

APPENDIX A: Level of Service F Segments

Appendix A-1: Level of Service F Segments—p.m. Peak Period

CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F (Years)	Vehicle Hrs of Delay	Comments	LOS Results		Run details	
	From	To						2010	2012		
1	I-80 - EB	Toll Plaza	I-580 SB Merge	Oakland	1.15	'93-'02, '06, '08	275	Construction	C 54.2	F(30) 25.4	Tue 2/28 4:34 Thur 3/1 4:31 Thur 3/22 5:02 Wed 5/9 4:17 Tue 5/15 5:28 Wed 5/16 4:22 Wed 5/16 5:10
2	I-80 - EB	I-80/I-580 (Merge)	Powell	Emeryville - Berkeley	0.79	'91-'95, '97-'06, '08, '10	836	Grandfathered	F(20) 16.6	F(20) 13.0	Same As Above
3	I-80 - EB	Powell	Ashby	Emeryville - Berkeley	0.67	'91-'95, '97-'06, '08, '10	778	Grandfathered	F(20) 11.68	F(20) 12.3	Same As Above
4	I-80 - EB	Ashby	University	Emeryville - Berkeley	1.34	'91-'95, '97-'08	304		E 31.7	F(30) 25.7	Same As Above
5	I-80 - EB	Jct I-580	Central	Berkeley-Albany	1.12	'91-'92, '96-'97, '02, '06-'08	186		E 39.1	F(30) 27.7	Same As Above
6	I-80 - WB	Jct I-580	University	Berkeley-Albany	1.49	'10	206	Construction	F(30) 23.7	F(30) 28.7	Tue 2/28 4:01 Thur 3/1 4:01 Thur 3/22 4:40 Wed 5/9 4:03 Tue 5/15 5:07 Wed 5/16 4:43
7	I-80 - WB	University	Ashby	Emeryville - Berkeley	1.36	'91-'92, '94-'08, '10	428	Grandfathered /Construction	F(30) 24.7	F(30) 23.3	Same As Above
8	I-80 - WB	Ashby	Powell	Emeryville - Berkeley	0.64	'91-'92, '94-'08, '10	508	Grandfathered /Construction	F(20) 16.6	F(20) 15.5	Same As Above
9	I-80 - WB	Powell	I-80/I-580 Split	Emeryville - Berkeley	0.42	'91-'92, '94-'06	66	Construction	E 31.7	F(30) 28.0	Same As Above
10	I-580 - EB	I-680	Hopyard	Pleasanton	0.76	'98-'02, '06-'08, '10	160		F(10) 8.7	F(30) 24.6	Thu 3/8 5:20 Thu 3/22 5:16 Wed 4/25 5:46 Thu 4/26 4:27 Wed 5/9 4:01 Thu 5/31 4:02 Thu 5/31 4:53 Wed 6/6 4:37

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CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F (Years)	Vehicle Hrs of Delay	Comments	LOS Results		Run details	
	From	To						2010	2012		
11	I-580 - EB	Hopyard	Santa Rita	Pleasanton	1.96	'98-'02, '06-'08, '10	330		F(20) 10.8	F(30) 26.2	Same As Above
12	I-580 - EB	1st St	Greenville	Livermore - County	1.98		195	New LOS F	B 56.0	F(30) 29.3	Wed 2/29 4:16 Thu 3/1 5:09 Wed 3/21 4:37 Thu 3/22 5:32 Tue 4/24 4:25 Wed 5/23 4:37 Thu 5/31 4:02 Thu 5/31 4:53 Wed 6/6 4:37
13	I-580 - EB	Greenville	N. Flynn	County	1.50		284	New LOS F	E 35.4	F(30) 25.4	Same As Above
14	I-580 - EB	I-80	I-980	Oakland	1.24	'91-'92, '08-'10	551	Grandfathered	F(30) 25.7	F(20) 18.6	Tue 3/20 4:02 Tue 3/20 5:11 Thur 3/29 5:40 Wed 5/9 4:46 Thur 5/10 4:24 Thur 5/31 5:14
15	I-580 - WB	SH-24 On-ramp	I-80/580 Split	Oakland	0.69	'06	506	Construction	B 56.7	F(20) 14.2	Tue 3/20 4:35 Wed 3/21 4:00 Thur 3/29 4:33 Wed 5/9 5:32 Thur 5/10 5:18 Thur 5/24 4:01
16	I-680 - NB	Rt 262/ Mission	Durham Rd	Fremont	1.34	'08-'10	376		F(20) 16.5	F(30) 20.1	Tue 2/28 4:04 Wed 2/29 4:44 Thur 3/1 4:30 Wed 3/7 5:35 Thur 3/8 4:50 Thur 3/8 5:27 Thur 3/22 4:31
17	I-680 - NB	Durham Rd	Washington Blvd	Fremont	1.54	'08-'10	290		F(30) 20.4	F(30) 23.4	Same As Above
18	I-680 - NB	Vargas Rd	Andrade Rd	County	2.64	'10	210		F(30) 28.1	F(30) 28.9	Same As Above
19	I-880 - NB	Alvarado-Niles	Tennyson	Union City - Hayward	2.65	'00-'02, '06-'08, '10	557		F(20) 17.7	F(30) 24.7	Wed 2/29 4:43 Thur 3/1 4:03 Wed 3/7 4:03 Tue 3/20 4:50 Wed 3/21 4:04 Tue 5/8 5:17 Wed 5/9 4:48 Thur 5/17 4:16

