

EXHIBIT “15”



An Economic Impact Evaluation of Proposed Storm Water Treatment for Los Angeles County

by

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TABLE OF CONTENTS

<u>Study Overview</u>	1
A. Introduction	1
B. Background	2
C. Key Findings.....	4
D. Conclusion.....	11
<u>Summary of Findings</u>	21
I. Introduction.....	23
II. Estimating Costs for Cases and Scenarios.....	29
II.1 Rainfall Scenarios.....	29
II.2 Construction Cases	31
II.2.1 ENR Construction Cost Index.....	32
II.2.2 Real Estate Costs	32
II.2.3 Engineering Soft Costs	34
II.2.4 Construction Costs.....	34
II.2.5 Collection System Costs	37
II.2.6 Operations and Maintenance Costs	37
II.3 Summary of Cost Estimates	38
III. Economic Impacts.....	42
III.1 Annual Economic Impacts	42
III.2 Net Present Values	56
IV. Discussion	60
References	62
*Appendix A: Worksheet and Supporting Economic Model Outputs: A1-A24	
*Appendix B: October 2002, Draft 303(d) Listings in the Los Angeles Region	

STUDY OVERVIEW

A. Introduction

This study is the most comprehensive analysis to date of the potential costs required to meet new and emerging storm water regulations in the Los Angeles area. It confirms that advanced treatment of storm flows will likely be required to meet current and anticipated federal and state water quality standards. Such treatment will be extremely costly and will generate significantly negative economic consequences for our region. The principal study case, which contemplates 65 treatment plants to accommodate regional storm water requirements, shows that:

- The capital costs required to build new collection and treatment facilities range from \$43.7 billion to treat flows from about 70% of the historic average annual storm events to \$283.9 billion for 97% of the expected storm events.
- The net employment impacts depend on the period studied, a 15-year construction period, or a subsequent period of operations. In the first period, losses range from over 22,000 full-time jobs per year to treat 70% of the annual storm events to 139,000 full-time jobs per year to achieve 97% storm event coverage. The corresponding annual job losses for post-construction plant operations and maintenance range from 59,000 jobs to over 382,000.
- The present value (cost) of the net economic impacts from the project over 20 years ranges from -\$25 billion to treat storms that drop ½ inch per day or less (70% of storms or 22 days per year) to -\$156 billion for 97% coverage, or a six fold increase in costs to treat an average of nine additional days of runoff per year.
- Over 20 years, the present value (cost) of the net economic impacts to El Monte will range from -\$399 million to -\$2.56 billion, -\$492 million to -\$3.17 billion for Inglewood, -\$737 million to -\$4.66 billion for Pasadena, -\$321 million to -\$2.2 billion for Pomona, and -\$1.2 billion to -\$7.7 billion for Torrance.
- The 20 year present value (cost) of the net economic impacts to each L.A. County household for these required storm water facilities ranges from about -\$6,670 to treat the smallest 70% of storms to -\$41,760 to treat 97% of the expected annual storm events.

B. Background

Largely in response to lawsuits brought by environmental advocacy groups, state and federal regulators have dramatically expanded the scope of regional water quality controls to include storm water flows. Municipal Separate Storm Sewer System (MS4) permit provisions issued under the National Pollutant Discharge Elimination System (NPDES) program, together with issuance of the California Toxics Rule and the continuing expansion of the Los Angeles region's list of "impaired" waterbodies are greatly increasing the magnitude and scope of water quality regulations. Considering these developments, this study concludes that:

"It is quite feasible, indeed likely, that the ultimate public policy result to these simultaneous requirements will be advanced treatment of storm water and urban runoff."

Rainfall is naturally infrequent in the semi-arid Los Angeles area. On average, the basin experiences no rainfall, and thus no storm flows, for approximately 333 of 365 days per year (about 91% of the time). On the remaining 32 days per year, rain falling on natural canyons, residential areas, shopping centers, roads and other surfaces infiltrates into the ground or drains into catch basins, pipes, and flood control channels that eventually empty into the ocean. Previous protection programs recognized that there was no rationale for constructing facilities to divert and treat intermittent storm flows and focused on improving regional water quality without such drastic measures.

New state and federal programs, however, are generating numerous stringent water quality standards that even temporary rain-driven storm flows usually exceed. Many of these storm water standards, in fact, are more stringent than those for existing sewage treatment plants. To meet the new requirements, the Los Angeles region must build and maintain a very large network of new collection and treatment facilities, most of which will be idle for the 91% of each year during which no rain falls.

Several studies have estimated the costs of building these facilities, including a widely cited 1998 study for the California Department of Transportation, conducted by the water treatment and environmental engineering firm of Brown & Caldwell. This study found that construction of approximately 480 facilities to divert and treat flows from about 90% of the annual expected storm events would cost approximately \$53.6 billion. The Los Angeles County Sanitation District, which operates most of the region's water treatment plants, subsequently reviewed the Brown & Caldwell study and concluded that the costs were more likely to be in the range of \$65 billion.

Given the magnitude of these cost estimates, a multidisciplinary team of experts from USC was asked to provide an independent, comprehensive assessment of the regulatory requirements and projected storm water treatment costs in the Los Angeles region. The team was composed of environmental, engineering, planning, and economics professionals and employed the following approach:

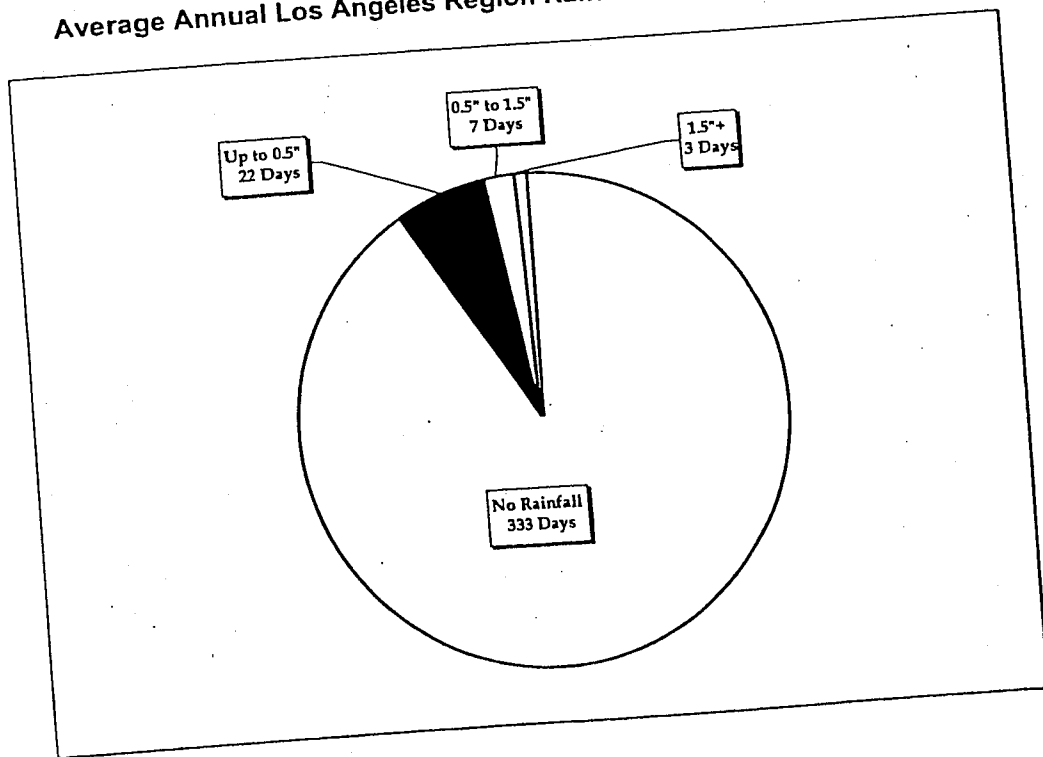
- (1) 70 years of daily rainfall data from 76 local rain gauge stations were analyzed to determine storm patterns and the volume of storm-related flows that would require treatment.
- (2) The rainfall data were divided into three "scenarios" that approximate the 70%, 90% and 97% (22, 29, and 31 of 32 rainfall days respectively) cumulative distribution of the region's historic annual storm frequency.
- (3) For each of the three rainfall scenarios, the 20-year capital and operations and maintenance (O&M) costs required to meet the new storm water regulations were estimated for three facility construction "cases." These cases include: (a) the Brown & Caldwell approach of using similar-size, regionally dispersed plants; (b) siting hydrology-sized plants in each of the 65 regional sub-basins (the study's "highlighted" or base case); and (c) a "political equity" approach that would site 130 hydrology-sized plants among each watershed and political jurisdiction.
- (4) Net employment impacts resulting from treatment facility construction and O&M spending and offsetting household income reductions (largely attributable to associated increased taxes) were estimated for the region and most of the communities in the region.
- (5) The present value of the net economic output generated by facility construction and O&M spending offset by reduced household spending was estimated for the region and most of the communities in the region.
- (6) The present value of the net economic output generated by facility construction and O&M spending offset by reduced household spending was estimated for municipalities within and adjacent to Los Angeles County – highlighted for the examples of El Monte, Inglewood, Pasadena, Pomona and Torrance.
- (7) The present values of the average net economic impacts to each Los Angeles County household for facility construction and operation in each of the construction and rainfall scenarios were estimated.

C. Key Findings

This study confirms that the advanced level of treatment required to meet new and emerging storm water regulations will impose very large burdens on the regional economy. This study's treatment facility capital cost estimate based on the Brown & Caldwell approach is over \$102 billion, which is considerably higher than either the Brown & Caldwell (\$53.6 billion) or the Los Angeles County Sanitation District (\$65 billion) estimate for comparable treatment capacities. Much of the increase is due to this study's use of higher current land costs. Even if land costs are excluded, the study still projects that the Brown & Caldwell treatment case will cost approximately \$64.9 billion to construct.

The study also demonstrates that storm water treatment costs and economic impacts greatly increase with the capacity of the facilities to treat rare, large storm events. On average, the Los Angeles area experiences about 32 days of rainfall per annum. Typically, 22 (70%) of these wet days result in 0-0.5 inches of rain, 0.5-1.5 inches fall on about 7 (20%) wet days, from 1.5 to 2.25 inches are recorded on an average of only 2 (7%) days each year, and more than 2.25" falls about 1 day (3%) per year. Rain-driven storm water treatment facilities are basically idle for approximately 333 of 365 days, or over 91% of the average year (see Chart 1).

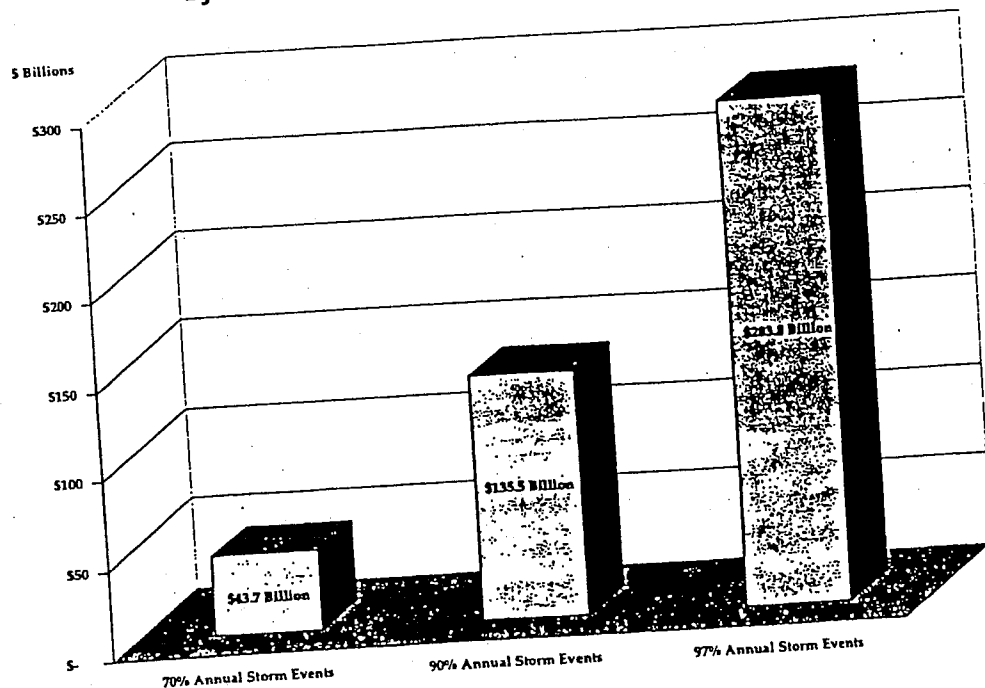
Chart 1
Average Annual Los Angeles Region Rainfall Over the Last 70 Years



The study examines the compliance costs and impacts associated with treatment of storm flows produced by 0-0.5" of rain (22 of 32 wet days, or 70% of the rain events per year), 0-1.25" of rain (the Brown & Caldwell assumption that corresponds to about 29 of 32 wet days or about 90% of the average rain events per year) and a 2.25" one-day storm (statistically about 97% of the average annual storm events). Costs and impacts were found to increase dramatically as storm water treatment capacity approaches the full annual rain event coverage.

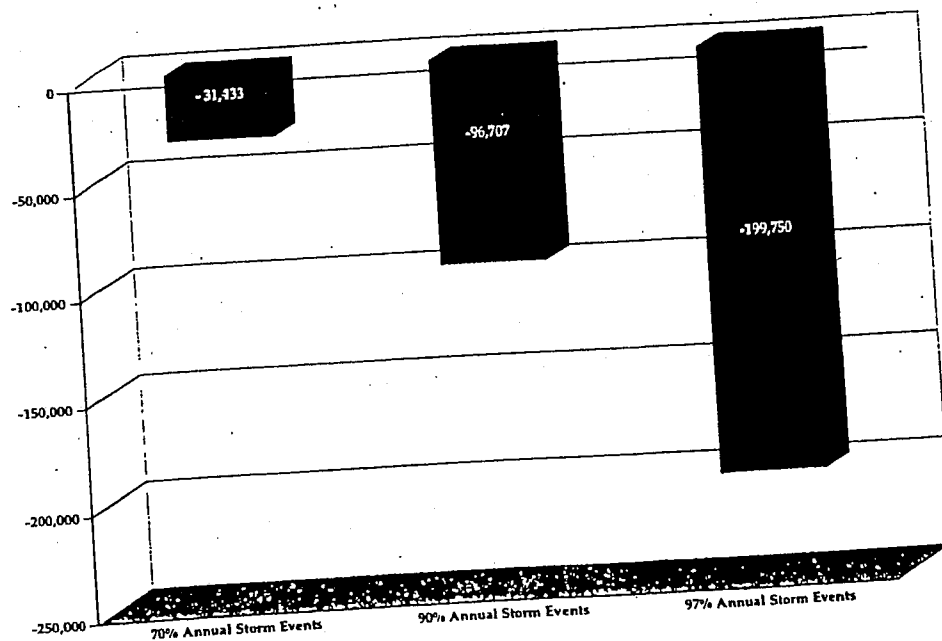
The study highlights the case of 65 plants, one in each major drainage sub-basin of the Los Angeles area, as a reasonably plausible engineering approach to address the region's new storm water discharge standards and requirements. To build a 65-plant system, the study estimates that the region would have to invest \$43.7 billion for new collection and treatment capacity to accommodate the 22 days of flows generated by storms of less than 0.5 inch per day. These capital expenses increase to a total of \$135.5 billion to build the capacity to accommodate the additional seven storm events per year that produce 0.5 - 1.25 inches of rain per day. The cost of facilities that can treat 97% of the average daily rainfall drainage rises to nearly \$283.9 billion. Even assuming that flows from fewer than 70% of the region's annual storm events are treated, advanced facilities will be very costly to construct (see Chart 2).

Chart 2
Collection and Treatment Facility Capital Costs
by Storm Event Scenario for the 65-Plant Case



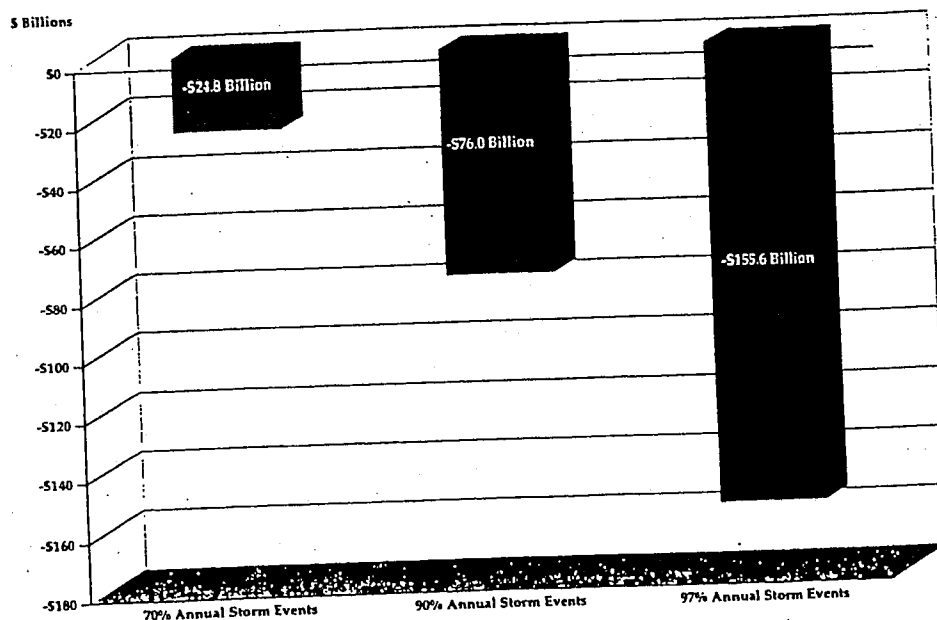
Expenditures of this magnitude will substantially affect the regional economy. The study estimates that the net employment impacts associated with the construction and operation of 65 treatment plants will be strongly negative. Any short-term positive employment stimulus will be more than offset by the long-term household income reductions necessary to pay for the new facilities. During the two decades of analysis, job losses will be larger in years 16-20, after the capital spending for new facilities in years 1-15 is completed. Taking a weighted average of the years from the two periods, the annual full-time equivalent ("person year") job losses will range from approximately 31,400 in the event that flows from 70% of the annual storm events are treated to 199,750 to achieve 97% coverage (see Chart 3).

Chart 3
Annual Net Full-Time Equivalent Employment Impacts
by Storm Event Scenario for the 65-Plant Case



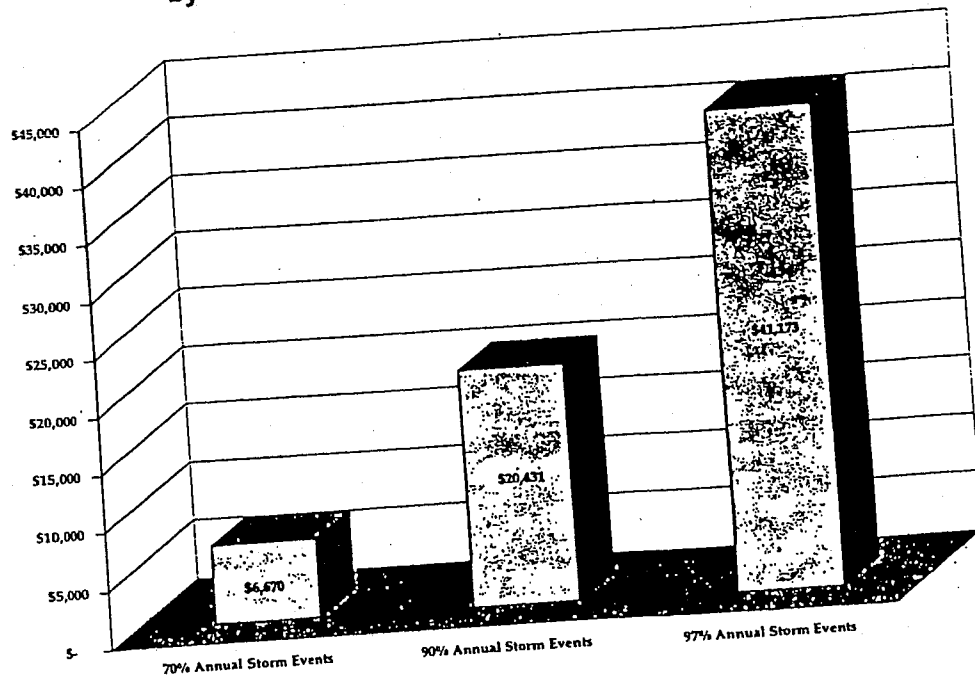
The study also estimates that the present value of the 20-year economic impacts associated with the 65-plant base case is strongly negative, again due primarily to higher taxes and lower household income and spending. The magnitude of these losses is predicted to range from a present value of -\$24.8 billion to build facilities that can treat flows from 70% of the annual storm events to -\$155.6 billion for 97% storm event coverage (see Chart 4).

Chart 4
Present Value of 20-Year Net Output Losses Generated
by Storm Event Scenario for the 65-Plant Case



About 80% of the predicted economic impacts associated with storm water treatment facilities will be focused in Los Angeles County. According to the 2000 census, the County was home to approximately 3 million households. This study estimates that each County household will "pay" (experience a negative economic impact) of about \$6,670 over 20 years to build facilities that can treat 70% of the expected storms and about \$42,000 to achieve 97% storm coverage (see Chart 5).

Chart 5
Present Value of the 20-Year Cost Burden per L.A. County Household
by Storm Event Scenario for the 65-Plant Case



The study's analysis of the dispersed, Brown & Caldwell plant siting approach and 130-plant construction cases is largely consistent with the 65-plant case assessment. In each instance, costs and impacts increase substantially as the storm water treatment capacity approaches full annual storm flow coverage (see Chart 6).

Chart 6
Summary of Study Findings by Construction Case
And Level of Treatment

Construction Case	Treatment Capacity		
	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Collection & Treatment Facility Capital Costs (\$ Bil)			
Dispersed (B&C Approach)	\$37	\$102	\$192
65 Larger Plants	\$44	\$136	\$284
130 Smaller Plants	\$48	\$148	\$326
Present Value of 20-Year Regional Net Output Losses (\$ Bil)			
Dispersed (B&C Approach)	-\$23	-\$64	-\$122
65 Larger Plants	-\$25	-\$76	-\$156
130 Smaller Plants	-\$26	-\$80	-\$170
Present Value of 20-Year Cost per LA County Household			
Dispersed (B&C Approach)	\$6,089	\$17,269	\$32,881
65 Larger Plants	\$6,674	\$20,432	\$41,763
130 Smaller Plants	\$7,064	\$21,469	\$45,605
Average Annual Full Time Equivalent Job Losses			
Dispersed (B&C Approach)	-26,776	-74,899	-141,783
65 Larger Plants	-31,433	-96,707	-199,750
130 Smaller Plants	-32,605	-99,313	-214,463

The study analyzes the net fiscal impact of the three treatment plant cases and three rainfall scenarios for most municipalities in Los Angeles County and in neighboring areas. Most municipalities will experience significant negative economic impacts over 20 years due to the costs of constructing, operating, and financing the required storm water treatment facilities. This result is illustrated in the study with specific reference to five geographically distinct communities, El Monte, Inglewood, Pasadena, Pomona and Torrance (see Chart 7).

Chart 7
Summary of Present Value of Net Economic Losses Over 20 Years
by Community, Construction Case, and Level of Treatment (\$ Millions)

	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Dispersed (B&C Approach)			
El Monte	-\$225	-\$548	-\$1,069
Inglewood	-\$180	-\$489	-\$1,392
Pasadena	-\$458	-\$1,626	-\$3,252
Pomona	-\$10	-\$133	-\$499
Torrance	-\$561	-\$2,470	-\$4,485
65 Larger Plants			
El Monte	-\$399	-\$1,232	-\$2,569
Inglewood	-\$492	-\$1,522	-\$3,174
Pasadena	-\$737	-\$2,188	-\$4,664
Pomona	-\$321	-\$1,061	-\$2,230
Torrance	-\$1,201	-\$3,714	-\$7,745
130 Smaller Plants			
El Monte	-\$238	-\$915	-\$2,064
Inglewood	-\$427	-\$1,428	-\$3,143
Pasadena	-\$942	-\$2,978	-\$6,483
Pomona	-\$167	-\$854	-\$1,887
Torrance	-\$1,075	-\$3,382	-\$7,497

D. Conclusion

This study is consistent with previous analyses of Los Angeles County storm water cost burdens. It demonstrates that the collection and treatment of storm flows would very likely have enormous economic and policy consequences for our region. While the impact on the greater Southern California region is described in detail in Appendix A of this study, Charts 8, 9, and 10 summarize the consequences for each MS4 Permit city, the Los Angeles County unincorporated area, and many communities within the permit jurisdiction. Chart 8 is based on the results for the principal 65 treatment plant analysis, while Chart 9 summarizes the 130 treatment plant analysis, and Chart 10 is based on assumptions similar to those used in the 1998 Brown and Caldwell report for the California Department of Transportation.

- New regulations and standards increasingly require, for the first time, that communities throughout Los Angeles County collect and treat intermittent storm flows with advanced, expensive technology. ***Despite considerable population gains, regional water quality has been improving over time without such requirements.***
- To meet these new mandates, communities in the greater Los Angeles and surrounding areas must construct, maintain and operate a very large network of collection and treatment plants and facilities that presently does not exist. ***Most of these new facilities will remain idle for more than 90% of the time each year.***
- The cost and size of the new collection and treatment facilities increase substantially as they are designed to accommodate a larger number of expected annual rain events. ***It will cost about six times more to build a system that can handle 97% versus 70% of the region's annual average storm days, or to achieve about 9 additional days of storm event coverage.***
- Over the twenty-year period analyzed in the report, most communities in the greater Los Angeles area will experience very significant employment and net economic losses caused by the new storm water regulations. ***The region as a whole is projected to lose from 27,000 to 214,000 full time jobs per year and suffer a net economic loss of from \$23 billion to \$170 billion to collect and treat intermittent storm flows.***

Chart 8

NET ECONOMIC IMPACT IN LOS ANGELES COUNTY BY CITY AND CDP, YEARS 1-20			
85 SMALLER PLANTS			
City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Acton	-\$58,536	-\$377,647	-\$825,425
Agoura Hills	-\$20,178,314	-\$100,646,676	-\$232,085,757
Alhambra	-\$368,577,816	-\$1,133,077,137	-\$2,362,102,206
Alondra Park	-\$19,742,466	-\$61,038,797	-\$127,311,488
Altadena	-\$102,904,071	-\$318,186,490	-\$663,788,483
Arcadia	-\$367,695,271	-\$1,137,180,717	-\$2,371,699,940
Artesia	-\$135,587,368	-\$419,203,608	-\$874,356,212
Avocado Heights	-\$70,208,320	-\$216,906,214	-\$451,682,050
Azusa	\$1,419,848,688	\$4,669,061,039	\$10,283,191,920
Baldwin Park	-\$173,306,074	-\$536,095,302	-\$1,118,251,375
Bell	-\$131,845,553	-\$407,848,009	-\$850,266,664
Bellflower	-\$253,509,284	-\$783,851,463	-\$1,635,179,255
Bell Gardens	-\$108,655,082	-\$335,989,696	-\$700,890,412
Beverly Hills	-\$561,880,841	-\$1,736,176,437	-\$3,616,973,383
Bradbury	-\$5,573,746	-\$17,256,587	-\$35,987,456
Burbank	-\$650,627,462	-\$2,010,966,543	-\$4,191,783,190
Calabasas	\$12,417,334	\$287,817	\$32,277,444
Carson	-\$406,589,609	-\$1,256,045,981	-\$2,615,420,637
Cerritos	-\$316,216,089	-\$977,353,178	-\$2,037,215,929
Charter Oak	-\$35,188,709	-\$108,824,200	-\$227,102,310
Citrus	-\$19,546,643	-\$60,452,328	-\$128,166,610
Claremont	-\$97,090,427	-\$365,108,012	-\$802,796,288
Commerce	-\$201,806,058	-\$622,345,846	-\$1,293,978,132
Compton	-\$276,514,908	-\$854,675,971	-\$1,781,606,932
Covina	-\$303,009,404	-\$937,030,571	-\$1,954,684,721
Cudahy	-\$56,668,591	-\$175,243,436	-\$365,671,625
Culver City	-\$484,142,453	-\$1,496,752,173	-\$3,121,436,891
Del Aire	-\$48,137,206	-\$148,785,384	-\$310,148,668
Diamond Bar	-\$96,039,610	-\$334,625,486	-\$700,654,464
Downey	-\$417,548,584	-\$1,290,561,844	-\$2,690,105,232
Duarte	-\$52,123,981	-\$154,486,817	-\$309,024,614
East Compton	-\$9,490,971	-\$29,342,488	-\$61,195,741
East La Mirada	-\$17,759,367	-\$54,808,194	-\$114,527,036
East Los Angeles	-\$264,853,793	-\$818,335,578	-\$1,704,646,929
East Pasadena	-\$103,337,722	-\$319,625,942	-\$667,206,980
East San Gabriel	-\$63,461,996	-\$196,298,234	-\$409,802,202
El Monte	-\$398,858,472	-\$1,232,230,196	-\$2,568,760,027
El Segundo	\$705,854,813	\$2,129,079,443	\$4,269,428,470
Florence-Graham	-\$92,408,679	-\$285,631,218	-\$595,432,112

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Gardena	-\$324,601,630	-\$1,003,600,452	-\$2,093,294,791
Gendale	-\$1,020,336,089	-\$3,159,794,904	-\$6,646,513,484
Gendora	-\$133,384,161	-\$395,528,141	-\$791,625,672
Hacienda Heights	-\$148,625,031	-\$459,517,049	-\$958,448,555
Hawaiian Gardens	-\$33,400,030	-\$103,253,630	-\$215,314,673
Hawthorne	-\$308,583,416	-\$954,072,751	-\$1,990,239,062
Hermosa Beach	-\$160,161,692	-\$495,298,598	-\$1,033,562,537
Hidden Hills	-\$6,324,301	-\$19,500,851	-\$40,453,889
Huntington Park	-\$232,234,227	-\$718,038,792	-\$1,497,761,126
Industry	-\$339,035,437	-\$1,112,864,892	-\$2,300,801,567
Inglewood	-\$492,288,935	-\$1,521,964,606	-\$3,174,115,672
Inwindale	\$23,460,475	\$11,041,421	-\$33,688,226
La Canada Flintridge	-\$99,418,311	-\$307,232,191	-\$641,070,936
La Crescenta-Montrose	-\$74,808,595	-\$231,842,699	-\$483,329,614
Ladera Heights	-\$26,948,069	-\$83,278,991	-\$173,541,933
La Habra Heights	-\$84,240,434	-\$151,623,481	-\$319,764,598
Lakewood	-\$391,503,458	-\$1,210,712,325	-\$2,526,394,885
La Mirada	-\$127,903,450	-\$395,100,735	-\$822,625,496
La Puente	-\$102,693,555	-\$317,584,488	-\$662,738,355
La Verne	\$85,854,733	\$179,359,824	\$346,705,316
Lawndale	-\$118,403,168	-\$366,150,177	-\$764,016,107
Lennox	-\$57,091,337	-\$176,525,575	-\$368,236,270
Lomita	-\$114,802,906	-\$355,045,717	-\$740,965,425
Long Beach	\$1,237,469,238	\$3,880,108,741	\$8,230,318,918
Los Angeles	-\$9,958,406,520	-\$29,837,656,414	-\$61,552,800,902
Lynwood	-\$131,659,211	-\$407,020,916	-\$848,791,302
Malibu	\$240,678,433	\$497,397,993	\$868,215,926
Manhattan Beach	-\$285,044,946	-\$881,704,986	-\$1,840,549,945
Marina del Rey	-\$106,451,514	-\$329,053,901	-\$686,147,315
Mayflower Village	-\$9,421,386	-\$29,135,404	-\$60,797,072
Maywood	-\$70,155,384	-\$216,825,395	-\$451,914,934
Monrovia	-\$140,490,768	-\$538,004,592	-\$1,065,512,788
Montebello	-\$306,899,880	-\$949,301,777	-\$1,980,725,983
Monterey Park	-\$245,365,944	-\$758,457,245	-\$1,581,301,876
North El Monte	-\$8,048,714	-\$24,875,082	-\$51,842,700
Norwalk	-\$280,994,426	-\$868,695,965	-\$1,811,581,942
Palos Verdes Estates	-\$28,164,084	-\$87,034,330	-\$181,354,607
Paramount	-\$144,131,424	-\$445,411,887	-\$928,148,470
Pasadena	-\$736,509,128	-\$2,187,569,594	-\$4,664,167,914
Pico Rivera	\$2,204,838,494	\$6,800,529,265	\$14,188,392,816
Pomona	-\$321,254,696	-\$1,060,623,305	-\$2,229,806,257
Rancho Palos Verdes	-\$150,423,089	-\$465,245,084	-\$971,110,323
Redondo Beach	-\$392,037,256	-\$1,212,166,333	-\$2,528,615,198

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Rolling Hills	-\$2,982,642	-\$9,158,307	-\$19,097,125
Rolling Hills Estates	-\$47,019,722	-\$145,433,221	-\$303,587,641
Rosemead	-\$165,983,590	-\$513,011,854	-\$1,069,195,335
Rowland Heights	-\$187,576,442	-\$579,910,857	-\$1,209,416,029
San Dimas	-\$66,480,841	-\$290,243,744	-\$588,495,245
San Fernando	\$191,100,455	\$604,512,811	\$1,137,541,074
San Gabriel	-\$193,913,821	-\$599,625,469	-\$1,251,048,809
San Marino	-\$43,964,435	-\$135,875,472	-\$283,190,267
Santa Clarita	\$3,044,177,510	\$10,887,146,045	\$25,293,923,794
Santa Fe Springs	-\$151,393,580	-\$466,887,269	-\$968,831,124
Santa Monica	-\$927,352,193	-\$2,868,209,768	-\$5,974,246,103
Sierra Madre	-\$42,866,728	-\$132,540,689	-\$276,474,313
Signal Hill	-\$78,821,236	-\$243,369,988	-\$506,232,893
South El Monte	-\$60,190,653	-\$185,848,376	-\$386,601,443
South Gate	-\$252,475,412	-\$780,576,831	-\$1,628,011,287
South Pasadena	-\$128,019,914	-\$395,729,888	-\$825,081,697
South San Gabriel	-\$18,463,116	-\$57,078,705	-\$119,032,146
South San Jose Hills	-\$21,624,542	-\$66,868,512	-\$139,515,617
South Whittier	-\$104,530,034	-\$323,163,257	-\$673,955,392
Temple City	-\$138,787,412	-\$429,177,228	-\$895,492,871
Torrance	-\$1,201,424,130	-\$3,714,032,033	-\$7,744,554,176
Valinda	-\$50,091,383	-\$154,921,719	-\$323,342,242
Val Verde	-\$1,304,330	-\$4,049,084	-\$7,981,178
Vernon	-\$112,764,628	-\$347,548,285	-\$720,322,609
View Park-Windsor Hills	-\$34,095,044	-\$105,385,140	-\$219,687,706
Vincent	-\$58,318,124	-\$180,360,023	-\$376,398,698
Walnut	-\$60,597,798	-\$187,583,706	-\$390,782,153
Walnut Park	-\$35,958,412	-\$111,191,259	-\$231,986,664
West Athens	-\$17,678,731	-\$54,644,346	-\$113,918,192
West Carson	-\$87,643,603	-\$270,893,461	-\$564,684,416
West Compton	-\$24,319,366	-\$75,008,865	-\$155,685,581
West Covina	-\$449,892,865	-\$1,391,230,859	-\$2,902,883,619
West Hollywood	-\$425,358,337	-\$1,314,821,457	-\$2,741,202,538
Westlake Village	\$20,845,414	\$20,161,544	-\$2,682,856
Westmont	-\$51,990,031	-\$160,754,176	-\$335,348,175
West Puente Valley	-\$20,895,443	-\$64,584,460	-\$134,625,532
West Whittier-Los Nietos	-\$85,576,299	-\$202,780,833	-\$422,985,362
Whittier	-\$297,661,026	-\$938,649,143	-\$1,956,281,331
Willowbrook	-\$84,626,418	-\$199,646,389	-\$415,710,877
LOS ANGELES - UNINCOR	\$2,019,749,885	\$5,041,152,264	\$9,814,300,143
Total	-\$18,776,308,256	-\$57,436,098,900	-\$117,227,732,638

Source: Table A25

Chart 9

NET ECONOMIC IMPACT IN LOS ANGELES COUNTY BY CITY AND CDP, YEARS 1-20

130 SMALLER PLANTS

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Acton	-\$190,607	-\$738,710	-\$1,791,204
Agoura Hills	-\$30,583,528	-\$127,608,263	-\$311,024,970
Alhambra	-\$348,696,221	-\$1,121,189,624	-\$2,495,853,499
Alondra Park	\$121,687,214	\$212,258,121	\$468,362,890
Altadena	-\$112,274,692	-\$342,837,266	-\$751,689,103
Arcadia	-\$284,555,689	-\$976,160,249	-\$2,182,880,494
Artesia	-\$147,563,856	-\$451,054,674	-\$988,691,143
Avocado Heights	-\$76,199,427	-\$232,996,658	-\$509,377,822
Azusa	-\$179,013,647	-\$546,844,224	-\$1,198,158,587
Baldwin Park	-\$180,979,110	-\$562,241,769	-\$1,234,745,276
Bell	-\$52,079,548	-\$263,524,164	-\$626,895,276
Bellflower	-\$275,778,659	-\$843,221,275	-\$1,847,985,719
Bell Gardens	-\$82,228,460	-\$282,306,577	-\$677,596,487
Beverly Hills	-\$609,722,976	-\$1,863,631,130	-\$4,076,779,846
Bradbury	-\$6,101,660	-\$18,636,994	-\$40,849,880
Burbank	-\$557,798,042	-\$1,757,971,765	-\$3,881,483,007
Calabasas	\$38,573,401	\$43,193,812	\$58,802,100
Carson	-\$233,098,438	-\$760,485,146	-\$1,781,548,888
Cerritos	-\$49,266,778	-\$480,747,875	-\$1,013,988,906
Charter Oak	-\$38,411,324	-\$117,336,767	-\$257,325,019
Citrus	-\$20,072,352	-\$61,872,535	-\$135,818,268
Claremont	-\$169,418,516	-\$517,515,854	-\$1,133,177,568
Commerce	-\$139,945,848	-\$515,997,782	-\$1,129,005,959
Compton	-\$248,102,048	-\$818,269,103	-\$1,847,998,254
Covina	-\$109,445,885	-\$444,089,711	-\$994,204,757
Cudahy	-\$60,257,927	-\$185,880,442	-\$408,503,754
Culver City	-\$527,921,266	-\$1,812,355,726	-\$3,532,420,048
Del Aire	-\$52,452,444	-\$160,177,567	-\$350,688,077
Diamond Bar	-\$78,850,537	-\$289,762,486	-\$647,769,689
Downey	-\$353,243,112	-\$1,193,909,677	-\$2,711,652,150
Duarte	-\$64,440,868	-\$237,073,448	-\$561,425,251
East Compton	-\$9,481,302	-\$29,952,301	-\$66,560,576
East La Mirada	-\$19,369,802	-\$59,161,030	-\$129,642,309
East Los Angeles	-\$208,052,776	-\$725,059,273	-\$1,594,076,044
East Pasadena	-\$112,072,828	-\$342,572,697	-\$761,829,703
East San Gabriel	\$224,205,154	\$624,657,151	\$1,287,022,746
El Monte	-\$237,577,213	-\$914,853,560	-\$2,063,928,943
El Segundo	-\$108,165,792	-\$387,614,269	-\$892,461,845
Florence-Graham	-\$100,138,804	-\$306,448,815	-\$671,572,759

City and CDP	70% Annual Storm Events	80% Annual Storm Events	97% Annual Storm Events
Gardena	-\$292,755,651	-\$962,644,806	-\$2,120,862,833
Gendale	-\$1,299,020,953	-\$3,968,587,196	-\$8,694,861,728
Gendora	-\$254,380,067	-\$776,982,881	-\$1,702,962,650
Hacienda Heights	-\$162,119,743	-\$495,161,141	-\$1,085,042,789
Hawaiian Gardens	-\$36,049,696	-\$110,507,400	-\$242,140,792
Hawthorne	-\$308,588,234	-\$973,716,061	-\$2,124,316,540
Hermosa Beach	-\$110,931,299	-\$408,162,429	-\$941,946,852
Hidden Hills	\$1,620,908	-\$4,505,056	-\$18,221,742
Huntington Park	-\$253,317,808	-\$773,718,792	-\$1,695,623,282
Industry	-\$259,757,617	-\$937,616,006	-\$2,088,134,092
Inglewood	-\$427,401,840	-\$1,427,949,647	-\$3,142,728,627
Irwindale	\$96,688,934	\$141,797,695	\$276,409,496
La Canada Flintridge	-\$108,697,612	-\$332,186,833	-\$727,972,339
La Crescenta-Montrose	-\$81,749,722	-\$249,712,937	-\$547,496,269
Ladera Heights	-\$29,345,962	-\$89,607,258	-\$196,089,950
La Habra Heights	-\$17,812,157	-\$58,328,822	-\$131,806,724
Lakewood	-\$282,263,713	-\$1,026,365,263	-\$2,319,385,610
La Mirada	-\$139,134,008	-\$424,740,597	-\$928,239,976
La Puente	-\$52,787,183	-\$224,867,323	-\$548,311,951
La Verne	-\$137,152,289	-\$419,769,832	-\$920,605,971
Lawndale	-\$91,647,500	-\$321,210,784	-\$735,215,976
Lennox	-\$62,281,282	-\$190,247,387	-\$416,971,351
Lomita	-\$124,876,886	-\$381,976,729	-\$838,200,071
Long Beach	\$4,132,207,785	\$13,536,333,892	\$30,550,648,495
Los Angeles	-\$12,141,945,399	-\$36,972,850,382	-\$79,875,809,304
Lynwood	-\$141,985,997	-\$435,424,141	-\$955,559,116
Malibu	\$273,088,211	\$751,869,036	\$1,577,559,337
Manhattan Beach	-\$227,261,994	-\$788,339,976	-\$1,788,895,571
Marina del Rey	-\$116,446,290	-\$355,610,331	-\$778,681,569
Mayflower Village	\$2,146,766	-\$7,829,375	-\$32,626,373
Maywood	-\$25,195,250	-\$136,637,876	-\$361,603,910
Monrovia	-\$240,823,679	-\$747,484,814	-\$1,849,416,065
Montebello	-\$349,100,779	-\$1,066,991,957	-\$2,338,041,485
Monterey Park	-\$188,027,600	-\$662,988,142	-\$1,459,891,108
North El Monte	\$29,792,684	\$63,716,023	\$134,747,437
Norwalk	-\$304,357,432	-\$930,444,455	-\$2,038,745,148
Palos Verdes Estates	\$49,273,613	\$62,726,552	\$66,238,529
Paramount	\$49,098,828	-\$83,417,279	-\$251,242,591
Pasadena	-\$941,843,317	-\$2,977,709,897	-\$6,483,083,765
Pico Rivera	\$1,322,779	\$35,586,317	-\$11,200,289
Pomona	-\$167,382,539	-\$854,342,508	-\$1,886,823,351
Rancho Palos Verdes	-\$37,890,384	-\$254,584,236	-\$665,897,252
Redondo Beach	-\$375,440,036	-\$1,203,684,730	-\$2,684,701,189

