



Appendix 10.6

TRAFFIC DATA AND PREDICTIONS

Appendix 10.6

Traffic Data and Basic Noise Level Calculations

Table 1: Construction Traffic Data and Basic Noise Level Calculations

Link	Direction	Link Name	Scenario 2: 2028/2033 Reference Case (Sandy Lane Closed)		Scenario 5: 2028 Reference Case (Sandy Lane Closed) + 2028 Construction traffic		Speed (kmph)	BNL Scenario 2: 2028 Reference Case (Sandy Lane Closed)	BNL Scenario 5: 2028 Reference Case + 2028 Construction traffic	Difference Scenario 5 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
A	Eastbound	A40 West Eastbound	18,354	9.5%	18,460	9.7%	81	77.2	77.2	0.0
A	Westbound	A40 West Westbound	18,354	6.9%	18,461	7.0%	81			
C	Eastbound	A40 East Eastbound	19,781	7.7%	19,888	7.8%	81	77.4	77.5	0.1
C	Westbound	A40 East Westbound	19,744	7.8%	19,850	7.9%	81			
E	Eastbound	A40 East Eastbound	17,214	8.4%	17,320	8.5%	81	76.8	76.9	0.1
E	Westbound	A40 East Westbound	17,341	7.1%	17,448	7.3%	81			
F	Northbound	Lower Road Northbound	4,228	8.2%	4,228	8.2%	97	72.6	72.6	0.0
F	Southbound	Lower Road Southbound	5,548	6.4%	5,548	6.4%	97			
G	Northbound	B4449 Northbound	9,193	4.8%	9,193	4.8%	81	73.4	73.4	0.0
G	Southbound	B4449 Southbound	8,439	5.2%	8,439	5.2%	81			
J	Eastbound	A40 East Eastbound	15,839	9.0%	15,870	9.2%	81	76.4	76.4	0.0
J	Westbound	A40 East Westbound	13,860	8.7%	13,890	8.9%	81			
L	Northbound	Yarnton South Northbound	3,142	1.4%	3,217	1.3%	50	63.8	63.9	0.1
L	Southbound	Yarnton South Southbound	1,873	1.1%	1,949	1.1%	50			
N	Northbound	Yarnton North Northbound	1,738	2.4%	1,814	2.3%	61	63.5	63.7	0.2
N	Southbound	Yarnton North Southbound	1,683	1.2%	1,759	1.2%	61			
P	Northbound	Yarnton Road North Northbound	3,527	1.2%	3,602	1.2%	50	65.1	65.2	0.1
P	Southbound	Yarnton Road North Southbound	3,503	0.6%	3,579	0.6%	50			
Q	Eastbound	A40 East Eastbound	13,610	10.1%	13,641	10.3%	81	76.0	76.1	0.1
Q	Westbound	A40 East Westbound	13,121	8.8%	13,152	9.1%	81			
R	Northbound	A34 South Northbound	49,247	4.5%	49,425	4.5%	97	82.2	82.2	0.0
R	Southbound	A34 South Southbound	51,000	4.7%	51,178	4.7%	97			
Z	Northbound	A4165 Banbury Road North Northbound	6,173	6.8%	6,193	6.7%	50	69.8	69.8	0.0
Z	Southbound	A4165 Banbury Road North Southbound	7,636	5.7%	7,656	5.7%	50			
AB	Northbound	A4165 Banbury Road North Northbound	6,098	6.8%	6,118	6.8%	50	69.8	69.8	0.0
AB	Southbound	A4165 Banbury Road North Southbound	7,786	5.6%	7,806	5.5%	50			
AG	Northbound	A4165 Banbury Road North Northbound	6,525	6.8%	6,545	6.7%	50	70.1	70.1	0.0
AG	Southbound	A4165 Banbury Road North Southbound	8,388	5.4%	8,409	5.3%	50			
AJ	Northbound	A4165 Banbury Road North Northbound	6,881	6.3%	6,901	6.3%	50	70.1	70.1	0.0
AJ	Southbound	A4165 Banbury Road North Southbound	8,458	5.3%	8,478	5.2%	50			
AK	Northbound	A4165 Banbury Road North Northbound	7,166	6.1%	7,187	6.1%	50	70.1	70.1	0.0
AK	Southbound	A4165 Banbury Road North Southbound	8,067	5.6%	8,087	5.5%	50			
AO	Eastbound	A40 West Eastbound	17,401	4.8%	17,473	4.9%	50	72.8	72.9	0.1
AO	Westbound	A40 West Westbound	12,238	5.8%	12,310	6.0%	50			
AP	Northbound	Banbury Road North Northbound	9,877	5.4%	9,897	5.4%	50	70.9	70.9	0.0
AP	Southbound	Banbury Road North Southbound	8,629	5.6%	8,650	5.5%	50			
AQ	Eastbound	A40 East Eastbound	22,658	4.3%	22,730	4.5%	78	76.7	76.8	0.1
AQ	Westbound	A40 East Westbound	18,827	5.0%	18,899	5.1%	78			
AS	Northbound	A4165 Banbury Road North Northbound	9,448	5.6%	9,448	5.6%	50	70.7	70.7	0.0
AS	Southbound	A4165 Banbury Road North Southbound	8,109	5.9%	8,109	5.9%	50			

