



METROPOLITAN
TRANSPORTATION
COMMISSION

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Memorandum

TO: Local Streets & Roads Working Group

DATE: July 11, 2013

FR: Sui Tan

RE: 2012 Regional Pavement Condition and KPI Update

MTC's Regional Streets & Roads Program (RSRP) staff is currently compiling the 2012 regional pavement condition summary report. This report will be released to the press in September 2013. Along with the PCI, this year we propose to include several key performance indicators (KPI). Please review the attached draft results and provide your feedback on the KPIs to me by **August 12, 2013**. You can reach me at 510-817-5844, stan@mtc.ca.gov.

Performance Management in MAP-21

MAP-21, the Moving Ahead for Progress in the 21st Century Act, creates a streamlined and performance- and outcome-based surface transportation program. At the regional level, MTC will be required to set performance targets in relation to the performance measures established by FHWA. MTC is leading other MPOs in the nation in terms of having a robust and comprehensive needs assessment process. Other regions may not be able to generate meaningful and measurable performance measures like ours. It is possible that many of our performance measures may not be adopted. However, the intent is to improve agency's overall performance and promote increased transparency and accountability in performance management reporting. Specifically, the information provided will assist local agencies in answering:

- What is the existing condition of the road network?
- What amount of funding is currently invested in road maintenance?
- What amount of funding is needed to achieve the state of good repair?
- How effective is the pavement preservation effort?

Proposed Key Performance Indicators

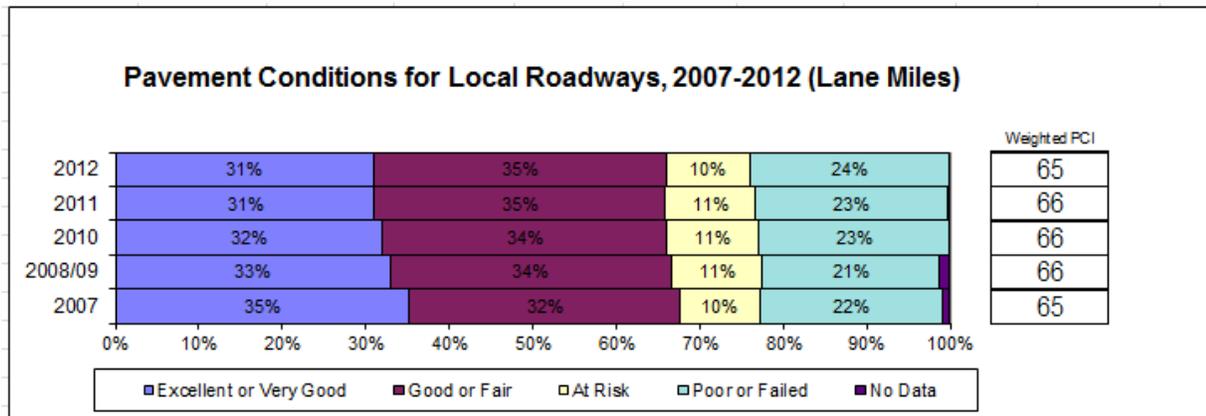
As you know, pavement condition alone does not provide a full picture of the state of our system. To achieve our regional goal of state of good repair, it is important to include performance indicators or performance measures as a way to evaluate our progress. To make the data easier to grasp, they are grouped by:

1. Current Level of Service,
2. Effectiveness of Pavement Preservation, and
3. Reasonableness of Investment Level.

Regional benchmarks will be provided for comparison. All KPIs are compiled exclusively from the latest local jurisdictions' StreetSaver databases as of December 31, 2012. Here are the KPIs for consideration:

1) Current Level of Service

% of Poor or Failed (PCI <=50) and % of Very Good or Excellent (PCI >=80)



2) Effectiveness of Pavement Preservation

% of PM

This is the amount of preventive maintenance applied as compared to the total maintenance and rehabilitation (M&R). It is based on the last three years of M&R work. Eligible treatments include those applied to arterial and collector streets with a PCI of 70 and above, or a PCI of 60 and above for residential streets. As pavement condition improves, the amount of preventive maintenance will increase, and rehabilitation will decrease. As an indicator, this number should increase.

\$PM/Lane Mile

This is the average preventive maintenance expenditure from the last three years per LANE MILE. As an indicator, this amount should increase.

\$M&R/Lane Mile

This is same as \$PM/Lane Mile but using the maintenance and rehabilitation expenditure per lane mile. As an indicator, we would like to see an increasing number.

3) Reasonableness of Investment Level

Needs

The Needs assessment is a process to improve the performance of pavements with best management practices on pavement preservation, while minimizing costs. Nine sets of countywide decision trees were applied based on the latest 2011 unit costs survey. To achieve the state of good repair, a 10-year analysis is deemed as a minimum cycle to realize the benefit of preventive maintenance. Needs is not used as an indicator but is used as supporting data for Needs/Lane Mile, Current Backlog, and Network Loss.

