

Appendix 7.3

P'posed Dev ES% Impact

A44 Oxford Road	AM Peak	PM Peak	Daily
Baseline	1531	1354	14940
Development	5	6	43
2028 with Development	1536	1361	14983
% Change	0.3%	0.5%	0.3%

A4095 Grove Road	AM Peak	PM Peak	Daily
Baseline	1534	1468	12957
Development	5	6	43
2028 with Development	1539	1475	13001
% Change	0.3%	0.4%	0.3%

A4095 Upper Campsfield Road	AM Peak	PM Peak	Daily
Baseline	909	827	8410
Development	37	14	199
2028 with Development	945	840	8609
% Change	4.0%	1.6%	2.4%

Langford Lane	AM Peak	PM Peak	Daily
Baseline	1187	1115	11576
Development	23	23	180
2028 with Development	1210	1137	11756
% Change	1.9%	2.0%	1.6%

Begbroke Science Park	AM Peak	PM Peak	Daily
Baseline	293	254	2437
Development	0	0	0
2028 with Development	293	254	2437
% Change	0.0%	0.0%	0.0%

A4260 Frieze Way	AM Peak	PM Peak	Daily
Baseline	932	1304	13193
Development	19	11	117
2028 with Development	950	1315	13310
% Change	2.0%	0.8%	0.9%

A44 Woodstock Road (South of Loop Farm Roundabout)	AM Peak	PM Peak	Daily
Baseline	2792	3196	29515
Development	96	159	1009
2028 with Development	2888	3355	30524
% Change	3.4%	5.0%	3.4%

A44 Woodstock Road (North of Loop Farm Roundabout)	AM Peak	PM Peak	Daily
Baseline	2429	2709	25099
Development	114	170	1126
2028 with Development	2543	2879	26225
% Change	4.7%	6.3%	4.5%

Cassington Road	AM Peak	PM Peak	Daily
Baseline	256	362	3030
Development	1	2	13
2028 with Development	257	364	3043
% Change	0.5%	0.5%	0.4%

Rutten Lane (South of Merton Way)	AM Peak	PM Peak	Daily
Baseline	357	317	3391
Development	2	3	23
2028 with Development	359	320	3414
% Change	0.7%	1.1%	0.7%

Cumulative ES % Impact

A44 Oxford Road	AM Peak	PM Peak	Daily
Baseline	1455	1291	14482
Committed Development	158	163	1178
Development	5	6	43
2031 with Development	1618	1460	15703
% Change	11.2%	13.1%	8.4%

A4095 Grove Road	AM Peak	PM Peak	Daily
Baseline	1520	1458	12882
Committed Development	24	22	161
Development	5	6	43
2031 with Development	1548	1487	13087
% Change	1.9%	1.9%	1.6%

A4095 Upper Campsfield Road	AM Peak	PM Peak	Daily
Baseline	903	823	8379
Committed Development	104	124	896
Development	37	14	199
2031 with Development	1044	960	9474
% Change	15.6%	16.7%	13.1%

Langford Lane	AM Peak	PM Peak	Daily
Baseline	1184	1113	11560
Committed Development	67	79	575
Development	23	23	180
2031 with Development	1274	1215	12315
% Change	7.6%	9.2%	6.5%

Begbroke Science Park	AM Peak	PM Peak	Daily
Baseline	204	176	1913
Committed Development	400	456	3257
Development	0	0	0
2031 with Development	604	632	5169
% Change	196.1%	259.4%	170.3%

A4260 Frieze Way	AM Peak	PM Peak	Daily
Baseline	871	1231	12753
Committed Development	273	334	2314
Development	19	11	117
2031 with Development	1162	1576	15184
% Change	33.5%	28.1%	19.1%

A44 Woostock Road (South of Loop Farm Roundabout)	AM Peak	PM Peak	Daily
Baseline	2617	3020	28375
Committed Development	660	769	5408
Development	96	159	1009
2031 with Development	3373	3948	34792
% Change	28.9%	30.7%	22.6%

A44 Woodstock Road (North of Loop Farm Roundabout)	AM Peak	PM Peak	Daily
Baseline	2307	2598	24349
Committed Development	628	726	5194
Development	114	170	1126
2031 with Development	3049	3494	30670
% Change	32.2%	34.5%	26.0%

Cassington Road	AM Peak	PM Peak	Daily
Baseline	256	362	3030
Committed Development	3	4	30
Development	1	2	13
2031 with Development	261	368	3073
% Change	1.9%	1.7%	1.4%

Rutten Lane (South of Merton Way)	AM Peak	PM Peak	Daily
Baseline	357	317	3391
Committed Development	0	0	0
Development	2	3	23
2031 with Development	359	320	3414
% Change	0.7%	1.1%	0.7%

# Yarnton, Cherwell

## Environmental Statement Methodology

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162751/N04

### Introduction

1. This note has been produced to provide a guide to how the Environmental Statement Chapter (ES) for Yarnton was undertaken and the assumptions alongside it.

