

Appendix J

Peak Hour Arterial Analysis Worksheets

Arterial Level of Service: EB Aero Drive

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Convoy Street	II	40	3.1	46.6	49.7	0.03	1.9	F
Kearny Villa Road	II	40	18.7	38.8	57.5	0.16	10.2	F
Aero Court	II	40	17.1	30.6	47.7	0.15	11.2	F
Afton Road	II	40	25.5	24.2	49.7	0.23	16.8	E
Broadstone Driveway	II	40	13.5	21.3	34.8	0.12	12.2	F
Sandrock Road	II	40	15.3	38.7	54.0	0.13	8.9	F
Ruffin Road	II	45	48.7	35.9	84.6	0.61	25.9	C
W Canyon Avenue	II	45	39.5	26.8	66.3	0.43	23.6	C
Ruffin Road	II	45	21.4	43.8	65.2	0.20	10.9	F
Murphy Canyon Road	II	45	18.1	33.6	51.7	0.17	11.5	F
I-15 SB On-Ramp	II	45	11.5	27.0	38.5	0.11	9.9	F
I-15 NB On-Off Ramp	II	45	15.8	40.0	55.8	0.14	9.3	F
Total	II		248.2	407.3	655.5	2.48	13.6	E

Arterial Level of Service: WB Aero Drive

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB On-Off Ramp	II	45	16.1	18.0	34.1	0.15	15.6	E
I-15 SB Off-Ramp	II	45	15.8	25.5	41.3	0.14	12.6	F
Murphy Canyon Road	II	45	11.5	50.2	61.7	0.11	6.2	F
Ruffin Road	II	45	18.1	54.5	72.6	0.17	8.2	F
Ruffin Road	II	45	21.4	9.9	31.3	0.20	22.6	C
Ruffin Road	II	45	39.5	17.1	56.6	0.43	27.6	C
John J Montgomery Dr	II	45	48.7	55.0	103.7	0.61	21.1	D
John J Montgomery Dr	II	40	15.3	16.9	32.2	0.13	14.9	E
Glenn H Curtiss Road	II	40	13.5	38.7	52.2	0.12	8.1	F
Aero Court	II	40	25.5	27.9	53.4	0.23	15.7	E
Kearny Villa Road	II	40	17.1	49.7	66.8	0.15	8.0	F
Convoy Street	II	40	18.7	41.1	59.8	0.16	9.8	F
Total	II		261.2	404.5	665.7	2.60	14.0	E

Arterial Level of Service: EB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Kearny Villa Road	II	35	32.0	45.4	77.4	0.27	12.5	F
Pennisi Driveway	II	40	27.0	9.7	36.7	0.25	24.0	C
Ponderosa Avenue	II	40	46.9	36.4	83.3	0.50	21.8	D
Ruffin Road	II	40	28.4	22.4	50.8	0.28	19.8	D
Viewridge Avenue	II	40	18.3	12.3	30.6	0.16	18.7	D
I-15 SB Off-Ramp	II	40	37.1	6.1	43.2	0.39	32.2	B
Total	II		189.7	132.3	322.0	1.84	20.6	D

Arterial Level of Service: WB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 SB Off-Ramp	II	40	73.5	12.4	85.9	0.82	34.2	B
Viewridge Avenue	II	40	37.1	112.2	149.3	0.39	9.3	F
Ruffin Road	II	40	18.3	30.2	48.5	0.16	11.8	F
Ponderosa Avenue	II	40	28.4	11.5	39.9	0.28	25.2	C
Pennisi Driveway	II	40	46.9	26.6	73.5	0.50	24.7	C
Kearny Villa Road	II	40	27.0	35.6	62.6	0.25	14.1	E
Mercury Street	II	35	32.0	48.2	80.2	0.27	12.1	F
Total	II		263.2	276.7	539.9	2.66	17.7	D

Arterial Level of Service: EB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB Off-Ramp	II	40	8.8	3.5	12.3	0.08	22.3	C
Total	II		8.8	3.5	12.3	0.08	22.3	C