Needs/ Lane Mile

This indicator is used to bench mark the amount of annual funding needed to maintain the state of good repair by lane miles. The average cost of the 10-year Needs is used because to be cost effective, needs is front-loaded with major rehabilitation and preventive maintenance in later years.

Current Backlog (from first year of 10-year Needs)

This is the current backlog to bring the network condition to the state of good repair. It is derived from the first year of Needs analysis. As an indicator, this amount should decrease.

Inflation Rate = 3.00 % Printed: 07/09/2013

Year	PCI Treated	PCI Untreated	PM Cost	Rehab Cost	Cost	
2013	87	80	\$1,971,500	\$2,605,770	\$4,577,270	
2014	86	79	\$188,587	\$1,139,811	\$1,328,398	
2015	86	77	\$123,315	\$989,282	\$1,112,597	
2016	86	76	\$520,334	\$0	\$520,334	
2017	84	74	\$19,932	\$0	\$19,932	
2018	84	72	\$0	\$9,276	\$1,078,821	
2019	84	71	\$0	\$8,892	\$705,802	
2020	86	69	\$0	\$0	\$2,140,727	
2021	85	67	\$0	\$0	\$407,418	
2022	85	65	\$0	\$0	\$574,048	
			% PM	PM Total Cost	Rehab Total Cost	Total Cost
			53.93%	\$6,722,316	\$5,743,031	\$12,465,347

This is the Current Backlog. If an investment of ~\$4.6million is made, then the optimal PCI will be 87.

Remaining Service Life (RSL)

This is the remaining serviceable life of the network’s pavement. The lower threshold is set at PCI = 25. In other words, when pavement condition reaches PCI of 25, its level of service is considered not acceptable and needs reconstruction. However, if pavements are kept at good condition, their RSL will increase. Hence, as an indicator, this number should increase.

Network Asset Value (NAV)

The network asset value is the total costs to replace all pavements based on the 9-countywide decision trees (Unit costs in Condition Category V- Reconstruction). The NAV is not used as an indicator but is used as supporting data for Network Loss.

Network Loss

The loss of network value each year compares to the network asset value. The network loss is a ratio of annualized 10-year Needs over NAV. The needs are work required to maintain the network to the state of good repair. All pavements, new and existing, will deteriorate due to environment and traffic. However, with proper maintenance, the rate of deterioration will reduce. Therefore, it is important to see this indicator decrease.

Attachments

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Current Level of Service

County	Jurisdiction	Total Lane Miles	Centerline Miles	% Poor or Failed	% Excellent or Very Good	2012 PCI				3-yr Moving Average		
						Arterial	Collector	Residential	Network	2010	2011	2012
	Regional Benchmarks (weighted)	42787.9	20633.6	24%	31%	73	66	63	66	66	66	66
Alameda	ALAMEDA	303.9	137.8	22%	29%	70	72	62	66	66	67	68
	ALAMEDA COUNTY	990.3	471.8	9%	16%	71	73	71	71	72	73	71
	ALBANY	59.1	29.4	36%	20%	64	60	54	58	60	58	57
	BERKELEY	452.8	216.2	38%	28%	70	50	58	58	60	59	59
	DUBLIN	254.0	116.0	0%	84%	88	85	88	87	82	84	86
	EMERYVILLE	47.1	19.8	5%	51%	77	75	70	75	77	78	78
	FREMONT	1064.9	496.9	30%	31%	73	61	57	63	64	63	63
	HAYWARD	645.3	282.0	21%	45%	79	72	64	69	69	69	69
	LIVERMORE	670.2	301.8	5%	52%	76	76	76	76	78	78	78
	NEWARK	250.1	104.4	5%	52%	77	75	75	76	69	71	73
	OAKLAND	1919.5	794.5	29%	18%	67	58	58	61	56	57	58
	PIEDMONT	78.1	38.8	16%	19%	70	71	65	67	70	73	71
	PLEASANTON	497.4	206.3	5%	54%	77	75	78	77	77	77	77
	SAN LEANDRO	391.5	180.4	41%	19%	64	62	52	57	57	56	56
	UNION CITY	329.6	138.1	4%	59%	77	82	80	80	78	79	79
	COUNTYWIDE	7954.0	3534.1	20%	33%	72	67	65	67	66	67	68
Contra Costa	ANTIOCH	666.3	317.3	21%	40%	71	57	68	68	69	69	69
	BRENTWOOD	406.1	182.7	1%	90%	83	86	89	88	86	86	87
	CLAYTON	94.2	42.4	7%	59%	88	79	78	80	75	74	75
	CONCORD	713.3	308.6	18%	8%	62	65	61	62	76	72	67
	CONTRA COSTA COUNTY	1328.3	645.3	14%	28%	73	63	68	69	78	75	72
	DANVILLE	315.7	154.0	14%	37%	83	74	70	72	73	72	72
	EL CERRITO	145.4	70.1	0%	82%	81	88	85	85	62	73	84
	HERCULES	121.8	58.0	20%	60%	77	75	69	72	73	74	74
	LAFAYETTE	200.7	92.5	11%	59%	84	83	67	75	72	73	74
	MARTINEZ	230.3	120.2	36%	31%	69	58	59	61	59	60	60
	MORAGA	110.2	55.7	54%	14%	67	43	43	50	58	56	53
	OAKLEY	282.4	130.6	10%	61%	74	75	77	76	76	75	74
	ORINDA	192.9	92.7	58%	23%	78	62	38	50	49	48	48
	PINOLE	118.8	52.2	14%	30%	77	61	69	69	70	69	70