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CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F (Years)	Vehicle Hrs of Delay	Comments	LOS Results		Run details
	From	To						2010	2012	
20	I-880 - NB	Tennyson	SR 92	Hayward	1.14	'91-'92	473	E 37.7	F(20) 19.2	Wed 2/29 4:43 Thur 3/1 4:03 Tue 3/6 4:33 Tue 3/6 5:47 Wed 3/7 4:03 Thur 5/17 4:16 Wed 5/23 5:19
21	I-880 - NB	SR 92	A St	Hayward	1.52	'91-'92	283	E 38.4	F(30) 25.5	Same As Above
22	I-880 - NB	I-880/I-80 Split	I-880/I-80 Merge	Oakland	1.40		922	New LOS F E 31.5	F(20) 15.2	Tue 3/6 4:43 Wed 3/7 4:01 Tue 3/20 5:27 Wed 3/21 4:00 Thur 5/17 4:55 Wed 5/23 5:19
23	SR 13 - NB	Moraga Ave	Hiller (Sig)	Oakland	1.57	'06-'10	335	Construction F(30) 24.2	F(20) 18.9	Wed 2/29 4:38 Wed 3/21 5:09 Thur 3/22 4:01 Tue 5/8 4:24 Tue 5/22 4:12
24	SR 13 - SB	Redwood	Jct I-580 (EB Merge)	Oakland	0.89	'08-'10	278	F(20) 12.5	F(20) 15.6	Wed 2/29 4:07 Wed 3/21 4:37 Tue 5/8 4:48 Tue 5/15 4:02 Tue 5/22 4:04 Thur 6/7 5:09
25	SR 24 - EB	Jct I-580 (On-ramp)	Broadway / SR 13	Oakland	2.08	'91-'97, '02, '06, '08, '10	1240	Grandfathered/ Construction F(20) 15.8	F(20) 16.0	Wed 3/7 5:09 Thur 3/8 5:15 Wed 3/21 4:34 Wed 3/21 5:02 Tue 5/8 4:16 Tue 5/8 5:36 Thur 6/7 4:01
26	SR 24 - EB	Broadway / SR 13	Caldecott (Entrance)	Oakland	1.41	'91-'97, '02, '06, '08, '10	1054	Grandfathered/ Construction F(20) 14.5	F(20) 14.1	Same As Above
27	SR 84 - EB	Newark Blvd/ Ardenwood	I-880 NB (Off-ramp)	Newark	0.97	'08, '10	413	F(30) 26.9	F(20) 16.4	Tue 2/28 4:27 Thur 3/1 5:19 Tue 3/6 5:03 Wed 3/7 5:36 Thur 3/22 4:37 Wed 5/16 5:17

