

Oxfordshire Transformation Programme Parking Survey

John Radcliffe Hospital and Horton General Hospital

June 2017

Parking Survey- Commissioned by Oxfordshire
Clinical Commissioning Group

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1. Introduction

The purpose of this document is to help inform the decision making process of Oxfordshire Clinical Commissioning Group regarding its Phase One Transformation Proposals and has been commissioned in response to the feedback around parking raised in the public consultation.

The scope of this report is to provide a record and an analysis of the traffic flow around selected John Radcliffe Hospital and the Horton General Hospital car parks and has been commissioned with the support of Oxford University Hospitals NHS Foundation Trust (OUHFT).

This document, along with the qualitative analysis undertaken by Healthwatch, will be referenced within the Phase One Decision Making Business Case (DMBC) that will be received by the CCG board in August 2017.

The content of the report includes an executive summary laying out the key findings, methodology, and final observations.

Actual data recorded for John Radcliffe Hospital can be found in Appendix B.

Actual data recorded for Horton General Hospital can be found in Appendix D.

2. Executive Summary

This report identifies a range of parking issues, on site, at the John Radcliffe Hospital at particular times and days.

Over the five survey days the John Radcliffe Hospital car parks regularly saw queues form outside the car park barriers.

The longest queues occurred between 10am and 12pm across all of the survey days, other than the Wednesday 14th June.

Thursday 15th June saw the most consistent queues, with over 10 cars waiting at eight snapshot times for Car Park 2.

For Car Park 2a, the queues were smaller but still had over five cars waiting at eight times throughout the day.

The longest queue occurred for Car Park 2 on Monday 19th June, where 16 cars were waiting to enter the car park at 11am. By 11:15am, this had reduced to 10 cars.

There were very few parking issues on site at the Horton General Hospital.

The findings from Horton General Hospital show that there are no observed congestion issues when accessing the car park. Only two queues were recorded over the five survey days, and both journeys were completed in less than 30 seconds.

Observations:

In observing length of queues forming on the surrounding roads leading into the sites, it is noted that this may be due to improvements needed to those roads, which is out of the scope of this report.¹

Suggestions:

Based on the output of the analysis, it is suggested that further traffic planning take place in order to review the access to the John Radcliffe site.

This is reflected in the Oxfordshire Transformation Programme; Phase One IIA Report.

1. Full data provided in the appendix

3. Methodology

To obtain an understanding of the parking issues, post Phase One public consultation, video surveys were conducted in June 2017 with cameras set up across each of the car parks at two OUHFT hospital sites; John Radcliffe Hospital and Horton General Hospital.

The data reported was captured at the below dates and times;

- Wednesday 14th June: 14:00-18:00
- Thursday 15th June: 10:00-15:00
- Friday 16th June: 08.00-15.00
- Monday 19th June: 08.00-15.00
- Tuesday 20th June : 07:00 -14:00

The above time period was selected to avoid school half term, Bank Holiday weekends as well as the general election and is a short snapshot of traffic flow during a typical week. In order to capture a true reflection of parking issues 'peak days' have also been selected across the OUHFT sites.

The cameras were positioned to capture the main car parks identified as having close proximity to services included within the Phase One Consultation.²

The cameras captured the area around entry barriers and observed any queues forming on surrounding roads leading into the sites.

Queue data was then collected for a 5 day period at the John Radcliffe and Horton sites. The information collected was as follows;

- Footage recorded of the time taken to access each car park from the point at joining the queue on site, plus queue length (snapshots at 15 minute intervals).
- The footage was post-processed by a reviewer and specialist software in order to generate a report. The report looked at times to access the site (journey time) and how many cars were waiting to enter the car park (queue report) at 15 minute intervals.

The results are provided and discussed in this report.

2. OUHFT Car Park Maps located in the appendix

4. Site 1 - John Radcliffe

4.1 Key Findings

The findings from the survey at the John Radcliffe Hospital site highlight issues with the traffic flow when accessing the on-site car parks.

Over the five survey days, 101 access times were recorded. Of these, 66 were completed in less than five minutes (66%), and 34 lasted more than five minutes but typically less than 10 minutes.

In general, Car Park 2a had the longest access times with 28 (55%) of its journeys completed in less than five minutes, and nine (18%) took over 10 minutes. It also recorded the three highest journey times in excess of 15 minutes.

Car Park 2 saw fewer issues around traffic flow, with 38 (76%) completing in less than 5 minutes.

The longest access time occurred on the Monday 19th June, which lasted 18:19 mins, starting at 9:57am.

The queue report highlights that entry to the site was generally clear for both Car Park 2a and Car Park 2 before 10am on all survey days.

With the exception of Wednesday 14th June, which was clear at all times, the biggest congestion issues occurred between 10am and 12pm across the remainder of the survey days.

Thursday 15th June saw the most consistent queues, with over 10 cars waiting at eight snapshot times for Car Park 2. For Car Park 2a, the queues were smaller but still had over five cars waiting at eight times throughout the day.

The longest length of queue occurred for Car Park 2 on Monday 19th June, where 16 cars were waiting to enter the car park at 11am. By 11:15am, this had reduced to 10 cars.