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	Regional Benchmarks (weighted)	42787.9	20633.6	24%	31%	73	66	63	66	66	66	66
	PITTSBURG	334.4	165.3	28%	31%	69	65	60	63	64	64	64
	PLEASANT HILL	224.9	109.7	24%	24%	76	79	57	65	67	66	66
	RICHMOND	570.2	286.7	31%	40%	73	63	60	65	55	58	61
	SAN PABLO	103.4	48.1	4%	50%	83	77	76	78	80	79	79
	SAN RAMON	433.1	213.6	9%	54%	77	76	76	76	75	76	76
	WALNUT CREEK	430.5	217.5	9%	40%	71	72	71	71	73	71	71
	COUNTYWIDE	7022.8	3363.1	18%	39%	74	68	67	69	71	71	70
Marin	BELVEDERE	23.5	12.7	1%	50%	85	80	80	81	84	85	83
	CORTE MADERA	71.2	35.0	9%	19%	72	70	70	70	72	71	71
	FAIRFAX	54.7	27.6	24%	22%	63	65	62	63	69	68	66
	LARKSPUR	63.7	32.2	65%	7%	71	63	33	40	45	44	42
	MARIN COUNTY	845.7	420.4	39%	21%	75	60	50	57	52	52	55
	MILL VALLEY	117.4	61.4	30%	21%	54	59	62	60	61	62	62
	NOVATO	317.8	152.6	14%	36%	69	71	69	70	73	73	72
	ROSS	22.1	11.1	16%	41%	81	64	74	72	67	69	70
	SAN ANSELMO	81.4	39.2	34%	31%	67	55	59	59	55	56	57
	SAN RAFAEL	330.9	172.6	19%	40%	71	70	69	70	75	74	72
	SAUSALITO	52.3	26.8	26%	29%	73	57	76	63	63	63	63
	TIBURON	67.4	35.9	12%	54%	87	77	74	76	70	70	73
	COUNTYWIDE	2048.1	1027.2	29%	28%	72	64	60	63	62	62	63
Napa	AMERICAN CANYON	106.5	52.3	26%	40%	72	59	66	64	74	71	67
	CALISTOGA	30.7	15.4	39%	13%	73	57	57	58	60	61	59
	NAPA	462.9	218.7	33%	30%	73	68	59	63	57	58	60
	NAPA COUNTY	833.9	416.4	34%	17%	81	63	53	60	57	60	59
	ST. HELENA	51.2	26.0	59%	15%	44	38	41	40	46	44	42
	YOUNTVILLE	16.9	8.5	17%	26%	74	62	67	68	69	71	69
	COUNTYWIDE	1502.1	737.1	34%	22%	76	63	56	61	58	58	60
San Francisco	SAN FRANCISCO	2134.9	939.3	31%	27%	72	68	62	65	64	64	64
San Mateo	ATHERTON	105.8	53.8	0%	56%	83	83	81	81	77	79	81
	BELMONT	138.3	69.3	45%	23%	75	60	50	56	60	58	57

