



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Office of the General Manager

September 4, 2012

Director Lynne Heidel
Director Keith Lewinger
Director Fern Steiner
Director Doug Wilson
San Diego County Water Authority
4766 Overland Avenue
San Diego, CA 92123

Dear Directors:

Comments on Appendix A to Remarketing Statement and Official Statement

Chairman Foley has asked me to respond to your comments to the draft Remarketing Statement for Metropolitan's Water Revenue Refunding Bonds, 2009 Series A-1 and Official Statement for Metropolitan's Water Revenue Refunding Bonds, 2012 Series F, received early on August 20, 2012.

At the Finance and Insurance Committee meeting on August 20, we committed to take your comments and any other comments into account in finalizing the offering statements, and we have done so. The Appendix A to Metropolitan's Remarketing and Official Statements is marked to show changes from the August 7, 2012 draft provided to the Board. Many of the changes were included to respond to comments in your August 20 letter.

We appreciate your comments on Appendix A. Board review of Appendix A is an essential component of Metropolitan's process to assure that Remarketing Statements and Official Statements for our financings are up to date and accurately reflect disclosure of material facts relevant to Metropolitan's financial position. Staff has considered these comments and prior comments, in consultation with bond counsel and the financing team, and in each instance made

SDCWA Directors

September 4, 2012

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every effort to confirm facts based on the totality of information then available and refined each Remarketing Statement and Official Statement, then being considered, in response to comments from members of the Board.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Breaux". The signature is stylized and cursive.

Gary Breaux

Assistant General Manager/Chief Financial Officer

cc: Board of Directors
S. Bennion
C. Dunn
J. Kightlinger
K. Norris
M. Scully

APPENDIX A

The Metropolitan Water District of Southern California



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INTRODUCTION

This Appendix A provides general information regarding The Metropolitan Water District of Southern California ("Metropolitan"), including information regarding Metropolitan's operations and finances. Statements included or incorporated by reference in this Appendix A constitute "forward-looking statements." Such statements are generally identifiable by the terminology used such as "plan," "project," "expect," "estimate," "budget" or other similar words. The achievement of results or other expectations contained in such forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Actual results may differ from Metropolitan's forecasts. Metropolitan is not obligated to issue any updates or revisions to the forward-looking statements in any event. Metropolitan maintains a website that may include information on programs or projects described in this Appendix A; however, none of the information on Metropolitan's website is incorporated by reference and none of such information is intended to assist investors in making an investment decision or to provide any additional information with respect to the information included in this Appendix A.

Formation and Purpose

Metropolitan is a metropolitan water district created in 1928 under authority of the Metropolitan Water District Act (California Statutes 1927, Chapter 429, as reenacted in 1969 as Chapter 209, as amended (herein referred to as the "Act")). The Act authorizes Metropolitan to: levy property taxes within its service area; establish water rates; impose charges for water standby and service availability; incur general obligation bonded indebtedness and issue revenue bonds, notes and short-term revenue certificates; execute contracts; and exercise the power of eminent domain for the purpose of acquiring property. In addition, Metropolitan's Board of Directors (the "Board") is authorized to establish terms and conditions under which additional areas may be annexed to Metropolitan's service area.

Metropolitan's primary purpose is to provide a supplemental supply of water for domestic and municipal uses at wholesale rates to its member public agencies. If additional water is available, such water may be sold for other beneficial uses. Metropolitan serves its member agencies as a water wholesaler and has no retail customers.

The mission of Metropolitan, as promulgated by the Board, is to provide its service area with adequate and reliable supplies of high quality water to meet present and future needs in an environmentally and economically responsible way.

Metropolitan's charges for water sales and availability are fixed by its Board, and are not subject to regulation or approval by the California Public Utilities Commission or any other state or federal agency. Metropolitan imports water from two principal sources: northern California via the Edmund G. Brown California Aqueduct (the "California Aqueduct") of the State Water Project owned by the State of California (the "State") and the Colorado River via the Colorado River Aqueduct owned by Metropolitan.

Member Agencies

Metropolitan is comprised of 26 member public agencies, including 14 cities, 11 municipal water districts, and one county water authority, which collectively serve the residents and businesses of more than 300 cities and numerous unincorporated communities. Member agencies request water from Metropolitan at various delivery points within Metropolitan's system and pay for such water at uniform rates established by the Board for each class of service. Metropolitan's water is a supplemental supply for its member agencies, most of whom have other sources of water. See "METROPOLITAN REVENUES—Principal Customers" for a listing of the ten member agencies with the highest water purchases from Metropolitan during the fiscal year ended June 30, 2012. Metropolitan's member agencies may, from time to time, develop additional sources of water. No member is required to purchase water from Metropolitan, but all member agencies are

required to pay readiness-to-serve charges whether or not they purchase water from Metropolitan. See “METROPOLITAN REVENUES—Rate Structure”, “—Member Agency Purchase Orders” and “—Additional Revenue Components” in this Appendix A.

The following table lists the current 26 member agencies of Metropolitan.

<u>Municipal Water Districts</u>		<u>Cities</u>		<u>County</u> <u>Water Authority</u>
Calleguas	Las Virgenes	Anaheim	Los Angeles	San Diego
Central Basin	Orange County	Beverly Hills	Pasadena	
Eastern	Three Valleys	Burbank	San Fernando	
Foothill	West Basin	Compton	San Marino	
Inland Empire Utilities Agency		Fullerton	Santa Ana	
Upper San Gabriel Valley		Glendale	Santa Monica	
Western of Riverside County		Long Beach	Torrance	
<u>Service Area</u>				

Metropolitan’s service area comprises approximately 5,200 square miles and includes portions of the six counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura. When Metropolitan began delivering water in 1941, its service area consisted of approximately 625 square miles. Its service area has increased by 4,500 square miles since that time. The expansion is primarily the result of annexation of the service areas of additional member agencies.

Metropolitan estimates that approximately 18 million people lived in Metropolitan’s service area in 2010, based on official estimates from the California Department of Finance and on population distribution estimates from the Southern California Association of Governments (“SCAG”) and San Diego Association of Governments (“SANDAG”). Population projections prepared by SCAG and SANDAG in 2012 and 2010, as part of their planning process to update regional transportation and land use plans, show expected population growth of about 18 percent in Metropolitan’s service area between 2010 and 2035. SANDAG’s regional agency projections do not incorporate the 2010 Census population estimates and may be revised. The economy of Metropolitan’s service area is exceptionally diverse. As measured in 2011, the economy of Metropolitan’s service area had a gross domestic product larger than all but fifteen nations of the world. Metropolitan provides between 40 and 60 percent of the water used within its service area in any year. For additional economic and demographic information concerning Metropolitan’s service area, see Appendix E – “SELECTED DEMOGRAPHIC AND ECONOMIC INFORMATION FOR METROPOLITAN’S SERVICE AREA.”

The climate in Metropolitan’s service area ranges from moderate temperatures throughout the year in the coastal areas to hot and dry summers in the inland areas. Annual rainfall in an average year is 13 to 15 inches along the coastal area, up to 20 inches in foothill areas and less than 10 inches inland.

METROPOLITAN’S WATER SUPPLY

Metropolitan faces a number of challenges in providing a reliable and high quality water supply for southern California. These include, among others: (1) population growth within the service area; (2) increased competition for low-cost water supplies; (3) variable weather conditions; and (4) increased environmental regulations. Metropolitan’s resources and strategies for meeting these long-term challenges are set forth in its Integrated Water Resources Plan, as updated from time to time. See “—Integrated Water Resources Plan” below.

Metropolitan's principal sources of water are the State Water Project and the Colorado River. Recent court decisions have restricted deliveries from the State Water Project as described below under "—State

Water Project—*Endangered Species Act Considerations*." In addition, weather conditions have varied significantly, affecting water supplies. Dry conditions persisted in the northern Sierra Nevada watershed for the State Water Project from 2007 through 2009, followed by above-normal precipitation from January 2010 through March 2011. On March 31, 2011, California Governor Jerry Brown proclaimed an end to the statewide drought emergency proclaimed on February 27, 2009 by then-Governor of California Arnold Schwarzenegger. By May 1, 2011, snowpack in the Sierra Nevada had reached 190 percent of normal. Drier conditions returned in late 2011 and early 2012, with California statewide snowpack peaking in mid-April 2012 at 64 percent of normal. On May 1, 2012, statewide snowpack water content was 40 percent of normal.

Supply conditions for the Colorado River have also been impacted by weather conditions. Precipitation in the Upper Colorado River Basin from October 2011 through May 29, 2012 was 73% of normal. Peak snowpack levels in the Upper Colorado River Basin were measured early in the season on March 22, 2012 at 75 percent of normal. The observed April through July 2012 runoff into Lake Powell was 2.1 million acre-feet, or 29 percent of average. In December 2011, Lake Mead's elevation reached 1,133 feet above sea level, or 56 percent full, which is approximately 51 feet higher than observed in November 2010, the lowest elevation recorded since the reservoir was first filled. The reservoir peaked in January 2012 at 1,135 feet. As of August 5, 2012, Lake Mead's elevation was 1,116 feet. Each ten-foot change in Lake Mead's elevation represents approximately 1 million acre-feet of change in storage.

Uncertainties from potential future temperature and precipitation changes in a climate driven by increased concentrations of atmospheric carbon dioxide also present challenges. Areas of concern to California water planners identified by researchers include reduction in Sierra Nevada snowpack; increased intensity and frequency of extreme weather events; and rising sea levels resulting in increased risk of damage from storms, high-tide events, and the erosion of levees and potential cutbacks of deliveries from the State Water Project. While potential impacts from climate change remain subject to study and debate, climate change is among the uncertainties that Metropolitan seeks to address through its planning processes.

Integrated Water Resources Plan

Metropolitan, its member agencies, sub-agencies and groundwater basin managers developed their first Integrated Water Resources Plan ("IRP"), which was adopted by the Board in January 1996 and updated in 2004, as a long-term planning guideline for resources and capital investments. The purpose of the IRP was the development of a portfolio of preferred resources (see "—The Integrated Resources Plan Strategy" below) to meet the water supply reliability and water quality needs for the region in a cost-effective and environmentally sound manner.

On October 12, 2010, Metropolitan's Board adopted an IRP update (the "2010 IRP Update") as a strategy to set goals and a framework for water resources development. This strategy enables Metropolitan and its member agencies to manage future challenges and changes in California's water conditions and to balance investments with water reliability benefits. The 2010 IRP Update provides an adaptive management approach to address future uncertainty, including uncertainty from climate change. It was formulated with input from member agencies, retail water agencies, and other stakeholders including water and wastewater managers, environmental and business interests and the community. The framework places an emphasis on regional collaboration.

The 2010 IRP Update seeks to provide regional reliability through 2035 by stabilizing Metropolitan's traditional imported water supplies and continuing to develop additional local resources, with an increased

emphasis on regional collaboration. It also advances long-term planning for potential future contingency resources, such as storm water capture and large-scale seawater desalination, in close coordination with Metropolitan's 26 member agencies and other utilities.

The 2010 IRP Update is available on Metropolitan's web site at <http://www.mwdh2o.com/mwdh2o/pages/yourwater/irp/>. Specific projects that may be developed by Metropolitan in connection with the implementation of the IRP will be subject to future Board consideration and approval, as well as environmental and regulatory documentation and compliance. The information set forth on Metropolitan's web site is not incorporated by reference.

The Integrated Resources Plan Strategy

The IRP Strategy identifies a balance of local and imported water resources within Metropolitan's service area. Metropolitan expects that the core resource strategy, uncertainty buffers and foundational actions in the IRP Strategy will be continually reviewed and updated at least every five years to reflect changing demand and supply conditions.

The following paragraphs describe several elements of the IRP Strategy.

State Water Project. [The State Water Project is one of Metropolitan's two major sources of water. In addition to municipal and industrial use of this core supply.](#) State Water Project supplies are important for maximizing local groundwater potential and the use of recycled water since State Water Project water has lower salinity content than Colorado River Aqueduct water and can be used to increase groundwater conjunctive use applications. See "METROPOLITAN'S WATER SUPPLY—State Water Project" and "REGIONAL WATER RESOURCES—Local Water Supplies" in this Appendix A.

Colorado River Aqueduct. The Colorado River Aqueduct delivers water from the Colorado River, Metropolitan's original source of supply. Metropolitan has helped to fund and implement farm and irrigation district conservation programs, improvements to river operation facilities, land management programs and water transfers and exchanges through agreements with agricultural water districts in southern California and entities in Arizona and Nevada that use Colorado River water. See "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct" in this Appendix A.

Water Conservation. Conservation and other water use efficiencies are integral components of Metropolitan's IRP. Metropolitan has invested in conservation programs since the 1980s. Historically, most of the investments have been in water efficient fixtures in the residential sector. Current efforts also focus on outdoor and commercial water use. See "METROPOLITAN'S WATER SUPPLY—Water Conservation" in this Appendix A.

Recycled Water. Reclaimed or recycled municipal and industrial water is not potable, but can be used for landscape irrigation, agriculture, protecting groundwater basins from saltwater intrusion, industrial processes, and recharging local aquifers. Metropolitan offers financial incentives to member agencies for developing economically viable reclamation projects. See "REGIONAL WATER RESOURCES—Local Water Supplies" in this Appendix A.

Conjunctive Use. Conjunctive use is the coordinated use of surface water supplies and groundwater storage. It entails storing surplus imported water during the winter months or wet years in local surface reservoirs and recharging local groundwater basins, then using the stored supplies during dry months and droughts, thus increasing the supply reliability of the region. See "REGIONAL WATER RESOURCES—Local Water Supplies" in this Appendix A.

Water Transfers and Exchanges. Under voluntary water transfer or exchange agreements, agricultural communities using irrigation water may periodically sell some of their water allotments to urban areas. The water may be delivered through existing State Water Project or Colorado River Aqueduct facilities, or may be exchanged for water that is delivered through such facilities. Metropolitan's policy toward potential transfers states that the transfers will be designed to protect and, where feasible, enhance environmental resources and avoid the mining of local groundwater supplies. See "METROPOLITAN'S WATER SUPPLY—Water Transfer, Storage and Exchange Programs" in this Appendix A.

Groundwater Recovery. Natural groundwater reservoirs serve an important function as storage facilities for local and imported water. When groundwater storage becomes contaminated, water agencies have to rely more heavily on imported water supplies. Treatment for polluted groundwater is quite costly and poses environmental challenges. Metropolitan offers financial incentives to help fund member agency groundwater recovery projects. See "REGIONAL WATER RESOURCES—Local Water Supplies" in this Appendix A.

Seawater Desalination. Seawater desalination is the process of removing salts from ocean water to produce potable supplies. It is a potential new local supply that could help increase supply reliability in Metropolitan's service area. Metropolitan offers financial incentives to member agencies for seawater desalination projects through its Seawater Desalination Program. Currently, a number of seawater desalination projects are under development within Metropolitan's service area. See "REGIONAL WATER RESOURCES—Local Water Supplies" and "METROPOLITAN REVENUES—Rate Structure" in this Appendix A.

State Water Project

General. One of Metropolitan's two major sources of water is the State Water Project, which is owned by the State and operated by the California Department of Water Resources ("DWR"). This project transports Feather River water stored in and released from Oroville Dam and unregulated flows diverted directly from the San Francisco Bay/Sacramento-San Joaquin River Delta ("Bay-Delta") south via the California Aqueduct to four delivery points near the northern and eastern boundaries of Metropolitan's service area. The total length of the California Aqueduct is approximately 444 miles.