Arterial Level of Service: WB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB & SR-52 EB O	I	50	12.7	19.5	32.2	0.13	14.2	F
SR-52 EB & I-15 SB O	I	40	8.8	14.3	23.1	0.08	11.9	F
Total	I		21.5	33.8	55.3	0.20	13.2	F

Arterial Level of Service: EB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 SB On-Off Ramp	II	45	66.9	0.0	66.9	0.84	45.0	A
I-805 NB Off-Ramp	II	45	23.6	17.2	40.8	0.22	19.1	D
Total	II		90.5	17.2	107.7	1.05	35.2	A

Arterial Level of Service: WB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 SB Off-Ramp	II	45	23.6	12.6	36.2	0.22	21.6	D
Total	II		23.6	12.6	36.2	0.22	21.6	D

Arterial Level of Service: EB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 NB Off-Ramp	III	35	47.8	10.4	58.2	0.40	24.6	B
Total	III		47.8	10.4	58.2	0.40	24.6	B

Arterial Level of Service: EB Aero Drive

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Convoy Street	II	30	4.1	59.2	63.3	0.03	1.5	F
Kearny Villa Road	II	40	18.7	38.4	57.1	0.16	10.2	F
Aero Court	II	40	17.1	133.7	150.8	0.15	3.5	F
Afton Road	II	40	25.5	204.4	229.9	0.23	3.6	F
Broadstone Driveway	II	40	13.5	30.5	44.0	0.12	9.6	F
Sandrock Road	II	40	15.3	53.6	68.9	0.13	7.0	F
Ruffin Road	II	45	48.7	25.4	74.1	0.61	29.6	B
W Canyon Avenue	II	45	39.5	31.9	71.4	0.43	21.9	D
Ruffin Road	II	45	21.4	31.9	53.3	0.20	13.3	E
Murphy Canyon Road	II	45	18.1	40.8	58.9	0.17	10.1	F
I-15 SB On-Ramp	II	45	11.5	31.6	43.1	0.11	8.8	F
I-15 NB On-Off Ramp	II	45	15.8	30.4	46.2	0.14	11.3	F
Total	II		249.2	711.8	961.0	2.48	9.3	F

Arterial Level of Service: WB Aero Drive

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB On-Off Ramp	II	45	16.1	18.2	34.3	0.15	15.5	E
I-15 SB Off-Ramp	II	45	15.8	13.7	29.5	0.14	17.7	D
Murphy Canyon Road	II	45	11.5	30.8	42.3	0.11	9.0	F
Ruffin Road	II	45	18.1	56.2	74.3	0.17	8.0	F
Ruffin Road	II	45	21.4	11.4	32.8	0.20	21.6	D
Ruffin Road	II	45	39.5	10.9	50.4	0.43	31.0	B
John J Montgomery Dr	II	45	48.7	45.5	94.2	0.61	23.2	C
John J Montgomery Dr	II	40	15.3	13.2	28.5	0.13	16.8	E
Glenn H Curtiss Road	II	40	13.5	23.6	37.1	0.12	11.4	F
Aero Court	II	40	25.5	18.9	44.4	0.23	18.8	D
Kearny Villa Road	II	40	17.1	30.3	47.4	0.15	11.3	F
Convoy Street	II	40	18.7	70.6	89.3	0.16	6.6	F
Total	II		261.2	343.3	604.5	2.60	15.5	E

Arterial Level of Service: EB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Kearny Villa Road	II	35	32.0	33.9	65.9	0.27	14.7	E
Pennisi Driveway	II	40	27.0	12.1	39.1	0.25	22.6	C
Ponderosa Avenue	II	40	46.5	28.1	74.6	0.50	24.1	C
Ruffin Road	II	40	28.4	41.7	70.1	0.28	14.3	E
Viewridge Avenue	II	40	18.3	48.6	66.9	0.16	8.6	F
I-15 SB Off-Ramp	II	40	37.1	38.9	76.0	0.39	18.3	D
Total	II		189.3	203.3	392.6	1.84	16.9	E