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	CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F (Years)	Vehicle Hrs of Delay	Comments	LOS Results		Run details	
		From	To						2010	2012		
28	A Street – EB	Western	SR 238	Hayward	0.53			New LOS F/ Construction	E 7.6	F 5.2	Tue 3/27 5:13 Tue 5/22 5:19 Thur 5/24 4:10	Tue 3/27 5:50 Wed 5/23 4:16 Wed 5/30 4:01
29	Hesperian – NB	Grant	Lewelling	County	0.28	'00, '04, '06-'10		Construction	F 8.1	F 6.9	Wed 3/7 4:02 Wed 3/21 4:58 Thur 5/10 4:34 Tue 5/15 5:05	Thu 3/8 4:03 Thu 3/22 4:02 Tue 5/15 4:02
30	Hesperian – SB	Springlake	Lewelling	County	0.40	'00-'10		Construction	F 8.1	F 7.9	Tue 3/6 5:39 Wed 3/21 4:23 Thur 5/10 4:02 Tue 6/5 4:46	Wed 3/7 5:21 Wed 3/21 5:29 Thur 5/10 5:07
31	Hesperian – SB	SH 92 - WB	Tennyson	Hayward	0.47	'08-'10		Construction	F 11.0	F 11.7	Wed 3/7 5:21 Wed 3/21 5:29 Thur 5/10 5:07	Wed 3/21 4:23 Thur 5/10 4:02
32	University – WB	Sacramento	San Pablo	Berkeley	0.56			New LOS F	E 12.6	F 9.9	Wed 4/18 5:09 Wed 5/2 4:37 Thur 5/17 5:32 Tue 6/5 4:02	Tue 4/24 4:37 Thur 5/17 5:10 Tue 5/22 4:46
33	SR 84 - EB	Sunol Rd	Pleasanton -Sunol Rd	Fremont	0.53	'10			F 4.7	F 4.8	Tue 2/28 5:30 Wed 3/21 4:43 Thur 5/10 4:05	Tue 3/6 4:06 Thur 3/22 4:01 Thur 5/10 5:04
34	SR 84 - EB	SR 84 (Off-ramp)/I-680	Vallecitos Ln	County	1.07	'02-'04, '06-'10			F 11.7	F 13.6	Tue 2/28 4:38 Thur 3/1 4:37 Tue 3/20 4:57	Wed 2/29 5:17 Tue 3/6 4:48 Tue 3/20 5:40
35	SR 92 - EB	I-880	Mission	Hayward	1.59	'91-'92		Construction	D 15.4	F 6.9	Wed 2/29 5:22 Thur 3/8 5:07 Thur 3/29 4:22	Tue 3/6 5:43 Wed 3/28 5:07 Tue 5/22 5:30

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CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F (Years)	Vehicle Hrs of Delay	Comments	LOS Results		Run details	
	From	To						2010	2012		
										Wed 6/6 4:43	
36	SR 123 San Pablo – NB	Allston	University	Berkeley	0.20	'98, '00, '06, '10		F 5.8	F 5.4	Tue 4/17 4:36 Wed 5/23 4:00 Wed 5/30 4:46	Wed 5/16 4:56 Wed 5/30 4:00 Thur 5/31 4:01
37	SR 185 (14th) – NB	46th St.	42nd	Oakland	0.26	'08-'10	Construction	F 7.3	F 8.7	Tue 3/6 3:59 Wed 5/9 4:08 Wed 5/30 4:27 Wed 6/6 5:19	Wed 3/7 4:53 Wed 5/9 5:17 Wed 5/30 5:25 Thur 6/7 4:31
38	SR 238 (Foothill) – NB	Jackson	City Center	Hayward	0.62		New LOS F/ Construction	C 17.3	F 6.4	Wed 3/7 4:01 Wed 5/23 5:08 Tue 6/5 4:40 Thur 6/7 4:12	Thur 3/22 4:57 Wed 5/30 4:26 Wed 6/6 4:16
39	SR 13/ SR 24 Interchange	SR-13 NB	SR-24 EB	Oakland	0.32	'92-'10	145 Grandfathered/C onstruction	F 9.8	F 7.6	Tue 3/27 4:03 Tue 6/5 5:52	Tue 3/27 4:13 Thur 6/7 4:18

Notes:

- Vehicle Hours of delay estimation assumes a congested speed of 35 mph or less and freeway lane capacity of 2,200 vplph consistent with Caltrans' and MTC's assumptions.

