

	A43 (N)	9	18	13	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.22	501.95	75.3	F	566	849
A43 (S)	0.96	35.98	19.5	E	1722	2584
B4100 (W)	1.00	89.83	18.5	F	618	926
A43 (N)	1.26	500.28	281.7	F	2055	3082

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	465	116	1587	704	0.659	457	671	0.0	2.0	15.234	C
A43 (S)	1413	353	517	2215	0.638	1405	1527	0.0	2.0	5.104	A
B4100 (W)	507	127	1455	1048	0.484	503	467	0.0	1.0	7.166	A
A43 (N)	1686	421	590	2106	0.800	1668	1367	0.0	4.4	9.203	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1856	577	0.961	525	795	2.0	9.5	55.930	F
A43 (S)	1687	422	596	2166	0.779	1680	1784	2.0	3.9	8.454	A
B4100 (W)	605	151	1731	912	0.663	601	545	1.0	2.1	12.471	B
A43 (N)	2013	503	706	2036	0.989	1945	1626	4.4	21.3	32.854	D

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1900	556	1.221	551	888	9.5	41.5	185.077	F
A43 (S)	2067	517	621	2150	0.961	2018	1829	3.9	16.0	25.393	D
B4100 (W)	741	185	2046	757	0.979	701	594	2.1	12.1	51.288	F
A43 (N)	2465	616	831	1960	1.258	1957	1916	21.3	148.4	163.417	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	679	170	1898	557	1.220	556	899	41.5	72.4	384.963	F
A43 (S)	2067	517	625	2148	0.962	2053	1829	16.0	19.5	35.982	E
B4100 (W)	741	185	2078	741	1.000	715	599	12.1	18.5	89.835	F
A43 (N)	2465	616	847	1950	1.264	1950	1946	148.4	277.3	394.729	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	555	139	1921	546	1.016	543	844	72.4	75.3	501.946	F
A43 (S)	1687	422	617	2153	0.784	1748	1847	19.5	4.4	11.720	B
B4100 (W)	605	151	1800	878	0.689	669	565	18.5	2.6	24.142	C
A43 (N)	2013	503	770	1997	1.008	1995	1699	277.3	281.7	500.280	F

#### 09:00 - 09:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	465	116	1950	532	0.873	525	742	75.3	60.2	466.309	F
<b>A43 (S)</b>	1413	353	606	2160	0.654	1422	1870	4.4	2.2	5.720	A
<b>B4100 (W)</b>	507	127	1499	1026	0.494	513	528	2.6	1.1	7.750	A
<b>A43 (N)</b>	1686	421	601	2100	0.803	2091	1411	281.7	180.3	398.427	F

# 2025 Baseline + Committed + Both Developments, 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	250.83	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-24	B4100(E)	250.83	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D32	2025 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	824	100.000
A43 (S)		ONE HOUR	✓	2241	100.000
B4100 (W)		ONE HOUR	✓	573	100.000
A43 (N)		ONE HOUR	✓	1777	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	188	293	343
	A43 (S)	139	0	162	1940
	B4100 (W)	256	162	18	137
	A43 (N)	268	1401	108	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7
	B4100 (W)	3	10	0	8



	A43 (N)	5	10	9	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.56	829.62	180.8	F	756	1134
A43 (S)	1.14	261.43	163.8	F	2056	3085
B4100 (W)	0.97	78.55	13.1	F	526	789
A43 (N)	0.93	24.62	12.6	C	1631	2446

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	620	155	1265	857	0.724	610	495	0.0	2.6	14.597	B
A43 (S)	1687	422	565	2185	0.772	1673	1310	0.0	3.5	7.367	A
B4100 (W)	431	108	1806	875	0.493	427	432	0.0	1.0	8.451	A
A43 (N)	1338	334	429	2205	0.607	1331	1805	0.0	1.7	4.466	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1512	740	1.001	696	590	2.6	13.8	58.219	F
A43 (S)	2015	504	650	2133	0.945	1978	1558	3.5	12.7	21.244	C
B4100 (W)	515	129	2125	718	0.718	509	503	1.0	2.5	17.783	C
A43 (N)	1597	399	510	2155	0.741	1592	2124	1.7	3.0	6.910	A

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1824	592	1.532	591	693	13.8	92.8	340.387	F
A43 (S)	2467	617	592	2169	1.138	2158	1823	12.7	89.9	93.377	F
B4100 (W)	631	158	2249	657	0.960	601	502	2.5	9.9	52.046	F
A43 (N)	1957	489	591	2106	0.929	1925	2258	3.0	10.9	19.113	C

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	907	227	1850	580	1.565	580	705	92.8	174.7	759.162	F
A43 (S)	2467	617	585	2173	1.136	2172	1844	89.9	163.8	216.359	F
B4100 (W)	631	158	2256	653	0.966	618	501	9.9	13.1	78.551	F
A43 (N)	1957	489	605	2097	0.933	1950	2269	10.9	12.6	24.618	C

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	741	185	1560	717	1.033	716	623	174.7	180.8	829.618	F
A43 (S)	2015	504	670	2121	0.950	2107	1607	163.8	140.8	261.434	F
B4100 (W)	515	129	2253	655	0.787	550	524	13.1	4.5	42.926	E
A43 (N)	1597	399	549	2132	0.749	1634	2253	12.6	3.4	8.454	A

#### 18:00 - 18:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	620	155	1280	850	0.730	845	527	180.8	124.6	651.430	F
<b>A43 (S)</b>	1687	422	748	2072	0.814	2056	1377	140.8	48.5	167.954	F
<b>B4100 (W)</b>	431	108	2259	651	0.662	440	545	4.5	2.2	18.786	C
<b>A43 (N)</b>	1338	334	463	2184	0.613	1344	2237	3.4	1.7	4.716	A

# 2031 Baseline , 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	303.88	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-24	B4100(E)	303.88	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D33	2031 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	605	100.000
A43 (S)		ONE HOUR	✓	1891	100.000
B4100 (W)		ONE HOUR	✓	672	100.000
A43 (N)		ONE HOUR	✓	2276	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	97	218	290
	A43 (S)	255	0	172	1464
	B4100 (W)	320	207	16	129
	A43 (N)	370	1736	170	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.17	371.69	57.7	F	555	833
A43 (S)	0.97	41.37	22.9	E	1735	2603
B4100 (W)	1.05	124.59	27.2	F	617	925
A43 (N)	1.28	556.89	318.2	F	2088	3133

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1585	705	0.646	448	705	0.0	1.9	14.599	B
A43 (S)	1424	356	515	2217	0.642	1416	1519	0.0	2.0	5.116	A
B4100 (W)	506	126	1502	1025	0.494	502	429	0.0	1.0	7.245	A
A43 (N)	1713	428	596	2103	0.815	1694	1407	0.0	4.8	9.759	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1841	584	0.931	520	832	1.9	7.8	48.429	E
A43 (S)	1700	425	597	2165	0.785	1692	1763	2.0	4.0	8.598	A
B4100 (W)	604	151	1787	884	0.683	599	502	1.0	2.2	13.197	B
A43 (N)	2046	512	713	2032	1.007	1961	1674	4.8	26.2	37.955	E

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1869	571	1.167	563	918	7.8	33.6	151.321	F
A43 (S)	2082	521	635	2142	0.972	2026	1796	4.0	18.0	27.627	D
B4100 (W)	740	185	2112	724	1.022	685	550	2.2	15.8	63.443	F
A43 (N)	2506	626	827	1962	1.277	1960	1970	26.2	162.6	180.195	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1867	572	1.166	570	927	33.6	57.7	304.122	F
A43 (S)	2082	521	641	2138	0.974	2062	1796	18.0	22.9	41.374	E
B4100 (W)	740	185	2148	706	1.047	694	555	15.8	27.2	124.592	F
A43 (N)	2506	626	839	1955	1.282	1955	2003	162.6	300.4	429.261	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1886	563	0.967	563	894	57.7	53.1	371.688	F
A43 (S)	1700	425	637	2141	0.794	1773	1812	22.9	4.7	13.267	B
B4100 (W)	604	151	1881	838	0.721	701	528	27.2	3.0	43.231	E
A43 (N)	2046	512	805	1976	1.036	1975	1777	300.4	318.2	556.893	F

#### 09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
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<b>B4100(E)</b>	455	114	1919	547	0.833	536	777	53.1	32.9	291.689	F
<b>A43 (S)</b>	1424	356	618	2152	0.661	1433	1837	4.7	2.3	5.828	A
<b>B4100 (W)</b>	506	126	1560	996	0.508	513	492	3.0	1.1	8.027	A
<b>A43 (N)</b>	1713	428	608	2095	0.818	2088	1465	318.2	224.6	468.587	F

# 2031 Baseline, 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	343.75	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-28	B4100(E)	343.75	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D34	2031 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	876	100.000
A43 (S)		ONE HOUR	✓	2302	100.000
B4100 (W)		ONE HOUR	✓	505	100.000
A43 (N)		ONE HOUR	✓	1886	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	306	381
	A43 (S)	146	0	162	1994
	B4100 (W)	214	137	21	133
	A43 (N)	301	1473	112	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.74	1204.65	252.9	F	804	1206
A43 (S)	1.17	332.64	200.1	F	2112	3169
B4100 (W)	0.86	37.25	5.4	E	463	695
A43 (N)	0.97	39.51	21.8	E	1731	2596