Arterial Level of Service: WB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 SB Off-Ramp	II	40	73.5	10.1	83.6	0.82	35.2	A
Viewridge Avenue	II	40	37.1	28.6	65.7	0.39	21.2	D
Ruffin Road	II	40	18.3	30.2	48.5	0.16	11.8	F
Ponderosa Avenue	II	40	28.4	16.4	44.8	0.28	22.4	C
Pennisi Driveway	II	40	46.5	25.7	72.2	0.50	24.9	C
Kearny Villa Road	II	40	27.0	40.9	67.9	0.25	13.0	F
Mercury Street	II	35	32.0	44.6	76.6	0.27	12.7	F
Total	II		262.8	196.5	459.3	2.66	20.8	D

Arterial Level of Service: EB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB Off-Ramp	II	40	8.8	7.1	15.9	0.08	17.3	D
Total	II		8.8	7.1	15.9	0.08	17.3	D

Arterial Level of Service: WB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-15 NB & SR-52 EB O	I	50	12.7	4.9	17.6	0.13	26.0	D
SR-52 EB & I-15 SB O	I	40	8.8	10.3	19.1	0.08	14.4	F
Total	I		21.5	15.2	36.7	0.20	19.9	E

Arterial Level of Service: EB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 SB On-Off Ramp	II	45	66.9	0.0	66.9	0.84	45.0	A
I-805 NB Off-Ramp	II	45	23.6	17.0	40.6	0.22	19.2	D
Total	II		90.5	17.0	107.5	1.05	35.3	A

Arterial Level of Service: WB Balboa Avenue

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 SB Off-Ramp	II	45	23.6	19.4	43.0	0.22	18.2	D
Total	II		23.6	19.4	43.0	0.22	18.2	D

Arterial Level of Service: EB Clairemont Mesa Blvd

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
I-805 NB Off-Ramp	III	35	47.8	5.9	53.7	0.40	26.7	B
Total	III		47.8	5.9	53.7	0.40	26.7	B

Arterial Level of Service: NB Convoy Street

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Aero Drive	III	35	8.6	252.5	261.1	0.06	0.8	F
Kearny Mesa Road	III	35	21.7	34.0	55.7	0.17	11.0	E
Othello Avenue	III	35	33.8	25.7	59.5	0.28	17.0	D
Armour Street	III	35	23.4	54.1	77.5	0.20	9.1	F
Balboa Avenue	III	35	16.2	55.3	71.5	0.12	6.0	F
Engineer Road	III	35	44.2	41.1	85.3	0.37	15.6	D
Ronson Road	III	35	19.7	26.0	45.7	0.15	12.1	E
Clairemont Mesa Blvd	III	35	30.7	52.5	83.2	0.26	11.1	E
Convoy Court	III	35	17.7	36.9	54.6	0.14	9.1	F
Copley Park Place	III	35	13.6	7.2	20.8	0.10	17.4	D
SR-52 EB On-Ramp	III	35	10.1	51.5	61.6	0.07	4.1	F
SR-52 WB Off-Ramp	III	35	13.8	36.3	50.1	0.10	7.4	F
Total	III		253.5	673.1	926.6	2.02	7.8	F

Arterial Level of Service: SB Convoy Street

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR-52 WB On-Ramp	III	35	6.8	57.6	64.4	0.05	2.6	F
SR-52 EB Off-Ramp	III	35	13.8	31.0	44.8	0.10	8.2	F
Copley Park Place	III	35	10.1	22.8	32.9	0.07	7.6	F
Convoy Court	III	35	13.6	43.8	57.4	0.10	6.3	F
Clairemont Mesa Blvd	III	35	17.7	37.6	55.3	0.14	9.0	F
Ronson Road	III	35	30.7	20.7	51.4	0.26	17.9	D
Engineer Road	III	35	19.7	26.7	46.4	0.15	12.0	E
Balboa Avenue	III	35	44.2	50.7	94.9	0.37	14.0	E
Armour Street	III	35	16.2	29.6	45.8	0.12	9.4	F
Othello Avenue	III	35	23.4	21.0	44.4	0.20	15.8	D
Ostrow Street	III	35	33.8	18.7	52.5	0.28	19.3	C
Aero Drive	III	35	21.7	39.6	61.3	0.17	10.0	F
Total	III		251.7	399.8	651.5	2.00	11.1	E

