75	1.8	B
2	0.36	10.37	0.5	B
3	0.46	6.79	0.8	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	379	36	871	0.436	376	0.8	7.242	A
2	131	335	620	0.211	130	0.3	7.337	A
3	303	58	992	0.306	302	0.4	5.203	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	453	43	867	0.523	452	1.1	8.654	A
2	156	403	585	0.267	156	0.4	8.377	A
3	362	69	984	0.368	362	0.6	5.777	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	555	53	861	0.645	552	1.8	11.555	B
2	192	492	540	0.355	191	0.5	10.296	B
3	444	84	974	0.455	443	0.8	6.760	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	555	53	861	0.645	555	1.8	11.749	B
2	192	494	539	0.356	192	0.5	10.372	B
3	444	85	974	0.456	444	0.8	6.787	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	453	43	866	0.523	456	1.1	8.823	A
2	156	406	584	0.268	157	0.4	8.455	A
3	362	70	984	0.368	363	0.6	5.807	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	379	36	870	0.436	381	0.8	7.373	A
2	131	339	618	0.212	131	0.3	7.411	A
3	303	58	992	0.306	304	0.4	5.240	A

2026 Base (core), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 90% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	10.67	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	389	100.000
2		✓	115	100.000
3		✓	649	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	95	292
	2	66	0	49
	3	547	100	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.51	8.74	1.0	A
2	0.20	7.21	0.3	A
3	0.71	12.42	2.4	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	76	862	0.340	291	0.5	6.281	A
2	87	221	679	0.128	86	0.1	6.067	A
3	489	51	1020	0.479	485	0.9	6.684	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	91	853	0.410	349	0.7	7.137	A
2	103	266	657	0.157	103	0.2	6.504	A
3	583	61	1013	0.576	582	1.3	8.314	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	112	841	0.510	427	1.0	8.675	A
2	127	325	627	0.202	126	0.3	7.193	A
3	715	75	1004	0.712	710	2.4	12.097	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	112	840	0.510	428	1.0	8.737	A
2	127	326	626	0.202	127	0.3	7.206	A
3	715	75	1004	0.712	714	2.4	12.417	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	92	852	0.410	351	0.7	7.201	A
2	103	267	656	0.158	104	0.2	6.522	A
3	583	61	1013	0.576	588	1.4	8.546	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	77	861	0.340	294	0.5	6.349	A
2	87	223	678	0.128	87	0.1	6.093	A
3	489	51	1020	0.479	490	0.9	6.828	A

2026 Base (core) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	16.61	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	598	100.000
2		✓	276	100.000
3		✓	545	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	540
	2	90	0	186
	3	429	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.80	21.77	3.8	C
2	0.62	19.45	1.6	C
3	0.62	9.58	1.6	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	87	845	0.533	446	1.1	8.922	A
2	208	403	586	0.355	206	0.5	9.420	A
3	410	68	997	0.412	408	0.7	6.080	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	537	105	835	0.644	535	1.7	11.902	B
2	248	484	545	0.456	247	0.8	12.053	B
3	490	81	988	0.496	489	1.0	7.197	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	658	128	821	0.801	651	3.6	20.226	C
2	304	589	492	0.619	301	1.5	18.630	C
3	600	99	976	0.615	598	1.6	9.455	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	658	128	821	0.802	657	3.8	21.773	C
2	304	595	488	0.623	304	1.6	19.453	C
3	600	100	976	0.615	600	1.6	9.580	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	537	105	834	0.644	545	1.9	12.769	B
2	248	493	540	0.460	251	0.9	12.586	B
3	490	83	987	0.496	492	1.0	7.311	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	88	844	0.533	453	1.2	9.265	A
2	208	410	582	0.357	209	0.6	9.677	A
3	410	69	996	0.412	412	0.7	6.170	A

2026 Base (core) + Com Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 86% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	21.28	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	476	100.000
2		✓	201	100.000
3		✓	807	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	2	95	379
2	72	0	129
3	644	161	2

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	0	2
2	0	0	0
3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.65	12.89	1.8	B
2	0.38	10.07	0.6	B
3	0.88	28.97	6.7	D

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	358	122	837	0.428	355	0.7	7.431	A
2	151	286	647	0.234	150	0.3	7.230	A
3	608	55	1023	0.594	602	1.4	8.437	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	146	823	0.520	427	1.1	9.059	A
2	181	343	618	0.292	180	0.4	8.216	A
3	725	66	1016	0.714	722	2.4	12.085	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	524	176	804	0.652	521	1.8	12.576	B
2	221	419	580	0.382	221	0.6	10.000	B
3	889	81	1006	0.884	873	6.2	24.786	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	524	179	803	0.653	524	1.8	12.887	B
2	221	422	579	0.383	221	0.6	10.073	B
3	889	81	1005	0.884	886	6.7	28.974	D

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	150	820	0.522	431	1.1	9.315	A
2	181	347	616	0.293	181	0.4	8.296	A

3	725	67	1015	0.715	742	2.6	13.886	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	358	124	836	0.429	360	0.8	7.587	A
2	151	289	645	0.235	152	0.3	7.306	A
3	608	56	1023	0.594	612	1.5	8.860	A

2026 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 81% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	17.70	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	609	100.000
2		✓	276	100.000
3		✓	574	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	551
	2	90	0	186
	3	457	117	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	5	3
2	0	0	0
3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.82	23.48	4.2	C
2	0.63	20.09	1.6	C
3	0.65	10.47	1.8	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	458	87	845	0.543	454	1.2	9.110	A
2	208	411	582	0.357	206	0.5	9.520	A
3	432	68	997	0.434	429	0.8	6.310	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	547	105	835	0.656	545	1.8	12.306	B
2	248	494	540	0.460	247	0.8	12.248	B
3	516	81	988	0.522	515	1.1	7.589	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	671	128	821	0.817	662	4.0	21.545	C
2	304	600	486	0.626	301	1.6	19.163	C
3	632	99	976	0.648	629	1.8	10.298	B

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	671	129	821	0.817	670	4.2	23.480	C
2	304	607	482	0.630	304	1.6	20.093	C
3	632	100	975	0.648	632	1.8	10.474	B

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	547	106	834	0.656	556	2.0	13.341	B
2	248	504	534	0.464	251	0.9	12.842	B
3	516	83	987	0.523	519	1.1	7.737	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	458	88	844	0.543	462	1.2	9.485	A
2	208	418	578	0.359	209	0.6	9.789	A

3	432	69	996	0.434	433	0.8	6.415	A

2026 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 86% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	23.30	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	501	100.000
2		✓	201	100.000
3		✓	819	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	2	95	404
2	72	0	129
3	656	161	2

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	0	2
2	0	0	0
3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.69	14.29	2.1	B
2	0.39	10.48	0.6	B
3	0.90	31.92	7.5	D

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	377	122	837	0.451	374	0.8	7.725	A
2	151	305	637	0.237	150	0.3	7.369	A
3	617	55	1023	0.603	611	1.5	8.612	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	146	823	0.548	449	1.2	9.596	A
2	181	366	607	0.298	180	0.4	8.432	A
3	736	66	1016	0.725	732	2.5	12.514	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	552	176	804	0.686	548	2.1	13.838	B
2	221	446	566	0.391	220	0.6	10.387	B
3	902	81	1006	0.897	885	6.8	26.630	D