In 1960, Metropolitan signed a water supply contract (as amended, the "State Water Contract") with DWR. Metropolitan is one of 29 agencies that have long-term contracts for water service from DWR, and is the largest agency in terms of the number of people it serves (approximately 18 million), the share of State Water Project water that it has contracted to receive (approximately 46 percent), and the percentage of total annual payments made to DWR by agencies with State water contracts (approximately 58 percent for 2011). For information regarding Metropolitan's obligations under the State Water Contract, see "METROPOLITAN EXPENDITURES—State Water Contract Obligations" in this Appendix A. Upon expiration of the State Water Contract term (currently in 2035), Metropolitan has the option to continue service under substantially the same terms and conditions.

The State Water Contract, under a 100 percent allocation, provides Metropolitan 1,911,500 acre-feet of water. (An acre-foot is the amount of water that will cover one acre to a depth of one foot and equals approximately 326,000 gallons, which represents the needs of two average families in and around the home for one year.) Water received from the State Water Project by Metropolitan over the ten years from 2002 through 2011, including water from water transfer, groundwater banking and exchange programs delivered through the California Aqueduct, described below under "—Water Transfer, Storage and Exchange Programs," varied from a low of 908,000 acre-feet in calendar year 2009 to a high of 1,800,000 acre-feet in 2004.

For calendar year 2011, DWR's allocation to State Water Project contractors was 80 percent of contracted amounts, reflecting significantly above-normal precipitation over the entire Sierra Nevada range and accumulating snowpack to levels of 185 percent of normal and greater. The 80 percent allocation enabled Metropolitan to take up to 1,529,200 acre-feet of its 1,911,500 acre-foot contractual amount. The 80 percent allocation for 2011 was the highest water supply allocation in five years. In 2011, Metropolitan took delivery of approximately 1.4 million acre-feet to its service area, including supplies from water transfers, exchanges and other deliveries through the California Aqueduct. Additional amounts were stored and exchanged with Metropolitan's out of service area storage and exchange partners. See "—Water Transfer, Storage and Exchange Programs" and "—Storage Capacity and Water in Storage" below.

For calendar year 2012, DWR's initial allocation estimate to State Water Project contractors was 60 percent of contracted amounts. This estimate was reduced to 50 percent of contracted amounts on February 21, 2012 and adjusted upward to 60 percent of contracted amounts by April 16, 2012. The allocation was increased again on May 23, 2012, to 65 percent of contracted amounts due to April's wetter-than-usual weather. For Metropolitan, the increased 2012 allocation will provide 1,242,475 acre-feet, or 65 percent of its 1,911,500-acre-foot contractual amount. In addition, Metropolitan began 2012 with 200,000 acre-feet of carryover supplies from prior years in San Luis Reservoir, a joint use facility of the State Water Project and federal Central Valley Project, all of which can be drawn in 2012.

Endangered Species Act Considerations

General. The listing of several fish species as threatened or endangered under the federal or California Endangered Species Acts (respectively, the "Federal ESA" and the "California ESA" and, collectively, the "ESAs") have adversely impacted State Water Project operations and limited the flexibility of the State Water Project. Currently, five species (the winter-run and spring-run Chinook salmon, Delta smelt, North American green sturgeon and Central Valley steelhead) are listed under the ESAs. In addition, on June 25, 2009, the California Fish and Game Commission declared the longfin smelt a threatened species under the California ESA.

The Federal ESA requires that before any federal agency authorizes funds or carries out an action it must consult with the appropriate federal fishery agency to determine whether the action would jeopardize the continued existence of any threatened or endangered species, or adversely modify habitat critical to the species' needs. The result of the consultation is known as a "biological opinion." In the biological opinion the federal fishery agency determines whether the action would cause jeopardy to a threatened or endangered species or adverse modification to critical habitat and recommends reasonable and prudent alternatives or measures that would allow the action to proceed without causing jeopardy or adverse modification. The biological opinion also includes an "incidental take statement." The incidental take statement allows the action to go forward even though it will result in some level of "take," including harming or killing some members of the species, incidental to the agency action, provided that the agency action does not jeopardize the continued existence of any threatened or endangered species and complies with reasonable mitigation and minimization measures recommended by the federal fishery agency.

In 2004 and 2005, the United States Fish and Wildlife Service ("USFWS") and National Marine Fisheries Service issued biological opinions and incidental take statements governing the coordinated operations of the State Water Project and the federal Central Valley Project with respect to the Delta smelt, the winter-run and spring-run Chinook salmon and the Central Valley steelhead. In July 2006, the Bureau of Reclamation reinitiated consultation with the USFWS and National Marine Fisheries Service with respect to the 2004 and 2005 biological opinions (with the addition of the North American green sturgeon, which was listed in April 2006) following the filing of legal challenges to those biological opinions and incidental take statements described under "*Federal ESA Litigation*" below. Under the Federal ESA, critical habitat must also be designated for each listed species. Critical habitat has been designated for each of the currently listed species.

Federal ESA Litigation. Litigation filed by several environmental interest groups (*NRDC v. Kempthorne*; and *Pacific Coast Federation of Fishermen's Associations v. Gutierrez*) in the United States District Court for the Eastern District of California alleged that the 2004 and 2005 biological opinions and incidental take statements inadequately analyzed impacts on listed species under the Federal ESA.

On May 25, 2007, Federal District Judge Wanger issued a decision on summary judgment in *NRDC v. Kempthorne*, finding the USFWS biological opinion for Delta smelt to be invalid. The USFWS released a new biological opinion on the impacts of the State Water Project and Central Valley Project on Delta smelt on December 15, 2008. Metropolitan, the San Luis & Delta Mendota Water Authority, Westlands Water District, Kern County Water Agency, Coalition for a Sustainable Delta and State Water Contractors, a California nonprofit corporation formed by agencies contracting with DWR for water from the State Water Project (the "State Water Contractors"), the Family Farm Alliance and the Pacific Legal Foundation on behalf of several owners of small farms in California's Central Valley filed separate lawsuits in federal district court challenging the biological opinion, which the federal court consolidated under the caption *Delta Smelt Consolidated Cases*.

On December 14, 2010, Judge Wanger issued a decision on summary judgment finding that there were major scientific and legal flaws in the Delta smelt biological opinion. The court found that some but not all of the restrictions on project operations contained in the 2008 Delta smelt biological opinion were arbitrary, capricious and unlawful. On May 18, 2011, Judge Wanger issued a final amended judgment directing the USFWS to complete a new draft biological opinion by October 1, 2011, and a final biological opinion with environmental documentation by December 1, 2013. Later stipulations and orders changed the October 1, 2011 due date for a draft biological opinion to December 14, 2011. A draft biological opinion was issued on December 14, 2011. The draft biological opinion deferred specification of a reasonable and prudent alternative and an incidental take statement pending completion of environmental impact review under the National Environmental Policy Act ("NEPA"). The federal defendants and environmental intervenors appealed the final judgment invalidating the 2008 Delta smelt biological opinion to the U.S. Court of Appeals for the Ninth Circuit. State Water Project and Central Valley Project contractor plaintiffs, including Metropolitan, have cross-appealed from the final judgment. Those appeals and cross-appeals are scheduled for hearing on September 10, 2012.

On February 25, 2011, the federal court approved a settlement agreement modifying biological opinion restrictions on Old and Middle River flows that would have otherwise applied in spring 2011. The settlement agreement expired on June 30, 2011. State Water Project and Central Valley Project contractors also moved to enjoin certain fall salinity requirements in the biological opinion that were set to become operable in September and October 2011. After an evidentiary hearing on the water contractors' motion in July 2011, Judge Wanger issued a decision on August 31, 2011, modifying the fall salinity related requirements in the biological opinion. The effect of the injunction was to reduce water supply impacts from the biological opinion's fall salinity requirements. The federal defendants and the environmental intervenors appealed the injunction on fall salinity requirements but the federal defendants subsequently dismissed their appeal in October 2011. The environmental intervenors' appeal to the Ninth Circuit on the fall salinity requirement injunction is scheduled for hearing on September 10, 2012. The State Water Project and Central Valley Project contractors have moved to dismiss the environmental intervenors' appeal of the fall salinity requirement on the ground that the salinity requirement for 2011 has expired, and is therefore moot.

On April 16, 2008, in *Pacific Coast Federation of Fishermen's Associations v. Gutierrez*, the court invalidated the 2004 National Marine Fisheries Service's biological opinion for the salmon and other fish species that spawn in rivers flowing into the Bay-Delta. Among other things, the court found that the no-jeopardy conclusions in the biological opinion were inconsistent with some of the factual findings in the biological opinion; that the biological opinion failed to adequately address the impacts of State Water Project and Central Valley Project operations on critical habitat and that there was a failure to consider how climate change and global warming might affect the impacts of the projects on salmonid species.

The National Marine Fisheries Service released a new biological opinion for salmonid species to replace the 2004 biological opinion on June 4, 2009. The 2009 salmonid species biological opinion contains additional restrictions on State Water Project and Central Valley Project operations. The National Marine Fisheries Service calculated that these restrictions will reduce the amount of water the State Water Project and Central Valley Project combined will be able to export from the Bay-Delta by 5 to 7 percent. DWR had estimated a 10 percent average water loss under this biological opinion. See “—*State Water Project Operational Constraints*” below for the estimated impact to Metropolitan’s water supply. Six lawsuits were filed challenging the 2009 salmon biological opinion. These various lawsuits have been brought by the San Luis & Delta Mendota Water Authority, Westlands Water District, Stockton East Water District, Oakdale Irrigation District, Kern County Water Agency, the State Water Contractors and Metropolitan. The court consolidated the cases under the caption *Consolidated Salmon Cases*.

On May 25, 2010, the court granted the plaintiffs’ request for preliminary injunction in the *Consolidated Salmon Cases*, restraining enforcement of two requirements under the salmon biological opinion that limit exported water during the spring months based on San Joaquin River flows into the Bay-Delta and reverse flows on the Old and Middle Rivers. Hearings on motions for summary judgment in the *Consolidated Salmon Cases* were held on December 16, 2010. On September 20, 2011, Judge Wanger issued a decision on summary judgment, finding that the salmon biological opinion was flawed, and that some but not all of the project restrictions in the biological opinion were arbitrary and capricious. On December 12, 2011, Judge O’Neill (who was assigned to this case following Judge Wanger’s retirement) issued a final judgment in the *Consolidated Salmon Cases*. The final judgment remands the 2009 salmon biological opinion to the National Marine Fisheries Service, and directs that a new draft salmon biological opinion be issued by October 1, 2014, and that a final biological opinion be issued by February 1, 2016, after completion of environmental impact review under NEPA. On January 19, 2012, Judge O’Neill approved a joint stipulation of the parties that specifies how to comply with one of the salmon biological opinion restrictions that applies to water project operations in April and May of 2012. In January and February 2012, the federal defendants and environmental intervenors filed appeals of the final judgment in the *Consolidated Salmon Cases*, and the State Water Project and Central Valley Project contractors filed cross-appeals. Those appeals and cross-appeals are now pending in the Ninth Circuit.

On November 13, 2009, the Center for Biological Diversity filed separate lawsuits challenging the USFWS’ failure to respond to a petition to change the Delta smelt’s federal status from threatened to endangered and the USFWS’ denial of federal listing for the longfin smelt. On April 2, 2010, the USFWS issued a finding that uplisting the Delta smelt was warranted but precluded by the need to devote resources to higher-priority matters. This “warranted but precluded” finding did not change the regulatory restrictions applicable to Delta smelt. For the longfin smelt litigation, a settlement agreement was approved on February 2, 2011. Under the agreement, the USFWS agreed to complete a range-wide status review of the longfin smelt and consider whether the Bay-Delta longfin smelt population, or any other longfin smelt population from California to Alaska, qualifies as a "distinct population" that warrants federal protection. On April 2, 2012, the USFWS issued its finding that the Bay-Delta longfin smelt population warrants protection under the ESA but is precluded from listing as a threatened or endangered species by the need to address other higher priority listing actions. The review identified several threats facing longfin smelt in the Bay-Delta, including reduced freshwater Bay-Delta outflows. The finding includes the determination that the Bay-Delta longfin smelt will be added to the list of candidates for ESA protection, where its status will be reviewed annually.

California ESA Litigation. In addition to the litigation under the Federal ESA, other environmental groups sued DWR on October 4, 2006 in the Superior Court of the State of California for Alameda County alleging that DWR was “taking” listed species without authorization under the California ESA. This litigation (*Watershed Enforcers, a project of the California Sportfishing Protection Alliance v. California Department of Water Resources*) requested that DWR be mandated to either cease operation of the State Water Project pumps, which deliver water to the California Aqueduct, in a manner that results in such

“taking” of listed species or obtain authorization for such “taking” under the California ESA. On April 18, 2007, the Alameda County Superior Court issued its Statement of Decision finding that DWR was illegally “taking” listed fish through operation of the State Water Project export facilities. The Superior Court ordered DWR to “cease and desist from further operation” of those facilities within 60 days unless it obtained take authorization from the California Department of Fish and Game.

DWR appealed the Alameda County Superior Court’s order on May 7, 2007. This appeal stayed the order pending the outcome of the appeal. The Court of Appeal stayed processing of the appeal in 2009 to allow time for DWR to obtain incidental take authorization for the Delta smelt and salmon under the California ESA, based on the consistency of the federal biological opinions with California ESA requirements (“Consistency Determinations”). After the California Department of Fish & Game issued the Consistency Determinations under the California ESA, authorizing the incidental take of both Delta smelt and salmon, appellants DWR and State Water Contractors dismissed their appeals of the *Watershed Enforcers* decision. The Court of Appeal subsequently issued a decision finding that DWR was a “person” under the California ESA and subject to its take prohibitions, which was the only issue left in the case. The State Water Contractors and Kern County Water Agency have filed suit in state court challenging the Consistency Determinations under the California ESA that have been issued for both Delta smelt and salmon. Those lawsuits challenging the Consistency Determinations are pending. The parties are continuing discussions of adjustments to the incidental take authorizations in light of the summary judgment ruling in the *Delta Smelt Consolidated Cases* and the *Consolidated Salmon Cases*, discussed under the heading “—Federal ESA Litigation” above.

The California Fish and Game Commission listed the longfin smelt as a threatened species under the California ESA on June 25, 2009. On February 23, 2009, in anticipation of the listing action, the California Department of Fish and Game issued a California ESA section 2081 incidental take permit to DWR authorizing the incidental take of longfin smelt by the State Water Project. This permit authorizes continued operation of the State Water Project under the conditions specified in the section 2081 permit. The State Water Contractors filed suit against the California Department of Fish and Game on March 25, 2009, alleging that the export restrictions imposed by the section 2081 permit have no reasonable relationship to any harm to longfin smelt caused by State Water Project operations, are arbitrary and capricious and are not supported by the best available science. The lawsuit is pending and the administrative record for the cases has been completed.

State Water Project Operational Constraints. DWR has altered the operations of the State Water Project to accommodate species of fish listed under the ESAs. These changes in project operations have adversely affected State Water Project deliveries. The impact on total State Water Project deliveries attributable to the Delta smelt and salmonid species biological opinions combined is estimated to be one million acre-feet in an average year, reducing State Water Project deliveries from approximately 3.3 million acre-feet to approximately 2.3 million acre-feet for the year under average hydrology, and are estimated to range from 0.3 million acre-feet during critically dry years to 1.3 million acre-feet in above normal water years. State Water Project deliveries to contractors were reduced by approximately 285,000 acre-feet of water in calendar year 2011 as a result of pumping restrictions, with 135,000 acre-feet of export reductions in January and February, and 150,000 acre-feet in the fall. Despite operational restrictions in 2011, high flows from above-normal precipitation in late 2010 and early 2011 reaching the Bay-Delta resulted in above average storage levels remaining in Lake Oroville through July 2012.