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1305	838	0.787	646	494	0.0	3.5	18.136	C
A43 (S)	1733	433	606	2160	0.802	1717	1345	0.0	4.1	8.373	A
B4100 (W)	380	95	1877	840	0.453	377	446	0.0	0.8	7.979	A
A43 (N)	1420	355	386	2230	0.637	1412	1867	0.0	1.9	4.736	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1560	717	1.098	698	588	3.5	25.8	94.298	F
A43 (S)	2069	517	666	2123	0.975	2015	1591	4.1	17.7	27.337	D
B4100 (W)	454	113	2177	692	0.656	450	505	0.8	1.9	15.112	C
A43 (N)	1695	424	459	2186	0.776	1689	2168	1.9	3.6	7.745	A

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1870	570	1.691	570	691	25.8	124.5	492.520	F
A43 (S)	2535	634	590	2170	1.168	2164	1850	17.7	110.3	113.613	F
B4100 (W)	556	139	2260	651	0.854	544	494	1.9	4.9	31.614	D
A43 (N)	2077	519	538	2138	0.971	2023	2266	3.6	17.1	26.259	D

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1903	555	1.738	555	701	124.5	226.9	1010.788	F
A43 (S)	2535	634	580	2176	1.165	2175	1877	110.3	200.1	262.661	F
B4100 (W)	556	139	2263	650	0.856	554	492	4.9	5.4	37.248	E
A43 (N)	2077	519	546	2133	0.973	2058	2271	17.1	21.8	39.514	E

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1630	684	1.151	684	613	226.9	252.9	1204.647	F
A43 (S)	2069	517	661	2126	0.973	2115	1654	200.1	188.8	332.641	F
B4100 (W)	454	113	2263	649	0.699	465	512	5.4	2.6	21.297	C
A43 (N)	1695	424	477	2175	0.779	1767	2252	21.8	4.0	11.146	B

#### 18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
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<b>B4100(E)</b>	659	165	1320	831	0.794	828	521	252.9	210.8	1009.125	F
<b>A43 (S)</b>	1733	433	750	2071	0.837	2059	1398	188.8	107.2	259.803	F
<b>B4100 (W)</b>	380	95	2274	644	0.590	384	535	2.6	1.5	14.537	B
<b>A43 (N)</b>	1420	355	414	2214	0.641	1428	2245	4.0	2.0	5.023	A

# 2031 Baseline + Committed, 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	472.36	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-28	B4100(E)	472.36	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D35	2031 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	605	100.000
A43 (S)		ONE HOUR	✓	2046	100.000
B4100 (W)		ONE HOUR	✓	672	100.000
A43 (N)		ONE HOUR	✓	2489	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	97	218	290
	A43 (S)	255	0	172	1619
	B4100 (W)	320	207	16	129
	A43 (N)	370	1949	170	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.20	456.19	68.6	F	555	833
A43 (S)	1.05	99.49	68.4	F	1877	2816
B4100 (W)	1.11	191.20	42.4	F	617	925
A43 (N)	1.39	858.71	511.1	F	2284	3426

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1734	635	0.718	445	703	0.0	2.5	19.453	C
A43 (S)	1540	385	512	2218	0.694	1530	1668	0.0	2.6	5.935	A
B4100 (W)	506	126	1615	969	0.522	501	427	0.0	1.1	8.088	A
A43 (N)	1874	468	596	2103	0.891	1841	1521	0.0	8.1	14.470	B

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1912	550	0.988	509	811	2.5	11.1	65.922	F
A43 (S)	1839	460	579	2176	0.845	1826	1842	2.6	5.8	11.424	B
B4100 (W)	604	151	1917	820	0.737	598	489	1.1	2.8	16.676	C
A43 (N)	2238	559	710	2033	1.100	2013	1804	8.1	64.3	74.285	F

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1905	554	1.203	549	871	11.1	40.4	187.355	F
A43 (S)	2253	563	612	2156	1.045	2113	1842	5.8	40.9	49.285	E
B4100 (W)	740	185	2198	682	1.085	659	526	2.8	23.0	87.634	F
A43 (N)	2740	685	796	1981	1.383	1981	2061	64.3	254.2	294.742	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	666	167	1903	555	1.201	553	876	40.4	68.6	368.716	F
A43 (S)	2253	563	616	2154	1.046	2143	1841	40.9	68.4	99.492	F
B4100 (W)	740	185	2228	667	1.109	663	530	23.0	42.4	191.201	F
A43 (N)	2740	685	802	1977	1.386	1977	2088	254.2	445.0	640.662	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1906	553	0.983	544	877	68.6	68.6	456.190	F
A43 (S)	1839	460	608	2159	0.852	2080	1842	68.4	8.3	63.035	F
B4100 (W)	604	151	2166	698	0.866	681	522	42.4	23.2	174.988	F
A43 (N)	2238	559	809	1973	1.134	1973	2037	445.0	511.1	858.317	F

#### 09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	544	136	1906	553	0.983	544	877	68.6	68.6	456.190	F
A43 (S)	1839	460	608	2159	0.852	2080	1842	68.4	8.3	63.035	F
B4100 (W)	604	151	2166	698	0.866	681	522	42.4	23.2	174.988	F
A43 (N)	2238	559	809	1973	1.134	1973	2037	445.0	511.1	858.317	F



<b>B4100(E)</b>	455	114	1943	536	0.850	528	782	68.6	50.6	408.461	F
<b>A43 (S)</b>	1540	385	597	2165	0.711	1562	1873	8.3	2.9	7.101	A
<b>B4100 (W)</b>	506	126	1684	935	0.541	594	476	23.2	1.3	14.401	B
<b>A43 (N)</b>	1874	468	674	2055	0.912	2051	1603	511.1	467.0	858.712	F

# 2031 Baseline + Committed, 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	500.46	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-30	B4100(E)	500.46	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D36	2031 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	876	100.000
A43 (S)		ONE HOUR	✓	2506	100.000
B4100 (W)		ONE HOUR	✓	505	100.000
A43 (N)		ONE HOUR	✓	2004	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	306	381
	A43 (S)	146	0	162	2198
	B4100 (W)	214	137	21	133
	A43 (N)	301	1591	112	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.86	1526.04	306.8	F	804	1206
A43 (S)	1.26	569.02	347.5	F	2300	3449
B4100 (W)	0.87	40.17	5.8	E	463	695
A43 (N)	1.03	82.42	54.5	F	1839	2758

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	659	165	1392	797	0.828	642	493	0.0	4.3	22.041	C
A43 (S)	1887	472	603	2162	0.873	1860	1431	0.0	6.6	11.873	B
B4100 (W)	380	95	2019	770	0.494	376	444	0.0	1.0	9.370	A
A43 (N)	1509	377	386	2231	0.676	1500	2010	0.0	2.2	5.287	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1663	668	1.178	658	582	4.3	36.7	133.303	F
A43 (S)	2253	563	635	2142	1.052	2106	1686	6.6	43.2	51.652	F
B4100 (W)	454	113	2256	653	0.695	449	485	1.0	2.2	17.841	C
A43 (N)	1802	450	454	2190	0.823	1791	2252	2.2	4.8	9.582	A

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1947	534	1.807	534	672	36.7	144.4	630.270	F
A43 (S)	2759	690	558	2190	1.260	2188	1923	43.2	185.9	193.749	F
B4100 (W)	556	139	2279	642	0.866	544	467	2.2	5.3	34.263	D
A43 (N)	2206	552	528	2144	1.029	2091	2295	4.8	33.7	42.297	E

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	964	241	1977	519	1.857	519	681	144.4	255.7	1396.173	F
A43 (S)	2759	690	549	2195	1.257	2195	1948	185.9	326.9	425.441	F
B4100 (W)	556	139	2279	642	0.866	554	465	5.3	5.8	40.167	E
A43 (N)	2206	552	536	2139	1.031	2123	2297	33.7	54.5	82.416	F

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1843	583	1.350	583	624	255.7	306.8	1526.041	F
A43 (S)	2253	563	588	2171	1.038	2170	1838	326.9	347.5	569.025	F
B4100 (W)	454	113	2284	639	0.710	466	475	5.8	2.7	22.810	C
A43 (N)	1802	450	470	2180	0.827	1997	2280	54.5	5.8	36.153	E

#### 18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
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<b>B4100(E)</b>	659	165	1414	786	0.839	784	513	306.8	275.7	1337.924	F
<b>A43 (S)</b>	1887	472	716	2092	0.902	2085	1482	347.5	297.8	557.191	F
<b>B4100 (W)</b>	380	95	2292	636	0.598	385	510	2.7	1.6	15.084	C
<b>A43 (N)</b>	1509	377	405	2219	0.680	1522	2271	5.8	2.4	5.718	A

# 2031 Baseline + Committed + Western Development , 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	556.57	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-29	A43 (N)	556.57	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D37	2031 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	572	100.000
A43 (S)		ONE HOUR	✓	2088	100.000
B4100 (W)		ONE HOUR	✓	752	100.000
A43 (N)		ONE HOUR	✓	2509	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	7	275	290
	A43 (S)	255	0	214	1619
	B4100 (W)	352	239	16	145
	A43 (N)	370	1949	190	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	3	7
	A43 (S)	8	0	15	17
	B4100 (W)	6	13	8	12