Appendix A-2: Level of Service F Segments—a.m. Peak Period

CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F Delay	Vehicle Hrs of Delay	Comments	LOS Results		Run details		
	From	To						2010	2012			
1	I-80 - WB	Central	Jct I-580	Berkeley-Albany	0.70	'08	239	Construction	D 44.1	F(30) 22.7	Thur 3/22 7:02 Wed 4/25 7:02 Wed 5/16 7:01 Thur 5/17 7:30	Thur 3/22 7:58 Wed 4/25 7:47 Wed 5/16 7:44
2	I-80 - WB	Jct I-580	University	Berkeley-Albany	1.49	'08	382	Construction	E 37.0	F(30) 24.9	Same As Above	
3	I-80 - WB	I-80/580 Split	Toll Plaza	Oakland	1.20	'97-'10	3675	Construction	F(10) 8.7	F(10) 6.0	Same As Above	
4	I-80 - WB	Toll Plaza	SF County	Oakland	2.00	'97-'10	1211	Construction	F(10) 14.4	F(20) 17.8	Same As Above	
5	I-238 - WB	I-580	I-880	County - San Leandro	1.60	'97-'08	411		E 35.0	F(30) 20.8	Thur 3/8 8:00 Thur 3/22 8:47 Wed 5/2 7:11 Wed 5/9 7:31	Thur 3/22 8:24 Thur 3/29 7:18 Wed 5/2 7:37 Tue 6/5 7:02
6	I-580 - WB	Greenville	1st St	Livermore - County	2.30	'04, '08, '10	542		E 34.0	F(30) 23.8	Thur 3/1 7:27 Tue 3/20 8:48 Wed 4/25 7:02 Thur 5/3 8:12 Thur 6/7 7:48	Tue 3/6 8:34 Wed 3/21 7:23 Thur 5/3 7:18 Tue 6/5 8:02
7	I-580 - WB	1st St	Portola	Livermore	2.52	'08, '10	721		E 34.0	F(30) 22.3	Same As Above	
8	I-580 - WB	SH 13 Off-ramp	Fruitvale	Oakland	2.36	'08-'10	384		F(20) 21.9	F(30) 26.4	Tue 3/20 7:28 Thur 4/26 7:01 Thur 5/17 7:03	Tue 3/20 8:32 Wed 5/2 7:52 Wed 6/6 7:32
9	I-580 - WB	SH-24 On-ramp	I-80/580 Split	Oakland	0.69	'02, '06-'10	371	Construction	F(20) 12.9	F(20) 16.9	Tue 3/20 7:36 Thur 4/26 7:09 Thur 5/10 8:06 Wed 6/6 7:40	Tue 3/20 8:40 Wed 5/2 8:01 Thur 5/17 7:10

Appendix A-2: Level of Service F Segments—a.m. Peak Period

CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F Delay	Vehicle Hrs of Delay	Comments	LOS Results		Run details		
	From	To						2010	2012			
10	I-580 - EB	Central	I-80 Jct	Albany	0.77		110	Construction	E 32.2	F(30) 27.3	Tue 3/20 7:1 Wed 4/25 8:37 Wed 5/2 7:25 Wed 5/16 8:34	Tue 3/20 8:02 Thur 4/26 7:25 Wed 5/2 8:27 Thur 5/17 8:11
11	I-680 - SB	Bernal	Sunol	County	1.31		136	New LOS F	D 43.9	F(30) 27.5	Wed 2/29 7:31 Wed 3/7 8:01 Thur 3/8 8:37 Wed 3/21 8:21	Thur 3/1 7:54 Thur 3/8 7:04 Tue 3/20 7:09
12	I-880 - NB	Marina Blvd	SR 112/ Davis	Oakland - San Leandro	0.79	'10	67		F(30)2 5.9	F(30)3 0.0	Thur 3/1 8:19 Wed 3/7 7:03 Thur 4/26 7:51 Tue 6/5 8:30	Tue 3/6 7:34 Wed 3/7 8:19 Thur 5/17 7:20 Wed 6/6 8:04
13	I-880 - NB	SR 112/ Davis	Hegenberger	Oakland - San Leandro	1.88		164	New LOS F	E 31.7	F(30) 29.8	Same As Above	
14	I-880 - SB	I-238	A St	San Leandro - County	2.03	'06-'10	577		F(20) 18.0	F(30) 22.4	Tue 3/6 7:11 Wed 3/7 7:02 Thur 4/26 7:25 Wed 6/6 7:01	Tue 3/6 8:27 Thur 3/8 7:06 Thur 4/26 8:35 Wed 6/6 8:22
15	I-880 - SB	SR 92	Tennyson	Hayward	0.96		252	New LOS F	E 39.5	F(30) 23.0	Same As Above	
16	I-880 - SB	Tennyson	Alvarado- Niles	Hayward - Union City	2.49	'00	616		F(30) 29.4	F(30) 23.5	Wed 3/7 7:20 Tue 3/20 8:12 Tue 5/1 7:26 Wed 6/6 7:17	Thur 3/8 7:24 Thur 4/26 7:56 Thur 5/24 8:10 Wed 6/6 8:34
17	I-880 - SB	Alvarado- Niles	Alvarado	Union City - Fremont	1.37	'10	290		F(30) 26.1	F(30) 24.6	Same As Above	
18	I-880 - SB	Alvarado	Decoto	Union City - Fremont	1.17		180	New LOS F	E 33.0	F(30) 26.8	Same As Above	