Operational constraints likely will continue until long-term solutions to the problems in the Bay-Delta are identified and implemented. The Delta Vision process, established by then-Governor Schwarzenegger, was aimed at identifying long-term solutions to the conflicts in the Bay-Delta, including natural resource, infrastructure, land use and governance issues. In addition, State and federal resource agencies and various environmental and water user entities are currently engaged in the development of the Bay-Delta Conservation Plan, which is aimed at addressing ecosystem needs and securing long-term

operating permits for the State Water Project, and includes the Delta Habitat Conservation and Conveyance Program (DHCCP) (together, the “BDCP”). The DHCCP’s current efforts consist of the preparation of the environmental documentation and preliminary engineering design for Bay-Delta water conveyance and related habitat conservation measures under the BDCP. The Delta Vision process and the BDCP are discussed further under “—*Bay-Delta Regulatory and Planning Activities*” below.

Other issues, such as the decline of some fish populations in the Bay-Delta and surrounding regions and certain operational actions in the Bay-Delta, may significantly reduce Metropolitan’s water supply from the Bay-Delta. State Water Project operational requirements may be further modified under new biological opinions for listed species under the Federal ESA or by the California Department of Fish and Game’s issuance of incidental take authorizations under the California ESA. Biological opinions or incidental take authorizations under the Federal ESA and California ESA might further adversely affect State Water Project and Central Valley Project operations. Additionally, new litigation, listings of additional species or new regulatory requirements could further adversely affect State Water Project operations in the future by requiring additional export reductions, releases of additional water from storage or other operational changes impacting water supply operations. Metropolitan cannot predict the ultimate outcome of any of the litigation or regulatory processes described above but believes they could have a materially adverse impact on the operation of the State Water Project pumps, Metropolitan’s State Water Project supplies and Metropolitan’s water reserves.

“Area of Origin” Litigation. Four State Water Project contractors located north of the State Water Project’s Bay-Delta pumping plant filed litigation against DWR on July 17, 2008, asserting that since they are located in the “area of origin” of State Water Project water they are entitled to receive their entire contract amount before any water is delivered to contractors south of the Bay-Delta. If the plaintiffs are successful in this litigation, State Water Project water available to Metropolitan in a drought period could be reduced by approximately 25,000 acre-feet each year of a multi-year drought or by as much as 40,000 acre-feet in an exceedingly dry year. Metropolitan and twelve other State Water Project contractors located south of the Bay-Delta filed motions to intervene in this litigation, which were granted on February 25, 2009. In May 2012, the parties reached an agreement in principle that plaintiffs will dismiss the action with prejudice and agree to certain limitations on asserting area of origin arguments in the future; in return DWR and the intervenors will agree to operational changes that will increase the reliability of plaintiffs’ SWP supplies at little or minimal cost to other SWP water contractors. The parties are drafting a formal settlement agreement.

Bay-Delta Regulatory and Planning Activities. The State Water Resources Control Board (“SWRCB”) is the agency responsible for setting water quality standards and administering water rights throughout California. Decisions of the SWRCB can affect the availability of water to Metropolitan and other users of State Water Project water. The SWRCB exercises its regulatory authority over the Bay-Delta by means of public proceedings leading to regulations and decisions. These include the Bay-Delta Water Quality Control Plan (“WQCP”), which establishes the water quality objectives and proposed flow regime of the estuary, and water rights decisions, which assign responsibility for implementing the objectives of the WQCP to users throughout the system by adjusting their respective water rights. The SWRCB is required by law to periodically review its WQCP to ensure that it meets the changing needs of this complex system.

Since 2000, SWRCB’s Water Rights Decision 1641 (“D-1641”) has governed the State Water Project’s ability to export water from the Bay-Delta for delivery to Metropolitan and other agencies receiving water from the State Water Project. D-1641 allocated responsibility for meeting flow requirements and salinity and other water quality objectives established earlier by the WQCP. The SWRCB also identified additional issues to review, which could result in future changes in water quality objectives and flows that could affect exports of water from the State Water Project. Currently, the SWRCB is reviewing salinity objectives in the Bay-Delta intended to protect Bay-Delta farming and inflow requirements upstream of the Delta to protect aquatic species.

The CALFED Bay-Delta Program was a collaborative effort among 25 State and federal agencies to improve water supplies in California and the health of the Bay-Delta watershed. On August 28, 2000, the federal government and the State issued a Record of Decision (“ROD”) and related documents approving the final programmatic environmental documentation for the CALFED Bay-Delta Program. The Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA) was challenged in three separate cases, but ultimately upheld by the California Supreme Court in June 2008.

The CALFED Bay-Delta Program resulted in an investment of \$3 billion on a variety of projects and programs to begin addressing the Bay-Delta’s water supply, water quality, ecosystem, and levee stability problems. To guide future development of and governance for the CALFED Bay-Delta Program and identify a strategy for managing the Bay-Delta as a sustainable resource, in September 2006, then-Governor Schwarzenegger established by Executive Order a Delta Vision process. The Delta Vision process resulted in creation of a Delta Vision Blue Ribbon Task Force that issued its Delta Vision Strategic Plan (the “Strategic Plan”) on October 17, 2008, providing its recommendations for long-term sustainable management of the Bay-Delta. These recommendations included completing the BDCP and associated environmental assessments to permit ecosystem revitalization and water conveyance improvements, identifying and reducing stressors to the Bay-Delta ecosystem, strengthening levees, increasing emergency preparedness, continuing funding for the CALFED ecosystem restoration program, updating Bay-Delta regulatory flow and water quality standards to protect beneficial uses of water and working with the State Legislature on a comprehensive water bond package to fund Bay-Delta infrastructure projects.

On November 4, 2009, the State Legislature authorized an \$11.1 billion water bond measure that includes over \$2 billion for Bay-Delta ecosystem restoration as well as \$3 billion for new water storage and additional funds for water recycling, drought relief, conservation and watershed protection projects. The bond measure is subject to voter authorization and was scheduled to be included on the November 2010 ballot; however, in August 2010 the Legislature postponed the bond election to 2012. In January 2012, Governor Jerry Brown issued a statement which supported removing the bond measure from the 2012 ballot to place it on the 2014 ballot. Delaying the bond election did not impact other parts of the 2009 water legislation. Related legislation created a new oversight council for the Bay-Delta, the Delta Stewardship Council, and directs that the Bay-Delta be managed with dual goals of water supply reliability and ecosystem protection, sets a statewide conservation target for urban per capita water use of 20 percent reductions by 2020 (with credits for existing conservation), provides funding for increased enforcement of illegal water diversions and establishes a statewide groundwater monitoring program. The Council, formed on February 3, 2010, is CALFED’s successor agency and was directed to adopt and oversee implementation of a comprehensive management plan for the Bay-Delta. Following public review in mid-2012, the plan is scheduled to be finalized by late 2012.

The working draft BDCP was completed in November 2010 and a full draft BDCP and the associated environmental impact statement and report are anticipated in 2013. On December 15, 2010, California and federal agencies affirmed their support for the BDCP process to restore the Bay-Delta ecosystem and regain water supply reliability for Californians. Separate reports from the California Natural Resources Agency and from President Obama’s Administration were concurrently released in support of the BDCP process and water conveyance improvements. The planning, environmental documentation and preliminary engineering design for the BDCP are being prepared pursuant to the Delta Habitat Conservation and Conveyance Program Memorandum of Agreement (“MOA”). The parties to the MOA are DWR, the Bureau of Reclamation, the State and Federal Contractors Water Agency, Metropolitan, Kern County Water Agency, State Water Contractors, San Luis & Delta Mendota Water Authority, Westlands Water District and Santa Clara Valley Water District. The final planning and environmental documents are scheduled to be completed in spring 2013. On July 25, 2012, Governor Jerry Brown and Secretary of the Interior Ken Salazar announced key elements to advance the BDCP planning process, including north Bay-Delta water diversion facilities with a total capacity of 9,000 cubic-feet per second (“cfs”), two tunnels sized to minimize energy use during operations, ~~and~~ a “decision tree” process for unresolved issues such as fall and spring outflows-

~~and a commitment by Metropolitan and the Santa Clara Valley Water District to surpass the 2009 Delta Reform Act water savings targets by 700,000 af per year based on predicted future demands.~~

Metropolitan, along with other State and federal water contractors, has urged action to address water quality concerns with respect to both the aquatic health of the Bay-Delta and drinking water quality. On December 9, 2010, the Central Valley Regional Water Quality Control Board ("Regional Board") approved a National Pollutant Discharge Elimination System ("NPDES") permit for the Sacramento Regional County Sanitation District ("Sanitation District") setting water-quality based requirements for the Sanitation District's wastewater treatment plant that will require advanced treatment upgrades for the Sanitation District's wastewater facility. The Sanitation District's treatment plant is the largest wastewater discharger into the Bay-Delta. The treatment plant provides only a secondary level of treatment and discharges nutrients, pathogens, and total organic carbon into the Bay-Delta water supply. The treatment plant's discharge of nitrogen, particularly ammonia, has been shown to be altering the food chain in the estuary to the detriment of Delta smelt and other native species. The NPDES permit calls for a significant reduction of the nitrogen and particularly ammonia discharge which will require full nitrification and denitrification treatment by 2020, as well as tertiary filtration treatment to meet pathogen removal requirements. The NPDES permit also includes additional permit limits and monitoring requirements for other water quality constituents, including toxic contaminants.

The Sanitation District petitioned the SWRCB for review of the NPDES permit. The SWRCB issued a draft order on May 14, 2012, largely upholding the Regional Board's determinations, and held a workshop on the proposed order on July 18, 2012. Although the appeal before the SWRCB remains pending, on December 30, 2011, the Sanitation District filed a lawsuit in Sacramento Superior Court against the Regional Board and SWRCB seeking to overturn and relax the NPDES permit. Metropolitan and other water agencies that participated in the NPDES permitting process have intervened in the superior court case. In a stipulation between the Sanitation District and the Regional Board, the superior court stayed all further proceedings in the case until after the SWRCB issues its final decision on the permit. The stay also extends the permit compliance deadline through the duration of the stay.

Metropolitan, other urban State Water Contractor agencies and the Contra Costa Water District earlier brought a successful CEQA challenge in response to significant, unmitigated water quality impacts that would occur from a planned expansion of the Sanitation District's treatment plant. The Sanitation District appealed the trial court ruling and the case remains pending in the Third District Court of Appeal awaiting oral argument.

California Water Impact Network Litigation. On September 3, 2010, the California Water Impact Network and two other non-profit organizations filed a petition for writ of mandate and for declaratory and injunctive relief in Sacramento Superior Court against the SWRCB and DWR. The petition alleges that by permitting and carrying out the export of large volumes of water from the Delta through the State Water Project, the SWRCB and DWR have failed to protect public trust fishery resources in the Delta; have been diverting water from the Bay-Delta wastefully and unreasonably in violation of the prohibition against waste and unreasonable use in the California Constitution; and have failed to enforce and comply with water quality and beneficial use standards in D-1641, the 1995 SWRCB Water Quality Control Plan, and the Porter-Cologne Act. Among the relief sought in the petition is an injunction against Bay-Delta exports by the State Water Project pending compliance with the various laws and administrative orders that are alleged to have been violated. The State Water Contractors filed a motion to intervene in this action, which was granted on March 25, 2011. The court has ordered the plaintiffs to include the Bureau of Reclamation as a party. In response, the Bureau of Reclamation has asserted that federal sovereign immunity bars their inclusion in the state court action. If the court determines that the Bureau of Reclamation is an indispensable party, the lawsuit, or portions of it, may be dismissed.

Monterey Agreement Litigation. On September 15, 2000, the Third District Court of Appeal for the State of California issued its decision in *Planning and Conservation League; Citizens Planning Association of Santa Barbara County and Plumas County Flood Control District v. California Department of Water Resources and Central Coast Water Authority*. This case was an appeal of a challenge to the adequacy of the environmental documentation prepared with respect to certain amendments to the State Water Contract (the "Monterey Agreement") which reflects the settlement of certain disputes regarding the allocation of State Water Project water. The Court of Appeal held that the environmental documentation was defective in failing to analyze the environmental effects of the Monterey Agreement's elimination of the permanent shortage provisions of the State Water Contract. The parties negotiated a settlement agreement in the fall of 2002, which allows continued operation of the State Water Project under the Monterey Agreement principles while a new EIR was prepared. DWR completed the final EIR and concluded the remedial CEQA review for the project on May 4, 2010. Following DWR's completion of the EIR, three new lawsuits were filed challenging the project. Central Delta Water Agency, South Delta Water Agency, California Water Impact Network, California Sportfishing Protection Alliance, and the Center For Biological Diversity filed a lawsuit against DWR in Sacramento County Superior Court challenging the validity of the EIR under CEQA and the validity of underlying agreements under a reverse validation action (the "*Central Delta I*" case). These same plaintiffs filed a reverse validation lawsuit against the Kern County Water Agency in Kern County Superior Court ("*Central Delta II*"). This lawsuit targets a transfer of land from Kern County Water Agency to the Kern Water Bank, which was completed as part of the original Monterey Amendments. The third lawsuit is an EIR challenge brought by Rosedale-Rio Bravo Water Storage District and Buena Vista Water Storage District ("*Rosedale-Rio Bravo*") against DWR in Kern County Superior Court. The two Kern County cases have been transferred to Sacramento Superior Court and the three cases consolidated for trial. No schedule has been issued by the court. Any adverse impact of this litigation on Metropolitan's State Water Project supplies cannot be determined at this time.

Colorado River Aqueduct

General. The Colorado River was Metropolitan's original source of water after Metropolitan's establishment in 1928. Metropolitan has a legal entitlement to receive water from the Colorado River under a permanent service contract with the Secretary of the Interior. Water from the Colorado River and its tributaries is also available to other users in California, as well as users in the states of Arizona, Colorado, Nevada, New Mexico, Utah, and Wyoming (the "Colorado River Basin States"), resulting in both competition and the need for cooperation among these holders of Colorado River entitlements. In addition, under a 1944 treaty, Mexico has an allotment of 1.5 million acre-feet of Colorado River water annually except in the event of extraordinary drought, or serious accident to the delivery system in the United States, when the water allotted to Mexico would be curtailed. Mexico also can schedule delivery of an additional 200,000 acre-feet of Colorado River water per year if water is available in excess of the requirements in the United States and the 1.5 million acre-feet allotted to Mexico.

The Colorado River Aqueduct, which is owned and operated by Metropolitan, transports water from the Colorado River approximately 242 miles to its terminus at Lake Mathews in Riverside County. After deducting for conveyance losses and considering maintenance requirements, up to 1.25 million acre-feet of water a year may be conveyed through the Colorado River Aqueduct to Metropolitan's member agencies, subject to availability of Colorado River water for delivery to Metropolitan as described below.