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						Arterial	Collector	Residential	Network	2010	2011	2012
	Regional Benchmarks (weighted)	42787.9	20633.6	24%	31%	73	66	63	66	66	66	66
	BRISBANE	53.2	22.3	4%	57%	79	73	80	77	77	77	77
	BURLINGAME	162.3	83.9	10%	34%	76	69	73	73	77	76	74
	COLMA	23.0	9.1	31%	55%	53	77	90	68	65	68	70
	DALY CITY	253.8	115.2	3%	56%	79	79	79	79	77	77	78
	EAST PALO ALTO	79.7	37.9	39%	13%	64	58	47	51	53	53	53
	FOSTER CITY	121.0	54.7	0%	59%	80	83	80	81	81	81	81
	HALF MOON BAY	54.1	27.3	54%	23%	74	39	48	50	62	59	54
	HILLSBOROUGH	166.5	83.3	6%	24%	79	74	70	72	71	72	73
	MENLO PARK	199.8	98.0	8%	56%	77	79	78	78	63	68	72
	MILLBRAE	124.6	58.2	31%	16%	73	62	49	59	59	62	61
	PACIFICA	187.2	90.1	39%	23%	58	70	55	59	59	60	59
	PORTOLA VALLEY	71.3	36.7	4%	54%	82	83	80	81	73	77	78
	REDWOOD CITY	352.4	154.3	5%	45%	79	77	75	76	78	77	77
	SAN BRUNO	178.1	88.8	37%	26%	74	58	53	58	63	63	61
	SAN CARLOS	174.7	86.0	34%	15%	71	56	57	60	67	65	63
	SAN MATEO	411.7	192.4	17%	56%	83	81	67	73	73	72	72
	SAN MATEO COUNTY	624.6	307.1	14%	26%	82	74	65	69	69	69	69
	SOUTH SAN FRANCISCO	296.0	138.9	13%	31%	74	67	69	70	73	72	71
	WOODSIDE	96.4	47.7	48%	20%	57	59	52	54	57	58	58
	COUNTYWIDE	3874.4	1855.1	18%	36%	76	72	67	69	70	70	69
Santa Clara	CAMPBELL	218.3	91.2	8%	38%	77	66	74	73	75	75	74
	CUPERTINO	299.1	138.7	30%	23%	77	78	60	65	70	70	68
	GILROY	253.1	118.7	8%	50%	74	75	77	76	76	74	74
	LOS ALTOS	225.9	110.9	0%	48%	83	78	78	79	82	81	80
	LOS ALTOS HILLS	114.6	57.4	8%	49%	74	78	76	76	77	77	77
	LOS GATOS	220.7	104.0	17%	44%	82	72	69	72	69	68	69
	MILPITAS	298.2	128.3	14%	33%	74	68	71	71	69	68	69
	MONTE SERENO	27.1	13.6	10%	23%	68	68	68	68	69	69	70
	MORGAN HILL	255.9	116.1	4%	41%	74	73	76	75	77	77	76
	MOUNTAIN VIEW	330.9	144.4	4%	34%	72	75	74	73	76	75	75
	PALO ALTO	470.7	198.4	14%	60%	71	75	80	78	73	73	75
	SAN JOSE	4210.3	1934.1	23%	17%	73	71	57	62	64	64	63

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						Arterial	Collector	Residential	Network	2010	2011	2012
	Regional Benchmarks (weighted)	42787.9	20633.6	24%	31%	73	66	63	66	66	66	66
	SANTA CLARA	589.8	247.4	3%	37%	79	72	77	76	80	78	76
	SANTA CLARA COUNTY	1436.1	623.8	11%	44%	77	70	72	75	74	74	75
	SARATOGA	280.8	140.0	5%	18%	78	72	73	74	71	72	73
	SUNNYVALE	635.8	259.6	4%	41%	78	74	76	76	75	76	76
	COUNTYWIDE	9867.4	4426.3	15%	29%	75	72	67	69	70	70	69
Solano	BENICIA	190.1	93.9	37%	27%	62	77	55	60	63	61	60
	DIXON	125.8	62.1	11%	61%	77	79	77	77	76	78	77
	FAIRFIELD	716.8	331.8	12%	34%	71	68	71	70	73	73	73
	RIO VISTA	45.5	22.7	43%	39%	76	65	50	57	42	47	51
	SOLANO COUNTY	940.8	467.7	8%	43%	76	81	69	75	67	68	71
	SUISUN CITY	150.0	75.1	26%	39%	77	67	60	65	62	68	67
	VACAVILLE	581.9	264.5	21%	30%	74	66	66	68	76	73	70
	VALLEJO	714.5	320.0	49%	24%	68	53	42	50	53	51	51
	COUNTYWIDE	3465.3	1637.8	22%	35%	72	69	62	66	66	66	66
Sonoma	CLOVERDALE	63.2	32.0	28%	36%	69	61	62	64	71	68	66
	COTATI	46.3	22.3	42%	21%	73	51	51	57	64	61	59
	HEALDSBURG	93.2	44.9	31%	30%	69	67	56	62	66	63	61
	PETALUMA	389.7	174.1	28%	22%	62	43	40	46	55	52	49
	ROHNERT PARK	207.0	90.2	23%	38%	72	70	65	68	69	68	68
	SANTA ROSA	1093.8	490.5	52%	19%	65	64	60	62	65	65	64
	SEBASTOPOL	47.2	23.7	27%	34%	64	75	60	65	65	64	64
	SONOMA	68.2	33.8	24%	44%	69	71	66	68	77	74	71
	SONOMA COUNTY	2737.2	1378.8	66%	8%	62	34	36	43	45	45	44
	WINDSOR	173.1	86.4	15%	40%	68	71	68	69	73	72	70
	COUNTYWIDE	4919.0	2376.6	51%	16%	64	46	46	60	54	53	55

