Appendix B	
Modelled Intersection Performance	

## Appendix B Modelled Intersection Performance

This section presents the results of the modelled intersection performance under the following scenarios:

- '2024 without this proposal' (without construction vehicles)
- '2024 with this proposal as described in the Environmental Impact Statement' (with construction vehicle numbers and routes as described within the Environmental Impact Statement
- '2024 with this proposal' (with construction vehicle numbers and routes as described within this Submissions Report).

The intersection locations referred to in this table are shown in Figure 2-4 and Figure 2-7.

## Modelled intersection performance – Pyrmont Station construction sites

	2024 with	nout this p	oposal			2024 with this proposal as described in the Environmental Impact Statement					2024 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxin queue length direct appro (metre	by ional ach	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxir queud lengtl direct appro	b by bional bach	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)	
Pyrmont B	ridge Roac	/Bank Stre	et												
				NB	390				NB	320				NB	580
Mariaina	2.005	. 100	_	EB	50	2.005	>100	F	EB	70	2,848	>100	F	EB	50
Morning	2,885	>100	F	SB	260	2,895	>100	Г	SB	270				SB	260
				WB	80				WB	130				WB	140
				NB	100				NB	100				NB	110
Evening	2,939	>100	F	EB	310	2,971	>100	F	EB	310	2,891	>100	F	EB	320
Evering	2,939	>100		SB	190	2,971	>100	Г	SB	210		>100		SB	230
				WB	160				WB	160				WB	160
Pyrmont B	ridge Roac	I/Harris Str	eet												
				NB	70	1.897			NB	100				NB	140
Morning	1,851	26	В	EB	120		30	С	EB	100	1,895	33	С	EB	140
iviorimig	1,001	20		SB	70	1,007			SB	100		33		SB	60
				WB	30				WB	30				WB	30
				NB	100	_			NB	150				NB	80
Evening	1,751	26	В	EB	70	1,808	35	С	EB	90	1,745	22	В	EB	90
	1,701	20		SB	70	.,000			SB	80	,0			SB	50
				WB	50				WB	50				WB	30
Pyrmont B	ridge Road	/Pyrmont :	Street								1	1	<u> </u>		
				NB	-	_			NB	-				NB	-
Morning	1,688	19	В	EB	70	1,726	21	В	EB	70	1,748	21	В	EB	80
	.,000			SB	50	.,0			SB	50				SB	50
				WB	50				WB	50				WB	30
				NB	-	-			NB	-				NB	-
Evening	1,597	21	В	EB	60	1,675	21	В	EB	60	70 1,624	21	В	EB	70
	1,001	Z 1   C		SB	70				SB	70			B	SB	80
				WB	40				WB	40				WB	30

	2024 with	nout this p	roposal				n this prop				2024 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	flow (vehicles per hour) delay (seconds per vehicle)		vel Maximur queue length by direction approact (metres)		Demand flow (vehicles per hour)	ow delay Level length by directional		Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxir queud lengtl direct appro (metro	e n by ional each		
<b>Darling Dri</b>	ve/Union S	Street/Murr	ay Street												
Morning	992	26	В	NB EB	30 50	1,012	25	В	NB EB	30 70	1,011	25	В	NB EB	30 70
woming	332			SB WB	50 50	- 1,012	20		SB WB	50 50	-	23		SB WB	50 60
Evening	953	31	С	NB EB SB WB	40 30 120 80	1,004	30	С	NB EB SB WB	40 50 120 100	951	31	С	NB EB SB WB	40 30 120 50
Darling Dri	ve/Harbou	rside Acce	ss Road												
Morning	476	4	A	NB EB SB WB	20 - 20 0	477	4	A	NB EB SB WB	20 - 30 0	477	5	A	NB EB SB WB	30 - 20 0
Evening	543	3	A	NB EB SB WB	30 - 10 10	543	3	A	NB EB SB WB	30 - 10 10	542	3	A	NB EB SB WB	10 - 10 10
<b>Union Stre</b>	et/Edward	Street													
Morning	322	15	В	NB EB SB WB	40 20 20 10	324	16	В	NB EB SB WB	40 20 20 30	327	15	В	NB EB SB WB	40 30 20 0
Evening	439	20	В	NB EB SB WB	30 30 20 50	429	18	В	NB EB SB WB	40 30 20 30	434	14	A	NB EB SB WB	40 30 20 0