Link	Direction	Link Name	Scenario 2: 2028/2033 Reference Case (Sandy Lane Closed)		Scenario 5: 2028 Reference Case (Sandy Lane Closed) + 2028 Construction traffic		Speed (kmph)	BNL Scenario 2: 2028 Reference Case (Sandy Lane Closed)	BNL Scenario 5: 2028 Reference Case + 2028 Construction traffic	Difference Scenario 5 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
AT	Eastbound	Five Mile Drive Eastbound	51	8.7%	51	8.7%	32	56.0	56.0	0.0
AT	Westbound	Five Mile Drive Westbound	953	2.5%	953	2.5%	32			
AY	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,714	6.1%	50	70.7	70.7	0.0
AY	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	8,333	6.0%	50			
BB	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,714	6.1%	64	71.9	71.9	0.0
BB	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	8,333	6.0%	64			
BE	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,714	6.1%	64	71.9	71.9	0.0
BE	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	8,333	6.0%	64			
BF	Eastbound	Water Eaton Park & Ride Eastbound	2,329	10.3%	2,329	10.3%	32	65.2	65.2	0.0
BF	Westbound	Water Eaton Park & Ride Westbound	1,720	16.2%	1,720	16.2%	32			
BG	Northbound	A34 North Northbound	39,550	5.2%	39,622	5.3%	97	81.4	81.4	0.0
BG	Southbound	A34 North Southbound	39,809	5.6%	39,880	5.6%	97			
BH	Northbound	A4260 Frieze Way Northbound	9,547	2.1%	9,576	2.1%	97	73.6	73.6	0.0
BH	Southbound	A4260 Frieze Way Southbound	4,985	4.5%	5,014	4.5%	97			
BI	Northbound	Oxford Road North Northbound	9,360	6.2%	9,360	6.2%	64	72.3	72.3	0.0
BI	Southbound	Oxford Road North Southbound	9,368	5.3%	9,368	5.3%	64			
BP	Northbound	A4260 Oxford Road North Northbound	9,448	5.6%	9,477	5.6%	64	72.1	72.2	0.1
BP	Southbound	A4260 Oxford Road North Southbound	8,803	6.1%	8,832	6.0%	64			
BR	Northbound	A4260 Oxford Road North Northbound	10,430	4.8%	10,459	4.8%	50	70.8	70.9	0.1
BR	Southbound	A4260 Oxford Road North Southbound	8,231	5.9%	8,260	5.9%	50			
BT	Northbound	A4260 Oxford Road North Northbound	10,024	5.0%	10,053	5.0%	50	70.8	70.8	0.0
BT	Southbound	A4260 Oxford Road North Southbound	8,080	6.0%	8,109	6.0%	50			
BV	Northbound	A4260 Oxford Road North Northbound	10,020	5.0%	10,049	4.9%	50	70.8	70.8	0.0
BV	Southbound	A4260 Oxford Road North Southbound	8,082	6.0%	8,111	6.0%	50			
BX	Eastbound	Yarton Road North Eastbound	2,847	3.4%	2,847	3.4%	50	64.5	64.5	0.0
BX	Westbound	Yarton Road North Westbound	2,774	0.3%	2,774	0.3%	50			
BY	Northbound	A4260 Oxford Road North Northbound	10,283	4.2%	10,312	4.2%	50	70.6	70.6	0.0
BY	Southbound	A4260 Oxford Road North Southbound	8,248	4.7%	8,277	4.7%	50			
CA	Northbound	A4260 Oxford Road North Northbound	9,830	4.5%	9,830	4.5%	50	70.4	70.4	0.0
CA	Southbound	A4260 Oxford Road North Southbound	7,807	4.8%	7,807	4.8%	50			
CD	Northbound	A4260 Banbury Road North Northbound	9,504	4.2%	9,504	4.2%	50	70.2	70.2	0.0
CD	Southbound	A4260 Banbury Road North Southbound	7,138	5.3%	7,138	5.3%	50			
CE	Eastbound	Benmead Road Eastbound	55	0.0%	55	0.0%	50	49.4	49.4	0.0
CE	Westbound	Benmead Road Westbound	106	4.1%	106	4.1%	50			
CF	Northbound	A4260 Banbury North Northbound	9,517	4.2%	9,517	4.2%	50	70.2	70.2	0.0
CF	Southbound	A4260 Banbury North Southbound	7,096	5.3%	7,096	5.3%	50			
CH	Northbound	A4260 Banbury Road North Northbound	10,111	3.9%	10,111	3.9%	78	73.0	73.0	0.0
CH	Southbound	A4260 Banbury Road North Southbound	7,859	4.8%	7,859	4.8%	78			
CL	Northbound	The Blvd Northbound	5,345	3.2%	5,345	3.2%	50	67.5	67.5	0.0
CL	Southbound	The Blvd Southbound	4,409	4.1%	4,409	4.1%	50			
CO	Northbound	A4260 Banbury Road North Northbound	5,958	4.1%	5,958	4.1%	75	70.9	70.9	0.0
CO	Southbound	A4260 Banbury Road North Southbound	5,866	4.6%	5,866	4.6%	75			

