

SIDRA Results – Te Rapa Road / Sir Tristram Avenue Intersection

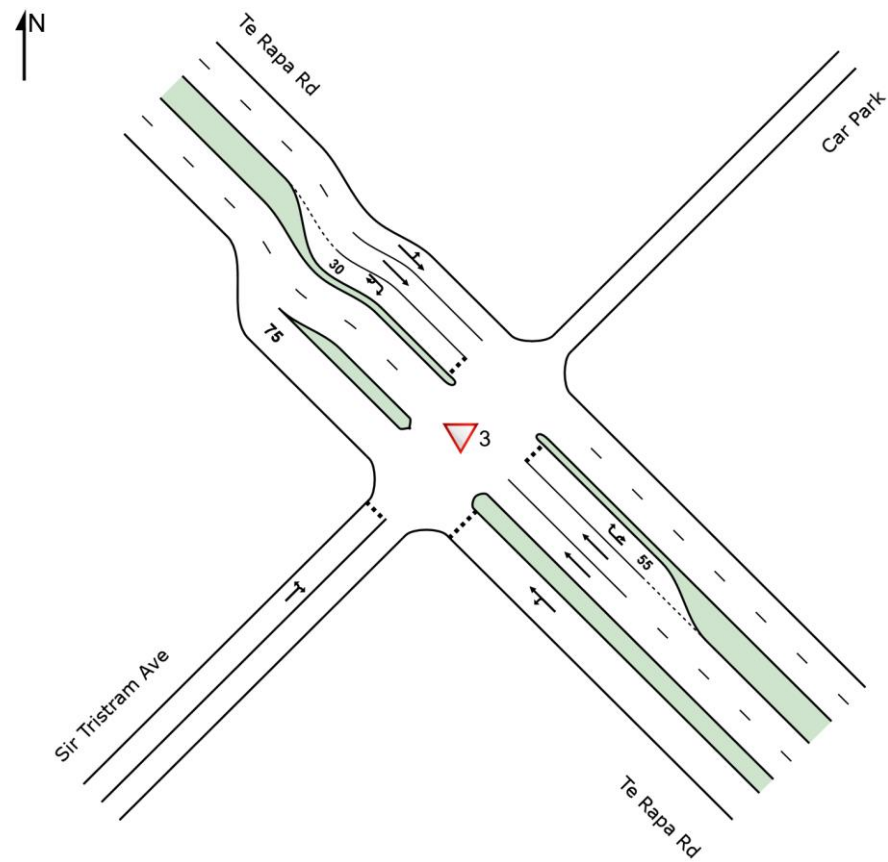


Figure 1: Existing Te Rapa Rd / Sir Tristram Ave Int (baseline scenarios)