	A43 (N)	7	18	13	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.15	321.35	50.8	F	525	787
A43 (S)	1.10	157.34	113.2	F	1916	2874
B4100 (W)	1.18	333.49	69.1	F	690	1035
A43 (N)	1.40	1009.29	546.5	F	2302	3453

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	431	108	1768	619	0.696	422	726	0.0	2.2	18.450	C
A43 (S)	1572	393	569	2183	0.720	1560	1621	0.0	2.9	6.566	A
B4100 (W)	566	142	1614	969	0.584	560	515	0.0	1.5	9.484	A
A43 (N)	1889	472	643	2074	0.911	1851	1532	0.0	9.6	16.520	C

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	514	129	1919	547	0.940	491	831	2.2	8.1	53.199	F
A43 (S)	1877	469	650	2133	0.880	1859	1760	2.9	7.5	14.292	B
B4100 (W)	676	169	1917	820	0.824	664	591	1.5	4.5	23.637	C
A43 (N)	2256	564	763	2001	1.127	1987	1818	9.6	76.8	87.421	F

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	630	157	1914	549	1.147	541	871	8.1	30.3	146.761	F
A43 (S)	2299	575	698	2103	1.093	2080	1757	7.5	62.3	69.595	F
B4100 (W)	828	207	2141	710	1.166	698	637	4.5	37.0	123.468	F
A43 (N)	2762	691	817	1968	1.403	1968	2021	76.8	275.4	327.181	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	630	157	1913	550	1.146	548	873	30.3	50.8	281.806	F
A43 (S)	2299	575	705	2099	1.095	2095	1756	62.3	113.2	157.341	F
B4100 (W)	828	207	2158	701	1.181	700	642	37.0	69.1	284.943	F
A43 (N)	2762	691	821	1966	1.405	1966	2037	275.4	474.5	689.814	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	514	129	1914	549	0.936	538	871	50.8	44.9	321.345	F
A43 (S)	1877	469	695	2105	0.892	2083	1757	113.2	61.6	152.745	F
B4100 (W)	676	169	2143	709	0.953	698	636	69.1	63.6	333.489	F
A43 (N)	2256	564	818	1968	1.146	1968	2023	474.5	546.5	945.355	F

#### 09:00 - 09:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	431	108	1920	547	0.788	534	883	44.9	19.0	221.020	F
<b>A43 (S)</b>	1572	393	691	2107	0.746	1804	1763	61.6	3.6	26.491	D
<b>B4100 (W)</b>	566	142	1890	834	0.679	808	605	63.6	3.1	149.203	F
<b>A43 (N)</b>	1889	472	872	1935	0.976	1931	1825	546.5	536.0	1009.292	F

# 2031 Baseline + Committed + Western Development , 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	567.30	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-32	B4100(E)	567.30	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D38	2031 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	897	100.000
A43 (S)		ONE HOUR	✓	2527	100.000
B4100 (W)		ONE HOUR	✓	637	100.000
A43 (N)		ONE HOUR	✓	2015	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	189	327	381
	A43 (S)	146	0	183	2198
	B4100 (W)	282	180	21	154
	A43 (N)	301	1591	123	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	13	7
	B4100 (W)	2	10	0	8

	A43 (N)	4	10	9	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.90	1780.35	347.3	F	823	1235
A43 (S)	1.27	597.25	366.9	F	2319	3478
B4100 (W)	1.07	171.16	34.7	F	585	877
A43 (N)	1.06	114.95	79.3	F	1849	2773

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	675	169	1431	778	0.868	654	543	0.0	5.4	26.382	D
A43 (S)	1902	476	624	2149	0.885	1873	1461	0.0	7.3	12.881	B
B4100 (W)	480	120	2015	772	0.621	473	482	0.0	1.7	12.451	B
A43 (N)	1517	379	467	2182	0.695	1507	2021	0.0	2.4	5.740	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	806	202	1706	648	1.244	641	638	5.4	46.7	168.817	F
A43 (S)	2272	568	634	2142	1.060	2111	1713	7.3	47.4	55.678	F
B4100 (W)	573	143	2231	666	0.860	559	515	1.7	5.2	32.051	D
A43 (N)	1811	453	546	2134	0.849	1799	2244	2.4	5.7	11.292	B

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	988	247	1953	531	1.861	531	715	46.7	160.9	722.198	F
A43 (S)	2782	696	566	2185	1.273	2184	1918	47.4	197.0	206.593	F
B4100 (W)	701	175	2251	656	1.070	636	498	5.2	21.6	93.514	F
A43 (N)	2219	555	608	2096	1.059	2060	2279	5.7	45.2	53.730	F

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	988	247	1976	520	1.899	520	725	160.9	277.8	1527.315	F
A43 (S)	2782	696	559	2189	1.271	2189	1937	197.0	345.3	449.595	F
B4100 (W)	701	175	2251	655	1.070	649	497	21.6	34.7	171.158	F
A43 (N)	2219	555	618	2089	1.062	2082	2282	45.2	79.3	114.952	F

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	806	202	1959	528	1.527	528	717	277.8	347.3	1780.352	F
A43 (S)	2272	568	564	2186	1.039	2186	1923	345.3	366.9	597.252	F
B4100 (W)	573	143	2252	655	0.874	636	498	34.7	18.9	156.530	F
A43 (N)	1811	453	609	2095	0.865	2067	2279	79.3	15.5	86.896	F

#### 18:00 - 18:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	675	169	1505	743	0.908	741	595	347.3	330.9	1647.032	F
<b>A43 (S)</b>	1902	476	699	2103	0.905	2096	1547	366.9	318.4	588.560	F
<b>B4100 (W)</b>	480	120	2259	651	0.736	542	536	18.9	3.3	47.140	E
<b>A43 (N)</b>	1517	379	532	2142	0.708	1568	2269	15.5	2.7	7.434	A

# 2031 Baseline + Committed + Eastern Development , 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	515.56	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-30	B4100(E)	515.56	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D39	2031 Baseline + Committed + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	635	100.000
A43 (S)		ONE HOUR	✓	2069	100.000
B4100 (W)		ONE HOUR	✓	676	100.000
A43 (N)		ONE HOUR	✓	2500	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	115	221	299
	A43 (S)	278	0	172	1619
	B4100 (W)	324	207	16	129
	A43 (N)	381	1949	170	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	20	17
	B4100 (W)	7	16	8	14

	A43 (N)	9	18	15	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.24	553.43	85.4	F	583	874
A43 (S)	1.06	111.14	78.0	F	1899	2848
B4100 (W)	1.12	216.24	46.4	F	620	930
A43 (N)	1.40	921.56	533.0	F	2294	3441

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	478	120	1732	636	0.752	466	731	0.0	3.0	21.779	C
A43 (S)	1558	389	519	2214	0.704	1547	1679	0.0	2.7	6.188	A
B4100 (W)	509	127	1638	958	0.531	504	428	0.0	1.2	8.712	A
A43 (N)	1882	471	616	2091	0.900	1847	1526	0.0	8.8	15.439	C

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	571	143	1895	559	1.022	527	841	3.0	14.1	77.031	F
A43 (S)	1860	465	582	2175	0.855	1846	1840	2.7	6.3	12.207	B
B4100 (W)	608	152	1940	809	0.751	600	487	1.2	3.1	18.521	C
A43 (N)	2247	562	734	2019	1.113	2002	1807	8.8	70.3	80.505	F

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	699	175	1885	563	1.242	560	899	14.1	48.9	219.730	F
A43 (S)	2278	570	608	2159	1.055	2121	1837	6.3	45.6	53.587	F
B4100 (W)	744	186	2208	677	1.100	656	521	3.1	25.2	95.379	F
A43 (N)	2753	688	816	1969	1.398	1969	2048	70.3	266.2	312.821	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	699	175	1883	564	1.240	563	904	48.9	82.9	434.202	F
A43 (S)	2278	570	611	2157	1.056	2148	1836	45.6	78.0	111.140	F
B4100 (W)	744	186	2235	663	1.122	660	524	25.2	46.4	209.962	F
A43 (N)	2753	688	822	1965	1.401	1965	2072	266.2	463.1	671.150	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	571	143	1885	563	1.014	561	901	82.9	85.4	553.434	F
A43 (S)	1860	465	609	2158	0.862	2127	1837	78.0	11.3	80.696	F
B4100 (W)	608	152	2214	674	0.902	658	521	46.4	33.8	216.240	F
A43 (N)	2247	562	818	1968	1.142	1968	2054	463.1	533.0	902.071	F

#### 09:00 - 09:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	478	120	1920	547	0.875	540	827	85.4	70.0	519.195	F
A43 (S)	1558	389	594	2167	0.719	1591	1865	11.3	3.1	7.663	A
B4100 (W)	509	127	1712	921	0.553	639	472	33.8	1.4	22.382	C
A43 (N)	1882	471	730	2021	0.931	2017	1621	533.0	499.4	921.564	F

# 2031 Baseline + Committed + Eastern Development , 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	538.84	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-32	B4100(E)	538.84	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D40	2031 Baseline + Committed + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	916	100.000
A43 (S)		ONE HOUR	✓	2518	100.000
B4100 (W)		ONE HOUR	✓	507	100.000
A43 (N)		ONE HOUR	✓	2010	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	212	311	393
	A43 (S)	158	0	162	2198
	B4100 (W)	216	137	21	133
	A43 (N)	307	1591	112	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	6	7
	B4100 (W)	3	4	0	4

