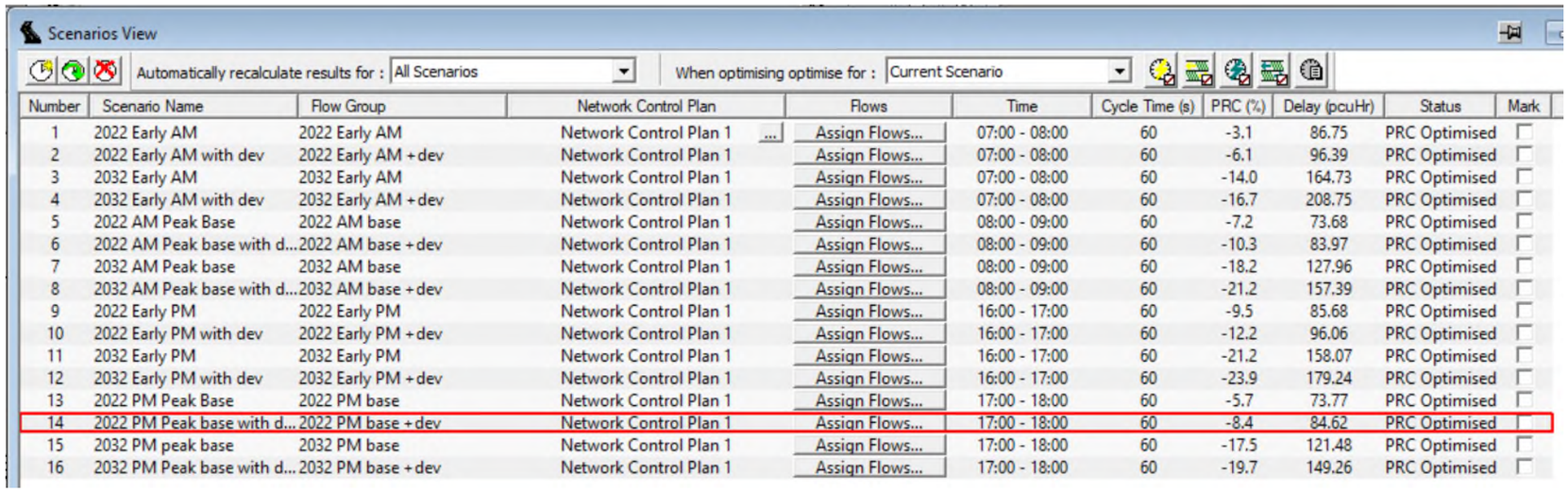

Number	Scenario Name	Flow Group	Network Control Plan	Flows	Time	Cycle Time (s)	PRC (%)	Delay (pcuHr)	Status	Mark
1	2022 Early AM	2022 Early AM	Network Control Plan 1	Assign Flows...	07:00 - 08:00	60	-3.1	86.75	PRC Optimised	
2	2022 Early AM with dev	2022 Early AM + dev	Network Control Plan 1	Assign Flows...	07:00 - 08:00	60	-6.1	96.39	PRC Optimised	
3	2032 Early AM	2032 Early AM	Network Control Plan 1	Assign Flows...	07:00 - 08:00	60	-14.0	164.73	PRC Optimised	
4	2032 Early AM with dev	2032 Early AM + dev	Network Control Plan 1	Assign Flows...	07:00 - 08:00	60	-16.7	208.75	PRC Optimised	
5	2022 AM Peak Base	2022 AM base	Network Control Plan 1	Assign Flows...	08:00 - 09:00	60	-7.2	73.68	PRC Optimised	
6	2022 AM Peak base with d...	2022 AM base + dev	Network Control Plan 1	Assign Flows...	08:00 - 09:00	60	-10.3	83.97	PRC Optimised	
7	2032 AM Peak base	2032 AM base	Network Control Plan 1	Assign Flows...	08:00 - 09:00	60	-18.2	127.96	PRC Optimised	
8	2032 AM Peak base with d...	2032 AM base + dev	Network Control Plan 1	Assign Flows...	08:00 - 09:00	60	-21.2	157.39	PRC Optimised	
9	2022 Early PM	2022 Early PM	Network Control Plan 1	Assign Flows...	16:00 - 17:00	60	-9.5	85.68	PRC Optimised	
10	2022 Early PM with dev	2022 Early PM + dev	Network Control Plan 1	Assign Flows...	16:00 - 17:00	60	-12.2	96.06	PRC Optimised	
11	2032 Early PM	2032 Early PM	Network Control Plan 1	Assign Flows...	16:00 - 17:00	60	-21.2	158.07	PRC Optimised	
12	2032 Early PM with dev	2032 Early PM + dev	Network Control Plan 1	Assign Flows...	16:00 - 17:00	60	-23.9	179.24	PRC Optimised	
13	2022 PM Peak Base	2022 PM base	Network Control Plan 1	Assign Flows...	17:00 - 18:00	60	-5.7	73.77	PRC Optimised	
14	2022 PM Peak base with d...	2022 PM base + dev	Network Control Plan 1	Assign Flows...	17:00 - 18:00	60	-8.4	84.62	PRC Optimised	
15	2032 PM peak base	2032 PM base	Network Control Plan 1	Assign Flows...	17:00 - 18:00	60	-17.5	121.48	PRC Optimised	
16	2032 PM Peak base with d...	2032 PM base + dev	Network Control Plan 1	Assign Flows...	17:00 - 18:00	60	-19.7	149.26	PRC Optimised	