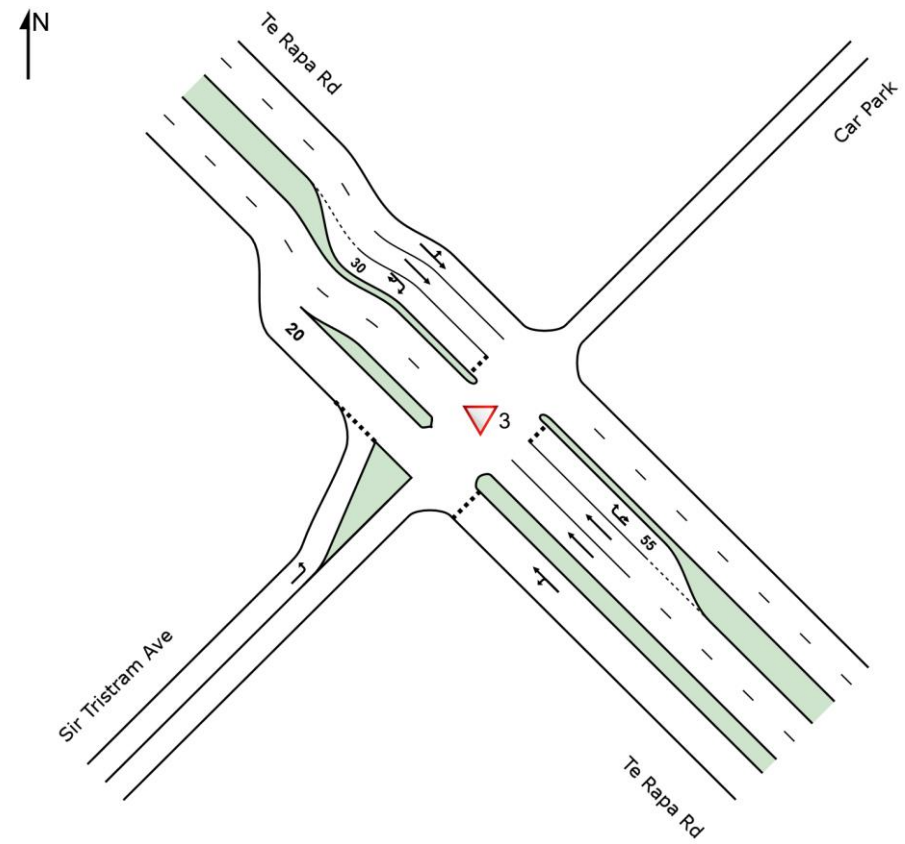


Figure 2: Proposed Te Rapa Rd / Sir Tristram Ave Int (Development scenarios)

2021 Baseline

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 - AM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] [veh/h %]		DEMAND FLOWS [Total HV] [veh/h %]		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] [veh m]		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	74	6.0	74	6.0	0.347	5.0	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1435	7.0	1435	7.0	0.381	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	23	0.0	23	0.0	0.118	19.5	LOS C	0.3	2.0	0.86	0.94	0.86	34.9
6u	U	3	0.0	3	0.0	0.118	20.6	LOS C	0.3	2.0	0.86	0.94	0.86	26.7
Approach		1535	6.8	1535	6.8	0.381	4.6	LOS A	0.3	2.0	0.01	0.53	0.01	51.1
NorthWest: Te Rapa Rd														
27	L2	8	0.0	8	0.0	0.395	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1466	7.0	1466	7.0	0.395	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	49	6.0	49	6.0	0.425	15.8	LOS C	2.1	15.2	0.79	1.02	1.10	37.9
12u	U	133	6.0	133	6.0	0.425	17.4	LOS C	2.1	15.2	0.79	1.02	1.10	40.4
Approach		1656	6.9	1656	6.9	0.425	5.7	LOS A	2.1	15.2	0.09	0.58	0.12	49.4
SouthWest: Sir Tristram Ave														
1	L2	50	6.0	50	6.0	0.283	6.2	LOS A	0.9	6.6	0.27	0.59	0.31	39.2
3	R2	58	6.0	58	6.0	0.283	20.0	LOS C	0.9	6.6	0.27	0.59	0.31	34.3
Approach		108	6.0	108	6.0	0.283	13.6	LOS B	0.9	6.6	0.27	0.59	0.31	37.1
All Vehicles		3299	6.8	3299	6.8	0.425	5.4	NA	2.1	15.2	0.06	0.56	0.08	49.7

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 - PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total	HV]	[Total	HV]	v/c	sec		[Veh.	Dist]				
		veh/h	%	veh/h	%				veh	m				km/h
SouthEast: Te Rapa Rd														
4	L2	56	6.0	56	6.0	0.147	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	42.7
5	T1	1378	7.0	1378	7.0	0.361	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	13	0.0	13	0.0	0.141	31.9	LOS D	0.3	2.2	0.93	0.97	0.93	29.6
6u	U	4	0.0	4	0.0	0.141	33.0	LOS D	0.3	2.2	0.93	0.97	0.93	20.9
Approach		1451	6.9	1451	6.9	0.361	4.6	LOS A	0.3	2.2	0.01	0.53	0.01	51.1
NorthWest: Te Rapa Rd														
27	L2	6	0.0	6	0.0	0.500	5.7	LOS A	0.0	0.0	0.00	0.53	0.00	54.2
11	T1	1859	7.0	1859	7.0	0.500	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.4
12	R2	35	6.0	35	6.0	0.174	12.3	LOS B	0.6	4.7	0.71	0.87	0.71	40.0
12u	U	42	6.0	42	6.0	0.174	13.9	LOS B	0.6	4.7	0.71	0.87	0.71	42.2
Approach		1942	6.9	1942	6.9	0.500	4.7	LOS A	0.6	4.7	0.03	0.54	0.03	50.8
SouthWest: Sir Tristram Ave														
1	L2	59	6.0	59	6.0	0.492	10.1	LOS B	1.8	12.9	0.20	0.58	0.29	34.9
3	R2	75	6.0	75	6.0	0.492	30.8	LOS D	1.8	12.9	0.20	0.58	0.29	28.7
Approach		134	6.0	134	6.0	0.492	21.7	LOS C	1.8	12.9	0.20	0.58	0.29	32.0
All Vehicles		3527	6.9	3527	6.9	0.500	5.3	NA	1.8	12.9	0.03	0.54	0.03	50.0