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	552	179	803	0.687	551	2.1	14.286	B
2	221	449	565	0.392	221	0.6	10.479	B
3	902	81	1005	0.897	899	7.5	31.922	D

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	150	820	0.549	454	1.2	9.933	A
2	181	370	605	0.299	182	0.4	8.525	A
3	736	67	1015	0.725	755	2.8	14.740	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	377	124	836	0.451	379	0.8	7.910	A
2	151	309	635	0.238	152	0.3	7.452	A
3	617	56	1023	0.603	621	1.6	9.081	A

2031 Base (core), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	10.44	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	528	100.000
2		✓	183	100.000
3		✓	422	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
		1	2	3
1	1	57	470
2	80	0	103
3	372	50	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		1	2	3
1	0	6	3
2	0	0	0
3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.68	12.91	2.0	B
2	0.38	11.08	0.6	B
3	0.48	7.11	0.9	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	398	37	870	0.457	394	0.8	7.520	A
2	138	352	611	0.225	137	0.3	7.565	A
3	318	60	990	0.321	316	0.5	5.325	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	475	45	865	0.548	473	1.2	9.142	A
2	165	422	575	0.286	164	0.4	8.745	A
3	379	73	982	0.386	379	0.6	5.961	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	581	55	860	0.676	578	2.0	12.633	B
2	201	516	528	0.382	201	0.6	10.981	B
3	465	89	971	0.478	464	0.9	7.073	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	581	55	860	0.676	581	2.0	12.907	B
2	201	518	526	0.383	201	0.6	11.082	B
3	465	89	971	0.478	465	0.9	7.106	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	475	45	865	0.549	478	1.2	9.365	A
2	165	426	573	0.287	165	0.4	8.844	A
3	379	73	982	0.386	380	0.6	6.001	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	398	38	870	0.457	399	0.9	7.677	A
2	138	356	609	0.226	138	0.3	7.651	A
3	318	61	989	0.321	318	0.5	5.370	A

2031 Base (core), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 90% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	11.94	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	408	100.000
2		✓	120	100.000
3		✓	682	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	306
	2	69	0	51
	3	575	105	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.54	9.28	1.1	A
2	0.21	7.40	0.3	A
3	0.75	14.30	2.9	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	307	80	860	0.357	305	0.5	6.461	A
2	90	232	674	0.134	90	0.2	6.158	A
3	513	53	1018	0.504	509	1.0	7.020	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	96	850	0.432	366	0.7	7.425	A
2	108	278	650	0.166	108	0.2	6.634	A
3	613	64	1011	0.606	611	1.5	8.950	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	449	117	837	0.536	448	1.1	9.201	A
2	132	340	619	0.213	132	0.3	7.386	A
3	751	78	1002	0.750	746	2.8	13.775	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	449	118	837	0.537	449	1.1	9.281	A
2	132	341	618	0.214	132	0.3	7.403	A
3	751	78	1001	0.750	751	2.9	14.297	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	97	849	0.432	368	0.8	7.509	A
2	108	280	649	0.166	108	0.2	6.657	A
3	613	64	1011	0.606	618	1.6	9.291	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	307	81	859	0.358	308	0.6	6.543	A
2	90	234	672	0.134	91	0.2	6.187	A
3	513	54	1018	0.504	516	1.0	7.195	A

2031 Base (behavioural), AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 84% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	9.76	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	507	100.000
2		✓	176	100.000
3		✓	405	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	1	55	451
2	77	0	99
3	357	48	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	6	3
2	0	0	0
3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.65	11.88	1.8	B
2	0.36	10.49	0.6	B
3	0.46	6.82	0.8	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	382	36	871	0.438	379	0.8	7.272	A
2	133	338	618	0.214	131	0.3	7.374	A
3	305	58	991	0.308	303	0.4	5.218	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	456	43	867	0.526	455	1.1	8.709	A
2	158	405	584	0.271	158	0.4	8.440	A
3	364	70	984	0.370	364	0.6	5.800	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	558	53	861	0.648	555	1.8	11.674	B
2	194	495	538	0.360	193	0.6	10.410	B
3	446	86	974	0.458	445	0.8	6.798	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	558	53	861	0.648	558	1.8	11.876	B
2	194	498	537	0.361	194	0.6	10.489	B
3	446	86	973	0.458	446	0.8	6.825	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	456	43	866	0.526	458	1.1	8.884	A
2	158	409	582	0.272	159	0.4	8.520	A
3	364	70	983	0.370	365	0.6	5.830	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	382	36	870	0.438	383	0.8	7.408	A
2	133	342	616	0.215	133	0.3	7.452	A
3	305	59	991	0.308	305	0.4	5.255	A

2031 Base (behavioural), PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 90% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	10.97	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	393	100.000
2		✓	116	100.000
3		✓	658	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	2	96	295
2	67	0	49
3	554	102	2

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	0	2
2	0	0	0
3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.52	8.86	1.1	A
2	0.20	7.25	0.3	A
3	0.72	12.87	2.5	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	296	78	861	0.344	294	0.5	6.326	A
2	87	224	678	0.129	87	0.1	6.084	A
3	495	52	1019	0.486	492	0.9	6.775	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	353	93	852	0.415	353	0.7	7.204	A
2	104	268	655	0.159	104	0.2	6.531	A
3	592	62	1012	0.584	590	1.4	8.481	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	433	114	839	0.516	431	1.0	8.793	A
2	128	328	625	0.204	127	0.3	7.233	A
3	724	76	1003	0.722	720	2.5	12.521	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	433	114	839	0.516	433	1.1	8.859	A
2	128	329	624	0.205	128	0.3	7.246	A
3	724	76	1003	0.722	724	2.5	12.866	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	353	94	851	0.415	355	0.7	7.271	A
2	104	270	654	0.159	105	0.2	6.551	A

3	592	62	1012	0.584	596	1.4	8.738	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	296	79	860	0.344	297	0.5	6.396	A
2	87	226	677	0.129	87	0.1	6.113	A
3	495	52	1019	0.486	497	1.0	6.926	A

2031 Base (core) + Com Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 81% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	19.86	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	628	100.000
2		✓	285	100.000
3		✓	580	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	59	568
	2	94	0	191
	3	461	119	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	5	3
2	0	0	0
3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.84	27.19	5.0	D
2	0.66	22.40	1.9	C
3	0.66	10.73	1.9	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	89	844	0.560	468	1.2	9.459	A
2	214	424	575	0.373	212	0.6	9.847	A
3	437	71	996	0.438	433	0.8	6.370	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	107	833	0.677	562	2.0	13.087	B
2	256	508	532	0.481	255	0.9	12.911	B
3	521	85	986	0.529	520	1.1	7.698	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	692	130	820	0.844	681	4.6	24.271	C
2	314	617	477	0.657	310	1.8	21.072	C
3	638	103	974	0.655	635	1.8	10.540	B

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	692	131	819	0.844	690	5.0	27.188	D
2	314	625	473	0.663	313	1.9	22.404	C
3	638	104	973	0.656	638	1.9	10.735	B