	2024 with	nout this p	roposal				n this prope onmental l					2024 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)		Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	length by		Demand flow (vehicles per hour)	Average delay Level of (seconds per vehicle)		Maxin queue length direct appro (metre	e n by ional ach	
<b>Union Stre</b>	et/Pyrmon	t Street														
Morning	554	14	A	NB EB SB WB	40 10 50 40	552	19	В	NB EB SB WB	30 10 50 50	554	17	В	NB EB SB WB	40 10 50 50	
Evening	736	14	A	NB EB SB WB	40 30 70 40	740	14	A	NB EB SB WB	40 30 50 40	737	14	А	NB EB SB WB	50 20 70 40	
Harris Stre	et/Allen St	reet		***					112					112		
Morning	1,608	26	В	NB EB SB WB	70 90 70	1,612	26	В	NB EB SB WB	70 90 50	1,599	26	В	NB EB SB WB	70 100 40	
Evening	1,387	28	В	NB EB SB WB	50 80 50	1,394	28	В	NB EB SB WB	50 80 50	1,393	28	В	NB EB SB WB	50 80 50	
<b>Harris Stre</b>	et/Fig Stre	et/Western	Distribu	tor												
Morning	3,484	56	D	NB EB SB WB	60 140 80 290	3,488	56	D	NB EB SB WB	60 140 70 290	3,479	56	D	NB EB SB WB	60 140 80 290	
Evening	3,014	38	С	NB EB SB WB	50 100 70 90	3,017	38	С	NB EB SB WB	50 100 70 90	3,015	38	С	NB EB SB WB	50 100 70 90	

## Modelled intersection performance – Hunter Street Station (Sydney CBD) construction sites (preferred route)

	2025 with	nout this pr	oposal				n this prope					2025 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxim queue length direct appro (metre	by ional ach	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxin queue length direct appro (metre	by ional ach	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxim queue length direct appro (metre	e n by ional ach	
Macquarie	Street/Brid	ge Street														
Morning	2,175	27	В	NB EB SB WB	80 50 30 70	2,177	27	В	NB EB SB WB	90 50 30 150	2,188	27	В	NB EB SB WB	80 50 30 70	
Evening	2,547	27	В	NB EB SB WB	80 80 90 20	2,537	27	В	NB EB SB WB	70 80 90 40	2,562	27	В	NB EB SB WB	80 80 90 30	
Macquarie	Street/Ben	t Street/Sh	akespea	re Plac	e											
Morning	3,422	30	С	NB EB SB WB	70 40 100 160	3,409	31	С	NB EB SB WB	70 40 140 140	3,457	30	С	NB EB SB WB	70 50 100 140	
Evening	4,014	41	С	NB EB SB WB	90 100 140 140	4,041	41	С	NB EB SB WB	90 100 160 140	4,060	39	С	NB EB SB WB	90 90 150 160	
Macquarie	Street/Hur	nter Street														
Morning	2,120	28	В	NB EB SB WB	160 140 70	2,090	30	С	NB EB SB WB	200 100 50	2,086	30	С	NB EB SB WB	230 100 50	
Evening	2,183	38	С	NB EB SB WB	190 150 90	2,187	40	С	NB EB SB WB	210 120 80	2,216	35	С	NB EB SB WB	160 140 80	

	2025 witl	nout this p	roposal				n this prop conmental				2025 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximu queue length direction approa (metres	by onal ich	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)		Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)	
Hunter Str	eet/Elizabe	th Street													
Morning	1,948	30	С	NB EB SB WB	70 60 100 100	1,914	31	С	NB EB SB WB	70 60 100 70	1,913	39	С	NB EB SB WB	70 60 80 150
Evening	2,001	29	С	NB EB SB WB	160 60 70 50	2,000	27	В	NB EB SB WB	170 50 50 50	1,987	34	С	NB EB SB WB	160 60 50
Hunter Str	eet/Castler	eagh Stree	t												
Morning	1,194	22	В	NB EB SB WB	- 110 120 30	1,196	21	В	NB EB SB WB	- 100 100 30	1,197	42	С	NB EB SB WB	- 110 120 50
Evening	1,030	13	A	NB EB SB WB	- 100 50 30	1,027	10	A	NB EB SB WB	- 40 30 40	1,031	17	В	NB EB SB WB	- 60 40 40
<b>Hunter Stre</b>	et/Pitt Str	eet/O'Conn	ell Stree	t											
Morning	1,145	24	В	NB EB SB WB	60 70 70 50	1,148	26	В	NB EB SB WB	60 80 70 50	1,172	42	С	NB EB SB WB	60 120 100 60
Evening	897	19	В	NB EB SB WB	50 50 30 60	874	21	В	NB EB SB WB	60 50 30 70	884	20	В	NB EB SB WB	50 50 30 60