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 – Race Day Mid-Day Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	36	6.0	36	6.0	0.168	4.6	LOS A	0.0	0.0	0.00	0.53	0.00	44.4
5	T1	1666	7.0	1666	7.0	0.411	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	24	0.0	24	0.0	0.114	16.8	LOS C	0.3	2.0	0.82	0.92	0.82	36.3
6u	U	6	0.0	6	0.0	0.114	18.0	LOS C	0.3	2.0	0.82	0.92	0.82	28.3
Approach		1732	6.9	1732	6.9	0.411	4.6	LOS A	0.3	2.0	0.01	0.53	0.01	51.3
NorthWest: Te Rapa Rd														
27	L2	6	0.0	6	0.0	0.361	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1339	7.0	1339	7.0	0.361	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	57	6.0	57	6.0	0.392	16.7	LOS C	1.8	12.9	0.81	1.01	1.08	37.4
12u	U	94	6.0	94	6.0	0.392	18.5	LOS C	1.8	12.9	0.81	1.01	1.08	40.0
Approach		1496	6.9	1496	6.9	0.392	5.7	LOS A	1.8	12.9	0.08	0.58	0.11	49.5
SouthWest: Sir Tristram Ave														
1	L2	32	6.0	32	6.0	0.031	5.7	LOS A	0.1	1.0	0.24	0.51	0.24	44.2
3	R2	2	6.0	2	6.0	0.031	18.5	LOS C	0.1	1.0	0.24	0.51	0.24	41.5
Approach		34	6.0	34	6.0	0.031	6.4	LOS A	0.1	1.0	0.24	0.51	0.24	44.1
All Vehicles		3262	6.9	3262	6.9	0.411	5.1	NA	1.8	12.9	0.05	0.55	0.06	50.3

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 – Race Day PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total	HV]	[Total	HV]	v/c	sec		[Veh.	Dist]				
		veh/h	%	veh/h	%				veh	m				km/h
SouthEast: Te Rapa Rd														
4	L2	4	6.0	4	6.0	0.081	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	44.6
5	T1	765	7.0	765	7.0	0.198	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	3	0.0	3	0.0	0.013	10.4	LOS B	0.0	0.2	0.65	0.79	0.65	39.9
6u	U	3	0.0	3	0.0	0.013	11.6	LOS B	0.0	0.2	0.65	0.79	0.65	33.1
Approach		775	6.9	775	6.9	0.198	4.3	LOS A	0.0	0.2	0.01	0.53	0.01	51.8
NorthWest: Te Rapa Rd														
27	L2	9	0.0	9	0.0	0.247	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	912	7.0	912	7.0	0.247	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	7	6.0	7	6.0	0.062	8.0	LOS A	0.2	1.7	0.52	0.72	0.52	42.4
12u	U	34	6.0	34	6.0	0.062	9.7	LOS A	0.2	1.7	0.52	0.72	0.52	44.2
Approach		962	6.9	962	6.9	0.247	4.5	LOS A	0.2	1.7	0.02	0.54	0.02	51.0
SouthWest: Sir Tristram Ave														
1	L2	67	6.0	67	6.0	0.092	4.8	LOS A	0.3	2.5	0.06	0.51	0.06	44.0
3	R2	21	6.0	21	6.0	0.092	11.2	LOS B	0.3	2.5	0.06	0.51	0.06	41.1
Approach		88	6.0	88	6.0	0.092	6.3	LOS A	0.3	2.5	0.06	0.51	0.06	43.5
All Vehicles		1825	6.9	1825	6.9	0.247	4.5	NA	0.3	2.5	0.02	0.53	0.02	50.9