	A43 (N)	5	10	3	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.93	1693.93	346.9	F	841	1261
A43 (S)	1.26	577.82	354.3	F	2311	3466
B4100 (W)	0.87	41.52	6.0	E	465	698
A43 (N)	1.04	89.06	59.8	F	1844	2767

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	690	172	1392	797	0.865	668	508	0.0	5.4	25.876	D
A43 (S)	1896	474	613	2156	0.879	1868	1447	0.0	6.9	12.394	B
B4100 (W)	382	95	2034	762	0.501	378	446	0.0	1.0	9.578	A
A43 (N)	1513	378	396	2225	0.680	1504	2016	0.0	2.3	5.370	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	823	206	1662	669	1.231	662	599	5.4	45.9	162.383	F
A43 (S)	2264	566	627	2147	1.054	2113	1697	6.9	44.6	53.049	F
B4100 (W)	456	114	2261	651	0.700	451	479	1.0	2.3	18.165	C
A43 (N)	1807	452	465	2183	0.828	1796	2246	2.3	4.9	9.875	A

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1009	252	1939	537	1.877	537	689	45.9	163.7	721.215	F
A43 (S)	2772	693	552	2194	1.264	2192	1925	44.6	189.7	197.664	F
B4100 (W)	558	140	2282	640	0.872	546	462	2.3	5.4	35.153	E
A43 (N)	2213	553	540	2137	1.036	2088	2287	4.9	36.1	44.638	E

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1009	252	1968	524	1.926	524	698	163.7	284.9	1551.013	F
A43 (S)	2772	693	544	2199	1.261	2198	1948	189.7	333.1	432.717	F
B4100 (W)	558	140	2282	640	0.872	556	460	5.4	6.0	41.521	E
A43 (N)	2213	553	548	2132	1.038	2118	2290	36.1	59.8	89.056	F

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	823	206	1859	576	1.431	576	645	284.9	346.9	1693.934	F
A43 (S)	2264	566	574	2180	1.039	2179	1860	333.1	354.3	577.818	F
B4100 (W)	456	114	2286	638	0.714	469	468	6.0	2.8	23.352	C
A43 (N)	1807	452	483	2172	0.832	2022	2272	59.8	6.1	43.787	E

#### 18:00 - 18:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	690	172	1415	786	0.877	784	529	346.9	323.4	1539.890	F
A43 (S)	1896	474	703	2100	0.903	2093	1495	354.3	304.9	567.056	F
B4100 (W)	382	95	2295	634	0.602	386	502	2.8	1.6	15.286	C
A43 (N)	1513	378	416	2212	0.684	1528	2265	6.1	2.4	5.846	A

# 2031 Baseline + Committed + Both Developments, 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	643.60	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-33	B4100(E)	643.60	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D41	2031 Baseline + Committed + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	692	100.000
A43 (S)		ONE HOUR	✓	2111	100.000
B4100 (W)		ONE HOUR	✓	757	100.000
A43 (N)		ONE HOUR	✓	2520	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	115	278	299
	A43 (S)	278	0	214	1619
	B4100 (W)	357	239	16	145
	A43 (N)	381	1949	190	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	3	8
	A43 (S)	11	0	15	17
	B4100 (W)	6	13	8	12

	A43 (N)	9	18	13	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.36	901.49	141.7	F	635	952
A43 (S)	1.08	143.58	104.2	F	1937	2906
B4100 (W)	1.20	357.41	73.5	F	695	1042
A43 (N)	1.42	1077.62	572.5	F	2312	3469

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	521	130	1765	620	0.840	503	754	0.0	4.6	29.592	D
A43 (S)	1589	397	571	2182	0.728	1577	1696	0.0	3.0	6.778	A
B4100 (W)	570	142	1634	959	0.594	564	514	0.0	1.6	9.796	A
A43 (N)	1897	474	663	2062	0.920	1855	1535	0.0	10.4	17.686	C

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	622	156	1901	556	1.119	541	861	4.6	24.8	117.269	F
A43 (S)	1898	474	614	2155	0.881	1880	1828	3.0	7.6	14.299	B
B4100 (W)	681	170	1923	817	0.833	668	571	1.6	4.7	24.566	C
A43 (N)	2265	566	788	1986	1.141	1974	1803	10.4	83.3	94.511	F

#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	762	190	1892	560	1.361	559	903	24.8	75.6	337.950	F
A43 (S)	2324	581	628	2146	1.083	2121	1823	7.6	58.5	65.324	F
B4100 (W)	833	208	2147	707	1.179	696	601	4.7	39.1	129.632	F
A43 (N)	2775	694	842	1953	1.420	1953	2001	83.3	288.7	347.738	F

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	762	190	1891	560	1.360	560	905	75.6	126.0	659.441	F
A43 (S)	2324	581	629	2146	1.083	2141	1822	58.5	104.2	143.585	F
B4100 (W)	833	208	2166	697	1.195	696	604	39.1	73.5	302.720	F
A43 (N)	2775	694	845	1952	1.422	1952	2018	288.7	494.5	725.501	F

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	622	156	1892	560	1.111	559	903	126.0	141.7	874.708	F
A43 (S)	1898	474	628	2146	0.884	2122	1823	104.2	48.0	131.323	F
B4100 (W)	681	170	2149	706	0.964	696	602	73.5	69.7	357.409	F
A43 (N)	2265	566	842	1953	1.160	1953	2003	494.5	572.5	988.188	F

#### 09:00 - 09:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	521	130	1902	555	0.938	551	916	141.7	134.2	901.491	F
<b>A43 (S)</b>	1589	397	621	2151	0.739	1768	1832	48.0	3.4	16.816	C
<b>B4100 (W)</b>	570	142	1827	865	0.659	837	562	69.7	2.8	154.533	F
<b>A43 (N)</b>	1897	474	910	1912	0.992	1908	1754	572.5	569.8	1077.617	F

# 2031 Baseline + Committed + Both Developments, 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	609.93	F

### Junction Network

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-34	B4100(E)	609.93	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D42	2031 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	938	100.000
A43 (S)		ONE HOUR	✓	2539	100.000
B4100 (W)		ONE HOUR	✓	638	100.000
A43 (N)		ONE HOUR	✓	2021	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	212	333	393
	A43 (S)	158	0	183	2198
	B4100 (W)	283	180	21	154
	A43 (N)	307	1591	123	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	9	1	4
	A43 (S)	8	0	13	7
	B4100 (W)	3	10	0	8

	A43 (N)	5	10	9	0
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## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	1.97	1961.86	386.1	F	861	1291
A43 (S)	1.28	607.85	375.1	F	2330	3495
B4100 (W)	1.07	175.90	35.8	F	585	878
A43 (N)	1.07	122.09	84.8	F	1855	2782

### Main Results for each time segment

#### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	706	177	1431	778	0.907	678	557	0.0	7.0	31.585	D
A43 (S)	1911	478	632	2144	0.892	1881	1477	0.0	7.7	13.454	B
B4100 (W)	480	120	2029	765	0.628	473	484	0.0	1.7	12.809	B
A43 (N)	1522	380	476	2176	0.699	1512	2027	0.0	2.5	5.833	A

#### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	843	211	1706	648	1.301	644	654	7.0	56.9	203.257	F
A43 (S)	2283	571	627	2147	1.063	2118	1723	7.7	48.9	57.138	F
B4100 (W)	574	143	2235	664	0.864	559	509	1.7	5.3	32.840	D
A43 (N)	1817	454	556	2127	0.854	1803	2238	2.5	5.9	11.661	B

#### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1033	258	1945	535	1.931	535	730	56.9	181.4	820.481	F
A43 (S)	2795	699	560	2188	1.277	2187	1920	48.9	200.9	210.658	F
B4100 (W)	702	176	2254	654	1.074	635	494	5.3	22.2	95.650	F
A43 (N)	2225	556	618	2090	1.065	2057	2271	5.9	47.9	56.259	F

#### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	1033	258	1966	525	1.968	525	739	181.4	308.4	1688.908	F
A43 (S)	2795	699	554	2192	1.275	2192	1937	200.9	351.7	457.405	F
B4100 (W)	702	176	2254	654	1.074	648	492	22.2	35.8	175.904	F
A43 (N)	2225	556	628	2083	1.068	2077	2274	47.9	84.8	122.094	F

#### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	843	211	1950	532	1.584	532	731	308.4	386.1	1961.864	F
A43 (S)	2283	571	559	2189	1.043	2189	1924	351.7	375.1	607.846	F
B4100 (W)	574	143	2254	654	0.877	635	493	35.8	20.4	163.599	F
A43 (N)	1817	454	618	2089	0.870	2063	2271	84.8	23.3	97.909	F

#### 18:00 - 18:15

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Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
<b>B4100(E)</b>	706	177	1533	730	0.967	728	618	386.1	380.6	1894.919	F
<b>A43 (S)</b>	1911	478	679	2115	0.904	2108	1582	375.1	325.9	598.661	F
<b>B4100 (W)</b>	480	120	2262	650	0.739	548	526	20.4	3.4	51.881	F
<b>A43 (N)</b>	1522	380	547	2133	0.713	1604	2263	23.3	2.8	8.603	A

# Junctions 10

## ARCADY 10 - Roundabout Module

Version: 10.0.2.1574

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Filename: A43 roundabout mitigation layout RevB.j10