	2025 with	nout this p	roposal			th this prop				2025 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directions approach (metres)	Demand flow (vehicles	flow (seconds (seconds of Service directional		Demand Average delay Level of (vehicles (seconds per hour) per vehicle)		Maximum queue length by directional approach (metres)				
Bent Street	:/Phillip Sti	reet												
Morning	1,416	27	В	EB 1 SB 1	0 0 20 0	31	С	NB EB SB WB	60 20 120 90	1,505	28	В		70 10 120 80
Evening	1,911	54	D	NB 1 EB 4 SB 2	60 0 10 00 1,950	55	D	NB EB SB WB	160 40 200 100	1,941	54	D	NB EB SB WB	160 30 200 100
Bent Street	/Bligh Stre	eet												
Morning	665	5	A	NB - EB 4 SB - WB 3	0 684	8	A	NB EB SB WB	50 - 40	760	6	А	NB EB SB WB	- 40 - 30
Evening	876	7	A	NB - EB 5 SB -	913	8	A	NB EB SB WB	50 - 50	879	9	А	NB EB SB WB	- 50 - 40
Hunter Stre	et/George S	Street/Marg	aret Stree	et										
Morning	712	21	В	SB -	694	22	В	NB EB SB WB	- 80 - 70	698	19	В	NB EB SB WB	- 100 - 70
Evening	609	28	В	NB - EB 1 SB -	00 577	27	В	NB EB SB WB	- 110 - 70	575	28	В	NB	- 110 - 90

	2025 witl	nout this p	roposal				n this properon				2025 with this proposal as described within this Submissions Report				
Intersection and peak hour	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maxim queue length direct appro (metre	e n by ional ach	Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)		Demand flow (vehicles per hour)	Average delay (seconds per vehicle)	Level of Service	Maximum queue length by directional approach (metres)	
Margaret S	treet/York	Street													
mai gai ot o				NB	-				NB	_				NB	-
			_	EB	70		40		EB	60	1,674			EB	60
Morning	1,716	18	В	SB	70	1,681	18	В	SB	70		18	В	SB	80
				WB	80				WB	80				WB	80
				NB	-				NB	-				NB	-
<b>-</b>	4 400	04	_	EB	50	1,392	24	_	EB	60	1 205	04		EB	50
Evening	1,408	21	В	SB	80	1,392	21	В	SB	70	1,385	21	В	SB	80
				WB	120				WB	120				WB	120
Margaret S	treet/Clare	nce Street													
				NB	100				NB	80				NB	190
Maraina	4.000	50	E	EB		1.044	55	D	EB	80	1,076	59	E	EB	80
Morning	1,063	59	<b>E</b>	SB	-	1,044			SB	-				SB	-
				WB	40				WB	40				WB	40
				NB	190				NB	190				NB	170
Evening	1,316	53	D	EB	80	1,319	53	D	EB	80	1,309	52	D	EB	80
Lverning	1,010	33		SB	-	1,010	33		SB	-	1,505	52		SB	-
				WB	50				WB	40				WB	50
Clarence S	treet/Jami:	son Street													
				NB	60				NB	70				NB	70
Marning	731	18	В	EB	-	774	27	В	EB	-	756	27	В	EB	-
Morning	731	10	Ь	SB	-	174	21	Ь	SB	-	736	21	Ь	SB	-
				WB	40				WB	50				WB	50
				NB	70				NB	70				NB	70
Evening	1,017	14	Α	EB	-	1,002	14	A	EB	-	1052	15	B	EB	-
Lvering	1,017	17		SB	-				SB	-			В	SB	-
				WB	40				WB	40				WB	40



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