4.1.1 Access

The access routes captured via the cameras off of Headley Way and Osler Road.

4.2 Journey Time

Site Name: John Radcliffe Hospital

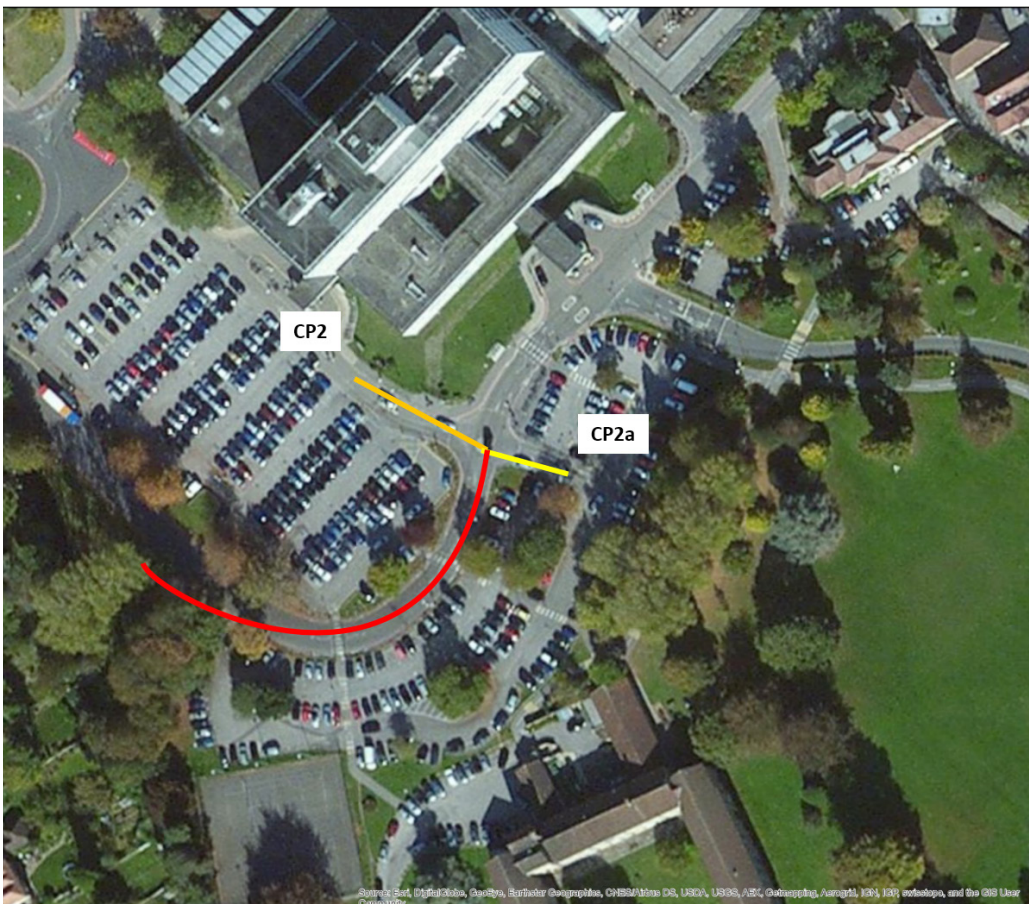
Dates of Survey:

Wednesday 14th June- Friday 16th June 2017

Monday 19th June 2017

Tuesday 20th June 2017

Location Plan: John Radcliffe Hospital Car Parks



Weather Conditions:

Date	Weather
Wednesday 14.06.2017:	Dry
Thursday 15.06.2017:	Dry and Sunny
Friday 16.06.2017:	Dry and Sunny
Monday 19.06.2017:	Dry and Sunny
Tuesday 20.06.2017:	Dry and Sunny

Queue Length Methodology:

The queue length, in vehicles, is reported at fifteen-minute intervals.

The following colour scheme was added to the queue data to show where the queue has occurred and when there is congestion. This is also related to the location plan above.

Green = No Queue

Amber/Yellow = Queue from Car Park to access road

Red = Congestion.

Figure 1. Duration of journey from time queue was joined (John Radcliffe Hospital, Car Park

2)