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Rolling Hills	-\$1,489,957	-\$6,421,212	-\$15,561,076
Rolling Hills Estates	-\$51,275,326	-\$156,724,173	-\$343,916,561
Rosemead	\$2,601,693	-\$197,152,880	-\$521,632,621
Rowland Heights	-\$204,552,573	-\$624,740,420	-\$1,366,748,837
San Dimas	-\$93,394,404	-\$384,466,150	-\$812,028,268
San Fernando	-\$157,016,818	-\$479,565,735	-\$1,050,749,366
San Gabriel	-\$152,719,891	-\$528,994,112	-\$1,200,851,013
San Marino	-\$41,831,769	-\$129,265,845	-\$284,726,051
Santa Clarita	\$4,536,851,743	\$17,715,433,393	\$42,549,462,108
Santa Fe Springs	-\$18,205,510	-\$104,606,279	-\$261,891,536
Santa Monica	-\$1,008,919,994	-\$3,082,514,181	-\$6,747,168,557
Sierra Madre	-\$46,523,030	-\$142,361,383	-\$312,151,955
Signal Hill	-\$85,361,896	-\$260,822,064	-\$569,482,420
South El Monte	-\$17,500,275	-\$107,811,371	-\$265,449,106
South Gate	-\$168,639,876	-\$636,481,597	-\$1,506,693,193
South Pasadena	-\$139,431,789	-\$425,915,120	-\$932,858,487
South San Gabriel	-\$20,131,095	-\$61,482,954	-\$134,693,161
South San Jose Hills	-\$8,066,588	-\$41,404,544	-\$88,926,868
South Whittier	-\$113,990,823	-\$348,150,624	-\$762,748,439
Temple City	-\$119,226,780	-\$386,997,900	-\$852,725,661
Torrance	-\$1,074,550,213	-\$3,381,805,512	-\$7,497,063,527
Valinda	-\$54,690,049	-\$167,070,070	-\$366,460,365
Val Verde	-\$63,378	-\$193,417	-\$422,005
Vernon	-\$121,783,817	-\$371,288,016	-\$805,821,883
View Park-Windsor Hills	-\$37,154,707	-\$113,483,150	-\$248,426,613
Vincent	-\$61,329,965	-\$189,984,123	-\$416,763,164
Walnut	-\$64,667,574	-\$199,002,283	-\$435,472,280
Walnut Park	-\$39,236,089	-\$119,848,010	-\$262,738,823
West Athens	-\$19,265,071	-\$58,832,190	-\$128,819,488
West Carson	-\$95,500,089	-\$291,634,650	-\$638,490,782
West Compton	-\$26,340,298	-\$80,339,259	-\$174,736,166
West Covina	-\$316,523,971	-\$1,154,725,148	-\$2,526,766,030
West Hollywood	-\$463,208,503	-\$1,415,018,830	-\$3,088,979,844
Westlake Village	\$24,234,310	\$22,692,651	-\$1,370,119
Westmont	-\$56,721,853	-\$173,252,544	-\$379,735,667
West Puente Valley	\$146,703,455	\$367,110,940	\$756,701,596
West Whittier-Los Nietos	-\$71,547,945	-\$218,536,295	-\$478,962,978
Whittier	-\$300,511,734	-\$986,402,329	-\$2,221,186,060
Willowbrook	-\$70,347,037	-\$214,759,141	-\$468,374,571
LOS ANGELES - UNINCOR	\$1,439,855,107	\$5,011,597,587	\$11,748,122,399
Total	-\$19,826,871,709	-\$80,232,245,005	-\$127,641,574,464

Source: Table A25

Chart 10

NET ECONOMIC IMPACT IN LOS ANGELES COUNTY BY CITY AND CDP, YEARS 1-20			
Dispersed (B & C) Approach			
City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Acton	\$3,266,993	\$9,050,739	\$14,226,237
Agoura Hills	-\$34,223,169	\$39,226,958	\$59,218,563
Alhambra	-\$314,567,802	-\$552,439,929	-\$1,109,025,349
Alondra Park	\$98,580,146	-\$46,684,620	-\$87,859,344
Altadena	-\$88,165,294	-\$242,674,035	-\$264,309,908
Arcadia	-\$75,237,112	-\$764,673,985	-\$1,239,296,804
Artesia	-\$116,223,749	-\$317,071,331	-\$497,679,512
Avocado Heights	-\$60,632,049	\$56,008,475	-\$27,212,396
Azusa	-\$140,780,786	-\$38,778,311	-\$608,586,731
Baldwin Park	\$88,309,368	\$14,706,310	-\$449,076,335
Bel	-\$113,274,865	-\$204,053,557	-\$215,589,326
Bellflower	\$20,563,054	-\$176,775,874	-\$816,878,351
Bell Gardens	-\$93,080,057	-\$153,769,878	-\$276,244,480
Beverly Hills	-\$483,325,277	-\$1,335,700,807	-\$2,404,697,684
Bradbury	\$1,564,980	-\$1,997,990	\$182,309,991
Burbank	-\$557,010,167	-\$805,729,811	-\$2,380,667,043
Calabasas	\$84,871,262	\$245,004,675	\$368,718,713
Carson	-\$350,492,189	-\$797,843,362	-\$1,075,976,072
Cerritos	-\$33,268,744	-\$217,042,577	-\$479,918,835
Charter Oak	-\$30,114,612	\$8,645,550	-\$7,572,205
Citrus	-\$15,848,788	-\$12,239,881	\$60,884,933
Claremont	-\$41,760,497	-\$58,612,064	\$39,377,861
Commerce	-\$53,694,386	-\$376,467,740	-\$774,178,311
Compton	-\$237,004,761	-\$166,322,052	-\$484,094,937
Covina	-\$28,241,680	-\$132,057,527	-\$890,230,264
Cudahy	-\$48,515,058	-\$130,896,320	-\$145,952,195
Culver City	-\$414,936,146	-\$1,015,826,736	-\$2,151,114,189
Del Aire	-\$41,192,229	-\$114,135,823	-\$214,701,188
Diamond Bar	-\$111,440,386	-\$229,402,706	-\$226,730,397
Downey	-\$122,436,799	-\$351,049,921	-\$929,683,604
Duarte	\$144,592,657	\$74,876,114	-\$6,450,454
East Compton	-\$8,137,796	-\$22,452,747	\$22,651,080
East La Mirada	-\$15,222,514	-\$41,993,211	-\$78,992,173
East Los Angeles	\$126,477,115	-\$219,056,074	-\$457,676,161
East Pasadena	-\$88,358,849	-\$242,728,977	-\$457,673,687
East San Gabriel	\$33,174,020	-\$149,445,949	-\$179,260,981
El Monte	-\$225,058,903	-\$548,440,937	-\$1,069,047,771
El Segundo	-\$129,075,304	-\$233,285,967	-\$676,561,730
Florence-Graham	\$41,212,813	\$93,567,088	\$88,224,371

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Gardena	-\$278,265,536	-\$427,442,090	-\$1,337,853,647
Gendale	-\$534,927,237	-\$2,171,535,570	-\$4,256,823,239
Gendora	\$27,942,202	\$79,193,608	-\$261,474,907
Hacienda Heights	-\$127,419,504	\$69,227,664	-\$69,718,281
Hawaiian Gardens	-\$4,530,188	-\$78,695,154	-\$1,680,935
Hawthorne	-\$251,537,010	-\$684,993,837	-\$935,022,718
Hermosa Beach	-\$137,085,894	-\$377,443,434	-\$710,397,462
Hidden Hills	-\$5,006,030	\$49,331,906	\$33,646,051
Huntington Park	-\$199,029,991	-\$443,042,672	-\$700,070,111
Industry	-\$338,128,258	-\$839,537,707	-\$1,412,764,853
Inglewood	-\$179,923,074	-\$489,047,765	-\$1,391,568,948
Irwindale	-\$28,444,473	-\$83,543,110	-\$53,392,420
La Canada Flintridge	\$174,030,919	-\$112,209,814	-\$115,822,894
La Crescenta-Montrose	\$144,149,956	\$5,566,922	-\$253,726,877
Ladera Heights	-\$23,160,671	-\$63,937,239	-\$10,339,228
La Habra Heights	-\$96,013,430	-\$69,181,178	-\$21,748,155
Lakewood	-\$233,845,344	-\$375,930,581	-\$630,777,799
La Mirada	-\$110,258,788	-\$98,767,144	\$39,280,038
La Puente	\$27,039,842	-\$27,431,838	\$78,410,680
La Verne	\$98,572,373	-\$240,598,224	-\$14,511,341
Lawndale	-\$100,037,976	-\$279,470,977	-\$211,547,842
Lennox	\$54,401,166	-\$29,372,024	-\$5,253,369
Lomita	-\$98,240,666	-\$269,521,572	-\$403,431,158
Long Beach	-\$523,113,360	-\$834,128,180	-\$1,089,302,477
Los Angeles	-\$9,800,604,653	-\$25,196,415,687	-\$48,507,165,695
Lynwood	\$7,457,113	\$12,747,776	-\$379,917,199
Malibu	-\$8,392,094	\$41,124,983	\$106,425,951
Manhattan Beach	-\$246,944,554	-\$427,133,511	-\$734,984,772
Marina del Rey	-\$91,725,913	-\$253,223,178	-\$476,028,208
Mayflower Village	-\$8,065,756	-\$22,179,039	\$28,206,433
Maywood	-\$60,277,586	-\$61,403,067	-\$119,460,841
Monrovia	-\$187,865,437	-\$527,483,334	-\$555,391,872
Montebello	-\$274,861,609	-\$440,739,579	-\$1,216,676,850
Monterey Park	\$30,286,351	-\$580,280,206	-\$258,535,289
North El Monte	-\$6,916,961	-\$19,104,550	\$595,935
Norwalk	-\$4,074,235	-\$237,526,051	-\$118,007,385
Palos Verdes Estates	-\$24,123,213	\$54,515,720	\$200,763,248
Paramount	-\$3,257,780	-\$124,101,228	\$92,309,041
Pasadena	-\$458,095,835	-\$1,626,499,474	-\$3,252,448,668
Pico Rivera	-\$166,774,348	-\$37,258,110	-\$138,574,203
Pomona	-\$10,391,182	-\$133,339,475	-\$499,319,676
Rancho Palos Verdes	-\$128,848,011	\$84,476,317	-\$402,399,713
Redondo Beach	-\$211,281,981	-\$925,665,708	-\$1,408,616,036

City and CDP	70% Annual Storm Events	90% Annual Storm Events	97% Annual Storm Events
Rolling Hills	-\$2,541,440	-\$5,300,201	-\$10,638,039
Rolling Hills Estates	-\$40,201,697	-\$66,422,486	\$20,134,458
Rosemead	-\$142,914,073	-\$389,585,784	-\$331,935,847
Rowland Heights	-\$42,025,444	-\$230,217,693	-\$624,359,586
San Dimas	-\$5,848,421	-\$104,340,903	-\$509,935,046
San Fernando	-\$123,452,678	-\$340,607,580	-\$637,172,535
San Gabriel	-\$166,071,158	-\$425,648,437	-\$552,278,183
San Marino	-\$37,200,174	-\$104,047,467	-\$89,397,800
Santa Clarita	\$1,112,113,071	\$2,408,232,864	\$4,344,382,431
Santa Fe Springs	-\$42,339,287	-\$239,176,693	-\$375,270,676
Santa Monica	-\$669,169,695	-\$1,814,980,094	-\$3,918,782,108
Sierra Madre	-\$36,116,716	\$3,432,382	-\$86,052,834
Signal Hill	-\$66,327,490	-\$187,169,813	-\$252,170,143
South B Monte	\$9,590,384	-\$34,555,984	-\$133,069,392
South Gate	-\$215,671,073	-\$384,532,598	-\$700,903,309
South Pasadena	-\$108,802,223	-\$197,708,235	-\$362,176,844
South San Gabriel	-\$15,744,852	-\$43,693,108	-\$82,238,110
South San Jose Hills	-\$18,518,651	-\$34,690,079	\$113,602,486
South Whittier	\$171,906,517	-\$45,095,863	\$201,584,477
Temple City	-\$85,691,006	-\$222,127,181	-\$585,891,041
Torrance	-\$561,063,814	-\$2,469,627,537	-\$4,485,106,148
Valinda	-\$42,852,578	-\$104,014,932	-\$5,364,233
Val Verde	\$394,829	\$999,485	\$1,915,698
Vernon	-\$98,541,915	-\$68,988,901	-\$393,987,119
View Park-Windsor Hills	-\$28,756,740	-\$80,830,181	-\$151,918,981
Vincent	-\$40,753,944	-\$16,825,296	-\$213,897,272
Walnut	-\$51,004,229	-\$143,354,244	-\$251,808,712
Walnut Park	-\$30,795,120	-\$82,677,730	\$151,149,185
West Athens	-\$15,177,270	-\$36,919,789	\$25,755,321
West Carson	-\$75,263,735	-\$205,978,318	-\$179,154,449
West Compton	-\$21,179,784	-\$58,639,872	\$32,252,357
West Covina	-\$40,916,681	-\$418,885,863	-\$680,418,757
West Hollywood	-\$365,081,309	-\$1,003,100,721	-\$1,792,331,284
Westlake Village	\$279,541,398	\$235,154,034	\$533,090,517
Westmont	-\$44,548,646	-\$120,834,391	-\$19,138,610
West Puente Valley	-\$14,299,901	\$27,573,224	\$25,266,106
West Whittier-Los Nietos	-\$55,314,393	-\$66,087,826	-\$64,167,813
Whittier	-\$41,230,695	-\$270,536,674	-\$815,846,946
Willowbrook	\$65,467,839	-\$31,893,890	\$26,703,795
LOS ANGELES - UNINCOR	\$2,044,055,068	\$5,471,978,073	\$10,400,806,666
Total	-\$17,294,414,960	-\$49,123,918,352	-\$93,588,595,355
Source: Table A25			

SUMMARY OF FINDINGS

- ◆ The NPDES (National Pollutant Discharge Elimination System) requires advanced treatment of storm water. This study provides new estimates to compare with the results of earlier studies under a wide variety of "what if" combinations of cases and scenarios.
- ◆ Capital costs and operating and maintenance costs vary widely among nine combinations of rainfall scenarios and construction cases. Cases I, II and III refer to three alternative treatment plant facility allocations: 480 plants (each with 42.5 million gallons capacity; 65 plants (one for each sub-basin); and 130 plants (one for each city and unincorporated area, with more than one for cities straddling sub-basins. Rainfall Scenarios are: I. 1.25" of precipitation in 24 hours; II. 0.5" precipitation in 24 hours; and III. 2.25" of precipitation in 24 hours with a three-day runoff period. The range of costs over 20 years (expressed in net present value terms) is between \$22.6 and \$169.9 billion. The approximate mid-point of \$100 billion is equivalent to a cost of \$33,000 to each Los Angeles County household.
- ◆ The study focuses on one of the low-cost combinations (Case II, Scenario II). This would not handle all the storm water in all circumstances because the facilities could only cope with a 0.5" storm. In other words, a waiver would be needed to implement this program. However, over the past 50 years there have been an average of only 10 days per year when this rainfall level has been exceeded. This rainfall scenario and construction case combination has a capital cost of \$43.74 billion and operating and maintenance costs of \$127 million.
- ◆ To evaluate economic impacts, the study assumes that the system would be built over fifteen years. The total economic impacts are estimated over twenty years. It is assumed that the total costs are financed via a four percent, 20-year bond.
- ◆ On the one hand, there is a construction stimulus that varies by location; on the other hand, the tax impact reduces consumer expenditures. The study uses an input-output model of the southern California area (IMPLAN) to calculate the aggregate net economic impacts, and then uses a spatially disaggregated economic impact model (SCPM) to allocate these impacts by individual city. Annual job losses of the conservative Scenario II, Case II (II, II) combination highlighted in this report are about 22,000 jobs during the construction phase, rising to almost 60,000 thereafter. The range of job losses across all combinations is 20,000 to 400,000 annual jobs. The net present value of the twenty-year costs of Scenario II, Case II are \$24.851 billion. Los Angeles county's share would be approximately \$20.02, or approximately \$6,670 per household.

- ◆ Almost all cities in the county experience net job losses. In the last five years of the 20-year planning period, the annual net economic losses of the (II, II) combination in five example cities (El Monte, Inglewood, Pasadena, Pomona and Torrance) ranged from \$321.3 million in Pomona to \$1.2 billion in Torrance. Under the most costly combination (III, III), Torrance's net economic losses amount to \$7.5 billion.
- ◆ The study makes no attempt to estimate the benefits from this degree of storm water treatment. However, it does show that achieving advanced treatment is very costly, especially if the region is required to accommodate the worst-case storms.

I. INTRODUCTION

In 2000, the US Environmental Protection Agency (USEPA) established numerical criteria for priority toxic pollutants in the State of California in the form of the California Toxics Rule (CTR), filling a policy gap in water quality standards that was created in 1994 when a State court overturned California's water quality control plans. State policy makers have used the stringent CTR discharge limits to create a variety of State water quality standards, and will presumably refer to the numerical criteria in the CTR as new State and regional rules are promulgated.

The Water Quality Act of 1987 requires the USEPA to establish National Pollutant Discharge Elimination System (NPDES) requirements. The federal Clean Water Act (CWA) authorizes States to serve as the NPDES permitting authority in lieu of the USEPA, and the State of California exercises such in-lieu authority.

The California State Water Resources Control Board and nine Regional Water Quality Control Boards are responsible for protecting water quality in California. The overarching objectives of the plans and policies developed by the Los Angeles Regional Water Quality Control Board (LARWQCB) are

"... to preserve and enhance water quality and protect the beneficial uses of all regional waters."
(LARWQCB, 1995, p. 1-1)

The definition of "beneficial uses" includes agriculture, aquatic life, recreational uses such as fishing and swimming, and drinking water. The key enforcement mechanism for ensuring that Los Angeles County municipalities take active steps to ensure that storm water discharges and urban runoff into California waterbodies support the designated beneficial uses are the LARWQCB's

- Water Quality Control Plan, Los Angeles Region (Basin Plan, 1995), and
- National Pollutant Discharge Elimination System Permit No. CAS004001 (2001).

NPDES Permit No. CAS004001 defines the waste discharge requirements for municipal storm water and urban runoff discharges with the County of Los Angeles and 84 cities operating municipal separate storm sewer systems (MS4s) located within the Los Angeles County Flood Control District.

Storm water treatment is conventionally classified into three, cumulative levels.

- Level I (physical treatment) focuses on settling and removing suspended solids and particulates. Techniques and procedures include screening and grinding, grit removal, influent chemical systems, and primary sedimentation.
- Level II (disinfectant treatment) focuses on filtering and disinfecting to remove biological contaminants. Techniques and procedures include physical treatment plus chlorination, dechlorination, effluent filtration, effluent screening, and defoamant. Disinfectant treatment of storm water is consistent with recreational beneficial uses.
- Level III (advanced treatment) focuses on removal of small concentrations of priority toxics and heavy metals. The only standard technique is secondary treatment plus reverse osmosis. Advanced treatment of storm water eliminates virtually all pollutants and renders it appropriate for beneficial use as water for groundwater augmentation.

USEPA policies require that MS4 communities reapply for an NPDES permit for five-year terms. The NPDES Permit for Los Angeles County and its incorporated

cities was first issued in 1990, reissued in 1996, and most recently reissued December 13, 2001. During this period, the focus of the permit has shifted from requiring municipalities to engage in best management practices (BMPs) to requiring municipalities to plan for the implementation of Total Maximum Daily Loads (TMDLs) of pollutants.

Many California bodies of water do not yet meet applicable water quality standards. Section 303(d) of the federal CWA requires each State to list waterbodies that have been identified as "impaired" for (not achieving) one or more designated beneficial uses. Placing a waterbody on the 303(d) list triggers an LARWQCB planning process to establish the TDMLs of pollutants that these water bodies can receive that will protect the impaired beneficial uses. The USEPA entered a consent decree with several litigants requiring that LARWQCB adopt all such TDMLs by 2012. Presumably the NPDES Permit process will be used to implement load allocations for municipal storm water discharges.

The draft 2002 update to the 1998 303(d) list for Los Angeles (California Region 4) includes 175 waterbodies. The draft 2002 list adds 104 waterbodies to the 1998 list and removes 73 for a net increase of 31 impairment listings. The draft 2002 list includes virtually all of the major Los Angeles water bodies, including beaches and conveyances such as rivers. An analysis of the treatment responses necessary to eliminate the impairment identified for the waterbodies on the draft 2002 list appears in Appendix B. In a few cases, best management practices (BMPs) are all that is required, but the vast majority of cases will require treating discharges to at least secondary levels. In the majority of the cases, the combination of contaminants and beneficial use objectives will require advanced, level III treatment.

The joint implications of the recent California Toxics Rule, the steadily increasing demands associated with NPDES Permit requirements (driven in part by the USEPA consent decree), and the growing number of major Los Angeles

waterbodies appearing on the 303(d) list are collectively a source of concern to the Los Angeles municipalities that will be responsible for achieving the resulting regulatory goals. It is quite feasible, indeed likely, that the ultimate public policy result to these simultaneous requirements will be advanced treatment of storm water and urban runoff.

Most, if not all, of Los Angeles county's cities and communities would be significantly affected by such treatment plans. Recent reports (Brown and Caldwell, 1998; Hoffman Associates, 1998; Los Angeles County Sanitation District, 2002) place 10-year county-wide costs in the range of \$53.6 - \$65 billion, including almost \$200 million in annual operations and maintenance costs. These studies envision 480 new storm water treatment plants of approximately 29 acres each, occupying a total of 13,950 acres.

Several questions motivate this study:

1. How robust and how plausible are the previous capital cost estimates for achieving advanced storm flow treatment?
2. What are the annualized capital cost equivalents for various plausible alternative combinations of cases and scenarios?
3. What are annual operations and maintenance costs for alternative combinations of cases and scenarios?
4. What are the net present values of twenty-year costs (capital and operations and maintenance) for various combinations of cases and scenarios?
5. For each of these, how are the various costs distributed throughout the metropolitan area?
6. How are they distributed by economic sector?
7. How are various cities expected to be impacted?

This report does not account for any additional benefits from storm water treatment. Our focus is on the magnitude and distribution of costs associated with mandated treatments in light of rainfall and construction cost data. Most decision makers would agree that any benefits should meet or exceed these costs.

There are major uncertainties as to the course of natural events and/or policy directions to be taken. It is, therefore, appropriate to elaborate alternative options. In the following sections, we discuss our choice of scenarios, rainfall assumptions and data, present capital and operations and maintenance costs for various cases (and their justifications) and test the economic impacts of each combination of scenario and case. The latter are investigated using a spatially disaggregated regional input-output model of the southern California (five-county) economy.

- We find that the twenty-year compliance costs are significant, with net present values for the region in the range of \$22.6 - \$169.9 billion – depending on the combination of case and scenario. The mid-point of this range is almost \$100 billion. Most of these costs accrue to LA county households, of which there were slightly more than three million in 2000. Using round numbers, the average household liability is \$33,333. This is a substantial amount anywhere and especially controversial in a semi-arid region.
- Investigating impacts on a city-by-city basis, shows that a few cities would experience twenty-year net benefits for some combinations of cases and scenarios because significant construction stimulus would take place within their borders; yet, overwhelmingly, there are net losses for most municipalities – in the range of \$6.5-\$7.5 billion for some cities.

- Of the many scenarios and cases studied, a conservative combination places one treatment plant in each of the region's 65 sub-basins. Each such plant is built to handle the runoff from a one-half inch rainstorm (all runoff calculations in this report consider water losses due to interception and infiltration, as appropriate for the various scenarios). This is the most likely precipitation event -- but one which requires that regulators accept the fact that there will be pollution standard exceedance in the event of larger storms. That combination requires capital costs of \$43.7 billion and annual operating costs of \$127 million.
- Annual job losses, due to household spending diverted to finance these expenditures, range from over 22,000 jobs per year for the first 15 years, while the plants are being built, to almost 60,000 per year thereafter when the economic stimulus from construction is no longer in effect. The net present value of the twenty-year costs of the conservative combination of case and scenario are \$24.851 billion. Los Angeles county's share of this sum is expected to be \$20.022 billion, or approximately \$6,670 per household.

II. ESTIMATING COSTS FOR CASES AND SCENARIOS

We study nine combinations of cases and scenarios. There are three alternative prototypical levels of rainfall accumulation combined with three scales of treatment plants. Each scale of treatment plant also has associated siting options around Los Angeles county. Advanced treatment capacity is assumed in all cases.

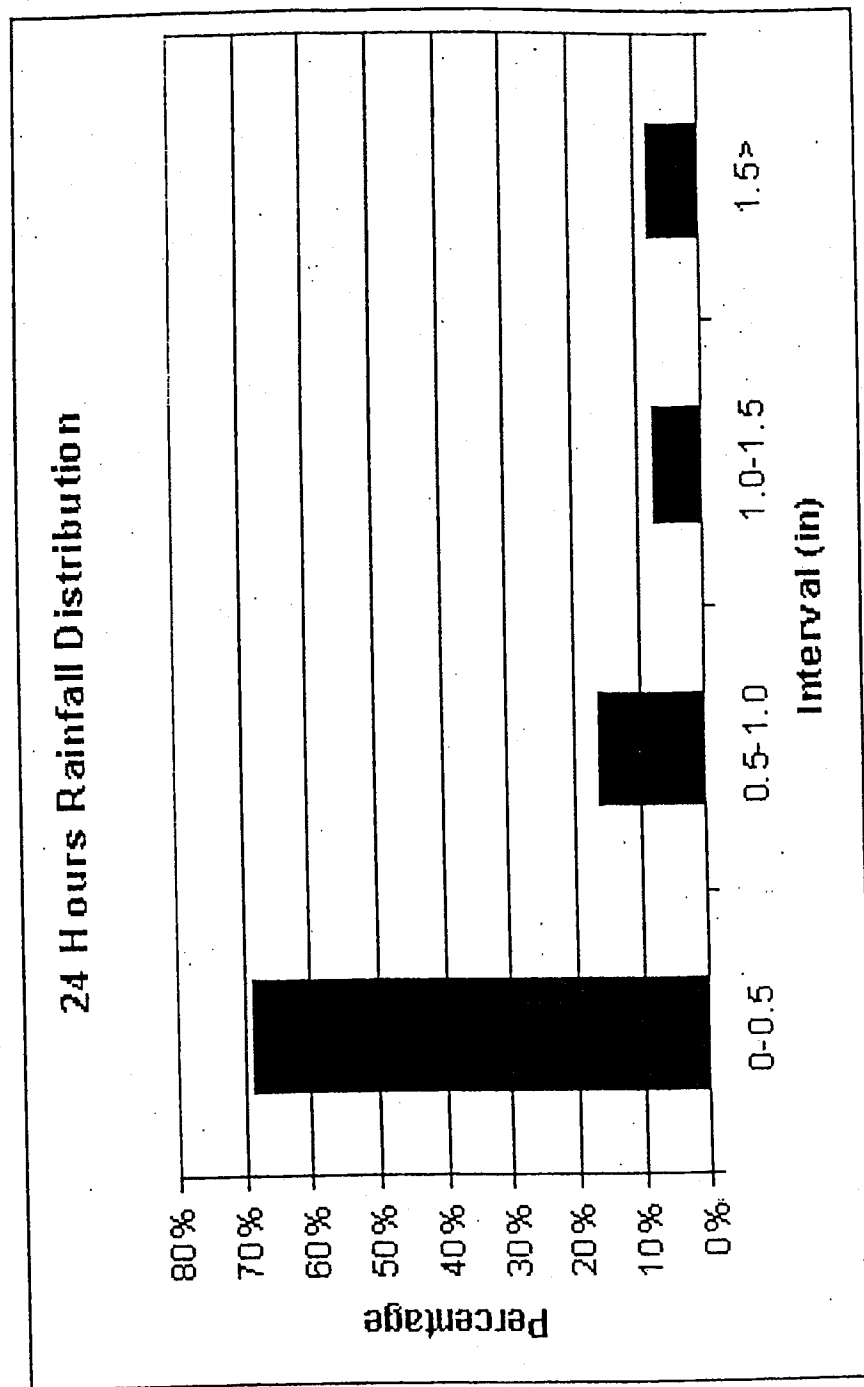
II.1 Rainfall Scenarios

The Brown and Caldwell (1998) study assumed a 1.25" 24-hour storm. We have retained this default assumption as Scenario I. The other rainfall scenarios are based on our study of county rainfall data. We analyzed daily precipitation data at seventy-six representative stations throughout the entire monitoring area. These data were kept by the Los Angeles County Department of Public Works. Many of these stations have records of precipitation for over seventy years. Out of the total 1,484,090 station-days we found that only 132,299 station days had any trace of rainfall. Thus, 91.1 percent of the time there was no precipitation at all.

Figure 1 summarizes the distribution of rainfall during the 24-hr period from the 132,299 station-day data. These are the periods during which rainfall occurred. The data show that:

- 69 percent of the time, 24-hr rainfall was between 0 and 0.5",
- 16 percent of the time, it was between 0.5" and 1.0",
- 7 percent of the time, it was between 1.0" and 1.5", and
- rainfall was above 1.5" the remaining 8 percent of the time.

Figure 1. 24 Hours of Rainfall Distribution



In the interests of being conservative and because the great majority of the 24-hr rainfall data were below 0.5", we chose the 0.5" rainfall as Scenario II. We also calculated the average rainfall that occurred during continuous three-day periods in which precipitation occurred. The observed average *total* for these three-day storms was 2.25". This 2.25" value is also the 97th percentile for observed 24-hr rainfall. Thus, 2.25" with a three-day runoff period was chosen as the design rainfall for Scenario III.

II.2 Construction Cases

We studied three treatment plant siting and sizing cases for each rainfall scenario. The 45.2 (average) million-gallon plants assumed in the Brown and Caldwell study constitute Case I. Because plant sizes are fixed for this case, the number of Case I plants varies with the rainfall scenario. This produces a relatively large number of treatment facilities, which we sited relatively uniformly throughout the region. Case II places one large treatment plant in each of the county's sub-basins for a total of 65 plants regardless of rainfall scenario. Case II plant sizes vary with rainfall. Case III is based on political "equity" with one treatment plant in each of the county's cities. There are 87 cities but many straddle more than one sub-basin. Drainage requirements dictate that such cities accommodate one plant per-sub basin. Census Designated Places (CDPs) include both incorporated and unincorporated communities. Unincorporated CDPs in Los Angeles county were added to adjacent cities for the purposes of this study. This produced a total of 123 sub-basin-CDP combinations in Los Angeles county. There are also seven residual basin areas that are neither incorporated nor designated as a CDP but which certainly experience rainfall. Case III then places a treatment plant in each one of these 130 areas with the plant sized to treat the runoff from each area.

II.2.1 ENR Construction Cost Index

The analysis in Tables 2-4 assumes an Engineering News Record (ENR) Construction Cost Index (CCI; 1913 = 100) of 7420.88 for Los Angeles as of July 5, 2002. The Brown and Caldwell and LACSD review study both used a twenty-city average ENR CCI of 6710. Using the Los Angeles index provides a correction that brings the project to the current time and correct location. Note, however, that for the most accurate budget estimate, specific cost indices should be used based upon:

- specific planned expenditures for every project, and
- a projection of when the project is to be built.

In contrast, the ENR CCI is based upon

- 200 hours of common labor,
- 25cwt of standard structural steel shapes,
- 1.128 tons of Portland cement, and
- 1,088 board-ft of 2x4 lumber.

Thus, the components of the CCI are consistent with the materials included in treatment plants.

II.2.2 Real estate costs

The Brown and Caldwell and LACSD review study both used a real estate cost of \$914,760 per acre. This figure significantly underestimates real estate costs for

most basin areas in this study. We have constructed weighted costs based on the distribution of residential, non-residential, and vacant land values. These improved estimates of land costs used were derived from a record of all 2001 Los Angeles county real property transactions as reported by DataQuick Information Systems. These data were for various land uses, by city, including transactions labeled "vacant land." Because there is no way to tell exactly where plants will be sited, we computed a composite land cost index by weighting the DataQuick transactions data by the amount of land by general land use type in each city. Land use data were provided by the Southern California Association of Governments. Note that these values are specific to each basin, sub-basin, or City/CDP depending on the particular facility case.

The various siting assumptions have implications for Collection System costs. Plant size is function of the design flow for the plant with 0.2455 acres of plant land needed per MG of flow. This figure determines the maximum and minimum plant acreage requirements of all nine combinations of cases and scenarios. Acres per plant is defined to mean how much land is needed to construct each individual treatment plant. The land requirements therefore vary with plant capacity (millions of gallons treated). In Case II and Case III, the plant sizes are determined based on required flow treatments (and hence drainage areas) of each individual sub-basin or individual City/CDP, and the plant sizes vary across rainfall scenarios. In the Case I scenarios, the plant size is fixed and the number of plants varies based on required flow treatments of each basin (because of different rainfall assumptions). Hence, given the nine different combinations of cases scenarios, there is a blending of costs across hundreds of different size plants.

In some combinations, the required individual plant capacities may be quite small for a small city, e.g., Case III, Scenario II. Consequently, the required plant size can be very small, perhaps less than one acre. Consistent with the 9-combinations approach, the plant construction cost for such small (and arguably

unlikely) projects is included in the total cost for each combination. In some combinations, the required individual plant capacities may be quite large, e.g., a large basin in Case II, Scenario III. In these cases, the required plant size is very large, perhaps over one thousand acres. Again, in keeping with the 9-combination approach, the plant construction cost for even such large (and arguably unlikely) project is included in the total combination cost. Given the large number of plants and the large variety of sizes, the total cost difference across the combinations is not large.

In the interests of conservatism, we have assumed that vacant land parcels would be available in Case III (the City/CDP option), and used the "vacant land" real estate costs as opposed to the weighted costs for unincorporated areas added to each basin. The weighted cost estimates were used in all other cases.

II.2.3 Engineering soft costs

The Brown and Caldwell and LACSD studies both assumed a 20 percent "Engineering/Legal/Administrative" soft cost to account for additional project costs other than the land and physical construction costs. Most projects experience a much higher soft cost share of 25 percent to 50 percent, but normally do not include land in the value from which the percentage is taken. To correct this, we have applied an "Engineering/Legal/Administrative" soft cost of 25 percent instead of 20 percent to the base construction value, and applied a 10 percent soft cost to the corrected land values.

II.2.4 Construction costs

Treatment plant cost will vary with size of the plant, but not as significantly as expected. All plants are assumed to be the same 45.2 million gallons (MG) size in Case I, and the Brown and Caldwell cost capacity equation was used to compute the plant costs, subject to the data corrections identified above. The

Table 6. Economic Impacts of Operating and Management Costs for years 16 - 20

Economic Scenario	Case 1: 45.2 MG Plant Scenario (45.2, 161, 335 Pounds)				Case 2: One Plant per Sub-Bath Scenario (65 Pounds)				Case 3: One Plant per City-Bath Interaction Scenario (130 Pounds)			
	Employment	Output	Value Added	Net Profit	Employment	Output	Value Added	Net Profit	Employment	Output	Value Added	Net Profit
Scenario 1: 2044, 137												
Agriculture	4	1,000	1,000	1,000	4	1,000	1,000	1,000	4	1,000	1,000	1,000
Manufacturing	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Construction	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Trade	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Government	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Scenario 2: 2044, 137												
Agriculture	4	1,000	1,000	1,000	4	1,000	1,000	1,000	4	1,000	1,000	1,000
Manufacturing	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Construction	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Trade	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Government	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Scenario 3: 2044, 137												
Agriculture	4	1,000	1,000	1,000	4	1,000	1,000	1,000	4	1,000	1,000	1,000
Manufacturing	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Construction	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Trade	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Government	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Other	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000

* All units unless otherwise specified are in millions of \$ 1999.
 - Employment impacts are in person-years.

Table 7. Economic Impacts of Household Expenditure Reductions for years 1 - 20

Sector	Employment	Case 1: 452 Mkt Share Scenario (400, 111, 133 Percent)				Case 2: One Third per Sub-Bath Scenario (85 Percent)				Case 3: One Third per City-Bath Interaction Scenario (130 Percent)			
		Expenditure	Value Added	Output	Property Income	Expenditure	Value Added	Output	Property Income	Expenditure	Value Added	Output	Property Income
Manufacturing													
Food Processing	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Textile	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Chemical	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Metals	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Plastics	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Other	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Construction													
Residential	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Commercial	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Other	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Services													
Retail	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Food Service	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Health	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Education	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Other	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Government													
Local	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
State	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Federal	181	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Total													
Expenditure		1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Value Added		1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Output		1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41
Property Income		1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41	1,141	34.36	11.35	3.41

* All units except employment are in millions of \$ 1990.

** Employment impacts are in persons-year.

Combining data where possible, there are two periods to consider. Years 1-15 each combine a construction stimulus effect with simultaneous reductions in household expenditures. Years 16-20 combine the stimulus from full-scale operations and maintenance expenditures with continued reductions in household expenditures. This is why Table 8, which summarizes net job impacts contains mostly negative entries. There are more jobs lost than gained and there are extraordinarily large net losses in the last interval when the stimulative effects of construction are over. There are, to be sure, gains in construction sector employment in Years 1-15, but these are more than offset by losses in all of the other industrial sectors. Depending on the combination of case and scenario, aggregate regional job losses range from an average of just over 20,000 (Rainfall Scenario II, Plant Case I) for each of the first fifteen years to over 150,000 (Rainfall Scenario III, Plant Case III) in the same interval. In the post-construction interval, these losses grow substantially from almost 47,000 to over 400,000 jobs per year for the same two bookend combinations. Job losses for combination (II, II) are more than 22,000 in each of Years 1-15 and almost 60,000 in each of the last five years.

The other model used in this study is a proprietary model developed at USC, the Southern California Planning Model (SCPM) which has the unique capability to allocate all of the IMPLAN outputs to the various cities and communities throughout the five-county southern California metropolitan areas. SCPM has been used by our group for a variety of impact studies over the last twenty years. Its data components have continuously been updated.

Table 8. Net Annual Employment Impacts by Scenario by Period

Construction Period	Industry	(Person-Year)								
		CASE I			CASE II			CASE III		
		Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Year 1 - Year 15	Agriculture	-714	-256	-1,349	-905	-294	-1,874	-963	-316	-2,090
	Mining	-59	-20	-114	-66	-22	-131	-66	-22	-134
	Construction	21,477	8,043	39,851	31,129	9,968	66,221	34,516	11,238	77,813
	Manufacturing	-1,918	-672	-3,661	-2,248	-737	-4,568	-2,313	-763	-4,868
	TCPU	-1,846	-662	-3,491	-2,200	-712	-4,566	-2,468	-808	-5,344
	Wholesale Trade	-2,721	-957	-5,185	-3,241	-1,060	-6,611	-3,354	-1,106	-7,104
	Retail Trade	-34,649	-12,550	-65,229	-45,223	-14,631	-94,273	-48,554	-15,933	-106,536
	FIRE	-3,304	-1,179	-6,259	-4,136	-1,346	-8,529	-4,350	-1,429	-9,374
	Services	-29,936	-10,609	-56,874	-36,512	-11,909	-74,907	-38,173	-12,560	-81,595
	Government	-1,100	-396	-2,076	-1,409	-457	-2,926	-1,507	-494	-3,281
	Other	-2,429	-881	-4,571	-3,184	-1,030	-6,642	-3,429	-1,123	-7,518
	Direct Effect	-47,352	-16,905	-89,689	-59,017	-19,194	-121,770	-62,420	-20,503	-134,583
	Indirect Effect	-2,213	-664	-4,470	-1,262	-462	-1,936	-827	-305	-14,807
	Induced Effect	-7,634	-2,571	-14,799	-7,715	-2,573	-15,101	-7,514	-2,509	-14,807
Year 16 - Year 20	Total Effect	-57,199	-20,140	-108,958	-67,994	-22,229	-138,806	-70,761	-23,316	-150,032
	Agriculture	-1,100	-401	-2,066	-1,524	-492	-3,189	-1,587	-519	-3,497
	Mining	-179	-65	-336	-246	-79	-514	-258	-84	-568
	Construction	-1,047	-404	-1,915	-3,052	-986	-6,387	-1,852	-593	-4,273
	Manufacturing	-4,643	-1,693	-8,716	-6,445	-2,081	-13,486	-6,697	-2,190	-14,758
	TCPU	-3,207	-1,179	-5,997	-5,212	-1,683	-10,906	-4,783	-1,558	-10,628
	Wholesale Trade	-6,142	-2,239	-11,531	-8,435	-2,724	-17,649	-8,855	-2,896	-19,511
	Retail Trade	-41,853	-15,252	-78,588	-57,115	-18,444	-119,505	-60,282	-19,715	-132,778
	FIRE	-5,678	-2,069	-10,661	-12,266	-3,961	-25,664	-8,180	-2,675	-18,019
	Services	-59,768	-21,785	-112,218	-82,524	-26,649	-172,670	-86,156	-28,175	-189,808
	Government	-1,560	-569	-2,929	-2,186	-706	-4,575	-2,250	-736	-4,958
	Other	-2,824	-1,029	-5,303	-3,841	-1,240	-8,036	-4,066	-1,330	-8,955
	Direct Effect	-82,227	-29,977	-154,372	-114,332	-36,921	-239,225	-118,622	-38,788	-261,385
	Indirect Effect	-16,785	-6,129	-31,490	-25,224	-8,146	-52,778	-24,369	-7,963	-53,785
	Induced Effect	-28,988	-10,578	-54,397	-43,289	-13,979	-90,577	-41,976	-13,720	-92,585
	Total Effect	-128,000	-46,684	-240,259	-182,846	-59,046	-382,581	-184,968	-60,471	-407,755

Selected SCPM results expressed in terms of total output effects (direct plus indirect plus induced, in 1999 millions of dollars) are shown in Tables 9 and 10. The associated direct, indirect and induced effects are shown in Appendix Tables A2-A7. Tables 9 and 10 show total impacts for a representative year in the intervals of Years 1-15 and Years 16-20 respectively. Just as in the case of regional job impacts, Tables 9 and 10 show both stimulative effects (top panels) resulting from construction and depressive effects (middle panels) resulting from financing. Net impacts are shown in the third panel of each table. Now, however, the results are reported for the five counties in the Southern California metropolitan area, as regional total and for sub-areas of Los Angeles county constituting SCAG sub-regional planning areas. Whereas most of the direct effects are located within Los Angeles county, the five-county area is an integrated metropolitan economy making it quite likely that indirect and induced effects will be felt in neighboring counties.

For the region, net annual losses in the first interval range from \$1.186 billion (Rainfall Scenario II, Plant Case I) to \$7.823 billion (Rainfall Scenario III, Plant Case III). All five of the counties also show net losses for these years. Within Los Angeles county, there are economic winners as well as losers. North Los Angeles county, for example shows some net gains for some of the combinations of cases and scenarios. This is because while expenditures may be funneled there, there are few households and thus relatively low taxation impacts. For the conservative combination (II, II), net annual losses are \$1.242 billion for the region, most of which is expected to fall on Los Angeles county.

In the second interval, the construction stimulus is removed and there are net losses for all areas, for all combinations. Net annual losses for the region range from \$3.830 billion (Rainfall Scenario II, Plant Case I) to \$33.530 billion (Rainfall Scenario III, Plant Case III). For the (II, II) combination, net annual losses are expected to be \$4.464 billion.