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Level of Investment												
County	Jurisdiction	Network PCI	Network RSL	Effectiveness of Pavement Preservation				Reasonableness of Investment Level				
				% PM Needs	% Actual PM	\$PM/Lane Mile	\$ M&R /Lane Mile	Current Backlog	Needs/ Lane Mile	Annual Needs (10yr)	Network Asset Value	Network Loss
	Regional Benchmarks	66	18.1	16%	17%	\$1,336	\$10,411	\$5,645,307,260	\$27,022	\$1,264,595,432	\$38,814,289,341	2.98%
Alameda	ALAMEDA	66	17.7	15%	13%	\$1,271	\$9,761	\$32,317,447	\$26,907	\$8,177,862	\$229,350,372	3.57%
	ALAMEDA COUNTY	71	19.9	28%	18%	\$671	\$3,639	\$54,964,163	\$16,180	\$16,022,686	\$647,145,659	2.48%
	ALBANY	58	14.0	13%	10%	\$1,247	\$12,659	\$9,081,623	\$29,837	\$1,764,583	\$41,062,115	4.30%
	BERKELEY	58	16.2	11%	2%	\$263	\$11,626	\$77,403,177	\$32,399	\$14,670,751	\$298,064,833	4.92%
	DUBLIN	87	28.5	79%	50%	\$3,124	\$6,306	\$3,580,026	\$5,630	\$1,430,336	\$179,534,001	0.80%
	EMERYVILLE	75	19.8	35%	100%	\$48	\$48	\$2,683,702	\$16,054	\$756,166	\$37,196,313	2.03%
	FREMONT	63	16.2	16%	43%	\$5,140	\$11,913	\$131,375,800	\$29,064	\$30,948,760	\$804,905,195	3.85%
	HAYWARD	69	20.9	19%	6%	\$838	\$13,993	\$58,548,913	\$22,567	\$14,563,023	\$473,127,447	3.08%
	LIVERMORE	76	24.3	34%	29%	\$1,672	\$5,787	\$40,236,643	\$14,991	\$10,047,246	\$515,954,245	1.95%
	NEWARK	76	21.8	32%	17%	\$2,012	\$11,627	\$12,683,254	\$16,177	\$4,046,392	\$187,484,922	2.16%
	OAKLAND	61	15.8	11%	4%	\$207	\$4,619	\$219,326,892	\$27,657	\$53,087,747	\$1,197,473,376	4.43%
	PIEDMONT	67	19.5	19%	0	\$0	\$0	\$6,225,701	\$18,526	\$1,447,599	\$45,687,716	3.17%
	PLEASANTON	77	23.0	33%	9%	\$1,276	\$14,619	\$27,878,189	\$14,892	\$7,406,936	\$374,885,812	1.98%
	SAN LEANDRO	57	13.9	10%	11%	\$836	\$7,511	\$59,805,702	\$33,668	\$13,181,539	\$268,440,670	4.91%
UNION CITY	80	24.1	43%	23%	\$2,330	\$10,151	\$13,800,224	\$11,601	\$3,823,988	\$242,156,318	1.58%	
Contra Costa	ANTIOCH	68	19.4	18%	0%	\$0	\$0	\$81,138,215	\$23,643	\$15,753,687	\$477,695,781	3.30%
	BRENTWOOD	88	29.4	76%	43%	\$2,224	\$5,116	\$6,434,415	\$5,856	\$2,378,224	\$293,603,771	0.81%
	CLAYTON	80	25.5	39%	2%	\$233	\$15,474	\$5,107,526	\$11,791	\$1,110,981	\$66,403,463	1.67%
	CONCORD	62	15.0	10%	47%	\$388	\$817	\$77,133,213	\$28,849	\$20,577,481	\$479,719,760	4.29%
	CONTRA COSTA COUNTY	69	18.2	17%	17%	\$1,640	\$9,758	\$101,120,475	\$20,288	\$26,948,677	\$846,293,610	3.18%
	DANVILLE	72	22.2	23%	30%	\$3,078	\$10,098	\$17,807,099	\$15,786	\$4,984,192	\$207,311,892	2.40%
	EL CERRITO	85	28.8	50%	13%	\$1,129	\$8,656	\$2,638,486	\$5,052	\$734,699	\$86,974,470	0.84%
	HERCULES	72	22.9	22%	0%	\$0	\$0	\$8,427,735	\$20,506	\$2,497,257	\$89,320,530	2.80%
	LAFAYETTE	75	24.0	24%	23%	\$2,250	\$9,590	\$11,780,255	\$10,768	\$2,160,987	\$132,969,820	1.63%
	MARTINEZ	61	15.4	11%	0%	\$0	\$1,554	\$28,898,429	\$28,515	\$6,565,678	\$150,306,399	4.37%
	MORAGA	50	10.1	5%	0%	\$0	\$0	\$22,638,583	\$45,311	\$4,991,921	\$84,059,184	5.94%
	OAKLEY	76	22.5	32%	51%	\$922	\$1,797	\$13,311,787	\$14,957	\$4,223,145	\$197,070,414	2.14%
	ORINDA	50	11.9	8%	1%	\$34	\$6,637	\$27,963,368	\$29,027	\$5,600,184	\$96,313,767	5.81%
	PINOLE	69	19.4	14%	99%	\$929	\$935	\$10,475,253	\$21,909	\$2,602,174	\$82,691,793	3.15%
	PITTSBURG	63	16.6	14%	0%	\$0	\$0	\$48,125,150	\$29,669	\$9,920,564	\$256,591,988	3.87%
	PLEASANT HILL	65	18.3	20%	18%	\$598	\$3,321	\$22,474,867	\$19,108	\$4,297,389	\$153,715,831	2.80%
	RICHMOND	65	16.8	9%	9%	\$1,265	\$14,489	\$63,390,721	\$29,269	\$16,690,019	\$434,335,280	3.84%
	SAN PABLO	78	25.8	34%	52%	\$7,762	\$15,019	\$4,142,159	\$10,784	\$1,115,061	\$67,557,076	1.65%
SAN RAMON	76	30.1	28%	14%	\$1,105	\$8,045	\$24,535,594	\$15,466	\$6,698,129	\$317,289,217	2.11%	
WALNUT CREEK	71	21.8	12%	44%	\$2,462	\$5,505	\$40,693,029	\$30,634	\$13,187,670	\$386,804,969	3.41%	