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	108	833	0.678	576	2.2	14.541	B
2	256	521	526	0.487	260	1.0	13.704	B
3	521	86	985	0.529	524	1.1	7.858	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	90	843	0.561	476	1.3	9.907	A
2	214	431	571	0.375	216	0.6	10.164	B

3	437	72	995	0.439	438	0.8	6.480	A

2031 Base (core) + Com Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 86% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	29.27	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	511	100.000
2		✓	206	100.000
3		✓	848	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	408
	2	75	0	131
	3	680	166	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.70	15.08	2.3	C
2	0.40	10.74	0.7	B
3	0.93	42.25	10.2	E

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	384	126	835	0.460	381	0.8	7.874	A
2	155	308	636	0.244	154	0.3	7.452	A
3	638	58	1021	0.625	632	1.6	9.099	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	150	820	0.560	457	1.2	9.880	A
2	185	370	605	0.307	185	0.4	8.565	A
3	762	69	1014	0.752	757	2.9	13.778	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	562	181	802	0.701	558	2.2	14.526	B
2	227	451	564	0.403	226	0.7	10.633	B
3	934	85	1003	0.931	910	8.8	32.458	D

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	562	184	800	0.703	562	2.3	15.080	C
2	227	454	562	0.404	227	0.7	10.735	B
3	934	85	1003	0.931	928	10.2	42.249	E

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	157	816	0.562	463	1.3	10.302	B
2	185	374	602	0.308	186	0.5	8.668	A
3	762	70	1013	0.752	790	3.2	17.887	C

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	384	128	833	0.461	386	0.9	8.083	A
2	155	312	634	0.245	156	0.3	7.541	A
3	638	58	1021	0.625	644	1.7	9.710	A

2031 Base (behavioural) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	17.48	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	607	100.000
2		✓	277	100.000
3		✓	563	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	1	57	549
2	91	0	187
3	446	117	0

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	5	3
2	0	0	0
3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.81	23.15	4.1	C
2	0.63	20.14	1.7	C
3	0.64	10.10	1.7	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	457	87	845	0.541	452	1.2	9.074	A
2	209	410	582	0.359	207	0.6	9.529	A
3	424	68	998	0.425	421	0.7	6.213	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	105	835	0.654	543	1.8	12.231	B
2	249	492	541	0.461	248	0.8	12.264	B
3	506	82	988	0.512	505	1.0	7.425	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	668	128	821	0.814	660	3.9	21.297	C
2	306	598	487	0.628	302	1.6	19.213	C
3	620	100	977	0.635	617	1.7	9.946	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	668	129	821	0.814	668	4.1	23.154	C
2	306	605	483	0.632	305	1.7	20.144	C
3	620	101	976	0.635	620	1.7	10.101	B

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	106	834	0.654	554	2.0	13.233	B
2	249	502	535	0.466	253	0.9	12.854	B
3	506	83	988	0.513	509	1.1	7.561	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	457	88	844	0.541	460	1.2	9.443	A
2	209	417	579	0.361	210	0.6	9.799	A
3	424	69	997	0.425	425	0.7	6.313	A

2031 Base (behavioural) + Com Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 86% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	23.95	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	496	100.000
2		✓	202	100.000
3		✓	823	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	96	397
	2	73	0	129
	3	659	163	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.68	14.00	2.1	B
2	0.39	10.39	0.6	B
3	0.90	33.21	7.8	D

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	123	837	0.446	370	0.8	7.665	A
2	152	300	640	0.237	151	0.3	7.341	A
3	620	56	1023	0.606	614	1.5	8.681	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	446	147	822	0.542	444	1.2	9.488	A
2	181	360	610	0.298	181	0.4	8.387	A
3	740	67	1015	0.729	736	2.6	12.689	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	178	804	0.679	542	2.0	13.578	B
2	222	439	570	0.390	221	0.6	10.307	B
3	906	82	1005	0.902	889	7.0	27.404	D

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	181	802	0.680	546	2.1	13.999	B
2	222	442	569	0.391	222	0.6	10.394	B
3	906	82	1005	0.902	903	7.8	33.205	D

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	446	152	819	0.544	449	1.2	9.815	A
2	181	364	608	0.299	182	0.4	8.476	A
3	740	67	1015	0.729	760	2.8	15.112	C

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	125	835	0.447	375	0.8	7.846	A
2	152	304	638	0.238	152	0.3	7.422	A
3	620	56	1022	0.606	625	1.6	9.166	A

2031 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 81% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	21.41	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)

D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	639	100.000
2		✓	285	100.000
3		✓	608	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	59	579
	2	94	0	191
	3	489	119	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.86	29.74	5.5	D
2	0.67	23.28	2.0	C
3	0.69	11.83	2.2	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	89	844	0.571	476	1.3	9.663	A
2	214	432	571	0.375	212	0.6	9.962	A
3	458	71	995	0.460	454	0.8	6.614	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	575	107	834	0.690	572	2.1	13.561	B
2	256	518	527	0.486	255	0.9	13.143	B
3	547	85	986	0.554	545	1.2	8.140	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	704	130	820	0.859	692	5.1	26.034	D

2	314	628	472	0.665	310	1.9	21.760	C
3	669	103	974	0.687	666	2.1	11.555	B

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	704	131	819	0.859	702	5.5	29.743	D
2	314	637	467	0.672	313	2.0	23.279	C
3	669	104	973	0.688	669	2.2	11.831	B

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	575	108	833	0.690	587	2.3	15.347	C
2	256	533	520	0.492	260	1.0	14.039	B
3	547	86	985	0.555	550	1.3	8.350	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	90	843	0.571	485	1.4	10.164	B
2	214	440	567	0.378	216	0.6	10.298	B
3	458	72	994	0.460	459	0.9	6.747	A

2031 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 87% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	32.75	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	536	100.000
2		✓	206	100.000
3		✓	860	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	434
	2	75	0	131
	3	692	166	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	1
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.73	16.77	2.7	C
2	0.41	11.16	0.7	B
3	0.94	47.76	11.8	E

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	404	126	839	0.481	400	0.9	8.143	A
2	155	327	627	0.248	154	0.3	7.589	A
3	648	58	1021	0.634	641	1.7	9.310	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	482	150	824	0.585	480	1.4	10.429	B
2	185	392	594	0.312	185	0.4	8.781	A
3	774	69	1014	0.763	768	3.0	14.350	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	590	180	806	0.733	585	2.6	15.985	C
2	227	479	551	0.412	226	0.7	11.036	B
3	947	85	1003	0.944	920	9.8	35.257	E

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	590	184	804	0.735	590	2.7	16.771	C
2	227	482	549	0.413	227	0.7	11.159	B
3	947	85	1003	0.945	940	11.8	47.757	E

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	482	158	819	0.588	487	1.5	10.984	B
2	185	398	592	0.313	186	0.5	8.904	A
3	774	70	1013	0.763	807	3.5	19.790	C

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	404	128	837	0.482	406	0.9	8.387	A
2	155	332	625	0.248	156	0.3	7.685	A
3	648	58	1021	0.635	654	1.8	9.997	A

2031 Base (behavioural) + Com Dev + Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 81% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	18.71	C