(Millions of \$ 1999)

Table 9. Annual Total Impacts for years 1 - 15

Table 9. Annual Total Impacts for years 1-15															
Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total	
	Amoy Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total						
CASE I	Scenario I	355.5	2,382.5	391.6	776.6	1,145.8	432.9	176.1	1,130.2	6,791.3	791.6	282.1	301.2	179.5	8,325.7
CASE II	Scenario II	156.1	810.5	163.6	344.8	366.8	151.0	60.0	476.7	2,528.4	295.0	97.7	112.2	67.1	3,101.4
	Scenario III	568.5	4,358.9	719.2	1,515.6	2,124.0	826.0	282.2	2,237.4	12,630.8	1,471.9	487.4	560.0	333.7	15,483.8
	Scenario I	339.3	3,576.9	1,168.8	1,003.1	1,928.2	520.4	187.1	961.3	8,685.1	1,129.2	374.1	429.8	255.9	11,874.0
CASE III	Scenario II	106.8	1,134.0	335.9	330.9	622.8	169.0	60.0	346.5	3,105.9	362.1	119.9	137.8	82.1	3,807.8
	Scenario III	701.7	7,539.4	2,668.5	2,152.5	4,055.0	1,081.2	397.0	1,947.3	20,542.5	2,395.7	793.6	911.8	542.8	25,186.5
	Scenario I	304.4	3,404.7	1,766.6	770.6	2,491.9	550.4	207.5	1,176.5	10,692.6	1,248.1	413.4	474.9	282.6	13,111.5
CASE I	Scenario II	103.6	1,113.8	473.9	307.7	829.1	206.0	67.7	383.2	3,485.3	406.7	134.7	154.7	92.1	4,273.5
	Scenario III	880.8	7,527.9	4,248.5	1,682.2	5,508.7	1,188.5	466.0	2,640.2	24,003.1	2,803.0	828.4	1,066.6	634.7	28,435.7
	Scenario I	662.6	3,871.7	345.9	1,114.3	1,403.5	903.6	529.3	729.8	9,560.8	1,141.8	346.5	457.5	262.6	11,769.3
CASE II	Scenario II	241.4	1,410.3	128.0	405.9	511.2	329.1	192.8	265.8	3,482.6	415.9	126.3	166.8	95.7	4,267.0
	Scenario III	1,244.4	7,271.3	649.7	2,092.8	2,836.0	1,697.1	894.1	1,370.7	17,956.0	2,144.3	650.9	858.2	493.2	22,103.6
	Scenario I	880.5	5,144.9	459.7	1,480.8	1,865.1	1,200.8	703.4	989.8	12,705.1	1,517.2	480.8	607.9	349.0	15,639.9
CASE III	Scenario II	284.4	1,861.5	148.5	478.2	602.3	387.8	227.1	313.2	4,102.9	490.0	148.7	196.3	112.7	5,050.6
	Scenario III	1,842.4	10,765.1	981.9	3,098.4	3,902.5	2,512.5	1,471.7	2,029.3	26,583.9	3,174.6	963.7	1,272.1	730.2	32,724.5
	Scenario I	952.8	5,567.1	497.4	1,602.3	2,018.1	1,298.3	781.1	1,048.4	13,747.5	1,641.7	498.4	657.8	377.6	16,923.0
CASE I	Scenario II	311.7	1,821.1	162.7	524.1	660.2	425.0	249.0	343.3	4,487.0	537.0	163.0	215.2	123.5	5,535.8
	Scenario III	2,097.7	12,256.8	1,095.2	3,527.7	4,443.3	2,860.7	1,875.6	2,310.5	30,287.5	3,611.5	1,097.3	1,448.3	831.4	37,259.0
	Scenario I	-307.1	-1,489.2	45.8	-337.7	-257.7	-470.7	-353.1	400.4	-2,788.5	-350.2	-84.5	-156.3	-83.1	-3,443.6
CASE II	Scenario II	-85.2	-599.7	37.6	-61.1	-144.6	-178.1	-132.8	210.8	-953.2	-120.9	-26.6	-54.4	-26.8	-1,185.6
	Scenario III	-676.0	-2,912.4	68.5	-577.2	-511.9	-871.1	-711.8	866.8	-5,325.2	-672.4	-163.5	-299.2	-159.5	-6,619.8
	Scenario I	-541.2	-1,568.0	709.0	-477.7	63.1	-680.4	-516.3	-8.5	-3,020.0	-388.1	-86.5	-178.2	-93.1	-3,765.9
CASE III	Scenario II	-177.8	-527.5	187.5	-147.3	20.5	-218.8	-167.1	33.3	-997.0	-127.9	-28.8	-58.5	-30.8	-1,242.8
	Scenario III	-1,140.7	-3,225.7	1,706.5	-845.9	152.4	-1,431.3	-1,074.7	-82.0	-6,041.4	-778.9	-170.1	-360.2	-187.3	-7,537.9
	Scenario I	-646.3	-2,162.4	1,269.2	-831.7	473.7	-748.9	-553.6	127.1	-3,054.9	-393.7	-85.0	-182.9	-85.0	-3,611.6
CASE I	Scenario II	-207.9	-707.2	311.2	-216.4	169.0	-219.0	-191.2	39.9	-1,011.7	-130.4	-28.3	-60.4	-31.4	-1,262.3
	Scenario III	-1,416.9	-4,628.9	3,153.4	-1,865.5	1,065.4	-1,892.1	-1,209.8	329.7	-6,264.4	-811.6	-169.9	-381.7	-196.7	-7,823.2

Millions of \$ 1999)

52

All of these effects were computed for all cities and CDPs in the five-county area. Results are shown in Tables A8-A15. These annual tables correspond to the typical years in each of the two intervals. Tables A8, A10, A12, and A14, correspond to Years 1-15; and Tables A9, A11, A13, and A15 correspond to Years 16-20. The first Tables (A8 and A9) summarize total effects, while the following table pairs detail direct, indirect, and induced effects, respectively. Each of the eight tables lists stimulus effects for the nine combinations of cases and scenarios. These are the first nine columns. Household expenditure reduction effects appear in the next nine columns and net effects appear in the last nine columns.

It is obviously cumbersome to discuss all of these results for hundreds of cities. Consider just some of the county's cities, namely El Monte, Inglewood, Pasadena, Pomona and Torrance. Tables 11 and 12 are laid out like Tables 9 and 10. In Years 1-15, there are occasional economic winners. Pomona wins in two of the nine combinations of cases and scenarios. But overwhelmingly there are cities that are losers year after year. The four other cities show substantial losses for each combination of case and scenario. In Years 15-20, the stimulus associated with construction will have passed and all five of the cities experience substantial losses. Pomona's annual net losses are as "small" as \$28.8 million per year (Rainfall Scenario II, Plants Case I) whereas Torrance's losses go as high as \$777.4 million per year. Four of the five cities experience losses in Years 1-15, Pomona's being the occasional exception. Pomona's advantage disappears in Years 16-20; once the construction stimulus is past, there are net losses for all these cities.

Tables A16 - A21 in Appendix A summarize the direct, indirect and induced effects evaluated in this report. Direct costs always refer to the expenditures actually made in each city. Detailed plant site decisions are not predictable. Our approach is to site hypothetical plants at the lowest topographic elevations consistent with each plants case. In the 65-plant case, this means that there are direct expenditures in some cities, but not in others.

Table 11. Annual Total Impacts for years 1 - 15 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

Scenario		(Millions of \$ 1999)				
		El Monte	Inglewood	Pasadena	Pomona	Torrance
CASE I	Scenario I	55.4	81.6	112.5	101.7	91.1
	Scenario II	18.0	29.6	52.7	40.4	62.6
	Scenario III	100.5	112.1	194.0	169.3	184.3
CASE II	Scenario I	29.9	32.8	147.1	58.4	83.7
	Scenario II	9.6	10.5	44.9	20.7	26.8
	Scenario III	63.5	69.7	300.4	121.4	177.7
CASE III	Scenario I	68.8	54.6	106.7	88.9	146.1
	Scenario II	27.9	21.3	37.7	38.9	50.6
	Scenario III	147.3	120.5	241.6	195.5	317.7
CASE I	Scenario I	87.2	105.1	214.9	95.9	258.7
	Scenario II	31.8	38.3	78.3	34.9	94.2
	Scenario III	163.7	197.3	403.6	180.2	485.9
CASE II	Scenario I	115.9	139.6	285.6	127.5	343.8
	Scenario II	37.4	45.1	92.2	41.2	111.0
	Scenario III	242.4	292.2	597.6	266.8	719.4
CASE III	Scenario I	125.4	151.1	309.0	138.0	372.0
	Scenario II	41.0	49.4	101.1	45.1	121.7
	Scenario III	276.0	332.7	680.4	303.7	819.1
CASE I	Scenario I	-31.8	-23.5	-102.4	5.8	-167.6
	Scenario II	-13.8	-8.7	-25.6	5.5	-31.6
	Scenario III	-63.2	-85.2	-209.6	-10.9	-301.6
CASE II	Scenario I	-85.9	-106.8	-138.5	-89.1	-260.1
	Scenario II	-27.8	-34.6	-47.3	-20.5	-84.2
	Scenario III	-178.9	-222.5	-297.1	-145.4	-541.7
CASE III	Scenario I	-56.6	-96.4	-202.3	-49.0	-225.9
	Scenario II	-13.1	-28.1	-63.4	-6.3	-71.1
	Scenario III	-128.7	-212.1	-438.7	-108.2	-501.4
Stimulus Effect						
Impacts of Household Expenditure Reduction						
Net Impacts						

Table 12. Annual Total Impacts for years 16 - 20 (El Monte, Inglewood, Pasadena, Pomona, Torrance)
(Millions of \$ 1999)

Scenario		El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	8.5	13.0	17.6	16.0	13.5
	Scenario I					
	Scenario II	2.6	4.6	8.1	6.2	9.6
CASE II	Scenario III	15.6	17.8	30.7	27.0	28.1
	Scenario I	3.9	4.3	23.5	9.1	11.2
	Scenario II	1.3	1.4	7.2	3.2	3.7
CASE III	Scenario III	8.0	8.9	47.1	18.6	23.0
	Scenario I	9.7	7.2	14.2	12.7	20.0
	Scenario II	3.9	2.9	5.1	5.5	6.9
CASE I	Scenario III	20.1	15.4	31.0	27.3	41.7
	Scenario I	87.2	105.1	214.9	95.9	258.7
	Scenario II	31.8	38.3	78.3	34.9	94.2
CASE II	Scenario III	163.7	197.3	403.6	180.2	485.9
	Scenario I	115.9	139.6	285.6	127.5	343.8
	Scenario II	37.4	45.1	92.2	41.2	111.0
CASE III	Scenario III	242.4	292.2	597.6	266.8	719.4
	Scenario I	125.4	151.1	309.0	138.0	372.0
	Scenario II	41.0	49.4	101.1	45.1	121.7
CASE I	Scenario III	276.0	332.7	680.4	303.7	819.1
	Scenario I	-78.7	-92.0	-197.3	-79.9	-245.2
	Scenario II	-29.1	-33.7	-70.2	-28.8	-84.7
CASE II	Scenario III	-148.1	-179.6	-373.0	-153.1	-457.8
	Scenario I	-112.0	-135.3	-262.1	-118.3	-332.6
	Scenario II	-36.1	-43.7	-85.0	-37.9	-107.4
CASE III	Scenario III	-234.4	-283.3	-550.5	-248.2	-696.4
	Scenario I	-115.6	-143.9	-294.8	-125.2	-352.0
	Scenario II	-37.1	-46.6	-96.0	-39.6	-114.8
Net Impacts		-255.9	-317.3	-649.3	-276.4	-777.4

III.2 Net Present Values

There are several reasons to present our results in net present value terms rather than in annual terms. First, there is the standard rationale that gains or losses further in the future have less consequence than those occurring in the near term. The second is related to the first: There are two distinct intervals in the twenty-year study period. Most of the pain is felt in the years 16-20, when the stimulative effects are substantially reduced. Outcomes across these two intervals are best combined when proper account is given to which of these takes place first. A four-percent discount rate is used throughout for net present value calculations. This is consistent with the interest rate used in this study's bond cost calculations.

Table 13 shows net present values for the region, the five counties and the Los Angeles county sub-areas introduced earlier. Regional present values range from losses of \$22.649 billion (Rainfall Scenario II, Plants Case I) to losses of \$169.866 billion (Rainfall Scenario III, Plants Case III). As might be expected, the brunt of the cost is borne by Los Angeles county with losses ranging from an \$18.267 billion to a \$136.815 billion loss. The city of Los Angeles incurs the greatest costs. These range from \$9.853 billion to \$79.308 billion. The highlighted (II, II) combination includes \$24.851 billion of losses for the region, \$20.022 billion for the Los Angeles county, of which \$9.5 billion accrues to LA city. The direct, indirect and induced effects that make up these totals are itemized in Tables A22-A24 of Appendix A.

Table 13. Present Value of Net Total Impacts by County by Scenario

(Millions of \$ 1999)

County	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Arroyo Verdugo	-4,913.7	-1,484.8	-10,367.9	-8,061.3	-2,634.9	-16,968.6	-9,462.4	-3,046.8	-20,720.3
City of Los Angeles	-25,201.6	-9,852.6	-48,635.5	-28,754.9	-9,520.5	-59,619.8	-36,661.9	-11,987.7	-79,308.4
North Los Angeles County	-201.6	165.9	-572.2	7,125.1	1,829.9	17,434.6	13,645.2	3,206.1	33,606.2
San Gabriel Valley	-6,206.8	-1,552.1	-10,988.6	-8,604.6	-2,696.9	-17,408.2	-12,934.5	-3,593.3	-28,891.8
Southeast Los Angeles County	-5,893.5	-2,737.6	-11,377.5	-3,126.2	-1,003.7	-6,353.7	1,120.8	530.6	2,659.5
South Bay	-7,304.2	-2,739.5	-13,563.2	-10,337.9	-3,326.6	-21,731.1	-11,352.6	-3,416.1	-25,507.2
Westside Cities	-5,169.6	-1,932.5	-10,267.9	-7,414.0	-2,398.7	-15,453.9	-7,973.5	-2,609.8	-17,455.3
Other Los Angeles County	3,083.3	1,865.7	7,130.7	-2,121.5	-270.5	-5,189.3	-788.5	-275.1	-1,197.5
Los Angeles County Total	-51,807.7	-18,267.5	-98,642.2	-61,295.3	-20,022.0	-125,289.9	-64,407.3	-21,191.9	-136,814.8
Orange County	-6,436.8	-2,272.2	-12,249.4	-7,672.6	-2,504.9	-15,699.8	-8,058.2	-2,652.9	-17,141.9
Riverside County	-1,704.6	-596.9	-3,254.3	-1,971.4	-645.6	-4,007.8	-2,054.0	-677.5	-4,323.6
San Bernardino County	-2,764.6	-979.5	-5,253.2	-3,336.0	-1,087.6	-8,845.7	-3,518.8	-1,157.4	-7,519.1
Ventura County	-1,512.5	-532.4	-2,878.3	-1,812.4	-591.0	-3,712.6	-1,908.9	-628.2	-4,066.4
Total	-64,226.2	-22,648.6	-122,277.5	-76,087.7	-24,851.2	-155,555.8	-79,947.3	-26,308.0	-169,865.9

Because annual costs are available for all cities of the region, for all rainfall scenarios, net present values are also available for each combination of scenario and case. Tables A25-A28 of Appendix A show these results. Once again, these detailed model outputs are best highlighted by focusing on the five representative cities mentioned earlier. The top panel of Table 14 summarizes net present value of total economic effects. The net present values of direct, indirect and induced effects appear in the lower panels. Looking at the top panel of total net effects, all of the selected cities show substantial losses for all of the combinations of cases and scenarios. Most losses are expected to accrue to Torrance, where losses range from just over \$561 million to \$7.497 billion. Pasadena's losses are slightly lower but also substantial. Inglewood can expect net present value losses, ranging from almost \$180 million to \$3.174 billion. El Monte's losses are slightly greater, from just over \$225 million to almost \$2.569 billion. The (II, II) combination also means losses for all of the cities, ranging from \$321 million for Pomona to \$1.201 billion for Torrance.

Table 14. Present Value of Net Impacts by Scenario for Selected Cities (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Impacts	City	CASE I			CASE II			CASE III		
		Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Net Total Impacts	El Monte	-548.4	-228.1	-1,069.0	-1,232.2	-388.7	-2,568.8	-916.0	-237.6	-2,063.9
	Inglewood	-488.0	-178.9	-1,391.6	-1,522.0	-492.3	-3,174.1	-1,427.6	-427.4	-3,142.7
	Pasadena	-1,626.3	-458.1	-3,252.4	-2,187.6	-738.5	-4,684.2	-2,877.7	-841.8	-6,483.1
	Pomona	-133.3	-10.4	-499.3	-1,060.6	-321.3	-2,228.8	-854.3	-187.4	-1,886.8
Net Direct Impacts	Torrance	-2,489.6	-661.1	-4,485.1	-3,714.0	-1,201.4	-7,744.6	-3,381.6	-1,074.6	-7,497.1
	El Monte	-431.6	-184.4	-845.3	-1,100.6	-355.4	-2,302.9	-779.1	-192.7	-1,781.0
	Inglewood	-358.3	-134.4	-1,141.3	-1,374.1	-443.7	-2,875.2	-1,275.1	-376.9	-2,823.9
	Pasadena	-1,983.0	-387.4	-2,745.9	-1,901.6	-642.2	-4,091.7	-2,686.0	-845.2	-5,884.4
Net Indirect Impacts	Pomona	18.2	42.6	-209.7	-888.7	-284.3	-1,877.0	-873.6	-107.7	-1,507.6
	Torrance	-2,144.6	-448.1	-3,862.6	-3,347.7	-1,081.1	-7,004.7	-3,004.1	-849.7	-6,710.5
	El Monte	-38.5	-13.2	-74.2	-41.4	-13.7	-82.7	-42.1	-14.0	-86.1
	Inglewood	-38.4	-13.2	-73.8	-41.4	-13.7	-82.9	-42.3	-14.0	-86.7
Net Induced Impacts	Pasadena	-88.3	-28.4	-171.7	-84.0	-28.2	-162.6	-82.0	-27.5	-158.1
	Pomona	-53.3	-18.6	-101.9	-60.7	-19.9	-123.0	-63.1	-20.8	-132.2
	Torrance	-118.0	-40.6	-226.9	-127.7	-42.2	-255.5	-129.9	-43.0	-268.0
	El Monte	-78.3	-27.4	-149.6	-80.2	-29.6	-183.2	-83.7	-30.9	-196.8
Net Induced Impacts	Inglewood	-92.4	-32.3	-176.5	-108.4	-34.9	-216.1	-110.5	-36.5	-232.2
	Pasadena	-175.3	-61.3	-334.8	-201.9	-68.2	-409.9	-209.7	-69.2	-440.6
	Pomona	-98.3	-34.4	-187.7	-113.2	-37.1	-229.8	-117.6	-38.8	-247.1
	Torrance	-207.1	-72.4	-395.6	-238.6	-78.2	-484.4	-247.8	-81.8	-520.6

IV. DISCUSSION

The results depicted in this study are not a standard cost-benefit analysis. No attempt has been made to quantify the benefits of storm water treatment. Rather, this is an impact study that acknowledges and accounts for both the stimulative and depressive economic effects associated with constructing new storm water treatment plants. We pose a number of if-then combinations of cases and scenarios, and investigate the implications of these in some detail, other things equal. A massive public works projects will be a bonanza for some sectors of the economy, but the costs of such projects have to come from somewhere and we have tried to account for these. We have explored a wide range of empirical and policy-relevant assumptions and our results bracket the dollar costs suggested in earlier studies.

Our contributions to the discussion include carefully assessed inputs in terms of plausible rainfall and runoff assumptions as well as carefully researched treatment plant construction and operations data. We have also applied spatial economic models that describe the consequences of building and paying for these projects by industry as well as by city and community.

Our combinations of cases and scenarios provide a range of results. Yet, which rainfall scenario and which plants case are the most relevant and deserving of special attention? We have highlighted a conservative combination, one that places one treatment plant in each of the region's 65 sub-basins and built to handle the runoff from a one-half inch rainstorm, the most likely precipitation event — but one which requires that regulators accept the fact that there will be pollution standard exceedance in the event of larger storms. That combination requires capital costs of \$43.7 billion and annual operating costs of \$127 million. Annual job losses, due to household spending diverted to finance these expenditures, range from over 22,000 jobs per year for the first 15 years, while the plants are being built, to almost 60,000 per year thereafter when the

economic stimulus from construction is no longer in effect. The net present value of the twenty-year costs of the conservative combination are \$24.851 billion. Los Angeles county's share of this sum is expected to be \$20.022 billion, or approximately \$6,670 per household (using the 2000 census count of approximately 3 million LA county households).

The requirements imposed by advanced treatment constitute a large component of a large cost. This requirement, therefore, requires further discussion. Advanced treatment requirements may be contested administratively and legally. In a few years, it is reasonable to suppose that technology improvements may reduce advanced treatment costs to the point that the administrative discussions are resolved. In light of the very large costs involved, and the pace of technological change, it is possible that very large costs will have been incurred for facilities that are unnecessary.

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Appendix A:
Worksheet and Supporting Economic Model Outputs

Table A1. Annual Total Stimulus and Annual Total Household Expenditure Reduction by Scenario

Millions of \$ 1999

Case I : 480, 161, 933 Plants		Scenario 1 : 24h, 1.25"	Scenario 2 : 24h, 0.5"	Scenario 3 : 24h, 2.25"
Capital Costs	a) Collection System	12,489	7,228	17,419
	b) Land Costs (Levels 1 & 2)	24,968	8,356	48,522
	c) Level 3 without Land	64,909	21,738	126,232
	Annual Costs W/O Land Costs (A) = (a+c)/15	5,160	1,931	9,577
	Annualized Total Capital Costs with Land Costs (B) = (a+b+c)/13.5903	7,532	2,746	14,140
O & M Costs	Annualized Underwriting Costs (C) = [(a+b+c)*0.1]/13.5903	753	275	1,414
	d) Collection System	10	6	14
	e) Level 3 plus Levels 1 & 2	227	76	441
	Annual Total O & M Costs (D) = d+e	237	82	455
	Annual Total Stimulus for years 1 - 15 = A+C+D/2	6,032	2,247	11,218
Annual Total Stimulus for years 16 - 20 = C+D		990	357	1,869
Annual Total Household Expenditure Reduction for years 1 - 20 = B+C+(5D+15D/2)/20		8,434	3,072	15,839
Case II : 65 Plants		Scenario 1 : 24h, 1.25"	Scenario 2 : 24h, 0.5"	Scenario 3 : 24h, 2.25"
Capital Costs	a) Collection System	45,407	13,222	108,272
	b) Land Costs (Levels 1 & 2)	24,556	8,217	47,716
	c) Level 3 without Land	65,573	22,298	127,900
	Annual Costs W/O Land Costs (A) = (a+c)/15	7,399	2,368	15,745
	Annualized Total Capital Costs with Land Costs (B) = (a+b+c)/13.5903	9,973	3,218	20,889
O & M Costs	Annualized Underwriting Costs (C) = [(a+b+c)*0.1]/13.5903	997	322	2,089
	d) Collection System	37	11	89
	e) Level 3 plus Levels 1 & 2	342	116	666
	Annual Total O & M Costs (D) = d+e	379	127	755
	Annual Total Stimulus for years 1 - 15 = A+C+D/2	8,586	2,753	18,211
Annual Total Stimulus for years 16 - 20 = C+D		1,376	448	2,844
Annual Total Household Expenditure Reduction for years 1 - 20 = B+C+(5D+15D/2)/20		11,207	3,619	23,450
Case III : 130 Plants		Scenario 1 : 24h, 1.25"	Scenario 2 : 24h, 0.5"	Scenario 3 : 24h, 2.25"
Capital Costs	a) Collection System	60,162	16,013	148,558
	b) Land Costs (Levels 1 & 2)	23,690	7,928	46,037
	c) Level 3 without Land	63,873	24,363	130,949
	Annual Costs W/O Land Costs (A) = (a+c)/15	8,269	2,692	18,634
	Annualized Total Capital Costs with Land Costs (B) = (a+b+c)/13.5903	10,870	3,554	23,954
O & M Costs	Annualized Underwriting Costs (C) = [(a+b+c)*0.1]/13.5903	1,087	355	2,395
	d) Collection System	49	13	122
	e) Level 3 plus Levels 1 & 2	222	78	438
	Annual Total O & M Costs (D) = d+e	272	92	559
	Annual Total Stimulus for years 1 - 15 = A+C+D/2	9,492	3,093	21,309
Annual Total Stimulus for years 16 - 20 = C+D		1,359	447	2,855
Annual Total Household Expenditure Reduction for years 1 - 20 = B+C+(5D+15D/2)/20		12,127	3,967	26,699

NOTES:

- Entries a, b, c, d, e Refer to the relevant cells of Tables 1-3.
- A = (a+c)/15 Refers to the spreading out of capital costs over 15 years.
- B = (a+b+c)/13.5903 Refers to the 20-year 4% annuitized value of capital costs, including land.
- C = (a+b+c)*0.1/13.5903 Refers to the 20-year 4% annuitized value of underwriting costs.
- A + C + D/2 Refers to annual capital cost stimulus plus annualized stimulus of underwriting costs plus average start-up O & M costs for Years 1-15.
- C + D Refers to annualized underwriting costs plus full annual O & M costs for Years 16-20.
- B + C + (5D + 15D/2)/20 Annual household expenditure reduction, Years 1-20, is annual cost of all bonded indebtedness associated with the project, including capital, underwriting and O & M costs.

Table A2. Annual Direct Impacts for years 1 - 15

(Millions of \$ 1999)

Table A2. Annual Direct Impacts for Years 1-10														
Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total
	Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total					
Scenario I	194.8	1,401.7	342.2	514.9	793.3	225.7	45.0	958.9	4,476.5	0.1	0.0	0.0	0.5	4,477.1
Scenario II	96.2	445.0	145.2	247.3	235.2	73.8	11.1	412.8	1,666.7	0.0	0.0	0.0	0.3	1,667.1
Scenario III	289.6	2,535.1	628.3	1,029.0	1,468.5	440.7	38.3	1,918.8	8,326.5	0.2	0.0	0.0	0.8	8,327.5
Scenario I	110.1	2,177.3	1,098.3	629.7	1,424.8	224.6	0.0	716.7	8,381.5	0.0	0.0	0.0	0.3	8,381.8
Scenario II	33.3	685.2	313.3	211.1	461.4	74.2	0.0	268.1	2,046.6	0.0	0.0	0.0	0.1	2,046.8
Scenario III	215.5	4,569.9	2,518.9	1,360.3	2,966.7	453.5	0.0	1,428.2	13,533.0	0.1	0.0	0.1	0.5	13,533.8
Scenario I	51.1	1,857.8	1,708.8	357.8	1,935.3	223.3	0.7	906.1	7,041.0	0.0	0.0	0.0	0.0	7,041.1
Scenario II	21.3	609.8	448.5	173.2	647.8	99.5	0.3	295.1	2,295.5	0.0	0.0	0.0	0.0	2,295.6
Scenario III	112.0	4,153.6	4,073.7	735.3	4,258.5	433.9	1.5	2,032.9	15,801.4	0.1	0.0	0.1	0.1	15,801.8
Scenario I	458.5	2,819.9	281.9	772.4	949.2	643.2	367.2	507.9	6,600.4	132.1	7.9	66.3	30.1	6,836.7
Scenario II	167.0	954.3	102.7	281.3	345.8	234.3	133.8	185.0	2,404.2	48.1	2.9	24.1	11.0	2,490.3
Scenario III	861.1	4,920.4	529.5	1,450.8	1,782.8	1,208.0	689.8	954.0	12,396.0	248.1	14.8	124.5	56.5	12,839.9
Scenario I	609.3	3,481.5	374.7	1,026.4	1,261.4	854.8	488.0	675.0	8,771.0	175.5	10.5	88.1	40.0	9,085.1
Scenario II	196.8	1,124.3	121.0	331.5	407.4	276.0	157.8	218.0	2,832.4	56.7	3.4	28.4	12.9	2,933.9
Scenario III	1,274.9	7,284.6	784.0	2,147.8	2,839.4	1,788.5	1,021.0	1,412.4	18,352.3	367.3	21.9	184.3	83.7	19,009.5
Scenario I	659.3	3,767.1	405.4	1,110.6	1,384.9	924.9	528.0	730.4	9,490.6	189.9	11.3	95.3	43.3	9,830.5
Scenario II	215.7	1,232.3	132.8	363.3	446.5	302.5	172.7	236.9	3,104.5	62.1	3.7	31.2	14.2	3,215.7
Scenario III	1,451.6	8,294.0	892.6	2,445.2	3,005.1	2,036.3	1,162.4	1,608.1	20,895.3	418.2	25.0	209.9	95.3	21,643.6
Scenario I	-263.8	-1,218.2	60.2	-257.4	-155.9	-417.5	-322.2	450.9	-2,123.9	-132.0	-7.9	-66.3	-29.6	-2,359.6
Scenario II	-70.8	-509.3	42.5	-34.1	-110.8	-180.5	-122.7	227.8	-737.8	-48.1	-2.9	-24.1	-10.8	-823.3
Scenario III	-591.6	-2,385.3	96.8	-421.6	-314.2	-787.3	-651.3	964.9	-4,069.5	-247.9	-14.8	-124.5	-55.8	-4,512.4
Scenario I	-499.2	-1,304.2	723.6	-396.7	163.4	-630.1	-488.0	41.7	-2,389.8	-175.5	-10.5	-88.1	-39.7	-2,703.2
Scenario II	-163.5	-439.1	192.4	-120.3	54.1	-201.9	-157.8	50.1	-785.8	-56.7	-3.4	-28.4	-12.8	-887.0
Scenario III	-1,059.5	-2,714.7	1,735.0	-787.3	347.3	-1,335.0	-1,021.0	15.9	-4,819.3	-367.2	-21.9	-184.3	-83.2	-5,475.9
Scenario I	-608.2	-1,909.4	1,303.3	-752.7	570.4	-701.6	-527.3	175.8	-2,449.7	-169.9	-11.3	-95.3	-43.2	-2,789.5
Scenario II	-194.4	-822.5	315.9	-190.0	201.3	-203.1	-172.4	58.2	-809.0	-62.1	-3.7	-31.2	-14.1	-820.1
Scenario III	-1,339.6	-4,140.4	3,181.1	-1,709.8	1,253.4	-1,602.4	-1,161.0	424.8	-5,093.8	-418.1	-25.0	-209.8	-95.2	-5,841.9

(Millions of \$ 1999)

Table A3. Annual Direct Impacts for years 16 - 20

Table A3. Annual Direct Impacts for years 16 - 20															
Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total	
	Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total						
CASE I	Scenario I	32.6	237.1	52.1	85.3	132.2	38.7	7.8	153.0	738.9	0.0	0.0	0.0	0.1	739.0
	Scenario II	15.6	72.7	21.3	39.6	37.7	12.3	1.9	64.0	285.0	0.0	0.0	0.0	0.1	285.1
	Scenario III	45.9	435.7	97.0	173.6	248.5	76.6	6.7	312.9	1,396.9	0.0	0.0	0.0	0.1	1,397.1
CASE II	Scenario I	20.5	371.2	143.1	98.6	251.3	40.2	0.0	117.2	1,040.0	0.0	0.0	0.0	0.1	1,040.1
	Scenario II	6.2	119.2	42.2	32.9	82.6	13.3	0.0	43.1	339.6	0.0	0.0	0.0	0.0	339.8
	Scenario III	40.1	758.2	318.7	203.2	512.1	79.7	0.0	231.4	2,141.5	0.0	0.0	0.0	0.1	2,141.8
CASE III	Scenario I	8.8	276.4	209.4	60.9	278.8	38.5	0.1	127.5	1,000.5	0.0	0.0	0.0	0.0	1,000.1
	Scenario II	3.4	91.4	57.0	27.5	94.4	16.0	0.1	42.3	332.1	0.0	0.0	0.0	0.0	332.1
	Scenario III	18.7	591.8	486.1	122.5	592.9	73.2	0.3	275.5	2,161.0	0.0	0.0	0.0	0.0	2,161.0
CASE I	Scenario I	458.5	2,619.9	281.9	772.4	849.2	643.2	367.2	507.9	6,800.4	132.1	7.9	86.3	30.1	6,836.7
	Scenario II	167.0	954.3	102.7	281.3	345.8	234.3	133.8	185.0	2,404.2	48.1	2.9	24.1	11.0	2,490.3
	Scenario III	861.1	4,920.4	529.5	1,450.8	1,782.8	1,208.0	689.6	954.0	12,396.0	248.1	14.8	124.5	56.5	12,838.9
CASE II	Scenario I	609.3	3,481.5	374.7	1,026.4	1,261.4	854.8	488.0	675.0	8,771.0	175.5	10.5	88.1	40.0	9,085.1
	Scenario II	196.8	1,124.3	121.0	331.5	407.4	278.0	157.6	218.0	2,832.4	56.7	3.4	28.4	12.9	2,933.9
	Scenario III	1,274.9	7,284.6	784.0	2,147.6	2,639.4	1,788.5	1,021.0	1,412.4	18,352.3	387.3	21.9	184.3	83.7	19,009.5
CASE III	Scenario I	659.3	3,767.1	405.4	1,110.6	1,364.9	924.9	528.0	730.4	9,490.6	189.9	11.3	95.3	43.3	9,830.5
	Scenario II	215.7	1,232.3	132.8	363.3	446.5	302.5	172.7	238.9	3,104.5	62.1	3.7	31.2	14.2	3,215.7
	Scenario III	1,451.6	8,294.0	892.6	2,445.2	3,005.1	2,036.3	1,162.4	1,608.1	20,895.3	418.2	25.0	209.9	95.3	21,843.6
CASE I	Scenario I	-425.9	-2,382.8	-229.8	-687.0	-817.0	-604.5	-359.4	-355.0	-5,881.5	-132.1	-7.9	-66.3	-30.0	-6,097.7
	Scenario II	-151.5	-881.6	-81.4	-241.8	-308.1	-222.0	-131.9	-121.0	-2,139.2	-48.1	-2.9	-24.1	-10.9	-2,225.2
	Scenario III	-815.3	-4,484.7	-432.5	-1,277.0	-1,534.2	-1,131.4	-682.9	-641.0	-10,999.0	-248.1	-14.8	-124.5	-56.4	-11,442.8
CASE II	Scenario I	-588.8	-3,110.3	-231.6	-829.8	-1,010.1	-814.6	-486.0	-557.8	-7,731.0	-175.5	-10.5	-88.1	-39.9	-8,045.0
	Scenario II	-190.6	-1,005.0	-78.8	-298.6	-324.7	-262.7	-157.6	-174.9	-2,492.8	-56.7	-3.4	-28.4	-12.9	-2,594.2
	Scenario III	-1,234.8	-6,528.4	-465.2	-1,944.4	-2,127.2	-1,708.7	-1,021.0	-1,181.0	-16,210.7	-387.3	-21.9	-184.3	-83.6	-16,867.9
CASE III	Scenario I	-650.5	-3,490.8	-196.0	-1,049.7	-1,086.1	-866.4	-527.9	-602.8	-8,490.1	-189.9	-11.3	-95.3	-43.3	-8,830.0
	Scenario II	-212.2	-1,140.9	-75.7	-335.8	-352.1	-286.5	-172.7	-196.6	-2,772.4	-62.1	-3.7	-31.2	-14.2	-2,883.6
	Scenario III	-1,432.9	-7,702.2	-406.4	-2,322.6	-2,412.3	-1,963.1	-1,162.2	-1,332.6	-18,734.3	-418.2	-25.0	-209.9	-95.3	-19,482.6

Table A4. Annual Indirect Impacts for years 1 - 15

(Millions of \$ 1999)

Table A4. Annual Indirect Impacts for Years 1 - 15															
Scenario		Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total
		Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total					
CASE I	Scenario I	72.6	443.0	16.1	105.0	151.8	90.3	59.2	74.8	1,012.6	362.9	87.0	102.8	73.0	1,638.4
	Scenario II	27.0	165.1	6.0	39.1	56.6	33.7	22.1	27.9	377.5	135.3	32.4	38.3	27.2	610.7
	Scenario III	134.9	823.7	30.0	195.2	282.2	167.8	110.1	139.0	1,882.8	674.9	161.9	191.2	135.7	3,046.5
CASE II	Scenario I	103.4	632.5	23.0	149.9	217.1	129.1	84.5	106.9	1,448.4	518.0	124.4	146.9	104.3	2,338.9
	Scenario II	33.2	202.8	7.4	48.1	69.6	41.4	27.1	34.3	463.7	166.1	39.9	47.1	33.4	750.2
	Scenario III	219.4	1,342.1	48.9	318.0	460.8	273.9	179.3	226.8	3,069.0	1,098.9	263.9	311.7	221.4	4,964.0
CASE III	Scenario I	114.3	698.9	25.4	165.6	240.0	142.7	93.4	118.1	1,598.4	572.4	137.3	162.2	115.3	2,585.0
	Scenario II	37.2	227.7	8.3	53.9	78.2	46.5	30.4	38.5	520.8	186.5	44.7	52.9	37.6	842.5
	Scenario III	258.7	1,569.8	57.1	371.9	539.4	320.7	209.8	265.3	3,590.6	1,285.5	308.4	364.4	259.0	5,807.9
CASE I	Scenario I	89.0	549.3	20.6	137.2	192.1	107.7	68.1	95.7	1,259.7	450.0	110.1	132.2	94.0	2,046.0
	Scenario II	32.4	200.1	7.5	50.0	70.0	39.2	24.8	34.9	458.9	163.9	40.1	48.2	34.2	745.3
	Scenario III	167.1	1,031.7	38.6	257.8	360.8	202.3	128.0	179.8	2,365.9	845.1	206.7	248.3	176.5	3,842.5
CASE II	Scenario I	118.2	730.0	27.3	182.4	255.3	143.1	90.5	127.2	1,874.0	598.0	146.3	175.7	124.9	2,718.8
	Scenario II	38.2	235.7	8.8	58.9	82.4	46.2	29.2	41.1	540.6	193.1	47.2	56.7	40.3	878.0
	Scenario III	247.3	1,527.4	57.2	381.8	534.1	299.5	189.4	266.1	3,502.7	1,251.1	306.0	367.8	281.3	5,688.8
CASE III	Scenario I	127.9	789.9	29.6	197.3	278.2	154.9	98.0	137.6	1,811.4	647.0	158.3	190.1	135.1	2,941.9
	Scenario II	41.8	258.4	9.7	64.8	90.4	50.7	32.0	45.0	592.5	211.6	51.8	62.2	44.2	962.3
	Scenario III	281.6	1,739.0	65.1	434.5	608.1	341.0	215.7	303.0	3,988.1	1,424.5	348.4	418.5	297.5	6,477.1
CASE I	Scenario I	-16.4	-106.4	-4.4	-32.3	-40.3	-17.4	-8.9	-21.0	-247.1	-87.0	-23.0	-29.4	-21.0	-407.5
	Scenario II	-5.4	-35.0	-1.5	-10.9	-13.4	-5.6	-2.7	-7.0	-81.4	-28.6	-7.8	-9.8	-7.0	-134.5
	Scenario III	-32.1	-208.0	-8.8	-62.6	-78.6	-34.5	-17.9	-40.8	-483.1	-170.2	-44.8	-57.1	-40.8	-796.0
CASE II	Scenario I	-14.8	-97.5	-4.3	-32.5	-38.2	-14.1	-6.0	-20.3	-227.7	-80.0	-21.9	-28.8	-20.8	-376.0
	Scenario II	-5.0	-32.9	-1.4	-10.8	-12.8	-4.8	-2.1	-6.8	-76.9	-27.0	-7.4	-9.6	-6.9	-127.7
	Scenario III	-27.9	-185.3	-8.3	-63.7	-73.3	-25.8	-10.2	-39.4	-433.7	-152.2	-42.2	-55.9	-39.9	-723.9
CASE III	Scenario I	-13.6	-91.0	-4.1	-31.8	-36.2	-12.2	-4.6	-19.6	-212.9	-74.6	-20.9	-27.9	-19.8	-358.2
	Scenario II	-4.6	-30.7	-1.4	-10.6	-12.2	-4.2	-1.6	-6.6	-71.7	-25.2	-7.0	-9.3	-6.6	-119.9
	Scenario III	-24.9	-169.2	-8.0	-62.6	-68.8	-20.3	-5.9	-37.8	-397.5	-139.0	-40.0	-54.2	-38.5	-669.2

Table A5. Annual Indirect Impacts for years 16 - 20

(Millions of \$ 1999)

Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total	
	Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total						
CASE I	Scenario I	11.0	60.1	2.2	14.4	17.3	10.5	8.2	9.3	133.0	51.1	11.8	13.7	9.1	218.6
	Scenario II	4.0	21.5	0.8	5.1	6.2	3.8	3.0	3.3	47.6	18.3	4.2	4.9	3.2	78.3
	Scenario III	20.8	113.8	4.2	27.2	32.7	19.9	15.6	17.8	251.6	96.6	22.3	28.0	17.2	413.8
CASE II	Scenario I	15.5	85.2	3.2	20.4	24.8	15.0	11.6	13.2	188.8	72.1	16.8	19.8	13.0	310.4
	Scenario II	5.0	27.9	1.0	6.7	8.1	4.9	3.8	4.3	61.8	23.6	5.5	6.4	4.2	101.5
	Scenario III	31.9	175.0	6.5	41.9	50.8	30.8	23.9	27.2	387.9	148.3	34.5	40.3	28.6	637
CASE III	Scenario I	15.0	80.8	3.0	19.3	22.8	14.0	11.1	12.3	178.1	68.8	15.7	18.3	12.1	283.0
	Scenario II	4.9	26.6	1.0	6.4	7.5	4.6	3.7	4.1	58.8	22.7	5.2	6.0	4.0	98.7
	Scenario III	32.5	174.2	6.5	41.7	49.2	30.2	24.1	26.5	384.7	148.0	33.9	39.4	26.1	633.2
CASE I	Scenario I	89.0	549.3	20.6	137.2	192.1	107.7	88.1	95.7	1,259.7	450.0	110.1	132.2	94.0	2,046.0
	Scenario II	32.4	200.1	7.5	50.0	70.0	39.2	24.8	34.9	458.9	163.9	40.1	48.2	34.2	745.3
	Scenario III	187.1	1,031.7	38.8	257.8	360.8	202.3	128.0	178.8	2,365.9	845.1	208.7	248.3	176.5	3,842.5
CASE II	Scenario I	118.2	730.0	27.3	182.4	255.3	143.1	90.5	127.2	1,674.0	598.0	148.3	175.7	124.8	2,718.8
	Scenario II	38.2	235.7	8.8	58.9	82.4	46.2	29.2	41.1	540.6	193.1	47.2	56.7	40.3	878.0
	Scenario III	247.3	1,527.4	57.2	361.5	534.1	299.5	189.4	266.1	3,502.7	1,251.1	306.0	387.6	261.3	5,888.8
CASE III	Scenario I	127.9	789.9	29.6	197.3	276.2	154.9	98.0	137.6	1,811.4	647.0	158.3	190.1	135.1	2,941.9
	Scenario II	41.8	258.4	9.7	64.8	90.4	50.7	32.0	45.0	592.5	211.6	51.8	62.2	44.2	962.3
	Scenario III	281.6	1,739.0	65.1	434.5	608.1	341.0	215.7	303.0	3,988.1	1,424.5	348.4	418.5	297.5	6,477.1
CASE I	Scenario I	-77.9	-489.3	-18.3	-122.9	-174.8	-97.2	-59.9	-86.5	-1,128.8	-398.9	-98.3	-118.5	-84.9	-1,827.3
	Scenario II	-28.4	-178.6	-6.7	-44.8	-63.8	-35.5	-21.9	-31.6	-411.3	-145.6	-35.9	-43.2	-31.0	-687.0
	Scenario III	-146.2	-918.0	-34.4	-230.8	-328.1	-182.4	-112.4	-162.2	-2,114.3	-748.5	-184.4	-222.3	-159.3	-3,428
CASE II	Scenario I	-102.7	-644.8	-24.1	-162.0	-230.5	-128.1	-78.9	-114.0	-1,485.2	-525.8	-129.4	-156.0	-111.9	-2,408
	Scenario II	-33.1	-207.9	-7.8	-52.2	-74.3	-41.3	-25.4	-36.7	-478.8	-169.5	-41.7	-50.3	-38.1	-776.5
	Scenario III	-215.4	-1,352.4	-50.8	-339.7	-483.4	-288.7	-185.6	-239.0	-3,114.8	-1,102.8	-271.5	-327.3	-234.7	-5,051.2
CASE III	Scenario I	-112.9	-709.3	-28.6	-178.1	-253.4	-140.9	-88.8	-125.3	-1,833.3	-578.2	-142.5	-171.8	-123.0	-2,646.8
	Scenario II	-38.9	-231.8	-8.7	-58.2	-82.8	-46.0	-28.4	-41.0	-533.8	-189.0	-46.6	-56.1	-40.2	-865.7
	Scenario III	-249.1	-1,584.9	-58.8	-392.8	-559.0	-310.8	-191.8	-276.5	-3,603.3	-1,275.5	-314.5	-379.1	-271.4	-5,843.9