California is apportioned the use of 4.4 million acre-feet of water from the Colorado River each year plus one-half of any surplus that may be available for use collectively in Arizona, California and Nevada. In addition, California has historically been allowed to use Colorado River water apportioned to but not used by Arizona or Nevada when such supplies have been requested for use in California. Under the 1931 priority system that has formed the basis for the distribution of Colorado River water made available to California, Metropolitan holds the fourth priority right to 550,000 acre-feet per year. This is the last priority within California's basic apportionment. In addition, Metropolitan holds the fifth priority right to 662,000 acre-feet of water, which is in excess of California's basic apportionment. See the table "PRIORITIES UNDER THE

1931 CALIFORNIA SEVEN-PARTY AGREEMENT” below. Until 2003, Metropolitan had been able to take full advantage of its fifth priority right as a result of the availability of surplus water and apportioned but unused water. However, during the 1990s Arizona and Nevada increased their use of water from the Colorado River, utilizing their respective basic apportionments by 2002 and significantly reducing unused apportionment available for California. In addition, a severe drought in the Colorado River Basin reduced storage in system reservoirs, such that Metropolitan stopped taking surplus deliveries in 2003 in an effort to mitigate the effects of the drought. Prior to 2003, Metropolitan could divert over 1.2 million acre-feet in any year, but since that time, Metropolitan’s net diversions of Colorado River water have been limited to a low of nearly 633,000 acre-feet in 2006 and a high of approximately 1,105,232 acre-feet in 2009. Average annual net deliveries for 2003 through 2011 were approximately 830,300 acre-feet, with annual volumes dependent primarily on programs to augment supplies, including transfers of conserved water from agriculture. Metropolitan’s Colorado River supply was about 885,000 acre-feet in 2011, of which approximately 699,000 acre-feet was delivered through the Colorado River Aqueduct and about 186,000 acre-feet of intentionally-created surplus water was stored in Lake Mead. See “—*Quantification Settlement Agreement*” and “—*Interim Surplus Guidelines*” below.

PRIORITIES UNDER THE 1931 CALIFORNIA SEVEN-PARTY AGREEMENT⁽¹⁾

Priority	Description	Acre-Feet Annually
1	Palo Verde Irrigation District gross area of 104,500 acres of land in the Palo Verde Valley	
2	Yuma Project in California not exceeding a gross area of 25,000 acres in California	3,850,000
3(a)	Imperial Irrigation District and other lands in Imperial and Coachella Valleys ⁽²⁾ to be served by All-American Canal	
3(b)	Palo Verde Irrigation District - 16,000 acres of land on the Lower Palo Verde Mesa	
4	Metropolitan Water District of Southern California for use on the coastal plain	550,000
	SUBTOTAL	4,400,000
5(a)	Metropolitan Water District of Southern California for use on the coastal plain	550,000
5(b)	Metropolitan Water District of Southern California for use on the coastal plain ⁽³⁾	112,000
6(a)	Imperial Irrigation District and other lands in Imperial and Coachella Valleys to be served by the All-American Canal	
6(b)	Palo Verde Irrigation District - 16,000 acres of land on the Lower Palo Verde Mesa	300,000
	TOTAL	5,362,000
7	Agricultural use in the Colorado River Basin in California	Remaining surplus

Source: Metropolitan.

- (1) Agreement dated August 18, 1931, among Palo Verde Irrigation District, Imperial Irrigation District, Coachella Valley County Water District, Metropolitan, the City of Los Angeles, the City of San Diego and the County of San Diego. These priorities were memorialized in the agencies' respective water delivery contracts with the Secretary of the Interior.
- (2) The Coachella Valley Water District serves Coachella Valley.
- (3) In 1946, the City of San Diego, the San Diego County Water Authority, Metropolitan and the Secretary of the Interior entered into a contract that merged and added the City and County of San Diego's rights to storage and delivery of Colorado River water to the rights of Metropolitan.

Metropolitan has taken steps to augment its share of Colorado River water through agreements with other agencies that have rights to use such water. Under a 1988 water conservation agreement (the "1988 Conservation Agreement") between Metropolitan and the Imperial Irrigation District ("IID"), Metropolitan provided funding for IID to construct and operate a number of conservation projects that are currently conserving up to 105,000 acre-feet of water per year that is provided to Metropolitan. Under the October 2003 Quantification Settlement Agreement and related agreements, Metropolitan, at the request of Coachella Valley Water District ("CVWD"), forgoes up to 20,000 acre-feet of this water each year for diversion by CVWD. See "*Quantification Settlement Agreement*" below. In 2008, 2009 and 2010 CVWD's requests were for 16,000, 12,000 and 8,000 acre-feet respectively, leaving 89,000 acre-feet in 2008, 93,000 acre-feet

in 2009 and 97,000 acre-feet in 2010 for Metropolitan. In 2011, 103,940 acre-feet were conserved under the 1988 Conservation Agreement, of which 4,000 acre-feet were requested by CVWD.

In 1992, Metropolitan entered into an agreement with the Central Arizona Water Conservation District (“CAWCD”) to demonstrate the feasibility of CAWCD storing Colorado River water in central Arizona for the benefit of an entity outside of the State of Arizona. Pursuant to this agreement, CAWCD created 80,909 acre-feet of long-term storage credits that may be recovered by CAWCD for Metropolitan. Metropolitan, the Arizona Water Banking Authority, and CAWCD executed an amended agreement for recovery of these storage credits in December 2007. All 80,909 acre-feet were recovered and delivered to Metropolitan between 2007 and 2010.

Metropolitan and the Palo Verde Irrigation District (“PVID”) signed the program agreement for a Land Management, Crop Rotation and Water Supply Program in August 2004. This program provides up to 133,000 acre-feet of water to be available to Metropolitan in certain years. The term of the program is 35 years. Fallowing of approximately 20,000 acres of land began on January 1, 2005. In March 2009, Metropolitan and PVID entered into a supplemental fallowing program within PVID that provided for the fallowing of additional acreage in 2009 and 2010. In calendar years 2009 and 2010, respectively, 24,100 acre-feet and 32,300 acre-feet of water were saved and made available to Metropolitan under the supplemental program. The following table shows annual volumes of water saved and made available to Metropolitan:

WATER AVAILABLE FROM PVID LAND MANAGEMENT, CROP ROTATION, AND WATER SUPPLY PROGRAM

<u>Calendar Year</u>	<u>Volume (acre-feet)</u>
2005	108,700
2006	105,000
2007	72,300
2008	94,300
2009*	144,300
2010*	148,600
2011	122,200

Source: Metropolitan.

* Includes water from the supplemental fallowing program that provided for fallowing of additional acreage in 2009 and 2010.

In May 2008, Metropolitan provided \$28.7 million to join the CAWCD and the Southern Nevada Water Authority (“SNWA”) in funding the Bureau of Reclamation’s construction of an 8,000 acre-foot off-stream regulating reservoir near Drop 2 of the All-American Canal in Imperial County (officially renamed the Warren H. Brock Reservoir). Construction was completed in October 2010. The Warren H. Brock Reservoir is expected to conserve about 70,000 acre-feet of water per year by capturing and storing otherwise non-storable water flow. The Bureau of Reclamation has refunded to Metropolitan \$2.43 million in unused contingency funds. In return for its funding, Metropolitan received 100,000 acre-feet of water that is stored in Lake Mead, with the ability to deliver up to 40,000 acre-feet of water in any one year. Besides the additional water supply, the new reservoir adds to the flexibility of Colorado River operations.

In September 2009, Metropolitan authorized participation with SNWA, the Colorado River Commission of Nevada, the CAWCD and the Bureau of Reclamation in the pilot operation of the Yuma Desalting Plant. The Bureau of Reclamation concluded the pilot operation of the Yuma Desalting Plant in March 2011. Metropolitan’s contribution for the funding agreement was \$8,395,313. Metropolitan’s yield from the pilot run of the project was 24,397 acre-feet.

Quantification Settlement Agreement. The Quantification Settlement Agreement (“QSA”), executed by CVWD, IID and Metropolitan in October 2003, establishes Colorado River water use limits for IID and CVWD, provides for specific acquisitions of conserved water and water supply arrangements for up to 75 years, and restored the opportunity for Metropolitan to receive any “special surplus water” under the Interim Surplus Guidelines. See “—*Interim Surplus Guidelines*” below. The QSA also allows Metropolitan to enter into other cooperative Colorado River supply programs. Related agreements modify existing conservation and cooperative water supply agreements consistent with the QSA, and set aside several disputes among California’s Colorado River water agencies.

Specific programs under the QSA include lining portions of the All-American and Coachella Canals, which conserve approximately 96,000 acre-feet annually. As a result, about 80,000 acre-feet of conserved water is delivered to SDCWA by exchange with Metropolitan. Metropolitan also takes delivery of 16,000 acre-feet annually that will be made available for the benefit of the La Jolla, Pala, Pauma, Rincon and San Pasqual Bands of Mission Indians, the San Luis Rey River Indian Water Authority, the City of Escondido and the Vista Irrigation District, upon completion of a water rights settlement, expected in 2012. An amendment to the 1988 Conservation Agreement between Metropolitan and IID and an associated 1989 Approval Agreement among Metropolitan, IID, CVWD and PVID, extended the term of the 1988 Conservation Agreement and limited the single year amount of water used by CVWD to 20,000 acre-feet. Also included under the QSA is the Delivery and Exchange Agreement between Metropolitan and CVWD for 35,000 acre-feet that provides for Metropolitan to deliver annually up to 35,000 acre-feet of Metropolitan’s State Water Project contractual water to CVWD by exchange with Metropolitan’s available Colorado River supplies. In calendar year 2011, under a supplemental agreement with CVWD, Metropolitan delivered 105,000 acre-feet which consisted of the full 35,000 acre-feet for 2011 plus advance delivery of the full contractual amounts for 2012 and 2013. In 2021, the transfer of water conserved annually by IID to SDCWA is expected to reach 205,000 acre-feet. See description below under the caption “—*Sale of Water by the Imperial Irrigation District to San Diego County Water Authority*”; see also “METROPOLITAN REVENUES—Principal Customers” in this Appendix A. With full implementation of the programs identified in the QSA, at times when California is limited to its basic apportionment of 4.4 million acre-feet per year, Metropolitan expects to be able to annually divert to its service area approximately 850,000 acre-feet of Colorado River water plus water from other water augmentation programs it develops, including the PVID program, which provides up to approximately 130,000 acre-feet of water per year. (Amounts of Colorado River water received by Metropolitan in 2003 through 2011 are discussed under the heading “—Colorado River Aqueduct—*General*” above.)

A complicating factor in completing the QSA was the fate of the Salton Sea, an important habitat for a wide variety of fish-eating birds as a stopover spot along the Pacific flyway. Some of these birds are listed as threatened or endangered species under the State and Federal ESAs. Located at the lowest elevations of an inland basin and fed primarily by agricultural drainage with no outflows other than evaporation, the Salton Sea is trending towards hyper-salinity, which has already impacted the Salton Sea’s fishery. Without mitigation, the transfer of water from IID to SDCWA, one of the core programs implemented under the QSA, would reduce the volume of agricultural run-off from IID into the Salton Sea, which in turn would accelerate this natural trend of the Salton Sea to hyper-salinity. See “—*Sale of Water by the Imperial Irrigation District to San Diego County Water Authority*” below. In passing legislation to implement the QSA, the State Legislature committed the State to undertake restoration of the Salton Sea ecosystem. Restoration of the Salton Sea is subject to selection and approval of an alternative by the Legislature and funding of the associated capital improvements and operating costs. The Secretary for the California Natural Resources Agency submitted an \$8.9-billion preferred alternative for restoration of the Salton Sea to the Legislature in May 2007. While withholding authorization of the preferred alternative, the Legislature has appropriated funds from Proposition 84 to undertake demonstration projects and investigations called for in the Secretary’s recommendation. On September 25, 2010, then-Governor Schwarzenegger signed Senate Bill 51, establishing the “Salton Sea Restoration Council” as a state agency in the Natural Resources Agency to

oversee restoration of the Salton Sea. The council was directed to evaluate alternative Salton Sea restoration plans and to report to the Governor and the Legislature by June 30, 2013 with a recommended plan.

The QSA implementing legislation also established the Salton Sea Restoration Fund, to be funded in part by payments made by the parties to the QSA and fees on certain water transfers among the parties to the QSA. Under the QSA agreements Metropolitan agreed to pay \$20 per acre-foot into the Salton Sea Restoration Fund for any special surplus Colorado River water that Metropolitan elects to take under the Interim Surplus Guidelines, if available. Metropolitan also agreed to acquire up to 1.6 million acre-feet of water conserved by IID, excluding water transferred from IID to SDCWA (see “—*Sale of Water by the Imperial Irrigation District to San Diego County Water Authority*” below), if such water can be transferred consistent with plans for Salton Sea restoration, at an acquisition price of \$250 per acre-foot (in 2003 dollars), with net proceeds to be deposited into the Salton Sea Restoration Fund. No conserved water has been made available to Metropolitan under this program. Metropolitan elected not to take delivery of special surplus water at times when it was available from October 2003 to 2007. No special surplus water has been available since 2007. Metropolitan may receive credit for the special surplus water payments against future contributions for the Lower Colorado River Multi-Species Conservation Program (see “—*Environmental Considerations*” below). In consideration of these agreements, Metropolitan will not have or incur any liability for restoration of the Salton Sea. As part of an effort to mitigate the effects of the drought in the Colorado River Basin that began in 2000, Metropolitan elected not to take delivery of special surplus Colorado River water that was available from October 2003 through 2004 and from 2006 through 2007.

Sale of Water by the Imperial Irrigation District to San Diego County Water Authority. On April 29, 1998, SDCWA and IID executed an agreement (the “Transfer Agreement”) for SDCWA’s purchase from IID of Colorado River water ~~delivered to that is conserved within~~ IID. An amended Transfer Agreement, executed as one of the QSA agreements, set the maximum transfer amount at 205,000 acre-feet in 2021, with the transfer gradually ramping up to that amount over an approximately twenty-year period, stabilizing at 200,000 acre-feet per year beginning in 2023.

No facilities exist to deliver water directly from IID to SDCWA. Accordingly, Metropolitan and SDCWA entered into an exchange contract, pursuant to which SDCWA makes available to Metropolitan at its intake at Lake Havasu on the Colorado River the conserved Colorado River water acquired by SDCWA from IID and water allocated to SDCWA ~~deemed that has been~~ conserved as a result of the lining of the All-American and Coachella Canals. See “*Quantification Settlement Agreement*” above. Metropolitan delivers an equal volume of water from its own sources of supply through portions of its delivery system to SDCWA. The deliveries to both Metropolitan and SDCWA are deemed to be made in equal monthly increments. ~~Metropolitan makes no payment to SDCWA~~ In consideration for the conserved water made available to Metropolitan by SDCWA, but a lower rate is paid by SDCWA makes a payment to Metropolitan for the exchange water delivered by Metropolitan. The price payable by SDCWA is calculated using the charges set by Metropolitan’s Board from time to time to be paid by its member agencies for the conveyance of water through Metropolitan’s facilities. See “METROPOLITAN REVENUES—Wheeling and Exchange Charges” ~~in this Appendix A and “—Litigation Challenging Rate Structure” in this Appendix A for a description of Metropolitan’s charges for the conveyance of water through Metropolitan’s facilities and litigation in which SDCWA and IID are challenging such charges.~~ In 2009, 140,188 acre-feet were delivered by SDCWA for exchange, consisting of 60,000 acre-feet of IID conservation plus 25,759 acre-feet and 54,429 acre-feet of conserved water from the Coachella Canal and All-American Canal lining projects, respectively. In 2010, 151,507 acre-feet were delivered by SDCWA for exchange, consisting of 70,000 acre-feet of IID conservation plus 81,507 acre-feet of conserved water from the combined Coachella Canal and All-American Canal lining projects. In 2011, 143,243 acre-feet were delivered by SDCWA for exchange, consisting of 63,278 acre-feet of IID conservation plus 79,965 acre-feet of conserved water from the Coachella Canal and All-American Canal lining projects. ~~IID informed the Bureau of Reclamation that: in 2011, IID entered into following contracts for 80,000 acre feet, to be conserved partly in 2011 and partly in~~

~~2012, to support the transfer of 80,000 acre-feet from IID to SDCWA in 2011; in 2011 IID conserved 63,278 acre-feet under the following contracts to support the IID-SDCWA transfer~~

The QSA agreements provided for delivery of 80,000 acre-feet of water conserved by IID in 2011. The delivery of conserved water fell short by 16,722 acre-feet. The appropriate accounting for the 2011 IID-SDCWA transfer is under review by the Bureau of Reclamation and will be reflected in a future Colorado River Accounting and Water Use Report. In accordance with the terms of the exchange contract, Metropolitan served SDCWA with a Notice of Default. The exchange contract provides that SDCWA will pay the lower water rate based on deliveries of exchange water that match the value of conserved water made available by IID in each calendar year. Metropolitan has invoiced SDCWA for its higher water rate on the 16,722 acre-feet of additional non-exchange water delivered in 2011.