Link	Direction	Link Name	Scenario 2: 2028/2033 Reference Case (Sandy Lane Closed)		Scenario 5: 2028 Reference Case (Sandy Lane Closed) + 2028 Construction traffic		Speed (kmph)	BNL Scenario 2: 2028 Reference Case (Sandy Lane Closed)	BNL Scenario 5: 2028 Reference Case + 2028 Construction traffic	Difference Scenario 5 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
CQ	Northbound	A4260 Banbury Road North Northbound	6,240	4.2%	6,240	4.2%	78	71.4	71.4	0.0
CQ	Southbound	A4260 Banbury Road North Southbound	5,994	5.3%	5,994	5.3%	78			
CR	Northbound	A4260 Banbury Road North Northbound	9,245	4.8%	9,357	4.7%	73	72.9	73.0	+0.1
CR	Southbound	A4260 Banbury Road North Southbound	9,741	5.1%	9,852	5.0%	73			
CS	Eastbound	A4095 Upper Campsfield Road Eastbound	3,671	4.9%	3,782	4.7%	81	70.0	70.1	+0.1
CS	Westbound	A4095 Upper Campsfield Road Westbound	4,604	4.1%	4,716	4.0%	81			
CU	Eastbound	A4095 Upper Campsfield South Eastbound	5,492	4.5%	5,603	4.4%	81	71.7	71.8	+0.1
CU	Westbound	A4095 Upper Campsfield South Westbound	7,572	2.5%	7,684	2.5%	81			
CV	Northbound	A44 Oxford Road North Northbound	7,108	4.5%	7,327	5.2%	81	72.7	73	+0.3
CV	Southbound	A44 Oxford Road North Southbound	8,595	4.0%	8,813	4.6%	81			
CW	Eastbound	A4095 Grove Road Eastbound	7,582	3.7%	7,952	5.9%	50	69.8	70.6	+0.8
CW	Westbound	A4095 Grove Road Westbound	8,205	4.4%	8,575	6.3%	50			
CX	Northbound	A44 Woodstock Road North Northbound	11,820	3.9%	12,335	4.2%	97	76.2	76.4	+0.2
CX	Southbound	A44 Woodstock Road North Southbound	14,586	2.5%	15,101	2.8%	97			
CY	Northbound	A44 Woodstock Road South Northbound	12,443	2.9%	12,959	3.2%	80	74.7	74.9	+0.2
CY	Southbound	A44 Woodstock Road South Southbound	15,532	2.2%	15,789	2.3%	80			
CZ	Eastbound	Spring Hill Road Eastbound	827	0.0%	827	0.0%	50	57.3	57.3	0.0
CZ	Westbound	Spring Hill Road Westbound	432	0.0%	432	0.0%	50			
DA	Northbound	A44 Woodstock Road North Northbound	12,194	2.9%	12,721	3.8%	80	74.7	75.0	+0.3
DA	Southbound	A44 Woodstock Road North Southbound	15,609	2.1%	15,927	2.7%	80			
DD	Northbound	A44 Woodstock Road South Northbound	12,266	3.1%	12,794	4.0%	80	74.8	75.0	+0.2
DD	Southbound	A44 Woodstock Road South Southbound	15,665	2.3%	15,984	2.8%	80			
DF	Northbound	Rutten Lane Northbound	1,816	1.4%	1,816	1.4%	50	62.9	62.9	0.0
DF	Southbound	Rutten Lane Southbound	1,858	3.3%	1,858	3.3%	50			
DH	Northbound	A44 Woodstock Road North Northbound	12,531	3.4%	13,059	4.2%	80	74.8	75.2	+0.4
DH	Southbound	A44 Woodstock Road North Southbound	15,687	2.3%	16,215	2.9%	80			
DJ	Northbound	A44 Woodstock Road South Northbound	12,523	3.4%	13,050	4.2%	80	74.8	75.2	+0.4
DJ	Southbound	A44 Woodstock Road South Southbound	15,694	2.3%	16,221	2.9%	80			
DK	Northbound	Cassington Road Northbound	2,652	1.7%	2,652	1.7%	50	64.0	64.0	0.0
DK	Southbound	Cassington Road Southbound	2,422	1.7%	2,422	1.7%	50			
DN	Northbound	A44 Woodstock Road South Northbound	14,040	2.8%	14,492	3.6%	80	75.2	75.5	+0.3
DN	Southbound	A44 Woodstock Road South Southbound	17,165	1.9%	17,617	2.6%	80			
DO	Northbound	A44 South Northbound	19,050	2.9%	19,473	3.4%	80	76.1	76.3	+0.2
DO	Southbound	A44 South Southbound	18,439	2.8%	18,862	3.4%	80			
DP	Northbound	A44 North Northbound	19,936	4.1%	20,111	4.4%	80	76.5	76.6	+0.1
DP	Southbound	A44 North Southbound	19,407	3.4%	19,582	3.7%	80			
DQ	Eastbound	Park & Ride Eastbound	1,142	6.3%	1,142	6.3%	50	62.8	62.8	0.0
DQ	Westbound	Park & Ride Westbound	1,801	4.6%	1,801	4.6%	50			
DR	Northbound	A44 South Northbound	19,593	4.6%	19,767	4.9%	50	73.7	73.9	+0.2
DR	Southbound	A44 South Southbound	19,602	3.7%	19,776	4.0%	50			
DW	Eastbound	A40 Northern By Pass Road Eastbound	11,933	11.3%	12,005	11.5%	50	72.5	72.6	+0.1
DW	Westbound	A40 Northern By Pass Road Westbound	8,737	8.3%	8,809	8.6%	50			

Table 2 Operational Traffic Data and Basic Noise Level Calculations – Scenario 3 (2033 Do Something OUD + Committed) vs Scenario 2 (2033 Reference Case (Sandy Lane closed))