2021 Baseline + Development

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 + Development - AM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	74	6.0	74	6.0	0.347	5.0	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1435	7.0	1435	7.0	0.381	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	23	0.0	23	0.0	0.118	19.5	LOS C	0.3	2.0	0.86	0.94	0.86	34.9
6u	U	3	0.0	3	0.0	0.118	20.6	LOS C	0.3	2.0	0.86	0.94	0.86	26.7
Approach		1535	6.8	1535	6.8	0.381	4.6	LOS A	0.3	2.0	0.01	0.53	0.01	51.1
NorthWest: Te Rapa Rd														
27	L2	8	0.0	8	0.0	0.395	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1466	7.0	1466	7.0	0.395	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	60	6.0	60	6.0	0.472	17.2	LOS C	2.3	17.2	0.81	1.05	1.19	37.3
12u	U	133	6.0	133	6.0	0.472	18.5	LOS C	2.3	17.2	0.81	1.05	1.19	39.9
Approach		1667	6.9	1667	6.9	0.472	5.9	LOS A	2.3	17.2	0.09	0.59	0.14	49.1
SouthWest: Sir Tristram Ave														
1	L2	153	6.0	153	6.0	0.101	5.2	LOS A	0.4	3.2	0.16	0.47	0.16	45.5
Approach		153	6.0	153	6.0	0.101	5.2	LOS A	0.4	3.2	0.16	0.47	0.16	45.5
All Vehicles		3355	6.8	3355	6.8	0.472	5.3	NA	2.3	17.2	0.06	0.56	0.08	49.8

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 + Development - PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	56	6.0	56	6.0	0.116	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1378	7.0	1378	7.0	0.366	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	13	0.0	13	0.0	0.141	31.9	LOS D	0.3	2.2	0.93	0.97	0.93	29.6
6u	U	4	0.0	4	0.0	0.141	33.0	LOS D	0.3	2.2	0.93	0.97	0.93	20.9
Approach		1451	6.9	1451	6.9	0.366	4.6	LOS A	0.3	2.2	0.01	0.53	0.01	51.1
NorthWest: Te Rapa Rd														
27	L2	6	0.0	6	0.0	0.500	5.7	LOS A	0.0	0.0	0.00	0.53	0.00	54.2
11	T1	1859	7.0	1859	7.0	0.500	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.4
12	R2	29	6.0	29	6.0	0.167	12.7	LOS B	0.6	4.4	0.72	0.88	0.72	39.8
12u	U	42	6.0	42	6.0	0.167	14.1	LOS B	0.6	4.4	0.72	0.88	0.72	42.0
Approach		1936	6.9	1936	6.9	0.500	4.7	LOS A	0.6	4.4	0.03	0.54	0.03	50.8
SouthWest: Sir Tristram Ave														
1	L2	145	6.0	145	6.0	0.093	4.9	LOS A	0.4	2.9	0.08	0.47	0.08	45.8
Approach		145	6.0	145	6.0	0.093	4.9	LOS A	0.4	2.9	0.08	0.47	0.08	45.8
All Vehicles		3532	6.9	3532	6.9	0.500	4.7	NA	0.6	4.4	0.02	0.53	0.02	50.7

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 + Development – Race Day Mid-Day Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] [veh/h %]		DEMAND FLOWS [Total HV] [veh/h %]		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] [veh m]		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	36	6.0	36	6.0	0.086	4.6	LOS A	0.0	0.0	0.00	0.53	0.00	43.7
5	T1	1666	7.0	1666	7.0	0.431	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	24	0.0	24	0.0	0.114	16.8	LOS C	0.3	2.0	0.82	0.92	0.82	36.3
6u	U	6	0.0	6	0.0	0.114	18.0	LOS C	0.3	2.0	0.82	0.92	0.82	28.3
Approach		1732	6.9	1732	6.9	0.431	4.5	LOS A	0.3	2.0	0.01	0.53	0.01	51.3
NorthWest: Te Rapa Rd														
27	L2	6	0.0	6	0.0	0.361	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1339	7.0	1339	7.0	0.361	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	74	6.0	74	6.0	0.452	18.1	LOS C	2.1	15.7	0.83	1.04	1.18	36.7
12u	U	94	6.0	94	6.0	0.452	20.0	LOS C	2.1	15.7	0.83	1.04	1.18	39.4
Approach		1513	6.9	1513	6.9	0.452	6.0	LOS A	2.1	15.7	0.09	0.58	0.13	49.1
SouthWest: Sir Tristram Ave														
1	L2	49	6.0	49	6.0	0.033	5.4	LOS A	0.1	1.1	0.18	0.46	0.18	45.4
Approach		49	6.0	49	6.0	0.033	5.4	LOS A	0.1	1.1	0.18	0.46	0.18	45.4
All Vehicles		3294	6.8	3294	6.8	0.452	5.2	NA	2.1	15.7	0.05	0.56	0.07	50.1