(Millions of \$ 1999)

Table A6. Annual Induced Impacts for years 1 - 15

Table A6. Annual Induced Impacts for years 1 - 15															
Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total	
	Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total						
CASE I	Scenario I	88.2	537.8	33.3	156.7	200.7	116.9	72.0	96.6	1,302.2	426.5	175.1	196.3	106.1	2,210.2
	Scenario II	32.9	200.4	12.4	58.4	74.8	43.6	26.8	36.0	485.3	159.7	65.2	73.9	39.5	823.6
	Scenario III	163.9	1,000.1	61.9	291.5	373.3	217.4	133.8	179.6	2,421.5	796.9	325.6	368.8	197.2	4,109.9
CASE II	Scenario I	125.7	767.1	47.4	223.6	286.3	166.7	102.6	137.8	1,857.3	611.2	249.7	282.8	151.3	3,152.3
	Scenario II	40.3	246.0	15.2	71.7	91.8	53.5	32.9	44.2	595.5	196.0	80.1	90.7	48.5	1,010.7
	Scenario III	268.8	1,827.5	100.7	474.3	607.5	353.8	217.7	292.3	3,940.5	1,296.7	529.8	600.1	321.0	6,886.0
CASE III	Scenario I	139.0	848.0	52.4	247.1	316.5	184.3	113.4	152.3	2,053.2	675.7	276.0	312.7	167.2	3,484.7
	Scenario II	45.3	278.3	17.1	80.5	103.1	60.1	37.0	49.6	669.0	220.1	89.9	101.9	54.5	1,135.
	Scenario III	312.2	1,904.5	117.8	555.0	710.8	414.0	254.8	342.0	4,611.1	1,517.4	619.9	702.2	375.6	7,826.2
CASE I	Scenario I	115.1	702.4	43.4	204.7	262.2	152.7	94.0	126.2	1,700.7	559.7	228.7	259.0	136.5	2,866.6
	Scenario II	41.9	255.9	15.8	74.6	95.5	55.6	34.2	46.0	619.5	203.9	83.3	94.3	50.5	1,051.5
	Scenario III	216.2	1,319.2	81.6	384.5	492.4	288.8	176.5	236.9	3,194.1	1,051.1	429.4	488.4	260.2	5,421.3
CASE II	Scenario I	153.0	833.4	57.7	272.0	348.4	202.9	124.9	167.6	2,280.1	743.7	303.9	344.2	184.1	3,835.9
	Scenario II	49.4	301.4	18.6	87.8	112.5	65.5	40.3	54.1	729.8	240.2	98.1	111.1	59.4	1,238.7
	Scenario III	320.1	1,953.1	120.8	569.2	729.0	424.6	281.3	350.8	4,728.9	1,556.2	635.8	720.1	365.2	8,028.2
CASE III	Scenario I	165.6	1,010.0	62.5	294.4	377.0	219.6	135.1	181.4	2,445.5	804.8	328.8	372.4	199.2	4,150.6
	Scenario II	54.2	330.4	20.4	96.3	123.3	71.8	44.2	59.3	800.0	263.3	107.6	121.8	65.2	1,357.7
	Scenario III	364.5	2,223.8	137.5	648.1	830.0	483.4	297.5	398.4	5,384.1	1,771.8	723.9	819.9	436.5	9,138.3
CASE I	Scenario I	-27.0	-164.6	-10.2	-48.0	-61.4	-35.8	-22.0	-29.6	-398.5	-131.2	-53.6	-60.7	-32.5	-676.4
	Scenario II	-9.1	-55.4	-3.4	-16.2	-20.7	-12.1	-7.4	-10.0	-134.2	-44.2	-18.0	-20.4	-10.9	-227.8
	Scenario III	-52.3	-319.1	-19.7	-93.0	-119.1	-69.4	-42.7	-57.3	-772.6	-254.3	-103.9	-117.7	-62.9	-1,311.4
CASE II	Scenario I	-27.3	-166.4	-10.3	-48.5	-62.1	-36.2	-22.3	-28.9	-402.8	-132.6	-54.2	-61.3	-32.8	-683.6
	Scenario II	-9.1	-55.5	-3.4	-16.2	-20.7	-12.1	-7.4	-10.0	-134.3	-44.2	-18.1	-20.5	-10.9	-228.
	Scenario III	-53.4	-325.6	-20.1	-94.9	-121.5	-70.8	-43.6	-58.5	-788.4	-259.5	-106.0	-120.1	-64.2	-1,338.1
CASE III	Scenario I	-26.6	-162.0	-10.0	-47.2	-60.5	-35.2	-21.7	-28.1	-392.3	-129.1	-52.7	-59.7	-32.0	-685.8
	Scenario II	-8.9	-54.1	-3.3	-15.8	-20.2	-11.8	-7.2	-9.7	-131.0	-43.1	-17.8	-19.9	-10.7	-222.3
	Scenario III	-52.3	-319.3	-19.7	-93.1	-119.2	-69.4	-42.7	-57.3	-773.1	-254.4	-103.9	-117.7	-63.0	-1,312.1

(Millions of \$ 1999)

Table A7. Annual Induced Impacts for years 16 - 20

Table A7. Annual Induced Impacts for years 10 to 20															
Scenario	Los Angeles County									Orange County	Riverside County	San Bernardino County	Ventura County	Total	
	Arroyo Verdugo	City of Los Angeles	North Los Angeles County	San Gabriel Valley	Southeast Los Angeles County	South Bay	Westside Cities	Other Los Angeles County	Los Angeles County Total						
CASE I	Scenario I	12.7	77.4	4.8	22.6	28.9	16.8	10.4	13.9	187.3	81.7	25.2	28.5	15.3	318.0
	Scenario II	4.8	27.8	1.7	8.1	10.4	6.0	3.7	5.0	67.2	22.1	9.0	10.2	5.5	114.1
	Scenario III	24.0	146.3	9.0	42.8	54.6	31.8	19.6	28.3	354.1	118.5	47.8	53.9	28.8	601.1
CASE II	Scenario I	17.8	108.7	6.7	31.7	40.6	23.6	14.5	19.5	263.3	86.6	35.4	40.1	21.4	446.9
	Scenario II	5.8	35.5	2.2	10.3	13.3	7.7	4.7	8.4	86.0	28.3	11.6	13.1	7.0	145.9
	Scenario III	38.7	224.0	13.9	65.3	83.8	48.7	30.0	40.2	542.3	178.5	72.9	82.6	44.2	920.5
CASE III	Scenario I	17.2	104.9	6.5	30.6	39.2	22.8	14.0	18.8	254.0	83.6	34.1	38.7	20.7	431.1
	Scenario II	5.7	34.6	2.1	10.1	12.9	7.5	4.8	6.2	83.7	27.5	11.2	12.7	6.8	142.1
	Scenario III	37.3	227.4	14.1	68.3	84.9	49.4	30.4	40.8	550.5	181.2	74.0	83.8	44.8	934.3
CASE I	Scenario I	115.1	702.4	43.4	204.7	282.2	152.7	94.0	128.2	1,700.7	559.7	228.7	259.0	138.5	2,886.6
	Scenario II	41.9	255.9	15.8	74.6	95.5	55.6	34.2	48.0	619.5	203.9	83.3	94.3	50.5	1,051.5
	Scenario III	218.2	1,319.2	81.6	384.5	492.4	286.8	176.5	238.9	3,194.1	1,051.1	429.4	488.4	260.2	5,421.3
CASE II	Scenario I	153.0	933.4	57.7	272.0	348.4	202.9	124.9	107.8	2,280.1	743.7	303.9	344.2	184.1	3,835.9
	Scenario II	49.4	301.4	18.8	87.8	112.5	65.5	40.3	54.1	729.8	240.2	98.1	111.1	59.4	1,238.7
	Scenario III	320.1	1,953.1	120.8	569.2	729.0	424.6	261.3	350.8	4,728.9	1,556.2	635.8	720.1	385.2	8,026.2
CASE III	Scenario I	165.8	1,010.0	62.5	294.4	377.0	219.6	135.1	181.4	2,445.5	804.8	328.8	372.4	199.2	4,150.8
	Scenario II	54.2	330.4	20.4	96.3	123.3	71.8	44.2	59.3	800.0	283.3	107.6	121.8	65.2	1,357.7
	Scenario III	364.5	2,223.8	137.5	648.1	830.0	483.4	297.5	399.4	5,384.1	1,771.8	723.9	819.9	438.5	9,138.3
CASE I	Scenario I	-102.5	-625.1	-38.7	-182.2	-233.3	-135.9	-83.8	-112.3	-1,513.4	-498.0	-203.5	-230.5	-123.3	-2,588.6
	Scenario II	-37.4	-228.1	-14.1	-66.5	-85.1	-49.6	-30.5	-41.0	-552.3	-181.7	-74.2	-84.1	-45.0	-937.3
	Scenario III	-192.3	-1,173.0	-72.5	-341.8	-437.8	-255.0	-158.9	-210.7	-2,840.0	-934.6	-381.8	-432.5	-231.3	-4,820.2
CASE II	Scenario I	-135.2	-824.7	-51.0	-240.3	-307.8	-179.3	-110.3	-148.1	-1,996.8	-657.1	-288.5	-304.1	-162.8	-3,389.0
	Scenario II	-43.6	-265.9	-18.4	-77.5	-99.3	-57.8	-35.8	-47.8	-643.9	-211.9	-86.6	-98.1	-52.4	-1,092.1
	Scenario III	-283.4	-1,728.1	-108.9	-503.9	-645.4	-375.9	-231.3	-310.5	-4,186.5	-1,377.7	-562.9	-637.5	-341.0	-7,105.7
CASE III	Scenario I	-148.4	-905.1	-56.0	-263.8	-337.8	-196.8	-121.1	-162.6	-2,191.5	-721.2	-294.8	-333.7	-178.5	-3,719.6
	Scenario II	-48.5	-295.8	-18.3	-86.2	-110.4	-64.3	-39.6	-53.1	-716.3	-235.7	-96.3	-109.1	-58.3	-1,215.7
	Scenario III	-327.2	-1,986.4	-123.5	-581.8	-745.2	-434.0	-267.1	-358.5	-4,833.7	-1,590.7	-649.9	-736.1	-393.7	-8,204.0

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[illegible]

March 2000

City and ZIP	CASE I				CASE II				CASE III				CASE IV				CASE V				CASE VI				CASE VII				CASE VIII				CASE IX				CASE X				CASE XI				CASE XII				CASE XIII				CASE XIV				CASE XV				CASE XVI				CASE XVII				CASE XVIII				CASE XIX				CASE XX				CASE XXI				CASE XXII				CASE XXIII				CASE XXIV				CASE XXV				CASE XXVI				CASE XXVII				CASE XXVIII				CASE XXIX				CASE XXX				CASE XXXI				CASE XXXII				CASE XXXIII				CASE XXXIV				CASE XXXV				CASE XXXVI				CASE XXXVII				CASE XXXVIII				CASE XXXIX				CASE XL				CASE XLI				CASE XLII				CASE XLIII				CASE XLIV				CASE XLV				CASE XLVI				CASE XLVII				CASE XLVIII				CASE XLIX				CASE L				CASE LI				CASE LII				CASE LIII				CASE LIV				CASE LV				CASE LVI				CASE LVII				CASE LVIII				CASE LVIX				CASE LX				CASE LXI				CASE LXII				CASE LXIII				CASE LXIV				CASE LXV				CASE LXVI				CASE LXVII				CASE LXVIII				CASE LXIX				CASE LXX				CASE LXXI				CASE LXXII				CASE LXXIII				CASE LXXIV				CASE LXXV				CASE LXXVI				CASE LXXVII				CASE 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Table A12. Annual Direct Impacts (Year 1-Year 15)

[illegible]

Brown and Caldwell typical plant size of 45.2 MG was then used to treat the different flow amounts for Case I.

In contrast, Cases II and III require construction of treatment plants with a wide variety of capacities. For plants up to 100 MG, we used Brown and Caldwell's cost capacity equation. For plants larger than 100 to 150 MG, we used \$2.2 M per MG of runoff to be treated. For plants from 150 to 250 MG, we used \$2.4 M per MG of runoff to be treated. For plants of more than 250, we used \$2.5 M per MG of runoff to be treated. These costs are consistent with both the Brown and Caldwell and with the LACSD studies.

The cost capacity equation is

$$C = K \times [Q^{0.6}], \quad (1.)$$

where

C = cost of construction in million of dollars,

K = cost capacity constant of 11,237,200, and

Q = design flow in millions of gallons.

Table 1 gives construction costs for plant sizes representative of the hundreds in the study. These costs are based on tertiary treatment. Corrections for real estate costs based on specific plant location are applied to each of these values for each plant in every combination of case and scenario. Note that plant real estate costs constitute a large portion of the total cost of all combinations.

Although Brown and Caldwell and LACSD effectively agree on the total plant costs, they disagree on exact breakdown for the three levels of treatment. This disagreement is likely based on specific methods used in each process and into which level of treatment each process is assigned. We calculated the breakdown based on the total project cost where 31.36 percent is the cost for the Level I

(primary) treatment, 14.98 percent is the cost for the Level II (secondary) treatment, and 53.66 percent is the cost for the Level III (tertiary) treatment.

Table 1: Representative Treatment Plant Construction Costs

Plant Design Capacity	Construction Cost
1 MG plant	\$ 11,237,200
25 MG plant	\$ 77,521,491
45.2 MG plant (Brown and Caldwell Model)	\$ 110,596,446
100 MG plant	\$ 178,097,618
200 MG plant	\$ 480,000,000
500 MG plant	\$ 1,250,000,000
1,000MG plant	\$ 2,500,000,000
2,500 MG plant	\$ 6,250,000,000

The costs of this study are based upon the following assumptions concerning treatment processes.

- Level I treatment includes sewage pumping, screening and grinding, grit removal, influent chemical systems, and primary sedimentation.
- Level II treatment includes chlorination, scrubbers, dechlorination, effluent filtration, effluent screening, effluent pumping/disposal, and defoament.
- Level III treatment includes reverse osmosis.

These processes are typical use in the industry today and are consistent with the Brown and Caldwell and LACSD studies.

II.2.5 Collection system costs

Collection system costs are a function of the area of land to be treated by a plant and the amount of flow, which is in turn a function of runoff. For example, two basins of the same size (a fixed amount of land) with varying flows would have different collection system costs. Similarly, two basins of the same flow, but with different land areas would also have different collection system costs. This method is consistent with the methods used by Brown and Caldwell and by LACSD.

The equation to calculate the collection system cost is

$$C = K \times [(A \times Q)^{0.5}] \quad (2.)$$

Where

C = cost of collection system in million of dollars,

$$K = 0.0001318 \times Q + 0.0594214, \quad (2.a)$$

A = drainage area in acres, and

Q = design flow of in millions of gallons.

II.2.6 Operations and maintenance costs

Annual operations and maintenance (O&M) costs were calculated on a percentage basis with a different percentage for each level of treatment. This method is consistent with the methods used by Brown and Caldwell and by LACSD.

The O& M cost equation is

$$C = M \div F, \quad (3.)$$

where

C = cost of operations and maintenance in million of dollars;

M = capital cost for each functional element of the plant (collection system, level I treatment, level II treatment, and level III treatment), in million of dollars; and

F = factor based on plant function, where

$$F_{\text{collection}} = 1220.30,$$

$$F_{\text{level I}} = 484.66,$$

$$F_{\text{level II}} = 333.19, \text{ and}$$

$$F_{\text{level III}} = 269.56.$$

II.3 Summary of Cost Estimates

Tables 2-4 summarize runoff and cost information for the nine combinations of rainfall scenarios and plant siting cases. Data are presented for the county's seven watersheds as well as county totals. The volume of storm water runoff was computed using modified coefficients of runoff with consideration of antecedent conditions. The runoff coefficients for the seven watersheds in each of the three rainfall scenarios are represented in Column 2 of Tables 2-4. In computing the total runoff volume it was also assumed that the first 0.06" of the design rainfall was assumed to fill the local depression areas and, therefore, did not contribute to runoff. The computed total runoff values for the seven drainage basins under each of the scenarios are shown in Column 4 of Tables 2-4.

Economic impact analysis requires particular attention to the columns headed "Collection System" and "Level III plus Levels I and II." These entries include land costs. As noted above, Level I (physical) treatment consists of equalization and sedimentation. Level II (disinfection) treatment consists of disinfection and dechlorination. Level III (advanced) treatment is the most ambitious and conventionally consists of reverse osmosis to remove heavy metals.

Table 2. Plants Case I - 480 PLANTS PER SUB-BASIN (45.2 MG PLANTS)

Rainfall Scenario I - 24 inch, 1.25 inch storm														
Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs						O & M Costs			
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.569	89,091	1,337	27	628	1,954	2,837	6,231	-2,022	4,309	0.5	2.4	5.2	14.0
Upper Los Angeles River	0.452	522,061	7,572	172	4,111	10,378	15,335	33,097	8,898	23,981	3.4	13.8	29.7	79.2
Malibu	0.299	96,729	858	20	835	1,535	2,289	4,865	1,754	3,145	0.5	1.7	3.7	10.0
San Gabriel	0.403	370,468	4,774	107	2,749	8,345	9,375	20,233	6,989	14,425	2.3	8.7	18.7	49.9
Santa Ana	0.423	15,880	214	5	120	249	369	794	-182	613	0.1	0.4	0.8	2.2
Santa Clara	0.294	491,947	4,841	104	3,124	4,244	8,770	13,532	1,339	12,177	2.6	8.5	18.2	48.5
Santa Monica Bay	0.504	134,429	2,180	44	1,122	3,479	5,140	11,094	3,933	7,962	0.9	4.0	8.6	22.9
Total		1,702,404	21,894	488	12,488	28,185	41,845	86,877	34,988	64,989	18	68	85	227

Rainfall Scenario II - 24 inch, 1.50 inch storm														
Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs						O & M Costs			
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.539	89,091	445	10	363	650	961	2,074	678	1,401	0.3	0.8	1.7	4.7
Upper Los Angeles River	0.407	522,061	2,536	56	2,380	3,479	5,140	11,093	3,324	7,770	2.0	4.6	10.0	26.5
Malibu	0.289	96,729	317	7	368	509	732	1,824	882	1,042	0.3	0.8	1.2	3.3
San Gabriel	0.363	370,468	1,809	36	1,595	2,134	3,154	8,807	1,984	6,803	1.3	2.9	6.3	16.8
Santa Ana	0.381	15,880	71	2	89	122	283	60	-303	383	0.1	0.1	0.3	0.7
Santa Clara	0.265	491,947	1,567	34	1,809	1,424	2,104	4,540	465	4,085	1.5	2.8	8.1	18.3
Santa Monica Bay	0.454	134,429	729	16	647	1,158	1,711	3,893	1,309	2,584	0.5	1.3	2.9	7.8
Total		1,702,404	7,283	161	7,328	9,437	13,944	30,954	6,588	21,736	6	13	29	79

Rainfall Scenario III - 24 inch, 2.25 inch storm														
Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs						O & M Costs			
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.629	89,091	2,584	57	874	3,776	5,580	12,043	3,907	8,139	0.7	4.7	10.1	27.0
Upper Los Angeles River	0.478	522,061	14,750	328	5,737	20,218	29,873	64,471	18,319	46,185	4.7	26.9	57.8	154.3
Malibu	0.314	96,729	1,843	41	882	2,960	4,374	9,439	3,381	6,058	0.7	3.4	7.2	19.3
San Gabriel	0.423	370,468	9,318	206	3,841	12,384	18,299	36,492	11,238	25,254	3.1	17.0	36.5	97.5
Santa Ana	0.444	15,880	414	8	187	482	712	1,536	351	1,186	0.1	0.8	1.6	4.3
Santa Clara	0.309	491,947	9,009	200	4,380	8,285	12,212	26,356	3,838	33,717	3.8	18.5	35.4	94.5
Santa Monica Bay	0.528	134,429	4,228	94	1,559	8,718	9,824	21,417	7,881	13,537	1.3	7.7	18.6	44.2
Total		1,702,404	42,176	833	17,419	54,802	86,873	174,754	46,532	128,222	14	77	185	441

Reviewing all possible combinations of scenarios and cases, capital costs (including land) were lowest for Plant Case I, Rainfall Scenario II (\$37 billion) and highest for Plant Case III, Rainfall Scenario III (\$325.54 billion). Annual operations and maintenance costs were lowest for Plant Cases I and II and Rainfall Scenario II (\$76 million) and were highest for Plant Case II, Rainfall Scenario III (\$755 million). Collection System costs were added to these respective totals to define the basis for economic impact modeling.

Table 3. Plants Case II - ONE PLANT PER SUB-BASIN (65 PLANTS)

Rainfall Scenario I - 24 hour, 1.25 inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Capital Costs					O & M Costs				
					Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.599	73,925	1,337	2	1,547	1,960	2,925	6,314	2,022	4,291	1.3	6.0	16.9	24.0
Upper Los Angeles River	0.452	527,446	7,572	9	17,147	10,390	15,352	33,132	9,700	23,432	14.1	31.7	99.4	125.7
Malibu	0.299	99,862	956	24	868	1,825	2,401	5,182	1,880	3,307	0.5	5.0	15.6	19.7
San Gabriel	0.403	377,505	4,774	10	9,855	6,233	9,210	18,878	6,888	14,378	7.8	19.0	58.7	75.4
Santa Ana	0.423	18,834	214	5	133	283	369	839	987	462	0.1	0.8	2.5	3.2
Santa Clara	0.294	498,500	4,841	9	14,206	4,246	8,274	13,541	1,815	12,228	11.8	12.9	40.6	51.4
Santa Monica Bay	0.504	136,878	2,180	6	2,049	3,527	5,211	11,246	3,931	7,315	1.7	10.8	33.8	42.7
Total		1,730,549	21,884	85	43,407	29,284	41,762	86,129	24,888	66,972	37	88	271	342

Rainfall Scenario II - 24 hour, 0.50 inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Capital Costs					O & M Costs				
					Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs, Levels 1 & 2	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.539	73,925	445	2	524	653	965	2,084	678	1,410	0.4	2.0	6.3	7.9
Upper Los Angeles River	0.407	527,446	2,536	9	4,773	3,455	5,105	11,017	3,291	7,785	3.9	10.5	31.1	41.8
Malibu	0.269	99,862	317	24	351	873	964	2,145	638	1,517	0.3	2.1	6.4	8.1
San Gabriel	0.363	377,505	1,806	10	2,855	2,133	3,152	8,802	1,948	4,862	2.3	6.5	20.4	25.8
Santa Ana	0.381	18,834	71	5	86	112	165	356	85	269	0.1	0.3	1.1	1.3
Santa Clara	0.285	498,500	1,557	9	3,861	1,433	2,117	4,569	441	4,128	3.2	4.4	13.7	17.3
Santa Monica Bay	0.454	136,878	729	6	790	1,111	1,842	3,543	1,306	2,236	0.8	3.4	10.8	13.4
Total		1,730,549	7,283	85	13,222	8,986	14,136	36,518	8,317	22,206	11	28	92	116

Rainfall Scenario III - 24 hour, 2.25 inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Capital Costs					O & M Costs				
					Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.629	73,925	2,584	2	3,390	3,827	5,654	12,202	3,806	8,390	2.8	11.7	36.6	48.3
Upper Los Angeles River	0.475	527,446	14,750	9	41,851	20,291	29,962	64,706	18,884	45,812	34.1	61.9	194.2	245.5
Malibu	0.314	99,862	1,843	24	1,042	3,015	4,452	9,806	3,854	8,864	0.9	9.2	28.6	36.5
San Gabriel	0.423	377,505	8,318	10	22,972	12,263	18,129	38,108	16,721	28,378	18.8	37.4	117.4	148.4
Santa Ana	0.444	18,834	414	5	211	485	731	1,578	381	1,198	0.2	1.5	4.7	6.0
Santa Clara	0.309	498,500	9,039	9	34,840	8,379	12,381	26,720	2,868	24,162	26.6	25.5	80.2	101.4
Santa Monica Bay	0.529	136,878	4,228	6	4,187	8,803	10,052	21,864	7,588	14,105	3.4	20.7	85.1	92.3
Total		1,730,549	42,176	85	106,272	55,872	81,372	175,616	47,796	127,988	88	188	527	686

Throughout this report, we afford special attention to the 65 Plants Case (II), which places one treatment plant in each sub-basin. In the interests of remaining conservative we will highlight the one-half-inch storm, Scenario II. The caveat, of course, is the implication that regulators will have to allow for pollution exceedance in periods of larger storms. For simplicity, we will occasionally refer to the highlighted combination as simply (II, II). Table 3 shows that capital costs for (II, II) are \$43.7 billion while annual operating costs are \$127 million.

Table 3. Plants Case III - ONE PLANT PER CITY/CDP (150 PLANTS)

Runoff Scenario I, 24-hour, 1.5-inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs					O & M Costs				
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.569	72,036	1,337	18	833	1,916	2,832	6,111	1,876	4,136	0.7	2.4	5.2	13.8
Upper Los Ang	0.452	519,839	7,572	44	18,025	10,267	15,170	32,739	8,882	23,858	14.8	13.6	29.2	78.0
Malibu	0.299	98,026	856	7	1,227	1,486	2,185	4,737	1,838	3,902	1.0	1.7	3.6	9.7
San Gabriel	0.403	371,403	4,774	37	8,487	8,116	9,037	18,506	5,810	13,695	7.0	8.3	17.8	47.4
Santa Ana	0.423	18,365	214	4	129	219	322	884	176	818	0.1	0.4	0.9	2.1
Santa Clara	0.294	490,288	4,841	4	27,880	4,018	5,837	12,912	798	12,825	22.8	8.5	18.3	48.8
Santa Monica	0.504	134,847	2,190	16	3,811	3,439	5,081	10,963	3,855	7,108	3.0	4.0	8.5	22.7
Total		1,702,404	21,884	136	86,182	27,489	48,573	87,583	23,688	63,895	46	39	83	227

Runoff Scenario II, 24-hour, 2.5-inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs					O & M Costs				
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.536	72,036	445	18	377	737	1,080	2,348	867	1,482	0.3	0.9	2.0	5.2
Upper Los Ang	0.407	519,839	2,538	44	4,821	3,780	5,800	12,086	2,324	9,762	4.0	4.9	10.5	28.0
Malibu	0.269	98,026	317	7	454	545	805	1,736	642	1,093	0.4	0.5	1.2	3.2
San Gabriel	0.363	371,403	1,806	37	2,611	2,314	3,419	7,379	1,807	5,572	2.1	2.8	6.1	16.2
Santa Ana	0.381	18,365	71	4	87	104	154	333	88	245	0.1	0.1	0.3	0.8
Santa Clara	0.265	490,288	1,557	4	6,500	1,327	1,950	4,231	385	3,846	5.3	2.8	8.1	18.3
Santa Monica	0.454	134,847	729	16	1,083	1,309	1,934	4,175	1,363	2,812	0.9	1.5	3.2	8.6
Total		1,702,404	7,263	130	16,913	18,124	24,982	52,298	7,538	44,760	13	14	29	78

Runoff Scenario III, 24-hour, 2.25-inch storm

Drainage Basin	Runoff Information			Number of Treatment Plants Required	Treatment Costs, Millions of Dollars									
					Capital Costs					O & M Costs				
	Runoff Coefficient	Drainage Area, Acres	Total Runoff, Million Gallons		Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2	Land Costs (Levels 1 & 2)	Level 3 without Land	Collection System	Level 1	Level 2 plus Level 1	Level 3 plus Levels 1 & 2
Dominguez	0.529	72,036	2,584	18	1,408	3,864	5,706	12,320	3,819	8,502	1.2	4.8	8.8	28.2
Upper Los Ang	0.475	519,839	14,750	44	44,114	20,826	30,771	66,410	14,787	47,813	38.2	28.8	57.1	152.3
Malibu	0.314	98,026	1,843	7	2,549	2,965	4,411	9,519	3,533	5,986	2.1	3.3	7.2	18.2
San Gabriel	0.423	371,403	8,318	37	19,841	12,573	18,578	40,065	10,888	29,185	18.3	17.0	36.5	87.3
Santa Ana	0.444	18,365	414	4	205	481	711	1,534	341	1,193	0.2	0.7	1.8	4.3
Santa Clara	0.309	490,288	9,039	4	72,062	7,779	11,494	24,806	1,538	23,270	59.1	18.6	35.6	95.1
Santa Monica	0.529	134,847	4,228	16	8,379	8,963	10,333	22,301	7,442	14,859	8.9	7.8	18.3	43.5
Total		1,702,404	42,178	136	148,558	56,391	82,807	178,985	48,837	128,848	122	79	164	434

III. ECONOMIC IMPACTS

III.1 Annual Economic Impacts

Building and operating a system of treatment plants of the scales described in Tables 2-4 involves large expenditures, many with stimulative secondary economic effects. Paying for these expenditures requires levels of taxation that often have opposite (and usually greater) depressive economic effects.

Because construction staging information is not known at this point of the discussion, we assume that capital costs are evenly spread over fifteen years of construction activity. Operations and maintenance costs start small and reach full scale in year 16. This is a twenty-year analysis that combines a Year 1-Year 15 construction and operations period; a Year 16-Year 20 full operations period and a Year 1-Year 20 financing period.

We assume households throughout Los Angeles county are taxed for twenty years to repay four-percent twenty-year bonds (including 10 percent of underwriting costs). The depressive economic effects of this financing scheme are calculated by reducing households' expenditures by the amount of the annual tax needed to service this debt.

Two economic models were used to study the full impacts of all of these activities (see Cho, et al 2000 and 2001 for a detailed discussion of our modeling approaches). The first is IMPLAN (<http://www.implan.com/products/products.htm>), a 528-sector input-output model describing the economy of the five-county Southern California region. Costs from Tables 2-4 were processed to generate specific changes in regional final demands. See Table A1 and accompanying description. Input-output models calculate all *indirect* and *induced* effects after subtracting leakages. In this context, *direct* effects include the construction of new facilities and the reductions

in household expenditures due to increased taxes. Direct effects are actual project expenditures from Tables 2-4. Not all of these expenditures are made in the five-county region and the model makes an allowance for direct expenditures that accrue to firms outside the region. These leakages are usually small quantities. Indirect effects consist of impacts on vendors from whom constructors purchase materials. Each such indirect impact creates additional but attenuating indirect impacts. A vendor who supplies more of his own product purchases additional inputs from his own vendors, and so forth. Labor is an especially important production input and *induced* impacts consist of the impacts specific to the labor sector.

The IMPLAN model calculates all indirect effects (activities induced by vendors that supply goods and services to firms directly involved) and all induced effects (the result of changes in household sector expenditures) associated with the direct effects from construction and financing new treatment facilities.

IMPLAN was applied 27 times for this study:

- once for each of nine combinations of cases and scenarios for an average prototypical year in the interval of Years 1-15 (stimulus from construction and limited operations and maintenance);
- once for each of nine combinations for a standard year in the period of Years 16-20 (stimulus from full operations and maintenance, but no construction)
- and once for each of nine combinations for a standard year in the full period in Years 1-20 (uniform household expenditure reductions associated with financing the project)

The first two sets of simulations, estimate the stimulative economic effects produced when households receive and spend cash payments for rendering any services associated with these projects. This includes payments to labor by any associated vendors. The exception is land acquisition costs. The household sector has to pay for these as part of the financing of overall bond obligations but these transactions are not a stimulus. Eminent domain ensures that activities that are displaced in Cases I and II receive a cash payment for the loss of their land but we assume that these households and firms use these funds to purchase a new location. Many of these incremental activities spill over outside the region and, in any event, are not thought to be a major stimulant to the real estate market.

Tables 5-7 summarize the 27 applications of the IMPLAN model. Each of the 27 panels shows results aggregated to the level of ten one-digit SIC sectors. The entries in the first column in each panel are in terms of jobs (person-years). The entries in the second column of each table summarize income (output) multiplier effects. In column(s) two, direct-plus-leakage sums are derived from Tables 2-4. (See worksheet in Table A1). All impacts on all ten sectors are shown as well as the sum of indirect and induced effects. The "multiplier" shown in each column is the ratio of direct effects to total effects. All output multipliers are in the range of 1.71 - 1.86.

Table 5. Economic Impacts of Construction, Land Acquisition, and Operating & Management Costs for years 1-15

Economic Scenario	Case 1: 45.2 MG Plant Scenario (450, 151, 531 Ponds)				Case 2: One Plant per Sub-Basin Scenario (185 Ponds)				Case 3: One Plant per City-Basin Interaction Scenario (130 Ponds)			
	Employment	Value Added	Local Income	Property Taxes	Employment	Value Added	Local Income	Property Taxes	Employment	Value Added	Local Income	Property Taxes
Scenario 1: 2044, 170'												
Construction	420	24,700	1,300.00	1,300.00	420	24,700	1,300.00	1,300.00	420	24,700	1,300.00	1,300.00
Land Acquisition	27,176	2,400.87	1,260.53	1,260.53	27,176	2,400.87	1,260.53	1,260.53	27,176	2,400.87	1,260.53	1,260.53
Operating & Management	3,300	400.00	200.00	200.00	3,300	400.00	200.00	200.00	3,300	400.00	200.00	200.00
Land Acquisition	2,200	2,200.00	1,100.00	1,100.00	2,200	2,200.00	1,100.00	1,100.00	2,200	2,200.00	1,100.00	1,100.00
Operating & Management	1,100	1,100.00	550.00	550.00	1,100	1,100.00	550.00	550.00	1,100	1,100.00	550.00	550.00
Scenario 2: 2044, 8.8'												
Construction	112	7.48	4.02	4.02	112	7.48	4.02	4.02	112	7.48	4.02	4.02
Land Acquisition	1,120	1,120.00	560.00	560.00	1,120	1,120.00	560.00	560.00	1,120	1,120.00	560.00	560.00
Operating & Management	1,120	1,120.00	560.00	560.00	1,120	1,120.00	560.00	560.00	1,120	1,120.00	560.00	560.00
Scenario 3: 2044, 1.28'												
Construction	28	1.87	1.00	1.00	28	1.87	1.00	1.00	28	1.87	1.00	1.00
Land Acquisition	280	280.00	140.00	140.00	280	280.00	140.00	140.00	280	280.00	140.00	140.00
Operating & Management	280	280.00	140.00	140.00	280	280.00	140.00	140.00	280	280.00	140.00	140.00

2044 and 2044+15 are the years of construction and operation respectively. Employment impacts are in person-years.

City and ZIP	CASE I - New			CASE II - New			CASE III - New			CASE IV - New			CASE V - New			CASE VI - New			CASE VII - New			CASE VIII - New			CASE IX - New			CASE X - New			CASE XI - New			CASE XII - New			CASE XIII - New			CASE XIV - New			CASE XV - New			CASE XVI - New			CASE XVII - New			CASE XVIII - New			CASE XIX - New			CASE XX - New			CASE XXI - New			CASE XXII - New			CASE XXIII - New			CASE XXIV - New			CASE XXV - New			CASE XXVI - New			CASE XXVII - New			CASE XXVIII - New			CASE XXIX - New			CASE XXX - New			CASE XXXI - New			CASE XXXII - New			CASE XXXIII - New			CASE XXXIV - New			CASE XXXV - New			CASE XXXVI - New			CASE XXXVII - New			CASE XXXVIII - New			CASE XXXIX - New			CASE XL - New			CASE XLI - New			CASE XLII - New			CASE XLIII - New			CASE XLIV - New			CASE XLV - New			CASE XLVI - New			CASE XLVII - New			CASE XLVIII - New			CASE XLIX - New			CASE L - New			CASE LI - New			CASE LII - New			CASE LIII - New			CASE LIV - New			CASE LV - New			CASE LVI - New			CASE LVII - New			CASE LVIII - New			CASE LIX - New			CASE LX - New			CASE LXI - New			CASE LXII - New			CASE LXIII - New			CASE LXIV - New			CASE LXV - New			CASE LXVI - New			CASE LXVII - New			CASE LXVIII - New			CASE LXIX - New			CASE LXX - New			CASE LXXI - New			CASE LXXII - New			CASE LXXIII - New			CASE LXXIV - New			CASE LXXV - New			CASE LXXVI - New			CASE LXXVII - New			CASE LXXVIII - New			CASE LXXIX - New			CASE LXXX - New			CASE LXXXI - New			CASE LXXXII - New			CASE LXXXIII - New			CASE LXXXIV - New			CASE LXXXV - New			CASE LXXXVI - New			CASE LXXXVII - New			CASE LXXXVIII - New			CASE LXXXIX - New			CASE LXXXX - New			CASE LXXXXI - New			CASE LXXXXII - New			CASE LXXXXIII - New			CASE LXXXXIV - New			CASE LXXXXV - New			CASE LXXXXVI - New			CASE LXXXXVII - New			CASE LXXXXVIII - New			CASE LXXXXIX - New			CASE LXXXXX - New			CASE LXXXXXI - New			CASE LXXXXXII - New			CASE LXXXXXIII - New			CASE LXXXXXIV - New			CASE LXXXXXV - New			CASE LXXXXXVI - New			CASE LXXXXXVII - New			CASE LXXXXXVIII - New			CASE LXXXXXIX - New			CASE LXXXXXX - New			CASE LXXXXXXI - New			CASE LXXXXXXII - New																																																																																																																																																																																																													
City and ZIP	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit	Summit

City and ZIP	Unemployment Rates										Amount of Unemployment Insurance										May 1976										June 1976										July 1976										August 1976										September 1976										October 1976										November 1976										December 1976										January 1977										February 1977										March 1977										April 1977										May 1977										June 1977										July 1977										August 1977										September 1977										October 1977										November 1977										December 1977										January 1978										February 1978										March 1978										April 1978										May 1978										June 1978										July 1978										August 1978										September 1978										October 1978										November 1978										December 1978										January 1979										February 1979										March 1979										April 1979										May 1979										June 1979										July 1979										August 1979										September 1979										October 1979										November 1979										December 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Table A13. Annual Direct Impacts (Year 18 -Year 20)

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Table A14 Annual Induced Impacts (Year 1, Year 15)

City and GDP			Baseline			Case 1			Case 2			Case 3			Case 4			Case 5			Case 6			Case 7			Case 8			Case 9			Case 10			Case 11			Case 12			Case 13			Case 14			Case 15			Case 16			Case 17			Case 18			Case 19			Case 20			Case 21			Case 22			Case 23			Case 24			Case 25			Case 26			Case 27			Case 28			Case 29			Case 30			Case 31			Case 32			Case 33			Case 34			Case 35			Case 36			Case 37			Case 38			Case 39			Case 40			Case 41			Case 42			Case 43			Case 44			Case 45			Case 46			Case 47			Case 48			Case 49			Case 50			Case 51			Case 52			Case 53			Case 54			Case 55			Case 56			Case 57			Case 58			Case 59			Case 60			Case 61			Case 62			Case 63			Case 64			Case 65			Case 66			Case 67			Case 68			Case 69			Case 70			Case 71			Case 72			Case 73			Case 74			Case 75			Case 76			Case 77			Case 78			Case 79			Case 80			Case 81			Case 82			Case 83			Case 84			Case 85			Case 86			Case 87			Case 88			Case 89			Case 90			Case 91			Case 92			Case 93			Case 94			Case 95			Case 96			Case 97			Case 98			Case 99			Case 100			Case 101			Case 102			Case 103			Case 104			Case 105			Case 106			Case 107			Case 108			Case 109			Case 110			Case 111			Case 112			Case 113			Case 114			Case 115			Case 116			Case 117			Case 118			Case 119			Case 120			Case 121			Case 122			Case 123			Case 124			Case 125			Case 126			Case 127			Case 128			Case 129			Case 130			Case 131			Case 132			Case 133			Case 134			Case 135			Case 136			Case 137			Case 138			Case 139			Case 140			Case 141			Case 142			Case 143			Case 144			Case 145			Case 146			Case 147			Case 148			Case 149			Case 150			Case 151			Case 152			Case 153			Case 154			Case 155			Case 156			Case 157			Case 158			Case 159			Case 160			Case 161			Case 162			Case 163			Case 164			Case 165			Case 166			Case 167			Case 168			Case 169			Case 170			Case 171			Case 172			Case 173			Case 174			Case 175			Case 176			Case 177			Case 178			Case 179			Case 180			Case 181			Case 182			Case 183			Case 184			Case 185			Case 186			Case 187			Case 188			Case 189			Case 190			Case 191			Case 192			Case 193			Case 194			Case 195			Case 196			Case 197			Case 198			Case 199			Case 200			Case 201			Case 202			Case 203			Case 204			Case 205			Case 206			Case 207			Case 208			Case 209			Case 210			Case 211			Case 212			Case 213			Case 214			Case 215			Case 216			Case 217			Case 218			Case 219			Case 220			Case 221			Case 222			Case 223			Case 224			Case 225			Case 226			Case 227			Case 228			Case 229			Case 230			Case 231			Case 232			Case 233			Case 234			Case 235			Case 236			Case 237			Case 238			Case 239			Case 240			Case 241			Case 242			Case 243			Case 244			Case 245			Case 246			Case 247			Case 248			Case 249			Case 250			Case 251			Case 252			Case 253			Case 254			Case 255			Case 256			Case 257			Case 258			Case 259			Case 260			Case 261			Case 262			Case 263			Case 264			Case 265			Case 266			Case 267			Case 268			Case 269			Case 270			Case 271			Case 272			Case 273			Case 274			Case 275			Case 276			Case 277			Case 278			Case 279			Case 280			Case 281			Case 282			Case 283			Case 284			Case 285			Case 286			Case 287			Case 288			Case 289			Case 290			Case 291			Case 292			Case 293			Case 294			Case 295			Case 296			Case 297			Case 298			Case 299			Case 300			Case 301			Case 302			Case 303			Case 304			Case 305			Case 306			Case 307			Case 308			Case 309			Case 310			Case 311			Case 312			Case 313			Case 314			Case 315			Case 316			Case 317			Case 318			Case 319			Case 320			Case 321			Case 322			Case 323			Case 324			Case 325			Case 326			Case 327			Case 328			Case 329			Case 330			Case 331			Case 332			Case 333			Case 334			Case 335			Case 336			Case 337			Case 338			Case 339			Case 340			Case 341			Case 342			Case 343			Case 344		
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Table A15. Annual Induced Imports (Year 10 -Year 20)

Table A1E. Annual Induced Impacts (Year 18-Year 20)