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	619	100.000
2		✓	277	100.000
3		✓	591	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	561
	2	91	0	187
	3	474	117	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	5	3
2	0	0	0
3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.83	25.09	4.5	D
2	0.64	20.88	1.7	C
3	0.67	11.06	2.0	B

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	466	87	845	0.551	461	1.2	9.268	A
2	209	418	578	0.361	207	0.6	9.634	A
3	445	68	997	0.446	442	0.8	6.446	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	556	105	835	0.666	553	1.9	12.657	B
2	249	502	535	0.466	248	0.9	12.482	B
3	531	82	988	0.538	530	1.1	7.832	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	681	128	821	0.829	672	4.3	22.748	C
2	306	610	481	0.635	302	1.6	19.817	C
3	651	100	976	0.666	647	1.9	10.844	B

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	681	129	821	0.830	680	4.5	25.091	D
2	306	617	477	0.641	305	1.7	20.878	C
3	651	101	976	0.667	651	2.0	11.060	B

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	556	106	834	0.667	566	2.1	13.870	B
2	249	514	530	0.471	253	0.9	13.144	B
3	531	83	987	0.538	534	1.2	8.006	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	466	88	844	0.552	469	1.3	9.678	A
2	209	426	574	0.364	210	0.6	9.924	A

3	445	69	996	0.447	446	0.8	6.561	A

2031 Base (behavioural) + Com Dev + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 3 have 87% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout		1, 2, 3	26.45	D

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	521	100.000
2		✓	202	100.000
3		✓	836	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	2	96	423
2	73	0	129
3	671	163	2

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	0	1
2	0	0	0
3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.71	15.47	2.4	C
2	0.40	10.80	0.7	B
3	0.92	36.99	8.8	E

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	123	840	0.467	389	0.9	7.922	A
2	152	319	631	0.241	151	0.3	7.472	A
3	629	56	1023	0.615	623	1.6	8.869	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	469	147	826	0.568	467	1.3	9.992	A
2	181	383	599	0.303	181	0.4	8.596	A
3	751	67	1015	0.740	747	2.7	13.171	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	574	177	808	0.711	570	2.3	14.878	B
2	222	467	557	0.399	221	0.7	10.690	B
3	920	82	1005	0.915	900	7.8	29.593	D

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	574	180	806	0.713	574	2.4	15.471	C
2	222	470	556	0.400	222	0.7	10.797	B
3	920	82	1005	0.915	916	8.8	36.988	E

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	469	153	822	0.570	473	1.4	10.421	B
2	181	387	597	0.304	182	0.4	8.701	A
3	751	67	1015	0.740	774	3.0	16.241	C

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	125	839	0.468	394	0.9	8.134	A
2	152	323	629	0.242	152	0.3	7.559	A
3	629	56	1022	0.615	635	1.6	9.411	A

Junctions 9

ARCADY 9 - Roundabout Module

Version: 9.5.2.1013
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Filename: Bilsham Road (With Mit).j9
Path: C:\Users\AliceHowse\Highgate Transportation\HTp - Documents\2400 - Projects\2413 - Yapton Road, Barnham\Modelling\Junctions 9\Bilsham Road_B2233 Mini Roundabout
Report generation date: 05/01/2026 14:08:20

»2026 Base (core), AM
»2026 Base (core), PM
»2026 Base (core) + Com Dev, AM
»2026 Base (core) + Com Dev, PM
»2026 Base (core) + Com Dev + Dev, AM
»2026 Base (core) + Com Dev + Dev, PM
»2031 Base (core), AM
»2031 Base (core), PM
»2031 Base (behavioural), AM
»2031 Base (behavioural), PM
»2031 Base (core) + Com Dev, AM
»2031 Base (core) + Com Dev, PM
»2031 Base (behavioural) + Com Dev, AM
»2031 Base (behavioural) + Com Dev, PM
»2031 Base (core) + Com Dev + Dev, AM
»2031 Base (core) + Com Dev + Dev, PM
»2031 Base (behavioural) + Com Dev + Dev, AM
»2031 Base (behavioural) + Com Dev + Dev, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (Veh)	Delay (s)	RFC	LOS	Set ID	Queue (Veh)	Delay (s)	RFC	LOS
	2026 Base (core)									
Arm 1	D1	0.9	5.68	0.47	A	D2	0.6	4.82	0.36	A
Arm 2		0.2	3.52	0.16	A		0.1	3.00	0.10	A
Arm 3		0.6	4.68	0.37	A		1.3	6.77	0.57	A
	2026 Base (core) + Com Dev									
Arm 1	D3	1.3	7.29	0.57	A	D4	0.8	5.84	0.46	A
Arm 2		0.4	4.25	0.26	A		0.2	3.44	0.17	A
Arm 3		1.0	5.83	0.49	A		2.4	9.94	0.71	A
	2026 Base (core) + Com Dev + Dev									
Arm 1	D5	1.4	7.47	0.58	A	D6	0.9	6.11	0.48	A
Arm 2		0.4	4.29	0.27	A		0.2	3.50	0.18	A
Arm 3		1.1	6.15	0.52	A		2.5	10.31	0.72	B
	2031 Base (core)									
Arm 1	D7	1.0	5.94	0.49	A	D8	0.6	4.98	0.38	A
Arm 2		0.2	3.61	0.17	A		0.1	3.04	0.10	A
Arm 3		0.6	4.83	0.38	A		1.5	7.29	0.60	A
	2031 Base (behavioural)									
Arm 1	D9	0.9	5.71	0.47	A	D10	0.6	4.85	0.37	A
Arm 2		0.2	3.53	0.16	A		0.1	3.01	0.10	A
Arm 3		0.6	4.70	0.37	A		1.4	6.90	0.58	A
	2031 Base (core) + Com Dev									
Arm 1	D11	1.5	7.84	0.60	A	D12	1.0	6.25	0.49	A
Arm 2		0.4	4.41	0.28	A		0.2	3.53	0.18	A
Arm 3		1.1	6.23	0.53	A		2.9	11.42	0.75	B
	2031 Base (behavioural) + Com Dev									
Arm 1	D13	1.4	7.44	0.58	A	D14	0.9	6.06	0.48	A
Arm 2		0.4	4.30	0.27	A		0.2	3.49	0.18	A

Arm 3		1.0	6.02	0.51	A		2.6	10.46	0.73	B
2031 Base (core) + Com Dev + Dev										
Arm 1	D15	1.6	8.05	0.61	A	D16	1.1	6.52	0.52	A
Arm 2		0.4	4.45	0.28	A		0.2	3.59	0.18	A
Arm 3		1.2	6.59	0.55	A		3.1	11.93	0.76	B
2031 Base (behavioural) + Com Dev + Dev										
Arm 1	D17	1.4	7.65	0.59	A	D18	1.0	6.31	0.50	A
Arm 2		0.4	4.34	0.27	A		0.2	3.55	0.18	A
Arm 3		1.1	6.35	0.53	A		2.7	10.89	0.74	B