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County	Jurisdiction	Network PCI	Network RSL	Effectiveness of Pavement Preservation				Reasonableness of Investment Level				
				% PM Needs	% Actual PM	\$PM/Lane Mile	\$ M&R /Lane Mile	Current Backlog	Needs/ Lane Mile	Annual Needs (10Yr)	Network Asset Value	Network Loss
Regional Benchmarks		66	18.1	16%	17%	\$1,336	\$10,411	\$5,645,307,260	\$27,022	\$1,264,595,432	\$38,814,289,341	2.98%
Marin	BELVEDERE	81	28.7	74%	100%	\$75	\$75	\$388,795	\$3,955	\$93,064	\$17,512,210	0.53%
	CORTE MADERA	70	20.9	16%	0%	\$0	\$0	\$4,964,514	\$20,764	\$1,478,391	\$62,832,419	2.35%
	FAIRFAX	63	17.1	12%	100%	\$121	\$121	\$5,936,026	\$22,225	\$1,215,493	\$40,054,777	3.03%
	LARKSPUR	40	8.1	4%	1%	\$20	\$1,854	\$23,915,471	\$60,807	\$3,872,805	\$57,784,471	6.70%
	MARIN COUNTY	57	14.8	9%	2%	\$200	\$12,043	\$86,764,490	\$19,287	\$16,311,027	\$403,261,775	4.04%
	MILL VALLEY	60	15.5	9%	27%	\$1,400	\$5,098	\$11,960,507	\$26,963	\$3,165,235	\$87,731,795	3.61%
	NOVATO	70	19.5	16%	21%	\$320	\$1,497	\$31,998,472	\$25,900	\$8,231,551	\$346,976,405	2.37%
	ROSS	72	22.0	18%	1%	\$75	\$13,285	\$1,855,275	\$14,940	\$330,170	\$15,890,815	2.08%
	SAN ANSELMO	59	17.0	9%	23%	\$2,681	\$11,745	\$11,610,418	\$26,406	\$2,148,400	\$58,840,014	3.65%
	SAN RAFAEL	70	22.3	15%	2%	\$173	\$9,047	\$40,457,110	\$26,840	\$8,882,050	\$341,830,594	2.60%
	SAUSALITO	63	17.8	12%	17%	\$2,785	\$16,244	\$5,066,131	\$16,665	\$871,237	\$27,737,695	3.14%
TIBURON	76	25.6	24%	4%	\$1,258	\$30,137	\$5,130,385	\$14,262	\$961,412	\$55,780,557	1.72%	
Napa	AMERICAN CANYON	64	19.2	13%	5%	\$422	\$9,197	\$25,038,316	\$41,721	\$4,444,492	\$123,777,943	3.59%
	CALISTOGA	58	14.1	8%	0%	\$0	\$1,243	\$3,056,789	\$35,550	\$1,091,043	\$31,147,727	3.50%
	COUNTYOFNAPA	60	14.0	9%	8%	\$1,451	\$18,076	\$120,186,300	\$32,103	\$26,770,624	\$697,813,717	3.84%
	NAPA	63	17.7	8%	5%	\$1,483	\$32,957	\$65,639,497	\$42,249	\$19,555,497	\$521,016,506	3.75%
