

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1 - A50 (W)	0.91	17.56	10.7	C
2 - A521	0.46	4.46	0.9	A
3 - A50 (S)	0.81	10.72	4.9	B

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2275	56	2506	0.908	2237	9.5	13.790	B
2 - A521	717	1666	1591	0.451	714	0.9	4.316	A
3 - A50 (S)	1677	635	2070	0.810	1658	4.7	9.794	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2275	57	2506	0.908	2272	10.3	17.116	C
2 - A521	717	1692	1570	0.457	717	0.9	4.453	A
3 - A50 (S)	1677	638	2068	0.811	1676	4.8	10.683	B

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2275	57	2506	0.908	2274	10.6	17.429	C
2 - A521	717	1693	1569	0.457	717	0.9	4.459	A
3 - A50 (S)	1677	638	2068	0.811	1677	4.9	10.714	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2275	57	2506	0.908	2274	10.7	17.557	C
2 - A521	717	1694	1569	0.457	717	0.9	4.461	A
3 - A50 (S)	1677	638	2068	0.811	1677	4.9	10.724	B

2033 Base + Committed Development + 220 Dw, 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	A50/A521	Standard Roundabout		1, 2, 3	111.12	F

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D8	2033 Base + Committed Development + 220 Dw	PM	FLAT	17:00	18:00	60	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1 - A50 (W)		✓	2473	100.000
2 - A521		✓	863	100.000
3 - A50 (S)		✓	2048	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1 - A50 (W)	2 - A521	3 - A50 (S)
From	1 - A50 (W)	0	774	1699
	2 - A521	816	0	47
	3 - A50 (S)	1966	82	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		1 - A50 (W)	2 - A521	3 - A50 (S)
From	1 - A50 (W)	0	3	11
	2 - A521	2	0	3
	3 - A50 (S)	11	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
1 - A50 (W)	0.99	64.47	43.2	F
2 - A521	0.55	5.16	1.2	A
3 - A50 (S)	1.06	212.10	125.1	F

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2473	76	2492	0.992	2380	23.1	25.628	D
2 - A521	863	1635	1614	0.535	858	1.2	4.831	A
3 - A50 (S)	2048	812	1942	1.054	1890	39.6	46.383	E

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2473	77	2491	0.993	2438	31.9	46.838	E
2 - A521	863	1675	1583	0.545	863	1.2	5.098	A
3 - A50 (S)	2048	816	1939	1.056	1931	69.0	109.171	F

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2473	77	2491	0.993	2448	38.2	56.844	F
2 - A521	863	1682	1578	0.547	863	1.2	5.138	A
3 - A50 (S)	2048	816	1939	1.056	1935	97.2	161.004	F

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
1 - A50 (W)	2473	78	2491	0.993	2453	43.2	64.465	F
2 - A521	863	1685	1575	0.548	863	1.2	5.158	A
3 - A50 (S)	2048	816	1939	1.056	1937	125.1	212.099	F

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.5.0.6896

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Filename: 05416_Utttoxeter Road_Cheadle Road Crossroads.j9

Path: C:\Users\Matthew Wykes\Documents\Junction Modelling\05416 Blythe Birdge Ph2 Modelling Jun21

Report generation date: 07/06/2021 16:45:27

»2021 Base, AM

»2021 Base, PM

»2026 Base + Committed, AM

»2026 Base + Committed, PM

»2026 Base + Committed + 220 Dw, AM

»2026 Base + Committed + 220 Dw, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2021 Base								
Stream B-CD	0.1	11.05	0.11	B	1.2	52.16	0.56	F
Stream B-AD	1.8	21.40	0.64	C	7.1	68.89	0.89	F
Stream A-BCD	0.3	4.64	0.12	A	0.7	4.82	0.26	A
Stream D-ABC	0.5	11.15	0.34	B	0.6	13.95	0.38	B
Stream C-ABD	0.2	6.38	0.14	A	0.3	7.71	0.18	A
2026 Base + Committed								
Stream B-CD	0.1	11.13	0.12	B	4.4	183.76	0.87	F
Stream B-AD	1.8	22.14	0.65	C	9.5	92.10	0.92	F
Stream A-BCD	0.3	4.61	0.12	A	0.8	4.85	0.27	A
Stream D-ABC	0.6	11.49	0.35	B	0.7	14.63	0.40	B
Stream C-ABD	0.2	6.41	0.15	A	0.3	7.78	0.19	A
2026 Base + Committed + 220 Dw								
Stream B-CD	0.1	11.17	0.12	B	4.7	186.96	0.88	F
Stream B-AD	1.9	22.36	0.65	C	9.9	95.86	0.92	F
Stream A-BCD	0.3	4.62	0.12	A	0.8	4.85	0.27	A
Stream D-ABC	0.6	11.52	0.35	B	0.7	14.71	0.40	B
Stream C-ABD	0.3	6.43	0.15	A	0.3	7.81	0.19	A