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2021 + Development – Race Day PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	4	6.0	4	6.0	0.040	4.6	LOS A	0.0	0.0	0.00	0.53	0.00	44.0
5	T1	765	7.0	765	7.0	0.201	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	3	0.0	3	0.0	0.013	10.4	LOS B	0.0	0.2	0.65	0.79	0.65	39.9
6u	U	3	0.0	3	0.0	0.013	11.6	LOS B	0.0	0.2	0.65	0.79	0.65	33.1
Approach		775	6.9	775	6.9	0.201	4.3	LOS A	0.0	0.2	0.01	0.53	0.01	51.8
NorthWest: Te Rapa Rd														
27	L2	9	0.0	9	0.0	0.247	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	912	7.0	912	7.0	0.247	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	23	6.0	23	6.0	0.087	8.2	LOS A	0.3	2.4	0.53	0.73	0.53	42.5
12u	U	34	6.0	34	6.0	0.087	9.9	LOS A	0.3	2.4	0.53	0.73	0.53	44.3
Approach		978	6.9	978	6.9	0.247	4.6	LOS A	0.3	2.4	0.03	0.54	0.03	50.9
SouthWest: Sir Tristram Ave														
1	L2	106	6.0	106	6.0	0.068	4.7	LOS A	0.3	2.2	0.08	0.47	0.08	45.8
Approach		106	6.0	106	6.0	0.068	4.7	LOS A	0.3	2.2	0.08	0.47	0.08	45.8
All Vehicles		1859	6.9	1859	6.9	0.247	4.5	NA	0.3	2.4	0.02	0.53	0.02	50.9

2031 Baseline

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 - AM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV] %	[Total veh/h	HV] %	v/c	sec		[Veh. veh	Dist] m				km/h
SouthEast: Te Rapa Rd														
4	L2	74	6.0	74	6.0	0.347	5.0	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1585	7.0	1585	7.0	0.421	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	25	0.0	25	0.0	0.208	30.3	LOS D	0.5	3.4	0.92	0.98	0.96	30.2
6u	U	3	0.0	3	0.0	0.208	31.3	LOS D	0.5	3.4	0.92	0.98	0.96	21.5
Approach		1687	6.8	1687	6.8	0.421	4.7	LOS A	0.5	3.4	0.02	0.53	0.02	50.9
NorthWest: Te Rapa Rd														
27	L2	10	0.0	10	0.0	0.482	5.7	LOS A	0.0	0.0	0.00	0.53	0.00	54.2
11	T1	1787	7.0	1787	7.0	0.482	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.4
12	R2	55	6.0	55	6.0	0.559	19.7	LOS C	3.0	22.3	0.85	1.12	1.40	35.8
12u	U	162	6.0	162	6.0	0.559	21.4	LOS C	3.0	22.3	0.85	1.12	1.40	38.7
Approach		2014	6.9	2014	6.9	0.559	6.2	LOS A	3.0	22.3	0.09	0.59	0.15	48.9
SouthWest: Sir Tristram Ave														
1	L2	50	6.0	50	6.0	0.362	7.9	LOS A	1.2	8.6	0.36	0.63	0.45	36.9
3	R2	58	6.0	58	6.0	0.362	26.4	LOS D	1.2	8.6	0.36	0.63	0.45	31.2
Approach		108	6.0	108	6.0	0.362	17.8	LOS C	1.2	8.6	0.36	0.63	0.45	34.4
All Vehicles		3809	6.8	3809	6.8	0.559	5.9	NA	3.0	22.3	0.07	0.57	0.10	49.3