	ST. HELENA	40	9.8	5%	0%	\$0	\$954	\$25,204,502	\$66,496	\$3,401,943	\$51,381,168	6.62%
	YOUNTVILLE	68	19.1	9%	0%	\$0	\$0	\$1,977,725	\$29,207	\$493,885	\$17,015,559	2.90%
San Francisco	SAN FRANCISCO	65	18.2	5%	9%	\$1,626	\$17,975	\$482,883,080	\$56,841	\$120,568,320	\$3,638,120,960	3.31%
San Mateo	ATHERTON	81	28.2	48%	47%	\$5,708	\$12,123	\$2,534,528	\$6,807	\$720,206	\$83,341,279	0.86%
	BELMONT	56	14.5	7%	50%	\$1,192	\$2,398	\$34,170,600	\$40,714	\$5,630,729	\$126,877,469	4.44%
	BRISBANE	77	22.4	32%	25%	\$5,743	\$22,555	\$2,702,010	\$14,333	\$761,951	\$61,898,668	1.23%
	BURLINGAME	73	20.9	19%	24%	\$897	\$3,785	\$13,991,187	\$20,484	\$3,323,562	\$169,504,716	1.96%
	COLMA	68	21.7	8%	0%	\$0	\$3,971	\$2,017,496	\$43,174	\$993,009	\$28,107,484	3.53%
	DALY CITY	79	25.0	33%	26%	\$6,231	\$24,060	\$9,698,528	\$12,899	\$3,274,080	\$310,324,448	1.06%
	EAST PALO ALTO	51	13.1	6%	1%	\$500	\$42,025	\$34,526,129	\$67,466	\$5,376,397	\$111,390,191	4.83%
	FOSTER CITY	81	26.6	52%	38%	\$1,226	\$3,192	\$4,577,196	\$9,452	\$1,143,349	\$147,708,264	0.77%
	HALF MOON BAY	50	14.4	7%	0%	\$0	\$0	\$15,439,058	\$47,537	\$2,571,261	\$49,246,652	5.22%
	HILLSBOROUGH	72	21.2	19%	0%	\$0	\$31	\$9,596,561	\$13,873	\$2,309,770	\$124,335,049	1.86%
	MENLO PARK	78	25.3	23%	6%	\$2,973	\$48,355	\$13,409,617	\$16,887	\$3,373,546	\$197,106,236	1.71%
	MILLBRAE	59	13.5	9%	0%	\$0	\$0	\$17,311,725	\$27,777	\$3,461,045	\$98,685,644	3.51%
	PACIFICA	59	16.3	8%	0%	\$6	\$5,657	\$43,172,601	\$44,026	\$8,242,100	\$191,876,946	4.30%
	PORTOLA VALLEY	81	27.1	41%	55%	\$4,908	\$8,928	\$2,792,690	\$8,253	\$588,324	\$66,459,940	0.89%
	REDWOOD CITY	76	22.7	19%	25%	\$1,808	\$7,286	\$22,416,027	\$18,700	\$6,589,800	\$376,505,825	1.75%
	SAN CARLOS	60	15.6	8%	4%	\$220	\$6,220	\$28,008,327	\$41,152	\$7,188,370	\$185,708,583	3.87%
	SAN MATEO	73	22.1	17%	7%	\$1,195	\$16,808	\$52,049,335	\$22,187	\$9,134,236	\$426,570,971	2.14%
SAN MATEO COUNTY	69	19.2	17%	7%	\$1,542	\$21,349	\$40,438,880	\$13,696	\$8,554,728	\$391,364,384	2.19%	