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

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	28/09/2017
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	PJA\bethlinnell
Description	

Units

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

Analysis Options

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

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D1	2021 Base	AM	FLAT	08:00	09:30	90	15
D2	2021 Base	PM	FLAT	17:00	18:30	90	15
D3	2026 Base + Committed	AM	FLAT	08:00	09:30	90	15
D4	2026 Base + Committed	PM	FLAT	17:00	18:30	90	15
D5	2026 Base + Committed + 220 Dw	AM	FLAT	08:00	09:30	90	15
D6	2026 Base + Committed + 220 Dw	PM	FLAT	17:00	18:30	90	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		7.69	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Uttoxeter Road (W)		Major
B	Cheadle Road		Minor
C	Uttoxeter Road (E)		Major
D	Stallington Road		Minor

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
A - Uttoxeter Road (W)	6.50			125.0	✓	0.00
C - Uttoxeter Road (E)	6.50			140.0	✓	0.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Cheadle Road	One lane plus flare		10.00	9.00	7.00	6.70	5.30	✓	3.00	70	120
D - Stallington Road	One lane	2.40								120	80

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-C	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-A	Slope for D-B	Slope for D-C
1	A-D	646	-	-	-	-	-	-	0.245	0.350	0.245	-	-	-
1	B-A	668	0.119	0.301	0.301	-	-	-	0.189	0.430	-	0.301	0.301	0.151
1	B-C	677	0.101	0.257	-	-	-	-	-	-	-	-	-	-
1	B-D, nearside lane	542	0.097	0.244	0.244	-	-	-	0.154	0.349	0.154	-	-	-
1	B-D, offside lane	668	0.119	0.301	0.301	-	-	-	0.189	0.430	0.189	-	-	-
1	C-B	655	0.248	0.248	0.355	-	-	-	-	-	-	-	-	-
1	D-A	634	-	-	-	-	-	-	0.240	-	0.095	-	-	-
1	D-B, nearside lane	524	0.148	0.148	0.337	-	-	-	0.236	0.236	0.093	-	-	-
1	D-B, offside lane	524	0.148	0.148	0.337	-	-	-	0.236	0.236	0.093	-	-	-
1	D-C	524	-	0.148	0.337	0.118	0.236	0.236	0.236	0.236	0.093	-	-	-

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

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D1	2021 Base	AM	FLAT	08:00	09:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	508	100.000
B - Cheadle Road		✓	342	100.000
C - Uttoxeter Road (E)		✓	265	100.000
D - Stallington Road		✓	169	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	366	93	49
	B - Cheadle Road	298	0	17	27
	C - Uttoxeter Road (E)	161	66	0	38
	D - Stallington Road	109	44	16	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	2	1	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.11	11.05	0.1	B
B-AD	0.64	21.40	1.8	C
A-BCD	0.12	4.64	0.3	A
A-B				
A-C				
D-ABC	0.34	11.15	0.5	B
C-ABD	0.14	6.38	0.2	A
C-D				
C-A				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	372	0.105	39	0.1	10.772	B
B-AD	303	475	0.638	296	1.7	19.833	C
A-BCD	102	887	0.114	101	0.3	4.619	A
A-B	324			324			
A-C	82			82			
D-ABC	169	497	0.340	167	0.5	10.997	B
C-ABD	94	665	0.142	93	0.2	6.355	A
C-D	33			33			
C-A	138			138			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	365	0.107	39	0.1	11.034	B
B-AD	303	474	0.639	303	1.7	21.318	C
A-BCD	102	887	0.115	102	0.3	4.633	A
A-B	324			324			
A-C	82			82			
D-ABC	169	496	0.341	169	0.5	11.144	B
C-ABD	94	665	0.142	94	0.2	6.380	A
C-D	33			33			
C-A	138			138			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	365	0.107	39	0.1	11.042	B
B-AD	303	474	0.639	303	1.8	21.368	C
A-BCD	102	887	0.115	102	0.3	4.634	A
A-B	324			324			
A-C	82			82			
D-ABC	169	496	0.341	169	0.5	11.146	B
C-ABD	95	665	0.142	94	0.2	6.380	A
C-D	33			33			
C-A	138			138			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	365	0.107	39	0.1	11.045	B
B-AD	303	474	0.639	303	1.8	21.385	C
A-BCD	102	887	0.115	102	0.3	4.635	A
A-B	324			324			
A-C	82			82			
D-ABC	169	496	0.341	169	0.5	11.146	B
C-ABD	95	665	0.142	95	0.2	6.380	A
C-D	33			33			
C-A	138			138			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	365	0.107	39	0.1	11.046	B
B-AD	303	474	0.639	303	1.8	21.394	C
A-BCD	102	887	0.115	102	0.3	4.634	A
A-B	324			324			
A-C	82			82			
D-ABC	169	496	0.341	169	0.5	11.146	B
C-ABD	95	665	0.142	95	0.2	6.378	A
C-D	33			33			
C-A	138			138			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	39	365	0.107	39	0.1	11.047	B
B-AD	303	474	0.639	303	1.8	21.401	C
A-BCD	102	887	0.115	102	0.3	4.634	A
A-B	324			324			
A-C	82			82			
D-ABC	169	496	0.341	169	0.5	11.146	B
C-ABD	95	665	0.142	95	0.2	6.381	A
C-D	33			33			
C-A	138			138			