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane Closed)		Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane Closed)	BNL Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)	Difference Scenario 3 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
A	Eastbound	A40 West Eastbound	18,354	9.5%	18,894	9.3%	81	77.2	77.2	0.0
A	Westbound	A40 West Westbound	18,354	6.9%	18,680	6.8%	81			
C	Eastbound	A40 East Eastbound	19,781	7.7%	19,942	7.6%	81	77.4	77.4	0.0
C	Westbound	A40 East Westbound	19,744	7.8%	19,908	7.7%	81			
E	Eastbound	A40 East Eastbound	17,214	8.4%	17,677	8.2%	81	76.8	76.9	+0.1
E	Westbound	A40 East Westbound	17,341	7.1%	17,667	7.0%	81			
F	Northbound	Lower Road Northbound	4,228	8.2%	3,889	8.7%	97	72.6	72.4	-0.2
F	Southbound	Lower Road Southbound	5,548	6.4%	5,260	6.8%	97			
G	Northbound	B4449 Northbound	9,193	4.8%	8,879	4.9%	81	73.4	73.3	-0.1
G	Southbound	B4449 Southbound	8,439	5.2%	8,172	5.3%	81			
J	Eastbound	A40 East Eastbound	15,839	9.0%	16,579	8.6%	81	76.4	76.5	+0.1
J	Westbound	A40 East Westbound	13,860	8.7%	14,443	8.3%	81			
L	Northbound	Yarnton South Northbound	3,142	1.4%	2,822	1.5%	50	63.8	64.0	+0.2
L	Southbound	Yarnton South Southbound	1,873	1.1%	2,455	0.8%	50			
N	Northbound	Yarnton North Northbound	1,738	2.4%	1,630	2.6%	61	63.5	64.1	+0.6
N	Southbound	Yarnton North Southbound	1,683	1.2%	2,390	0.9%	61			
P	Northbound	Yarnton Road North Northbound	3,527	1.2%	3,493	1.2%	50	65.1	65.6	+0.5
P	Southbound	Yarnton Road North Southbound	3,503	0.6%	4,310	0.5%	50			
Q	Eastbound	A40 East Eastbound	13,610	10.1%	14,569	9.4%	81	76.0	76.1	+0.1
Q	Westbound	A40 East Westbound	13,121	8.8%	13,042	8.9%	81			
R	Northbound	A34 South Northbound	49,247	4.5%	51,225	4.3%	97	82.2	82.3	+0.1
R	Southbound	A34 South Southbound	51,000	4.7%	52,372	4.6%	97			
Z	Northbound	A4165 Banbury Road North Northbound	6,173	6.8%	6,204	7.1%	50	69.8	69.7	-0.1
Z	Southbound	A4165 Banbury Road North Southbound	7,636	5.7%	7,038	6.3%	50			
AB	Northbound	A4165 Banbury Road North Northbound	6,098	6.8%	6,138	7.1%	50	69.8	69.7	-0.1
AB	Southbound	A4165 Banbury Road North Southbound	7,786	5.6%	7,125	6.2%	50			
AG	Northbound	A4165 Banbury Road North Northbound	6,525	6.8%	6,169	7.5%	50	70.1	69.9	-0.2
AG	Southbound	A4165 Banbury Road North Southbound	8,388	5.4%	7,471	5.9%	50			
AJ	Northbound	A4165 Banbury Road North Northbound	6,881	6.3%	6,586	6.9%	50	70.1	70.0	-0.1
AJ	Southbound	A4165 Banbury Road North Southbound	8,458	5.3%	7,551	5.9%	50			
AK	Northbound	A4165 Banbury Road North Northbound	7,166	6.1%	6,886	6.6%	50	70.1	69.9	-0.2
AK	Southbound	A4165 Banbury Road North Southbound	8,067	5.6%	7,183	6.2%	50			
AO	Eastbound	A40 West Eastbound	17,401	4.8%	17,439	4.7%	50	72.8	73.0	+0.2
AO	Westbound	A40 West Westbound	12,238	5.8%	13,701	5.4%	50			
AP	Northbound	Banbury Road North Northbound	9,877	5.4%	8,801	6.1%	50	70.9	70.6	-0.3
AP	Southbound	Banbury Road North Southbound	8,629	5.6%	8,067	6.0%	50			
AQ	Eastbound	A40 East Eastbound	22,658	4.3%	22,679	4.3%	78	76.7	76.8	+0.1
AQ	Westbound	A40 East Westbound	18,827	5.0%	19,102	4.9%	78			
AS	Northbound	A4165 Banbury Road North Northbound	9,448	5.6%	8,450	6.3%	50	70.7	70.5	-0.2
AS	Southbound	A4165 Banbury Road North Southbound	8,109	5.9%	7,600	6.3%	50			
AT	Eastbound	Five Mile Drive Eastbound	51	8.7%	51	8.7%	32	56.0	52.7	-3.3
AT	Westbound	Five Mile Drive Westbound	953	2.5%	547	0.0%	32			

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane Closed)		Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane Closed)	BNL Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)	Difference Scenario 3 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
AY	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	7,839	6.8%	50	70.7	70.4	-0.3
AY	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	7,446	6.4%	50			
BB	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	7,839	6.8%	64	71.9	71.6	-0.3
BB	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	7,446	6.4%	64			
BE	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	7,839	6.8%	64	71.9	71.6	-0.3
BE	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	7,446	6.4%	64			
BF	Eastbound	Water Eaton Park & Ride Eastbound	2,329	10.3%	2,255	10.5%	32	65.2	65.2	0.0
BF	Westbound	Water Eaton Park & Ride Westbound	1,720	16.2%	1,708	16.4%	32			
BG	Northbound	A34 North Northbound	39,550	5.2%	40,518	5.1%	97	81.4	81.5	+0.1
BG	Southbound	A34 North Southbound	39,809	5.6%	40,691	5.5%	97			
BH	Northbound	A4260 Frieze Way Northbound	9,547	2.1%	10,149	2.2%	97	73.6	73.8	+0.2
BH	Southbound	A4260 Frieze Way Southbound	4,985	4.5%	5,179	5.0%	97			
BI	Northbound	Oxford Road North Northbound	9,360	6.2%	8,560	6.9%	64	72.3	72.0	-0.3
BI	Southbound	Oxford Road North Southbound	9,368	5.3%	8,505	5.6%	64			
BP	Northbound	A4260 Oxford Road North Northbound	9,448	5.6%	9,265	6.0%	64	72.1	72.0	-0.1
BP	Southbound	A4260 Oxford Road North Southbound	8,803	6.1%	8,090	6.8%	64			
BR	Northbound	A4260 Oxford Road North Northbound	10,430	4.8%	10,247	5.0%	50	70.8	70.7	-0.1
BR	Southbound	A4260 Oxford Road North Southbound	8,231	5.9%	7,491	6.6%	50			
BT	Northbound	A4260 Oxford Road North Northbound	10,024	5.0%	9,809	5.2%	50	70.8	70.6	-0.2
BT	Southbound	A4260 Oxford Road North Southbound	8,080	6.0%	7,340	6.7%	50			
BV	Northbound	A4260 Oxford Road North Northbound	10,020	5.0%	9,806	5.2%	50	70.8	70.6	-0.2
BV	Southbound	A4260 Oxford Road North Southbound	8,082	6.0%	7,342	6.7%	50			
BX	Eastbound	Yarton Road North Eastbound	2,847	3.4%	2,498	3.9%	50	64.5	64.1	-0.4
BX	Westbound	Yarton Road North Westbound	2,774	0.3%	2,530	0.3%	50			
BY	Northbound	A4260 Oxford Road North Northbound	10,283	4.2%	9,843	4.6%	50	70.6	70.4	-0.2
BY	Southbound	A4260 Oxford Road North Southbound	8,248	4.7%	7,390	5.4%	50			
CA	Northbound	A4260 Oxford Road North Northbound	9,830	4.5%	9,381	4.9%	50	70.4	70.3	-0.1
CA	Southbound	A4260 Oxford Road North Southbound	7,807	4.8%	6,985	5.6%	50			
CD	Northbound	A4260 Banbury Road North Northbound	9,504	4.2%	9,070	4.6%	50	70.2	70.0	-0.2
CD	Southbound	A4260 Banbury Road North Southbound	7,138	5.3%	6,495	6.0%	50			
CE	Eastbound	Benmead Road Eastbound	55	0.0%	55	0.0%	50	49.4	49.0	-0.4
CE	Westbound	Benmead Road Westbound	106	4.1%	89	4.9%	50			
CF	Northbound	A4260 Banbury North Northbound	9,517	4.2%	9,081	4.6%	50	70.2	70.0	-0.2
CF	Southbound	A4260 Banbury North Southbound	7,096	5.3%	6,469	6.0%	50			
CH	Northbound	A4260 Banbury Road North Northbound	10,111	3.9%	9,621	4.2%	78	73.0	72.8	-0.2
CH	Southbound	A4260 Banbury Road North Southbound	7,859	4.8%	7,088	5.5%	78			
CL	Northbound	The Blvd Northbound	5,345	3.2%	4,492	3.8%	50	67.5	67.1	-0.4
CL	Southbound	The Blvd Southbound	4,409	4.1%	4,073	4.4%	50			
CO	Northbound	A4260 Banbury Road North Northbound	5,958	4.1%	5,869	4.4%	75	70.9	71.0	+0.1
CO	Southbound	A4260 Banbury Road North Southbound	5,866	4.6%	5,889	4.8%	75			
CQ	Northbound	A4260 Banbury Road North Northbound	6,240	4.2%	6,158	4.4%	78	71.4	71.4	0.0
CQ	Southbound	A4260 Banbury Road North Southbound	5,994	5.3%	6,019	5.3%	78			