City and ZIP			CASE I			CASE II			CASE III			CASE IV			CASE V			CASE VI			CASE VII			CASE VIII			CASE IX			CASE X			CASE XI			CASE XII			CASE XIII			CASE XIV			CASE XV			CASE XVI			CASE XVII			CASE XVIII			CASE XIX			CASE XX			CASE XXI			CASE XXII			CASE XXIII			CASE XXIV			CASE XXV			CASE XXVI			CASE XXVII			CASE XXVIII			CASE XXIX			CASE XXX			CASE XXXI			CASE XXXII			CASE XXXIII			CASE XXXIV			CASE XXXV			CASE XXXVI			CASE XXXVII			CASE XXXVIII			CASE XXXIX			CASE XL			CASE XLI			CASE XLII			CASE XLIII			CASE XLIV			CASE XLV			CASE XLVI			CASE XLVII			CASE XLVIII			CASE XLIX			CASE L			CASE LI			CASE LII			CASE LIII			CASE LIV			CASE LV			CASE LVI			CASE LVII			CASE LVIII			CASE LVIX			CASE LX			CASE LXI			CASE LXII			CASE LXIII			CASE LXIV			CASE LXV			CASE LXVI			CASE LXVII			CASE LXVIII			CASE LXIX			CASE LXX			CASE LXXI			CASE LXXII			CASE LXXIII			CASE LXXIV			CASE LXXV			CASE LXXVI			CASE LXXVII			CASE LXXVIII			CASE LXXIX			CASE LXXX			CASE LXXXI			CASE LXXXII			CASE LXXXIII			CASE LXXXIV			CASE LXXXV			CASE LXXXVI			CASE LXXXVII			CASE LXXXVIII			CASE LXXXIX			CASE LXXXX			CASE LXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE LXXXXIX			CASE LXXXXX			CASE LXXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE LXXXXIX			CASE LXXXXX			CASE LXXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE LXXXXIX			CASE LXXXXX			CASE LXXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE LXXXXIX			CASE LXXXXX			CASE LXXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE LXXXXIX			CASE LXXXXX			CASE LXXXXXI			CASE LXXXXII			CASE LXXXXIII			CASE LXXXXIV			CASE LXXXXV			CASE LXXXXVI			CASE LXXXXVII			CASE LXXXXVIII			CASE 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Table A16. Annual Direct Impacts for years 1 - 15 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	34.4	58.6	54.7	77.2	32.5
		Scenario II	10.2	21.0	31.2	31.3	40.7
		Scenario III	61.6	69.4	86.5	123.8	75.2
	CASE II	Scenario I	0.0	0.0	64.7	23.5	0.0
		Scenario II	0.0	0.0	18.4	9.5	0.0
		Scenario III	0.0	0.0	125.5	47.2	0.0
	CASE III	Scenario I	35.7	18.3	15.6	50.3	53.5
		Scenario II	17.1	9.5	8.0	26.3	20.4
		Scenario III	72.9	39.0	37.0	108.7	109.7
Impacts of Household Expenditure Reduction	CASE I	Scenario I	60.9	76.1	146.7	64.1	185.4
		Scenario II	22.2	27.7	53.4	23.4	67.5
		Scenario III	114.5	142.9	275.5	120.5	348.1
	CASE II	Scenario I	81.0	101.1	194.9	85.2	246.3
		Scenario II	26.2	32.7	63.0	27.5	79.5
		Scenario III	169.4	211.6	407.9	178.4	515.4
	CASE III	Scenario I	87.6	109.4	210.9	92.2	266.5
		Scenario II	28.7	35.8	69.0	30.2	87.2
		Scenario III	192.9	240.9	464.4	203.1	586.8
Net Impacts	CASE I	Scenario I	-26.5	-17.5	-92.0	13.1	-152.9
		Scenario II	-12.0	-6.7	-22.3	7.9	-26.8
		Scenario III	-52.8	-73.5	-189.0	3.3	-272.9
	CASE II	Scenario I	-81.0	-101.1	-130.3	-61.8	-246.3
		Scenario II	-26.2	-32.7	-44.5	-18.0	-79.5
		Scenario III	-169.4	-211.6	-282.4	-131.1	-515.4
	CASE III	Scenario I	-51.9	-91.1	-195.3	-41.9	-213.0
		Scenario II	-11.6	-26.3	-61.0	-3.9	-66.8
		Scenario III	-120.0	-201.9	-427.4	-94.3	-477.2

Table A17. Annual Direct Impacts for years 16 - 20 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	5.7	10.0	9.2	12.7	5.6
		Scenario II	1.6	3.5	5.0	5.0	6.7
		Scenario III	10.4	12.0	14.7	20.7	13.1
	CASE II	Scenario I	0.0	0.0	11.7	4.4	0.0
		Scenario II	0.0	0.0	3.4	1.7	0.0
		Scenario III	0.0	0.0	22.7	8.8	0.0
	CASE III	Scenario I	6.0	3.1	2.8	8.2	9.3
		Scenario II	2.7	1.5	1.3	4.0	3.3
		Scenario III	12.1	6.5	6.3	17.5	18.4
Impacts of Household Expenditure Reduction	CASE I	Scenario I	60.9	76.1	146.7	64.1	185.4
		Scenario II	22.2	27.7	53.4	23.4	67.5
		Scenario III	114.5	142.9	275.5	120.5	348.1
	CASE II	Scenario I	81.0	101.1	194.9	85.2	246.3
		Scenario II	26.2	32.7	63.0	27.5	79.5
		Scenario III	169.4	211.6	407.9	178.4	515.4
	CASE III	Scenario I	87.6	109.4	210.9	92.2	266.5
		Scenario II	28.7	35.8	69.0	30.2	87.2
		Scenario III	192.9	240.9	464.4	203.1	586.8
Net Impacts	CASE I	Scenario I	-55.2	-66.1	-137.5	-51.5	-179.8
		Scenario II	-20.6	-24.2	-48.4	-18.4	-60.8
		Scenario III	-104.0	-130.9	-260.8	-99.8	-335.0
	CASE II	Scenario I	-81.0	-101.1	-183.3	-80.9	-246.3
		Scenario II	-26.2	-32.7	-59.6	-25.8	-79.5
		Scenario III	-169.4	-211.6	-385.2	-169.5	-515.4
	CASE III	Scenario I	-81.6	-106.3	-208.1	-84.0	-257.3
		Scenario II	-26.0	-34.3	-67.7	-26.1	-83.8
		Scenario III	-180.8	-234.4	-458.1	-185.6	-568.4

Table A18. Annual Indirect Impacts for years 1 - 15 (El Monte, Inglewood, Pasadena, Pomona, Torrance)
(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	8.5	8.3	29.9	8.8	25.7
		Scenario II	3.2	3.1	11.1	3.3	9.6
		Scenario III	15.8	15.4	55.6	16.4	47.7
	CASE II	Scenario I	12.1	11.8	42.6	12.6	36.7
		Scenario II	3.9	3.8	13.7	4.0	11.8
		Scenario III	25.7	25.1	90.4	26.8	77.8
	CASE III	Scenario I	13.4	13.1	47.1	13.9	40.6
		Scenario II	4.4	4.3	15.3	4.5	13.2
		Scenario III	30.1	29.4	105.7	31.3	91.1
Impacts of Household Expenditure Reduction	CASE I	Scenario I	9.9	9.8	31.7	11.3	30.3
		Scenario II	3.6	3.6	11.6	4.1	11.0
		Scenario III	18.7	18.3	59.6	21.3	56.8
	CASE II	Scenario I	13.2	13.0	42.2	15.1	40.2
		Scenario II	4.3	4.2	13.6	4.9	13.0
		Scenario III	27.7	27.2	88.2	31.5	84.2
	CASE III	Scenario I	14.3	14.0	45.6	16.3	43.5
		Scenario II	4.7	4.6	14.9	5.3	14.2
		Scenario III	31.5	30.9	100.5	35.9	95.8
Net Impacts	CASE I	Scenario I	-1.5	-1.5	-1.9	-2.5	-4.6
		Scenario II	-0.5	-0.5	-0.4	-0.8	-1.5
		Scenario III	-2.9	-3.0	-4.0	-4.9	-9.1
	CASE II	Scenario I	-1.1	-1.1	0.4	-2.5	-3.6
		Scenario II	-0.4	-0.4	0.0	-0.8	-1.2
		Scenario III	-1.9	-2.0	2.1	-4.8	-6.3
	CASE III	Scenario I	-0.9	-1.0	1.4	-2.4	-3.0
		Scenario II	-0.3	-0.3	0.4	-0.8	-1.0
		Scenario III	-1.3	-1.5	5.2	-4.6	-4.7

Table A19. Annual Indirect Impacts for years 16 - 20 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	0.9	0.9	4.4	1.1	3.2
		Scenario II	0.3	0.3	1.6	0.4	1.1
		Scenario III	1.8	1.8	8.4	2.1	6.0
	CASE II	Scenario I	1.4	1.3	6.2	1.6	4.5
		Scenario II	0.4	0.4	2.0	0.5	1.5
		Scenario III	2.8	2.8	12.8	3.3	9.3
	CASE III	Scenario I	1.2	1.2	6.0	1.5	4.3
		Scenario II	0.4	0.4	2.0	0.5	1.4
		Scenario III	2.7	2.7	12.9	3.2	9.3
Impacts of Household Expenditure Reduction	CASE I	Scenario I	9.9	9.8	31.7	11.3	30.3
		Scenario II	3.6	3.6	11.6	4.1	11.0
		Scenario III	18.7	18.3	59.6	21.3	56.8
	CASE II	Scenario I	13.2	13.0	42.2	15.1	40.2
		Scenario II	4.3	4.2	13.6	4.9	13.0
		Scenario III	27.7	27.2	88.2	31.5	84.2
	CASE III	Scenario I	14.3	14.0	45.6	16.3	43.5
		Scenario II	4.7	4.6	14.9	5.3	14.2
		Scenario III	31.5	30.9	100.5	35.9	95.8
Net Impacts	CASE I	Scenario I	-9.0	-8.8	-27.3	-10.2	-27.1
		Scenario II	-3.3	-3.2	-10.0	-3.7	-9.9
		Scenario III	-16.9	-16.6	-51.3	-19.2	-50.8
	CASE II	Scenario I	-11.9	-11.6	-36.0	-13.5	-35.7
		Scenario II	-3.8	-3.7	-11.6	-4.3	-11.5
		Scenario III	-24.9	-24.4	-75.4	-28.3	-74.9
	CASE III	Scenario I	-13.0	-12.8	-39.7	-14.8	-39.2
		Scenario II	-4.3	-4.2	-13.0	-4.8	-12.8
		Scenario III	-28.8	-28.2	-87.5	-32.7	-86.5

Table A20. Annual Induced Impacts for years 1 - 15 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	12.5	14.7	27.9	15.7	33.0
		Scenario II	4.6	5.5	10.4	5.8	12.3
		Scenario III	23.2	27.4	51.9	29.1	61.4
	CASE II	Scenario I	17.8	21.0	39.8	22.3	47.1
		Scenario II	5.7	6.7	12.8	7.2	15.1
		Scenario III	37.8	44.5	84.5	47.4	99.9
	CASE III	Scenario I	19.7	23.2	44.0	24.7	52.0
		Scenario II	6.4	7.6	14.3	8.0	17.0
		Scenario III	44.2	52.1	98.9	55.5	116.8
Impacts of Household Expenditure Reduction	CASE I	Scenario I	16.3	19.2	36.5	20.5	43.1
		Scenario II	5.9	7.0	13.3	7.5	15.7
		Scenario III	30.6	36.1	68.5	38.4	80.9
	CASE II	Scenario I	21.7	25.5	48.5	27.2	57.3
		Scenario II	7.0	8.2	15.7	8.8	18.5
		Scenario III	45.3	53.5	101.4	56.9	119.8
	CASE III	Scenario I	23.4	27.6	52.4	29.4	62.0
		Scenario II	7.7	9.0	17.2	9.6	20.3
		Scenario III	51.6	60.9	115.5	64.8	136.4
Net Impacts	CASE I	Scenario I	-3.8	-4.5	-8.5	-4.8	-10.1
		Scenario II	-1.3	-1.5	-2.9	-1.6	-3.4
		Scenario III	-7.4	-8.7	-16.6	-9.3	-19.6
	CASE II	Scenario I	-3.9	-4.6	-8.6	-4.8	-10.2
		Scenario II	-1.3	-1.5	-2.9	-1.6	-3.4
		Scenario III	-7.6	-8.9	-16.9	-9.5	-20.0
	CASE III	Scenario I	-3.8	-4.4	-8.4	-4.7	-9.9
		Scenario II	-1.3	-1.5	-2.8	-1.6	-3.3
		Scenario III	-7.4	-8.7	-16.6	-9.3	-19.6

Table A21. Annual Induced Impacts for years 16 - 20 (El Monte, Inglewood, Pasadena, Pomona, Torrance)

(Millions of \$ 1999)

Scenario			El Monte	Inglewood	Pasadena	Pomona	Torrance
Stimulus Effect	CASE I	Scenario I	1.8	2.1	4.0	2.3	4.7
		Scenario II	0.6	0.8	1.4	0.8	1.7
		Scenario III	3.4	4.0	7.6	4.3	9.0
	CASE II	Scenario I	2.5	3.0	5.6	3.2	6.7
		Scenario II	0.8	1.0	1.8	1.0	2.2
		Scenario III	5.2	6.1	11.6	6.5	13.7
	CASE III	Scenario I	2.4	2.9	5.4	3.1	6.4
		Scenario II	0.8	0.9	1.8	1.0	2.1
		Scenario III	5.3	6.2	11.8	6.6	13.9
Impacts of Household Expenditure Reduction	CASE I	Scenario I	16.3	19.2	36.5	20.5	43.1
		Scenario II	5.9	7.0	13.3	7.5	15.7
		Scenario III	30.6	36.1	68.5	38.4	80.9
	CASE II	Scenario I	21.7	25.5	48.5	27.2	57.3
		Scenario II	7.0	8.2	15.7	8.8	18.5
		Scenario III	45.3	53.5	101.4	56.9	119.8
	CASE III	Scenario I	23.4	27.6	52.4	29.4	62.0
		Scenario II	7.7	9.0	17.2	9.6	20.3
		Scenario III	51.6	60.9	115.5	64.8	136.4
Net Impacts	CASE I	Scenario I	-14.5	-17.1	-32.5	-18.2	-38.3
		Scenario II	-5.3	-6.2	-11.8	-6.6	-14.0
		Scenario III	-27.2	-32.1	-60.9	-34.2	-72.0
	CASE II	Scenario I	-19.1	-22.6	-42.8	-24.0	-50.6
		Scenario II	-6.2	-7.3	-13.8	-7.7	-16.3
		Scenario III	-40.1	-47.3	-89.8	-50.3	-106.1
	CASE III	Scenario I	-21.0	-24.8	-47.0	-26.4	-55.5
		Scenario II	-6.9	-8.1	-15.4	-8.6	-18.2
		Scenario III	-46.3	-54.6	-103.7	-58.1	-122.5

Table A22. Present Value of Net Impact Impacts by County by Scenario

(Millions of \$ 1999)

County		CASE I			CASE II			CASE III		
		Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Los Angeles County	Arroyo Verdugo	-3,985.5	-1,161.4	-8,592.5	-7,005.8	-2,288.5	-14,831.7	-8,369.9	-2,686.0	-18,436.2
	City of Los Angeles	-19,434.4	-7,841.9	-37,606.0	-22,189.1	-7,366.3	-46,321.3	-29,858.2	-9,741.0	-65,073.6
	North Los Angeles County	101.7	271.8	7.4	7,472.9	1,943.9	18,140.3	14,006.5	3,325.3	34,364.4
	San Gabriel Valley	-4,560.4	-976.4	-7,843.7	-6,709.4	-2,075.9	-13,559.9	-10,964.0	-2,943.1	-24,751.8
	Southeast Los Angeles County	-3,753.3	-1,990.7	-7,286.0	-680.7	-201.6	-1,396.6	3,657.2	1,368.0	7,973.1
	South Bay	-6,136.4	-2,333.3	-11,327.7	-9,019.6	-2,893.7	-19,066.6	-9,991.2	-2,966.3	-22,668.9
	Westside Cities	-4,470.8	-1,690.0	-8,929.1	-6,631.4	-2,141.5	-13,875.3	-7,167.8	-2,343.4	-15,781.0
	Other Los Angeles County	4,136.3	2,233.4	9,143.1	-915.4	125.0	-2,742.7	464.1	138.3	1,429.6
	Los Angeles County Total	-38,103.0	-13,488.4	-72,434.5	-45,678.4	-14,898.6	-93,653.9	-48,223.4	-15,848.1	-102,944.6
Orange County		-1,793.7	-653.5	-3,369.7	-2,385.2	-770.2	-4,990.9	-2,581.0	-844.2	-5,682.5
Riverside County		-107.1	-39.0	-201.2	-142.3	-46.0	-297.8	-154.0	-50.4	-339.1
San Bernardino County		-900.6	-328.1	-1,691.6	-1,196.9	-386.5	-2,504.3	-1,295.0	-423.5	-2,851.2
Venture County		-403.7	-145.0	-759.6	-540.4	-174.0	-1,131.6	-587.8	-192.2	-1,294.5
Total		-41,308.1	-14,654.0	-78,456.5	-49,943.1	-16,275.1	-102,578.6	-52,841.3	-17,358.4	-113,111.9

Table A23. Present Value of Indirect Impacts by County by Scenario

(Millions of \$ 1999)

County		CASE I			CASE II			CASE III		
		Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Los Angeles County	Arroyo Verdugo	-374.9	-130.0	-718.6	-418.2	-137.5	-842.8	-430.4	-142.3	-893.2
	City of Los Angeles	-2,392.0	-830.5	-4,582.1	-2,677.6	-879.9	-5,403.8	-2,764.8	-913.9	-5,749.9
	North Los Angeles County	-94.5	-33.0	-180.8	-107.3	-35.2	-217.4	-111.5	-36.8	-233.4
	San Gabriel Valley	-662.8	-231.8	-1,266.0	-762.1	-249.7	-1,547.6	-793.5	-261.8	-1,667.2
	Southeast Los Angeles County	-880.3	-306.3	-1,684.9	-994.2	-326.4	-2,010.4	-1,028.8	-339.9	-2,146.5
	South Bay	-434.1	-149.6	-834.0	-473.1	-156.0	-948.3	-483.4	-160.1	-993.9
	Westside Cities	-247.2	-84.6	-476.3	-262.4	-86.8	-522.4	-265.4	-88.1	-539.2
	Other Los Angeles County	-446.8	-155.8	-854.5	-507.9	-166.6	-1,028.8	-527.2	-174.1	-1,103.2
	Los Angeles County Total	-5,532.7	-1,921.6	-10,597.3	-6,202.7	-2,038.2	-12,521.4	-6,405.0	-2,117.0	-13,326.5
Orange County		-1,953.8	-678.4	-3,742.6	-2,189.3	-719.5	-4,418.6	-2,259.1	-746.8	-4,698.8
Riverside County		-498.8	-173.7	-954.3	-563.3	-184.9	-1,140.0	-585.2	-193.3	-1,222.5
San Bernardino County		-619.6	-216.2	-1,184.4	-705.5	-231.3	-1,430.5	-734.6	-242.5	-1,539.4
Ventura County		-443.1	-154.6	-847.2	-505.3	-165.7	-1,024.1	-524.6	-173.2	-1,098.6
Total		-9,047.9	-3,144.6	-17,325.8	-10,166.1	-3,339.6	-20,534.7	-10,508.5	-3,472.7	-21,885.9

Table A24. Present Value of Net Imputed Impacts by County by Scenario

(Millions of \$ 1999)

County		CASE I			CASE II			CASE III		
		Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Los Angeles County	Arroyo Verdugo	-553.2	-193.5	-1,056.8	-637.3	-208.9	-1,294.0	-662.0	-218.5	-1,390.8
	City of Los Angeles	-3,375.2	-1,180.2	-6,447.4	-3,888.3	-1,274.3	-7,894.7	-4,038.9	-1,332.8	-8,484.9
	North Los Angeles County	-208.8	-73.0	-398.8	-240.5	-78.8	-488.3	-249.8	-82.4	-524.8
	San Gabriel Valley	-983.6	-343.9	-1,879.0	-1,133.2	-371.4	-2,300.7	-1,177.0	-388.4	-2,472.8
	Southeast Los Angeles County	-1,259.8	-440.5	-2,406.6	-1,451.3	-475.6	-2,946.8	-1,507.5	-497.5	-3,167.1
	South Bay	-733.7	-256.5	-1,401.5	-845.2	-277.0	-1,716.1	-877.9	-289.7	-1,844.4
	Westside Cities	-451.5	-157.9	-862.5	-520.2	-170.5	-1,056.2	-540.3	-178.3	-1,135.1
	Other Los Angeles County	-606.2	-212.0	-1,157.9	-698.3	-228.9	-1,417.8	-725.4	-239.4	-1,523.9
	Los Angeles County Total	-8,172.1	-2,857.5	-15,610.5	-9,414.2	-3,085.2	-19,114.6	-9,779.0	-3,226.9	-20,543.7
Orange County		-2,689.3	-940.4	-5,137.2	-3,098.1	-1,015.3	-6,290.3	-3,218.1	-1,061.9	-6,760.6
Riverside County		-1,098.7	-384.2	-2,098.8	-1,265.7	-414.8	-2,569.9	-1,314.8	-433.8	-2,762.0
San Bernardino County		-1,244.5	-435.2	-2,377.2	-1,433.6	-469.8	-2,910.8	-1,489.2	-491.4	-3,128.5
Ventura County		-665.6	-232.7	-1,271.5	-766.8	-251.3	-1,556.9	-796.5	-262.8	-1,673.3
Total		-13,870.2	-4,850.0	-26,495.2	-15,978.5	-5,236.5	-32,442.5	-16,597.5	-5,476.8	-34,868.1

Table A25. Present Value of Net Social Impacts by Place by Scenario

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Action	9.1	3.3	14.2	-0.4	-0.1	-0.8	-0.7	-0.2	-1.8
Agoura Hills	39.2	-34.2	59.2	-100.6	-20.2	-232.1	-127.6	-30.6	-311.0
Alhambra	-552.4	-314.6	-1,109.0	-1,133.1	-366.6	-2,362.1	-1,121.2	-348.7	-2,495.9
Alondra Park	-46.7	98.6	-87.9	-61.0	-19.7	-127.3	212.3	121.7	468.4
Altadena	-242.7	-88.2	-264.3	-318.2	-102.9	-663.8	-342.9	-112.3	-751.7
Arcadia	-764.7	-75.2	-1,239.3	-1,137.2	-367.7	-2,371.7	-976.2	-284.6	-2,182.9
Artesia	-317.1	-116.2	-497.7	-419.2	-135.6	-874.4	-451.1	-147.6	-988.7
Avocado Heights	56.0	-60.6	-27.2	-216.9	-70.2	-451.7	-233.0	-76.2	-509.4
Azusa	-38.8	-140.8	-608.6	4,669.1	1,419.9	10,283.2	-546.8	-179.0	-1,198.2
Baldwin Park	14.7	88.3	-449.1	-536.1	-173.3	-1,118.3	-562.2	-181.0	-1,234.7
Bell	-204.1	-113.3	-215.6	-407.8	-131.9	-850.3	-263.5	-52.1	-627.0
Bellflower	-176.8	20.6	-816.9	-783.9	-253.5	-1,635.2	-843.2	-275.8	-1,848.0
Bell Gardens	-153.8	-93.1	-276.2	-336.0	-108.7	-700.9	-292.3	-82.2	-677.6
Beverly Hills	-1,335.7	-483.3	-2,404.7	-1,736.2	-581.9	-3,617.0	-1,863.6	-609.7	-4,076.8
Bradbury	-2.0	1.6	182.3	-17.3	-5.6	-36.0	-18.6	-6.1	-40.8
Burbank	-805.7	-557.0	-2,380.7	-2,011.0	-650.6	-4,191.8	-1,758.0	-557.8	-3,881.5
Calabasas	245.0	84.9	368.7	0.3	12.4	-32.3	43.2	36.6	58.8
Carson	-797.8	-350.5	-1,076.0	-1,256.0	-406.6	-2,615.4	-760.5	-233.1	-1,781.5
Cerritos	-217.0	-33.3	-479.9	-977.4	-316.2	-2,037.2	-480.7	-49.3	-1,014.0
Chanter Oak	8.6	-30.1	-7.6	-108.8	-35.2	-227.1	-117.3	-38.4	-257.3
Citrus	-12.2	-15.8	61.0	-60.5	-19.5	-126.2	-61.9	-20.1	-135.8
Claremont	-58.6	-41.8	39.4	-365.1	-97.1	-802.8	-517.5	-169.4	-1,133.2
Commerce	-376.5	-53.7	-774.2	-622.3	-201.6	-1,294.0	-516.0	-139.9	-1,129.0
Compton	-166.3	-237.0	-484.1	-854.7	-276.5	-1,781.6	-818.3	-248.1	-1,848.0
Covina	-132.1	-28.2	-890.2	-937.0	-303.0	-1,954.7	-444.1	-109.4	-994.2
Cudahy	-130.9	-48.5	-146.0	-175.2	-56.7	-365.7	-185.9	-60.3	-408.5
Culver City	-1,015.8	-414.9	-2,151.1	-1,496.8	-484.1	-3,121.4	-1,612.4	-527.9	-3,532.4
Del Aire	-114.1	-41.2	-214.7	-148.8	-48.1	-310.1	-160.2	-52.5	-350.7
Desert View Highlands	-14.8	-5.4	-27.9	-19.6	-6.3	-40.9	-21.2	-6.9	-46.5
Diamond Bar	-229.4	-111.4	-226.7	-334.6	-96.0	-700.7	-289.8	-78.9	-647.8
Downey	-351.0	-122.4	-929.7	-1,290.6	-417.5	-2,690.1	-1,193.9	-353.2	-2,711.7
Duarte	74.9	144.6	-6.5	-154.5	-52.1	-309.0	-237.1	-64.4	-561.4
East Compton	-22.5	-8.1	22.7	-29.3	-9.5	-61.2	-30.0	-9.5	-66.6
East La Mirada	-42.0	-15.2	-79.0	-54.9	-17.8	-114.5	-59.2	-19.4	-129.6
East Los Angeles	-219.1	126.5	-457.7	-818.3	-264.9	-1,704.6	-725.1	-208.1	-1,594.1
East Pasadena	-242.7	-88.4	-457.7	-319.6	-103.3	-667.2	-342.6	-112.1	-751.8
East San Gabriel	-149.4	33.2	-179.3	-196.3	-63.5	-409.8	624.7	224.2	1,287.0
El Monte	-548.4	-225.1	-1,069.0	-1,232.2	-398.7	-2,568.8	-915.0	-237.6	-2,063.9
El Segundo	-233.3	-129.1	-676.6	2,129.1	705.9	4,269.4	-387.6	-108.2	-892.5
Florence-Graham	93.6	41.2	88.2	-285.6	-92.4	-595.4	-306.4	-100.1	-671.6
Gardena	-427.4	-278.3	-1,337.9	-1,003.6	-324.6	-2,093.3	-962.6	-292.8	-2,120.9
Glendale	-2,171.5	-534.9	-4,256.8	-3,159.8	-1,020.3	-6,646.5	-3,968.6	-1,299.0	-8,694.9
Glendora	79.2	27.9	-261.5	-395.5	-133.4	-791.6	-777.0	-254.4	-1,703.0
Hacienda Heights	69.2	-127.4	-69.7	-459.5	-148.6	-958.4	-495.2	-162.1	-1,085.0
Hawaiian Gardens	-78.7	-4.5	-1.7	-103.3	-33.4	-215.3	-110.5	-36.0	-242.1
Hawthorne	-685.0	-251.5	-935.0	-954.1	-308.6	-1,990.2	-973.7	-308.6	-2,124.3
Hermosa Beach	-377.4	-137.1	-710.4	-495.3	-160.2	-1,033.6	-408.2	-110.9	-941.9
Hidden Hills	49.3	-5.0	33.6	-19.5	-6.3	-40.5	-4.5	1.6	-18.2
Huntington Park	-443.0	-199.0	-700.1	-718.0	-232.2	-1,497.8	-773.7	-253.3	-1,695.6
Industry	-839.5	-338.1	-1,412.8	-1,112.9	-339.0	-2,300.8	-937.6	-259.8	-2,088.1
Inglewood	-489.0	-178.9	-1,391.6	-1,522.0	-492.3	-3,174.1	-1,427.9	-427.4	-3,142.7
Irwindale	-83.5	-26.4	-53.4	11.0	23.5	-33.7	141.8	96.7	276.4
La Canada Flintridge	-112.2	174.0	-115.8	-307.2	-99.4	-641.1	-332.2	-108.7	-728.0
La Crescenta-Montrose	5.6	144.1	-253.7	-231.6	-74.9	-483.3	-249.7	-81.7	-547.5
Ladera Heights	-63.9	-23.2	-10.3	-83.3	-26.9	-173.5	-89.6	-29.3	-196.1
La Habra Heights	69.2	96.0	21.7	151.6	64.2	319.8	-58.3	-17.6	-131.9
Lake Los Angeles	-7.9	-2.9	-14.8	-10.4	-3.3	-21.6	-11.2	-3.7	-24.5
Lakewood	-375.9	-233.8	-630.8	-1,210.7	-391.5	-2,526.4	-1,026.4	-282.3	-2,319.4
La Mirada	-98.8	-110.3	39.3	-395.1	-127.9	-822.6	-424.7	-139.1	-928.2
Lancaster	-1,492.5	-541.7	-2,804.8	-1,966.6	-635.7	-4,107.2	-2,122.7	-694.7	-4,660.6
La Puente	-27.4	27.0	78.4	-317.6	-102.7	-662.7	-224.9	-52.8	-548.3
La Verne	-240.6	98.6	-14.5	179.4	85.9	346.7	-419.8	-137.2	-920.6
Lawndale	-279.5	-100.0	-211.5	-366.2	-118.4	-764.0	-321.2	-91.6	-735.2

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lennox	-29.4	54.4	-5.3	-176.5	-57.1	-368.2	-190.2	-62.3	-417.0
Littlerock	-2.2	-0.8	-4.1	-2.9	-0.9	-6.0	-3.1	-1.0	-6.8
Lomita	-269.5	-98.2	-403.4	-355.0	-114.8	-741.0	-382.0	-124.9	-838.2
Long Beach	-834.1	-523.1	-1,069.3	3,880.1	1,237.5	8,230.3	13,536.3	4,132.2	30,550.6
Los Angeles	-25,196.4	-9,800.6	-48,507.2	-29,837.7	-9,958.4	-61,552.8	-36,972.9	-12,141.9	-79,875.8
Lynwood	12.7	7.5	-379.9	-407.0	-131.7	-848.8	-435.4	-142.0	-955.6
Malibu	41.1	-8.4	106.4	497.4	240.7	868.2	751.9	273.1	1,577.6
Manhattan Beach	-427.1	-246.9	-735.0	-881.7	-285.0	-1,840.5	-788.3	-227.3	-1,789.0
Marina del Rey	-253.2	-91.7	-476.0	-329.1	-106.5	-686.1	-355.6	-116.4	-778.7
Mayflower Village	-22.2	-8.1	28.2	-29.1	-9.4	-60.8	-7.8	2.1	-32.6
Maywood	-61.4	-60.3	-119.5	-216.8	-70.2	-451.9	-136.6	-25.2	-361.6
Monrovia	-527.5	-187.9	-555.4	-536.0	-140.5	-1,065.5	-747.5	-240.8	-1,649.4
Montebello	-440.7	-274.9	-1,216.7	-949.3	-306.9	-1,980.7	-1,067.0	-349.1	-2,338.0
Monterey Park	-580.3	30.3	-258.5	-758.5	-245.4	-1,581.3	-663.0	-188.0	-1,459.9
North El Monte	-19.1	-6.9	0.6	-24.9	-8.0	-51.8	63.7	29.8	134.7
Norwalk	-237.5	-4.1	-116.0	-868.7	-281.0	-1,811.6	-930.4	-304.4	-2,038.7
Palmdale	-1,117.3	-404.5	-2,111.7	-1,795.5	-578.6	-3,752.2	-1,947.5	-636.0	-4,282.6
Palos Verdes Estates	54.5	-24.1	200.8	-87.0	-28.2	-181.4	62.7	49.3	66.2
Paramount	-124.1	-3.3	92.3	-445.4	-144.1	-928.1	-83.4	49.1	-251.2
Pasadena	-1,626.5	-458.1	-3,252.4	-2,187.6	-736.5	-4,664.2	-2,977.7	-941.8	-6,483.1
Pico Rivera	-37.3	-166.8	-138.6	6,800.5	2,204.8	14,188.4	35.6	1.3	-11.2
Pomona	-133.3	-10.4	-499.3	-1,060.6	-321.3	-2,229.8	-854.3	-167.4	-1,886.8
Quartz Hill	-49.0	-17.8	-92.3	-64.3	-20.8	-134.3	-69.4	-22.7	-152.2
Rancho Palos Verdes	94.5	-128.6	-402.4	-465.2	-150.4	-971.1	-254.6	-37.9	-665.9
Redondo Beach	-925.7	-211.3	-1,408.6	-1,212.2	-392.0	-2,528.6	-1,203.7	-375.4	-2,684.7
Rolling Hills	-5.3	-2.5	-10.6	-9.2	-3.0	-19.1	-6.4	-1.5	-15.6
Rolling Hills Estates	-66.4	-40.2	20.1	-145.4	-47.0	-303.6	-156.7	-51.3	-343.9
Rosemead	-389.6	-142.9	-331.9	-513.0	-166.0	-1,069.2	-197.2	2.6	-521.6
Rowland Heights	-230.2	-42.0	-624.4	-579.9	-187.6	-1,209.4	-624.7	-204.6	-1,368.7
San Dimas	-104.3	-5.8	-509.9	-290.2	-66.5	-588.5	-364.5	-93.4	-812.0
San Fernando	-340.6	-123.5	-637.2	604.5	191.1	1,137.5	-479.6	-157.0	-1,050.7
San Gabriel	-425.6	-166.1	-552.3	-599.6	-193.9	-1,251.0	-529.0	-152.7	-1,200.9
San Marino	-104.0	-37.2	-89.4	-135.9	-44.0	-283.2	-129.3	-41.8	-284.7
Santa Clarita	2,408.2	1,112.1	4,344.4	10,887.1	3,044.2	25,293.9	17,715.4	4,536.9	42,549.5
Santa Fe Springs	-239.2	-42.3	-376.3	-466.9	-151.4	-968.8	-104.6	-18.2	-261.9
Santa Monica	-1,815.0	-669.2	-3,919.8	-2,866.2	-927.4	-5,974.2	-3,082.5	-1,008.9	-6,747.2
Sierra Madre	3.4	-36.1	-86.1	-132.5	-42.9	-276.5	-142.4	-46.5	-312.2
Signal Hill	-187.2	-66.3	-252.2	-243.4	-78.8	-506.2	-260.8	-85.4	-569.5
South El Monte	-34.6	9.6	-133.1	-185.8	-60.2	-386.6	-107.8	-17.5	-265.4
South Gate	-384.5	-215.7	-700.9	-780.6	-252.5	-1,628.0	-636.5	-168.6	-1,506.7
South Pasadena	-197.7	-108.8	-362.2	-395.7	-128.0	-825.1	-425.9	-139.4	-932.9
South San Gabriel	-43.7	-15.7	-82.2	-57.1	-18.5	-119.0	-61.5	-20.1	-134.7
South San Jose Hills	-34.7	-18.5	113.6	-66.9	-21.6	-139.5	-41.4	-8.1	-88.9
South Whittier	-45.1	171.9	201.6	-323.2	-104.5	-674.0	-348.2	-114.0	-762.7
Temple City	-222.1	-85.7	-585.9	-429.2	-138.8	-895.5	-387.0	-119.2	-852.7
Torrance	-2,469.6	-561.1	-4,485.1	-3,714.0	-1,201.4	-7,744.6	-3,381.8	-1,074.6	-7,497.1
Valinda	-104.0	-42.9	-5.4	-154.9	-50.1	-323.3	-167.1	-54.7	-366.5
Val Verde	1.0	0.4	1.9	4.0	1.3	8.0	-0.2	-0.1	-0.4
Vernon	-69.0	-98.5	-394.0	-347.5	-112.8	-720.3	-371.3	-121.8	-805.8
View Park-Windsor Hills	-80.8	-28.8	-151.9	-105.4	-34.1	-219.7	-113.5	-37.2	-248.4
Vincent	-16.8	-40.8	-213.9	-180.4	-58.3	-376.4	-190.0	-61.3	-416.8
Walnut	-143.4	-51.0	-251.8	-187.6	-60.6	-390.8	-199.0	-64.7	-435.5
Walnut Park	-82.7	-30.8	151.1	-111.2	-36.0	-232.0	-119.8	-39.2	-262.7
West Athens	-36.9	-15.2	25.8	-54.6	-17.7	-113.9	-58.8	-19.3	-128.8
West Carson	-206.0	-75.3	-179.2	-270.9	-87.6	-564.7	-291.6	-95.5	-638.5
West Compton	-58.6	-21.2	32.3	-75.0	-24.3	-155.7	-80.3	-26.3	-174.7
West Covina	-418.9	-40.9	-680.4	-1,391.2	-449.9	-2,902.9	-1,154.7	-316.5	-2,526.8
West Hollywood	-1,003.1	-365.1	-1,792.3	-1,314.8	-425.4	-2,741.2	-1,415.0	-463.2	-3,099.0
Westlake Village	235.2	279.5	533.1	20.2	20.8	-2.7	22.7	24.2	-1.4
Westmont	-120.8	-44.5	-19.1	-160.8	-52.0	-335.3	-173.3	-56.7	-379.7
West Puente Valley	27.6	-14.3	25.3	-64.6	-20.9	-134.6	367.1	146.7	756.7
West Whittier-Los Nietos	-66.1	-55.3	-64.2	-202.8	-65.6	-423.0	-218.5	-71.5	-479.0
Whittier	-270.5	-41.2	-815.8	-938.6	-297.7	-1,956.3	-886.4	-300.5	-2,221.2
Willowbrook	-31.9	65.5	26.7	-199.6	-64.6	-415.7	-214.8	-70.3	-469.4

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City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Aliso Viejo	-46.8	-16.4	-89.5	-53.9	-17.7	-109.5	-56.1	-18.5	-117.8
Anaheim	-692.1	-245.1	-1,315.4	-833.4	-271.8	-1,709.3	-878.6	-289.0	-1,876.0
Brea	-133.0	-47.3	-252.4	-162.8	-53.0	-335.0	-172.2	-56.6	-369.6
Buena Park	-252.0	-90.2	-476.8	-315.5	-102.5	-652.4	-336.2	-110.3	-726.9
Costa Mesa	-359.1	-125.7	-685.6	-415.2	-136.0	-843.7	-431.8	-142.5	-908.5
Coto de Caza	-6.1	-2.1	-11.6	-7.1	-2.3	-14.4	-7.4	-2.4	-15.6
Cypress	-189.4	-67.7	-358.5	-236.6	-76.9	-488.8	-251.6	-82.6	-543.6
Dana Point	-56.2	-19.6	-107.4	-64.1	-21.0	-130.0	-66.6	-22.0	-139.6
Foothill Ranch	-1.3	-0.5	-2.5	-1.6	-0.5	-3.2	-1.6	-0.5	-3.5
Fountain Valley	-134.0	-47.3	-255.1	-159.5	-52.1	-326.2	-167.4	-55.1	-355.9
Fullerton	-385.0	-137.1	-730.0	-473.5	-154.1	-975.3	-501.7	-164.8	-1,078.6
Garden Grove	-299.8	-106.2	-569.8	-361.2	-117.8	-740.8	-380.6	-125.2	-812.8
Huntington Beach	-371.1	-131.0	-706.2	-442.0	-144.3	-904.3	-464.1	-152.8	-986.9
Irvine	-355.4	-123.2	-681.4	-395.0	-129.9	-795.6	-406.6	-134.5	-843.0
Laguna Beach	-66.0	-23.1	-126.0	-76.6	-25.1	-155.8	-79.8	-26.3	-168.3
Laguna Hills	-59.2	-20.7	-113.1	-68.1	-22.3	-138.3	-70.7	-23.3	-148.6
Laguna Niguel	-84.5	-29.6	-161.4	-97.6	-32.0	-198.4	-101.5	-33.5	-213.5
Laguna Woods	-41.0	-14.4	-78.3	-47.8	-15.6	-97.3	-49.8	-16.4	-105.1
La Habra	-235.7	-84.6	-445.4	-299.2	-97.1	-620.1	-319.5	-104.8	-693.6
Lake Forest	-93.5	-32.6	-178.8	-107.0	-35.1	-216.9	-111.0	-36.6	-232.6
La Palma	-55.7	-19.9	-105.4	-69.3	-22.5	-143.0	-73.0	-23.9	-157.4
Las Flores	-2.2	-0.8	-4.1	-2.5	-0.8	-5.1	-2.6	-0.9	-5.5
Los Alamitos	-79.1	-28.3	-149.8	-98.6	-32.1	-203.7	-104.9	-34.4	-226.4
Mission Viejo	-116.2	-40.7	-221.8	-134.8	-44.1	-274.2	-140.4	-46.3	-295.7
Newport Beach	-276.3	-96.4	-528.4	-315.7	-103.5	-639.7	-327.0	-108.0	-684.8
Newport Coast	-6.0	-2.1	-11.5	-7.1	-2.3	-14.5	-7.4	-2.4	-15.7
Orange	-356.2	-125.6	-678.1	-423.1	-138.2	-865.0	-443.9	-146.2	-943.2
Placentia	-77.5	-27.4	-147.4	-92.8	-30.3	-190.2	-97.7	-32.1	-208.2
Portola Hills	-0.5	-0.2	-1.0	-0.7	-0.2	-1.3	-0.7	-0.2	-1.5
Rancho Santa Margarita	-19.4	-6.8	-37.0	-22.5	-7.4	-45.9	-23.5	-7.7	-49.5
Rossmore	-20.0	-7.2	-37.9	-25.4	-8.2	-52.7	-27.2	-8.9	-59.0
San Clemente	-92.1	-32.3	-175.8	-107.0	-35.0	-217.9	-111.9	-36.9	-236.0
San Joaquin Hills	-2.2	-0.8	-4.1	-2.6	-0.8	-5.2	-2.7	-0.9	-5.7
San Juan Capistrano	-70.4	-24.8	-134.1	-82.8	-27.1	-169.2	-87.0	-28.6	-184.3
Santa Ana	-546.1	-191.9	-1,041.2	-639.9	-209.3	-1,304.5	-668.6	-220.4	-1,413.6
Seal Beach	-104.0	-37.2	-196.8	-130.4	-42.3	-269.7	-138.9	-45.6	-300.5
Stanton	-61.1	-21.7	-116.1	-74.3	-24.2	-152.7	-78.4	-25.8	-168.0
Tustin	-164.6	-57.8	-313.9	-192.4	-62.9	-391.9	-200.9	-66.2	-424.3
Tustin Foothills	-22.6	-8.0	-43.2	-26.6	-8.7	-54.1	-27.7	-9.1	-58.7
Villa Park	-7.1	-2.5	-13.4	-8.5	-2.8	-17.3	-8.9	-2.9	-18.9
Westminster	-213.0	-75.7	-404.2	-259.7	-84.6	-533.9	-274.4	-90.2	-588.1
Yorba Linda	-70.4	-24.9	-133.8	-84.9	-27.7	-174.2	-89.5	-29.4	-191.1
Banning	-17.6	-6.2	-33.6	-20.3	-6.7	-41.3	-21.2	-7.0	-44.5
Beaumont	-11.3	-4.0	-21.6	-13.0	-4.3	-26.4	-13.5	-4.5	-28.3
Bermuda Dunes	-2.6	-0.9	-4.9	-3.0	-1.0	-6.2	-3.2	-1.0	-6.7
Cabazon	-0.8	-0.3	-1.6	-1.0	-0.3	-2.0	-1.0	-0.3	-2.1
Calimesa	-5.9	-2.1	-11.2	-6.8	-2.2	-13.8	-7.1	-2.3	-14.8
Canyon Lake	-1.9	-0.6	-3.6	-2.1	-0.7	-4.3	-2.2	-0.7	-4.6
Cathedral City	-47.5	-16.6	-90.7	-54.2	-17.8	-109.8	-56.2	-18.6	-117.8
Cherry Valley	-1.5	-0.5	-2.9	-1.7	-0.6	-3.5	-1.8	-0.6	-3.7
Coachella	-21.3	-7.5	-40.6	-25.1	-8.2	-51.2	-26.3	-8.7	-55.8
Corona	-147.4	-51.8	-280.8	-173.0	-56.6	-353.0	-181.2	-59.7	-383.6
Desert Hot Springs	-7.6	-2.7	-14.6	-8.7	-2.8	-17.5	-9.0	-3.0	-18.8
East Hemet	-12.8	-4.5	-24.4	-14.7	-4.8	-29.8	-15.3	-5.0	-32.0
El Cerrito	-2.4	-0.8	-4.5	-2.8	-0.9	-5.8	-3.0	-1.0	-6.3
Glen Avon	-21.0	-7.4	-40.0	-25.1	-8.2	-51.5	-26.5	-8.7	-56.4
Hemet	-68.5	-24.0	-130.9	-79.0	-25.9	-160.6	-82.3	-27.1	-173.0
Highgrove	-1.4	-0.5	-2.6	-1.5	-0.5	-3.0	-1.6	-0.5	-3.2
Home Gardens	-7.1	-2.5	-13.4	-8.5	-2.8	-17.3	-8.9	-2.9	-19.1
Homeland	-1.1	-0.4	-2.0	-1.3	-0.4	-2.6	-1.3	-0.4	-2.9
Idylwild-Pine Cove	-0.1	0.0	-0.2	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Indian Wells	-10.8	-3.7	-20.9	-11.0	-3.7	-21.7	-11.0	-3.7	-22.0
Indio	-45.8	-16.1	-87.5	-53.2	-17.4	-108.3	-55.5	-18.3	-116.9