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

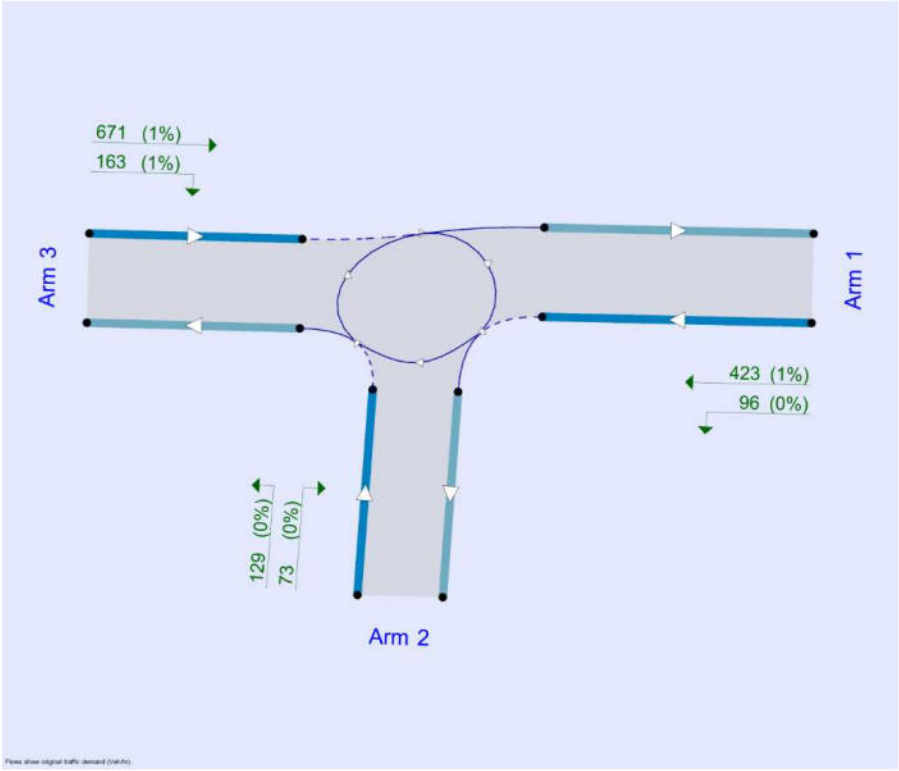
File summary

File Description

Title	
Location	Bilsham Road_B2233 Mini Roundabout
Site number	
Date	05/01/2025
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	AH
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	Veh	Veh	perHour	s	-Min	perMin



The junction diagram reflects the last run of Junctions.

Analysis Options

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

D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2026 Base (core), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description
1	B2233 East	
2	Bilsham Road	
3	B2233 West	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	l' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only

1	3.40	4.60	10.9	9.0	20.0	22.0	
2	3.70	5.60	13.5	15.0	20.0	21.5	
3	3.30	4.50	8.1	16.0	20.0	10.3	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.563	1257
2	0.635	1538
3	0.603	1317

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

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)
D1	2026 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	504	100.000
2		✓	174	100.000
3		✓	403	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	1	55	448
2	76	0	98
3	355	48	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	6	3
2	0	0	0
3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.47	5.68	0.9	A
2	0.16	3.52	0.2	A
3	0.37	4.68	0.6	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	379	36	1197	0.317	378	0.5	4.381	A
2	131	336	1318	0.099	131	0.1	3.032	A
3	303	58	1228	0.247	302	0.3	3.884	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	453	43	1194	0.380	453	0.6	4.853	A
2	156	403	1274	0.123	156	0.1	3.219	A
3	362	69	1221	0.297	362	0.4	4.188	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	555	53	1188	0.467	554	0.9	5.665	A
2	192	493	1215	0.158	191	0.2	3.515	A
3	444	85	1212	0.366	443	0.6	4.677	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	555	53	1188	0.467	555	0.9	5.683	A
2	192	494	1215	0.158	192	0.2	3.517	A
3	444	85	1212	0.366	444	0.6	4.685	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	453	43	1194	0.380	454	0.6	4.874	A
2	156	405	1273	0.123	157	0.1	3.223	A
3	362	69	1221	0.297	363	0.4	4.199	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	379	36	1197	0.317	380	0.5	4.409	A
2	131	339	1317	0.100	131	0.1	3.038	A
3	303	58	1228	0.247	304	0.3	3.900	A

2026 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.74	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2026 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	389	100.000
2		✓	115	100.000
3		✓	649	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	95	292
	2	66	0	49
	3	547	100	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.36	4.82	0.6	A
2	0.10	3.00	0.1	A
3	0.57	6.77	1.3	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	76	1196	0.245	292	0.3	3.976	A
2	87	222	1394	0.062	86	0.1	2.752	A
3	489	51	1261	0.388	486	0.6	4.633	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	92	1187	0.295	349	0.4	4.295	A
2	103	266	1366	0.076	103	0.1	2.850	A
3	583	61	1255	0.465	583	0.9	5.347	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	112	1176	0.364	428	0.6	4.809	A
2	127	325	1327	0.095	127	0.1	2.997	A
3	715	75	1247	0.573	713	1.3	6.720	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	112	1175	0.364	428	0.6	4.818	A
2	127	326	1327	0.095	127	0.1	2.998	A
3	715	75	1247	0.573	715	1.3	6.766	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	350	92	1187	0.295	350	0.4	4.306	A
2	103	267	1365	0.076	103	0.1	2.852	A
3	583	61	1255	0.465	585	0.9	5.394	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	293	77	1195	0.245	293	0.3	3.993	A
2	87	223	1394	0.062	87	0.1	2.756	A
3	489	51	1261	0.388	490	0.6	4.674	A

2026 Base (core) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.15	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D3	2026 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	598	100.000
2		✓	276	100.000
3		✓	545	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	540
	2	90	0	186
	3	429	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.57	7.29	1.3	A
2	0.26	4.25	0.4	A
3	0.49	5.83	1.0	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	87	1174	0.383	448	0.6	4.935	A
2	208	405	1274	0.163	207	0.2	3.372	A
3	410	68	1236	0.332	408	0.5	4.337	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	537	105	1165	0.461	536	0.8	5.719	A
2	248	485	1222	0.203	248	0.3	3.697	A
3	490	82	1229	0.399	489	0.7	4.867	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	658	128	1152	0.571	656	1.3	7.231	A
2	304	594	1151	0.264	304	0.4	4.246	A
3	600	100	1218	0.493	599	1.0	5.805	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	658	128	1152	0.571	658	1.3	7.287	A
2	304	595	1150	0.264	304	0.4	4.255	A
3	600	100	1218	0.493	600	1.0	5.829	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	537	105	1165	0.461	539	0.9	5.770	A
2	248	488	1220	0.204	249	0.3	3.709	A
3	490	82	1228	0.399	491	0.7	4.893	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	88	1174	0.383	451	0.6	4.985	A
2	208	408	1272	0.163	208	0.2	3.383	A
3	410	69	1236	0.332	411	0.5	4.368	A