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 - PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	56	6.0	56	6.0	0.162	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	43.0
5	T1	1522	7.0	1522	7.0	0.398	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	14	0.0	14	0.0	0.318	68.1	LOS F	0.7	4.7	0.98	1.00	1.02	20.5
6u	U	4	0.0	4	0.0	0.318	69.0	LOS F	0.7	4.7	0.98	1.00	1.02	12.8
Approach		1596	6.9	1596	6.9	0.398	5.0	LOS A	0.7	4.7	0.01	0.53	0.01	50.7
NorthWest: Te Rapa Rd														
27	L2	7	0.0	7	0.0	0.609	5.8	LOS A	0.0	0.0	0.00	0.52	0.00	54.1
11	T1	2266	7.0	2266	7.0	0.609	4.5	LOS A	0.0	0.0	0.00	0.52	0.00	51.3
12	R2	36	6.0	36	6.0	0.216	13.7	LOS B	0.8	6.0	0.75	0.91	0.79	39.1
12u	U	51	6.0	51	6.0	0.216	15.5	LOS C	0.8	6.0	0.75	0.91	0.79	41.5
Approach		2360	6.9	2360	6.9	0.609	4.9	LOS A	0.8	6.0	0.03	0.54	0.03	50.7
SouthWest: Sir Tristram Ave														
1	L2	59	6.0	59	6.0	0.687	23.3	LOS C	2.8	20.4	0.31	0.67	0.57	28.0
3	R2	75	6.0	75	6.0	0.687	53.1	LOS F	2.8	20.4	0.31	0.67	0.57	21.1
Approach		134	6.0	134	6.0	0.687	40.0	LOS E	2.8	20.4	0.31	0.67	0.57	24.7
All Vehicles		4090	6.9	4090	6.9	0.687	6.1	NA	2.8	20.4	0.03	0.54	0.04	49.2



Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 – Race Day Mid-Day Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	40	6.0	40	6.0	0.186	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	44.4
5	T1	1846	7.0	1846	7.0	0.456	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	27	0.0	27	0.0	0.197	24.6	LOS C	0.5	3.3	0.90	0.96	0.93	32.5
6u	U	7	0.0	7	0.0	0.197	25.7	LOS D	0.5	3.3	0.90	0.96	0.93	23.9
Approach		1920	6.9	1920	6.9	0.456	4.7	LOS A	0.5	3.3	0.02	0.53	0.02	51.1
NorthWest: Te Rapa Rd														
27	L2	7	0.0	7	0.0	0.439	5.7	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1632	7.0	1632	7.0	0.439	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	69	6.0	69	6.0	0.534	21.0	LOS C	2.6	19.5	0.87	1.10	1.35	35.2
12u	U	115	6.0	115	6.0	0.534	23.0	LOS C	2.6	19.5	0.87	1.10	1.35	38.2
Approach		1823	6.9	1823	6.9	0.534	6.2	LOS A	2.6	19.5	0.09	0.58	0.14	49.0
SouthWest: Sir Tristram Ave														
1	L2	32	6.0	32	6.0	0.033	6.0	LOS A	0.1	1.0	0.27	0.51	0.27	44.0
3	R2	2	6.0	2	6.0	0.033	21.4	LOS C	0.1	1.0	0.27	0.51	0.27	41.2
Approach		34	6.0	34	6.0	0.033	6.9	LOS A	0.1	1.0	0.27	0.51	0.27	43.9
All Vehicles		3777	6.9	3777	6.9	0.534	5.4	NA	2.6	19.5	0.05	0.56	0.08	50.0

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 – Race Day PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	4	6.0	4	6.0	0.089	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	44.7
5	T1	845	7.0	845	7.0	0.219	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	3	0.0	3	0.0	0.017	12.8	LOS B	0.0	0.3	0.73	0.87	0.73	38.4
6u	U	3	0.0	3	0.0	0.017	13.9	LOS B	0.0	0.3	0.73	0.87	0.73	31.1
Approach		855	6.9	855	6.9	0.219	4.3	LOS A	0.0	0.3	0.01	0.53	0.01	51.8
NorthWest: Te Rapa Rd														
27	L2	11	0.0	11	0.0	0.301	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1112	7.0	1112	7.0	0.301	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	9	6.0	9	6.0	0.079	8.5	LOS A	0.3	2.2	0.54	0.75	0.54	42.1
12u	U	41	6.0	41	6.0	0.079	10.2	LOS B	0.3	2.2	0.54	0.75	0.54	43.9
Approach		1173	6.9	1173	6.9	0.301	4.5	LOS A	0.3	2.2	0.02	0.54	0.02	51.0
SouthWest: Sir Tristram Ave														
1	L2	67	6.0	67	6.0	0.102	4.8	LOS A	0.4	2.7	0.08	0.51	0.08	43.6
3	R2	21	6.0	21	6.0	0.102	13.1	LOS B	0.4	2.7	0.08	0.51	0.08	40.6
Approach		88	6.0	88	6.0	0.102	6.8	LOS A	0.4	2.7	0.08	0.51	0.08	43.1
All Vehicles		2116	6.9	2116	6.9	0.301	4.5	NA	0.4	2.7	0.02	0.53	0.02	50.9