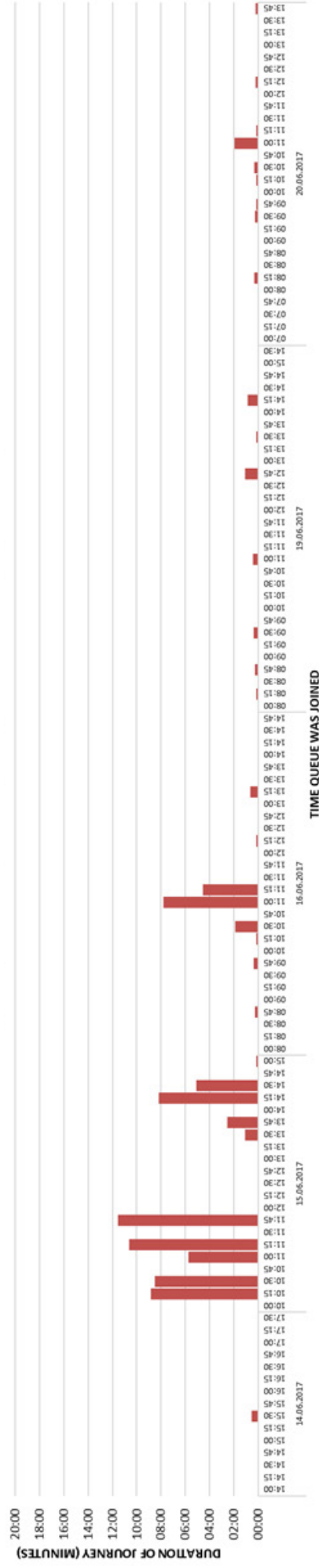
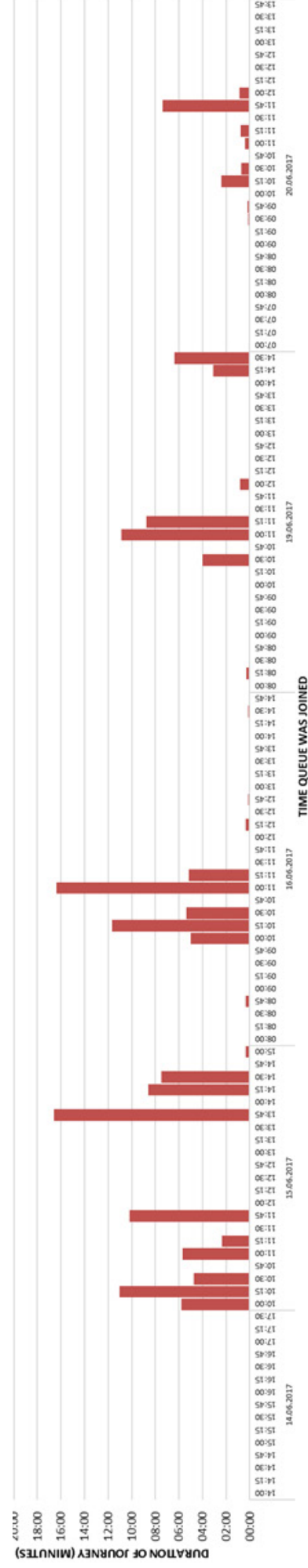


Figure 2. Duration of journey from time queue was joined (John Radcliffe Hospital, Car Park

2a)



4.3 John Radcliffe Hospital Queue Report

Site Name: John Radcliffe Hospital

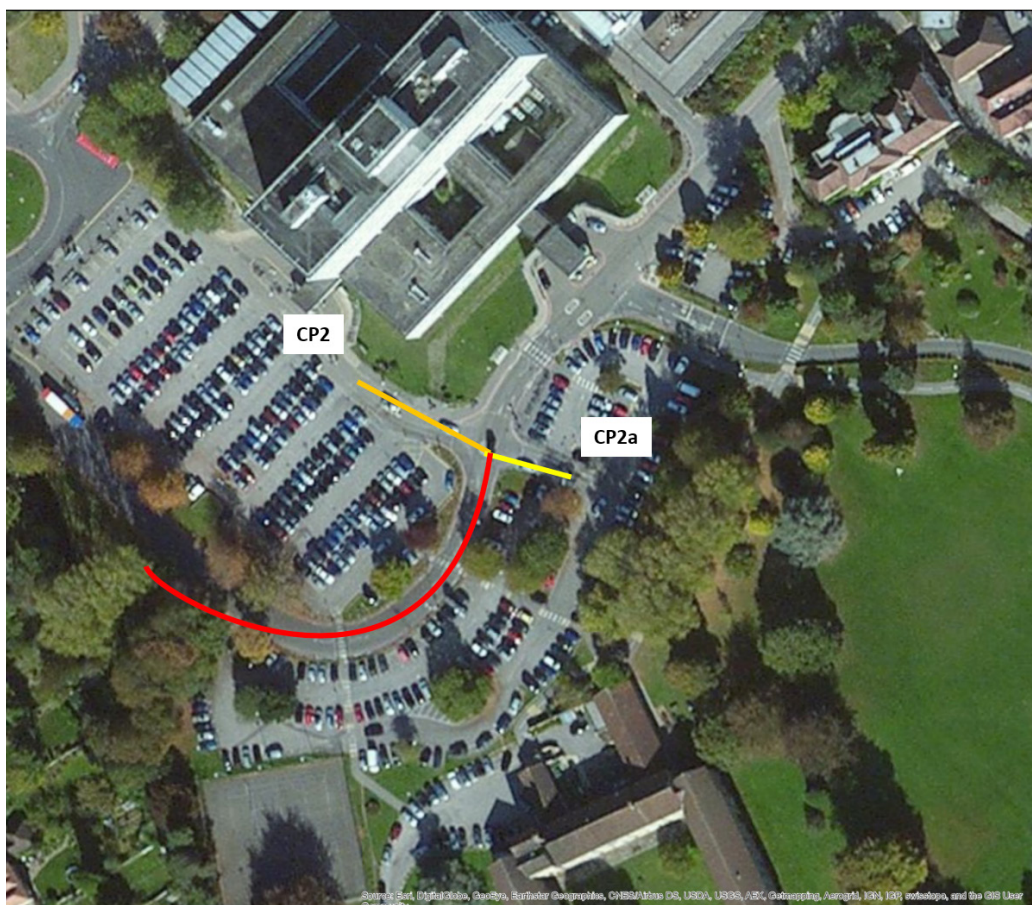
Dates of Survey:

Wednesday 14th June- Friday 16th June 2017

Monday 19th June 2017

Tuesday 20th June 2017

Survey Type: Snapshot Queue Lengths



Weather Conditions:

Wednesday 14.06.2017:	Dry
Thursday 15.06.2017:	Dry and Sunny
Friday 16.06.2017:	Dry and Sunny
Monday 19.06.2017:	Dry and Sunny
Tuesday 20.06.2017:	Dry and Sunny

Queue Length Methodology:

The queue length, in vehicles, is reported at fifteen-minute intervals.

The following colour scheme was added to the queue data to show where the queue has occurred and when there is congestion. This is also related to the location plan above.

Green = No Queue

Amber/Yellow = Queue from Car Park to access road

Red = Congestion.

Snapshot Queue Lengths - John Radcliffe Hospital

Time	Wed 14/06		Thur 15/06		Fri 16/06		Mon 19/06		Tues 19/06	
	Car Park 2	Car Park 2a	Car Park 2	Car Park 2a	Car Park 2	Car Park 2a	Car Park 2	Car Park 2a	Car Park 2	Car Park 2a
	07:00									0
07:15									0	0
07:30									0	0
07:45									1	0
08:00					0	0	0	0	0	0
08:15					0	0	1	2	2	0
08:30					0	0	2	1	1	0
08:45					2	2	1	0	0	0
09:00					0	0	0	0	0	0
09:15					0	0	1	0	0	0
09:30					0	0	1	0	1	1
09:45					2	1	0	0	1	2
10:00			1	7	0	4	0	3	0	1
10:15			3	8	1	2	0	4	2	4
10:30			15	2	3	3	0	2	9	3
10:45			15	5	11	4	0	3	2	3
11:00			5	4	4	7	2	5	16	3
11:15			14	2	7	2	0	4	10	4
11:30			15	13	0	0	0	0	1	3
11:45			11	11	0	0	0	0	0	1
12:00			0	0	0	0	0	1	0	1
12:15			0	0	1	1	0	0	1	0
12:30			0	0	1	3	0	0	0	0
12:45			0	0	0	1	2	0	0	0
13:00			0	0	0	0	0	0	0	0
13:15			2	3	1	0	1	0	0	0
13:30			1	0	0	0	1	0	0	0
13:45			3	6	0	0	0	0	2	0
14:00	0	0	11	10	0	0	1	2		
14:15	0	0	14	9	0	0	1	4		
14:30	0	0	11	10	0	1	0	2		
14:45	0	0	3	2	0	0	0	0		
15:00	0	0	1	2						
15:15	0	0								
15:30	1	0								
15:45	0	0								
16:00	0	0								
16:15	0	0								
16:30	0	0								
16:45	0	0								
17:00	0	0								
17:15	0	0								
17:30	0	0								
17:45	0	0								

Key:
Green = No Queue
Amber/Yellow = Queue from Car Park to access road
Red = Congestion.

5. Site 2 - Horton General

5.1 Key Findings

The findings from Horton General Hospital show that there was very little observed congestion when accessing the car parks.

Only two queues were recorded over the five survey days, and both journeys were completed in less than 30 seconds.

The two minor queues are picked up on the queue length snapshot table, but it is clear that there is easy access to the car park at all times.

5.1.1 Access

The access routes captured via the cameras were off of Hightown Road.

There were two access points available for the same on site car park. These access points have been suffixed with a letter and will be identified as car parks 2 and 2a.