Arterial Level of Service: NB Ruffin Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Granite Ridge Drive	II	45	2.7	13.6	16.3	0.02	5.4	F
Aero Drive	II	45	12.2	68.6	80.8	0.11	5.0	F
Sky Park Court	II	45	50.8	20.8	71.6	0.63	31.9	B
Ridgehaven Court	II	45	26.5	19.3	45.8	0.26	20.1	D
Balboa Avenue	II	45	22.4	38.9	61.3	0.21	12.1	F
Spectrum Center Blvd	II	45	22.3	28.3	50.6	0.20	14.6	E
Ruffin Court	II	45	24.8	26.1	50.9	0.24	16.9	E
Clairemont Mesa Blvd	II	45	20.4	48.6	69.0	0.19	9.8	F
Farnham Street	II	45	10.5	25.2	35.7	0.10	9.8	F
Hazard Way	II	45	20.9	16.4	37.3	0.19	18.5	D
Chesapeake Drive	II	45	14.8	21.5	36.3	0.14	13.5	E
Waxie Way	II	45	16.7	21.1	37.8	0.15	14.6	E
SR-52 EB On-Ramp	II	45	8.6	34.6	43.2	0.08	6.6	F
SR-52 WB On-Off Ramp	II	45	16.7	5.7	22.4	0.15	24.6	C
Total	II		270.3	388.7	659.0	2.67	14.6	E

Arterial Level of Service: SB Ruffin Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR-52 WB On-Off Ramp	II	45	8.3	34.8	43.1	0.08	6.3	F
SR-52 EB Off-Ramp	II	45	16.7	23.3	40.0	0.15	13.8	E
Kearny Villa Road	II	45	8.6	53.0	61.6	0.08	4.6	F
Chesapeake Drive	II	45	16.7	37.1	53.8	0.15	10.3	F
Hazard Way	II	45	14.8	26.7	41.5	0.14	11.8	F
Farnham Street	II	45	20.9	26.4	47.3	0.19	14.6	E
Clairemont Mesa Blvd	II	45	10.5	52.2	62.7	0.10	5.6	F
Lightwave Avenue	II	45	20.4	26.9	47.3	0.19	14.2	E
Spectrum Center Blvd	II	45	24.8	20.9	45.7	0.24	18.8	D
Balboa Avenue	II	45	22.3	36.0	58.3	0.20	12.7	F
Ridgehaven Court	II	45	22.4	38.5	60.9	0.21	12.1	F
Sky Park Court	II	45	26.5	22.8	49.3	0.26	18.6	D
Aero Drive	II	45	50.8	53.9	104.7	0.63	21.8	D
Granite Ridge Drive	II	45	12.2	7.5	19.7	0.11	20.5	D
Total	II		275.9	460.0	735.9	2.72	13.3	E

Arterial Level of Service: NB Convoy Street

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Aero Drive	III	35	8.6	44.0	52.6	0.06	4.1	F
Kearny Mesa Road	III	35	21.7	30.1	51.8	0.17	11.8	E
Othello Avenue	III	35	33.8	18.0	51.8	0.28	19.6	C
Armour Street	III	35	23.4	106.1	129.5	0.20	5.4	F
Balboa Avenue	III	35	16.2	65.3	81.5	0.12	5.3	F
Engineer Road	III	35	44.2	23.5	67.7	0.37	19.6	C
Ronson Road	III	35	19.7	24.3	44.0	0.15	12.6	E
Clairemont Mesa Blvd	III	35	30.7	29.4	60.1	0.26	15.3	D
Convoy Court	III	35	17.7	33.4	51.1	0.14	9.7	F
Copley Park Place	III	35	13.6	10.9	24.5	0.10	14.7	D
SR-52 EB On-Ramp	III	35	10.1	250.4	260.5	0.07	1.0	F
SR-52 WB Off-Ramp	III	35	13.8	45.1	58.9	0.10	6.3	F
Total	III		253.5	680.5	934.0	2.02	7.8	F