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane Closed)		Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane Closed)	BNL Scenario 3: 2033 DS OUD + Committed (w/ Mode Shift)	Difference Scenario 3 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
CR	Northbound	A4260 Banbury Road North Northbound	9,245	4.8%	9,280	4.7%	73	72.9	72.9	0.0
CR	Southbound	A4260 Banbury Road North Southbound	9,741	5.1%	9,737	5.1%	73			
CS	Eastbound	A4095 Upper Campsfield Road Eastbound	3,671	4.9%	3,976	4.1%	81	70.0	70.1	+0.1
CS	Westbound	A4095 Upper Campsfield Road Westbound	4,604	4.1%	4,753	3.8%	81			
CU	Eastbound	A4095 Upper Campsfield South Eastbound	5,492	4.5%	5,372	4.4%	81	71.7	71.5	-0.2
CU	Westbound	A4095 Upper Campsfield South Westbound	7,572	2.5%	7,154	2.5%	81			
CV	Northbound	A44 Oxford Road North Northbound	7,108	4.5%	6,767	4.6%	81	72.7	72.4	-0.3
CV	Southbound	A44 Oxford Road North Southbound	8,595	4.0%	7,677	4.5%	81			
CW	Eastbound	A4095 Grove Road Eastbound	7,582	3.7%	7,299	3.8%	50	69.8	69.7	-0.1
CW	Westbound	A4095 Grove Road Westbound	8,205	4.4%	8,057	4.5%	50			
CX	Northbound	A44 Woodstock Road North Northbound	11,820	3.9%	11,213	4.0%	97	76.2	75.9	-0.3
CX	Southbound	A44 Woodstock Road North Southbound	14,586	2.5%	13,003	2.7%	97			
CY	Northbound	A44 Woodstock Road South Northbound	12,443	2.9%	11,162	3.0%	80	74.7	74.4	-0.3
CY	Southbound	A44 Woodstock Road South Southbound	15,532	2.2%	14,442	2.2%	80			
CZ	Eastbound	Spring Hill Road Eastbound	827	0.0%	716	0.0%	50	57.3	56.6	-0.7
CZ	Westbound	Spring Hill Road Westbound	432	0.0%	365	0.0%	50			
DA	Northbound	A44 Woodstock Road North Northbound	12,194	2.9%	10,890	3.1%	80^	74.7	72.5	-2.2
DA	Southbound	A44 Woodstock Road North Southbound	15,609	2.1%	14,269	2.2%	80^			
DD	Northbound	A44 Woodstock Road South Northbound	12,266	3.1%	14,736	2.5%	80^	74.8	73.6	-1.2
DD	Southbound	A44 Woodstock Road South Southbound	15,665	2.3%	16,872	2.0%	80^			
DF	Northbound	Rutten Lane Northbound	1,816	1.4%	1,515	1.7%	50	62.9	62.1	-0.8
DF	Southbound	Rutten Lane Southbound	1,858	3.3%	1,461	4.1%	50			
DH	Northbound	A44 Woodstock Road North Northbound	12,531	3.4%	14,977	2.7%	80^	74.8	73.7	-1.1
DH	Southbound	A44 Woodstock Road North Southbound	15,687	2.3%	16,807	2.1%	80^			
DJ	Northbound	A44 Woodstock Road South Northbound	12,523	3.4%	15,324	2.6%	80*	74.8	74.8	0.0
DJ	Southbound	A44 Woodstock Road South Southbound	15,694	2.3%	17,155	2.0%	80*			
DK	Northbound	Cassington Road Northbound	2,652	1.7%	2,617	1.6%	50	64.0	64.4	+0.4
DK	Southbound	Cassington Road Southbound	2,422	1.7%	2,979	1.3%	50			
DN	Northbound	A44 Woodstock Road South Northbound	14,040	2.8%	16,971	2.2%	80*	75.2	74.4	-0.8
DN	Southbound	A44 Woodstock Road South Southbound	17,165	1.9%	18,141	1.7%	80*			
DO	Northbound	A44 South Northbound	19,050	2.9%	22,129	2.5%	80	76.1	76.5	+0.4
DO	Southbound	A44 South Southbound	18,439	2.8%	19,215	2.7%	80			
DP	Northbound	A44 North Northbound	19,936	4.1%	20,932	3.9%	80	76.5	76.5	0.0
DP	Southbound	A44 North Southbound	19,407	3.4%	18,587	3.6%	80			
DQ	Eastbound	Park & Ride Eastbound	1,142	6.3%	1,126	6.4%	50	62.8	62.8	0.0
DQ	Westbound	Park & Ride Westbound	1,801	4.6%	1,803	4.6%	50			
DR	Northbound	A44 South Northbound	19,593	4.6%	20,568	4.3%	50	73.7	73.8	+0.1
DR	Southbound	A44 South Southbound	19,602	3.7%	18,782	4.0%	50			
DW	Eastbound	A40 Northern By Pass Road Eastbound	11,933	11.3%	11,603	11.7%	50	72.5	72.4	-0.1
DW	Westbound	A40 Northern By Pass Road Westbound	8,737	8.3%	8,587	8.2%	50			