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CMP Route	Segment Limits		Jurisdiction	Length (miles)	Prior LOS F Delay	Vehicle Hrs of Delay	Comments	LOS Results		Run details		
	From	To						2010	2012			
19	I-880 - SB	Decoto	Stevenson	Fremont	4.07	'10	1505	New LOS F	F(30) 28.4	F(30) 20.2	Same As Above	
20	SR 13 - NB	Moraga Ave	Hiller (Sig)	Oakland	1.57	'06-'10	202	Construction	F(30) 28.8	F(30) 23.2	Wed 3/21 7:24 Tue 5/1 7:41 Thur 5/3 8:03	Wed 3/21 8:05 Thur 5/3 7:19
21	SR 24 - EB	Broadway /SR 13	Caldecott (Entrance)	Oakland	1.41	'08-'10	649	Construction	F(30) 20.1	F(20) 18.3	Wed 3/7 8:15 Wed 3/21 7:34 Tue 5/1 8:08	Thur 3/8 8:41 Wed 3/21 7:55 Thur 5/24 7:02
22	Hesperian - NB	Grant	Lewelling	County	0.28	'10		Construction	F 10.0	F 9.9	Thur 3/8 7:08 Thur 5/3 8:35 Tue 5/8 8:01	Tue 5/1 7:45 Tue 5/8 7:01 Tue 5/22 7:08
23	SR 84/ Fremont - WB	Peralta	Thornton	Fremont	0.33			New LOS F	F 9.8	F 9.5	Thur 3/1 7:13 Thur 3/8 8:51 Thur 3/22 7:38 Thur 4/26 7:15 Wed 5/2 7:51	Tue 3/6 7:46 Wed 3/21 8:53 Wed 4/25 8:18 Wed 5/2 7:13 Thur 5/3 7:05
24	SR 84 - EB	Sunol Rd	Pleasanton-Sunol Rd	Fremont	0.53			New LOS F	D19.2	F9.3	Wed 2/29 8:40 Thur 3/8 8:07 Thur 3/22 7:10	Tue 3/6 7:15 Wed 3/21 8:22 Wed 4/25 7:27
25	SR 84 - WB	Ruby Hill / Kaithoff	Culvert (Lat/Long 37.613854,-121.817224)	Pleasanton	1.62			New LOS F	B 47.4	F 18.1	Thur 3/1 8:03 Tue 3/20 7:01 Wed 5/16 7:48	Tue 3/6 7:20 Wed 3/21 7:04 Wed 5/16 8:38
26	SR 185 (14th) - NB	46th St.	42nd	Oakland	0.26			Construction	F 7.2	F 8.8	Wed 2/29 8:43 Wed 5/2 7:59 Thur 5/10 8:28	Wed 5/2 7:28 Wed 5/9 7:49
27	1-880/ SR 260 Connection	SR-260 EB	I-880 NB	Oakland	0.36			New LOS F	E 18.8	F 15.5	Wed 3/7 8:13 Tue 5/1 8:06 Thur 6/7 8:24	Wed 4/25 7:38 Wed 6/6 8:47 Wed 6/6 8:50