2031 Baseline + Development

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 + Development - AM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total veh/h	HV] %	[Total veh/h	HV] %	v/c	sec		[Veh. veh	Dist] m				km/h
SouthEast: Te Rapa Rd														
4	L2	74	6.0	74	6.0	0.347	5.0	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1585	7.0	1585	7.0	0.421	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	25	0.0	25	0.0	0.273	39.8	LOS E	0.6	4.4	0.95	0.99	1.00	27.0
6u	U	3	0.0	3	0.0	0.273	40.2	LOS E	0.6	4.4	0.95	0.99	1.00	18.4
Approach		1687	6.8	1687	6.8	0.421	4.9	LOS A	0.6	4.4	0.02	0.53	0.02	50.7
NorthWest: Te Rapa Rd														
27	L2	10	0.0	10	0.0	0.613	5.8	LOS A	0.0	0.0	0.00	0.52	0.00	54.1
11	T1	1787	7.0	1787	7.0	0.613	5.2	LOS A	5.0	37.3	0.27	0.38	0.27	49.7
12	R2	66	6.0	66	6.0	0.614	21.8	LOS C	3.4	25.4	0.88	1.16	1.54	35.0
12u	U	162	6.0	162	6.0	0.614	23.2	LOS C	3.4	25.4	0.88	1.16	1.54	37.9
Approach		2025	6.9	2025	6.9	0.614	7.2	LOS A	5.0	37.3	0.34	0.47	0.41	47.3
SouthWest: Sir Tristram Ave														
1	L2	153	6.0	153	6.0	0.102	5.5	LOS A	0.4	3.2	0.18	0.48	0.18	45.4
Approach		153	6.0	153	6.0	0.102	5.5	LOS A	0.4	3.2	0.18	0.48	0.18	45.4
All Vehicles		3865	6.8	3865	6.8	0.614	6.1	NA	5.0	37.3	0.19	0.50	0.23	48.6

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 + Development - PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES		DEMAND FLOWS		Deg. Satn	Aver. Delay	Level of Service	95% BACK OF QUEUE		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed
		[Total	HV]	[Total	HV]	v/c	sec		[Veh.	Dist]				
		veh/h	%	veh/h	%				veh	m				km/h
SouthEast: Te Rapa Rd														
4	L2	56	6.0	56	6.0	0.116	4.7	LOS A	0.0	0.0	0.00	0.53	0.00	42.1
5	T1	1522	7.0	1522	7.0	0.404	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	14	0.0	14	0.0	0.318	68.1	LOS F	0.7	4.7	0.98	1.00	1.02	20.5
6u	U	4	0.0	4	0.0	0.318	69.0	LOS F	0.7	4.7	0.98	1.00	1.02	12.8
Approach		1596	6.9	1596	6.9	0.404	5.0	LOS A	0.7	4.7	0.01	0.53	0.01	50.7
NorthWest: Te Rapa Rd														
27	L2	7	0.0	7	0.0	0.609	5.8	LOS A	0.0	0.0	0.00	0.52	0.00	54.1
11	T1	2266	7.0	2266	7.0	0.609	4.5	LOS A	0.0	0.0	0.00	0.52	0.00	51.3
12	R2	59	6.0	59	6.0	0.285	15.2	LOS C	1.1	8.4	0.78	0.94	0.91	38.4
12u	U	51	6.0	51	6.0	0.285	16.7	LOS C	1.1	8.4	0.78	0.94	0.91	40.9
Approach		2383	6.9	2383	6.9	0.609	5.0	LOS A	1.1	8.4	0.04	0.54	0.04	50.4
SouthWest: Sir Tristram Ave														
1	L2	145	6.0	145	6.0	0.093	5.1	LOS A	0.4	2.9	0.09	0.47	0.09	45.8
Approach		145	6.0	145	6.0	0.093	5.1	LOS A	0.4	2.9	0.09	0.47	0.09	45.8
All Vehicles		4124	6.9	4124	6.9	0.609	5.0	NA	1.1	8.4	0.03	0.54	0.03	50.3



Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 + Development – Race Day Mid-Day Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	40	6.0	40	6.0	0.096	4.6	LOS A	0.0	0.0	0.00	0.53	0.00	43.7
5	T1	1846	7.0	1846	7.0	0.478	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.8
23	R2	27	0.0	27	0.0	0.197	24.6	LOS C	0.5	3.3	0.90	0.96	0.93	32.5
6u	U	7	0.0	7	0.0	0.197	25.7	LOS D	0.5	3.3	0.90	0.96	0.93	23.9
Approach		1920	6.9	1920	6.9	0.478	4.7	LOS A	0.5	3.3	0.02	0.53	0.02	51.1
NorthWest: Te Rapa Rd														
27	L2	7	0.0	7	0.0	0.439	5.7	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1632	7.0	1632	7.0	0.439	4.4	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	86	6.0	86	6.0	0.606	23.7	LOS C	3.2	23.9	0.89	1.16	1.53	34.0
12u	U	115	6.0	115	6.0	0.606	25.7	LOS D	3.2	23.9	0.89	1.16	1.53	37.1
Approach		1840	6.9	1840	6.9	0.606	6.6	LOS A	3.2	23.9	0.10	0.60	0.17	48.5
SouthWest: Sir Tristram Ave														
1	L2	49	6.0	49	6.0	0.033	5.7	LOS A	0.1	1.1	0.20	0.47	0.20	45.4
Approach		49	6.0	49	6.0	0.033	5.7	LOS A	0.1	1.1	0.20	0.47	0.20	45.4
All Vehicles		3809	6.8	3809	6.8	0.606	5.6	NA	3.2	23.9	0.06	0.56	0.09	49.7

Site: 3 [Te Rapa Rd / Sir Tristram Ave – Baseline 2031 + Development – Race Day PM Peak]

Vehicle Movement Performance														
Mov ID	Turn	INPUT VOLUMES [Total HV] veh/h %		DEMAND FLOWS [Total HV] veh/h %		Deg. Satn v/c	Aver. Delay sec	Level of Service	95% BACK OF QUEUE [Veh. Dist] veh m		Prop. Que	Effective Stop Rate	Aver. No. Cycles	Aver. Speed km/h
SouthEast: Te Rapa Rd														
4	L2	4	6.0	4	6.0	0.045	4.6	LOS A	0.0	0.0	0.00	0.53	0.00	44.1
5	T1	845	7.0	845	7.0	0.222	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.9
23	R2	3	0.0	3	0.0	0.017	12.8	LOS B	0.0	0.3	0.73	0.87	0.73	38.4
6u	U	3	0.0	3	0.0	0.017	13.9	LOS B	0.0	0.3	0.73	0.87	0.73	31.1
Approach		855	6.9	855	6.9	0.222	4.3	LOS A	0.0	0.3	0.01	0.53	0.01	51.8
NorthWest: Te Rapa Rd														
27	L2	11	0.0	11	0.0	0.301	5.6	LOS A	0.0	0.0	0.00	0.53	0.00	54.3
11	T1	1112	7.0	1112	7.0	0.301	4.3	LOS A	0.0	0.0	0.00	0.53	0.00	51.5
12	R2	25	6.0	25	6.0	0.106	8.6	LOS A	0.4	2.9	0.55	0.77	0.55	42.2
12u	U	41	6.0	41	6.0	0.106	10.4	LOS B	0.4	2.9	0.55	0.77	0.55	44.0
Approach		1189	6.9	1189	6.9	0.301	4.6	LOS A	0.4	2.9	0.03	0.54	0.03	50.9
SouthWest: Sir Tristram Ave														
1	L2	106	6.0	106	6.0	0.068	4.7	LOS A	0.3	2.2	0.09	0.47	0.09	45.7
Approach		106	6.0	106	6.0	0.068	4.7	LOS A	0.3	2.2	0.09	0.47	0.09	45.7
All Vehicles		2150	6.9	2150	6.9	0.301	4.5	NA	0.4	2.9	0.02	0.53	0.02	50.9