Notes: * in the DS Scenario, the speed on this link is reduced to 68 kmph
^ in the DS scenario the speed on this link is reduced to 64 kmph

Table 3 Cumulative Operational Traffic Data and Basic Noise Level Calculations - Scenario 4 (2033 Do Something Cumulative) vs Scenario 2 (2033 Reference Case (Sandy Lane closed))

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane closed)		Scenario 4: 2033 DS Cumulative (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane closed)	BNL Scenario 4: 2033 Do Something Cumulative (w/ Mode Shift)	Difference Scenario 4 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
A	Eastbound	A40 West Eastbound	18,354	9.5%	19,036	9.2%	81	77.2	77.2	0.0
A	Westbound	A40 West Westbound	18,354	6.9%	18,686	6.7%	81			
C	Eastbound	A40 East Eastbound	19,781	7.7%	20,105	7.5%	81	77.4	77.4	0.0
C	Westbound	A40 East Westbound	19,744	7.8%	19,928	7.7%	81			
E	Eastbound	A40 East Eastbound	17,214	8.4%	17,876	8.1%	81	76.8	76.9	+0.1
E	Westbound	A40 East Westbound	17,341	7.1%	17,732	6.9%	81			
F	Northbound	Lower Road Northbound	4,228	8.2%	3,897	8.7%	97	72.6	72.4	-0.2
F	Southbound	Lower Road Southbound	5,548	6.4%	5,263	6.7%	97			
G	Northbound	B4449 Northbound	9,193	4.8%	8,896	5.0%	81	73.4	73.3	-0.1
G	Southbound	B4449 Southbound	8,439	5.2%	8,172	5.2%	81			
J	Eastbound	A40 East Eastbound	15,839	9.0%	16,771	8.6%	81	76.4	76.5	+0.1
J	Westbound	A40 East Westbound	13,860	8.7%	14,519	8.1%	81			
L	Northbound	Yarnton South Northbound	3,142	1.4%	3,088	1.4%	50	63.8	62.9	-0.9
L	Southbound	Yarnton South Southbound	1,873	1.1%	1,030	0.0%	50			
N	Northbound	Yarnton North Northbound	1,738	2.4%	1,874	2.3%	61	63.5	62.6	-0.9
N	Southbound	Yarnton North Southbound	1,683	1.2%	935	0.0%	61			
P	Northbound	Yarnton Road North Northbound	3,527	1.2%	3,623	1.2%	50	65.1	64.6	-0.5
P	Southbound	Yarnton Road North Southbound	3,503	0.6%	2,689	0.0%	50			
Q	Eastbound	A40 East Eastbound	13,610	10.1%	14,652	9.4%	81	76.0	76.3	+0.3
Q	Westbound	A40 East Westbound	13,121	8.8%	14,630	7.9%	81			
R	Northbound	A34 South Northbound	49,247	4.5%	51,828	4.2%	97	82.2	82.4	+0.2
R	Southbound	A34 South Southbound	51,000	4.7%	52,440	4.5%	97			
Z	Northbound	A4165 Banbury Road North Northbound	6,173	6.8%	8,084	5.7%	50	69.8	70.2	+0.4
Z	Southbound	A4165 Banbury Road North Southbound	7,636	5.7%	7,446	5.9%	50			
AB	Northbound	A4165 Banbury Road North Northbound	6,098	6.8%	8,025	5.7%	50	69.8	70.2	+0.4
AB	Southbound	A4165 Banbury Road North Southbound	7,786	5.6%	7,571	5.8%	50			
AG	Northbound	A4165 Banbury Road North Northbound	6,525	6.8%	7,733	6.1%	50	70.1	70.3	+0.2
AG	Southbound	A4165 Banbury Road North Southbound	8,388	5.4%	8,281	5.4%	50			
AJ	Northbound	A4165 Banbury Road North Northbound	6,881	6.3%	8,171	5.8%	50	70.1	70.4	+0.3
AJ	Southbound	A4165 Banbury Road North Southbound	8,458	5.3%	8,397	5.3%	50			
AK	Northbound	A4165 Banbury Road North Northbound	7,166	6.1%	8,497	5.6%	50	70.1	70.4	+0.3
AK	Southbound	A4165 Banbury Road North Southbound	8,067	5.6%	8,024	5.6%	50			
AO	Eastbound	A40 West Eastbound	17,401	4.8%	16,881	4.8%	50	72.8	73.1	+0.3
AO	Westbound	A40 West Westbound	12,238	5.8%	15,821	4.8%	50			
AP	Northbound	Banbury Road North Northbound	9,877	5.4%	9,615	5.6%	50	70.9	71.1	+0.2
AP	Southbound	Banbury Road North Southbound	8,629	5.6%	10,148	5.0%	50			
AQ	Eastbound	A40 East Eastbound	22,658	4.3%	23,148	4.2%	78	76.7	76.8	+0.1
AQ	Westbound	A40 East Westbound	18,827	5.0%	19,656	4.8%	78			
AS	Northbound	A4165 Banbury Road North Northbound	9,448	5.6%	9,273	5.8%	50	70.7	71.0	+0.3
AS	Southbound	A4165 Banbury Road North Southbound	8,109	5.9%	9,721	5.2%	50			
AT	Eastbound	Five Mile Drive Eastbound	51	8.7%	123	0.0%	32	56.0	53.9	-2.1
AT	Westbound	Five Mile Drive Westbound	953	2.5%	703	0.7%	32			