2021 Base, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		22.07	C

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D2	2021 Base	PM	FLAT	17:00	18:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	748	100.000
B - Cheadle Road		✓	475	100.000
C - Uttoxeter Road (E)		✓	227	100.000
D - Stallington Road		✓	162	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	511	140	97
	B - Cheadle Road	385	0	43	47
	C - Uttoxeter Road (E)	112	74	0	41
	D - Stallington Road	68	44	50	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	1	2	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.56	52.16	1.2	F
B-AD	0.89	68.89	7.1	F
A-BCD	0.26	4.82	0.7	A
A-B				
A-C				
D-ABC	0.38	13.95	0.6	B
C-ABD	0.18	7.71	0.3	A
C-D				
C-A				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	87	220	0.396	85	0.6	26.204	D
B-AD	388	439	0.884	367	5.2	43.240	E
A-BCD	267	1023	0.261	264	0.7	4.778	A
A-B	378			378			
A-C	104			104			
D-ABC	162	426	0.380	160	0.6	13.569	B
C-ABD	101	573	0.176	100	0.3	7.657	A
C-D	34			34			
C-A	92			92			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	88	173	0.511	87	1.0	41.315	E
B-AD	387	437	0.885	383	6.1	61.321	F
A-BCD	269	1024	0.263	269	0.7	4.822	A
A-B	376			376			
A-C	103			103			
D-ABC	162	424	0.382	162	0.6	13.913	B
C-ABD	101	572	0.177	101	0.3	7.708	A
C-D	34			34			
C-A	92			92			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	88	165	0.537	88	1.1	46.385	E
B-AD	387	437	0.885	385	6.5	65.099	F
A-BCD	269	1024	0.263	269	0.7	4.822	A
A-B	376			376			
A-C	103			103			
D-ABC	162	424	0.382	162	0.6	13.934	B
C-ABD	101	572	0.177	101	0.3	7.709	A
C-D	34			34			
C-A	92			92			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	89	161	0.550	88	1.2	49.117	E
B-AD	386	437	0.885	385	6.8	66.979	F
A-BCD	269	1024	0.263	269	0.7	4.823	A
A-B	376			376			
A-C	103			103			
D-ABC	162	424	0.382	162	0.6	13.944	B
C-ABD	101	572	0.177	101	0.3	7.709	A
C-D	34			34			
C-A	92			92			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	89	159	0.559	88	1.2	50.899	F
B-AD	386	437	0.885	386	7.0	68.121	F
A-BCD	269	1024	0.263	269	0.7	4.823	A
A-B	376			376			
A-C	103			103			
D-ABC	162	424	0.382	162	0.6	13.948	B
C-ABD	101	572	0.177	101	0.3	7.709	A
C-D	34			34			
C-A	92			92			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	89	157	0.564	89	1.2	52.160	F
B-AD	386	437	0.885	386	7.1	68.894	F
A-BCD	269	1024	0.263	269	0.7	4.823	A
A-B	376			376			
A-C	103			103			
D-ABC	162	424	0.382	162	0.6	13.951	B
C-ABD	101	572	0.177	101	0.3	7.708	A
C-D	34			34			
C-A	92			92			