2026 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	7.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D4	2026 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	476	100.000
2		✓	201	100.000
3		✓	807	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	95	379
	2	72	0	129
	3	644	161	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.46	5.84	0.8	A
2	0.17	3.44	0.2	A
3	0.71	9.94	2.4	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	358	122	1173	0.306	357	0.4	4.401	A
2	151	287	1353	0.112	151	0.1	2.992	A
3	608	56	1266	0.480	604	0.9	5.412	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	146	1159	0.369	427	0.6	4.913	A
2	181	344	1316	0.137	181	0.2	3.169	A
3	725	66	1259	0.576	724	1.3	6.703	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	524	179	1141	0.459	523	0.8	5.815	A
2	221	421	1267	0.175	221	0.2	3.443	A
3	889	81	1250	0.711	884	2.4	9.728	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	524	179	1141	0.459	524	0.8	5.837	A
2	221	422	1266	0.175	221	0.2	3.445	A
3	889	81	1250	0.711	888	2.4	9.936	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	428	147	1159	0.369	429	0.6	4.941	A
2	181	345	1315	0.137	181	0.2	3.175	A
3	725	67	1259	0.576	730	1.4	6.853	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	358	123	1172	0.306	359	0.4	4.430	A
2	151	289	1352	0.112	151	0.1	3.001	A

3	608	56	1265	0.480	609	0.9	5.503	A

2026 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.36	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2026 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	609	100.000
2		✓	276	100.000
3		✓	574	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	551
	2	90	0	186
	3	457	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.58	7.47	1.4	A
2	0.27	4.29	0.4	A
3	0.52	6.15	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	458	88	1174	0.390	456	0.6	4.994	A
2	208	413	1269	0.164	207	0.2	3.389	A
3	432	68	1236	0.350	430	0.5	4.455	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	547	105	1165	0.470	547	0.9	5.812	A
2	248	495	1215	0.204	248	0.3	3.721	A
3	516	82	1228	0.420	515	0.7	5.045	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	671	129	1152	0.582	669	1.4	7.417	A
2	304	606	1143	0.266	303	0.4	4.285	A
3	632	100	1217	0.519	631	1.1	6.120	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	671	129	1152	0.582	670	1.4	7.475	A
2	304	608	1142	0.266	304	0.4	4.295	A
3	632	100	1217	0.519	632	1.1	6.150	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	547	105	1165	0.470	549	0.9	5.869	A
2	248	498	1213	0.204	249	0.3	3.731	A
3	516	82	1228	0.420	517	0.7	5.077	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	458	88	1174	0.391	459	0.6	5.046	A
2	208	416	1267	0.164	208	0.2	3.400	A
3	432	69	1236	0.350	433	0.5	4.488	A

2026 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	8.04	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2026 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	501	100.000
2		✓	201	100.000
3		✓	819	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	2	95	404
2	72	0	129
3	656	161	2

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	0	2
2	0	0	0
3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.48	6.11	0.9	A
2	0.18	3.50	0.2	A
3	0.72	10.31	2.5	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	377	122	1173	0.322	375	0.5	4.507	A
2	151	306	1341	0.113	151	0.1	3.023	A
3	617	56	1266	0.487	613	0.9	5.485	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	146	1159	0.389	450	0.6	5.070	A
2	181	366	1302	0.139	181	0.2	3.210	A
3	736	66	1259	0.585	734	1.4	6.838	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	552	179	1141	0.483	550	0.9	6.083	A
2	221	448	1249	0.177	221	0.2	3.502	A
3	902	81	1250	0.721	897	2.5	10.073	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	552	179	1141	0.484	552	0.9	6.112	A
2	221	449	1248	0.177	221	0.2	3.504	A
3	902	81	1250	0.721	902	2.5	10.310	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	450	147	1159	0.389	452	0.6	5.100	A
2	181	368	1301	0.139	181	0.2	3.214	A
3	736	67	1259	0.585	741	1.4	7.004	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	377	123	1172	0.322	378	0.5	4.535	A
2	151	308	1340	0.113	151	0.1	3.032	A
3	617	56	1265	0.487	618	1.0	5.579	A

2031 Base (core), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.16	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D7	2031 Base (core)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	528	100.000
2		✓	183	100.000
3		✓	422	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	470
	2	80	0	103
	3	372	50	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	6	3
	2	0	0	0
	3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.49	5.94	1.0	A
2	0.17	3.61	0.2	A
3	0.38	4.83	0.6	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	398	37	1197	0.332	396	0.5	4.483	A
2	138	353	1307	0.105	137	0.1	3.075	A
3	318	61	1226	0.259	316	0.3	3.952	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	475	45	1193	0.398	474	0.7	5.005	A
2	165	423	1261	0.130	164	0.1	3.281	A
3	379	73	1219	0.311	379	0.4	4.284	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	581	55	1187	0.490	580	0.9	5.921	A
2	201	518	1200	0.168	201	0.2	3.606	A
3	465	89	1210	0.384	464	0.6	4.824	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	581	55	1187	0.490	581	1.0	5.942	A
2	201	519	1199	0.168	201	0.2	3.608	A
3	465	89	1209	0.384	465	0.6	4.832	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	475	45	1193	0.398	476	0.7	5.032	A
2	165	424	1260	0.131	165	0.2	3.287	A
3	379	73	1219	0.311	380	0.5	4.294	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	398	38	1197	0.332	398	0.5	4.514	A
2	138	355	1306	0.106	138	0.1	3.082	A
3	318	61	1226	0.259	318	0.4	3.969	A

2031 Base (core), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D8	2031 Base (core)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	408	100.000
2		✓	120	100.000
3		✓	682	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	306
	2	69	0	51
	3	575	105	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.38	4.98	0.6	A
2	0.10	3.04	0.1	A
3	0.60	7.29	1.5	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	307	80	1194	0.257	306	0.3	4.049	A
2	90	232	1388	0.065	90	0.1	2.774	A
3	513	53	1259	0.408	511	0.7	4.792	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	96	1185	0.310	366	0.4	4.398	A
2	108	278	1358	0.079	108	0.1	2.879	A
3	613	64	1253	0.489	612	0.9	5.606	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	449	117	1172	0.383	449	0.6	4.969	A
2	132	341	1317	0.100	132	0.1	3.036	A
3	751	78	1245	0.603	749	1.5	7.227	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	449	118	1172	0.383	449	0.6	4.978	A

2	132	341	1317	0.100	132	0.1	3.037	A
3	751	78	1245	0.603	751	1.5	7.288	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	367	97	1184	0.310	367	0.5	4.412	A
2	108	279	1357	0.079	108	0.1	2.883	A
3	613	64	1253	0.489	615	1.0	5.665	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	307	81	1193	0.257	308	0.3	4.066	A
2	90	234	1387	0.065	90	0.1	2.776	A
3	513	53	1259	0.408	515	0.7	4.843	A

2031 Base (behavioural), AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	4.99	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D9	2031 Base (behavioural)	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	507	100.000
2		✓	176	100.000
3		✓	405	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To			
		1	2	3
	1	1	55	451
	2	77	0	99
	3	357	48	0