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane closed)		Scenario 4: 2033 DS Cumulative (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane closed)	BNL Scenario 4: 2033 Do Something Cumulative (w/ Mode Shift)	Difference Scenario 4 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
AY	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,768	6.0%	50	70.7	70.9	+0.2
AY	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	9,806	5.1%	50			
BB	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,181	6.5%	64	71.9	71.9	0.0
BB	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	8,650	5.8%	64			
BE	Northbound	A4165 Oxford Road North Northbound	8,714	6.1%	8,598	6.2%	64	71.9	72.1	+0.2
BE	Southbound	A4165 Oxford Road North Southbound	8,333	6.0%	9,509	5.3%	64			
BF	Eastbound	Water Eaton Park & Ride Eastbound	2,329	10.3%	2,266	10.5%	32	65.2	65.2	+0.0
BF	Westbound	Water Eaton Park & Ride Westbound	1,720	16.2%	1,734	16.2%	32			
BG	Northbound	A34 North Northbound	39,550	5.2%	40,728	5.0%	97	81.4	81.5	+0.1
BG	Southbound	A34 North Southbound	39,809	5.6%	40,845	5.4%	97			
BH	Northbound	A4260 Frieze Way Northbound	9,547	2.1%	11,516	2.0%	97	73.6	74.3	+0.7
BH	Southbound	A4260 Frieze Way Southbound	4,985	4.5%	6,213	2.8%	97			
BI	Northbound	Oxford Road North Northbound	9,360	6.2%	9,175	6.3%	64	72.3	72.4	+0.1
BI	Southbound	Oxford Road North Southbound	9,368	5.3%	10,419	4.7%	64			
BP	Northbound	A4260 Oxford Road North Northbound	9,448	5.6%	9,755	5.7%	64	72.1	72.3	+0.2
BP	Southbound	A4260 Oxford Road North Southbound	8,803	6.1%	9,499	5.1%	64			
BR	Northbound	A4260 Oxford Road North Northbound	10,430	4.8%	10,804	4.8%	50	70.8	71	+0.2
BR	Southbound	A4260 Oxford Road North Southbound	8,231	5.9%	8,995	4.8%	50			
BT	Northbound	A4260 Oxford Road North Northbound	10,024	5.0%	10,346	5.0%	50	70.8	70.9	+0.1
BT	Southbound	A4260 Oxford Road North Southbound	8,080	6.0%	8,854	4.9%	50			
BV	Northbound	A4260 Oxford Road North Northbound	10,020	5.0%	10,340	5.0%	50	70.8	70.9	+0.1
BV	Southbound	A4260 Oxford Road North Southbound	8,082	6.0%	8,864	4.9%	50			
BX	Eastbound	Yarton Road North Eastbound	2,847	3.4%	2,513	3.8%	50	64.5	64.2	-0.3
BX	Westbound	Yarton Road North Westbound	2,774	0.3%	2,534	0.3%	50			
BY	Northbound	A4260 Oxford Road North Northbound	10,283	4.2%	10,342	4.4%	50	70.6	70.6	0.0
BY	Southbound	A4260 Oxford Road North Southbound	8,248	4.7%	8,870	3.8%	50			
CA	Northbound	A4260 Oxford Road North Northbound	9,830	4.5%	9,884	4.6%	50	70.4	70.5	+0.1
CA	Southbound	A4260 Oxford Road North Southbound	7,807	4.8%	8,463	4.0%	50			
CD	Northbound	A4260 Banbury Road North Northbound	9,504	4.2%	9,580	4.4%	50	70.2	70.3	+0.1
CD	Southbound	A4260 Banbury Road North Southbound	7,138	5.3%	7,981	4.2%	50			
CE	Eastbound	Benmead Road Eastbound	55	0.0%	93	0.0%	50	49.4	50.2	+0.8
CE	Westbound	Benmead Road Westbound	106	4.1%	110	3.9%	50			
CF	Northbound	A4260 Banbury North Northbound	9,517	4.2%	9,563	4.4%	50	70.2	70.3	+0.1
CF	Southbound	A4260 Banbury North Southbound	7,096	5.3%	7,966	4.2%	50			
CH	Northbound	A4260 Banbury Road North Northbound	10,111	3.9%	10,191	4.1%	78	73.0	73.2	+0.2
CH	Southbound	A4260 Banbury Road North Southbound	7,859	4.8%	8,648	3.9%	78			
CL	Northbound	The Blvd Northbound	5,345	3.2%	4,643	3.8%	50	67.5	67.2	-0.3
CL	Southbound	The Blvd Southbound	4,409	4.1%	4,195	4.3%	50			
CO	Northbound	A4260 Banbury Road North Northbound	5,958	4.1%	6,044	4.3%	75	70.9	71.1	+0.2
CO	Southbound	A4260 Banbury Road North Southbound	5,866	4.6%	6,657	3.1%	75			
CQ	Northbound	A4260 Banbury Road North Northbound	6,240	4.2%	6,322	4.3%	78	71.4	71.6	+0.2
CQ	Southbound	A4260 Banbury Road North Southbound	5,994	5.3%	6,802	3.7%	78			