2026 Base + Committed, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		7.85	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D3	2026 Base + Committed	AM	FLAT	08:00	09:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	518	100.000
B - Cheadle Road		✓	346	100.000
C - Uttoxeter Road (E)		✓	272	100.000
D - Stallington Road		✓	173	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	366	103	49
	B - Cheadle Road	298	0	21	27
	C - Uttoxeter Road (E)	166	68	0	38
	D - Stallington Road	109	44	20	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	2	1	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.12	11.13	0.1	B
B-AD	0.65	22.14	1.8	C
A-BCD	0.12	4.61	0.3	A
A-B				
A-C				
D-ABC	0.35	11.49	0.6	B
C-ABD	0.15	6.41	0.2	A
C-D				
C-A				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	375	0.115	43	0.1	10.827	B
B-AD	303	469	0.645	296	1.7	20.428	C
A-BCD	103	892	0.116	102	0.3	4.598	A
A-B	324			324			
A-C	91			91			
D-ABC	173	491	0.352	171	0.5	11.318	B
C-ABD	98	666	0.147	97	0.2	6.382	A
C-D	32			32			
C-A	142			142			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	367	0.118	43	0.1	11.117	B
B-AD	303	468	0.646	302	1.8	22.051	C
A-BCD	104	893	0.116	104	0.3	4.614	A
A-B	323			323			
A-C	91			91			
D-ABC	173	490	0.353	173	0.5	11.483	B
C-ABD	98	666	0.148	98	0.2	6.408	A
C-D	32			32			
C-A	141			141			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	367	0.118	43	0.1	11.126	B
B-AD	303	468	0.646	303	1.8	22.108	C
A-BCD	104	893	0.116	104	0.3	4.613	A
A-B	323			323			
A-C	91			91			
D-ABC	173	490	0.353	173	0.5	11.486	B
C-ABD	98	666	0.148	98	0.2	6.411	A
C-D	32			32			
C-A	141			141			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	367	0.118	43	0.1	11.129	B
B-AD	303	468	0.646	303	1.8	22.128	C
A-BCD	104	893	0.116	104	0.3	4.613	A
A-B	323			323			
A-C	91			91			
D-ABC	173	490	0.353	173	0.5	11.486	B
C-ABD	98	666	0.148	98	0.2	6.411	A
C-D	32			32			
C-A	141			141			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	367	0.118	43	0.1	11.131	B
B-AD	303	468	0.646	303	1.8	22.140	C
A-BCD	104	893	0.116	104	0.3	4.615	A
A-B	323			323			
A-C	91			91			
D-ABC	173	490	0.353	173	0.5	11.486	B
C-ABD	98	666	0.148	98	0.2	6.408	A
C-D	32			32			
C-A	141			141			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	43	367	0.118	43	0.1	11.132	B
B-AD	303	468	0.646	303	1.8	22.143	C
A-BCD	104	893	0.116	104	0.3	4.615	A
A-B	323			323			
A-C	91			91			
D-ABC	173	490	0.353	173	0.6	11.486	B
C-ABD	98	666	0.148	98	0.2	6.411	A
C-D	32			32			
C-A	141			141			