QSA Related Litigation. On November 5, 2003, IID filed a validation action in Imperial County Superior Court, seeking a judicial determination that thirteen agreements associated with the IID/SDCWA water transfer and the QSA are valid, legal and binding. Other lawsuits also were filed contemporaneously challenging the execution, approval and implementation of the QSA on various grounds. All of the QSA cases were coordinated in Sacramento Superior Court. Between early 2004 and late 2009, a number of pre-trial challenges and dispositive motions were filed by the parties and ruled on by the court, which reduced the number of active cases and narrowed the issues for trial, the first phase of which began on November 9, 2009 and concluded on December 2, 2009. One of the key issues in this first phase was the constitutionality of the QSA Joint Powers Agreement, pursuant to which IID, CVWD and SDCWA agreed to commit \$163 million toward certain mitigation and restoration costs associated with implementation of the QSA and related agreements, and the State agreed to be responsible for any costs exceeding this amount. A final judgment was issued on February 11, 2010, in which the trial court held that the State's commitment was unconditional in nature and, as such, violated the appropriation requirement and debt limitation under the California Constitution. The trial court also invalidated eleven other agreements, including the QSA, because they were inextricably interrelated with the QSA Joint Powers Agreement. Lastly, the trial court ruled that all other claims raised by the parties, including CEQA claims related to the QSA Programmatic EIR and the IID Transfer Project EIR, are moot.

In March 2010, Metropolitan, IID, CVWD, SDCWA, the State and others filed notices of appeal challenging various aspects of the trial court's ruling. On December 7, 2011, the court of appeal issued its ruling reversing, in part, the trial court's ruling. In particular, the court of appeal held that while the State's commitment to fund mitigation costs in excess of \$163 million was unconditional, actual payment of such costs was subject to a valid appropriation by the Legislature, as required under the California Constitution. Moreover, the State's commitment did not create a present debt in excess of the State Constitution's \$300,000 debt limit. Thus, the QSA Joint Powers Agreement was held to be constitutional. The court of appeal also rejected other challenges to this agreement, including that it was beyond the State's authority, there was no "meeting of the minds," and there was a conflict of interest. Finally, in light of its ruling, the court of appeal remanded the matter back to the trial court for further proceedings on the claims that had been dismissed as moot. The impact, if any, that this litigation might have on Metropolitan's water supplies cannot be adequately determined at this time.

On January 28, 2010, Metropolitan was served with a federal complaint filed by the County of Imperial and the Imperial County Air Pollution Control District alleging that execution and implementation of three QSA-related agreements violate NEPA and the federal Clean Air Act. The complaint named the Department of the Interior, Secretary of the Interior, Bureau of Reclamation and Commissioner of Reclamation as defendants, and Metropolitan, CVWD, IID and SDCWA as real parties in interest. With respect to NEPA, the complaint alleged that the environmental impact statement prepared by the Bureau of Reclamation; failed to adequately analyze potential impacts on the Salton Sea and on land use, growth and socioeconomics; improperly segmented various project components; failed to address cumulative impacts; and failed to address mitigation of potential impacts. With respect to the Clean Air Act, the complaint

alleged that the Bureau of Reclamation failed to conduct a conformity analysis as required under the Act and Imperial County Air Pollution Control District's own rules. On April 6, 2012, the court ruled against the plaintiffs and in favor of the defendants on all claims. The court held that the plaintiffs lacked standing to pursue NEPA and Clean Air Act claims and that the NEPA claims lacked merit. On May 4, 2012, the plaintiffs filed a notice of appeal. On May 22, the non-federal defendants filed a notice of cross-appeal. Briefing on all appeals is expected to be completed by the end of 2012.

The Navajo Nation has filed litigation against the Department of the Interior, specifically the Bureau of Reclamation and the Bureau of Indian Affairs, alleging that the Bureau of Reclamation has failed to determine the extent and quantity of the water rights of the Navajo Nation in the Colorado River and that the Bureau of Indian Affairs has failed to otherwise protect the interests of the Navajo Nation. The complaint challenges the adequacy of the environmental review for the Interim Surplus Guidelines (as defined under "*Interim Surplus Guidelines*" below) and seeks to prohibit the Department of the Interior from allocating any "surplus" water until such time as a determination of the rights of the Navajo Nation is completed. Metropolitan has filed a motion to intervene in this action. In October 2004 the court granted the motions to intervene and stayed the litigation to allow negotiations among the Navajo Nation, federal defendants, CAWCD, State of Arizona and Arizona Department of Water Resources. The Navajo Nation approved the terms of a proposed settlement in 2010. Under its terms the Navajo would have specified rights to water from the Colorado River, the Little Colorado River and groundwater basins under the reservation. All Colorado River water would come from Arizona's apportionment. There would be no financial or water resource impact on Metropolitan. The proposed agreement requires approval of all the affected bodies and federal implementing legislation. The litigation stay has been extended until February 15, 2013, to permit the parties to finalize the settlement. If the settlement is not finalized, the impact on Metropolitan, if any, cannot be adequately determined at this time.

Interim Surplus Guidelines. In January 2001, the Secretary of the Interior adopted guidelines (the "Interim Surplus Guidelines") for use through 2016 in determining if there is surplus Colorado River water available for use in California, Arizona and Nevada. The purpose of the Interim Surplus Guidelines is to provide a greater degree of predictability with respect to the availability and quantity of surplus water through 2016. The Interim Surplus Guidelines were amended in 2007, with the new Guidelines extending through 2026 (see "*Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell and Lake Mead*" below). The Interim Surplus Guidelines contain a series of benchmarks for reductions in agricultural use of Colorado River water within California by set dates.

Under the Interim Surplus Guidelines, Metropolitan initially expected to divert up to 1.25 million acre-feet of Colorado River water annually under foreseeable runoff and reservoir storage scenarios from 2004 through 2016. However, an extended drought in the Colorado River Basin reduced these initial expectations. From 2000 to 2004, snow pack and runoff in the Colorado River Basin were well below average. Although runoff was slightly above average in 2005 and 2008, average annual runoff from 2000 through 2010 was 69 percent of normal, representing the driest eleven-year period on record. In November 2010, Lake Mead's elevation had dropped below 1,081 feet above sea level, the lowest elevation since 1937. Precipitation over the Colorado River Basin from October 2010 through April 2011 was significantly above normal. Upper Colorado River Basin snowpack measured on May 1, 2011 was 150 percent of normal with accumulations at the highest level on record and the April-July runoff measuring 163 percent of normal. The above-normal precipitation triggered more than 4 million acre-feet of additional releases from Lake Powell to Lake Mead, the most since 1997. Lake Mead's elevation reached 1,133 feet in December 2011, approximately 51 feet higher than observed in November 2010. Each ten-foot increase in Lake Mead's elevation represents approximately 1 million acre-feet of increased storage. Metropolitan's 2011 Colorado River supply was 884,694 acre-feet. Metropolitan diverted over 698,990 acre-feet from the Colorado River during calendar year 2011, and left approximately 186,000 acre-feet for storage in Lake Mead as intentionally-created surplus water. As of August 5, 2012, Lake Mead's elevation was 1,116 feet.

SNWA and Metropolitan entered into an Agreement Relating to Implementation of Interim Colorado River Surplus Guidelines on May 16, 2002, in which SNWA and Metropolitan agreed to the allocation of unused apportionment as provided in the Interim Surplus Guidelines and on the priority of SNWA for interstate banking of water in Arizona. SNWA and Metropolitan entered into a storage and interstate release agreement on October 21, 2004. Under this program, Nevada can request that Metropolitan store unused Nevada apportionment in California. The amount of water stored through 2011 under this agreement was 70,000 acre-feet. In subsequent years, Nevada may request recovery of this stored water. As part of a recently executed amendment, it is expected that Nevada will not request return of this water before 2022. The stored water provides flexibility to Metropolitan for blending Colorado River water with State Water Project water and improves near-term water supply reliability.

Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell and Lake Mead. In November 2007, the Bureau of Reclamation issued a Final Environmental Impact Statement (“EIS”) regarding new federal guidelines concerning the operation of the Colorado River system reservoirs. These new guidelines provide water release criteria from Lake Powell and water storage and water release criteria from Lake Mead during shortage and surplus conditions in the Lower Basin, provide a mechanism for the storage and delivery of conserved system and non-system water in Lake Mead and extend the Interim Surplus Guidelines through 2026. The Secretary of the Interior issued the final guidelines through a Record of Decision signed in December 2007. The Record of Decision and accompanying agreement among the Colorado River Basin States protect reservoir levels by reducing deliveries during drought periods, encourage agencies to develop conservation programs and allow the states to develop and store new water supplies. The Colorado River Basin Project Act of 1968 insulates California from shortages in all but the most extreme hydrologic conditions.

Intentionally-Created Surplus Program. Metropolitan and the Bureau of Reclamation executed an agreement on May 26, 2006 for a demonstration program that allowed Metropolitan to leave conserved water in Lake Mead that Metropolitan would otherwise have used in 2006 and 2007. Only “intentionally-created surplus” water (water that has been conserved through an extraordinary conservation measure, such as land fallowing) was eligible for storage in Lake Mead under this program. See the table “Metropolitan’s Water Storage Capacity and Water in Storage” under the heading “—Storage Capacity and Water in Storage” below. Metropolitan may store additional intentionally-created surplus water in Lake Mead under the federal guidelines for operation of the Colorado River system reservoirs described above under the heading “*Lower Basin Shortage Guidelines and Coordinated Management Strategies for Lake Powell and Lake Mead.*” The Secretary of the Interior will deliver intentionally-created surplus water to Metropolitan in accordance with the terms of a December 13, 2007 Delivery Agreement between the United States and Metropolitan. As of January 2012, Metropolitan had approximately 434,840 acre-feet in its intentionally-created surplus accounts, made up of water conserved by fallowing in the Palo Verde Valley and from the yield allocated to Metropolitan from the Drop 2 Reservoir Project and the Yuma Desalting Plant pilot run. Metropolitan stored 193,351 acre-feet of intentionally-created surplus water in 2011, including 7,647 acre-feet as a result of the Yuma Desalting Plant pilot run.

Environmental Considerations. Federal and state environmental laws protecting fish species and other wildlife species have the potential to affect Colorado River operations. A number of species that are on either “endangered” or “threatened” lists under the ESAs are present in the area of the Lower Colorado River, including among others, the bonytail chub, razorback sucker, southwestern willow flycatcher and Yuma clapper rail. To address this issue, a broad-based state/federal/tribal/private regional partnership that includes water, hydroelectric power and wildlife management agencies in Arizona, California and Nevada have developed a multi-species conservation program for the main stem of the Lower Colorado River (the Lower Colorado River Multi-Species Conservation Program or “MSCP”). The MSCP allows Metropolitan to obtain federal and state permits for any incidental take of protected species resulting from current and future water and power operations of its Colorado River facilities and to minimize any uncertainty from additional listings of endangered species. The MSCP also covers operations of federal dams and power

plants on the river that deliver water and hydroelectric power for use by Metropolitan and other agencies. The MSCP covers 27 species and habitat in the Lower Colorado River from Lake Mead to the Mexican border for a term of 50 years. The total cost of the MSCP to Metropolitan will be about \$88 million (in 2003 dollars), and will range between \$0.8 million and \$4.6 million annually.

The non-profit conservation organization Grand Canyon Trust filed litigation in December 2007 against the Bureau of Reclamation in the United States District Court for the District of Arizona, alleging that the Bureau of Reclamation's planning for, and operation of, the Glen Canyon Dam in the Upper Basin of the Colorado River system (which impounds Lake Powell) does not comply with requirements of NEPA and the Federal ESA. ~~Grand Canyon Trust later named the USFWS as a defendant. Metropolitan, IID and CAWCD have~~ Metropolitan, IID, CAWCD, the seven basin states and several water and energy agencies intervened in this case. ~~On May 27, 2009, the court ordered the Bureau of Reclamation to reconsider how the dam flows may harm the endangered fish and develop a new operating plan. Grand Canyon Trust filed its third supplemental complaint challenging the Bureau of Reclamation's latest schedule of releases from Lake Powell on September 23, 2010.~~ On March 29, 2011, the ~~court issued a final ruling~~ trial court issued a final judgment upholding the Bureau of Reclamation's prior decisions for Glen Canyon Dam operations. The Grand Canyon Trust appealed. ~~Oral arguments before the U.S. On August 13, 2012, the United States Court of Appeals for the Ninth Circuit were held on June 11, 2012.~~ affirmed the decision of the Arizona district court. The Grand Canyon Trust has a 45-day period in which to request a rehearing by a larger panel of Ninth Circuit justices.

Quagga Mussel Control Program. In January 2007 quagga mussels were discovered for the first time in Lake Mead. Quagga mussels can reproduce quickly and, if left unmanaged, can clog intakes and raw water conveyance systems, alter or destroy fish habitats and affect lakes and beaches. Quagga mussels were introduced in the Great Lakes in the late 1980s. These organisms infest much of the Great Lakes basin, the St. Lawrence Seaway, and much of the Mississippi River drainage system. The most likely source of the quagga mussel infestation is recreational boats from water bodies around the Great Lakes, which were transported over 1,000 miles west to Lake Mead. In response to the Lake Mead finding, the California Department of Fish and Game created a multi-agency task force with Metropolitan as one of its members. The initial survey of the Colorado River to ascertain the extent of the quagga mussel colonization detected low densities in Lake Mead, Lake Mohave and Lake Havasu and in the intake of the Central Arizona Project. Quagga mussels were also detected at the Colorado River Aqueduct intake pumping plant, Gene Wash and Copper Basin reservoirs, in portions of the Colorado River Aqueduct and in Lake Skinner. A three-week shutdown of the Colorado River Aqueduct for rehabilitation and repairs in March 2007 also permitted inspection for quagga mussels. Desiccation of mussels from emptying the aqueduct during the shutdown, followed by a week of chlorination to kill or limit spread of any remaining mussels after the aqueduct was placed back in service, helped control mussels found there. Shutdowns of the Colorado River Aqueduct in July 2007, October 2007 and March 2008 permitted additional quagga mussel inspection and facilitated some control measures.

Metropolitan is working to enhance its ability to detect the mussels, studying mussel transport and settling in Metropolitan conveyance systems, assessing additional, more cost-effective methods to control mussels and developing and implementing control strategies for mussels in Metropolitan's lakes and reservoirs. The California Department of Fish and Game has approved Metropolitan's recreational facilities and boating plan for Diamond Valley Lake and Lake Skinner, which requires inspection of boats and quarantine of those that are potential carriers of mussels, and Metropolitan's water releases management plan, which should minimize the potential for mussels to be introduced into new water bodies while allowing for water releases associated with dewatering of aqueducts and pipelines for maintenance, repair, or upgrades. In addition, the California Department of Fish and Game provided Metropolitan with a permit approving laboratory research on quagga mussels to advance the understanding of mussel biology in California and benefit future efforts to manage the invasive species. Future quagga mussel control efforts are expected to include infrastructure upgrades and recommendations on boating practices or additional facilities

to control the spread of mussels in the Colorado River Aqueduct system and additional long-term measures. In September 2007, the Board appropriated \$5.91 million for design and construction of interim chlorination facilities at Copper Basin and Lake Mathews, design of permanent chlorination facilities at Copper Basin, Lake Mathews and Diamond Valley Lake and related quagga mussel control measures. In February 2008, the Board appropriated \$1.77 million for a new chlorine injection point at the Lake Skinner Outlet Conduit and for the procurement of liquid chlorine trailers and mobile chlorination units. In August 2008, the Board appropriated an additional \$1.87 million to complete the chlorination facilities at Copper Basin and Lake Mathews and in June 2009, the Board appropriated \$1.13 million for design and construction of a chlorination system to control quagga mussel growth at the Skinner oxidation retrofit facilities. Metropolitan estimates that its costs for controlling quagga mussels could exceed \$10 million per year.