Arterial Level of Service: SB Convoy Street

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR-52 WB On-Ramp	III	35	6.8	51.5	58.3	0.05	2.9	F
SR-52 EB Off-Ramp	III	35	13.8	52.1	65.9	0.10	5.6	F
Copley Park Place	III	35	10.1	20.4	30.5	0.07	8.2	F
Convoy Court	III	35	13.6	179.9	193.5	0.10	1.9	F
Clairemont Mesa Blvd	III	35	17.7	61.8	79.5	0.14	6.3	F
Ronson Road	III	35	30.7	32.7	63.4	0.26	14.5	D
Engineer Road	III	35	19.7	40.3	60.0	0.15	9.2	F
Balboa Avenue	III	35	44.2	58.1	102.3	0.37	13.0	E
Armour Street	III	35	16.2	39.3	55.5	0.12	7.8	F
Othello Avenue	III	35	23.4	35.1	58.5	0.20	12.0	E
Ostrow Street	III	35	33.8	33.8	67.6	0.28	15.0	D
Aero Drive	III	35	21.7	32.9	54.6	0.17	11.2	E
Total	III		251.7	637.9	889.6	2.00	8.1	F

Arterial Level of Service: NB Ruffin Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Granite Ridge Drive	II	45	2.7	7.3	10.0	0.02	8.9	F
Aero Drive	II	45	12.2	113.9	126.1	0.11	3.2	F
Sky Park Court	II	45	50.8	10.0	60.8	0.63	37.6	A
Ridgehaven Court	II	45	26.5	51.6	78.1	0.26	11.8	F
Balboa Avenue	II	45	22.4	43.3	65.7	0.21	11.3	F
Spectrum Center Blvd	II	45	22.3	19.9	42.2	0.20	17.5	D
Ruffin Court	II	45	24.8	24.1	48.9	0.24	17.6	D
Clairemont Mesa Blvd	II	45	20.4	37.6	58.0	0.19	11.6	F
Farnham Street	II	45	10.5	21.3	31.8	0.10	11.0	F
Hazard Way	II	45	20.9	17.5	38.4	0.19	18.0	D
Chesapeake Drive	II	45	14.8	26.7	41.5	0.14	11.8	F
Waxie Way	II	45	16.7	37.8	54.5	0.15	10.1	F
SR-52 EB On-Ramp	II	45	8.6	12.0	20.6	0.08	13.8	E
SR-52 WB On-Off Ramp	II	45	16.7	6.1	22.8	0.15	24.1	C
Total	II		270.3	429.1	699.4	2.67	13.8	E

Arterial Level of Service: SB Ruffin Road

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
SR-52 WB On-Off Ramp	II	45	8.3	25.4	33.7	0.08	8.1	F
SR-52 EB Off-Ramp	II	45	16.7	4.7	21.4	0.15	25.7	C
Kearny Villa Road	II	45	8.6	26.6	35.2	0.08	8.1	F
Chesapeake Drive	II	45	16.7	30.0	46.7	0.15	11.8	F
Hazard Way	II	45	14.8	36.9	51.7	0.14	9.5	F
Farnham Street	II	45	20.9	46.1	67.0	0.19	10.3	F
Clairemont Mesa Blvd	II	45	10.5	46.1	56.6	0.10	6.2	F
Lightwave Avenue	II	45	20.4	33.5	53.9	0.19	12.5	F
Spectrum Center Blvd	II	45	24.8	41.3	66.1	0.24	13.0	F
Balboa Avenue	II	45	22.3	52.6	74.9	0.20	9.8	F
Ridgehaven Court	II	45	22.4	20.4	42.8	0.21	17.3	D
Sky Park Court	II	45	26.5	34.3	60.8	0.26	15.1	E
Aero Drive	II	45	50.8	111.8	162.6	0.63	14.1	E
Granite Ridge Drive	II	45	12.2	26.1	38.3	0.11	10.5	F
Total	II		275.9	535.8	811.7	2.72	12.1	F