5.2 Journey Time

Site Name: Horton General Hospital

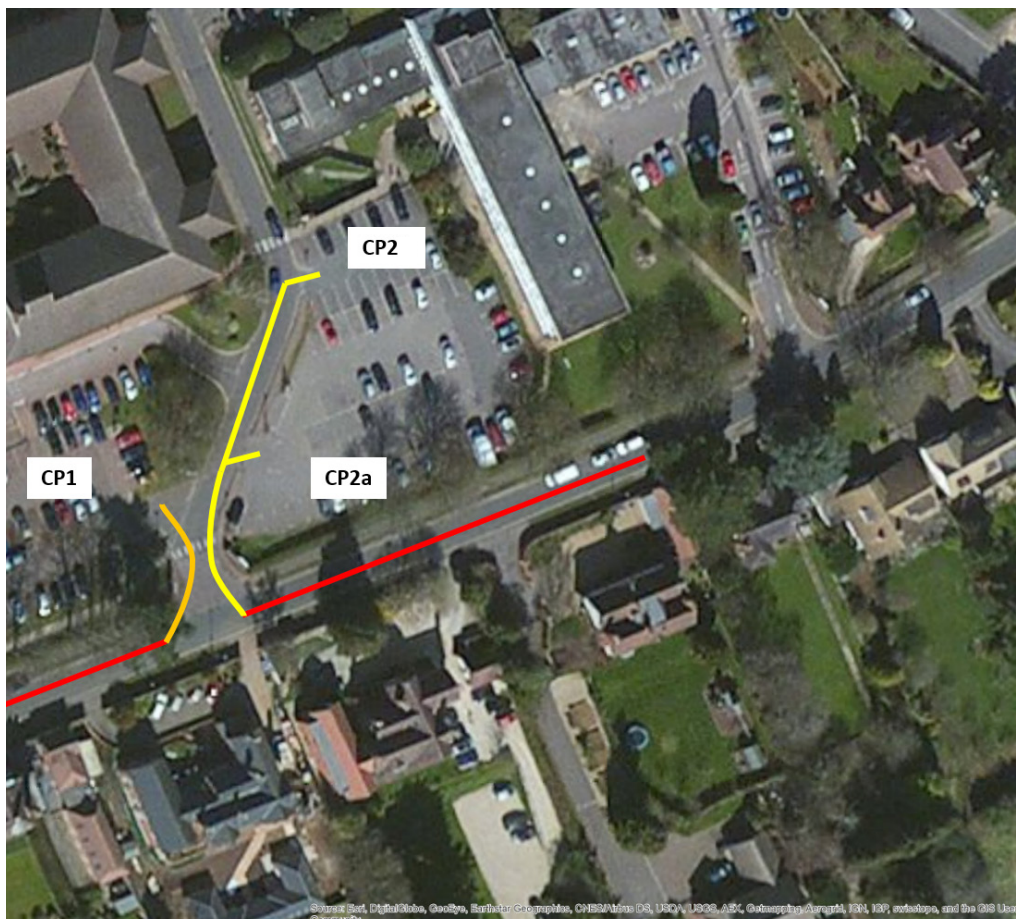
Dates of Survey:

Wednesday 14th June- Friday 16th June 2017

Monday 19th June 2017

Tuesday 20th June 2017

Location Plan: Horton General Hospital Car Parks



Weather Conditions:

Wednesday 14.06.2017:	Dry
Thursday 15.06.2017:	Dry and Sunny
Friday 16.06.2017:	Dry and Sunny
Monday 19.06.2017:	Dry and Sunny
Tuesday 20.06.2017:	Dry and Sunny

Queue Length Methodology:

The queue length, in vehicles, is reported at fifteen-minute intervals.

The following colour scheme was added to the queue data to show where the queue has occurred and when there is congestion. This is also related to the location plan above.

Green = No Queue

Amber/Yellow = Queue from Car Park to access road

Red = Congestion.

5.3 Horton General Hospital Queue Report

Site Name: John Radcliffe Hospital

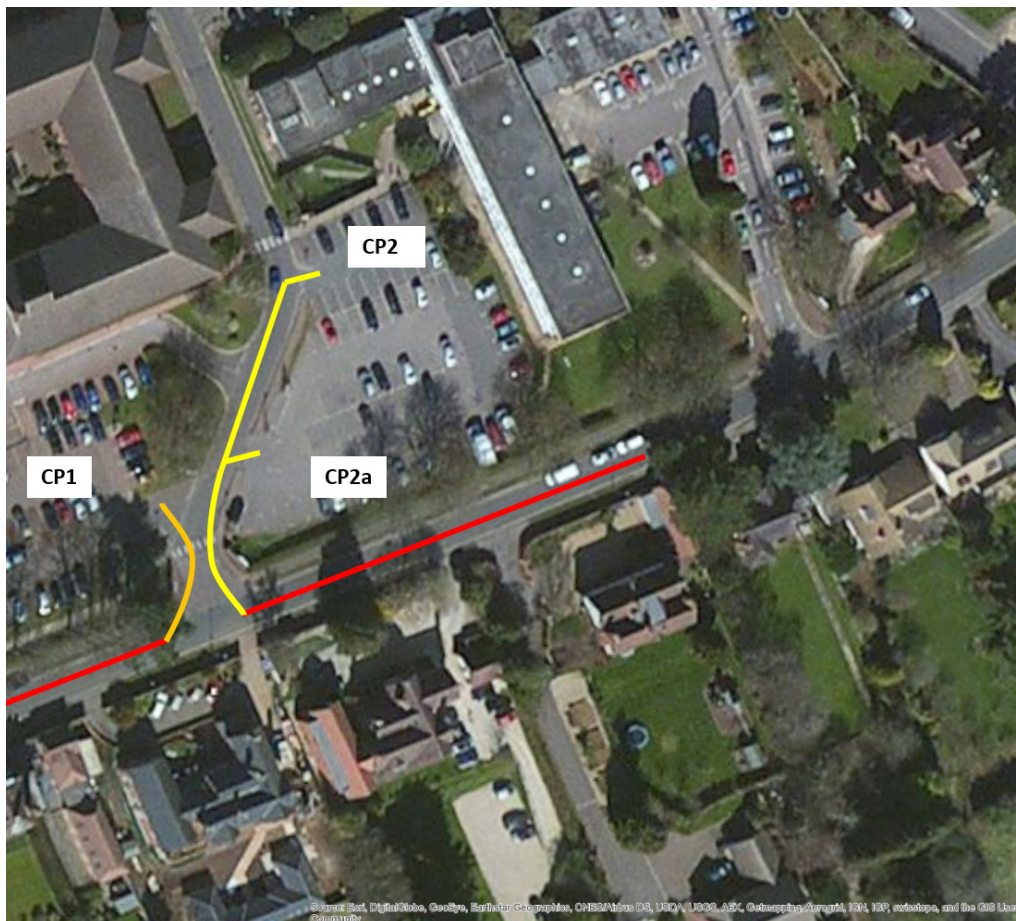
Dates of Survey:

Wednesday 14th June- Friday 16th June 2017

Monday 19th June 2017

Tuesday 20th June 2017

Survey Type: Snapshot Queue Lengths



Weather Conditions:

Wednesday 14.06.2017:	Dry
Thursday 15.06.2017:	Dry and Sunny
Friday 16.06.2017:	Dry and Sunny
Monday 19.06.2017:	Dry and Sunny
Tuesday 20.06.2017:	Dry and Sunny

Queue Length Methodology:

The queue length, in vehicles, is reported at fifteen-minute intervals.

The following colour scheme was added to the queue data to show where the queue has occurred and when there is congestion. This is also related to the location plan above.

Green = No Queue

Amber/Yellow = Queue from Car Park to access road

Red = Congestion.

Snapshot Queue Lengths - Horton General Hospital

Time	Wed 14/06			Thur 15/06			Fri 16/06			Mon 19/06			Tues 19/06		
	Car Park 1	Car Park 2	Car Park 2a	Car Park 1	Car Park 2	Car Park 2a	Car Park 1	Car Park 2	Car Park 2a	Car Park 1	Car Park 2	Car Park 2a	Car Park 1	Car Park 2	Car Park 2a
07:00													0	0	0
07:15													0	0	0
07:30													0	0	0
07:45													0	0	0
08:00							0	0	0	0	0	0	0	0	0
08:15							0	0	0	0	0	0	0	0	0
08:30							0	0	0	0	0	0	0	0	0
08:45							0	0	0	0	0	0	0	0	0
09:00							0	0	0	0	0	0	0	0	0
09:15							0	0	0	0	0	0	0	0	0
09:30							0	0	0	0	0	0	0	0	0
09:45							0	0	0	0	0	0	0	0	0
10:00				0	0	0	0	0	0	0	0	0	0	0	0
10:15				0	0	0	0	0	0	0	0	0	0	0	0
10:30				0	0	0	0	0	0	0	0	0	0	0	0
10:45				0	0	0	0	0	0	0	0	0	0	0	0
11:00				0	0	0	0	0	0	0	0	0	0	0	0
11:15				0	0	0	0	0	0	1	0	0	0	0	0
11:30				0	0	0	0	0	0	0	0	0	0	0	0
11:45				0	0	0	0	0	0	0	0	0	0	0	0
12:00				0	0	0	0	0	0	0	0	0	0	0	0
12:15				0	0	0	0	0	0	0	0	0	0	0	0
12:30				0	0	0	0	0	0	0	0	0	0	0	0
12:45				0	0	0	0	0	0	0	0	0	0	0	0
13:00				0	0	0	0	0	0	0	0	0	0	0	0
13:15				0	0	0	0	0	0	0	0	0	0	0	0
13:30				0	0	0	0	0	0	0	0	0	0	0	0
13:45				0	0	0	0	0	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0	0	0	0	0	0			
14:15	0	0	0	0	0	0	0	0	0	0	0	0			
14:30	0	0	0	0	0	0	0	0	0	0	0	0			
14:45	0	0	1	0	0	0	0	0	0	0	0	0			
15:00	0	0	0												
15:15	0	0	0												
15:30	0	0	0												
15:45	0	0	0												
16:00	0	0	0												
16:15	0	0	0												
16:30	0	0	0												
16:45	0	0	0												
17:00	0	0	0												
17:15	0	0	0												
17:30	0	0	0												

Key:
Green = No Queue
Amber/Yellow = Queue from Car Park to access road
Red = Congestion.

6. Appendix

Appendix A: John Radcliffe Hospital Car Park Map

John Radcliffe Hospital site map



Appendix B: John Radcliffe Hospital Journey Time Data

Dates of Survey: 14.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2	15:29:55	15:30:26	00:00:31