2026 Base + Committed, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		34.96	D

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D4	2026 Base + Committed	PM	FLAT	17:00	18:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	767	100.000
B - Cheadle Road		✓	486	100.000
C - Uttoxeter Road (E)		✓	239	100.000
D - Stallington Road		✓	166	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	520	148	99
	B - Cheadle Road	392	0	46	48
	C - Uttoxeter Road (E)	119	77	0	43
	D - Stallington Road	69	45	52	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	1	2	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.87	183.76	4.4	F
B-AD	0.92	92.10	9.5	F
A-BCD	0.27	4.85	0.8	A
A-B				
A-C				
D-ABC	0.40	14.63	0.7	B
C-ABD	0.19	7.78	0.3	A
C-D				
C-A				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	92	191	0.480	88	0.9	33.972	D
B-AD	394	431	0.915	370	6.2	48.863	E
A-BCD	280	1033	0.272	277	0.8	4.804	A
A-B	379			379			
A-C	108			108			
D-ABC	166	420	0.395	163	0.6	14.096	B
C-ABD	107	575	0.186	106	0.3	7.724	A
C-D	35			35			
C-A	97			97			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	93	129	0.720	89	2.0	80.750	F
B-AD	393	429	0.917	387	7.5	74.509	F
A-BCD	283	1034	0.274	283	0.8	4.850	A
A-B	377			377			
A-C	107			107			
D-ABC	166	417	0.398	166	0.7	14.503	B
C-ABD	108	575	0.187	108	0.3	7.780	A
C-D	35			35			
C-A	97			97			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	94	117	0.800	90	2.8	118.478	F
B-AD	392	428	0.917	389	8.3	81.957	F
A-BCD	283	1034	0.274	283	0.8	4.853	A
A-B	377			377			
A-C	107			107			
D-ABC	166	417	0.398	166	0.7	14.554	B
C-ABD	108	575	0.187	108	0.3	7.781	A
C-D	35			35			
C-A	97			97			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	94	110	0.850	91	3.6	152.429	F
B-AD	392	427	0.918	390	8.8	86.448	F
A-BCD	283	1034	0.274	283	0.8	4.853	A
A-B	377			377			
A-C	107			107			
D-ABC	166	416	0.399	166	0.7	14.585	B
C-ABD	108	575	0.187	108	0.3	7.781	A
C-D	35			35			
C-A	97			97			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	94	108	0.869	91	4.2	177.555	F
B-AD	392	427	0.919	391	9.2	89.687	F
A-BCD	283	1034	0.274	283	0.8	4.851	A
A-B	377			377			
A-C	107			107			
D-ABC	166	416	0.399	166	0.7	14.611	B
C-ABD	108	575	0.187	108	0.3	7.780	A
C-D	35			35			
C-A	97			97			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	94	110	0.853	93	4.4	183.756	F
B-AD	392	427	0.919	391	9.5	92.104	F
A-BCD	283	1034	0.274	283	0.8	4.853	A
A-B	377			377			
A-C	107			107			
D-ABC	166	415	0.400	166	0.7	14.635	B
C-ABD	108	575	0.187	108	0.3	7.780	A
C-D	35			35			
C-A	97			97			

2026 Base + Committed + 220 Dw, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		7.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D5	2026 Base + Committed + 220 Dw	AM	FLAT	08:00	09:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	519	100.000
B - Cheadle Road		✓	347	100.000
C - Uttoxeter Road (E)		✓	276	100.000
D - Stallington Road		✓	173	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	366	104	49
	B - Cheadle Road	298	0	22	27
	C - Uttoxeter Road (E)	168	70	0	38
	D - Stallington Road	109	44	20	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	2	1	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.12	11.17	0.1	B
B-AD	0.65	22.36	1.9	C
A-BCD	0.12	4.62	0.3	A
A-B				
A-C				
D-ABC	0.35	11.52	0.6	B
C-ABD	0.15	6.43	0.3	A
C-D				
C-A				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	375	0.118	44	0.1	10.836	B
B-AD	303	468	0.647	296	1.8	20.603	C
A-BCD	104	892	0.116	102	0.3	4.601	A
A-B	324			324			
A-C	92			92			
D-ABC	173	490	0.353	171	0.5	11.351	B
C-ABD	101	667	0.152	100	0.3	6.405	A
C-D	32			32			
C-A	143			143			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	367	0.121	44	0.1	11.152	B
B-AD	303	467	0.649	302	1.8	22.266	C
A-BCD	104	892	0.117	104	0.3	4.617	A
A-B	323			323			
A-C	92			92			
D-ABC	173	489	0.353	173	0.5	11.517	B
C-ABD	102	667	0.152	102	0.3	6.432	A
C-D	32			32			
C-A	142			142			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	367	0.121	44	0.1	11.161	B
B-AD	303	467	0.649	303	1.8	22.326	C
A-BCD	104	892	0.117	104	0.3	4.617	A
A-B	323			323			
A-C	92			92			
D-ABC	173	489	0.354	173	0.5	11.519	B
C-ABD	102	667	0.152	102	0.3	6.432	A
C-D	32			32			
C-A	142			142			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	367	0.121	44	0.1	11.164	B
B-AD	303	467	0.649	303	1.8	22.345	C
A-BCD	104	892	0.117	104	0.3	4.616	A
A-B	323			323			
A-C	92			92			
D-ABC	173	489	0.354	173	0.6	11.520	B
C-ABD	102	667	0.152	102	0.3	6.432	A
C-D	32			32			
C-A	142			142			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	367	0.121	44	0.1	11.166	B
B-AD	303	467	0.649	303	1.9	22.356	C
A-BCD	104	892	0.117	104	0.3	4.616	A
A-B	323			323			
A-C	92			92			
D-ABC	173	489	0.354	173	0.6	11.520	B
C-ABD	102	667	0.152	102	0.3	6.435	A
C-D	32			32			
C-A	142			142			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	44	367	0.121	44	0.1	11.167	B
B-AD	303	467	0.649	303	1.9	22.363	C
A-BCD	104	892	0.117	104	0.3	4.617	A
A-B	323			323			
A-C	92			92			
D-ABC	173	489	0.354	173	0.6	11.520	B
C-ABD	102	667	0.152	102	0.3	6.432	A
C-D	32			32			
C-A	142			142			