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	6	3
2	0	0	0
3	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.47	5.71	0.9	A
2	0.16	3.53	0.2	A
3	0.37	4.70	0.6	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	382	36	1197	0.319	380	0.5	4.393	A
2	133	339	1317	0.101	132	0.1	3.039	A
3	305	59	1227	0.248	304	0.3	3.892	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	456	43	1194	0.382	455	0.6	4.871	A
2	158	406	1273	0.124	158	0.1	3.229	A
3	364	70	1221	0.298	364	0.4	4.199	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	558	53	1188	0.470	557	0.9	5.694	A
2	194	497	1213	0.160	194	0.2	3.530	A
3	446	86	1211	0.368	445	0.6	4.694	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	558	53	1188	0.470	558	0.9	5.712	A
2	194	498	1213	0.160	194	0.2	3.532	A
3	446	86	1211	0.368	446	0.6	4.702	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	456	43	1194	0.382	457	0.6	4.892	A
2	158	407	1272	0.124	158	0.1	3.233	A
3	364	70	1220	0.298	365	0.4	4.211	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	382	36	1197	0.319	382	0.5	4.421	A
2	133	341	1315	0.101	133	0.1	3.046	A

3	305	59	1227	0.248	305	0.3	3.908	A

2031 Base (behavioural), PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	5.83	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D10	2031 Base (behavioural)	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	393	100.000
2		✓	116	100.000
3		✓	658	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	96	295
	2	67	0	49
	3	554	102	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	2	2	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.37	4.85	0.6	A
2	0.10	3.01	0.1	A

3	0.58	6.90	1.4	A

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	296	78	1195	0.248	295	0.3	3.993	A
2	87	224	1393	0.063	87	0.1	2.756	A
3	495	52	1260	0.393	493	0.6	4.677	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	353	93	1186	0.298	353	0.4	4.318	A
2	104	269	1364	0.076	104	0.1	2.856	A
3	592	62	1254	0.472	591	0.9	5.417	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	433	114	1174	0.368	432	0.6	4.846	A
2	128	329	1325	0.096	128	0.1	3.005	A
3	724	76	1246	0.581	723	1.4	6.851	A

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	433	114	1174	0.369	433	0.6	4.854	A
2	128	329	1325	0.096	128	0.1	3.006	A
3	724	76	1246	0.581	724	1.4	6.903	A

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	353	94	1186	0.298	354	0.4	4.331	A
2	104	269	1364	0.076	104	0.1	2.858	A
3	592	62	1254	0.472	593	0.9	5.466	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	296	78	1195	0.248	296	0.3	4.009	A
2	87	225	1392	0.063	87	0.1	2.758	A
3	495	52	1260	0.393	496	0.7	4.719	A

2031 Base (core) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.57	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D11	2031 Base (core) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	628	100.000
2		✓	285	100.000
3		✓	580	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	59	568
	2	94	0	191
	3	461	119	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.60	7.84	1.5	A
2	0.28	4.41	0.4	A
3	0.53	6.23	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	89	1174	0.403	470	0.7	5.099	A
2	214	426	1261	0.170	214	0.2	3.438	A
3	437	71	1235	0.353	434	0.5	4.484	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	107	1164	0.485	564	0.9	5.985	A
2	256	510	1205	0.212	256	0.3	3.790	A
3	521	85	1227	0.425	521	0.7	5.090	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	692	131	1151	0.601	689	1.5	7.764	A
2	314	624	1131	0.277	313	0.4	4.398	A
3	638	104	1216	0.525	637	1.1	6.204	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	692	131	1151	0.601	692	1.5	7.837	A
2	314	626	1130	0.277	314	0.4	4.408	A
3	638	104	1216	0.525	638	1.1	6.234	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	565	107	1164	0.485	567	1.0	6.052	A
2	256	513	1204	0.213	256	0.3	3.801	A
3	521	85	1227	0.425	523	0.7	5.123	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	473	90	1173	0.403	474	0.7	5.155	A
2	214	429	1258	0.170	215	0.2	3.451	A
3	437	71	1235	0.353	437	0.6	4.518	A

2031 Base (core) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	8.70	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D12	2031 Base (core) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	511	100.000
2		✓	206	100.000
3		✓	848	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	408
	2	75	0	131
	3	680	166	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.49	6.25	1.0	A
2	0.18	3.53	0.2	A
3	0.75	11.42	2.9	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	384	126	1171	0.328	382	0.5	4.554	A
2	155	309	1339	0.116	155	0.1	3.038	A
3	638	58	1264	0.505	634	1.0	5.680	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	151	1157	0.397	458	0.7	5.149	A
2	185	370	1299	0.143	185	0.2	3.231	A
3	762	69	1257	0.606	760	1.5	7.214	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	562	184	1138	0.494	561	1.0	6.222	A
2	227	453	1246	0.182	227	0.2	3.533	A
3	934	85	1248	0.748	928	2.8	11.074	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service

1	562	185	1138	0.494	562	1.0	6.255	A
2	227	454	1245	0.182	227	0.2	3.535	A
3	934	85	1248	0.748	933	2.9	11.416	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	459	152	1156	0.397	460	0.7	5.181	A
2	185	372	1298	0.143	186	0.2	3.238	A
3	762	70	1257	0.606	768	1.6	7.428	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	384	127	1170	0.328	385	0.5	4.588	A
2	155	311	1337	0.116	155	0.1	3.045	A
3	638	58	1264	0.505	641	1.0	5.793	A

2031 Base (behavioural) + Com Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.29	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D13	2031 Base (behavioural) + Com Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	607	100.000
2		✓	277	100.000
3		✓	563	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	549
	2	91	0	187
	3	446	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.58	7.44	1.4	A
2	0.27	4.30	0.4	A
3	0.51	6.02	1.0	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	457	88	1175	0.389	455	0.6	4.983	A
2	209	412	1270	0.165	208	0.2	3.390	A
3	424	69	1237	0.343	422	0.5	4.406	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	105	1165	0.468	545	0.9	5.793	A
2	249	494	1216	0.205	249	0.3	3.721	A
3	506	82	1229	0.412	505	0.7	4.969	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	668	128	1152	0.580	666	1.4	7.381	A
2	306	604	1145	0.267	305	0.4	4.286	A
3	620	101	1218	0.509	619	1.0	5.989	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	668	129	1152	0.580	668	1.4	7.439	A
2	306	606	1144	0.267	306	0.4	4.295	A
3	620	101	1218	0.509	620	1.0	6.016	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	105	1165	0.469	548	0.9	5.850	A
2	249	496	1215	0.205	250	0.3	3.734	A
3	506	82	1229	0.412	507	0.7	4.999	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	457	88	1174	0.389	458	0.6	5.034	A
2	209	415	1268	0.165	209	0.2	3.400	A

3	424	69	1237	0.343	425	0.5	4.437	A

2031 Base (behavioural) + Com Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	8.11	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D14	2031 Base (behavioural) + Com Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	496	100.000
2		✓	202	100.000
3		✓	823	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	96	397
	2	73	0	129
	3	659	163	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	2
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.48	6.06	0.9	A
2	0.18	3.49	0.2	A
3	0.73	10.46	2.6	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	123	1173	0.318	371	0.5	4.482	A
2	152	301	1344	0.113	151	0.1	3.016	A
3	620	56	1265	0.490	616	0.9	5.512	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	446	148	1159	0.385	445	0.6	5.038	A
2	181	360	1306	0.139	181	0.2	3.201	A
3	740	67	1259	0.588	738	1.4	6.890	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	180	1141	0.479	545	0.9	6.032	A
2	222	441	1254	0.177	222	0.2	3.489	A
3	906	82	1250	0.725	902	2.5	10.211	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	546	181	1140	0.479	546	0.9	6.057	A
2	222	442	1253	0.177	222	0.2	3.491	A
3	906	82	1250	0.725	906	2.6	10.460	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	446	149	1158	0.385	447	0.6	5.069	A
2	181	362	1305	0.139	182	0.2	3.207	A
3	740	67	1259	0.588	745	1.5	7.061	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	373	124	1172	0.318	374	0.5	4.513	A
2	152	303	1343	0.113	152	0.1	3.023	A
3	620	56	1265	0.490	622	1.0	5.610	A