Dates of Survey: 15.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2a	09:59:02	10:04:50	00:05:48
2	Car Park 2	09:59:46	09:59:56	00:00:10
3	Car Park 2	10:13:40	10:22:29	00:08:49
4	Car Park 2a	10:14:46	10:25:48	00:11:02
5	Car Park 2a	10:28:48	10:33:32	00:04:44
6	Car Park 2	10:29:56	10:38:25	00:08:29
7	Car Park 2	10:42:00	10:51:33	00:09:33
8	Car Park 2a	10:42:58	10:47:36	00:04:38
9	Car Park 2	10:57:00	11:02:45	00:05:45
10	Car Park 2a	10:59:15	11:04:57	00:05:42
11	Car Park 2	11:13:02	11:23:40	00:10:38
12	Car Park 2a	11:14:22	11:16:44	00:02:22
13	Car Park 2	11:28:59	11:43:37	00:14:38
14	Car Park 2a	11:29:49	11:38:13	00:08:24
15	Car Park 2	11:42:39	11:54:12	00:11:33
16	Car Park 2a	11:43:00	11:53:12	00:10:12
17	Car Park 2a	13:14:11	13:16:58	00:02:47
18	Car Park 2	13:14:55	13:15:19	00:00:24
19	Car Park 2	13:30:02	13:31:07	00:01:05
20	Car Park 2a	13:43:15	13:59:50	00:16:35
21	Car Park 2	13:45:04	13:47:35	00:02:31
22	Car Park 2a	13:57:55	14:03:29	00:05:34
23	Car Park 2	13:58:59	14:04:30	00:05:31
24	Car Park 2a	14:15:13	14:23:48	00:08:35
25	Car Park 2	14:15:20	14:23:32	00:08:12
26	Car Park 2a	14:28:56	14:36:24	00:07:28
27	Car Park 2	14:30:42	14:35:47	00:05:05
28	Car Park 2a	14:42:02	14:45:57	00:03:55
29	Car Park 2	14:45:08	14:47:28	00:02:20
30	Car Park 2	14:59:56	15:00:06	00:00:10
31	Car Park 2a	14:59:58	15:00:19	00:00:21

Dates of Survey: 16.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2a	08:44:54	08:45:15	00:00:21
2	Car Park 2	08:44:56	08:45:12	00:00:16
3	Car Park 2	09:45:00	09:45:22	00:00:22
4	Car Park 2a	09:59:28	10:04:28	00:05:00
5	Car Park 2a	10:09:03	10:20:43	00:11:40
6	Car Park 2	10:14:58	10:15:08	00:00:10
7	Car Park 2	10:28:58	10:30:50	00:01:52
8	Car Park 2a	10:29:23	10:34:45	00:05:22
9	Car Park 2a	10:44:34	10:47:46	00:03:12
10	Car Park 2	10:45:01	10:51:12	00:06:11
11	Car Park 2a	10:59:15	11:15:39	00:16:24
12	Car Park 2	10:59:58	11:07:47	00:07:49
13	Car Park 2a	11:13:05	11:18:16	00:05:11
14	Car Park 2	11:14:09	11:18:40	00:04:31
15	Car Park 2a	12:14:53	12:15:14	00:00:21
16	Car Park 2	12:14:58	12:15:08	00:00:10
17	Car Park 2	12:29:48	12:29:58	00:00:10
18	Car Park 2a	12:29:53	12:30:31	00:00:38
19	Car Park 2a	12:44:51	12:45:00	00:00:09
20	Car Park 2	13:14:55	13:15:34	00:00:39
21	Car Park 2a	14:29:52	14:30:01	00:00:09