Water Transfer, Storage and Exchange Programs

General. California's agricultural activities consume approximately 34 million acre-feet of water annually, which is approximately 80 percent of the total water used for agricultural and urban uses and 40 percent of the water used for all consumptive uses, including environmental demands. Voluntary water transfers and exchanges can make a portion of this agricultural water supply available to support the State's urban areas. Such existing and potential water transfers and exchanges are an important element for improving the water supply reliability within Metropolitan's service area and accomplishing the reliability goal set by Metropolitan's Board. Metropolitan is currently pursuing voluntary water transfer and exchange programs with State, federal, public and private water districts and individuals. The following are summary descriptions of some of these programs.

Arvin-Edison/Metropolitan Water Management Program. In December 1997, Metropolitan entered into an agreement with the Arvin-Edison Water Storage District ("Arvin-Edison"), an irrigation agency located southeast of Bakersfield, California. Under the program, Arvin-Edison stores water on behalf of Metropolitan. In January 2008, Metropolitan and Arvin-Edison amended the agreement to enhance the program's capabilities and to increase the delivery of water to the California Aqueduct. Up to 350,000 acre-feet of Metropolitan's water may be stored and Arvin-Edison is obligated to return up to 75,000 acre-feet of stored water in any year to Metropolitan, upon request. The agreement will terminate in 2035 unless extended. To facilitate the program, new wells, spreading basins and a return conveyance facility connecting Arvin-Edison's existing facilities to the California Aqueduct have been constructed. The agreement also provides Metropolitan priority use of Arvin-Edison's facilities to convey high quality water available on the east side of the San Joaquin Valley to the California Aqueduct. Metropolitan's current storage account under the Arvin-Edison/Metropolitan Water Management Program is shown in the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading, "—Storage Capacity and Water in Storage" below.

Semitropic/Metropolitan Groundwater Storage and Exchange Program. In 1994 Metropolitan entered into an agreement with the Semitropic Water Storage District ("Semitropic"), located adjacent to the California Aqueduct north of Bakersfield, to store water in the groundwater basin underlying land within Semitropic. The minimum annual yield available to Metropolitan from the program is 31,500 acre-feet of water and the maximum annual yield is 223,000 acre-feet of water depending on the available unused capacity and the State Water Project allocation. Metropolitan's current storage account under the Semitropic program is shown in the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading, "—Storage Capacity and Water in Storage" below.

California Aqueduct Dry-Year Transfer Program. Metropolitan has entered into agreements with the Kern Delta Water District, the Mojave Water Agency (Demonstration Water Exchange Program) and the San Bernardino Valley Municipal Water District ("SBVMWD") to insure against regulatory and operational uncertainties in the State Water Project system that could impact the reliability of existing supplies. The total

potential yield for the three agreements is approximately 80,000 acre-feet of water per year when sufficient water is available.

Metropolitan entered into an agreement with SBVMWD in April 2001 to coordinate the use of facilities and State Water Project water supplies. The agreement allows Metropolitan a minimum purchase of 20,000 acre-feet on an annual basis with the option to purchase additional water when available. Also, the program includes 50,000 acre-feet of carryover storage. In addition to water being supplied using the State Water Project, the previously stored water can be returned using an interconnection between the San Bernardino Central Feeder and Metropolitan's Inland Feeder. This program terminates on December 31, 2014. Metropolitan entered into an agreement with Kern Delta Water District on May 27, 2003, for a groundwater banking and exchange transfer program to allow Metropolitan to store up to 250,000 acre-feet of State Water Contract water in wet years and permit Metropolitan, at Metropolitan's option, a return of up to 50,000 acre-feet of water annually during hydrologic and regulatory droughts. Additionally, Metropolitan entered into a groundwater banking and exchange transfer agreement with Mojave Water Agency on October 29, 2003. This agreement was amended in 2011 to allow for the cumulative storage of up to 390,000 acre-feet. The agreement allows for Metropolitan to store water in an exchange account for later return. Metropolitan's current storage account under these programs is shown in the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading, "—Storage Capacity and Water in Storage" below.

Other Water Purchase, Storage and Exchange Programs in the San Joaquin and Sacramento Valleys. Metropolitan has been negotiating, and will continue to pursue, water purchase, storage and exchange programs with other agencies in the Sacramento and San Joaquin Valleys. These programs involve the storage of both State Water Project supplies and water purchased from other sources to enhance Metropolitan's dry-year supplies and the exchange of normal year supplies to enhance Metropolitan's water reliability and water quality, in view of dry conditions and potential impacts from the ESA cases discussed above under the heading "—State Water Project—*Endangered Species Act Considerations.*" In addition, in the fall of 2008 DWR convened the State Drought Water Bank (the "Drought Water Bank") as a one-year program to help mitigate water shortages in 2009. During 2009, Metropolitan purchased 36,900 acre-feet of Central Valley Water supplies through the Drought Water Bank, resulting in approximately 29,000 acre-feet of water deliveries after accounting for carriage and conveyance losses. In calendar year 2010, Metropolitan participated with other State Water Contractors as a group to purchase 88,137 acre-feet of water, resulting in approximately 68,000 acre-feet of deliveries to Metropolitan after carriage and conveyance losses. Additionally during 2010, Metropolitan entered into two transactions with the Westlands Water District and the San Luis Water District, neither of which is subject to carriage losses. Under the first transaction, Metropolitan purchased 18,453 acre-feet of water. In the second, Metropolitan accepted delivery of 110,692 acre-feet of water stored in the San Luis Reservoir and returned two-thirds of that amount from Metropolitan's State Water Project supply in 2011 for a net yield of approximately 37,000 acre-feet.

Metropolitan entered into an agreement with DWR in December 2007 to purchase a portion of the water released by the Yuba County Water Agency ("YCWA"). YCWA was involved in a SWRCB proceeding in which it was required to increase Yuba River fishery flows. Within the framework of agreements known as the Yuba River Accord, DWR and the Bureau of Reclamation entered into agreements for the long-term purchase of water from YCWA. Metropolitan and other State Water Project contractors entered into separate agreements with DWR for purchase of portions of the water made available. Metropolitan's agreement allows Metropolitan to purchase at least 13,750 acre-feet to 35,000 acre-feet per year of water supplies in dry years through 2025. The agreement permits YCWA to transfer additional supplies at its discretion. For calendar years 2008, 2009 and 2010, Metropolitan purchased 26,430 acre-feet, 42,915 acre-feet and 67,068 acre-feet of water, respectively, from YCWA under this program. YCWA did not offer transfer supplies in calendar year 2011.

Metropolitan/CVWD/Desert Water Agency Exchange and Advance Delivery Agreement. Metropolitan has agreements with the CVWD and the Desert Water Agency ("Desert") that require Metropolitan to exchange its Colorado River water for those agencies' State Water Project contractual water on an annual basis. Because Desert and CVWD do not have a physical connection to the State Water Project, Metropolitan takes delivery of Desert's and CVWD's State Water Project supplies and delivers a like amount of Colorado River water to the agencies. In accordance with an advance delivery agreement executed by Metropolitan, CVWD and Desert, Metropolitan has delivered Colorado River water in advance to these agencies for storage in the Upper Coachella Valley groundwater basin. In years when it is necessary to augment available supplies to meet local demands, Metropolitan has the option to meet the exchange delivery obligation through drawdowns of the advance delivery account, rather than deliver its Colorado River supply. Metropolitan's current storage account under the CVWD/Desert program is shown in the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading, "—Storage Capacity and Water in Storage" below. In addition to the CVWD/Desert exchange agreements, Metropolitan has entered into separate agreements with CVWD and Desert for delivery of non-State Water Project supplies acquired by CVWD or Desert. Similarly, Metropolitan takes delivery of these supplies from State Water Project facilities and incurs an exchange obligation to CVWD or Desert. Since 2008, Metropolitan has received a net additional supply of 28,058 acre-feet of water acquired by CVWD and Desert.

Other Agreements. Metropolitan is entitled to storage and access to stored water in connection with various storage programs and facilities. See "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct" and "REGIONAL WATER RESOURCES—Local Water Supplies—*Conjunctive Use*" in this Appendix A, as well as the table "Metropolitan's Water Storage Capacity and Water in Storage" under the heading, "—Storage Capacity and Water in Storage" below.

Storage Capacity and Water in Storage

Metropolitan's storage capacity, which includes reservoirs, conjunctive use and other groundwater storage programs within Metropolitan's service area and groundwater and surface storage accounts delivered through the State Water Project or Colorado River Aqueduct, is approximately 5.54 million acre-feet. In 2011, approximately 626,000 acre-feet of stored water was emergency storage that was reserved for use in the event of supply interruptions from earthquakes or similar emergencies (see "METROPOLITAN'S WATER DELIVERY SYSTEM—Seismic Considerations" in this Appendix A), as well as extended drought. Metropolitan's emergency storage requirement is established periodically to provide a six-month water supply at 75 percent of member agencies retail demand under normal hydrologic conditions. Metropolitan's ability to replenish water storage, both in the local groundwater basins and in surface storage and banking programs, has been limited by Bay-Delta pumping restrictions under the Interim Remedial Order in *NRDC v. Kemphorne* and the biological opinions issued for listed species. See "—State Water Project—*Endangered Species Act Considerations*" above. Metropolitan replenishes its storage accounts when imported supplies exceed demands. Effective storage management is dependent on having sufficient years of excess supplies to store water so that it can be used during times of shortage. Historically, excess supplies have been available in about seven of every ten years. Metropolitan forecasts that, with anticipated supply reductions from the State Water Project due to pumping restrictions, it will need to draw down on storage in about seven of ten years and will be able to replenish storage in about three years out of ten. This reduction in available supplies extends the time required for storage to recover from drawdowns and could require Metropolitan to implement its Water Supply Allocation Plan during extended dry periods.

As a result of increased State Water Project supplies and reduced demands in 2010 and 2011, Metropolitan has rebuilt its storage after several years of withdrawals. From 2007 to 2009 Metropolitan drew down approximately one million acre-feet of its stored water to meet regional demands. During calendar year 2011, Metropolitan increased storage of State Water Project supplies in Central Valley groundwater storage programs by about 297,000 acre-feet. In addition, storage in Diamond Valley Lake on January 1, 2012 was approximately 786,000 acre-feet, an increase of about 148,000 acre-feet from Diamond

Valley Lake's level on January 1, 2011. Metropolitan increased aggregate storage by approximately 698,000 acre-feet in 2011. This brought total storage at the end of 2011 to approximately 3.03 million acre-feet, including emergency storage, which was the highest end-of-year total reserves in Metropolitan's history. At its previous highest level in July 2006, Metropolitan's storage was 2.74 million acre-feet, including emergency storage. The following table shows Metropolitan's storage, including emergency storage, as of January 1, 2012.

METROPOLITAN'S WATER STORAGE CAPACITY AND WATER IN STORAGE⁽¹⁾
(in Acre-Feet)

<u>Water Storage Resource</u>	<u>Storage Capacity</u>	<u>Water in Storage January 1, 2012</u>	<u>Water in Storage January 1, 2011</u>	<u>Water in Storage January 1, 2010</u>
<i>Colorado River Aqueduct</i>				
Desert / CVWD Advance Delivery Account				
	800,000	209,000	178,000	45,000
Lake Mead ICS	1,500,000	435,000	256,000	146,000
CAWCD	n/a ⁽²⁾	-0-	-0-	8,000
Subtotal	2,300,000	644,000	434,000	199,000
<i>State Water Project</i>				
Arvin-Edison Storage Program	350,000	166,000	109,000	95,000
Semitropic Storage Program	350,000	245,000	111,000	44,000
Kern Delta Storage Program	250,000	135,000	82,000	10,000
San Bernardino Valley MWD Coordinated Operating Agreement	50,000	-0-	-0-	-0-
Mojave Storage Program	390,000 ⁽⁵⁾	45,000	-0-	3,000
Castaic Lake and Lake Perris ⁽³⁾	219,000	219,000	219,000	175,000
Metropolitan Article 56 Carryover ⁽⁴⁾	200,000 ⁽⁶⁾	200,000	-0-	68,000
Other State Water Project Carryover	n/a ⁽⁷⁾	43,000	162,000	64,000
Emergency Storage	334,000 ⁽⁸⁾	334,000	334,000	334,000
Subtotal	2,143,000	1,387,000	1,017,000	793,000
<i>Within Metropolitan's Service Area⁽⁹⁾</i>				
Diamond Valley Lake	810,000	786,000	638,000	384,000
Lake Mathews	182,000	142,000	139,000	125,000
Lake Skinner	44,000	37,000	40,000	36,000
Subtotal	1,036,000	965,000	817,000	545,000
<i>Member Agency Storage Programs</i>				
Cyclic Storage, Conjunctive Use, and Supplemental Storage	452,000	31,000	60,000	80,000
Total	5,931,000	3,027,000	2,328,000	1,617,000

Source: Metropolitan.

- (1) Water storage capacity and water in storage are based on accounting estimates and are subject to change.
- (2) Metropolitan has recovered the remaining balance and the storage agreement with Central Arizona Water Conservation District has been closed.
- (3) Flexible storage allocated to Metropolitan under its State Water Contract.
- (4) Article 56 Carryover storage capacity is dependent on the annual State Water Project allocation, which varies from year to year. Article 56 water is unused water that is allocated to a state water contractor in a given year pursuant to the State Water Contract. Metropolitan's carryover water is stored in the San Luis Reservoir.
- (5) Following a period during which Metropolitan was not permitted to increase storage, the Mojave Storage Program agreement was amended in 2011 to allow for cumulative storage of up to 390,000 acre-feet. (Footnotes continued on next page)

- (6) Metropolitan's State Water Project carryover capacity ranges from 100,000 to 200,000 acre-feet, on a sliding scale that depends on the final State Water Project allocation. At allocations of 50 percent or less, Metropolitan may store 100,000 acre-feet, and at allocations of 75 percent or greater, Metropolitan may store up to 200,000 acre-feet. For the purposes of this table, the highest possible carryover capacity is displayed.
- (7) At Metropolitan's request Desert Water Agency and CVWD exercise their State Water Contract carryover rights. It is listed as "n/a" due to the unpredictable nature of the actual storage capacity available.
- (8) In 2010, the portion of State Water Project reservoir storage classified as emergency storage was reduced from 351,000 acre-feet to 334,000 acre-feet.
- (9) Includes emergency storage in Metropolitan's reservoirs: 319,000 acre-feet in 2009 and 292,000 acre-feet in 2010 and 2011, respectively.

Water Conservation

The central objective of Metropolitan's water conservation program is to help ensure adequate, reliable and affordable water supplies for Southern California by actively promoting efficient water use. The importance of conservation to the region has increased in recent years because of drought conditions in the State Water Project watershed and court-ordered restrictions on Bay-Delta pumping, as described under "METROPOLITAN'S WATER SUPPLY—State Water Project" in this Appendix A. Water conservation is an integral component of Metropolitan's IRP Strategy, Water Surplus and Drought Management Plan and Water Supply Allocation Plan, each described in this Appendix A under "METROPOLITAN'S WATER SUPPLY."