													LMR	1 CW		5 BHR		4 HR		3 BNR		
								Vary + 1 sec to LMR (st 2)					green	Ext	Int	Ext	Int	Ext	Int	Ext	Int	
Number	Scenario	Time	prc	highest	LMR	MMQ	In M	prc	highest	LMR	MMQ	In M		Degree of saturation								
1	2022 early AM	0700-0800	-5.8	95.2	95.2	14.2	82	-3.1	92.8=BHR	89.8	10.8	62	14	85	61	92	64	90	70	91	51	
2	2022 early AM+dev		-9.7	98.7	98.7	19	109	-6.1	95.5=BHR	93.1	12.9	74	14	87	64	95	66	94	73	92	51	
3	2032 early AM		-17.1	105.4	105.4	37.1	213	-14.0	102.6=BHR	99.4	20.8	120	14	94	68	102	71	99	77	101	56	
4	2032 early AM+dev		-21.9	108.9	108.9	51.2	294	-16.7	105.0=BHR	102.7	30.7	176	14	102	78	105	72	103	79	102	55	
5	2022 AM	0800-0900	-24.2	111.8	111.8	49.2	282	-17.1	105.4=LMR	105.4	33.4	192	17	79	46	96	52	79	66	88	41	See table below For + 4 seconds Vary for LMR
6	2022 AM+dev		-29.4	116.4	116.4	65.7	377	-22.0	109.8=LMR	109.8	48.0	275	17	81	50	98	54	83	69	89	41	
7	2032 AM		-37.2	123.5	123.5	84.1	482	-29.4	116.5=LMR	116.5	66.8	383	17	87	51	106	58	87	72	97	45	
8	2032 AM+dev		-42.4	128.1	128.1	102.6	588	-34.3	120.8=LMR	120.8	84.1	482	17	89	54	109	59	91	74	99	45	
9	2022 early PM	1600-1700	-9.5	98.6	83.7	8	46	-9.5	98.6=BHR	77.8	7.2	41	13	91	53	98	60	77	78	89	50	
10	2022 early PM+dev		-12.2	100.9	90.4	10.3	59	-12.2	100.9=BHR	83.9	8.5	49	13	93	58	100	62	81	81	90	56	
11	2032 early PM		-21.2	109.1	92.8	11.5	66	-21.2	109.1=BHR	86.2	9.1	52	13	101	59	109	66	86	83	99	53	
12	2032 early PM+dev		-23.9	111.5	99.4	18.8	108	-23.9	111.5=BHR	92.3	11.8	68	13	103	64	111	68	89	85	100	58	
13	2022 PM	1700-1800	-7.6	96.8	96.8	14.6	84	-5.7	95.1=BHR	89.9	10.5	60	13	80	53	95	61	76	73	85	48	
14	2022 PM+dev		-15.0	103.5	103.5	26.4	151	-8.4	97.5=BHR	96.1	14.8	85	13/19	81	59	97	63	79	77	86	54	
15	2032 PM		-19.2	107.3	107.3	34.3	197	-17.5	105.7=BHR	99.6	19	109	13	88	59	105	67	84	80	94	52	
16	2032 PM+dev		-26.6	114.0	114.0	55.6	319	-19.7	107.8=BHR	105.8	34.6	198	13	90	63	107	69	88	82	96	58	

BHR is Brighouse Road, arm 4/1 & 4/2

AM Peak results with vary of 4 seconds

								Vary + 4 sec to LMR					Roundabout arm 10		
Number	Scenario	Time	prc	highest	LMR	MMQ	In M	prc	highest	LMR	MMQ	In M	Int(%)	MMQ	(m)
5	2022 AM	0800-0900	-24.2	111.8	111.8	49.2	282	-7.2	96.2=BHR	91.1	12.3	71	70.8	3.7	21
6	2022 AM+dev		-29.4	116.4	116.4	65.7	377	-10.3	98.9=BHR	95.5	16.2	93	71.9	3.7	21
7	2032 AM		-37.2	123.5	123.5	84.1	482	-18.2	106.4=BHR	100.6	24.3	139	78.3	5.2	30
8	2032 AM+dev		-42.4	128.1	128.1	102.6	588	-21.2	109.1=BHR	105.1	37.8	217	79.4	5.3	30

predicted queue lengths on circulatory arm 10 are still within acceptable limits and do not block back to the upstream node.