Path: P:\17000's\17213\Junction Assessments

Report generation date: 20/09/2021 17:18:30

- »2019 Baseline, AM
- »2019 Baseline, PM
- »2019 Baseline + Committed, AM
- »2019 Baseline + Committed, PM
- »2019 Baseline + Western Development, AM
- »2019 Baseline + Western Development, PM
- »2019 Baseline + Eastern Development, AM
- »2019 Baseline + Eastern Development, PM
- »2019 Baseline + Both Developments, AM
- »2019 Baseline + Both Developments, PM
- »2019 Baseline + Committed + Western Development, AM
- »2019 Baseline + Committed + Western Development, PM
- »2019 Baseline + Committed + Eastern Development, AM
- »2019 Baseline + Committed + Eastern Development, PM
- »2019 Baseline + Committed + Both Developments, AM
- »2019 Baseline + Committed + Both Developments, PM
- »2025 Baseline, AM
- »2025 Baseline, PM
- »2025 Baseline + Committed, AM
- »2025 Baseline + Committed, PM
- »2025 Baseline + Western Development , AM
- »2025 Baseline + Western Development, PM
- »2025 Baseline + Eastern Development, AM
- »2025 Baseline + Eastern Development, PM
- »2025 Baseline + Both Developments, AM
- »2025 Baseline + Both Developments, PM
- »2025 Baseline + Committed + Western Development, AM
- »2025 Baseline + Committed + Western Development , PM
- »2025 Baseline + Committed + Eastern Development, AM
- »2025 Baseline + Committed + Eastern Development , PM
- »2025 Baseline + Committed + Both Developments, AM
- »2025 Baseline + Committed + Both Developments, PM
- »2031 Baseline , AM
- »2031 Baseline, PM
- »2031 Baseline + Committed, AM
- »2031 Baseline + Committed, PM
- »2031 Baseline + Committed + Western Development , AM
- »2031 Baseline + Committed + Western Development , PM
- »2031 Baseline + Committed + Eastern Development , AM

- »2031 Baseline + Committed + Eastern Development , PM
- »2031 Baseline + Committed + Both Developments, AM
- »2031 Baseline + Committed + Both Developments, PM

Summary of junction performance

	AM				PM			
	Q (PCU)	Delay (s)	RFC	Res Cap	Q (PCU)	Delay (s)	RFC	Res Cap
<b>2019 Baseline</b>								
B4100(E)	1.0	6.90	0.49	-3 % [A43 (N)]	1.5	7.22	0.60	0 % [A43 (S)]
A43 (S)	3.8	8.44	0.77		17.9	34.03	0.96	
B4100 (W)	1.2	7.57	0.54		1.0	8.59	0.50	
A43 (N)	27.2	49.94	0.99		3.2	7.18	0.75	
<b>2019 Baseline + Committed</b>								
B4100(E)	1.1	7.49	0.51	-11 % [A43 (N)]	1.8	8.39	0.63	-9 % [A43 (S)]
A43 (S)	6.2	12.59	0.85		85.7	122.29	1.07	
B4100 (W)	1.5	9.24	0.59		1.2	9.75	0.54	
A43 (N)	115.3	163.79	1.10		4.5	9.32	0.81	
<b>2019 Baseline + Western Development</b>								
B4100(E)	1.3	7.97	0.55	-5 % [A43 (N)]	1.8	8.11	0.63	3 % [A43 (S)]
A43 (S)	4.9	10.56	0.81		11.5	22.91	0.93	
B4100 (W)	1.8	9.48	0.62		1.9	12.45	0.66	
A43 (N)	44.5	75.27	1.02		3.8	8.41	0.78	
<b>2019 Baseline + Eastern Development</b>								
B4100(E)	0.8	6.15	0.41	-4 % [A43 (N)]	0.6	4.70	0.37	5 % [A43 (S)]
A43 (S)	3.7	7.89	0.76		10.1	18.90	0.91	
B4100 (W)	1.3	8.00	0.56		1.1	9.00	0.52	
A43 (N)	34.3	60.61	1.00		3.4	7.41	0.76	
<b>2019 Baseline + Both Developments</b>								
B4100(E)	1.5	8.51	0.58	-7 % [A43 (N)]	2.1	9.13	0.67	-3 % [A43 (S)]
A43 (S)	3.9	8.87	0.78		31.5	55.14	1.00	
B4100 (W)	1.9	10.04	0.64		2.2	13.57	0.68	
A43 (N)	55.0	89.78	1.03		4.0	8.92	0.79	
<b>2019 Baseline + Committed + Western Development</b>								
B4100(E)	0.7	4.10	0.39	5 % [A43 (S)]	2.0	9.16	0.66	-10 % [A43 (S)]
A43 (S)	9.2	18.41	0.90		106.1	148.96	1.09	
B4100 (W)	2.2	12.10	0.68		2.0	13.05	0.66	
A43 (N)	1.6	4.95	0.58		5.3	11.01	0.84	
<b>2019 Baseline + Committed + Eastern Development</b>								
B4100(E)	1.2	7.87	0.53	-12 % [A43 (N)]	2.1	9.42	0.67	-9 % [A43 (S)]
A43 (S)	7.0	14.02	0.86		96.8	136.70	1.08	
B4100 (W)	1.7	10.27	0.61		1.2	9.84	0.54	
A43 (N)	130.1	184.27	1.12		4.7	9.65	0.82	
<b>2019 Baseline + Committed + Both Developments</b>								
B4100(E)	1.5	8.98	0.59	-14 % [A43 (N)]	2.5	10.94	0.71	-11 % [A43 (S)]
A43 (S)	10.0	19.98	0.91		117.7	164.32	1.10	
B4100 (W)	2.4	13.00	0.69		2.4	15.06	0.70	
A43 (N)	162.3	244.67	1.15		5.9	12.17	0.85	
<b>2025 Baseline</b>								
B4100(E)	0.8	6.44	0.44	-11 % [A43 (N)]	2.4	10.34	0.70	-9 % [A43 (S)]
A43 (S)	5.4	10.99	0.83		91.7	132.10	1.08	
B4100 (W)	1.9	10.60	0.64		1.4	10.64	0.58	
A43 (N)	111.4	161.65	1.10		5.2	10.74	0.83	
<b>2025 Baseline + Committed</b>								
B4100(E)	1.3	8.14	0.55	-18 %	2.9	12.89	0.75	-16 %
A43 (S)	13.3	25.59	0.93		202.6	313.29	1.19	



B4100 (W)	2.5	14.01	0.71	[A43 (N)]	1.4	10.93	0.59	[A43 (S)]
A43 (N)	230.7	381.59	1.22		8.2	15.93	0.89	
<b>2025 Baseline + Western Development</b>								
B4100(E)	1.6	9.05	0.60	-13 %	2.4	10.29	0.70	-11 %
A43 (S)	9.6	19.44	0.90		112.2	159.51	1.10	
B4100 (W)	3.0	14.92	0.73	[A43 (N)]	1.6	11.01	0.61	[A43 (S)]
A43 (N)	141.9	205.49	1.13		5.5	11.26	0.84	
<b>2025 Baseline + Eastern Development</b>								
B4100(E)	1.4	8.27	0.57	-12 %	2.9	11.96	0.74	-10 %
A43 (S)	7.3	14.89	0.87		103.3	147.49	1.09	
B4100 (W)	2.0	11.40	0.66	[A43 (N)]	1.4	10.77	0.58	[A43 (S)]
A43 (N)	126.5	182.83	1.12		5.5	11.19	0.84	
<b>2025 Baseline + Both Developments</b>								
B4100(E)	1.8	9.49	0.62	-14 %	3.5	14.45	0.78	-11 %
A43 (S)	10.8	21.75	0.91		124.0	175.53	1.11	
B4100 (W)	3.1	15.62	0.75	[A43 (N)]	2.9	17.16	0.74	[A43 (S)]
A43 (N)	157.5	239.17	1.15		7.1	14.59	0.87	
<b>2025 Baseline + Committed + Western Development</b>								
B4100(E)	1.7	9.34	0.61	-20 %	3.6	15.77	0.79	-17 %
A43 (S)	23.7	43.58	0.98		225.8	362.43	1.21	
B4100 (W)	3.9	20.16	0.79	[A43 (N)]	3.0	17.57	0.75	[A43 (S)]
A43 (N)	265.3	460.52	1.25		11.8	23.08	0.93	
<b>2025 Baseline + Committed + Eastern Development</b>								
B4100(E)	1.5	8.63	0.58	-19 %	3.7	15.46	0.79	-17 %
A43 (S)	16.1	30.62	0.95		215.9	341.39	1.20	
B4100 (W)	2.8	15.96	0.73	[A43 (N)]	1.5	11.05	0.59	[A43 (S)]
A43 (N)	248.0	420.06	1.23		8.7	16.84	0.90	
<b>2025 Baseline + Committed + Both Developments</b>								
B4100(E)	1.9	9.96	0.64	-21 %	4.7	19.60	0.83	-18 %
A43 (S)	30.1	53.08	0.99		239.2	391.55	1.22	
B4100 (W)	4.3	22.19	0.81	[A43 (N)]	3.0	17.94	0.75	[A43 (S)]
A43 (N)	283.2	501.51	1.27		12.6	24.78	0.93	
<b>2031 Baseline</b>								
B4100(E)	1.7	9.15	0.61	-22 %	8.1	32.22	0.91	-21 %
A43 (S)	32.7	56.61	1.00		300.3	518.63	1.28	
B4100 (W)	5.1	26.04	0.84	[A43 (N)]	2.0	13.23	0.66	[A43 (S)]
A43 (N)	318.8	558.63	1.29		21.0	38.24	0.97	
<b>2031 Baseline + Committed</b>								
B4100(E)	1.8	9.59	0.62	-28 %	11.4	45.29	0.94	-26 %
A43 (S)	93.3	132.43	1.07		490.8	802.76	1.39	
B4100 (W)	6.2	32.17	0.87	[A43 (N)]	2.1	13.58	0.67	[A43 (S)]
A43 (N)	520.1	866.81	1.41		52.7	80.24	1.03	
<b>2031 Baseline + Committed + Western Development</b>								
B4100(E)	1.5	8.71	0.59	-29 %	14.5	55.32	0.96	-27 %
A43 (S)	137.1	190.96	1.12		530.1	868.46	1.41	
B4100 (W)	10.4	48.36	0.93	[A43 (N)]	4.7	25.43	0.83	[A43 (S)]
A43 (N)	574.1	985.20	1.45		86.7	124.95	1.07	
<b>2031 Baseline + Committed + Eastern Development</b>								
B4100(E)	2.0	10.31	0.65	-28 %	17.5	63.93	0.98	-27 %
A43 (S)	108.4	151.70	1.09		512.7	838.94	1.40	
B4100 (W)	6.9	35.68	0.88	[A43 (N)]	2.1	13.78	0.67	[A43 (S)]
A43 (N)	545.6	912.94	1.43		57.6	86.40	1.03	
<b>2031 Baseline + Committed + Both Developments</b>								
B4100(E)	2.6	12.39	0.71	-30 %	22.9	79.41	1.00	-28 %
A43 (S)	153.0	220.87	1.14		552.3	906.30	1.42	
B4100 (W)	11.4	52.55	0.94	[A43 (N)]	4.8	26.00	0.83	[A43 (S)]
A43 (N)	600.2	1044.17	1.46		92.3	132.28	1.08	