### Scenarios and Study Area

2. Two assessments were undertaken including:
  - The year of completion, 2028, which comprised of the following scenarios:
    - Baseline Year
    - Proposed Development;
    - 2028 with Development
  - A cumulative assessment to the end of the Local Plan period of 2031. This comprised the following scenarios:
    - Baseline Year
    - Committed Development
    - Proposed Development;
    - 2031 with Development
3. A total of 10 Links were assessed comprising:
  - Link 1: A44 Oxford Road
  - Link 2: A4095 Grove Road
  - Link 3: A4095 Upper Campsfield Road
  - Link 4: Langford Lane
  - Link 5: Begbroke Science Park
  - Link 6: A4260 Frieze Way
  - Link 7: A44 Woodstock Road (South of Loop Farm Roundabout)
  - Link 8: A44 Woodstock Road (North of Loop Farm Roundabout)
  - Link 9: Cassington Road:
  - Link 10: Rutten Lane (South of Merton Way)

### Base Flows

4. The source of the Base flows Provided are summarised in Table 1 below.

**Table 1: Base flow data sources**

Link	Link Location	Base flow data source
1	A44 Oxford Road	ATC
2	A4095 Grove Road	ATC
3	A4095 Upper Campsfield Road	ATC
4	Langford Lane	Factored up from traffic model flows that inform the TA
5	Begbroke Science Park	Factored up from traffic model flows that inform the TA
6	A4260 Frieze Way	ATC
7	A44 Woodstock Road (South of Loop Farm Roundabout)	Factored up from traffic model flows that inform the TA
8	A44 Woodstock Road (North of Loop Farm Roundabout)	ATC
9	Cassington Road	ATC
10	Rutten Lane (South of Merton Way)	Factored up from traffic model flows that inform the TA

- Please note the Friday ATC survey day for Link 3 was excluded due to Easter Holidays reducing the flows on this day to avoid skewing the data.

**Daily scaling factors**

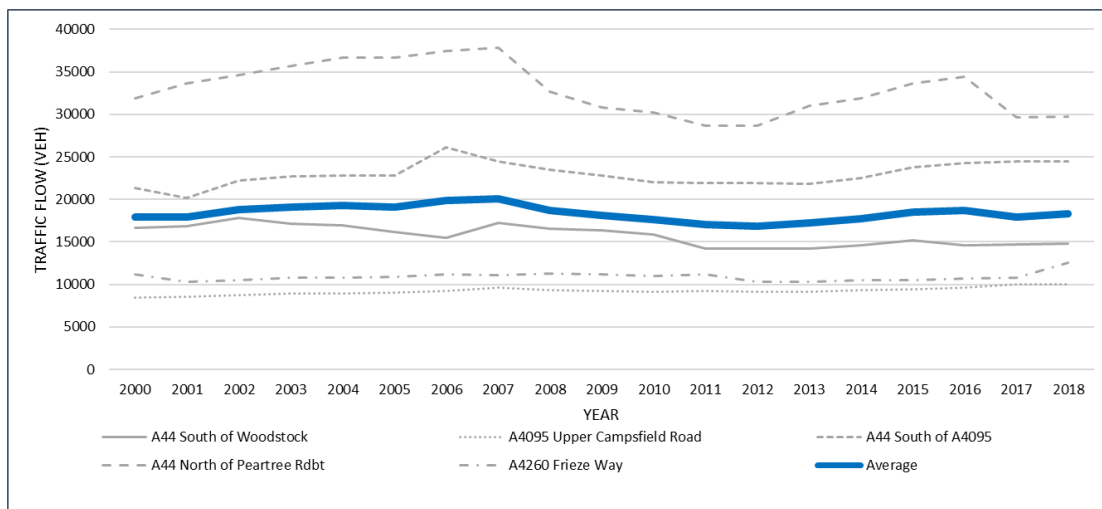
- Different scaling factors were used for base flows, HGVs, employment based committed development trips and residential committed development trips.
- The factors to convert AM Peak and PM Peak surveyed traffic flows to AADT and AAWT traffic flows were calculated from the average ratio of peak hours to 24 hour flows of the 2017/2018 ATC survey data. These factors were then used to identify the likely 24-hour flows along the links which did not have ATC survey data.
- For HGV factors a similar calculation was undertaken using DfT Count Data. The locations and latest available dates of the DfT counts comprised:
  - A44 South of Woodstock (2018)
  - A4095 Upper Campsfield Road (2018)
  - A44 South of A4095 (2018)
  - A44 North of Peartree Roundabout (2018)
  - A4260 Frieze Way (2018)
  - Yarnton Road (2009)
  - Langford Lane (2009)
- Daily factors for employment based committed development flows were calculated using the office land use TRICS output from Appendix J of the Oxford Gateway Transport Assessment.

- 10. Daily factors for residential based committed development flows were calculated using survey data gathered for the site 'WS-03-A-03' from the 'House Privately Owned' residential category from the TRICS database.

**Traffic Growth**

- 11. Typically, growth rates extracted from the industry standard TEMPRO database are referred to when establishing the future baseline traffic flows. However, in this instance it should be noted that data recorded by the Department for Transport along the A44 corridor has shown that traffic flows have remained relatively static for a number of years. This is demonstrated below:

**DfT Traffic Growth (2000-2018)**



- 12. In light of the above, it has been assumed that growth within the study area will be attributed to the traffic flows associated with committed/ allocated developments.

**Assessment Flows**

2028 Year of completion

- 13. The baseline for assessing the proposed development impact in the year 2028 includes the committed developments/ allocations of Oxford Northern Gateway and Begbroke Science Park to represent the anticipated growth on the surrounding highway network.
- 14. The remaining committed developments/ allocations are not included within this baseline as these are taken into account within the cumulative assessment.

## 2031 Cumulative assessment

15. The cumulative assessment takes into account committed developments and allocations up to the year 2031 as this forms the end of the Local Plan period. The allocations taken into account within the 2031 cumulative assessment, comprise:
- Oxford Northern Gateway
  - Begbroke Science Park
  - Allocations within the Cherwell Local Plan 2011-2031 Patrial Review:
    - PR6a - Land East of Oxford Road
    - PR6b - Land West of Oxford Road
    - PR7a - Land South East of Kidlington
    - PR7b - Land at Stratfield Farm
    - PR8 - Land East of the A44
  - Oxford Local Plan Northern Allocations comprising:
    - SP24 – St Drideswide Farm
    - SP28 – Pear Tree Farm
    - SP52 – Oxford University Press Sports Ground, Jordan Hill