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lake Elsinore	-32.2	-11.3	-61.4	-37.4	-12.2	-76.0	-39.0	-12.9	-82.1
Lakeland Village	-2.5	-0.9	-4.7	-2.9	-0.9	-5.9	-3.0	-1.0	-6.5
Lakeview	-1.3	-0.5	-2.4	-1.6	-0.5	-3.2	-1.6	-0.5	-3.5
La Quinta	-9.9	-3.4	-19.2	-10.3	-3.4	-20.4	-10.3	-3.4	-20.8
March AFB	-1.4	-0.5	-2.6	-1.6	-0.5	-3.2	-1.6	-0.5	-3.5
Mecca	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Mira Loma	-13.5	-4.8	-25.7	-16.2	-5.3	-33.1	-17.0	-5.6	-36.2
Moreno Valley	-97.6	-34.1	-186.3	-112.4	-36.8	-228.2	-116.8	-38.5	-245.4
Murrieta	-22.7	-8.0	-43.4	-26.3	-8.6	-53.5	-27.4	-9.0	-57.8
Murrieta Hot Springs	-0.7	-0.2	-1.3	-0.8	-0.3	-1.6	-0.8	-0.3	-1.7
Norco	-24.4	-8.5	-46.9	-27.1	-8.9	-54.6	-27.9	-9.2	-57.8
Nuevo	-2.1	-0.7	-4.0	-2.5	-0.8	-5.2	-2.7	-0.9	-5.8
Palm Desert	-103.4	-36.2	-197.4	-119.7	-39.2	-243.4	-124.8	-41.2	-262.8
Palm Springs	-101.5	-35.3	-194.3	-114.4	-37.6	-231.2	-118.2	-39.1	-246.5
Pedley	-12.2	-4.3	-23.3	-14.5	-4.7	-29.5	-15.2	-5.0	-32.2
Perris	-29.9	-10.4	-57.2	-34.2	-11.2	-69.3	-35.5	-11.7	-74.3
Quail Valley	-0.5	-0.2	-0.9	-0.6	-0.2	-1.1	-0.6	-0.2	-1.2
Rancho Mirage	-25.6	-8.8	-49.3	-27.8	-9.2	-55.8	-28.4	-9.4	-58.2
Riverside	-427.3	-149.8	-815.4	-496.0	-162.4	-1,009.2	-517.1	-170.5	-1,090.0
Romoland	-1.4	-0.5	-2.6	-1.5	-0.5	-3.0	-1.6	-0.5	-3.2
Rubidoux	-17.1	-6.0	-32.7	-20.2	-6.6	-41.1	-21.1	-6.9	-44.7
San Jacinto	-16.9	-5.9	-32.2	-19.7	-6.4	-40.0	-20.5	-6.8	-43.3
Sedco Hills	-3.4	-1.2	-6.5	-3.9	-1.3	-7.9	-4.0	-1.3	-8.5
Sun City	-20.5	-7.2	-39.0	-23.9	-7.8	-48.7	-24.9	-8.2	-52.6
Sunnyslope	-1.4	-0.5	-2.6	-1.6	-0.5	-3.3	-1.7	-0.6	-3.6
Temecula	-55.2	-19.3	-105.5	-63.8	-20.9	-129.8	-66.6	-22.0	-140.2
Thousand Palms	-0.8	-0.3	-1.5	-0.9	-0.3	-1.8	-0.9	-0.3	-1.9
Valle Vista	-3.2	-1.1	-6.1	-3.7	-1.2	-7.5	-3.8	-1.3	-8.0
Wildomar	-8.5	-3.0	-16.2	-9.8	-3.2	-19.8	-10.2	-3.3	-21.3
Winchester	-3.0	-1.1	-5.8	-3.6	-1.2	-7.3	-3.8	-1.2	-8.0
Woodcrest	-8.6	-3.0	-16.4	-9.8	-3.2	-19.9	-10.2	-3.4	-21.4
Camarillo	-79.0	-27.6	-150.9	-91.0	-29.8	-184.8	-94.6	-31.2	-198.7
Casa Conejo	-3.6	-1.3	-6.9	-4.3	-1.4	-8.9	-4.6	-1.5	-9.7
Channel Islands Beach	-4.8	-1.7	-9.1	-5.5	-1.8	-11.3	-5.8	-1.9	-12.1
El Rio	-5.9	-2.0	-11.2	-6.7	-2.2	-13.7	-7.0	-2.3	-14.7
Fillmore	-6.0	-2.1	-11.4	-6.9	-2.3	-13.9	-7.1	-2.4	-14.9
Meiners Oaks	-2.9	-1.0	-5.5	-3.3	-1.1	-6.6	-3.4	-1.1	-7.1
Mira Monte	-7.4	-2.6	-14.2	-8.5	-2.8	-17.2	-8.8	-2.9	-18.4
Moorpark	-26.1	-9.2	-49.7	-31.1	-10.2	-63.6	-32.7	-10.8	-69.5
Oak Park	-0.6	-0.2	-1.1	-0.8	-0.2	-1.6	-0.8	-0.3	-1.8
Oak View	-2.9	-1.0	-5.5	-3.3	-1.1	-6.7	-3.4	-1.1	-7.2
Ojai	-6.0	-2.1	-11.5	-6.8	-2.2	-13.6	-7.0	-2.3	-14.5
Oxnard	-185.0	-64.7	-353.3	-213.5	-69.9	-433.7	-222.1	-73.3	-467.1
Piru	-0.2	-0.1	-0.4	-0.3	-0.1	-0.5	-0.3	-0.1	-0.6
Port Hueneme	-18.8	-6.6	-36.0	-21.6	-7.1	-43.9	-22.5	-7.4	-47.2
San Buenaventura (Ventura)	-169.2	-59.0	-323.6	-192.6	-63.2	-390.1	-199.5	-65.9	-417.3
Santa Paula	-29.7	-10.4	-56.5	-35.0	-11.4	-71.5	-36.7	-12.1	-77.8
Simi Valley	-220.7	-78.3	-418.7	-269.2	-87.7	-553.6	-284.7	-93.6	-610.4
Thousand Oaks	-496.2	-176.1	-939.5	-617.7	-200.7	-1,275.2	-656.5	-215.5	-1,416.1
Adelanto	-9.6	-3.4	-18.3	-11.4	-3.7	-23.4	-12.0	-4.0	-25.6
Apple Valley	-34.4	-12.1	-65.6	-40.1	-13.1	-81.8	-42.0	-13.8	-88.6
Barstow	-20.0	-6.9	-38.2	-22.4	-7.4	-45.2	-23.1	-7.6	-48.1
Big Bear City	-0.3	-0.1	-0.7	-0.4	-0.1	-0.8	-0.4	-0.1	-0.9
Big Bear Lake	-10.4	-3.6	-19.9	-11.7	-3.8	-23.7	-12.1	-4.0	-25.3
Bloomington	-15.2	-5.3	-29.0	-17.7	-5.8	-35.9	-18.4	-6.1	-38.8
Chino	-184.6	-65.9	-349.8	-228.2	-74.2	-470.8	-242.4	-79.6	-522.0
Chino Hills	-79.2	-28.5	-149.7	-100.7	-32.7	-208.9	-107.7	-35.3	-233.9
Colton	-67.5	-23.7	-128.9	-78.4	-25.7	-159.6	-81.8	-27.0	-172.4
Crestline	-3.9	-1.4	-7.4	-4.5	-1.5	-9.2	-4.8	-1.6	-10.1
Fontana	-121.1	-42.5	-230.9	-141.5	-46.3	-288.4	-147.9	-48.8	-312.6
Grand Terrace	-39.9	-14.0	-76.1	-46.5	-15.2	-94.8	-48.6	-16.0	-102.5
Hesperia	-43.2	-15.1	-82.4	-50.0	-16.4	-101.8	-52.2	-17.2	-110.0
Highland	-27.4	-9.7	-52.3	-32.4	-10.6	-66.0	-33.8	-11.1	-71.7

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Joshua Tree	-0.6	-0.2	-1.2	-0.7	-0.2	-1.4	-0.7	-0.2	-1.6
Lake Arrowhead	-2.6	-0.9	-5.1	-2.5	-0.8	-4.9	-2.5	-0.8	-4.7
Lenwood	-0.3	-0.1	-0.6	-0.3	-0.1	-0.6	-0.3	-0.1	-0.6
Loma Linda	-15.9	-5.6	-30.3	-18.4	-6.0	-37.4	-19.1	-6.3	-40.3
Mentone	-3.0	-1.1	-5.7	-3.6	-1.2	-7.4	-3.8	-1.2	-8.1
Montclair	-349.9	-126.1	-660.1	-448.7	-145.4	-932.4	-481.0	-157.7	-1,048.0
Morongo Valley	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.3
Mountain View Acres	-4.7	-1.7	-9.0	-5.7	-1.8	-11.6	-6.0	-2.0	-12.7
Muscoy	-7.7	-2.7	-14.5	-9.3	-3.0	-19.1	-9.8	-3.2	-21.0
Nebo Center	-0.1	0.0	-0.3	-0.1	0.0	-0.3	-0.2	-0.1	-0.3
Ontario	-397.8	-141.2	-755.3	-483.1	-157.4	-992.8	-510.5	-167.9	-1,093.3
Rancho Cucamonga	-189.0	-66.7	-359.7	-224.7	-73.4	-459.7	-236.0	-77.7	-501.8
Redlands	-88.5	-30.9	-169.3	-101.0	-33.1	-204.7	-104.7	-34.6	-219.2
Rialto	-68.5	-24.0	-130.7	-79.7	-26.1	-162.4	-83.2	-27.4	-175.6
Running Springs	-0.1	0.0	-0.2	0.1	0.0	0.4	0.2	0.1	0.6
San Antonio Heights	-2.5	-0.9	-4.8	-3.1	-1.0	-6.5	-3.3	-1.1	-7.2
San Bernardino	-280.7	-98.3	-535.7	-325.3	-106.5	-661.5	-339.1	-111.8	-714.4
Twentynine Palms	-8.9	-3.1	-17.1	-10.3	-3.4	-20.9	-10.7	-3.5	-22.5
Twentynine Palms Base	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Upland	-215.3	-77.0	-407.6	-268.2	-87.2	-554.0	-285.2	-93.6	-615.8
Victorville	-117.8	-41.6	-224.2	-140.0	-45.7	-286.4	-147.2	-48.5	-313.0
Wrightwood	-1.1	-0.4	-2.1	-1.0	-0.3	-2.0	-1.0	-0.3	-2.0
Yucaipa	-28.1	-9.8	-53.5	-32.7	-10.7	-66.5	-34.1	-11.2	-71.9
Yucca Valley	-10.3	-3.6	-19.8	-11.8	-3.9	-23.9	-12.3	-4.0	-25.7
LOS ANGELES - UNINCOR	5,472.0	2,044.1	10,400.8	5,041.2	2,019.7	9,814.3	5,011.6	1,439.9	11,748.1
ORANGE - UNINCOR	-212.4	-75.0	-405.4	-253.5	-82.7	-518.5	-266.3	-87.7	-566.0
RIVERSIDE - UNINCOR	-219.6	-77.1	-418.6	-256.7	-84.0	-523.3	-268.6	-88.5	-567.7
SAN BERNARDINO - UNINCOR	-314.1	-111.4	-597.0	-379.5	-123.7	-779.2	-400.8	-131.8	-857.1
VENTURA - UNINCOR	-247.5	-86.3	-473.3	-294.4	-95.7	-602.1	-311.6	-102.6	-661.4
Total	-64,226	-22,649	-122,277	-76,088	-24,851	-155,556	-79,947	-26,308	-169,866

Table A26. Present Value of Displacement Net Impacts by Place by Scenario

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Action	9.1	3.3	14.4	-0.3	0.0	-0.7	-0.7	-0.2	-1.6
Agoura Hills	62.0	-26.3	102.6	-74.4	-11.6	-178.8	-100.3	-21.6	-253.7
Alhambra	-441.5	-275.9	-896.7	-1,007.1	-325.2	-2,107.3	-991.1	-305.7	-2,224.1
Alondra Park	-41.8	100.3	-78.5	-55.5	-17.9	-116.2	217.9	123.6	480.1
Altadena	-222.0	-81.0	-224.6	-295.7	-95.5	-618.6	-319.9	-104.6	-704.3
Arcadia	-655.3	-37.0	-1,030.5	-1,010.6	-326.2	-2,114.5	-844.7	-241.2	-1,906.3
Artesia	-279.3	-103.0	-425.4	-375.8	-121.4	-786.4	-406.1	-132.7	-894.3
Avocado Heights	101.2	-44.6	58.6	-162.9	-52.6	-340.7	-175.6	-57.3	-386.8
Azusa	11.6	-123.1	-512.5	4,727.3	1,439.0	10,401.6	-486.1	-159.0	-1,070.3
Baldwin Park	69.6	107.5	-344.3	-472.7	-152.5	-989.4	-496.2	-159.2	-1,095.7
Bell	-162.0	-98.6	-135.2	-359.7	-116.1	-752.5	-213.5	-35.6	-522.2
Bellflower	-111.6	43.3	-692.2	-709.4	-229.1	-1,484.3	-766.1	-250.3	-1,686.5
Bell Gardens	-120.5	-81.4	-212.8	-297.0	-95.9	-621.4	-251.5	-68.8	-591.4
Beverly Hills	-1,144.5	-416.9	-2,038.6	-1,520.9	-491.2	-3,182.3	-1,641.9	-536.4	-3,615.1
Bradbury	-0.1	2.2	165.9	-15.0	4.8	-31.4	-16.3	-5.3	-35.9
Burbank	-571.7	-475.0	-1,933.9	-1,739.5	-561.7	-3,639.7	-1,475.2	-464.5	-3,285.9
Calabasas	256.2	88.8	390.3	12.9	16.6	-6.9	56.2	40.9	85.8
Carson	-630.8	-292.2	-756.5	-1,066.2	-344.3	-2,230.8	-563.4	-168.0	-1,369.2
Cerritos	-110.8	3.9	-276.8	-855.4	-276.2	-1,789.8	-354.2	-7.5	-748.5
Charter Oak	16.5	-27.4	7.4	-99.9	-32.3	-209.0	-108.1	-35.4	-238.0
Citrus	-7.7	-14.2	69.7	-55.2	-17.8	-115.4	-56.4	-18.3	-124.2
Claremont	-16.8	-27.3	119.6	-318.9	-81.9	-709.9	-470.2	-153.7	-1,035.3
Commerce	-243.1	-6.8	-520.0	-465.6	-150.4	-974.2	-352.0	-85.9	-781.8
Compton	-73.4	-204.5	-306.5	-748.0	-241.5	-1,565.0	-707.3	-211.5	-1,615.0
Covina	-53.6	-0.9	-740.3	-847.4	-273.6	-1,773.2	-351.3	-78.8	-799.8
Cudahy	-117.4	-43.8	-120.1	-159.8	-51.6	-334.4	-169.9	-55.0	-374.9
Culver City	-865.8	-362.4	-1,864.6	-1,322.9	-427.2	-2,768.1	-1,431.5	-468.3	-3,151.7
Del Aire	-102.0	-37.0	-191.4	-135.6	-43.8	-283.7	-146.7	-48.0	-323.0
Desert View Highlands	-14.1	-5.1	-26.5	-18.7	-6.0	-39.2	-20.3	-6.6	-44.6
Diamond Bar	-181.3	-94.6	-134.9	-279.4	-77.9	-588.5	-232.3	-59.9	-527.2
Downey	-239.5	-83.9	-715.5	-1,167.9	-377.1	-2,443.6	-1,068.1	-311.6	-2,452.0
Duarte	96.8	152.2	35.6	-129.7	-44.0	-258.9	-211.4	-56.0	-508.0
East Compton	-20.5	-7.5	26.5	-27.2	-8.8	-56.9	-27.8	-8.8	-62.1
East La Mirada	-37.1	-13.5	-69.6	-49.3	-15.9	-103.2	-53.4	-17.5	-117.5
East Los Angeles	-128.7	157.8	-284.6	-717.1	-231.6	-1,500.4	-620.9	-173.6	-1,377.6
East Pasadena	-222.3	-81.2	-418.5	-296.3	-95.7	-620.0	-318.4	-104.1	-701.3
East San Gabriel	-136.2	37.8	-154.0	-181.0	-58.5	-378.7	640.6	229.4	1,320.5
El Monte	-431.6	-184.4	-845.3	-1,100.6	-355.4	-2,302.9	-779.1	-192.7	-1,781.0
El Segundo	-148.0	-99.7	-512.7	2,222.5	736.6	4,456.6	-292.5	-76.6	-696.8
Florence-Graham	122.5	51.3	143.5	-252.7	-81.6	-528.8	-272.4	-88.9	-600.3
Gardena	-333.0	-245.2	-1,157.6	-894.7	-288.9	-1,872.0	-849.3	-255.4	-1,882.5
Glendale	-1,807.0	-407.3	-3,561.0	-2,737.4	-882.0	-5,787.8	-3,529.1	-1,154.1	-7,769.6
Glendora	142.2	50.0	-141.1	-323.2	-109.7	-644.8	-701.8	-229.6	-1,545.1
Hacienda Heights	109.2	-113.5	6.7	-414.0	-133.7	-866.3	-448.0	-146.5	-986.4
Hawaiian Gardens	-69.0	-1.1	16.8	-92.2	-29.8	-192.9	-99.0	-32.3	-218.1
Hawthorne	-608.1	-224.8	-787.9	-867.0	-280.0	-1,814.0	-883.6	-278.8	-1,936.1
Hermosa Beach	-341.4	-124.5	-641.4	-454.2	-146.7	-950.5	-365.7	-96.9	-853.2
Hidden Hills	52.8	-3.8	40.2	-15.8	-5.1	-33.1	-0.8	2.9	-10.6
Huntington Park	-379.4	-176.8	-578.5	-645.0	-208.3	-1,349.6	-697.9	-228.3	-1,536.6
Industry	-686.1	-284.4	-1,120.0	-934.8	-280.7	-1,938.6	-752.0	-198.5	-1,696.8
Inglewood	-358.3	-134.4	-1,141.3	-1,374.1	-443.7	-2,875.2	-1,275.1	-376.9	-2,823.9
Irwindale	-22.2	-4.7	63.2	84.9	47.5	117.7	219.5	122.2	442.1
La Canada Flintridge	-82.8	184.4	-59.6	-273.0	-88.2	-571.4	-296.5	-96.9	-652.8
La Crescenta-Montrose	23.2	150.3	-219.9	-211.5	-68.3	-442.6	-228.9	-74.9	-503.9
Ladera Heights	-54.9	-20.0	7.0	-73.0	-23.6	-152.7	-79.0	-25.8	-173.9
La Habra Heights	74.5	97.9	31.9	157.7	66.2	332.1	-52.0	-15.5	-118.6
Lake Los Angeles	-7.4	-2.7	-13.8	-9.8	-3.2	-20.5	-10.6	-3.5	-23.3
Lakewood	-278.2	-199.7	-444.2	-1,098.1	-354.6	-2,297.5	-909.1	-243.6	-2,072.9
La Mirada	-39.2	-89.4	153.1	-326.1	-105.3	-682.3	-352.8	-115.4	-776.8
Lancaster	-1,389.6	-505.8	-2,608.1	-1,848.9	-597.1	-3,868.6	-2,000.6	-654.4	-4,404.6
La Puente	-2.0	35.9	127.0	-288.2	-93.1	-603.0	-194.3	-42.7	-484.0
La Verne	-210.0	109.2	44.1	214.0	97.2	416.8	-384.0	-125.3	-845.9
Lawndale	-251.7	-90.4	-158.4	-334.5	-108.0	-699.9	-288.4	-80.8	-666.5

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lennox	-14.7	59.5	22.7	-159.9	-51.6	-334.6	-173.0	-56.6	-381.0
Little Rock	-2.0	-0.7	-3.8	-2.7	-0.9	-5.6	-2.9	-0.9	-6.4
Lomita	-244.2	-89.4	-355.0	-326.2	-105.3	-682.5	-352.1	-115.0	-775.6
Long Beach	-358.0	-357.9	-156.9	4,412.5	1,412.5	9,303.9	14,084.6	4,313.5	31,689.5
Los Angeles	-19,498.8	-7,814.2	-37,610.4	-23,351.8	-7,830.4	-48,416.6	-30,252.3	-9,922.7	-65,815.6
Lynwood	47.8	19.7	-312.8	-367.4	-118.7	-768.8	-394.6	-128.5	-870.5
Malibu	50.5	-5.1	124.3	508.2	244.2	890.0	763.0	276.8	1,601.0
Manhattan Beach	-367.2	-226.1	-620.0	-814.6	-263.0	-1,705.2	-719.3	-204.4	-1,645.5
Marina del Rey	-228.5	-83.2	-428.5	-302.5	-97.7	-633.1	-328.6	-107.5	-723.5
Mayflower Village	-20.0	-7.3	32.4	-26.6	-8.6	-55.7	-5.2	3.0	-27.1
Maywood	-40.9	-53.2	-80.2	-194.0	-62.7	-405.9	-113.2	-17.4	-312.9
Monrovia	-468.1	-167.3	-441.6	-469.8	-118.7	-932.1	-679.4	-218.3	-1,508.1
Montebello	-343.2	-240.7	-1,030.5	-836.7	-270.0	-1,752.0	-949.9	-310.5	-2,091.8
Monterey Park	-496.9	59.5	-99.4	-661.7	-213.7	-1,384.6	-562.3	-154.8	-1,247.7
North El Monte	-16.5	-6.0	5.6	-21.9	-7.1	-45.9	66.8	30.8	141.1
Norwalk	-152.4	25.7	46.6	-770.9	-248.9	-1,612.9	-828.6	-270.8	-1,824.9
Palmdale	-1,041.0	-377.9	-1,965.9	-1,708.3	-550.0	-3,575.4	-1,857.0	-606.1	-4,092.9
Palos Verdes Estates	64.4	-20.7	219.6	-75.8	-24.5	-158.7	74.3	53.1	90.5
Paramount	-73.0	14.6	190.1	-387.0	-125.0	-809.7	-22.8	69.1	-124.3
Pasadena	-1,363.0	-367.4	-2,745.9	-1,901.6	-642.2	-4,091.7	-2,686.0	-845.2	-5,884.4
Pico Rivera	16.3	-148.2	-36.0	6,860.1	2,224.4	14,308.4	96.8	21.6	115.8
Pomona	18.2	42.6	-209.7	-886.7	-264.3	-1,877.0	-673.6	-107.7	-1,507.6
Quartz Hill	-45.0	-16.4	-84.6	-59.8	-19.3	-125.2	-64.7	-21.2	-142.5
Rancho Palos Verdes	124.8	-118.1	-344.3	-430.7	-139.1	-901.2	-218.9	-26.1	-591.3
Redondo Beach	-837.6	-180.8	-1,239.7	-1,114.2	-359.8	-2,331.3	-1,103.0	-342.1	-2,476.0
Rolling Hills	-4.6	-2.3	-9.3	-8.4	-2.7	-17.6	-5.7	-1.2	-14.0
Rolling Hills Estates	-56.3	-36.7	39.5	-133.7	-43.2	-279.8	-144.6	-47.3	-318.4
Rosemead	-298.7	-110.7	-159.3	-403.8	-130.4	-844.9	-81.1	40.8	-273.5
Rowland Heights	-174.0	-22.4	-517.0	-515.1	-166.3	-1,077.7	-557.3	-182.3	-1,227.1
San Dimas	-55.3	11.3	-416.3	-233.9	-48.0	-474.1	-305.8	-74.0	-688.8
San Fernando	-295.1	-107.5	-550.4	657.4	208.4	1,245.2	-424.3	-138.8	-934.3
San Gabriel	-375.8	-148.6	-457.0	-542.3	-175.1	-1,134.7	-469.4	-133.1	-1,075.8
San Marino	-87.1	-31.3	-57.1	-116.1	-37.5	-242.8	-108.6	-35.0	-241.2
Santa Clarita	2,532.3	1,155.5	4,581.4	11,030.1	3,091.0	25,584.3	17,864.1	4,585.9	42,861.9
Santa Fe Springs	-126.5	-2.9	-160.0	-337.3	-108.9	-705.8	30.1	26.2	21.0
Santa Monica	-1,558.1	-580.3	-3,427.0	-2,581.9	-833.8	-5,402.3	-2,790.7	-912.4	-6,143.5
Sierra Madre	13.7	-32.5	-66.3	-121.0	-39.1	-253.2	-130.4	-42.6	-287.4
Signal Hill	-148.0	-52.7	-177.3	-198.9	-64.2	-416.1	-214.7	-70.1	-472.9
South El Monte	2.6	22.7	-62.3	-142.1	-45.9	-297.3	-62.0	-2.4	-168.5
South Gate	-309.0	-189.2	-556.7	-693.3	-223.9	-1,450.7	-545.7	-138.7	-1,315.6
South Pasadena	-161.1	-96.1	-292.1	-354.2	-114.4	-741.2	-383.1	-125.3	-843.6
South San Gabriel	-39.0	-14.1	-73.3	-51.8	-16.7	-108.5	-56.1	-18.4	-123.5
South San Jose Hills	-29.3	-16.6	123.9	-60.7	-19.6	-127.1	-35.0	-6.0	-75.6
South Whittier	-15.6	182.2	258.0	-289.5	-93.5	-605.8	-313.3	-102.5	-689.7
Temple City	-187.9	-73.7	-520.4	-389.9	-125.9	-815.7	-346.2	-105.8	-767.1
Torrance	-2,144.6	-448.1	-3,862.6	-3,347.7	-1,081.1	-7,004.7	-3,004.1	-949.7	-6,710.5
Valinda	-92.9	-39.0	15.8	-142.2	-45.9	-297.5	-153.9	-50.3	-338.8
Val Verde	1.0	0.4	2.0	4.1	1.3	8.1	-0.1	0.0	-0.3
Vernon	62.7	-52.0	-143.6	-189.6	-61.2	-396.8	-205.2	-67.1	-451.7
View Park-Windsor Hills	-72.8	-26.0	-136.4	-96.7	-31.2	-202.3	-104.6	-34.2	-230.3
Vincent	-3.0	-35.9	-187.5	-164.4	-53.1	-344.0	-173.4	-55.9	-381.9
Walnut	-124.1	-44.3	-214.9	-165.9	-53.5	-347.1	-176.7	-57.3	-389.0
Walnut Park	-74.0	-27.8	167.8	-101.2	-32.7	-211.9	-109.6	-35.8	-241.2
West Athens	-31.1	-13.1	37.0	-47.9	-15.5	-100.2	-51.8	-17.0	-114.1
West Carson	-184.8	-68.0	-138.4	-248.0	-80.1	-518.9	-268.4	-87.8	-590.8
West Compton	-36.8	-13.5	73.8	-49.2	-15.9	-103.0	-53.3	-17.4	-117.3
West Covina	-308.5	-2.4	-469.4	-1,264.6	-408.4	-2,646.0	-1,023.3	-273.2	-2,251.2
West Hollywood	-902.5	-330.4	-1,598.9	-1,205.6	-389.3	-2,522.6	-1,303.8	-426.3	-2,870.8
Westlake Village	242.7	282.2	547.5	28.9	23.7	15.1	31.8	27.2	17.7
Westmont	-109.5	-40.6	2.6	-148.2	-47.9	-310.1	-160.4	-52.5	-353.1
West Puente Valley	35.2	-11.6	39.9	-55.7	-18.0	-116.5	376.4	149.8	776.2
West Whittier-Los Nietos	-47.3	-48.7	-28.2	-181.0	-58.4	-378.7	-195.8	-64.1	-431.2
Whittier	-180.4	-9.8	-643.4	-836.0	-264.0	-1,748.4	-880.1	-265.4	-1,998.7
Willowbrook	1.3	77.1	89.9	-160.8	-51.9	-336.5	-174.0	-56.9	-383.1

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Aliso Viejo	-3.2	-1.1	-5.9	-4.2	-1.4	-8.8	-4.5	-1.5	-10.0
Anaheim	-229.1	-83.4	-430.2	-304.4	-98.3	-636.9	-329.4	-107.7	-725.2
Brea	-53.8	-19.6	-101.0	-71.5	-23.1	-149.6	-77.4	-25.3	-170.3
Buena Park	-139.8	-50.9	-262.4	-185.8	-60.0	-388.8	-201.1	-65.8	-442.7
Costa Mesa	-60.2	-21.9	-113.0	-80.0	-25.8	-167.4	-86.6	-28.3	-190.6
Coto de Caza	-0.4	-0.2	-0.8	-0.6	-0.2	-1.2	-0.6	-0.2	-1.3
Cypress	-103.9	-37.9	-195.2	-138.1	-44.6	-289.0	-149.5	-48.9	-329.1
Dana Point	-1.7	-0.6	-3.3	-2.3	-0.7	-4.9	-2.5	-0.8	-5.5
Foothill Ranch	-0.1	0.0	-0.2	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4
Fountain Valley	-28.0	-10.2	-52.6	-37.2	-12.0	-77.8	-40.2	-13.2	-88.6
Fullerton	-187.7	-68.4	-352.5	-249.4	-80.5	-521.8	-269.9	-88.3	-594.1
Garden Grove	-97.4	-35.5	-183.0	-129.5	-41.8	-270.9	-140.1	-45.8	-308.5
Huntington Beach	-104.3	-38.0	-196.0	-138.7	-44.8	-290.1	-150.0	-49.1	-330.3
Irvine	-19.8	-7.2	-37.1	-26.3	-8.5	-54.9	-28.4	-9.3	-62.6
Laguna Beach	-5.0	-1.8	-9.4	-6.7	-2.2	-14.0	-7.2	-2.4	-15.9
Laguna Hills	-3.5	-1.3	-6.6	-4.6	-1.5	-9.7	-5.0	-1.6	-11.1
Laguna Niguel	-4.4	-1.6	-8.3	-5.9	-1.9	-12.3	-6.4	-2.1	-14.0
Laguna Woods	-2.8	-1.0	-5.2	-3.7	-1.2	-7.7	-4.0	-1.3	-8.7
La Habra	-128.5	-46.8	-241.5	-170.9	-55.2	-357.5	-184.9	-60.5	-407.2
Lake Forest	-5.3	-1.9	-10.0	-7.1	-2.3	-14.9	-7.7	-2.5	-16.9
La Palma	-31.0	-11.3	-58.1	-41.4	-13.4	-86.6	-44.4	-14.4	-97.7
Las Flores	-0.1	0.0	-0.2	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Los Alamitos	-38.9	-14.2	-73.0	-51.6	-16.7	-108.0	-55.9	-18.3	-123.0
Mission Viejo	-6.3	-2.3	-11.8	-8.4	-2.7	-17.5	-9.1	-3.0	-20.0
Newport Beach	-42.2	-15.4	-79.2	-56.0	-18.1	-117.2	-60.6	-19.8	-133.5
Newport Coast	-1.2	-0.4	-2.2	-1.6	-0.5	-3.3	-1.7	-0.6	-3.7
Orange	-82.7	-30.1	-155.3	-109.9	-35.5	-229.9	-118.9	-38.9	-261.7
Placentia	-25.4	-9.2	-47.7	-33.7	-10.9	-70.6	-36.5	-11.9	-80.4
Portola Hills	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.2
Rancho Santa Margarita	-1.2	-0.4	-2.3	-1.6	-0.5	-3.4	-1.8	-0.6	-3.9
Rossmore	-14.0	-5.1	-26.3	-18.6	-6.0	-39.0	-20.1	-6.6	-44.4
San Clemente	-2.4	-0.9	-4.5	-3.2	-1.0	-6.6	-3.4	-1.1	-7.5
San Joaquin Hills	-0.5	-0.2	-0.9	-0.6	-0.2	-1.3	-0.7	-0.2	-1.4
San Juan Capistrano	-2.4	-0.9	-4.6	-3.2	-1.0	-6.8	-3.5	-1.1	-7.7
Santa Ana	-83.5	-30.4	-156.8	-110.9	-35.8	-232.1	-120.1	-39.3	-264.3
Seal Beach	-77.4	-28.2	-145.3	-102.8	-33.2	-215.1	-111.2	-36.4	-244.9
Stanton	-24.8	-9.0	-46.6	-33.0	-10.6	-69.0	-35.7	-11.7	-78.5
Tustin	-20.5	-7.5	-38.5	-27.3	-8.8	-57.0	-29.5	-9.6	-64.9
Tustin Foothills	-3.9	-1.4	-7.3	-5.2	-1.7	-10.8	-5.6	-1.8	-12.3
Villa Park	-2.0	-0.7	-3.8	-2.7	-0.9	-5.6	-2.9	-0.9	-6.3
Westminster	-88.5	-32.2	-166.3	-117.6	-38.0	-246.2	-127.3	-41.6	-280.3
Yorba Linda	-18.8	-6.9	-35.4	-25.0	-8.1	-52.4	-27.1	-8.9	-59.6
Banning	-0.8	-0.3	-1.5	-1.0	-0.3	-2.2	-1.1	-0.4	-2.5
Beaumont	-0.5	-0.2	-1.0	-0.7	-0.2	-1.5	-0.8	-0.2	-1.7
Bermuda Dunes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cabazon	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Calimesa	-0.3	-0.1	-0.6	-0.4	-0.1	-0.9	-0.5	-0.2	-1.1
Canyon Lake	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Cathedral City	-1.6	-0.6	-3.1	-2.2	-0.7	-4.6	-2.4	-0.8	-5.2
Cherry Valley	-0.1	0.0	-0.2	-0.2	0.0	-0.3	-0.2	-0.1	-0.4
Coachella	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Corona	-14.0	-5.1	-26.3	-18.6	-6.0	-38.9	-20.1	-6.6	-44.3
Desert Hot Springs	-0.4	-0.1	-0.7	-0.5	-0.2	-1.0	-0.5	-0.2	-1.1
East Hemet	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.5
El Cerrito	-0.3	-0.1	-0.6	-0.4	-0.1	-0.9	-0.5	-0.2	-1.0
Glen Avon	-4.2	-1.5	-7.8	-5.5	-1.8	-11.6	-6.0	-2.0	-13.2
Hemet	-1.2	-0.4	-2.2	-1.6	-0.5	-3.3	-1.7	-0.6	-3.7
Highgrove	-0.1	0.0	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Home Gardens	-0.4	-0.1	-0.7	-0.5	-0.2	-1.0	-0.5	-0.2	-1.2
Homeland	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Idyllwild-Pine Cove	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Indian Wells	-0.1	0.0	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Indio	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.3

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE II'		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lake Elsinore	-1.5	-0.6	-2.9	-2.0	-0.7	-4.2	-2.2	-0.7	-4.8
Lakeland Village	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Lakeview	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
La Quinta	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
March AFB	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.3
Mecca	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mira Loma	-3.2	-1.2	-6.0	-4.2	-1.4	-8.8	-4.6	-1.5	-10.1
Moreno Valley	-5.1	-1.9	-9.6	-6.8	-2.2	-14.2	-7.4	-2.4	-16.2
Murrieta	-0.6	-0.2	-1.2	-0.8	-0.3	-1.7	-0.9	-0.3	-2.0
Murrieta Hot Springs	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1
Norco	-4.3	-1.6	-8.0	-5.7	-1.8	-11.9	-6.2	-2.0	-13.6
Nuevo	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Palm Desert	-2.2	-0.8	-4.1	-2.9	-0.9	-6.0	-3.1	-1.0	-6.9
Palm Springs	-4.8	-1.8	-9.1	-6.4	-2.1	-13.4	-6.9	-2.3	-15.3
Pedley	-2.2	-0.8	-4.1	-2.9	-0.9	-6.1	-3.1	-1.0	-6.9
Perris	-1.3	-0.5	-2.5	-1.8	-0.6	-3.7	-1.9	-0.6	-4.2
Quail Valley	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Rancho Mirage	-0.8	-0.3	-1.5	-1.1	-0.3	-2.2	-1.2	-0.4	-2.6
Riverside	-34.5	-12.6	-64.9	-45.9	-14.8	-96.0	-49.7	-16.2	-109.3
Romoland	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Rubidoux	-2.7	-1.0	-5.1	-3.6	-1.2	-7.5	-3.9	-1.3	-8.6
San Jacinto	-0.3	-0.1	-0.6	-0.4	-0.1	-0.9	-0.5	-0.2	-1.0
Sedco Hills	-0.1	0.0	-0.2	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Sun City	-0.9	-0.3	-1.6	-1.1	-0.4	-2.4	-1.2	-0.4	-2.7
Sunnyslope	-0.2	-0.1	-0.4	-0.3	-0.1	-0.5	-0.3	-0.1	-0.6
Temecula	-0.6	-0.2	-1.2	-0.8	-0.3	-1.7	-0.9	-0.3	-2.0
Thousand Palms	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Valle Vista	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
Wildomar	-0.3	-0.1	-0.5	-0.4	-0.1	-0.8	-0.4	-0.1	-0.9
Winchester	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.2	-0.1	-0.4
Woodcrest	-0.6	-0.2	-1.2	-0.8	-0.3	-1.8	-0.9	-0.3	-2.0
Camajillo	-8.7	-3.2	-16.3	-11.5	-3.7	-24.1	-12.5	-4.1	-27.5
Casa Conejo	-1.0	-0.4	-1.8	-1.3	-0.4	-2.7	-1.4	-0.5	-3.1
Channel Islands Beach	-0.1	-0.1	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.5
El Rio	-0.4	-0.1	-0.7	-0.5	-0.2	-1.0	-0.5	-0.2	-1.1
Fillmore	-0.7	-0.2	-1.3	-0.9	-0.3	-1.9	-1.0	-0.3	-2.1
Meiners Oaks	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1
Mira Monte	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.3
Moorpark	-7.9	-2.9	-14.8	-10.4	-3.4	-21.8	-11.3	-3.7	-24.9
Oak Park	-0.4	-0.1	-0.8	-0.5	-0.2	-1.1	-0.6	-0.2	-1.3
Oak View	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Ojai	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.2
Oxnard	-4.8	-1.8	-9.0	-6.4	-2.1	-13.4	-6.9	-2.3	-15.2
Piru	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Port Hueneme	-0.5	-0.2	-0.9	-0.6	-0.2	-1.3	-0.7	-0.2	-1.5
San Buenaventura (Ventura)	-5.4	-2.0	-10.2	-7.2	-2.3	-15.0	-7.8	-2.5	-17.1
Santa Paula	-0.2	-0.1	-0.4	-0.3	-0.1	-0.6	-0.3	-0.1	-0.7
Simi Valley	-86.0	-31.3	-161.4	-114.6	-37.0	-239.9	-124.2	-40.6	-273.4
Thousand Oaks	-255.4	-92.0	-479.4	-341.2	-110.1	-714.0	-369.1	-120.7	-813.0
Adelanto	-3.6	-1.3	-6.8	-4.8	-1.5	-10.0	-5.2	-1.7	-11.4
Apple Valley	-2.4	-0.9	-4.5	-3.2	-1.0	-6.6	-3.4	-1.1	-7.5
Barstow	-0.5	-0.2	-0.9	-0.7	-0.2	-1.4	-0.7	-0.2	-1.6
Big Bear City	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Big Bear Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bloomington	-2.5	-0.9	-4.7	-3.3	-1.1	-6.9	-3.6	-1.2	-7.9
Chino	-92.3	-33.6	-173.4	-122.7	-39.6	-256.7	-132.7	-43.4	-292.2
Chino Hills	-52.3	-19.1	-98.3	-69.7	-22.5	-145.8	-75.4	-24.6	-165.9
Colton	-6.3	-2.3	-11.8	-8.4	-2.7	-17.5	-9.0	-3.0	-19.9
Crestline	-0.1	0.0	-0.2	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Fontana	-18.1	-6.6	-34.0	-24.0	-7.8	-50.3	-26.0	-8.5	-57.3
Grand Terrace	-5.2	-1.9	-9.7	-6.9	-2.2	-14.4	-7.4	-2.4	-16.4
Hesperia	-3.5	-1.3	-6.6	-4.7	-1.5	-9.8	-5.1	-1.7	-11.1
Highland	-1.4	-0.5	-2.6	-1.9	-0.6	-3.9	-2.0	-0.7	-4.4

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Joshua Tree	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Lake Arrowhead	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Lenwood	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loma Linda	-1.2	-0.4	-2.3	-1.6	-0.5	-3.4	-1.7	-0.6	-3.8
Mentone	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.5
Montclair	-261.6	-95.3	-491.3	-347.6	-112.3	-727.3	-376.1	-123.0	-828.1
Morongo Valley	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mountain View Acres	-1.2	-0.4	-2.3	-1.6	-0.5	-3.4	-1.7	-0.6	-3.8
Muscoy	-0.3	-0.1	-0.5	-0.4	-0.1	-0.8	-0.4	-0.1	-0.9
Nebo Center	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ontario	-148.3	-54.0	-278.6	-197.1	-63.7	-412.4	-213.3	-69.8	-469.6
Rancho Cucamonga	-40.7	-14.8	-76.5	-54.1	-17.5	-113.2	-58.5	-19.2	-128.9
Redlands	-6.0	-2.2	-11.2	-7.9	-2.6	-16.6	-8.6	-2.8	-18.8
Rialto	-6.7	-2.4	-12.5	-8.9	-2.9	-18.6	-9.6	-3.1	-21.1
Running Springs	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	-0.1
San Antonio Heights	-1.3	-0.5	-2.5	-1.7	-0.6	-3.6	-1.9	-0.6	-4.1
San Bernardino	-21.3	-7.8	-40.1	-28.3	-9.2	-59.3	-30.7	-10.0	-67.5
Twentynine Palms	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Twentynine Palms Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upland	-113.7	-41.4	-213.5	-151.1	-48.8	-316.1	-163.4	-53.5	-359.9
Victorville	-19.4	-7.1	-36.4	-25.8	-8.3	-53.9	-27.9	-9.1	-61.4
Wrightwood	-0.8	-0.3	-1.5	-1.0	-0.3	-2.1	-1.1	-0.4	-2.4
Yucaipa	-1.6	-0.6	-3.0	-2.1	-0.7	-4.4	-2.3	-0.7	-5.0
Yucca Valley	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
LOS ANGELES - UNINCOR	5,831.7	2,170.0	11,087.4	5,457.6	2,156.1	10,661.0	5,445.5	1,583.0	12,661.9
ORANGE - UNINCOR	-47.1	-17.2	-89.4	-63.7	-20.5	-133.5	-69.4	-22.7	-152.8
RIVERSIDE - UNINCOR	-15.7	-5.7	-29.5	-20.9	-6.7	-43.6	-22.6	-7.4	-49.7
SAN BERNARDINO - UNINCOR	-88.0	-32.1	-165.6	-117.0	-37.7	-244.8	-126.6	-41.3	-278.6
VENTURA - UNINCOR	-32.0	-10.8	-61.9	-44.3	-13.8	-93.4	-51.0	-16.7	-112.2
Total	-41,308	-14,654	-78,457	-49,943	-16,275	-102,579	-52,841	-17,358	-113,112