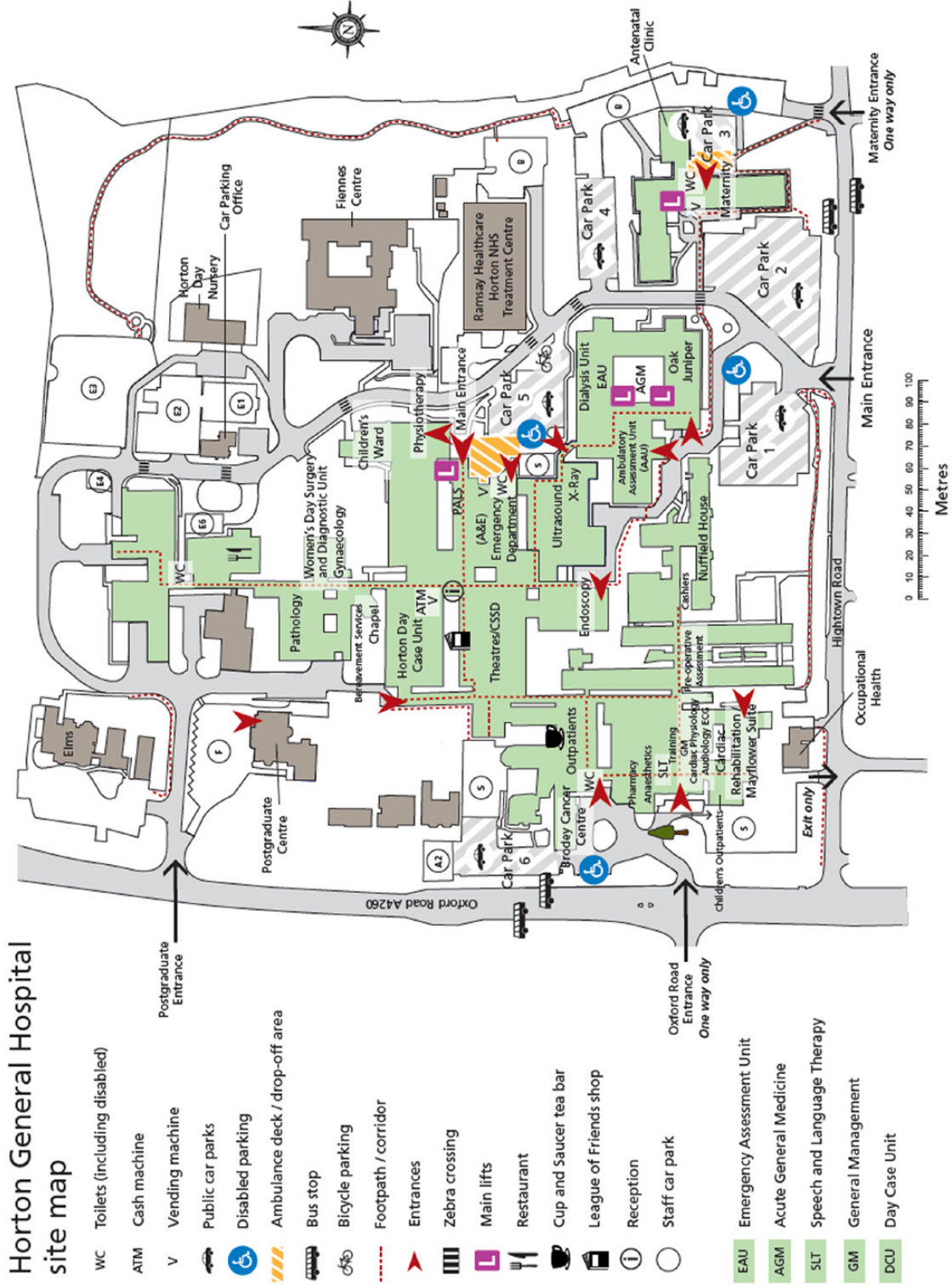
Dates of Survey: 19.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2	08:14:58	08:15:07	00:00:09
2	Car Park 2a	08:15:04	08:15:22	00:00:18
3	Car Park 2	08:30:01	08:30:27	00:00:26
4	Car Park 2a	08:30:03	08:30:14	00:00:11
5	Car Park 2	08:44:51	08:45:07	00:00:16
6	Car Park 2	09:15:00	09:15:11	00:00:11
7	Car Park 2	09:29:58	09:30:20	00:00:22
8	Car Park 2a	09:57:01	10:15:20	00:18:19
9	Car Park 2a	10:07:02	10:18:21	00:11:19
10	Car Park 2a	10:29:34	10:33:33	00:03:59
11	Car Park 2a	10:42:00	10:50:28	00:08:28
12	Car Park 2a	10:59:42	11:10:34	00:10:52
13	Car Park 2	10:59:56	11:00:22	00:00:26
14	Car Park 2a	11:13:44	11:22:30	00:08:46
15	Car Park 2a	11:59:29	12:00:19	00:00:50
16	Car Park 2	12:44:43	12:45:47	00:01:04
17	Car Park 2	13:14:50	13:15:10	00:00:20
18	Car Park 2	13:30:01	13:30:11	00:00:10
19	Car Park 2a	13:58:45	14:11:22	00:12:37
20	Car Park 2	13:59:58	14:00:09	00:00:11
21	Car Park 2	14:14:13	14:15:04	00:00:51
22	Car Park 2a	14:14:51	14:17:58	00:03:07
23	Car Park 2a	14:29:07	14:35:30	00:06:23

Dates of Survey: 20.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2a	06:59:45	07:00:04	00:00:19
2	Car Park 2	07:44:53	07:45:02	00:00:09
3	Car Park 2	08:15:08	08:15:25	00:00:17
4	Car Park 2	08:29:53	08:30:07	00:00:14
5	Car Park 2	09:29:52	09:30:08	00:00:16
6	Car Park 2a	09:30:00	09:30:08	00:00:08
7	Car Park 2	09:44:57	09:45:05	00:00:08
8	Car Park 2a	09:45:19	09:45:30	00:00:11
9	Car Park 2a	09:57:30	10:04:12	00:06:42
10	Car Park 2	10:16:00	10:16:09	00:00:09
11	Car Park 2a	10:17:32	10:19:56	00:02:24
12	Car Park 2a	10:32:39	10:33:21	00:00:42
13	Car Park 2	10:37:23	10:37:40	00:00:17
14	Car Park 2	10:47:39	10:47:48	00:00:09
15	Car Park 2a	10:48:26	10:52:10	00:03:44
16	Car Park 2a	11:02:53	11:03:17	00:00:24
17	Car Park 2	11:05:56	11:07:53	00:01:57
18	Car Park 2a	11:17:28	11:18:14	00:00:46
19	Car Park 2	11:19:19	11:19:28	00:00:09
20	Car Park 2	11:30:03	11:30:14	00:00:11
21	Car Park 2a	11:32:44	11:32:58	00:00:14
22	Car Park 2a	11:44:57	11:52:21	00:07:24
23	Car Park 2a	12:00:00	12:00:51	00:00:51
24	Car Park 2	12:15:01	12:15:14	00:00:13
25	Car Park 2	13:45:07	13:45:20	00:00:13

Appendix C: Horton General Hospital Car Park Map



Appendix D: Horton General Hospital Journey Time Data

Dates of Survey: 14.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 2a	14:45:00	14:45:09	00:00:09

Dates of Survey: 15.06.2017

No Queues Recorded

Dates of Survey: 16.06.2017

No Queues Recorded

Dates of Survey: 19.06.2017

ID	Car park	Time queue was joined	Time Car Park was accessed	Duration of Journey
1	Car Park 1	11:15:00	11:15:21	00:00:21

Dates of Survey: 20.06.2017

No Queues Recorded