Link	Direction	Link Name	Scenario 2: 2033 Reference Case (Sandy Lane closed)		Scenario 4: 2033 DS Cumulative (w/ Mode Shift)		Speed (kmph)	BNL Scenario 2: 2033 Reference Case (Sandy Lane closed)	BNL Scenario 4: 2033 Do Something Cumulative (w/ Mode Shift)	Difference Scenario 4 - Scenario 2
			Total Veh.	HGV %	Total Veh.	HGV %				
CR	Northbound	A4260 Banbury Road North Northbound	9,245	4.8%	9,308	4.7%	73	72.9	72.9	0.0
CR	Southbound	A4260 Banbury Road North Southbound	9,741	5.1%	9,806	5.0%	73			
CS	Eastbound	A4095 Upper Campsfield Road Eastbound	3,671	4.9%	4,649	3.5%	81	70.0	70.6	+0.6
CS	Westbound	A4095 Upper Campsfield Road Westbound	4,604	4.1%	4,855	5.1%	81			
CU	Eastbound	A4095 Upper Campsfield South Eastbound	5,492	4.5%	5,284	4.5%	81	71.7	71.4	-0.3
CU	Westbound	A4095 Upper Campsfield South Westbound	7,572	2.5%	6,435	3.9%	81			
CV	Northbound	A44 Oxford Road North Northbound	7,108	4.5%	6,999	5.9%	81	72.7	72.8	+0.1
CV	Southbound	A44 Oxford Road North Southbound	8,595	4.0%	7,849	5.6%	81			
CW	Eastbound	A4095 Grove Road Eastbound	7,582	3.7%	7,321	3.7%	50	69.8	69.7	-0.1
CW	Westbound	A4095 Grove Road Westbound	8,205	4.4%	8,119	4.4%	50			
CX	Northbound	A44 Woodstock Road North Northbound	11,820	3.9%	11,335	4.8%	97	76.2	76	-0.2
CX	Southbound	A44 Woodstock Road North Southbound	14,586	2.5%	12,514	4.1%	97			
CY	Northbound	A44 Woodstock Road South Northbound	12,443	2.9%	11,529	3.7%	80	74.7	74.5	-0.2
CY	Southbound	A44 Woodstock Road South Southbound	15,532	2.2%	13,549	3.5%	80			
CZ	Eastbound	Spring Hill Road Eastbound	827	0.0%	722	0.0%	50	57.3	56.8	-0.5
CZ	Westbound	Spring Hill Road Westbound	432	0.0%	397	0.0%	50			
DA	Northbound	A44 Woodstock Road North Northbound	12,194	2.9%	11,296	3.8%	80^	74.7	72.9	-1.8
DA	Southbound	A44 Woodstock Road North Southbound	15,609	2.1%	13,599	3.4%	80^			
DD	Northbound	A44 Woodstock Road South Northbound	12,266	3.1%	14,849	3.1%	80^	74.8	73.8	-1.0
DD	Southbound	A44 Woodstock Road South Southbound	15,665	2.3%	16,486	3.0%	80^			
DF	Northbound	Rutten Lane Northbound	1,816	1.4%	2,098	1.2%	50	62.9	63.3	+0.4
DF	Southbound	Rutten Lane Southbound	1,858	3.3%	2,013	3.0%	50			
DH	Northbound	A44 Woodstock Road North Northbound	12,531	3.4%	15,629	3.2%	80^	74.8	73.9	-0.9
DH	Southbound	A44 Woodstock Road North Southbound	15,687	2.3%	16,474	3.0%	80^			
DJ	Northbound	A44 Woodstock Road South Northbound	12,523	3.4%	16,007	3.1%	80*	74.8	74.4	-0.4
DJ	Southbound	A44 Woodstock Road South Southbound	15,694	2.3%	16,852	2.9%	80*			
DK	Northbound	Cassington Road Northbound	2,652	1.7%	2,711	1.6%	50	64.0	63.5	-0.5
DK	Southbound	Cassington Road Southbound	2,422	1.7%	1,862	1.3%	50			
DN	Northbound	A44 Woodstock Road South Northbound	14,040	2.8%	17,454	2.7%	80*	75.2	74.7	-0.5
DN	Southbound	A44 Woodstock Road South Southbound	17,165	1.9%	18,637	2.5%	80*			
DO	Northbound	A44 South Northbound	19,050	2.9%	23,690	2.7%	80	76.1	76.8	+0.7
DO	Southbound	A44 South Southbound	18,439	2.8%	20,260	3.0%	80			
DP	Northbound	A44 North Northbound	19,936	4.1%	21,924	3.6%	80	76.5	76.7	+0.2
DP	Southbound	A44 North Southbound	19,407	3.4%	19,298	3.9%	80			
DQ	Eastbound	Park & Ride Eastbound	1,142	6.3%	1,121	6.4%	50	62.8	62.8	0.0
DQ	Westbound	Park & Ride Westbound	1,801	4.6%	1,796	4.6%	50			
DR	Northbound	A44 South Northbound	19,593	4.6%	21,566	4.0%	50	73.7	73.9	+0.2
DR	Southbound	A44 South Southbound	19,602	3.7%	19,495	4.3%	50			
DW	Eastbound	A40 Northern By Pass Road Eastbound	11,933	11.3%	12,631	10.5%	50	72.5	72.5	0.0
DW	Westbound	A40 Northern By Pass Road Westbound	8,737	8.3%	9,108	7.8%	50			

Notes: * in the DS Scenario, the speed on this link is reduced to 68 kmph
^ in the DS scenario the speed on this link is reduced to 64 kmph

Figure 1 Road Links