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				% PM Needs	% Actual PM	\$PM/Lane Mile	\$ M&R /Lane Mile	Current Backlog	Needs/ Lane Mile	Annual Needs (10Yr)	Network Asset Value	Network Loss
	Regional Benchmarks	66	18.1	16%	17%	\$1,336	\$10,411	\$5,645,307,260	\$27,022	\$1,264,595,432	\$38,814,289,341	2.98%
	SAN BRUNO	58	14.8	7%	0%	\$0	\$6,742	\$41,356,282	\$46,852	\$8,346,270	\$195,038,006	4.28%
	SOUTH SAN FRANCISCO	70	18.6	14%	6%	\$1,057	\$18,582	\$36,866,441	\$26,947	\$7,977,335	\$342,091,284	2.33%
	WOODSIDE	54	13.3	6%	1%	\$51	\$7,283	\$15,591,917	\$37,255	\$3,589,863	\$71,720,123	5.01%
Santa Clara	CAMPBELL	73	22.8	25%	0%	\$10	\$2,658	\$16,408,424	\$20,237	\$4,418,113	\$241,675,550	1.83%
	CUPERTINO	65	17.9	11%	14%	\$1,418	\$10,071	\$36,913,022	\$37,823	\$11,311,731	\$324,987,239	3.48%
	GILROY	76	21.1	25%	9%	\$533	\$5,712	\$22,862,096	\$25,457	\$6,443,906	\$328,383,197	1.96%
	LOS ALTOS	79	28.9	46%	66%	\$1,854	\$2,817	\$7,184,963	\$10,299	\$2,326,375	\$238,995,801	0.97%
	LOS ALTOS HILLS	76	24.1	18%	6%	\$424	\$7,594	\$7,180,185	\$17,036	\$1,952,839	\$87,804,116	2.22%
	LOS GATOS	72	21.4	17%	14%	\$4,482	\$31,847	\$20,387,540	\$23,618	\$5,212,863	\$229,554,028	2.27%
	MILPITAS	71	20.0	18%	10%	\$1,948	\$20,083	\$29,491,174	\$26,894	\$8,020,982	\$329,418,161	2.43%
	MONTE SERENO	68	19.5	12%	0%	\$0	\$0	\$2,522,436	\$22,510	\$610,021	\$23,747,911	2.57%
	MORGAN HILL	75	21.5	32%	27%	\$562	\$2,056	\$18,220,073	\$18,603	\$4,760,021	\$305,361,816	1.56%
	MOUNTAIN VIEW	73	22.8	20%	28%	\$1,484	\$5,225	\$30,081,171	\$23,814	\$7,881,087	\$382,647,928	2.06%
	PALO ALTO	78	24.0	-	19%	\$38,631	\$139,823	\$24,006,030	-	-	\$208,954,091	-
	SAN JOSE	62	15.6	10%	15%	\$1,919	\$12,575	\$617,128,169	\$39,207	\$165,073,784	\$4,749,239,081	3.48%
	SANTA CLARA	76	23.9	34%	14%	\$812	\$5,796	\$34,015,194	\$15,611	\$9,207,410	\$677,312,449	1.36%
	SANTA CLARA COUNTY	75	21.5	18%	20%	\$2,890	\$14,341	\$71,944,684	\$15,030	\$21,584,125	\$869,683,874	2.48%
SARATOGA	74	21.8	29%	0%	\$0	\$0	\$20,376,109	\$16,899	\$4,745,500	\$299,285,967	1.59%	
SUNNYVALE	76	22.2	35%	50%	\$4,283	\$8,525	\$38,575,435	\$16,851	\$10,713,870	\$719,255,567	1.49%	
Solano	BENICIA	60	16.1	7%	6%	\$678	\$11,020	\$39,993,560	\$44,598	\$8,475,941	\$208,105,656	4.07%
	DIXON	77	23.9	25%	22%	\$137	\$621	\$8,608,459	\$18,040	\$2,269,793	\$147,272,576	1.54%
	FAIRFIELD	70	18.9	14%	20%	\$1,236	\$6,123	\$73,278,301	\$24,236	\$17,372,496	\$762,003,377	2.28%
	RIO VISTA	57	15.4	8%	0%	\$0	\$11,860	\$12,717,434	\$40,939	\$1,861,908	\$44,166,375	4.22%
	SOLANO COUNTY	75	21.7	17%	13%	\$3,259	\$24,490	\$31,514,848	\$11,006	\$10,353,833	\$621,554,097	1.67%
	SUISUN CITY	65	15.8	10%	0%	\$0	\$0	\$26,229,281	\$36,795	\$5,519,674	\$171,872,069	3.21%
	VACAVILLE	68	17.2	11%	0%	\$0	\$0	\$64,217,289	\$34,205	\$19,903,357	\$683,492,172	2.91%
	VALLEJO	50	12.5	5%	6%	\$811	\$14,234	\$279,413,329	\$55,193	\$39,436,270	\$758,841,899	5.20%
Sonoma	CLOVERDALE	64	20.0	18%	100%	\$10	\$10	\$15,200,684	\$36,474	\$2,306,637	\$70,680,533	3.26%
	COTATI	57	14.7	10%	0%	\$0	\$8,898	\$13,499,421	\$48,078	\$2,224,567	\$46,390,533	4.80%
	HEALDSBURG	62	16.9	12%	1%	\$94	\$11,282	\$20,916,295	\$43,317	\$4,038,862	\$100,894,650	4.00%
	PETALUMA	46	10.9	7%	10%	\$162	\$4,423	\$167,027,773	\$23,250	\$25,431,292	\$414,540,397	6.13%
	ROHNERT PARK	68	18.1	15%	22%	\$1,512	\$6,862	\$32,528,398	\$33,745	\$6,986,602	\$216,869,063	3.22%
	SANTA ROSA	62	16.0	11%	40%	\$9,804	\$8,747	\$180,632,254	\$110,803	\$43,179,772	\$1,098,008,437	3.93%
	SEBASTOPOL	65	18.3	14%	1%	\$135	\$11,374	\$8,510,689	\$35,266	\$1,665,614	\$45,793,798	3.64%
	SONOMA	68	20.0	16%	1%	\$280	\$18,928	\$13,437,022	\$35,262	\$2,404,147	\$70,912,976	3.39%
	SONOMA COUNTY	43	7.8	6%	24%	\$1,859	\$7,700	\$867,023,729	\$54,735	\$149,819,776	\$2,354,987,514	6.36%
WINDSOR	69	19.6	12%	34%	\$12,102	\$35,162	\$28,413,036	\$32,542	\$5,631,961	\$179,729,165	3.13%	