Table A27. Present Value of In at Net Impacts by Place by Scenario

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Action	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Agoura Hills	-11.2	-3.9	-21.4	-13.0	-4.2	-26.3	-13.5	-4.4	-28.4
Alhambra	-40.4	-13.9	-77.4	-44.6	-14.7	-89.7	-45.6	-15.1	-94.3
Alondra Park	-1.3	-0.4	-2.4	-1.3	-0.4	-2.6	-1.3	-0.4	-2.6
Altadena	-2.9	-0.9	-5.8	-2.1	-0.7	-3.6	-1.8	-0.6	-2.7
Arcadia	-44.2	-15.5	-84.4	-51.5	-16.9	-104.8	-53.5	-17.7	-112.9
Artesia	-7.9	-2.7	-15.1	-8.9	-2.9	-18.0	-9.2	-3.0	-19.1
Avocado Heights	-34.1	-12.1	-64.6	-41.3	-13.4	-85.0	-44.1	-14.5	-94.7
Azusa	-19.6	-6.9	-37.4	-22.8	-7.5	-46.5	-23.9	-7.9	-50.5
Baldwin Park	-21.6	-7.6	-41.3	-25.1	-8.2	-51.1	-26.3	-8.7	-55.5
Bell	-16.0	-5.6	-30.6	-18.1	-6.0	-36.7	-18.8	-6.2	-39.3
Bellflower	-13.8	-4.8	-26.5	-15.2	-5.0	-30.6	-15.6	-5.2	-32.2
Bell Gardens	-11.9	-4.2	-22.6	-14.4	-4.7	-29.6	-15.2	-5.0	-32.6
Beverly Hills	-92.0	-31.7	-176.7	-101.0	-33.3	-202.6	-103.1	-34.1	-212.3
Bradbury	-0.9	-0.3	-1.6	-1.1	-0.3	-2.2	-1.1	-0.4	-2.4
Burbank	-115.9	-40.7	-221.0	-135.3	-44.3	-275.7	-141.3	-46.6	-298.5
Calabasas	-7.3	-2.5	-14.1	-8.1	-2.7	-16.2	-8.3	-2.7	-17.1
Carson	-94.1	-32.7	-180.2	-105.9	-34.8	-214.1	-109.8	-36.3	-229.0
Cerritos	-38.2	-13.3	-73.0	-43.5	-14.3	-88.2	-45.1	-14.9	-94.3
Charter Oak	-1.4	-0.5	-2.7	-1.5	-0.5	-3.0	-1.5	-0.5	-3.1
Citrus	-0.9	-0.3	-1.7	-1.0	-0.3	-2.1	-1.1	-0.4	-2.3
Claremont	-6.3	-2.1	-12.5	-5.3	-1.8	-9.9	-4.9	-1.7	-8.8
Commerce	-98.7	-34.8	-187.9	-116.8	-38.2	-238.6	-122.5	-40.3	-260.0
Compton	-42.1	-14.7	-80.4	-48.1	-15.8	-97.6	-50.1	-16.5	-105.1
Covina	-22.2	-7.7	-42.5	-24.8	-8.2	-50.0	-25.5	-8.4	-53.0
Cudahy	-2.0	-0.7	-3.8	-2.2	-0.7	-4.4	-2.2	-0.7	-4.6
Culver City	-58.7	-20.6	-111.9	-68.5	-22.4	-139.6	-71.5	-23.6	-151.0
Del Aire	-3.4	-1.1	-6.7	-3.2	-1.1	-6.2	-3.1	-1.0	-5.9
Desert View Highlands	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Diamond Bar	-20.7	-7.2	-39.6	-23.8	-7.8	-48.2	-24.7	-8.2	-51.9
Downey	-30.5	-10.2	-59.3	-29.3	-9.8	-56.8	-28.7	-9.6	-55.7
Duarte	-4.5	-1.5	-8.7	-4.7	-1.6	-9.4	-4.8	-1.6	-9.6
East Compton	-0.1	0.0	-0.2	0.0	0.0	0.1	0.1	0.0	0.3
East La Mirada	-0.5	-0.2	-0.9	-0.5	-0.2	-1.1	-0.5	-0.2	-1.1
East Los Angeles	-36.0	-12.3	-69.3	-38.7	-12.8	-77.2	-39.2	-13.0	-79.9
East Pasadena	-1.9	-0.6	-3.7	-1.9	-0.6	-3.8	-1.9	-0.6	-3.8
East San Gabriel	-1.7	-0.6	-3.3	-2.0	-0.7	-4.1	-2.1	-0.7	-4.5
El Monte	-38.5	-13.2	-74.2	-41.4	-13.7	-82.7	-42.1	-14.0	-86.1
El Segundo	-62.2	-21.3	-119.7	-66.7	-22.0	-133.1	-67.5	-22.4	-137.5
Florence-Graham	-10.6	-3.7	-20.3	-11.8	-3.9	-23.9	-12.2	-4.0	-25.3
Gardena	-36.0	-12.6	-68.8	-41.7	-13.7	-84.8	-43.5	-14.4	-91.7
Glendale	-144.8	-50.8	-276.2	-169.3	-55.4	-344.8	-176.6	-58.2	-373.0
Glendora	-20.8	-7.2	-39.7	-23.7	-7.8	-48.0	-24.6	-8.1	-51.7
Hacienda Heights	-12.4	-4.3	-23.8	-13.8	-4.5	-27.8	-14.2	-4.7	-29.5
Hawaiian Gardens	-0.9	-0.3	-1.8	-1.0	-0.3	-1.9	-1.0	-0.3	-2.0
Hawthorne	-19.3	-6.6	-37.0	-20.7	-6.8	-41.5	-21.2	-7.0	-43.3
Hermosa Beach	-7.5	-2.6	-14.4	-8.1	-2.7	-16.3	-8.3	-2.7	-17.0
Hidden Hills	-2.3	-0.8	-4.5	-2.4	-0.8	-4.8	-2.4	-0.8	-4.9
Huntington Park	-15.9	-5.6	-30.5	-18.1	-5.9	-36.6	-18.7	-6.2	-39.1
Industry	-76.2	-26.8	-145.3	-89.1	-29.2	-181.7	-93.3	-30.7	-197.3
Inglewood	-38.4	-13.2	-73.8	-41.4	-13.7	-82.9	-42.3	-14.0	-86.7
Irwindale	-59.0	-20.9	-112.1	-71.1	-23.2	-145.8	-74.8	-24.6	-159.8
La Canada Flintridge	-13.4	-4.7	-25.6	-15.8	-5.2	-32.2	-16.5	-5.4	-34.9
La Crescenta-Montrose	-4.8	-1.7	-9.2	-5.3	-1.7	-10.7	-5.5	-1.8	-11.3
Ladera Heights	-4.7	-1.6	-9.0	-5.2	-1.7	-10.6	-5.4	-1.8	-11.2
La Habra Heights	-1.0	-0.3	-1.8	-1.1	-0.4	-2.2	-1.1	-0.4	-2.4
Lake Los Angeles	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Lakewood	-19.9	-7.0	-37.9	-23.0	-7.5	-46.8	-24.1	-7.9	-50.8
La Mirada	-29.9	-10.5	-57.0	-34.8	-11.4	-70.8	-36.3	-12.0	-76.7
Lancaster	-31.8	-11.0	-60.8	-35.7	-11.7	-72.2	-37.0	-12.2	-77.1
La Puente	-5.6	-2.0	-10.7	-6.6	-2.2	-13.4	-6.9	-2.3	-14.6
La Verne	-6.4	-2.2	-12.4	-6.8	-2.2	-13.5	-6.9	-2.3	-13.9
Lawndale	-5.7	-2.0	-11.0	-6.3	-2.1	-12.6	-6.4	-2.1	-13.3

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lennox	-3.7	-1.3	-7.1	-4.0	-1.3	-8.1	-4.2	-1.4	-8.6
Littlerock	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.2
Lomita	-5.3	-1.8	-10.2	-5.8	-1.9	-11.7	-6.0	-2.0	-12.3
Long Beach	-157.5	-53.8	-303.7	-165.3	-54.7	-328.3	-167.0	-55.5	-337.9
Los Angeles	-2,361.1	-819.7	-4,523.1	-2,642.1	-868.3	-5,331.9	-2,727.9	-901.7	-5,672.5
Lynwood	-9.7	-3.3	-18.7	-10.4	-3.4	-20.7	-10.5	-3.5	-21.3
Malibu	-3.7	-1.3	-7.1	-4.3	-1.4	-8.6	-4.4	-1.5	-9.3
Manhattan Beach	-11.5	-3.8	-22.2	-11.2	-3.8	-21.9	-11.0	-3.7	-21.5
Marina del Rey	-5.5	-1.8	-10.9	-4.5	-1.5	-8.2	-4.0	-1.4	-7.0
Mayflower Village	-0.4	-0.2	-0.8	-0.5	-0.2	-1.0	-0.5	-0.2	-1.0
Maywood	-6.0	-2.0	-11.6	-6.1	-2.0	-12.1	-6.1	-2.0	-12.3
Monrovia	-15.9	-5.4	-30.8	-16.2	-5.4	-31.9	-16.2	-5.4	-32.2
Montebello	-34.7	-12.2	-66.3	-40.3	-13.2	-81.9	-42.0	-13.8	-88.4
Monterey Park	-37.1	-13.0	-70.8	-43.4	-14.2	-88.5	-45.3	-14.9	-95.8
North El Monte	-1.1	-0.4	-2.2	-1.3	-0.4	-2.5	-1.3	-0.4	-2.7
Norwalk	-27.2	-9.5	-52.0	-31.1	-10.2	-63.2	-32.5	-10.7	-68.3
Palmdale	-21.6	-7.5	-41.4	-24.2	-7.9	-48.8	-25.1	-8.3	-52.2
Palos Verdes Estates	-6.1	-2.1	-11.7	-6.9	-2.3	-13.9	-7.1	-2.4	-14.9
Paramount	-24.1	-8.4	-46.1	-27.3	-9.0	-55.3	-28.3	-9.3	-59.0
Pasadena	-88.3	-29.4	-171.7	-84.0	-28.2	-162.6	-82.0	-27.5	-158.1
Pico Rivera	-14.6	-4.9	-28.2	-14.7	-4.9	-28.9	-14.7	-4.9	-29.1
Pomona	-53.3	-18.6	-101.9	-60.7	-19.9	-123.0	-63.1	-20.8	-132.2
Quartz Hill	-1.6	-0.5	-3.0	-1.7	-0.5	-3.3	-1.7	-0.6	-3.5
Rancho Palos Verdes	-8.2	-2.8	-15.8	-9.0	-3.0	-18.1	-9.2	-3.1	-19.0
Redondo Beach	-18.2	-6.1	-35.4	-17.4	-5.8	-33.8	-17.0	-5.7	-32.9
Rolling Hills	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Rolling Hills Estates	-3.3	-1.2	-6.4	-3.9	-1.3	-7.9	-4.0	-1.3	-8.5
Rosemead	-62.8	-22.4	-119.0	-76.9	-25.0	-158.6	-82.4	-27.1	-177.6
Rowland Heights	-17.1	-6.0	-32.6	-19.7	-6.5	-40.1	-20.5	-6.8	-43.2
San Dimas	-21.3	-7.4	-40.7	-24.4	-8.0	-49.6	-25.5	-8.4	-53.6
San Fernando	-17.5	-6.2	-33.3	-20.6	-6.7	-42.2	-21.7	-7.1	-46.1
San Gabriel	-13.0	-4.5	-24.8	-14.9	-4.9	-30.2	-15.4	-5.1	-32.4
San Marino	-9.9	-3.5	-18.9	-11.7	-3.8	-24.0	-12.2	-4.0	-25.9
Santa Clarita	-41.2	-14.4	-78.6	-47.4	-15.5	-96.4	-49.5	-16.3	-104.0
Santa Fe Springs	-86.2	-30.1	-164.6	-99.0	-32.5	-201.0	-103.0	-34.0	-216.2
Santa Monica	-79.9	-27.0	-154.7	-80.4	-26.7	-157.9	-80.0	-26.7	-158.6
Sierra Madre	-2.5	-0.9	-4.9	-2.6	-0.9	-5.1	-2.6	-0.9	-5.3
Signal Hill	-24.9	-8.7	-47.6	-28.1	-9.2	-56.7	-29.1	-9.6	-60.6
South El Monte	-26.7	-9.4	-50.9	-31.8	-10.4	-65.0	-33.3	-11.0	-70.8
South Gate	-26.5	-9.3	-50.5	-30.7	-10.1	-62.6	-32.1	-10.6	-67.8
South Pasadena	-12.6	-4.3	-24.1	-13.8	-4.5	-27.6	-14.0	-4.6	-28.8
South San Gabriel	-1.1	-0.4	-2.1	-1.1	-0.4	-2.1	-1.1	-0.4	-2.1
South San Jose Hills	-0.9	-0.3	-1.8	-1.0	-0.3	-2.1	-1.1	-0.3	-2.2
South Whittier	-6.9	-2.4	-13.3	-7.6	-2.5	-15.3	-7.9	-2.6	-16.2
Temple City	-8.2	-2.8	-15.6	-9.3	-3.0	-18.8	-9.6	-3.2	-20.0
Torrance	-118.0	-40.6	-226.9	-127.7	-42.2	-255.5	-129.9	-43.0	-266.0
Valinda	-1.6	-0.6	-3.1	-1.8	-0.6	-3.6	-1.9	-0.6	-3.9
Val Verde	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Vernon	-117.7	-41.7	-223.6	-141.8	-46.2	-290.7	-149.3	-49.1	-318.8
View Park-Windsor Hills	-1.9	-0.6	-3.8	-1.6	-0.6	-3.0	-1.5	-0.5	-2.7
Vincent	-2.7	-0.9	-5.2	-3.1	-1.0	-6.4	-3.3	-1.1	-6.8
Walnut	-8.0	-2.7	-15.3	-8.7	-2.9	-17.3	-8.8	-2.9	-18.0
Walnut Park	-1.2	-0.4	-2.4	-1.3	-0.4	-2.6	-1.3	-0.4	-2.7
West Athens	-2.7	-0.9	-5.1	-3.1	-1.0	-6.3	-3.2	-1.1	-6.8
West Carson	-4.8	-1.6	-9.5	-4.0	-1.4	-7.5	-3.7	-1.3	-6.5
West Compton	-18.5	-6.5	-35.2	-22.0	-7.2	-44.9	-23.1	-7.6	-49.1
West Covina	-25.1	-8.7	-48.1	-28.4	-9.3	-57.5	-29.4	-9.7	-61.3
West Hollywood	-16.7	-5.3	-33.1	-12.5	-4.3	-22.2	-10.8	-3.7	-17.2
Westlake Village	-2.7	-0.9	-5.1	-3.1	-1.0	-6.3	-3.2	-1.1	-6.8
Westmont	-1.5	-0.5	-2.9	-1.2	-0.4	-2.2	-1.1	-0.4	-1.9
West Puente Valley	-3.8	-1.3	-7.2	-4.4	-1.5	-9.1	-4.6	-1.5	-9.8
West Whittier-Los Nietos	-5.9	-2.1	-11.3	-6.9	-2.3	-14.1	-7.3	-2.4	-15.4
Whittier	-22.7	-7.9	-43.6	-24.9	-8.2	-50.1	-25.6	-8.5	-52.9
Willowbrook	-22.3	-7.9	-42.5	-26.3	-8.6	-53.9	-27.8	-9.1	-59.0

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Aliso Viejo	-10.2	-3.5	-19.5	-11.1	-3.7	-22.4	-11.4	-3.8	-23.6
Anaheim	-220.2	-76.7	-421.3	-249.2	-81.8	-504.3	-258.6	-85.4	-540.3
Brea	-45.9	-16.0	-87.6	-52.9	-17.3	-107.4	-54.9	-18.1	-115.4
Buena Park	-51.5	-18.1	-98.3	-59.7	-19.6	-121.6	-62.4	-20.6	-131.6
Costa Mesa	-99.3	-34.0	-191.3	-105.3	-34.8	-209.5	-106.4	-35.3	-216.2
Coto de Caza	-1.0	-0.3	-1.9	-1.1	-0.4	-2.3	-1.2	-0.4	-2.5
Cypress	-40.9	-14.3	-78.2	-47.1	-15.5	-95.7	-48.9	-16.1	-102.6
Dana Point	-15.8	-5.5	-30.3	-17.3	-5.7	-34.8	-17.9	-5.9	-36.9
Foothill Ranch	-0.5	-0.2	-1.0	-0.7	-0.2	-1.4	-0.7	-0.2	-1.5
Fountain Valley	-39.8	-13.9	-76.0	-46.0	-15.1	-93.4	-47.9	-15.8	-100.8
Fullerton	-69.3	-24.0	-133.0	-76.6	-25.2	-154.2	-78.7	-26.0	-162.7
Garden Grove	-67.3	-23.4	-128.7	-76.1	-25.0	-153.9	-78.9	-26.0	-164.7
Huntington Beach	-69.9	-24.1	-134.3	-76.6	-25.2	-153.8	-78.5	-26.0	-161.9
Irvine	-241.0	-82.9	-463.6	-259.7	-85.7	-519.3	-264.9	-87.8	-542.5
Laguna Beach	-21.0	-7.3	-40.2	-23.8	-7.8	-48.3	-24.8	-8.2	-51.8
Laguna Hills	-18.2	-6.3	-35.0	-20.3	-6.7	-40.9	-20.9	-6.9	-43.3
Laguna Niguel	-16.4	-5.7	-31.5	-18.4	-6.1	-37.2	-19.0	-6.3	-39.5
Laguna Woods	-12.7	-4.4	-24.2	-14.7	-4.8	-29.8	-15.2	-5.0	-32.1
La Habra	-65.7	-23.3	-124.6	-80.5	-26.2	-165.5	-84.8	-27.9	-182.0
Lake Forest	-33.1	-11.4	-63.5	-36.4	-12.0	-73.2	-37.4	-12.4	-77.1
La Palma	-16.4	-5.7	-31.4	-18.3	-6.0	-36.8	-18.7	-6.2	-38.6
Las Flores	-0.5	-0.2	-1.0	-0.6	-0.2	-1.2	-0.6	-0.2	-1.3
Los Alamitos	-25.8	-9.1	-49.2	-30.3	-9.9	-61.9	-31.7	-10.4	-67.1
Mission Viejo	-33.9	-11.8	-64.7	-38.9	-12.7	-78.9	-40.4	-13.3	-84.7
Newport Beach	-83.8	-28.5	-161.9	-86.4	-28.7	-170.7	-86.4	-28.8	-173.2
Newport Coast	-0.8	-0.3	-1.6	-0.9	-0.3	-1.8	-0.9	-0.3	-1.9
Orange	-121.1	-42.2	-231.6	-137.6	-45.2	-278.7	-142.7	-47.1	-298.3
Placentia	-21.7	-7.5	-41.6	-24.0	-7.9	-48.4	-24.8	-8.2	-51.3
Portola Hills	-0.2	-0.1	-0.4	-0.3	-0.1	-0.6	-0.3	-0.1	-0.7
Rancho Santa Margarita	-2.7	-0.9	-5.2	-3.1	-1.0	-6.3	-3.2	-1.1	-6.8
Rossmore	-2.9	-1.0	-5.6	-3.2	-1.1	-6.5	-3.3	-1.1	-6.8
San Clemente	-43.9	-15.4	-83.7	-51.1	-16.7	-104.0	-53.6	-17.7	-113.2
San Joaquin Hills	-0.1	0.0	-0.3	-0.1	0.0	-0.3	-0.1	0.0	-0.3
San Juan Capistrano	-33.0	-11.7	-62.7	-39.3	-12.8	-80.6	-41.6	-13.7	-88.7
Santa Ana	-223.8	-78.0	-428.2	-253.9	-83.3	-513.8	-262.8	-86.8	-549.0
Seal Beach	-4.3	-1.2	-8.8	-1.8	-0.7	-2.2	-0.9	-0.4	-0.7
Stanton	-10.7	-3.7	-20.5	-11.8	-3.9	-23.7	-12.1	-4.0	-24.9
Tustin	-64.5	-22.5	-123.3	-73.4	-24.1	-148.7	-76.1	-25.1	-159.3
Tustin Foothills	-7.7	-2.7	-14.8	-8.7	-2.9	-17.5	-8.9	-3.0	-18.6
Villa Park	-1.2	-0.4	-2.2	-1.3	-0.4	-2.6	-1.3	-0.4	-2.8
Westminster	-24.9	-8.6	-47.7	-27.3	-9.0	-54.8	-27.9	-9.2	-57.5
Yorba Linda	-19.9	-7.0	-37.8	-23.3	-7.6	-47.6	-24.4	-8.0	-51.7
Banning	-4.2	-1.5	-8.0	-4.7	-1.5	-9.6	-4.9	-1.6	-10.3
Beaumont	-3.0	-1.1	-5.8	-3.4	-1.1	-6.8	-3.5	-1.2	-7.2
Bermuda Dunes	-1.5	-0.5	-2.8	-1.7	-0.6	-3.6	-1.8	-0.6	-3.9
Cabazon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calimesa	-1.8	-0.6	-3.5	-2.0	-0.7	-4.1	-2.1	-0.7	-4.4
Canyon Lake	-0.4	-0.1	-0.7	-0.4	-0.1	-0.8	-0.4	-0.1	-0.8
Cathedral City	-10.6	-3.7	-20.5	-11.5	-3.8	-23.0	-11.8	-3.9	-24.2
Cherry Valley	-0.4	-0.1	-0.7	-0.4	-0.1	-0.8	-0.4	-0.1	-0.8
Coachella	-9.4	-3.3	-17.9	-11.4	-3.7	-23.4	-12.1	-4.0	-25.8
Corona	-55.5	-19.5	-105.7	-64.7	-21.1	-131.8	-67.8	-22.4	-143.4
Desert Hot Springs	-1.2	-0.4	-2.4	-1.2	-0.4	-2.4	-1.2	-0.4	-2.5
East Hemet	-1.6	-0.5	-3.0	-1.7	-0.6	-3.5	-1.8	-0.6	-3.7
El Cerrito	-0.9	-0.3	-1.7	-1.1	-0.4	-2.2	-1.1	-0.4	-2.4
Glen Avon	-7.9	-2.8	-15.0	-9.3	-3.0	-18.9	-9.7	-3.2	-20.6
Hemet	-17.1	-6.0	-32.7	-19.6	-6.4	-39.9	-20.5	-6.8	-43.1
Highgrove	-0.6	-0.2	-1.1	-0.6	-0.2	-1.2	-0.6	-0.2	-1.2
Home Gardens	-4.3	-1.5	-8.1	-5.2	-1.7	-10.7	-5.5	-1.8	-11.9
Homeland	-0.5	-0.2	-0.9	-0.6	-0.2	-1.3	-0.7	-0.2	-1.4
Idyllwild-Pine Cove	-0.1	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Indian Wells	-4.1	-1.3	-8.0	-3.2	-1.1	-5.9	-2.9	-1.0	-5.0
Indio	-15.9	-5.6	-30.3	-18.7	-6.1	-38.2	-19.6	-6.5	-41.6

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lake Elsinore	-8.5	-3.0	-16.3	-9.8	-3.2	-20.0	-10.3	-3.4	-21.6
Lakeland Village	-0.8	-0.3	-1.5	-0.9	-0.3	-2.0	-1.0	-0.3	-2.2
Lakeview	-0.8	-0.3	-1.4	-1.0	-0.3	-2.0	-1.0	-0.3	-2.2
La Quinta	-1.6	-0.5	-3.3	-0.7	-0.3	-0.9	-0.4	-0.2	0.1
March AFB	-0.4	-0.1	-0.8	-0.5	-0.2	-1.0	-0.5	-0.2	-1.0
Mecca	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	-0.1
Mira Loma	-1.9	-0.7	-3.7	-2.2	-0.7	-4.5	-2.3	-0.8	-4.9
Moreno Valley	-13.4	-4.6	-25.8	-14.6	-4.8	-29.2	-14.9	-4.9	-30.6
Murrieta	-11.5	-4.0	-22.0	-13.3	-4.3	-27.0	-13.8	-4.6	-29.1
Murrieta Hot Springs	-0.3	-0.1	-0.5	-0.3	-0.1	-0.6	-0.3	-0.1	-0.7
Norco	-4.4	-1.4	-8.6	-3.2	-1.1	-5.7	-2.8	-1.0	-4.6
Nuevo	-1.1	-0.4	-2.1	-1.4	-0.5	-2.9	-1.5	-0.5	-3.3
Palm Desert	-34.3	-12.0	-65.5	-39.7	-13.0	-80.7	-41.6	-13.7	-87.6
Palm Springs	-21.0	-7.1	-40.7	-20.8	-6.9	-40.8	-20.8	-6.9	-41.0
Pedley	-2.4	-0.8	-4.6	-2.7	-0.9	-5.6	-2.9	-0.9	-6.0
Perris	-5.6	-1.9	-10.8	-5.9	-2.0	-11.9	-6.1	-2.0	-12.3
Quail Valley	-0.1	0.0	-0.2	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Rancho Mirage	-2.7	-0.8	-5.5	-1.3	-0.5	-1.8	-0.8	-0.3	-0.1
Riverside	-128.5	-44.8	-245.7	-145.7	-47.8	-295.0	-151.2	-49.9	-316.3
Romoland	-0.2	0.0	-0.3	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Rubidoux	-3.2	-1.1	-6.0	-3.6	-1.2	-7.2	-3.7	-1.2	-7.7
San Jacinto	-6.2	-2.2	-11.9	-7.3	-2.4	-15.0	-7.7	-2.5	-16.3
Sedco Hills	-0.5	-0.2	-1.0	-0.5	-0.2	-1.0	-0.5	-0.2	-1.1
Sun City	-2.9	-1.0	-5.6	-3.6	-1.2	-7.3	-3.8	-1.2	-8.0
Sunnyslope	-0.6	-0.2	-1.1	-0.7	-0.2	-1.4	-0.7	-0.2	-1.5
Temecula	-25.5	-9.0	-48.7	-29.5	-9.7	-60.1	-30.9	-10.2	-65.1
Thousand Palms	-0.3	-0.1	-0.6	-0.3	-0.1	-0.6	-0.3	-0.1	-0.7
Valle Vista	-0.7	-0.2	-1.3	-0.8	-0.2	-1.5	-0.8	-0.3	-1.6
Wildomar	-2.1	-0.7	-4.0	-2.4	-0.8	-4.7	-2.4	-0.8	-5.1
Winchester	-0.9	-0.3	-1.7	-1.1	-0.4	-2.3	-1.2	-0.4	-2.5
Woodcrest	-1.7	-0.6	-3.4	-1.8	-0.6	-3.7	-1.9	-0.6	-3.8
Camarillo	-25.7	-8.9	-49.4	-28.1	-9.3	-56.3	-28.7	-9.5	-59.1
Casa Conejo	-0.9	-0.3	-1.7	-1.0	-0.3	-2.0	-1.0	-0.3	-2.1
Channel Islands Beach	-0.7	-0.3	-1.4	-0.8	-0.3	-1.7	-0.9	-0.3	-1.8
El Rio	-0.4	-0.1	-0.8	-0.4	-0.1	-0.8	-0.4	-0.1	-0.8
Fillmore	-1.8	-0.6	-3.5	-2.0	-0.6	-3.9	-2.0	-0.7	-4.1
Meiners Oaks	-0.6	-0.2	-1.2	-0.7	-0.2	-1.4	-0.7	-0.2	-1.4
Mira Monte	-1.0	-0.3	-1.9	-1.1	-0.4	-2.1	-1.1	-0.4	-2.2
Moorpark	-5.4	-1.9	-10.5	-5.9	-2.0	-11.8	-6.0	-2.0	-12.4
Oak Park	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Oak View	-0.3	-0.1	-0.5	-0.3	-0.1	-0.5	-0.3	-0.1	-0.5
Ojai	-1.3	-0.4	-2.5	-1.4	-0.4	-2.7	-1.4	-0.5	-2.7
Oxnard	-69.9	-24.4	-133.5	-80.0	-26.2	-162.3	-83.2	-27.4	-174.5
Piru	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Port Hueneme	-3.8	-1.3	-7.3	-4.3	-1.4	-8.6	-4.4	-1.5	-9.2
San Buenaventura (Ventura)	-63.5	-21.9	-121.9	-69.9	-23.0	-140.4	-71.7	-23.7	-148.0
Santa Paula	-12.6	-4.5	-24.0	-15.4	-5.0	-31.6	-16.2	-5.3	-34.8
Simi Valley	-38.5	-13.4	-73.7	-43.8	-14.4	-88.8	-45.6	-15.0	-95.4
Thousand Oaks	-91.9	-32.1	-175.7	-105.0	-34.4	-213.0	-109.2	-36.0	-228.9
Adelanto	-2.5	-0.8	-4.7	-2.5	-0.8	-5.1	-2.6	-0.9	-5.2
Apple Valley	-8.8	-3.1	-16.8	-10.3	-3.4	-20.9	-10.8	-3.6	-22.8
Barstow	-6.8	-2.3	-13.2	-7.1	-2.4	-14.2	-7.3	-2.4	-14.7
Big Bear City	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.5
Big Bear Lake	-5.3	-1.8	-10.2	-5.8	-1.9	-11.8	-6.0	-2.0	-12.5
Bloomington	-2.4	-0.8	-4.6	-2.5	-0.8	-5.0	-2.5	-0.8	-5.1
Chino	-37.1	-12.9	-71.0	-42.0	-13.8	-85.0	-43.6	-14.4	-91.0
Chino Hills	-6.1	-2.1	-11.7	-7.1	-2.3	-14.4	-7.4	-2.4	-15.6
Colton	-20.1	-7.0	-38.4	-22.6	-7.4	-45.8	-23.5	-7.8	-49.0
Crestline	-2.5	-0.9	-4.7	-2.9	-0.9	-5.9	-3.0	-1.0	-6.4
Fontana	-26.6	-9.2	-51.0	-29.5	-9.7	-59.5	-30.5	-10.1	-63.4
Grand Terrace	-2.6	-0.9	-5.0	-2.6	-0.9	-5.2	-2.7	-0.9	-5.3
Hesperia	-11.5	-4.0	-22.0	-12.9	-4.2	-26.1	-13.4	-4.4	-28.0
Highland	-10.5	-3.7	-19.9	-12.6	-4.1	-25.7	-13.2	-4.3	-28.1

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Joshua Tree	-0.1	0.0	-0.3	-0.2	-0.1	-0.3	-0.2	-0.1	-0.3
Lake Arrowhead	-1.7	-0.6	-3.3	-1.4	-0.5	-2.7	-1.3	-0.5	-2.4
Lenwood	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Loma Linda	-5.2	-1.8	-10.0	-5.9	-1.9	-12.0	-6.2	-2.0	-12.9
Mentone	-2.0	-0.7	-3.9	-2.4	-0.8	-5.0	-2.6	-0.8	-5.5
Montclair	-11.0	-3.8	-21.2	-12.1	-4.0	-24.3	-12.4	-4.1	-25.7
Morongo Valley	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Mountain View Acres	-0.3	-0.1	-0.5	-0.3	-0.1	-0.6	-0.3	-0.1	-0.7
Muscoy	-6.1	-2.2	-11.6	-7.4	-2.4	-15.3	-7.9	-2.6	-16.9
Nebo Center	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ontario	-99.8	-34.8	-190.9	-113.6	-37.3	-230.3	-118.2	-39.0	-247.5
Rancho Cucamonga	-56.2	-19.7	-107.4	-64.6	-21.2	-131.1	-67.3	-22.2	-141.4
Redlands	-21.0	-7.2	-40.4	-22.1	-7.3	-44.0	-22.4	-7.4	-45.5
Rialto	-15.2	-5.3	-29.1	-17.2	-5.6	-34.7	-17.8	-5.9	-37.2
Running Springs	0.2	0.1	0.3	0.4	0.1	0.9	0.5	0.2	1.2
San Antonio Heights	-0.5	-0.2	-1.0	-0.6	-0.2	-1.1	-0.6	-0.2	-1.2
San Bernardino	-85.8	-29.9	-164.2	-97.0	-31.8	-196.4	-100.8	-33.3	-210.7
Twentynine Palms	-1.8	-0.6	-3.5	-2.1	-0.7	-4.3	-2.2	-0.7	-4.7
Twentynine Palms Base	0.0	0.0	-0.1	0.0	0.0	-0.1	-0.1	0.0	-0.1
Upland	-28.7	-10.0	-54.8	-33.1	-10.8	-67.2	-34.5	-11.4	-72.5
Victoryville	-33.5	-11.8	-63.8	-39.4	-12.9	-80.6	-41.6	-13.7	-88.3
Wrightwood	0.2	0.1	0.3	0.6	0.2	1.3	0.7	0.2	1.7
Yucaipa	-7.9	-2.8	-15.0	-9.1	-3.0	-18.6	-9.6	-3.2	-20.2
Yucca Valley	-3.1	-1.1	-5.9	-3.4	-1.1	-6.9	-3.6	-1.2	-7.4
LOS ANGELES - UNINCOR	-202.5	-71.0	-386.4	-235.3	-77.0	-479.1	-245.9	-81.1	-518.7
ORANGE - UNINCOR	-70.2	-24.5	-134.2	-80.1	-26.3	-162.3	-83.0	-27.4	-173.9
RIVERSIDE - UNINCOR	-73.7	-25.9	-140.5	-86.0	-28.1	-175.3	-90.3	-29.7	-190.9
SAN BERNARDINO - UNINCOR	-96.7	-34.0	-184.1	-113.4	-37.1	-231.7	-119.4	-39.3	-253.1
VENTURA - UNINCOR	-124.5	-43.7	-237.4	-145.2	-47.5	-295.7	-151.7	-50.0	-320.3
Total	-9,048	-3,145	-17,326	-10,166	-3,340	-20,535	-10,509	-3,473	-21,886

Table A28. Present Value of Incurred Net Impacts by Place by Scenario

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Acton	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Agoura Hills	-11.5	-4.0	-22.0	-13.3	-4.4	-27.0	-13.8	-4.6	-29.0
Alhambra	-70.6	-24.7	-134.8	-81.3	-26.6	-165.1	-84.5	-27.9	-177.5
Alondra Park	-3.6	-1.3	-6.9	-4.2	-1.4	-8.5	-4.4	-1.4	-9.1
Altadena	-17.8	-6.2	-33.9	-20.5	-6.7	-41.5	-21.3	-7.0	-44.6
Arcadia	-65.1	-22.8	-124.4	-75.0	-24.6	-152.4	-77.9	-25.7	-163.7
Artesia	-29.9	-10.5	-57.2	-34.5	-11.3	-70.0	-35.8	-11.8	-75.2
Avocado Heights	-11.1	-3.9	-21.2	-12.8	-4.2	-25.9	-13.3	-4.4	-27.9
Azusa	-30.7	-10.8	-58.7	-35.4	-11.6	-71.9	-36.8	-12.1	-77.3
Baldwin Park	-33.2	-11.6	-63.5	-38.3	-12.5	-77.7	-39.8	-13.1	-83.6
Bell	-26.1	-9.1	-49.8	-30.0	-9.8	-61.0	-31.2	-10.3	-65.6
Bellflower	-51.4	-18.0	-98.2	-59.2	-19.4	-120.3	-61.5	-20.3	-129.2
Bell Gardens	-21.3	-7.5	-40.8	-24.6	-8.1	-49.9	-25.5	-8.4	-53.6
Beverly Hills	-99.2	-34.7	-189.5	-114.3	-37.4	-232.0	-118.7	-39.2	-249.3
Bradbury	-1.0	-0.4	-1.9	-1.2	-0.4	-2.4	-1.2	-0.4	-2.6
Burbank	-118.2	-41.3	-225.8	-136.1	-44.6	-276.4	-141.4	-46.7	-297.1
Calabasas	-3.9	-1.4	-7.5	-4.5	-1.5	-9.1	-4.7	-1.5	-9.8
Carson	-72.9	-25.5	-139.3	-84.0	-27.5	-170.6	-87.3	-28.8	-183.3
Cerritos	-68.1	-23.8	-130.1	-78.5	-25.7	-159.3	-81.5	-26.9	-171.2
Charter Oak	-6.4	-2.3	-12.3	-7.4	-2.4	-15.1	-7.7	-2.5	-16.2
Citrus	-3.7	-1.3	-7.1	-4.3	-1.4	-8.6	-4.4	-1.5	-9.3
Claremont	-35.5	-12.4	-67.7	-40.8	-13.4	-82.9	-42.4	-14.0	-89.1
Commerce	-34.7	-12.1	-66.3	-40.0	-13.1	-81.2	-41.5	-13.7	-87.2
Compton	-50.9	-17.8	-97.2	-58.6	-19.2	-119.0	-60.9	-20.1	-127.9
Covina	-56.2	-19.7	-107.4	-64.8	-21.2	-131.6	-67.3	-22.2	-141.4
Cudahy	-11.5	-4.0	-22.0	-13.3	-4.3	-26.9	-13.8	-4.5	-29.0
Culver City	-91.4	-32.0	-174.6	-105.3	-34.5	-213.7	-109.4	-36.1	-229.7
Del Aire	-8.7	-3.0	-16.6	-10.0	-3.3	-20.3	-10.4	-3.4	-21.8
Desert View Highlands	-0.7	-0.2	-1.3	-0.8	-0.2	-1.5	-0.8	-0.3	-1.6
Diamond Bar	-27.3	-9.6	-52.2	-31.5	-10.3	-64.0	-32.7	-10.8	-68.7
Downey	-81.1	-28.4	-154.9	-93.4	-30.6	-189.7	-97.1	-32.0	-203.9
Duarte	-17.4	-6.1	-33.3	-20.1	-6.6	-40.8	-20.9	-6.9	-43.8
East Compton	-1.9	-0.7	-3.6	-2.2	-0.7	-4.4	-2.3	-0.7	-4.8
East La Mirada	-4.4	-1.5	-8.4	-5.1	-1.7	-10.3	-5.3	-1.7	-11.0
East Los Angeles	-54.3	-19.0	-103.8	-62.6	-20.5	-127.1	-65.0	-21.5	-136.6
East Pasadena	-18.6	-6.5	-35.5	-21.4	-7.0	-43.4	-22.2	-7.3	-46.7
East San Gabriel	-11.5	-4.0	-22.0	-13.3	-4.3	-26.9	-13.8	-4.5	-29.0
El Monte	-78.3	-27.4	-149.6	-90.2	-29.6	-183.2	-93.7	-30.9	-196.8
El Segundo	-23.1	-8.1	-44.2	-26.7	-8.7	-54.1	-27.7	-9.1	-58.2
Florence-Graham	-18.3	-6.4	-34.9	-21.1	-6.9	-42.8	-21.9	-7.2	-46.0
Gardena	-58.4	-20.4	-111.5	-67.2	-22.0	-136.5	-69.8	-23.0	-146.7
Glendale	-219.7	-76.8	-419.7	-253.1	-82.9	-513.9	-262.9	-86.8	-552.3
Glendora	-42.2	-14.8	-80.7	-48.7	-15.9	-98.8	-50.5	-16.7	-106.2
Hacienda Heights	-27.5	-9.6	-52.6	-31.7	-10.4	-64.4	-32.9	-10.9	-69.2
Hawaiian Gardens	-8.8	-3.1	-16.7	-10.1	-3.3	-20.5	-10.5	-3.5	-22.0
Hawthorne	-57.6	-20.1	-110.1	-66.4	-21.8	-134.8	-68.9	-22.8	-144.8
Hermosa Beach	-28.6	-10.0	-54.6	-32.9	-10.8	-66.8	-34.2	-11.3	-71.8
Hidden Hills	-1.1	-0.4	-2.1	-1.2	-0.4	-2.5	-1.3	-0.4	-2.7
Huntington Park	-47.7	-16.7	-91.1	-54.9	-18.0	-111.5	-57.0	-18.8	-119.8
Industry	-77.2	-27.0	-147.4	-88.9	-29.1	-180.5	-92.4	-30.5	-194.0
Inglewood	-92.4	-32.3	-176.5	-106.4	-34.9	-216.1	-110.5	-36.5	-232.2
Inwindale	-2.4	-0.8	-4.5	-2.7	-0.9	-5.6	-2.8	-0.9	-6.0
La Canada Flintridge	-16.0	-5.6	-30.6	-18.5	-6.1	-37.5	-19.2	-6.3	-40.3
La Crescenta-Montrose	-12.9	-4.5	-24.6	-14.8	-4.9	-30.1	-15.4	-5.1	-32.3
Ladera Heights	-4.4	-1.5	-8.4	-5.1	-1.7	-10.3	-5.2	-1.7	-11.0
La Habra Heights	-4.3	-1.5	-8.3	-5.0	-1.6	-10.1	-5.2	-1.7	-10.9
Lake Los Angeles	-0.5	-0.2	-0.9	-0.5	-0.2	-1.1	-0.6	-0.2	-1.2
Lakewood	-77.8	-27.2	-148.6	-89.6	-29.4	-182.0	-93.1	-30.7	-195.6
La Mirada	-29.7	-10.4	-56.8	-34.3	-11.2	-69.6	-35.6	-11.7	-74.8
Lancaster	-71.2	-24.9	-135.9	-82.0	-26.9	-166.4	-85.2	-28.1	-178.9
La Puente	-19.8	-6.9	-37.8	-22.8	-7.5	-46.3	-23.7	-7.8	-49.8
La Verne	-24.2	-8.5	-46.2	-27.9	-9.1	-56.6	-28.9	-9.6	-60.8
Lawndale	-22.0	-7.7	-42.1	-25.4	-8.3	-51.5	-26.4	-8.7	-55.4