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

## File summary

### File Description

Title	(untitled)
Location	
Site number	
Date	22/05/2015
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

## Units

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

## Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75					✓	Delay	0.85	36.00	20.00		500

## Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2019 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D2	2019 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D3	2019 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓
D4	2019 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓
D5	2019 Baseline + Western Development	AM	ONE HOUR	07:45	09:15	15	✓
D6	2019 Baseline + Western Development	PM	ONE HOUR	16:45	18:15	15	✓
D7	2019 Baseline + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓
D8	2019 Baseline + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓
D9	2019 Baseline + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓
D10	2019 Baseline + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓
D11	2019 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓
D12	2019 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓
D13	2019 Baseline + Committed + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓
D14	2019 Baseline + Committed + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓
D15	2019 Baseline + Committed + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓
D16	2019 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓
D17	2025 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D18	2025 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D19	2025 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓
D20	2025 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓
D21	2025 Baseline + Western Development	AM	ONE HOUR	07:45	09:15	15	✓
D22	2025 Baseline + Western Development	PM	ONE HOUR	16:45	18:15	15	✓
D23	2025 Baseline + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓
D24	2025 Baseline + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓
D25	2025 Baseline + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓
D26	2025 Baseline + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓



D27	2025 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓
D28	2025 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓
D29	2025 Baseline + Committed + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓
D30	2025 Baseline + Committed + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓
D31	2025 Baseline + Committed + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓
D32	2025 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓
D33	2031 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D34	2031 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D35	2031 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓
D36	2031 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓
D37	2031 Baseline + Committed + Western Development	AM	ONE HOUR	07:45	09:15	15	✓
D38	2031 Baseline + Committed + Western Development	PM	ONE HOUR	16:45	18:15	15	✓
D39	2031 Baseline + Committed + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓
D40	2031 Baseline + Committed + Eastern Development	PM	ONE HOUR	16:45	18:15	15	✓
D41	2031 Baseline + Committed + Both Developments	AM	ONE HOUR	07:45	09:15	15	✓
D42	2031 Baseline + Committed + Both Developments	PM	ONE HOUR	16:45	18:15	15	✓

### Analysis Set Details

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



# 2019 Baseline, 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	25.52	D

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-3	A43 (N)	25.52	D

## Arms

### Arms

Arm	Name	Description	No give-way line
1	B4100(E)	B4100(E)	
2	A43 (S)	A43 (S)	
3	B4100 (W)	B4100 (W)	
4	A43 (N)	A43 (N)	

### Roundabout Geometry

Arm	V (m)	E (m)	I' (m)	R (m)	D (m)	PHI (deg)	Entry only	Exit only
B4100(E)	3.65	8.50	30.0	25.2	75.0	26.0		
A43 (S)	7.30	8.40	10.0	40.0	75.0	28.0		
B4100 (W)	3.65	8.50	30.0	25.0	75.0	37.0		
A43 (N)	7.30	8.00	16.5	40.0	75.0	29.0		

### Slope / Intercept / Capacity

#### Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
B4100(E)	0.556	2124
A43 (S)	0.620	2536
B4100 (W)	0.535	2044
A43 (N)	0.608	2466

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)	Run automatically
D1	2019 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)

B4100(E)	ONE HOUR	✓	485	100.000
A43 (S)	ONE HOUR	✓	1516	100.000
B4100 (W)	ONE HOUR	✓	538	100.000
A43 (N)	ONE HOUR	✓	1825	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	78	175	232
	A43 (S)	204	0	138	1174
	B4100 (W)	256	166	12	104
	A43 (N)	297	1392	136	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

## Results

### Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.49	6.90	1.0	A	445	668
A43 (S)	0.77	8.44	3.8	A	1391	2087
B4100 (W)	0.54	7.57	1.2	A	494	741
A43 (N)	0.99	49.94	27.2	E	1675	2512

### Main Results for each time segment

#### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	365	91	1277	1414	0.258	364	567	0.0	0.4	3.665	A
A43 (S)	1141	285	416	2278	0.501	1137	1225	0.0	1.1	3.611	A
B4100 (W)	405	101	1207	1398	0.290	403	345	0.0	0.4	3.830	A
A43 (N)	1374	343	478	2175	0.632	1366	1132	0.0	1.9	5.089	A

#### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	436	109	1527	1275	0.342	435	679	0.4	0.6	4.586	A
A43 (S)	1363	341	498	2227	0.612	1360	1465	1.1	1.8	4.759	A
B4100 (W)	484	121	1445	1271	0.380	483	413	0.4	0.6	4.836	A

A43 (N)	1641	410	573	2117	0.775	1633	1355	1.9	3.8	8.450	A
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#### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	534	133	1822	1111	0.481	532	821	0.6	1.0	6.639	A
A43 (S)	1669	417	605	2161	0.772	1661	1750	1.8	3.8	8.156	A
B4100 (W)	592	148	1765	1100	0.538	590	501	0.6	1.2	7.452	A
A43 (N)	2009	502	700	2040	0.985	1943	1655	3.8	20.4	31.304	D

#### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	534	133	1855	1093	0.489	534	829	1.0	1.0	6.897	A
A43 (S)	1669	417	609	2158	0.773	1669	1780	3.8	3.8	8.441	A
B4100 (W)	592	148	1772	1096	0.540	592	505	1.2	1.2	7.574	A
A43 (N)	2009	502	702	2038	0.986	1982	1662	20.4	27.2	49.942	E

#### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	436	109	1612	1228	0.355	438	698	1.0	0.6	4.886	A
A43 (S)	1363	341	507	2221	0.614	1371	1542	3.8	1.8	4.910	A
B4100 (W)	484	121	1455	1266	0.382	486	423	1.2	0.7	4.909	A
A43 (N)	1641	410	576	2115	0.776	1733	1365	27.2	4.2	13.392	B

#### 09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	365	91	1292	1406	0.260	366	572	0.6	0.4	3.712	A
A43 (S)	1141	285	419	2276	0.502	1144	1239	1.8	1.2	3.664	A
B4100 (W)	405	101	1215	1394	0.291	406	348	0.7	0.4	3.867	A
A43 (N)	1374	343	481	2173	0.632	1383	1140	4.2	2.0	5.315	A



# 2019 Baseline, 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	18.42	C

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	0	A43 (S)	18.42	C

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2019 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	695	100.000
A43 (S)		ONE HOUR	✓	1826	100.000
B4100 (W)		ONE HOUR	✓	399	100.000
A43 (N)		ONE HOUR	✓	1497	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	150	243	302
	A43 (S)	116	0	128	1582
	B4100 (W)	170	108	16	105
	A43 (N)	239	1169	89	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.60	7.22	1.5	A	638	957
A43 (S)	0.96	34.03	17.9	D	1676	2513
B4100 (W)	0.50	8.59	1.0	A	366	549
A43 (N)	0.75	7.18	3.2	A	1374	2061

## Main Results for each time segment

### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	523	131	1036	1548	0.338	521	394	0.0	0.5	3.600	A
A43 (S)	1375	344	487	2233	0.616	1368	1070	0.0	1.7	4.403	A
B4100 (W)	300	75	1499	1243	0.242	299	357	0.0	0.3	3.939	A
A43 (N)	1127	282	307	2279	0.495	1123	1490	0.0	1.1	3.369	A

### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	625	156	1240	1435	0.436	624	471	0.5	0.8	4.564	A
A43 (S)	1642	410	583	2174	0.755	1636	1281	1.7	3.2	7.053	A
B4100 (W)	359	90	1792	1086	0.330	358	427	0.3	0.5	5.110	A
A43 (N)	1346	336	368	2242	0.600	1344	1782	1.1	1.6	4.340	A

### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	765	191	1516	1281	0.597	762	573	0.8	1.5	7.100	A
A43 (S)	2010	503	713	2094	0.960	1964	1565	3.2	14.8	23.931	C
B4100 (W)	439	110	2158	890	0.494	437	519	0.5	1.0	8.191	A
A43 (N)	1648	412	447	2194	0.751	1642	2148	1.6	3.2	7.006	A

### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	765	191	1521	1278	0.599	765	577	1.5	1.5	7.216	A
A43 (S)	2010	503	716	2092	0.961	1998	1571	14.8	17.9	34.033	D
B4100 (W)	439	110	2190	872	0.504	439	523	1.0	1.0	8.586	A
A43 (N)	1648	412	450	2191	0.752	1648	2179	3.2	3.2	7.185	A

### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	625	156	1248	1430	0.437	628	478	1.5	0.8	4.632	A
A43 (S)	1642	410	587	2172	0.756	1700	1289	17.9	3.4	9.100	A
B4100 (W)	359	90	1853	1053	0.341	361	433	1.0	0.5	5.393	A
A43 (N)	1346	336	374	2238	0.601	1352	1840	3.2	1.7	4.441	A

### 18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	523	131	1043	1544	0.339	524	396	0.8	0.5	3.634	A
A43 (S)	1375	344	490	2232	0.616	1381	1077	3.4	1.7	4.551	A
B4100 (W)	300	75	1512	1235	0.243	301	359	0.5	0.3	3.989	A
A43 (N)	1127	282	310	2277	0.495	1129	1504	1.7	1.1	3.413	A



# 2019 Baseline + Committed, 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	76.80	F

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-11	A43 (N)	76.80	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2019 Baseline + Committed	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	485	100.000
A43 (S)		ONE HOUR	✓	1671	100.000
B4100 (W)		ONE HOUR	✓	538	100.000
A43 (N)		ONE HOUR	✓	2038	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	78	175	232
	A43 (S)	204	0	138	1329
	B4100 (W)	256	166	12	104
	A43 (N)	297	1605	136	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	4	7
	A43 (S)	8	0	9	17
	B4100 (W)	6	6	8	6
	A43 (N)	7	18	9	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.51	7.49	1.1	A	445	668
A43 (S)	0.85	12.59	6.2	B	1533	2300
B4100 (W)	0.59	9.24	1.5	A	494	741
A43 (N)	1.10	163.79	115.3	F	1870	2805

## Main Results for each time segment

### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	365	91	1435	1326	0.275	364	567	0.0	0.4	3.997	A
A43 (S)	1258	315	416	2278	0.552	1252	1383	0.0	1.4	4.020	A
B4100 (W)	405	101	1323	1337	0.303	403	345	0.0	0.5	4.084	A
A43 (N)	1534	384	478	2175	0.706	1523	1248	0.0	2.7	6.294	A

### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	436	109	1711	1173	0.372	435	677	0.4	0.6	5.219	A
A43 (S)	1502	376	497	2227	0.674	1498	1649	1.4	2.3	5.656	A
B4100 (W)	484	121	1583	1197	0.404	483	413	0.5	0.7	5.333	A
A43 (N)	1832	458	572	2117	0.865	1816	1493	2.7	6.7	13.162	B

### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	534	133	1919	1057	0.505	532	797	0.6	1.1	7.316	A
A43 (S)	1840	460	594	2167	0.849	1825	1857	2.3	6.0	11.657	B
B4100 (W)	592	148	1929	1012	0.585	589	491	0.7	1.5	8.958	A
A43 (N)	2244	561	698	2041	1.100	2018	1820	6.7	63.2	71.528	F

### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	534	133	1935	1049	0.509	534	803	1.1	1.1	7.486	A
A43 (S)	1840	460	597	2165	0.850	1839	1871	6.0	6.2	12.585	B
B4100 (W)	592	148	1942	1005	0.589	592	494	1.5	1.5	9.239	A
A43 (N)	2244	561	702	2038	1.101	2035	1832	63.2	115.3	163.786	F

### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	436	109	1949	1041	0.419	437	722	1.1	0.8	6.402	A
A43 (S)	1502	376	517	2215	0.678	1517	1869	6.2	2.5	6.063	A
B4100 (W)	484	121	1601	1188	0.407	487	434	1.5	0.7	5.470	A
A43 (N)	1832	458	578	2114	0.867	2093	1510	115.3	50.1	144.407	F

### 09:00 - 09:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	365	91	1607	1231	0.297	366	598	0.8	0.5	4.465	A
A43 (S)	1258	315	432	2268	0.555	1262	1541	2.5	1.4	4.136	A
B4100 (W)	405	101	1333	1331	0.304	406	361	0.7	0.5	4.133	A
A43 (N)	1534	384	482	2172	0.706	1723	1258	50.1	2.9	14.073	B



# 2019 Baseline + Committed, 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	57.61	F

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-9	A43 (S)	57.61	F

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2019 Baseline + Committed	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	695	100.000
A43 (S)		ONE HOUR	✓	2030	100.000
B4100 (W)		ONE HOUR	✓	399	100.000
A43 (N)		ONE HOUR	✓	1615	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	150	243	302
	A43 (S)	116	0	128	1786
	B4100 (W)	170	108	16	105
	A43 (N)	239	1287	89	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	6	1	3
	A43 (S)	3	0	6	7
	B4100 (W)	3	4	0	4
	A43 (N)	4	10	3	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.63	8.39	1.8	A	638	957
A43 (S)	1.07	122.29	85.7	F	1863	2794
B4100 (W)	0.54	9.75	1.2	A	366	549
A43 (N)	0.81	9.32	4.5	A	1482	2223

## Main Results for each time segment

### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	523	131	1125	1499	0.349	521	393	0.0	0.5	3.781	A
A43 (S)	1528	382	487	2234	0.684	1519	1158	0.0	2.3	5.312	A
B4100 (W)	300	75	1650	1162	0.259	299	357	0.0	0.4	4.308	A
A43 (N)	1216	304	307	2279	0.534	1211	1642	0.0	1.2	3.648	A

### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	625	156	1346	1376	0.454	624	470	0.5	0.8	4.916	A
A43 (S)	1825	456	583	2174	0.839	1813	1386	2.3	5.2	10.317	B
B4100 (W)	359	90	1970	990	0.362	358	427	0.4	0.6	5.876	A
A43 (N)	1452	363	367	2242	0.648	1449	1960	1.2	2.0	4.913	A

### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	765	191	1643	1211	0.632	762	566	0.8	1.7	8.184	A
A43 (S)	2235	559	712	2094	1.067	2062	1692	5.2	48.5	55.874	F
B4100 (W)	439	110	2263	834	0.527	437	511	0.6	1.1	9.338	A
A43 (N)	1778	445	440	2198	0.809	1768	2260	2.0	4.4	8.915	A

### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	765	191	1651	1206	0.634	765	569	1.7	1.8	8.392	A
A43 (S)	2235	559	716	2092	1.068	2086	1701	48.5	85.7	122.291	F
B4100 (W)	439	110	2287	821	0.535	439	515	1.1	1.2	9.750	A
A43 (N)	1778	445	443	2196	0.810	1778	2284	4.4	4.5	9.320	A

### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	625	156	1357	1370	0.456	628	492	1.8	0.9	5.021	A
A43 (S)	1825	456	588	2171	0.840	2136	1398	85.7	8.0	81.776	F
B4100 (W)	359	90	2274	828	0.433	360	449	1.2	0.8	7.988	A
A43 (N)	1452	363	387	2230	0.651	1462	2247	4.5	2.1	5.154	A

### 18:00 - 18:15

	Total	Junction						Start			

Arm	Demand (PCU/hr)	Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	523	131	1133	1494	0.350	524	398	0.9	0.6	3.823	A
A43 (S)	1528	382	491	2231	0.685	1551	1166	8.0	2.4	5.822	A
B4100 (W)	300	75	1681	1145	0.262	302	360	0.8	0.4	4.426	A
A43 (N)	1216	304	311	2276	0.534	1219	1672	2.1	1.3	3.713	A



# 2019 Baseline + Western Development, 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	36.27	E

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-5	A43 (N)	36.27	E

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2019 Baseline + Western Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	542	100.000
A43 (S)		ONE HOUR	✓	1558	100.000
B4100 (W)		ONE HOUR	✓	619	100.000
A43 (N)		ONE HOUR	✓	1846	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	78	232	232
	A43 (S)	204	0	180	1174
	B4100 (W)	289	198	12	120
	A43 (N)	297	1392	157	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	15	3	7
	A43 (S)	8	0	15	17
	B4100 (W)	6	13	8	12
	A43 (N)	7	18	13	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.55	7.97	1.3	A	497	746
A43 (S)	0.81	10.56	4.9	B	1430	2144
B4100 (W)	0.62	9.48	1.8	A	568	852
A43 (N)	1.02	75.27	44.5	F	1694	2541