2031 Base (core) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D15	2031 Base (core) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	639	100.000
2		✓	285	100.000
3		✓	608	100.000

Origin-Destination Data

Demand (Veh/hr)

From \ To	1	2	3
1	1	59	579
2	94	0	191
3	489	119	0

Vehicle Mix

Heavy Vehicle Percentages

From \ To	1	2	3
1	0	5	3
2	0	0	0
3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.61	8.05	1.6	A
2	0.28	4.45	0.4	A
3	0.55	6.59	1.2	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	89	1174	0.410	479	0.7	5.156	A
2	214	434	1255	0.171	214	0.2	3.451	A
3	458	71	1235	0.371	455	0.6	4.605	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	575	107	1164	0.494	574	1.0	6.088	A
2	256	520	1199	0.214	256	0.3	3.817	A
3	547	85	1227	0.446	546	0.8	5.280	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	704	131	1151	0.612	702	1.5	7.972	A
2	314	637	1123	0.279	313	0.4	4.442	A
3	669	104	1215	0.551	668	1.2	6.553	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	704	131	1151	0.612	704	1.6	8.054	A
2	314	639	1122	0.279	314	0.4	4.453	A
3	669	104	1215	0.551	669	1.2	6.592	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	575	107	1164	0.494	577	1.0	6.162	A
2	256	524	1197	0.214	256	0.3	3.828	A
3	547	85	1226	0.446	548	0.8	5.321	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	481	90	1173	0.410	483	0.7	5.219	A
2	214	438	1253	0.171	215	0.2	3.470	A
3	458	71	1235	0.371	459	0.6	4.645	A

2031 Base (core) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	9.06	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D16	2031 Base (core) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	536	100.000
2		✓	206	100.000
3		✓	860	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	2	100	434
	2	75	0	131
	3	692	166	2

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	0	1
	2	0	0	0
	3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.52	6.52	1.1	A
2	0.18	3.59	0.2	A
3	0.76	11.93	3.1	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	404	126	1176	0.343	402	0.5	4.636	A
2	155	328	1328	0.117	155	0.1	3.067	A
3	648	58	1264	0.512	644	1.0	5.764	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	482	151	1162	0.415	481	0.7	5.283	A
2	185	393	1286	0.144	185	0.2	3.270	A
3	774	69	1257	0.615	771	1.6	7.376	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	590	184	1143	0.516	589	1.1	6.477	A
2	227	481	1229	0.185	227	0.2	3.591	A
3	947	85	1248	0.759	942	3.0	11.534	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	590	185	1143	0.517	590	1.1	6.518	A
2	227	483	1229	0.185	227	0.2	3.593	A
3	947	85	1248	0.759	947	3.1	11.931	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	482	153	1161	0.415	483	0.7	5.323	A
2	185	395	1285	0.144	186	0.2	3.275	A
3	774	70	1257	0.615	779	1.6	7.621	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	404	127	1175	0.343	404	0.5	4.675	A
2	155	331	1326	0.117	155	0.1	3.077	A
3	648	58	1264	0.513	650	1.1	5.884	A

2031 Base (behavioural) + Com Dev + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	6.52	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D17	2031 Base (behavioural) + Com Dev + Dev	AM	ONE HOUR	07:45	09:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	619	100.000
2		✓	277	100.000
3		✓	591	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		1	2	3
From	1	1	57	561
	2	91	0	187
	3	474	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		1	2	3
From	1	0	5	3
	2	0	0	0
	3	4	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.59	7.65	1.4	A
2	0.27	4.34	0.4	A
3	0.53	6.35	1.1	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	466	88	1175	0.397	463	0.7	5.044	A
2	209	421	1264	0.165	208	0.2	3.408	A
3	445	69	1237	0.360	443	0.6	4.521	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	557	105	1165	0.478	556	0.9	5.896	A
2	249	504	1209	0.206	249	0.3	3.749	A
3	531	82	1229	0.432	530	0.8	5.151	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	682	128	1152	0.592	680	1.4	7.582	A
2	306	617	1136	0.269	305	0.4	4.330	A
3	651	101	1218	0.534	649	1.1	6.313	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	682	129	1152	0.592	682	1.4	7.647	A
2	306	619	1135	0.269	306	0.4	4.340	A
3	651	101	1218	0.534	651	1.1	6.346	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	557	105	1165	0.478	559	0.9	5.956	A
2	249	507	1208	0.207	250	0.3	3.759	A
3	531	82	1229	0.432	533	0.8	5.186	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	466	88	1174	0.397	467	0.7	5.099	A
2	209	424	1262	0.166	209	0.2	3.422	A
3	445	69	1236	0.360	446	0.6	4.557	A

2031 Base (behavioural) + Com Dev + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Use circulating lanes	Arm order	Junction Delay (s)	Junction LOS
1	untitled	Standard Roundabout		1, 2, 3	8.42	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D18	2031 Base (behavioural) + Com Dev + Dev	PM	ONE HOUR	16:45	18:15	15

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 (Veh/hr)	Scaling Factor (%)
1		✓	521	100.000
2		✓	202	100.000
3		✓	836	100.000

Origin-Destination Data

Demand (Veh/hr)

From	To		
	1	2	3
1	2	96	423
2	73	0	129
3	671	163	2

Vehicle Mix

Heavy Vehicle Percentages

From	To		
	1	2	3
1	0	0	1
2	0	0	0
3	1	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (Veh)	Max LOS
1	0.50	6.31	1.0	A
2	0.18	3.55	0.2	A
3	0.74	10.89	2.7	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	123	1178	0.333	391	0.5	4.562	A
2	152	320	1333	0.114	151	0.1	3.045	A
3	629	56	1265	0.497	625	1.0	5.590	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	469	148	1164	0.403	468	0.7	5.167	A
2	181	383	1292	0.140	181	0.2	3.240	A
3	751	67	1259	0.597	749	1.5	7.037	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	574	180	1145	0.501	573	1.0	6.272	A
2	222	469	1237	0.180	222	0.2	3.546	A
3	920	82	1250	0.736	915	2.7	10.598	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	574	181	1145	0.501	574	1.0	6.305	A
2	222	470	1236	0.180	222	0.2	3.548	A
3	920	82	1250	0.736	920	2.7	10.885	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	469	149	1163	0.403	470	0.7	5.204	A
2	181	385	1291	0.141	182	0.2	3.247	A

3	751	67	1259	0.597	756	1.5	7.230	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	Unsignalised level of service
1	393	124	1177	0.334	393	0.5	4.596	A
2	152	322	1331	0.114	152	0.1	3.054	A
3	629	56	1265	0.497	631	1.0	5.696	A