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lennox	-10.9	-3.8	-20.8	-12.6	-4.1	-25.5	-13.1	-4.3	-27.4
Little Rock	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.1	0.0	-0.3
Lomita	-20.0	-7.0	-38.3	-23.1	-7.6	-46.8	-24.0	-7.9	-50.3
Long Beach	-318.6	-111.4	-608.7	-367.1	-120.3	-745.3	-381.3	-125.8	-801.0
Los Angeles	-3,336.6	-1,166.7	-6,373.6	-3,843.7	-1,259.7	-7,804.3	-3,992.6	-1,317.5	-8,387.8
Lynwood	-25.4	-8.9	-48.5	-29.2	-9.6	-59.3	-30.4	-10.0	-63.8
Malibu	-5.6	-2.0	-10.8	-6.5	-2.1	-13.2	-6.7	-2.2	-14.2
Manhattan Beach	-48.5	-17.0	-92.7	-55.9	-18.3	-113.5	-58.1	-19.2	-122.0
Marina del Rey	-19.2	-6.7	-36.6	-22.1	-7.2	-44.9	-23.0	-7.6	-48.2
Mayflower Village	-1.8	-0.6	-3.4	-2.0	-0.7	-4.2	-2.1	-0.7	-4.5
Maywood	-14.5	-5.1	-27.6	-16.7	-5.5	-33.9	-17.3	-5.7	-36.4
Monrovia	-43.4	-15.2	-82.9	-50.0	-16.4	-101.6	-52.0	-17.1	-109.1
Montebello	-62.8	-22.0	-119.9	-72.3	-23.7	-146.8	-75.1	-24.8	-157.8
Monterey Park	-46.3	-16.2	-88.4	-53.3	-17.5	-108.2	-55.4	-18.3	-116.3
North El Monte	-1.5	-0.5	-2.8	-1.7	-0.6	-3.4	-1.8	-0.6	-3.7
Norwalk	-57.9	-20.2	-110.6	-66.7	-21.9	-135.4	-69.3	-22.9	-145.6
Palmdale	-54.7	-19.1	-104.5	-63.0	-20.6	-127.9	-65.4	-21.6	-137.5
Palos Verdes Estates	-3.7	-1.3	-7.1	-4.3	-1.4	-8.7	-4.5	-1.5	-9.4
Paramount	-27.0	-9.4	-51.6	-31.1	-10.2	-63.2	-32.3	-10.7	-67.9
Pasadena	-175.3	-61.3	-334.8	-201.9	-66.2	-409.9	-209.7	-69.2	-440.6
Pico Rivera	-38.9	-13.6	-74.4	-44.9	-14.7	-91.1	-46.6	-15.4	-97.9
Pomona	-98.3	-34.4	-187.7	-113.2	-37.1	-229.9	-117.6	-38.8	-247.1
Quartz Hill	-2.5	-0.9	-4.7	-2.8	-0.9	-5.8	-3.0	-1.0	-6.2
Rancho Palos Verdes	-22.1	-7.7	-42.3	-25.5	-8.4	-51.8	-26.5	-8.7	-55.6
Redondo Beach	-69.9	-24.5	-133.6	-80.6	-26.4	-163.6	-83.7	-27.6	-175.8
Rolling Hills	-0.5	-0.2	-0.9	-0.5	-0.2	-1.1	-0.6	-0.2	-1.2
Rolling Hills Estates	-6.8	-2.4	-13.0	-7.8	-2.6	-15.9	-8.1	-2.7	-17.1
Rosemead	-28.1	-9.8	-53.6	-32.3	-10.6	-65.7	-33.6	-11.1	-70.6
Rowland Heights	-39.2	-13.7	-74.8	-45.1	-14.8	-91.6	-46.9	-15.5	-98.5
San Dimas	-27.7	-9.7	-52.9	-31.9	-10.5	-64.8	-33.2	-10.9	-69.6
San Fernando	-28.0	-9.8	-53.5	-32.3	-10.6	-65.5	-33.5	-11.1	-70.4
San Gabriel	-36.9	-12.9	-70.4	-42.5	-13.9	-86.2	-44.1	-14.6	-92.7
San Marino	-7.0	-2.5	-13.4	-8.1	-2.6	-16.4	-8.4	-2.8	-17.6
Santa Clarita	-82.9	-29.0	-158.4	-95.5	-31.3	-193.9	-99.2	-32.7	-208.4
Santa Fe Springs	-26.5	-9.3	-50.7	-30.6	-10.0	-62.0	-31.7	-10.5	-66.7
Santa Monica	-177.0	-61.9	-338.2	-203.9	-66.8	-414.1	-211.8	-69.9	-445.0
Sierra Madre	-7.8	-2.7	-14.8	-8.9	-2.9	-18.2	-9.3	-3.1	-19.5
Signal Hill	-14.3	-5.0	-27.3	-16.5	-5.4	-33.4	-17.1	-5.6	-35.9
South El Monte	-10.4	-3.6	-19.9	-12.0	-3.9	-24.3	-12.5	-4.1	-26.2
South Gate	-49.1	-17.2	-93.7	-56.5	-18.5	-114.7	-58.7	-19.4	-123.3
South Pasadena	-24.1	-8.4	-46.0	-27.7	-9.1	-56.3	-28.8	-9.5	-60.5
South San Gabriel	-3.6	-1.3	-6.9	-4.2	-1.4	-8.5	-4.3	-1.4	-9.1
South San Jose Hills	-4.4	-1.6	-8.5	-5.1	-1.7	-10.4	-5.3	-1.8	-11.1
South Whittier	-22.6	-7.9	-43.2	-26.0	-8.5	-52.8	-27.0	-8.9	-56.8
Temple City	-26.1	-9.1	-49.8	-30.1	-9.8	-61.0	-31.2	-10.3	-65.6
Torrance	-207.1	-72.4	-395.6	-238.6	-78.2	-484.4	-247.8	-81.8	-520.6
Valinda	-9.5	-3.3	-18.1	-10.9	-3.6	-22.1	-11.3	-3.7	-23.8
Val Verde	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vernon	-14.0	-4.9	-26.8	-16.2	-5.3	-32.8	-16.8	-5.5	-35.3
View Park-Windsor Hills	-6.1	-2.1	-11.7	-7.1	-2.3	-14.4	-7.4	-2.4	-15.5
Vincent	-11.1	-3.9	-21.3	-12.8	-4.2	-26.0	-13.3	-4.4	-28.0
Walnut	-11.3	-3.9	-21.6	-13.0	-4.3	-26.4	-13.5	-4.5	-28.4
Walnut Park	-7.5	-2.6	-14.3	-8.6	-2.8	-17.5	-9.0	-3.0	-18.9
West Athens	-3.2	-1.1	-6.1	-3.7	-1.2	-7.4	-3.8	-1.3	-8.0
West Carson	-16.4	-5.7	-31.3	-18.9	-6.2	-38.3	-19.6	-6.5	-41.2
West Compton	-3.3	-1.2	-6.3	-3.8	-1.2	-7.7	-4.0	-1.3	-8.3
West Covina	-85.3	-29.8	-162.9	-98.2	-32.2	-199.4	-102.0	-33.7	-214.3
West Hollywood	-83.9	-29.4	-160.3	-95.7	-31.7	-196.3	-100.4	-33.1	-211.0
Westlake Village	-4.9	-1.7	-9.4	-5.7	-1.9	-11.5	-5.9	-1.9	-12.3
Westmont	-9.9	-3.4	-18.8	-11.3	-3.7	-23.0	-11.8	-3.9	-24.8
West Puente Valley	-3.9	-1.4	-7.4	-4.4	-1.5	-9.0	-4.6	-1.5	-9.7
West Whittier-Los Nietos	-12.9	-4.5	-24.6	-14.8	-4.9	-30.1	-15.4	-5.1	-32.4
Whittier	-67.5	-23.6	-128.8	-77.7	-25.5	-157.8	-80.7	-26.6	-169.6
Willowbrook	-10.9	-3.8	-20.7	-12.5	-4.1	-25.4	-13.0	-4.3	-27.3

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Aliso Viejo	-33.5	-11.7	-64.0	-38.6	-12.7	-78.4	-40.1	-13.2	-84.2
Anaheim	-242.9	-84.9	-463.9	-279.8	-91.7	-568.1	-290.6	-95.9	-610.5
Brea	-33.4	-11.7	-63.7	-38.4	-12.6	-78.0	-39.9	-13.2	-83.8
Buena Park	-60.7	-21.2	-116.0	-70.0	-22.9	-142.1	-72.7	-24.0	-152.7
Costa Mesa	-199.6	-69.8	-381.2	-229.9	-75.3	-466.8	-238.8	-78.8	-501.7
Coto de Caza	-4.7	-1.6	-8.9	-5.4	-1.8	-10.9	-5.6	-1.8	-11.7
Cypress	-44.5	-15.6	-85.0	-51.3	-16.8	-104.1	-53.3	-17.6	-111.9
Dana Point	-38.6	-13.5	-73.8	-44.5	-14.6	-90.4	-46.2	-15.3	-97.1
Foothill Ranch	-0.6	-0.2	-1.2	-0.7	-0.2	-1.5	-0.7	-0.2	-1.6
Fountain Valley	-66.3	-23.2	-126.6	-76.3	-25.0	-155.0	-79.3	-26.2	-166.6
Fullerton	-128.0	-44.8	-244.5	-147.4	-48.3	-299.4	-153.2	-50.5	-321.8
Garden Grove	-135.1	-47.2	-258.1	-155.7	-51.0	-316.0	-161.7	-53.4	-339.7
Huntington Beach	-196.8	-68.8	-375.9	-226.7	-74.3	-460.3	-235.5	-77.7	-494.7
Irvine	-94.6	-33.1	-180.8	-109.0	-35.7	-221.3	-113.2	-37.4	-237.9
Laguna Beach	-40.0	-14.0	-76.4	-46.1	-15.1	-93.5	-47.9	-15.8	-100.5
Laguna Hills	-37.5	-13.1	-71.6	-43.2	-14.1	-87.6	-44.8	-14.8	-94.2
Laguna Niguel	-63.6	-22.3	-121.6	-73.3	-24.0	-148.9	-76.2	-25.1	-160.0
Laguna Woods	-25.6	-8.9	-48.9	-29.5	-9.7	-59.9	-30.6	-10.1	-64.3
La Habra	-41.5	-14.5	-79.3	-47.8	-15.7	-97.1	-49.7	-16.4	-104.4
Lake Forest	-55.1	-19.3	-105.2	-63.5	-20.8	-128.9	-65.9	-21.8	-138.5
La Palma	-8.4	-2.9	-16.0	-9.6	-3.2	-19.6	-10.0	-3.3	-21.0
Las Flores	-1.5	-0.5	-2.9	-1.7	-0.6	-3.5	-1.8	-0.6	-3.8
Los Alamitos	-14.4	-5.1	-27.6	-16.6	-5.5	-33.8	-17.3	-5.7	-36.3
Mission Viejo	-76.0	-26.6	-145.2	-87.5	-28.7	-177.7	-90.9	-30.0	-191.0
Newport Beach	-150.4	-52.6	-287.3	-173.2	-56.8	-351.8	-180.0	-59.4	-378.1
Newport Coast	-4.0	-1.4	-7.7	-4.6	-1.5	-9.4	-4.8	-1.6	-10.1
Orange	-152.4	-53.3	-291.2	-175.6	-57.5	-356.5	-182.4	-60.2	-383.2
Placentia	-30.4	-10.6	-58.1	-35.0	-11.5	-71.1	-36.4	-12.0	-76.5
Portola Hills	-0.3	-0.1	-0.5	-0.3	-0.1	-0.6	-0.3	-0.1	-0.6
Rancho Santa Margarita	-15.5	-5.4	-29.5	-17.8	-5.8	-36.2	-18.5	-6.1	-38.9
Rossmore	-3.1	-1.1	-5.9	-3.6	-1.2	-7.3	-3.7	-1.2	-7.8
San Clemente	-45.9	-16.0	-87.6	-52.8	-17.3	-107.3	-54.9	-18.1	-115.3
San Joaquin Hills	-1.6	-0.6	-3.0	-1.8	-0.6	-3.7	-1.9	-0.6	-4.0
San Juan Capistrano	-35.0	-12.2	-66.8	-40.3	-13.2	-81.8	-41.8	-13.8	-87.9
Santa Ana	-238.8	-83.5	-456.2	-275.1	-90.2	-558.6	-285.8	-94.3	-600.3
Seal Beach	-22.4	-7.8	-42.7	-25.8	-8.4	-52.3	-26.8	-8.8	-56.2
Stanton	-25.7	-9.0	-49.0	-29.6	-9.7	-60.0	-30.7	-10.1	-64.5
Tustin	-79.6	-27.8	-152.0	-91.7	-30.1	-186.2	-95.2	-31.4	-200.1
Tustin Foothills	-11.0	-3.9	-21.1	-12.7	-4.2	-25.8	-13.2	-4.4	-27.7
Villa Park	-3.9	-1.4	-7.5	-4.5	-1.5	-9.2	-4.7	-1.5	-9.8
Westminster	-99.6	-34.8	-190.2	-114.7	-37.6	-232.9	-119.2	-39.3	-250.4
Yorba Linda	-31.7	-11.1	-60.6	-36.6	-12.0	-74.2	-38.0	-12.5	-79.8
Banning	-12.6	-4.4	-24.1	-14.6	-4.8	-29.6	-15.1	-5.0	-31.8
Beaumont	-7.7	-2.7	-14.8	-8.9	-2.9	-18.1	-9.3	-3.1	-19.5
Bermuda Dunes	-1.1	-0.4	-2.1	-1.3	-0.4	-2.6	-1.3	-0.4	-2.8
Cabazon	-0.7	-0.3	-1.4	-0.9	-0.3	-1.7	-0.9	-0.3	-1.9
Calimesa	-3.7	-1.3	-7.1	-4.3	-1.4	-8.7	-4.4	-1.5	-9.3
Canyon Lake	-1.4	-0.5	-2.7	-1.6	-0.5	-3.3	-1.7	-0.6	-3.6
Cathedral City	-35.2	-12.3	-67.2	-40.5	-13.3	-82.3	-42.1	-13.9	-88.4
Cherry Valley	-1.0	-0.4	-1.9	-1.2	-0.4	-2.4	-1.2	-0.4	-2.5
Coachella	-11.9	-4.2	-22.8	-13.7	-4.5	-27.9	-14.3	-4.7	-29.9
Corona	-77.9	-27.2	-148.8	-89.8	-29.4	-182.2	-93.2	-30.8	-185.9
Desert Hot Springs	-6.0	-2.1	-11.6	-7.0	-2.3	-14.1	-7.2	-2.4	-15.2
East Hemet	-11.1	-3.9	-21.1	-12.7	-4.2	-25.8	-13.2	-4.4	-27.8
El Cerrito	-1.1	-0.4	-2.2	-1.3	-0.4	-2.7	-1.4	-0.5	-2.9
Glen Avon	-9.0	-3.1	-17.1	-10.3	-3.4	-21.0	-10.7	-3.5	-22.5
Hemet	-50.2	-17.6	-95.9	-57.8	-19.0	-117.4	-60.1	-19.8	-126.2
Highgrove	-0.6	-0.2	-1.2	-0.7	-0.2	-1.5	-0.8	-0.2	-1.6
Home Gardens	-2.4	-0.8	-4.6	-2.8	-0.9	-5.6	-2.9	-0.9	-6.0
Homeland	-0.5	-0.2	-1.0	-0.6	-0.2	-1.3	-0.7	-0.2	-1.4
Idyllwild-Pine Cove	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Indian Wells	-6.6	-2.3	-12.6	-7.6	-2.5	-15.4	-7.9	-2.6	-16.6
Indio	-29.9	-10.4	-57.0	-34.4	-11.3	-69.8	-35.7	-11.8	-75.0

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Lake Elsinore	-22.2	-7.7	-42.3	-25.5	-8.4	-51.8	-26.5	-8.8	-55.7
Lakeland Village	-1.6	-0.6	-3.1	-1.8	-0.6	-3.7	-1.9	-0.6	-4.0
Lakeview	-0.5	-0.2	-0.9	-0.6	-0.2	-1.1	-0.6	-0.2	-1.2
La Quinta	-8.2	-2.9	-15.7	-9.5	-3.1	-19.2	-9.8	-3.2	-20.7
March AFB	-0.8	-0.3	-1.6	-1.0	-0.3	-2.0	-1.0	-0.3	-2.1
Mecca	-0.1	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	-0.1
Mira Loma	-8.4	-2.9	-16.1	-9.7	-3.2	-19.7	-10.1	-3.3	-21.2
Moreno Valley	-79.0	-27.6	-150.9	-91.0	-29.8	-184.8	-94.5	-31.2	-198.6
Murrieta	-10.6	-3.7	-20.3	-12.2	-4.0	-24.8	-12.7	-4.2	-26.7
Murrieta Hot Springs	-0.4	-0.1	-0.7	-0.4	-0.1	-0.9	-0.5	-0.2	-1.0
Norco	-15.8	-5.5	-30.2	-18.2	-6.0	-36.9	-18.9	-6.2	-39.7
Nuevo	-0.9	-0.3	-1.8	-1.1	-0.3	-2.1	-1.1	-0.4	-2.3
Palm Desert	-67.0	-23.4	-127.9	-77.1	-25.3	-156.6	-80.1	-26.4	-168.3
Palm Springs	-75.6	-26.4	-144.5	-87.1	-28.6	-176.9	-90.5	-29.9	-190.1
Pedley	-7.7	-2.7	-14.6	-8.8	-2.9	-17.9	-9.2	-3.0	-19.3
Perris	-23.0	-8.0	-43.9	-26.5	-8.7	-53.7	-27.5	-9.1	-57.7
Quail Valley	-0.4	-0.1	-0.8	-0.5	-0.2	-0.9	-0.5	-0.2	-1.0
Rancho Mirage	-22.1	-7.7	-42.2	-25.5	-8.3	-51.7	-26.5	-8.7	-55.6
Riverside	-264.3	-92.4	-504.8	-304.5	-99.8	-618.2	-316.2	-104.4	-664.4
Romoland	-1.1	-0.4	-2.2	-1.3	-0.4	-2.7	-1.4	-0.5	-2.9
Rubidoux	-11.3	-3.9	-21.5	-13.0	-4.3	-26.4	-13.5	-4.5	-28.4
San Jacinto	-10.3	-3.6	-19.7	-11.9	-3.9	-24.1	-12.3	-4.1	-25.9
Sedco Hills	-2.8	-1.0	-5.3	-3.2	-1.0	-6.5	-3.3	-1.1	-7.0
Sun City	-16.7	-5.8	-31.8	-19.2	-6.3	-39.0	-19.9	-6.6	-41.9
Sunnyslope	-0.6	-0.2	-1.1	-0.7	-0.2	-1.4	-0.7	-0.2	-1.5
Temecula	-29.1	-10.2	-55.6	-33.5	-11.0	-68.0	-34.8	-11.5	-73.1
Thousand Palms	-0.4	-0.2	-0.9	-0.5	-0.2	-1.0	-0.5	-0.2	-1.1
Valle Vista	-2.5	-0.9	-4.8	-2.9	-1.0	-5.9	-3.0	-1.0	-6.3
Wildomar	-6.1	-2.1	-11.7	-7.0	-2.3	-14.3	-7.3	-2.4	-15.3
Winchester	-2.0	-0.7	-3.9	-2.3	-0.8	-4.7	-2.4	-0.8	-5.1
Woodcrest	-6.2	-2.2	-11.8	-7.1	-2.3	-14.5	-7.4	-2.4	-15.6
Camarillo	-44.6	-15.6	-85.2	-51.4	-16.8	-104.3	-53.4	-17.6	-112.1
Casa Conejo	-1.8	-0.6	-3.4	-2.1	-0.7	-4.2	-2.1	-0.7	-4.5
Channel Islands Beach	-3.9	-1.4	-7.5	-4.5	-1.5	-9.2	-4.7	-1.5	-9.9
El Rio	-5.1	-1.8	-9.7	-5.9	-1.9	-11.9	-6.1	-2.0	-12.8
Fillmore	-3.5	-1.2	-6.6	-4.0	-1.3	-8.1	-4.2	-1.4	-8.7
Meiners Oaks	-2.2	-0.8	-4.2	-2.6	-0.8	-5.2	-2.7	-0.9	-5.6
Mira Monte	-6.3	-2.2	-12.1	-7.3	-2.4	-14.8	-7.6	-2.5	-15.9
Moorpark	-12.8	-4.5	-24.5	-14.7	-4.8	-29.9	-15.3	-5.1	-32.2
Oak Park	-0.1	0.0	-0.2	-0.1	0.0	-0.3	-0.2	0.0	-0.3
Oak View	-2.6	-0.9	-4.9	-3.0	-1.0	-6.1	-3.1	-1.0	-6.5
Ojai	-4.6	-1.6	-8.8	-5.3	-1.7	-10.8	-5.5	-1.8	-11.6
Oxnard	-110.4	-38.6	-210.8	-127.1	-41.7	-258.1	-132.1	-43.6	-277.4
Pinu	0.0	0.0	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.1
Port Hueneme	-14.5	-5.1	-27.8	-16.7	-5.5	-34.0	-17.4	-5.7	-36.5
San Buenaventura (Ventura)	-100.3	-35.1	-191.6	-115.6	-37.9	-234.6	-120.0	-39.6	-252.2
Santa Paula	-16.8	-5.9	-32.1	-19.3	-6.3	-39.3	-20.1	-6.6	-42.2
Simi Valley	-96.1	-33.6	-183.6	-110.7	-36.3	-224.8	-115.0	-38.0	-241.6
Thousand Oaks	-148.8	-52.0	-284.3	-171.5	-56.2	-348.2	-178.1	-58.8	-374.2
Adelanto	-3.6	-1.2	-6.8	-4.1	-1.3	-8.3	-4.3	-1.4	-8.9
Apple Valley	-23.2	-8.1	-44.3	-26.7	-8.8	-54.2	-27.8	-9.2	-58.3
Barstow	-12.6	-4.4	-24.1	-14.6	-4.8	-29.6	-15.1	-5.0	-31.8
Big Bear City	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4	-0.2	-0.1	-0.4
Big Bear Lake	-5.1	-1.8	-9.7	-5.9	-1.9	-11.9	-6.1	-2.0	-12.8
Bloomington	-10.3	-3.6	-19.6	-11.8	-3.9	-24.0	-12.3	-4.1	-25.8
Chino	-55.2	-19.3	-105.4	-63.6	-20.8	-129.1	-66.0	-21.8	-138.8
Chino Hills	-20.8	-7.3	-39.8	-24.0	-7.9	-48.7	-24.9	-8.2	-52.3
Colton	-41.2	-14.4	-78.7	-47.4	-15.5	-96.3	-49.3	-16.3	-103.5
Crestline	-1.3	-0.4	-2.4	-1.5	-0.5	-3.0	-1.5	-0.5	-3.2
Fontana	-76.4	-26.7	-145.9	-88.0	-28.8	-178.7	-91.4	-30.2	-192.0
Grand Terrace	-32.2	-11.2	-61.4	-37.0	-12.1	-75.2	-38.5	-12.7	-80.8
Hesperia	-28.2	-9.9	-53.8	-32.5	-10.6	-65.9	-33.7	-11.1	-70.8
Highland	-15.6	-5.4	-29.7	-17.9	-5.9	-36.4	-18.6	-6.1	-39.1

(Millions of \$ 1999)

City and CDP	CASE I			CASE II			CASE III		
	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III	Scenario I	Scenario II	Scenario III
Joshua Tree	-0.5	-0.2	-0.9	-0.6	-0.2	-1.1	-0.6	-0.2	-1.2
Lake Arrowhead	-0.9	-0.3	-1.7	-1.0	-0.3	-2.1	-1.1	-0.4	-2.2
Lenwood	-0.1	0.0	-0.2	-0.1	0.0	-0.2	-0.1	0.0	-0.3
Loma Linda	-9.4	-3.3	-18.0	-10.8	-3.6	-22.0	-11.3	-3.7	-23.6
Mentone	-0.8	-0.3	-1.6	-1.0	-0.3	-1.9	-1.0	-0.3	-2.1
Montclair	-77.3	-27.0	-147.6	-89.0	-29.2	-180.7	-92.4	-30.5	-194.2
Morongo Valley	-0.1	0.0	-0.1	-0.1	0.0	-0.2	-0.1	0.0	-0.2
Mountain View Acres	-3.3	-1.1	-6.2	-3.7	-1.2	-7.6	-3.9	-1.3	-8.2
Muscoy	-1.3	-0.4	-2.4	-1.5	-0.5	-2.9	-1.5	-0.5	-3.2
Nebo Center	-0.1	-0.1	-0.3	-0.2	-0.1	-0.3	-0.2	-0.1	-0.4
Ontario	-149.7	-52.3	-285.9	-172.4	-56.5	-350.1	-179.1	-59.1	-376.3
Rancho Cucamonga	-92.1	-32.2	-175.9	-106.1	-34.8	-215.4	-110.2	-36.4	-231.5
Redlands	-61.6	-21.6	-117.7	-71.0	-23.3	-144.2	-73.7	-24.3	-154.9
Rialto	-46.6	-16.3	-89.1	-53.7	-17.6	-109.1	-55.8	-18.4	-117.2
Running Springs	-0.2	-0.1	-0.4	-0.2	-0.1	-0.5	-0.2	-0.1	-0.5
San Antonio Heights	-0.7	-0.3	-1.4	-0.8	-0.3	-1.7	-0.9	-0.3	-1.8
San Bernardino	-173.5	-60.7	-331.4	-199.9	-65.5	-405.8	-207.6	-68.5	-436.2
Twentynine Palms	-7.1	-2.5	-13.5	-8.1	-2.7	-16.5	-8.4	-2.8	-17.8
Twentynine Palms Base	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upland	-73.0	-25.5	-139.4	-84.1	-27.5	-170.7	-87.3	-28.8	-183.4
Victorville	-64.9	-22.7	-124.1	-74.8	-24.5	-151.9	-77.7	-25.6	-163.3
Wrightwood	-0.5	-0.2	-0.9	-0.6	-0.2	-1.2	-0.6	-0.2	-1.2
Yucaipa	-18.6	-6.5	-35.5	-21.4	-7.0	-43.5	-22.3	-7.3	-46.8
Yucca Valley	-7.2	-2.5	-13.7	-8.3	-2.7	-16.8	-8.6	-2.8	-18.1
LOS ANGELES - UNINCOR	-157.2	-55.0	-300.2	-181.1	-59.3	-367.6	-188.1	-62.1	-395.1
ORANGE - UNINCOR	-95.2	-33.3	-181.8	-109.6	-35.9	-222.6	-113.9	-37.6	-239.3
RIVERSIDE - UNINCOR	-130.2	-45.5	-248.6	-149.9	-49.1	-304.4	-155.7	-51.4	-327.2
SAN BERNARDINO - UNINCOR	-129.4	-45.3	-247.2	-149.1	-48.9	-302.7	-154.9	-51.1	-325.4
VENTURA - UNINCOR	-91.1	-31.8	-174.0	-104.9	-34.4	-213.0	-109.0	-36.0	-229.0
Total	-13,870	-4,850	-26,495	-15,978	-5,236	-32,442	-16,597	-5,477	-34,868

Appendix B:
October 2002, Draft 303(d) Listings in Los Angeles Region

The LARWQCB 1998 303(d) list significantly follows the NRDC et al. EPA Consent Decree mandating the development of 92 TMDLs for about 550 water body-pollutant units. In the 2002 list draft, many of these units have been split into several contaminants units. Further, water bodies have been merged into a single reach designation, making direct numeric comparisons difficult. However, ignoring the splits and merges, about 70 of those units will be deleted from that list and nearly 100 added. Clearly, this list is in significant flux, and treatment solutions developed based on the 2002 303(d) list will need to be adaptive to the addition of new and potentially difficult to treat contaminants. The middle two columns of Table B.1 were converted from the October 2002 303(d) list. The left column is a numeric list and the right column identifies that level of water treatment that is correlated with the pollutants in the adjacent column that are identified in bold text. Most discharges to the ocean require at least level II treatment and most inland discharges need level III advanced treatment.

- "BMP" indicates that Best Management Practices may be sufficient to reach water quality objectives,
- "Legacy" indicates that any discharge is from a historic source such as sediments
- "Level I" is lower cost physical treatment
- "Level II" is a disinfection treatment (ozone or UV light since chlorination may form other prohibited compounds), with level I pretreatment; and
- "Level III" is an expensive advanced treatment such as reverse osmosis, denitrification, ion exchange, or granulated active carbon, with level I and II pretreatment.

Table B.1: October 2002, Draft 303(d) Listings in the Los Angeles Region

Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
1	Abalone Cove Beach	Beach Closures, DDT ^S , PCBs ^F	Level II
2	Aliso Canyon Wash	Se	Level III
3	Amarillo Beach	DDT ^F , PCBs ^F	Legacy
4	Arroyo Seco Reach 1	Algae, Coliform, Trash	Level III
5	Arroyo Seco Reach 2	Algae, Coliform, Trash	Level III
6	Ashland Avenue Drain	Coliform, Low DO, Toxicity	Level III
7	Avalon Beach	Bacteria	Level II
8	Ballona Creek	Cd ^S , ChemA, Chlordane, Cu, DDT, Dieldrin, Virus, Coliform, Pb, PCBs, pH, Toxicity ^S , Se, Ag ^S Toxicity, Zinc	Level III
9	Ballona Creek Estuary	Chlordane ^S , DDT ^S , Coliform, Pb ^S , PAHs ^S , PCBs ^S , Toxicity ^S , Shellfish Zn ^S	Level III
10	Ballona Creek Wetlands	Exotics, Altered Habitat, Hydromod., Reduced Tidal, Trash	Level I
11	Bell Creek	Coliform	Level II
12	Big Rock Beach	Beach Closures, DDT ^F , Coliform, PCBs ^F	Level II
13	Bluff Cove Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
14	Brown Barranca/Long Cyn	Nitrate, Nitrite	Level III
15	Burbank Western Channel	Algae, NH ₃ , Cd, Odors, Scum, Trash	Level III
16	Cabrillo Beach (Inner)	Beach Closures, DDT ^F , PCBs ^F	Level II
17	Cabrillo Beach (Outer)	Beach Closures, DDT ^F , Coliform, PCBs ^F	Level II
18	Calleguas Creek Reach 1	Chlordane, Cu, DDT ^S , Endosulfan, Hg, Ni, Nitrogen, PCBs, Toxicity ^S , Sedimentation, Zinc	Level III
19	Calleguas Creek Reach 2	NH ₃ , ChemA, Chlordane, Cu, DDT ^S , Endosulfan, Fecal Coliform, Nitrogen, PCBs, Toxicity ^S , Sedimentation, Toxaphene ^S	Level III
20	Calleguas Creek Reach 3	Cl, NO ₂ , NO ₃ , Sedimentation, TDS	Level III
21	Calleguas Creek Reach 4	Algae, ChemA, Chlordane ^S , DDT ^S , Chlorpyrifos, Endosulfan ^S , Dieldrin, Fecal Coliform, NO ₂ , NO ₃ , Nitrogen, PCBs, Se, Sedimentation, Toxaphene ^S , Toxicity, Trash	Level III

^S=Sediments

^F=Fish Advisory (Normally due to legacy pollutants, requiring sediment treatment).

Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
22	Calleguas Creek Reach 5	Algae, Chema, Chlordane ^S , Chlorpyrifos, Dacthal ^S , DDT ^S , Dieldrin, Endosulfan ^S , Nitrogen, PCBs, Sedimentation, Toxaphene ^S , Toxicity, Trash	Level III
23	Calleguas Creek Reach 6	NH ₃ , Cl, DDT ^S , Fecal Coliform, NO ₂ , NO ₃ , Sedimentation, Sulfates, TDS	Level III
24	Calleguas Creek Reach 7	NH ₃ , B, Cl, Fecal Coliform, OP Pesticides, Sedimentation, Sulfates, TDS	Level III
25	Calleguas Creek Reach 8	B, Cl, Sedimentation, Sulfates, TDS	Level III
26	Calleguas Creek Reach 9A	Algae, Chema, DDT, Endosulfan, Fecal Coliform, NO ₂ , NO ₃ , Sedimentation, Sulfates, TDS, Toxaphene ^S	Level III
26	Calleguas Creek Reach 9B	Algae, NH ₃ , Chema, Cl, DDT, Endosulfan, Fecal Coliform, Sedimentation, Sulfates, TDS, Toxaphene ^S , Toxicity	Level III
27	Calleguas Creek Reach 10	Algae, NH ₃ , Chema, Cl, DDT, Endosulfan, Fecal Coliform, NO ₂ , Sedimentation, Sulfates, TDS, Toxaphene ^S , Toxicity	Level III
28	Calleguas Creek Reach 11	Algae, NH ₃ , Chema, Cl, DDT, Endosulfan, Fecal Coliform, Sedimentation, Sulfates, TDS, Toxaphene ^S , Toxicity	Level III
29	Calleguas Creek Reach 12	NH ₃ , Chlordane, DDT, Sedimentation, Sulfates, TDS	Level III
30	Calleguas Creek Reach 13	Algae, NH ₃ , Chema, Chlordane, Cl, DDT, Dieldrin, Endosulfan, HCH, PCBs, Sedimentation, Sulfates, TDS, Toxaphene ^S , Toxicity	Level III
31	Canada Larga (Ventura R)	Fecal Coliform, Low DO	Level II
32	Carbon Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
33	Castlerock Beach	Bacteria, Beach Closures, DDT ^F , PCBs ^F	Level II
34	Channel Islands Harbor	Pb ^S , Zn ^S	Legacy
35	Channel Ilds Harbor Beach	Bacteria	Level II
36	Colorado Lagoon	Chlordane ^S , DDT, Dieldrin, Pb ^S , PAHs ^S , PCBs, Toxicity ^S , Zn ^S	Level III

^S=Sediments

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Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
37	Compton Creek	Cu, Coliform, Pb, pH,	Level III
38	Coyote Creek	Fish Histology, Algae, Cu, Coliform, Pb, Se, Zn	Level III
39	Crystal Lake	Low Do	BMP / Level I
40	Dan Blocker Beach	Coliform	Level II
41	Dockweiler Beach	Beach Closures, Coliform	Level II
42	Dominguez Channel >VT	Aldrin, NH ₃ , Chema, Chlordane, Cr ^S , Cu, DDT ^S , Dieldrin, Coliform, Pb, PAHs ^S , PCBs, Zn ^S	Level III
43	Dominguez Channel <VT	Aldrin, NH ₃ , Benthic, Chema, Chlordane, Cr ^S , Cu, DDT ^S , Dieldrin, Coliform, Pb, PAHs ^S , PCBs, Zn ^S	Level III
44	Dry Canyon Creek	Fecal Coliform, Se	Level III
45	Duck Pond/Mugu Drain	Chema, Chlordane, DDT ^S , Nitrogen, Toxicity ^S , Toxaphene	Level III
46	Echo Park Lake	Algae, NH ₃ , Cu, Eutrophic, Pb, Odors, PCBs, pH	Level III
47	El Dorado Lakes	Algae, NH ₃ , Cu, Eutrophic, Pb, Hg, pH	Level III
48	Elizabeth Lake	Eutrophic, Low DO, pH, Trash	Level III/I
49	Escondido Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
50	Flat Rock Point Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
51	Fox Barranca	B, NO ₂ , NO ₃ , Sulfates, TDS	Level III
52	Hermosa Beach	Beach Closures	Level II
53	Hobie Beach	Bacteria	Level II
54	Hopper Creek	Sulfates, TDS	Level III
55	Inspiration Point Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
56	La Costa Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
57	Lake Calabasas	NH ₃ , DDT, Eutrophic, Odors, Low DO, pH	Level III
58	Lake Hughes	Algae, Eutrophic, Fish Kills, Odors, Trash	Level III
59	Lake Lindero	Algae, Cl, Eutrophic, Odors, EC(TDS), Trash	Level III
60	Lake Sherwood	Algae, NH ₃ , Eutrophic, Hg, Low DO	Level III
61	Las Flores Beach	Coliform, DDT ^F , PCBs ^F	Level II
62	Las Tunas Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
63	Las Virgenes Creek	Coliforms, Nutrients (Algae), Low DO, Scum, Sedimentation, Se, Trash	Level III

^S=Sediments

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Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
64	Legg Lake	NH ₃ , Cu, Pb, Odors, pH, Trash	Level III
65	Leo Carillo Beach	Beach Closures, Coliform	Level II
66	Lincoln Park Lake	NH ₃ , Eutrophic, Pb, Odors, Low DO	Level III
67	Lindero Creek Reach 1	Algae, Coliform, Scum, Se, Trash	Level III
68	Lindero Creek Reach 2	Algae, Coliform, Scum, Se, Trash	Level III
69	Long Beach Harbor	Benthic, DDT ^F , PAHs ^S , PCBs ^F , Toxicity ^S	Legacy or Level III
70	Long Point Beach	Coliform, DDT ^F , PCBs ^F	Level II
71	Los Angeles Fish Harbor	DDT, PAHs, PCBs	Legacy or Level III
72	LA Hbr Consolidated Slip	Benthic, Cd ^S , Chlorodane ^S , Cr ^S , Cu ^S , DDT ^F , Dieldrin ^S , Pb ^S , Hg ^S , PAHs ^S , PCBs ^F , Toxicity ^S , Zn ^S	Legacy or Level III
73	LA Hbr Inner Breakwater	DDT, PAHs, PCBs	Legacy or Level III
74	LA Hbr Main Channel	Beach Closures, Cu ^S , DDT ^F , PAHs ^S , PCBs ^F , Toxicity ^S , Zn ^S	Level II
75	LA Hbr Southwest Slip	DDT ^F , PCBs ^F , Toxicity ^S	Legacy
76	LA River Estuary	Chlorodane ^S , DDT ^S , Pb ^S , PCBs ^S , Zn ^S	Legacy
77	LA River Reach 1	Al, NH ₃ , Cd, Cu, Coliform, Pb, Nutrients (Algae), pH, Scum, Zn	Level III
78	LA River Reach 2	NH ₃ , Coliform, Pb, Nutrients (Algae), Odors, Oil, Scum	Level III
79	LA River Reach 3	NH ₃ , Nutrients (Algae), Odors, Scum	Level III
80	LA River Reach 4	NH ₃ , Coliform, Pb, Nutrients (Algae), Odors, Scum	Level III
81	LA River Reach 5	NH ₃ , ChemA, Nutrients (Algae), Odors, Oil, Scum	Level III
82	LA River Reach 6	1,1-DCE, Coliform, PCE, TCE	Level III
83	Los Cerritos Channel	NH ₃ , Chlordane ^S , Cu, Coliform, Pb, Zn	Level III
84	Lunda Bay Beach	Beach Closures	Level II
85	Machado Lake (Harbor L)	Algae, NH ₃ , ChemA, Chlordane, DDT, Dieldrin, Eutrophic, Odors, PCBs, Trash	Level III
86	Malaga Cove Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
87	Malibou Lake	Algae, Chlordane, Eutrophic, Low DO, PCBs	Level III
88	Malibu Beach	Beach Closures, DDT ^F	Level II

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Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
89	Malibu Creek	Barriers, Coliform, Nutrients (Algae), Scum, Sedimentation, Trash	Level III
90	Malibu Lagoon	Benthic, Virus, Eutrophic, Coliform, pH, Shellfish, REC1	Level III or Level II
91	Malibu Lagoon Beach	Beach Closures, DDT ^F , Coliform, PCBs ^F	Level II
92	Manhattan Beach	Beach Closures	Level II
93	Marina del Rey Basins	Chlordane ^S , Cu ^S , DDT ^S , Dieldrin, Fish Consumption, Coliform, Pb ^S , PCBs ^S , Toxicity ^S , Zn ^S	Level III
94	Marina del Rey Beach	Beach Closures, Coliform	Level II
95	Matilija Creek Reach 1	Barriers	BMP
96	Matilija Creek Reach 2	Barriers	BMP
97	Matilija Reservoir	Barriers	BMP
98	McCoy Canyon Creek	Fecal Coliform, NO ₃ , Se	Level III
99	McGrath Beach	Coliform	Level II
100	McGrath Lake	Chlordane ^S , DDT ^S , Dieldrin ^S , PCBs ^S , Toxicity ^S	Legacy
101	Medea Creek Reach 1	Algae, Coliform, Sedimentation, Se, Trash	Level III
102	Medea Creek Reach 2	Algae, Coliform, Sedimentation, Se, Trash	Level III
103	Mint Canyon Reach 1	NO ₂ , NO ₃	Level III
104	Monrovia Canyon Lake	Pb	Level II or Level III
105	Munz Lake	Eutrophic, Trash	Level III
106	Nicholas Canyon Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
107	Ormond Beach	Bacteria	Level II
108	Palo Comado Creek	Coliform	Level II
109	Palo Verde Shoreline Bch	Pathogens, Pesticides	Level III
110	Paradise Cove Beach	Beach Closures, DDT ^F , Coliform, PCBs ^F	Level II
111	Peck Road Park Lake	Chlordane, DDT, Pb, Odors, Low DO	Level III
112	Peninsula Beach	Bacteria	Level II
113	Pico Kenter Drain	NH ₃ , Cu, Virus, Coliform, Pb, PAHs, Toxicity, Trash	Level III
114	Piru Creek	PH	Level I
115	Point Dune Beach	Beach Closures, DDT ^F , PCBs ^F	Level II

^S=Sediments.

^F=Fish Advisory (Normally due to legacy pollutants, requiring sediment treatment).

Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
116	Point Fermin Park Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
117	Point Vicente Beach	Beach Closures	Level II
118	Pole Creek	Sulfates, TDS	Level III
119	Port Hueneme (Back)	DDT, PCBs	Level III
120	Portugese Bend Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
121	Promenade Park Beach	Bacteria	Level II
122	Puddingstone Reservoir	Chlordane, DDT, Hg, Low DO, PCBs	Level III
123	Puerco Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
124	Redondo Beach	Beach Closures, DDT ^F , Coliform, PCBs ^F	Level II
125	Resort Point Beach	Beach Closures	Level II
126	Rincon Beach	Bacteria	Level II
127	Rio De Santa Clara	ChemA, Chlordane, DDT, Nitrogen, PCBs, Toxicity ^S , Toxaphene	Level III
128	Rio Hondo Reach 1	Cu, Coliform, Pb, pH, Trash, Toxaphene	Level III
129	Rio Hondo Reach 2	Coliform	Level II
130	Robert H. Myer Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
131	Rocky Point Beach	Beach Closures	Level II
132	Royal Palms Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
133	San Antonio Creek	Nitrogen	Level III
134	San Buenaventure Beach	Bacteria	Level II
135	San Gabriel River Estuary	Fish Histology	Level III
136	San Gabriel River Reach 1	Fish Histology, Algae, Coliform	Level III
137	San Gabriel River Reach 2	Cu, Coliform, Pb, Zn	Level III
138	San Jose Creek Reach 1	Algae, Coliform, pH	Level III
139	San Jose Creek Reach 2	Algae, Coliform, pH	Level III
140	San Pedro Bay	Cr ^S , Cu ^S , DDT ^F , PAH ^S , PCBs ^F , Toxicity ^S , Zn ^S	Legacy
141	Santa Clara River Estuary	ChemA, Coliform, Toxaphene	Level III
142	Santa Clara River Reach 3	NH ₃ , Cl, TDS	Level III
143	Santa Clara River Reach 7	Cl, Coliform, NO ₂ , NO ₃	Level III
144	Santa Clara River Reach 8	Cl, Coliform, NO ₂	Level III

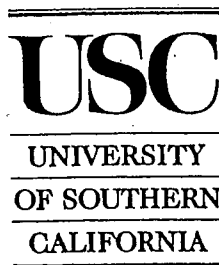
^S=Sediments

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Item #	Water Body Name	303(d) Listed Pollutant/Stressor	Treatment
145	Santa Clara River Reach 9	Coliform	Level II
146	Santa Fe Dam Park Lake	Cu, Pb, pH	Level III
147	Santa Monica Bay	Chlordane ^S , DDT ^S , Debris, PAHs ^S , PCBs ^S , Fish Consumption, Toxicity ^S	Legacy
148	Santa Monica Beach	Beach Closures, Coliform	Level II
149	Santa Monica Canyon	Coliform, Pb	Level III
150	Sea Level Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
151	Sepulveda Canyon	NH ₃ , Coliform, Pb	Level III
152	Sespe Creek	Cl, pH	Level III
153	Stokes Creek	Coliform	Level II
154	Surfers Point at Seaside	Bacteria	Level II
155	Topanga Beach	Beach Closures, DDT ^F , Coliform PCBs ^F	Level II
156	Topanga Canyon Creek	Pb	Level III
157	Torrance Beach	Beach Closures, Coliform	Level II
158	Torrance Carson Channel	Cu, Coliform, Pb	Level III
159	Torrey Canyon Creek	NO ₂ , NO ₃	Level III
160	Trancas (Broad) Beach	Beach Closures, DDT ^F , Coliform PCBs ^F	Level II
161	Triunfo Cyn Crk Reach 1	Pb, Hg, Sedimentation	Level III
162	Triunfo Cyn Crk Reach 2	Pb, Hg, Sedimentation	Level III
163	Tujunga Wash	NH ₃ , Cu, Coliform, Odors, Scum, Trash	Level III
164	Venice Beach	Beach Closures, Coliform	Level II
165	Ventura (Harbor) Keys	Coliform	Level II
166	Ventura River Estuary	Algae, Eutrophic, Coliform, Fecal Coliform, Trash	Level III
167	Ventura Reach 1 & 2	Algae	Level III
168	Verdugo Wash Reach 2	Algae, Coliform, Trash	Level III
169	Walnut Creek Wash	pH, Toxicity	Level III
170	Westlake Lake	Algae, NH ₃ , Chlordane, Eutrophic, Pb, Low DO	Level III
171	Wheeler Canyon (Todd B)	NO ₂ , NO ₃ , Sulfates, TDS	Level III
172	Whites Point Beach	Beach Closures, DDT ^F , PCBs ^F	Level II
173	Will Rogers Beach	Beach Closures, Coliform	Level II
174	Wilmington Drain	NH ₃ , Cu, Coliform, Pb	Level III
175	Zuma Beach	Beach Closures, DDT ^F , PCBs ^F	Level II

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