## Main Results for each time segment

### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	408	102	1317	1392	0.293	406	592	0.0	0.4	3.874	A
A43 (S)	1173	293	474	2242	0.523	1168	1249	0.0	1.3	3.855	A
B4100 (W)	466	117	1207	1399	0.333	464	435	0.0	0.5	4.202	A
A43 (N)	1390	347	527	2145	0.648	1381	1144	0.0	2.1	5.396	A

### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	487	122	1573	1249	0.390	486	708	0.4	0.7	5.008	A
A43 (S)	1401	350	567	2184	0.641	1398	1492	1.3	2.0	5.267	A
B4100 (W)	556	139	1444	1272	0.438	555	521	0.5	0.8	5.486	A
A43 (N)	1660	415	631	2082	0.797	1651	1369	2.1	4.3	9.461	A

### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	597	149	1853	1094	0.545	594	851	0.7	1.3	7.622	A
A43 (S)	1715	429	686	2110	0.813	1705	1761	2.0	4.7	9.996	A
B4100 (W)	682	170	1762	1102	0.619	678	629	0.8	1.7	9.217	A
A43 (N)	2032	508	770	1997	1.018	1934	1670	4.3	29.0	40.821	E

### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	597	149	1885	1076	0.554	597	860	1.3	1.3	7.970	A
A43 (S)	1715	429	691	2107	0.814	1715	1790	4.7	4.9	10.558	B
B4100 (W)	682	170	1772	1096	0.622	681	634	1.7	1.8	9.479	A
A43 (N)	2032	508	774	1995	1.019	1971	1680	29.0	44.5	75.265	F

### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	487	122	1715	1170	0.416	489	739	1.3	0.8	5.635	A
A43 (S)	1401	350	584	2173	0.644	1412	1620	4.9	2.1	5.536	A
B4100 (W)	556	139	1458	1264	0.440	560	538	1.8	0.9	5.619	A
A43 (N)	1660	415	636	2078	0.798	1818	1382	44.5	4.9	24.784	C

### 09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	408	102	1334	1382	0.295	409	598	0.8	0.4	3.937	A
A43 (S)	1173	293	479	2239	0.524	1176	1265	2.1	1.3	3.926	A
B4100 (W)	466	117	1216	1394	0.334	467	439	0.9	0.6	4.253	A
A43 (N)	1390	347	531	2143	0.649	1401	1152	4.9	2.2	5.695	A



# 2019 Baseline + Western Development, 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	14.47	B

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	3	A43 (S)	14.47	B

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2019 Baseline + Western Development	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	716	100.000
A43 (S)		ONE HOUR	✓	1747	100.000
B4100 (W)		ONE HOUR	✓	521	100.000
A43 (N)		ONE HOUR	✓	1508	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	150	264	302
	A43 (S)	116	0	49	1582
	B4100 (W)	237	151	6	127
	A43 (N)	239	1169	100	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	10	1	5
	A43 (S)	9	0	5	7
	B4100 (W)	2	3	0	3
	A43 (N)	5	10	3	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.63	8.11	1.8	A	657	986
A43 (S)	0.93	22.91	11.5	C	1603	2405
B4100 (W)	0.66	12.45	1.9	B	478	717
A43 (N)	0.78	8.41	3.8	A	1384	2076

## Main Results for each time segment

### 16:45 - 17:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	539	135	1069	1530	0.352	537	444	0.0	0.6	3.780	A
A43 (S)	1315	329	504	2223	0.592	1309	1102	0.0	1.5	4.189	A
B4100 (W)	392	98	1499	1242	0.316	390	314	0.0	0.5	4.321	A
A43 (N)	1135	284	382	2233	0.508	1131	1507	0.0	1.1	3.535	A

### 17:00 - 17:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	644	161	1279	1413	0.456	642	531	0.6	0.9	4.874	A
A43 (S)	1571	393	603	2162	0.726	1566	1319	1.5	2.8	6.411	A
B4100 (W)	468	117	1793	1085	0.432	467	376	0.5	0.8	5.961	A
A43 (N)	1356	339	457	2187	0.620	1353	1803	1.1	1.7	4.676	A

### 17:15 - 17:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1562	1256	0.628	785	647	0.9	1.7	7.932	A
A43 (S)	1923	481	737	2079	0.925	1893	1610	2.8	10.3	18.383	C
B4100 (W)	574	143	2171	883	0.650	569	459	0.8	1.8	11.626	B
A43 (N)	1660	415	556	2127	0.781	1652	2184	1.7	3.7	8.111	A

### 17:30 - 17:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	788	197	1570	1251	0.630	788	651	1.7	1.8	8.113	A
A43 (S)	1923	481	740	2077	0.926	1919	1618	10.3	11.5	22.907	C
B4100 (W)	574	143	2197	869	0.660	573	461	1.8	1.9	12.453	B
A43 (N)	1660	415	561	2124	0.782	1660	2210	3.7	3.8	8.410	A

### 17:45 - 18:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	644	161	1290	1407	0.458	647	538	1.8	0.9	4.973	A
A43 (S)	1571	393	607	2159	0.727	1605	1330	11.5	2.9	7.368	A
B4100 (W)	468	117	1833	1064	0.440	473	379	1.9	0.8	6.290	A
A43 (N)	1356	339	464	2183	0.621	1364	1841	3.8	1.8	4.819	A

### 18:00 - 18:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	539	135	1076	1526	0.353	540	447	0.9	0.6	3.820	A
A43 (S)	1315	329	507	2221	0.592	1321	1109	2.9	1.6	4.307	A
B4100 (W)	392	98	1512	1236	0.317	394	316	0.8	0.5	4.390	A
A43 (N)	1135	284	385	2231	0.509	1138	1520	1.8	1.1	3.587	A



# 2019 Baseline + Eastern Development, 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	30.09	D

### Junction Network

Driving side	Lighting	Res Cap (%)	First arm reaching threshold	Network delay (s)	Network LOS
Left	Normal/unknown	-4	A43 (N)	30.09	D

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2019 Baseline + Eastern Development	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
B4100(E)		ONE HOUR	✓	413	100.000
A43 (S)		ONE HOUR	✓	1539	100.000
B4100 (W)		ONE HOUR	✓	543	100.000
A43 (N)		ONE HOUR	✓	1836	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	95	77	241
	A43 (S)	227	0	138	1174
	B4100 (W)	261	166	12	104
	A43 (N)	308	1392	136	0

## Vehicle Mix

### HV %s

		To			
		B4100(E)	A43 (S)	B4100 (W)	A43 (N)
From	B4100(E)	0	22	4	8
	A43 (S)	11	0	9	17
	B4100 (W)	7	6	8	6
	A43 (N)	9	18	9	0

# Results

## Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B4100(E)	0.41	6.15	0.8	A	379	568
A43 (S)	0.76	7.89	3.7	A	1412	2118
B4100 (W)	0.56	8.00	1.3	A	498	747
A43 (N)	1.00	60.61	34.3	F	1685	2527

## Main Results for each time segment

### 07:45 - 08:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	311	78	1277	1414	0.220	310	596	0.0	0.3	3.586	A
A43 (S)	1159	290	349	2319	0.500	1154	1238	0.0	1.1	3.551	A
B4100 (W)	409	102	1231	1386	0.295	407	272	0.0	0.4	3.912	A
A43 (N)	1382	346	499	2162	0.639	1374	1139	0.0	2.0	5.235	A

### 08:00 - 08:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	371	93	1527	1275	0.291	371	713	0.3	0.4	4.379	A
A43 (S)	1384	346	418	2277	0.608	1381	1479	1.1	1.8	4.622	A
B4100 (W)	488	122	1474	1256	0.389	487	325	0.4	0.7	4.982	A
A43 (N)	1651	413	598	2102	0.785	1642	1363	2.0	4.0	8.907	A

### 08:15 - 08:30

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1811	1117	0.407	454	861	0.4	0.7	5.960	A
A43 (S)	1694	424	506	2222	0.763	1687	1758	1.8	3.6	7.662	A
B4100 (W)	598	149	1801	1081	0.553	595	393	0.7	1.3	7.856	A
A43 (N)	2021	505	730	2021	1.000	1941	1666	4.0	24.1	35.467	E

### 08:30 - 08:45

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	455	114	1844	1099	0.414	455	869	0.7	0.8	6.154	A
A43 (S)	1694	424	510	2219	0.763	1694	1789	3.6	3.7	7.892	A
B4100 (W)	598	149	1808	1077	0.555	598	397	1.3	1.3	7.996	A
A43 (N)	2021	505	733	2019	1.001	1981	1672	24.1	34.3	60.614	F

### 08:45 - 09:00

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	371	93	1634	1216	0.305	372	738	0.8	0.5	4.705	A
A43 (S)	1384	346	429	2270	0.610	1391	1577	3.7	1.8	4.762	A
B4100 (W)	488	122	1483	1251	0.390	491	336	1.3	0.7	5.061	A
A43 (N)	1651	413	602	2099	0.786	1770	1372	34.3	4.5	17.018	C

### 09:00 - 09:15

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)											
A43 (S)											
B4100 (W)											
A43 (N)											

Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B4100(E)	311	78	1293	1405	0.221	312	602	0.5	0.3	3.628	A
A43 (S)	1159	290	352	2317	0.500	1161	1252	1.8	1.2	3.601	A
B4100 (W)	409	102	1239	1381	0.296	410	274	0.7	0.5	3.950	A
A43 (N)	1382	346	503	2160	0.640	1392	1146	4.5	2.1	5.489	A