2026 Base + Committed + 220 Dw, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Major road direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	Crossroads	Two-way		36.13	E

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time period length (min)	Time segment length (min)
D6	2026 Base + Committed + 220 Dw	PM	FLAT	17:00	18:30	90	15

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

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Uttoxeter Road (W)		✓	770	100.000
B - Cheadle Road		✓	488	100.000
C - Uttoxeter Road (E)		✓	241	100.000
D - Stallington Road		✓	166	100.000

Origin-Destination Data

Demand (PCU/hr)

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	520	151	99
	B - Cheadle Road	392	0	48	48
	C - Uttoxeter Road (E)	120	78	0	43
	D - Stallington Road	69	45	52	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
From		A - Uttoxeter Road (W)	B - Cheadle Road	C - Uttoxeter Road (E)	D - Stallington Road
	A - Uttoxeter Road (W)	0	1	2	0
	B - Cheadle Road	2	0	0	0
	C - Uttoxeter Road (E)	4	0	0	0
	D - Stallington Road	2	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-CD	0.88	186.96	4.7	F
B-AD	0.92	95.86	9.9	F
A-BCD	0.27	4.85	0.8	A
A-B				
A-C				
D-ABC	0.40	14.71	0.7	B
C-ABD	0.19	7.81	0.3	A
C-D				
C-A				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	94	189	0.496	90	0.9	35.180	E
B-AD	394	429	0.919	369	6.3	49.617	E
A-BCD	282	1034	0.273	279	0.8	4.803	A
A-B	378			378			
A-C	110			110			
D-ABC	166	419	0.396	163	0.6	14.152	B
C-ABD	109	575	0.189	108	0.3	7.749	A
C-D	35			35			
C-A	97			97			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	95	126	0.759	90	2.3	89.957	F
B-AD	393	427	0.920	387	7.7	76.351	F
A-BCD	284	1035	0.275	284	0.8	4.852	A
A-B	376			376			
A-C	109			109			
D-ABC	166	416	0.399	166	0.7	14.567	B
C-ABD	109	575	0.190	109	0.3	7.808	A
C-D	35			35			
C-A	97			97			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	96	113	0.850	91	3.4	139.926	F
B-AD	392	426	0.921	389	8.6	84.495	F
A-BCD	284	1035	0.275	284	0.8	4.852	A
A-B	376			376			
A-C	109			109			
D-ABC	166	415	0.400	166	0.7	14.628	B
C-ABD	109	575	0.190	109	0.3	7.807	A
C-D	35			35			
C-A	97			97			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	96	109	0.879	93	4.2	174.485	F
B-AD	392	425	0.922	390	9.2	89.589	F
A-BCD	284	1035	0.275	284	0.8	4.853	A
A-B	376			376			
A-C	109			109			
D-ABC	166	415	0.400	166	0.7	14.666	B
C-ABD	109	575	0.190	109	0.3	7.809	A
C-D	35			35			
C-A	97			97			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	96	112	0.859	95	4.5	182.936	F
B-AD	392	425	0.923	390	9.6	93.225	F
A-BCD	284	1035	0.275	284	0.8	4.851	A
A-B	376			376			
A-C	109			109			
D-ABC	166	414	0.401	166	0.7	14.694	B
C-ABD	109	575	0.190	109	0.3	7.807	A
C-D	35			35			
C-A	97			97			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-CD	96	112	0.854	95	4.7	186.961	F
B-AD	392	425	0.923	391	9.9	95.859	F
A-BCD	284	1035	0.275	284	0.8	4.853	A
A-B	376			376			
A-C	109			109			
D-ABC	166	414	0.401	166	0.7	14.711	B
C-ABD	109	575	0.190	109	0.3	7.809	A
C-D	35			35			
C-A	97			97			