Metropolitan's conservation program has largely been developed to assist its member agencies in meeting the "best management practices" ("BMP") of the California Urban Water Conservation Council's Memorandum of Understanding Regarding Urban Water Conservation in California ("CUWCC MOU") and to meet the conservation goals of the 2010 IRP Update. See "—Integrated Water Resources Plan" above. Under the terms of the CUWCC MOU and Metropolitan's Conservation Credits Program, Metropolitan assists and co-funds member agency conservation programs designed to achieve greater water use efficiency in residential, commercial, industrial, institutional and landscape uses. Metropolitan uses its Water Stewardship Rate, which is charged for every acre-foot of water conveyed by Metropolitan, together with available grant funds, to fund conservation incentives and other water management programs. All users of Metropolitan's system benefit from the system capacity made available by investments in demand management programs like the Conservation Credits Program. See "METROPOLITAN REVENUES—Rate Structure—*Water Stewardship Rate*" in this Appendix A. Direct spending by Metropolitan on active conservation incentives, including rebates for water-saving plumbing fixtures, appliances and equipment, from fiscal year 1989-90 through fiscal year 2011-12 was more than \$320 million. The 2010 Integrated Water Resources Plan Update estimates that 1,037,000 acre-feet of water will be conserved annually in southern California by 2025. See "METROPOLITAN'S WATER SUPPLY—Integrated Water Resources Plan."

The Water Surplus and Drought Management Plan ("WSDM Plan"), which was adopted by Metropolitan's Board in April 1999, evolved from Metropolitan's experiences during the droughts of 1976-77 and 1987-92. The WSDM Plan splits resource actions into two major categories: Surplus Actions and Shortage Actions. The Surplus Actions store surplus water, first inside then outside the region. The Shortage Actions of the WSDM Plan are split into three sub-categories: Shortage, Severe Shortage, and Extreme Shortage. Each category has associated actions that could be taken as a part of the response to prevailing shortage conditions. Conservation and water efficiency programs are part of Metropolitan's resource management strategy through all categories.

Metropolitan's plan for allocation of water supplies in the event of shortage (the "Water Supply Allocation Plan"; see "—Water Supply Allocation Plan" below) allocates Metropolitan's water supplies among its member agencies, based on the principles contained in the WSDM Plan, to reduce water use and drawdowns from water storage reserves. Metropolitan's member agencies and retail water suppliers in Metropolitan's service area also have the ability to implement water conservation and allocation programs,

and some of the retail suppliers in Metropolitan's service area have initiated conservation measures. The success of conservation measures in conjunction with the Water Supply Allocation Plan is evidenced as a contributing factor in the lower than budgeted water sales during fiscal years 2009-10 and 2010-11.

Legislation approved in November 2009 sets a statewide conservation target for urban per capita water use of 20 percent reductions by 2020 (with credits for existing conservation) at the retail level, providing an additional catalyst for conservation by member agencies and retail suppliers. (See "—State Water Project—*Bay-Delta Regulatory and Planning Activities*" above.) Metropolitan's water sales projections incorporate an ~~accounting~~ *estimate* of conservation savings that will reduce retail demands. Current projections include an estimate of additional water use efficiency savings that would result from local agencies reducing their per capita water use in response to the 20 percent by 2020 conservation savings goals required by recent legislation as well as an estimate of additional conservation that would have to occur to reach Metropolitan's IRP goal of reducing overall regional per capita water use by 20 percent by 2020.

Water Supply Allocation Plan

The Water Supply Allocation Plan provides a formula for equitable distribution of available water supplies in case of extreme water shortages within Metropolitan's service area. Delivery within a member agency of more than its allocated amount of Metropolitan supplies will subject the member agency to a penalty of one to four times Metropolitan's full service rate for untreated Tier 2 water, depending on how much the member agency's water use for the twelve-month period beginning on July 1 exceeds its allocated amount. See "METROPOLITAN REVENUES—Water Rates by Water Category" in this Appendix A. Any penalties collected may be rebated to the member agency that paid them to fund water management projects.

The Water Supply Allocation Plan was approved by the Board in February 2008. On April 14, 2009, Metropolitan's Board adopted a resolution declaring a regional water shortage and implementing the Water Supply Allocation Plan, effective July 1, 2009. The Board set the "Regional Shortage Level" at Water Supply Allocation Plan Level 2, which required reduction of regional water use by approximately ten percent and resulted in a total allocation of about 2.09 million acre-feet of Metropolitan water in fiscal year 2009-10. On April 13, 2010, the Board adopted a resolution recognizing the continuing regional water shortage and again setting the Regional Shortage Level at Water Supply Allocation Plan Level 2, which sustained the regional water use reduction of approximately 10 percent. Due to improved hydrologic and storage conditions, on April 12, 2011, the Board terminated implementation of the 2010-11 Water Supply Allocation Plan, restoring imported water deliveries to member agencies without risk of allocation penalties. Although the Act gives each of Metropolitan's member agencies a preferential entitlement to purchase a portion of the water served by Metropolitan (see "METROPOLITAN REVENUES—Preferential Rights"), historically, these rights have not been used in allocating Metropolitan's water.

Metropolitan's member agencies and retail water suppliers in Metropolitan's service area also may implement water conservation and allocation programs within their respective service territories in times of shortage.

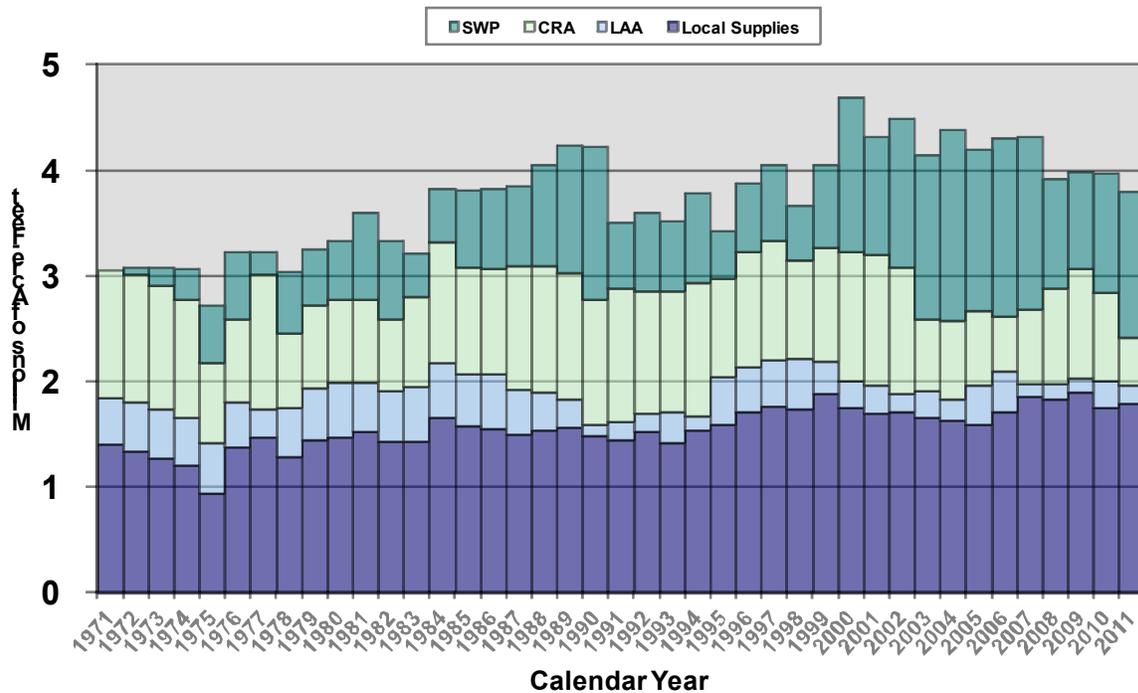
REGIONAL WATER RESOURCES

The water supply for Metropolitan's service area is provided in part by Metropolitan and in part by non-Metropolitan sources available to members. Approximately 60 percent of the water supply for Metropolitan's service area is imported water received by Metropolitan from its Colorado River Aqueduct and the State Water Project and by the City of Los Angeles (the "City") from the Los Angeles Aqueduct. While the City is one of the largest water customers of Metropolitan, it receives a substantial portion of its water from the Los Angeles Aqueduct and local groundwater supply. The balance of water within the region is produced locally, primarily from groundwater supplies and runoff.

Metropolitan's member agencies are not required to purchase or use any of the water available from Metropolitan. Some agencies depend on Metropolitan to supply ~~100 percent~~ nearly all of their water needs, regardless of the weather. Other agencies, with local surface reservoirs or aqueducts that capture rain or snowfall, rely on Metropolitan more in dry years than in years with heavy rainfall, while others, with ample groundwater supplies, purchase Metropolitan water only to supplement local supplies ~~or~~ and to recharge groundwater basins. The demand for supplemental supplies provided by Metropolitan is dependent on water use at the retail consumer level and the amount of locally supplied ~~water~~ and conserved water. See "METROPOLITAN'S WATER SUPPLY—Water Conservation" and "—Local Water Supplies" below. Consumer demand and locally supplied water vary from year to year, resulting in variability in water sales. Future reliance on Metropolitan supplies will be dependent, among other things, on local projects and the amount of water, if any, that may be derived from sources other than Metropolitan. In recent years, supplies and demands have been affected by drought, water use restrictions, economic conditions, weather conditions and environmental laws, regulations and judicial decisions, as described above under "METROPOLITAN'S WATER SUPPLY." For information on Metropolitan's water sales revenues, see "METROPOLITAN REVENUES" and "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" in this Appendix A.

The following graph shows a summary of the regional sources of water supply for the years 1971 to 2011. Local supplies available within Metropolitan's service area are augmented by water imported by the City through the Los Angeles Aqueduct ("LAA") and Metropolitan supplies provided through the Colorado River Aqueduct ("CRA") and the State Water Project ("SWP").

**Sources of Water Supply in the Metropolitan Service Area
(1971-2011)**



Source: Metropolitan.

The major sources of water for Metropolitan's member agencies in addition to supplies provided by Metropolitan are described below.

Los Angeles Aqueduct

The City, through its Department of Water and Power, operates its Los Angeles Aqueduct system to import water from the Owens Valley and the Mono Basin on the eastern slopes of the Sierra Nevada in eastern California. Prior to the 1990-1991 drought, the City had imported an average of ~~460,000~~440,000 acre-feet of water annually from the combined Owens Valley/Mono Basin system, of which about 90,000 acre-feet came from the Mono Basin. Under the Mono Lake Basin Water Right Decision (Decision 1631) issued in September 1994, which revised the Department of Water and Power's water rights licenses in the Mono Basin, the City is limited to export 16,000 acre-feet annually from the Mono Basin until it reaches its target elevation of 6,391 feet above mean sea level.

Pursuant to the City's turnout agreement with DWR, Antelope Valley-East Kern Water Agency ("AVEK") and Metropolitan, the Department of Water and Power commenced construction in 2010 of the turnout facilities along the California Aqueduct within AVEK's service area. Upon completion, expected in approximately ~~September 2014,~~January 2015, the turnout will enable delivery of water from the California Aqueduct to the Los Angeles Aqueduct. Conditions precedent to such delivery of water include obtaining agreements for the transfer of non-State Water Project water directly from farmers, water districts or others in Northern and Central California, available capacity in the California Aqueduct and compliance with State Water Project water quality requirements. The agreement ~~limits~~allows for use of the turnout to delivery of non-State Water Project water annually to the City in amounts not to exceed the supplies lost to the City as a result of its Eastern Sierra environmental obligations, including water for the Lower Owens River Project and the Owens Lake Dust Mitigation Project which could use up to 95,000 acre-feet of Los Angeles Aqueduct water. Historically, the Los Angeles Aqueduct and local groundwater supplies have been nearly sufficient to meet the City's water requirements during normal water supply years. As a result, prior to the 1990-1991 drought only about 13 percent of the City's water needs (approximately ~~85,000~~82,000 acre-feet) were supplied by Metropolitan. From fiscal year 2000-01 to fiscal year 2010-11, approximately 32 to 71 percent of the City's total water requirements were met by Metropolitan. For the five fiscal years ended June 30, 2012, the City's water deliveries from Metropolitan averaged approximately ~~300,000~~301,000 acre-feet per year, which constituted approximately ~~52~~51 percent of the City's total water supply. Deliveries from Metropolitan to the City during this period varied between approximately 167,000 acre-feet per year and approximately 433,000 acre-feet per year. See "METROPOLITAN REVENUES—Principal Customers" in this Appendix A. According to the Los Angeles Department of Water and Power's Year 2010 Urban Water Management Plan, the City is planning to increase locally-developed supplies including recycled water, new conservation, stormwater recapture and groundwater cleanup from the average for the five-year period ending June 30, 2010 of 12 percent to 43 percent of its normal year supplies by fiscal year 2034-35. Accordingly, the City's reliance on Metropolitan supplies will decrease from the five year average ending June 30, 2011 of 52 percent to 24 percent of its normal year supplies by fiscal year 2034-35. However, the City may still purchase up to 511,000 acre-feet per year or 82 percent of its dry year supplies from Metropolitan over the next 25 years. This corresponds to an increase from normal to dry years of approximately 255,000 acre-feet in potential demand for supplies from Metropolitan. The level of water sales estimated in Metropolitan's adopted biennial budget and revenue requirements for fiscal years 2012-13 and 2013-14 reflect local supplies from the Los Angeles Aqueduct system and other systems at higher than normal levels based on hydrologic conditions that occurred in 2010 and 2011.

The City's Department of Water and Power has indicated that it is currently analyzing additional impacts to the Los Angeles Aqueduct's water supply deliveries of various environmental projects aimed at improving air quality and fish and riparian habitat in the Owens Valley. ~~The City's future reliance on Metropolitan supplies will be dependent on these projects and the amount of water, if any, that may be derived from sources other than Metropolitan.~~

Local Water Supplies

Local water resources include groundwater production, recycled water production and diversion of surface flows. While local water resources are non-Metropolitan sources of water supply, Metropolitan has executed agreements for storage of Metropolitan supplies in local groundwater basins and provided incentives for local supply development as described below. Member agencies and other local agencies have also independently funded and developed additional local supplies, including groundwater storage and clean-up, recycled water and desalination of brackish or high salt content water.

Metropolitan's water sales projections are based in part on projections of locally-supplied water. Projections of future local supplies are based on estimated yields from sources and projects that are currently producing water or are under construction at the time a water sales projection is made. Additional reductions in Metropolitan's water sales projections are made to account for future local supply augmentation projects, based on the 2010 IRP Update goals. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Projections" and "METROPOLITAN'S WATER SUPPLY—Integrated Water Resources Plan."

Groundwater. Demands for about 1.5 million acre-feet per year, about one-third of the annual water demands for almost 18 million residents of Metropolitan's service area, are met from groundwater production. Local groundwater supplies are supported by recycled water, which is blended with imported water and recharged into groundwater basins, and also used for creating seawater barriers that protect coastal aquifers from seawater intrusion.

Groundwater Storage Programs. Metropolitan has executed agreements with a number of agencies to develop groundwater storage projects in its service area. These projects are designed to help meet the water delivery reliability goals of storing surplus imported supplies when available so that local agencies can withdraw stored groundwater during droughts or other periods of water supply shortage. In 2000, Metropolitan was allocated \$45 million in State Proposition 13 bond proceeds to develop groundwater storage projects in Metropolitan's service area. The nine projects in this program, under agreements with Long Beach, Chino Basin, Orange County Basin, Three Valleys Municipal Water District/City of La Verne, Foothill Municipal Water District, Compton and Western Municipal Water District/Elsinore Valley Municipal Water District, provide over 210,000 acre-feet of groundwater storage. The nine programs have a combined extraction capacity of over 68,000 acre-feet per year. During fiscal year 2008-09, over 70,000 acre-feet of stored water was produced and sold from these storage accounts. Fiscal year 2009-10 sales from the nine accounts totaled nearly 41,000 acre-feet, leaving a balance of approximately 26,000 acre-feet in the storage accounts. [Metropolitan began refilling the programs in fiscal year 2010-11.](#) As of July 1, 2012, the balance in the nine accounts was over 66,000 acre-feet. See table "Metropolitan's Water Storage Capacity and Water in Storage" under "METROPOLITAN'S WATER SUPPLY—Storage Capacity and Water in Storage" in this Appendix A.

Recovered Groundwater. Contamination of groundwater supplies is a growing threat to local groundwater production. Metropolitan has been supporting increased groundwater production and improved regional supply reliability by offering financial incentives to agencies for production and treatment of degraded groundwater since 1991. Metropolitan has executed agreements with local agencies to provide financial incentives to 23 projects that recover contaminated groundwater with total contract yields of about 113,000 acre-feet per year. During fiscal year 2011-12 Metropolitan provided incentives for approximately 34,000 acre-feet of recovered water under these agreements. Total groundwater recovery use under executed agreements is expected to grow to 67,000 acre-feet by 2015.

Surface Runoff. Local surface water resources consist of runoff captured in storage reservoirs and diversions from streams. Since 1980, agencies have used an average of 115,000 acre-feet per year of local surface water. Local surface water supplies are heavily influenced by year to year local weather conditions,

varying from a high of 193,000 acre-feet in fiscal year 1998-99 to a low of 65,000 acre-feet in fiscal year 2002-03.

Conjunctive Use. Conjunctive use is accomplished when groundwater basins are used to store imported supplies during water abundant periods. The stored water is used during shortages and emergencies with a corresponding reduction in surface deliveries to the participating agencies. Regional benefits include enhancing Metropolitan's ability to capture excess surface flows during wet years from both the State Water Project and Colorado River. Groundwater storage is accomplished using spreading basins, injection wells, and in-lieu deliveries where imported water is substituted for groundwater, and the groundwater not pumped is considered stored water.

Metropolitan promotes conjunctive use at the local agency level under its Replenishment Service Program by discounting rates for imported water placed into groundwater or reservoir storage during wet months. The discounted rate and program rules encourage construction of additional groundwater production facilities allowing local agencies to be more self-sufficient during shortages. (See "*Groundwater Storage Programs*" above.) In calendar year 2006, Metropolitan delivered approximately 247,000 acre-feet of water as replenishment water. In calendar year 2007, Metropolitan delivered approximately 46,000 acre-feet of water as replenishment water through May 1, 2007 then discontinued such deliveries through May 10, 2011 when Metropolitan's Board authorized sale of up to 225,000 acre-feet of discounted replenishment service deliveries to member agencies for the remainder of calendar year 2011. In calendar year 2011, Metropolitan delivered approximately 225,000 acre-feet of this discounted replenishment water. ~~Discounted~~ No replenishment deliveries are offered with the expectation of increased sales revenue; however, depending on customer demand, these increased revenues may or may not be realized sales are budgeted for fiscal year 2012-13 and thereafter. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Projections." Metropolitan ~~staff~~ and the ~~its~~ member agencies are ~~currently~~ engaged in a process to develop a revised Replenishment Program for consideration by Metropolitan's Board in 2012. potential incentive-based water storage program that would encourage storing water locally and ensure regional benefits. The new approach could replace the Replenishment Service Program. See "METROPOLITAN REVENUES—Classes of Water Service—*Replenishment*" in this Appendix A.

Recycled Water. Metropolitan has supported recycled water use to offset potable water demands and improve regional supply reliability by offering financial incentives to agencies for production and sales of recycled water since 1982. Metropolitan has executed agreements with local agencies to provide financial incentives to 66 recycled water projects with total contract yields of about 338,000 acre-feet per year. During fiscal year 2011-12, Metropolitan provided incentives for approximately 162,000 acre-feet of reclaimed water under these agreements. Total recycled water use under executed agreements is expected to grow to about 186,000 acre-feet by 2015.

Seawater Desalination. Metropolitan's IRP includes seawater desalination as a core local supply and as a potential buffer supply against long-term uncertainties. To encourage local development, Metropolitan has signed Seawater Desalination Program ("SDP") incentive agreements with three of its member agencies: Long Beach, Municipal Water District of Orange County and West Basin Municipal Water District. The SDP agreements provide sliding-scale incentives of up to \$250 for each acre-foot produced after the projects are operational for 25 years or until 2040, whichever comes first. The incentives are designed to phase out if Metropolitan's rates surpass the cost of producing desalinated seawater. These agreements are subject to final approval by Metropolitan's Board after review of complete project description and environmental documentation. The three projects are in the pilot study and planning stages and are collectively anticipated to produce up to 46,000 acre-feet annually.

On November 10, 2009, Metropolitan authorized a similar SDP incentive agreement with SDCWA and nine of its local retail agencies for a proposed desalination project in Carlsbad, anticipated to produce 56,000 acre-feet per year. The Carlsbad Seawater Desalination Project (the "Carlsbad Project") is being developed by Poseidon Resources LLC. In August 2011, the SDCWA board of directors approved investigating an alternative two-party agreement under which SDCWA would purchase water directly from

the Carlsbad Project. Negotiations between SDCWA and Poseidon Resources LLC for a potential water purchase agreement began in October 2011. The draft water purchase agreement is expected to be released for a 60 day public review and comment period in late August 2012. Neither SDCWA nor Metropolitan has executed the original multi-party incentive agreement authorized by Metropolitan, as a result of SDCWA's negotiation of the alternative two-party agreement and litigation initiated by SDCWA challenging Metropolitan's rate structure that, under the agreement's terms, could have triggered proceedings for termination of the SDP incentive agreement. See "METROPOLITAN REVENUES—Litigation Challenging Rate Structure" in this Appendix A. The Carlsbad Project has obtained permits from the California Coastal Commission, State Lands Commission and San Diego Regional Water Quality Control Board for construction of the project. In June 2011, a state trial court upheld the Regional Water Quality Control Board's project approval. That decision is now before the 4th District Court of Appeal. In October 2011, Poseidon Resources LLC received initial approval from the California Pollution Control Financing Authority to sell up to \$780 million in tax-exempt private activity bonds, conditioned upon final approval of a water purchase agreement with SDCWA.

In addition to the projects in Metropolitan's incentive program, three other seawater desalination projects are under consideration that would provide supplies to Metropolitan's service area. Poseidon Resources is developing the first of these projects, a 56,000 acre-feet per year project in Huntington Beach which is currently in the permitting phase and expected to have California Coastal Commission permit hearings later in 2012. For the second project, SDCWA is studying the potential for a seawater desalination project in Camp Pendleton which would initially produce up to 56,000 acre-feet per year and up to 168,000 acre-feet per year with a phased in build out. In a third project, SDCWA completed an initial feasibility study in 2010 of a desalination project in Rosarito Beach, Mexico that could yield 28,000 to 56,000 acre-feet per year. If developed, SDCWA and potentially Metropolitan could receive a portion of the desalinated supplies either through delivery to SDCWA or through Colorado River supply exchanges with Mexico. Otay Water District, located in San Diego County along the Mexico border, is separately considering the feasibility of purchasing water from an alternative seawater desalination project at the same site in Rosarito Beach. Approvals from a number of U.S. and Mexican federal agencies, along with local approvals, would be needed for either cross-border project to proceed.

METROPOLITAN'S WATER DELIVERY SYSTEM

Method of Delivery

Metropolitan's water delivery system is made up of three basic components: the Colorado River Aqueduct, the California Aqueduct of the State Water Project and Metropolitan's internal water distribution system. Metropolitan's delivery system is integrated and designed to meet the differing needs of its member agencies. Metropolitan seeks redundancy in its delivery system to assure reliability in the event of an outage. Current system expansion and other improvements will be designed to increase the flexibility of the system. Since local sources of water are generally used to their maximum each year, growth in the demand for water is partially met by Metropolitan. Accordingly, the operation of Metropolitan's water system is being made more reliable through the rehabilitation of key facilities as needed, improved preventive maintenance programs and the upgrading of Metropolitan's operational control systems. See "CAPITAL INVESTMENT PLAN" in this Appendix A.

Colorado River Aqueduct. Work on the Colorado River Aqueduct commenced in 1933 and water deliveries started in 1941. Additional facilities were completed by 1961 to meet additional requirements of Metropolitan's member agencies. The Colorado River Aqueduct is 242 miles long, starting at the Lake Havasu intake and ending at the Lake Mathews terminal reservoir. Metropolitan owns all of the components of the Colorado River Aqueduct, which include five pump plants, 64 miles of canal, 92 miles of tunnels, 55 miles of concrete conduits and 144 underground siphons totaling 29 miles in length. The pumping plants lift the water approximately 1,617 feet over several mountain ranges to Metropolitan's service area. See "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct" in this Appendix A.

State Water Project. The initial portions of the State Water Project serving Metropolitan were completed in 1973. State Water Project facilities are owned and operated by DWR. Twenty-nine agencies have entered into contracts with DWR to receive water from the State Water Project. See "METROPOLITAN'S WATER SUPPLY—State Water Project" in this Appendix A.

Internal Distribution System. Metropolitan's internal water distribution system includes components that were built beginning in the 1930s and through the present. Metropolitan owns all of these components, including 14 dams and reservoirs, five regional treatment plants, over 800 miles of transmission pipelines, feeders and canals, and 16 hydroelectric plants with an aggregate capacity of 131 megawatts.

Diamond Valley Lake. Diamond Valley Lake, a man-made reservoir located southwest of the city of Hemet, California, covers approximately 4,410 acres and has capacity to hold approximately 810,000 acre-feet or 265 billion gallons of water. Diamond Valley Lake was constructed to serve approximately 90 percent of Metropolitan's service area by gravity flow. Associated hydraulic structures consist of an inlet-outlet tower, pumps and generating facilities, a pressure control facility, connecting tunnels and a forebay. Imported water is delivered to Diamond Valley Lake during surplus periods. The reservoir provides more reliable delivery of imported water from the State Water Project and the Colorado River Aqueduct during summer months, droughts and emergencies. In addition, Diamond Valley Lake is capable of providing more than one-third of Southern California's water needs from storage for approximately six months after a major earthquake (assuming that there has been no impairment of Metropolitan's internal distribution network). See the table "Metropolitan's Water Storage Capacity and Water in Storage" under "METROPOLITAN'S WATER SUPPLY—Storage Capacity and Water in Storage" in this Appendix A for the amount of water in storage at Diamond Valley Lake. Excavation at the project site began in May 1995. Diamond Valley Lake was completed in March 2000, at a total cost of \$2 billion, and was in full operation in December 2001.

Inland Feeder. The Inland Feeder is a 44-mile-long conveyance system that connects the State Water Project to Diamond Valley Lake and the Colorado River Aqueduct. The Inland Feeder provides greater flexibility in managing Metropolitan's major water supplies and allows greater amounts of State Water Project water to be accepted during wet seasons for storage in Diamond Valley Lake. In addition, the Inland Feeder increases the conveyance capacity from the East Branch of the State Water Project by 1,000 cubic-feet per second ("cfs"), allowing the East Branch to operate up to its full capacity. Construction of the Inland Feeder was completed in September 2009 at a total cost of \$1.14 billion.

Operations Control Center. Metropolitan's water conveyance and distribution system operations are coordinated from the Operations Control Center ("OCC") located in the Eagle Rock area of Los Angeles. The OCC plans, balances and schedules daily water and power operations to meet member agencies' demands, taking into consideration the operational limits of the entire system.

Water Treatment

Metropolitan filters and disinfects water at five water treatment plants: the F.E. Weymouth Treatment Plant, the Joseph Jensen Treatment Plant, the Henry J. Mills Treatment Plant, the Robert B.

Diemer Treatment Plant and the Robert A. Skinner Treatment Plant. The plants treat an average of between 1.7 billion and 2.0 billion gallons of water per day, and have a maximum capacity of approximately 2.6 billion gallons per day. Approximately 70 percent of Metropolitan's water deliveries are treated water.

Federal and state regulatory agencies continually monitor and establish new water quality standards. New water quality standards could affect availability of water and impose significant compliance costs on Metropolitan. The Safe Drinking Water Act ("SDWA") was amended in 1986 and again in 1996. The SDWA establishes drinking water quality standards, monitoring, public notification and enforcement requirements for public water systems. To achieve these objectives, the U.S. Environmental Protection Agency ("USEPA"), as the lead regulatory authority, promulgates national drinking water regulations and develops the mechanism for individual states to assume primary enforcement responsibilities. The California Department of Public Health ("CDPH"), formerly known as the Department of Health Services, has lead authority over California water agencies. Metropolitan continually monitors new water quality laws and regulations and frequently comments on new legislative proposals and regulatory rules.

In October 2007, Metropolitan began adding fluoride to treated water at all five of its treatment plants for regional compliance with Assembly Bill 733, enacted in 1995, which requires fluoridation of any public water supply with over 10,000 service connections in order to prevent tooth decay, subject to availability of sufficient funding. Design and construction of the fluoridation facilities at Metropolitan's five treatment plants were funded primarily by a \$5.5 million grant from the California Dental Association Foundation, in conjunction with the California Fluoridation 2010 Work Group. On August 9, 2011, four individuals filed litigation (*Foli, et al. v. Metropolitan Water District of Southern California, et al.*) in federal district court alleging deprivation of civil rights, impairment of civil rights and unfair competition based on fluoridation of Metropolitan's treated water deliveries. On April 10, 2012 the court granted Metropolitan's motion to dismiss the case without prejudice. Plaintiffs filed a first amended complaint on April 24, 2012. Metropolitan's motion to dismiss is pending before the court.

Disinfection By-products. As part of the requirements of the SDWA, USEPA is required to establish regulations to strengthen protection against microbial contaminants and reduce potential health risks from disinfection by-products. Disinfectants and disinfection by-products ("D/DBPs") were addressed by the USEPA in two stages. In the Stage 1 Disinfectants and Disinfection Byproducts Rule ("Stage 1 DBPR"), the maximum contaminant level ("MCL") for one of the classes of D/DBPs, total trihalomethanes ("TTHM"), was lowered from 100 parts per billion ("ppb") to 80 ppb. MCLs were also set for haloacetic acids ("HAA") and bromate (an ozone D/DBP). In addition, the Stage 1 DBPR includes a treatment requirement to remove disinfection by-product precursors. Compliance with these requirements started in January 2002. Metropolitan already satisfied these requirements for its Colorado River Water, which has lower levels of disinfection by-product precursors than State Water Project water. State Water Project water has a greater amount of disinfection by-product precursors and modifications to the treatment process have been made to meet the requirements of the Stage 1 DBPR. Longer-term D/DBP control has been achieved by switching to ozone as the primary disinfectant at the Mills and Jensen treatment plants, which only receive water from the State Water Project. Ozone facilities at the Mills plant began operating in October 2003. Ozone facilities became operational at the Jensen plant on July 1, 2005. Ozone facilities at the Skinner plant were substantially completed in December 2009 and became operational in 2010. Metropolitan's Board has also approved installing ozonation processes at the Weymouth and Diemer treatment plants, which receive a blend of water from the State Water Project and the Colorado River and installation is underway. See "CAPITAL INVESTMENT PLAN—Major Projects of Metropolitan's Capital Investment Plan" in this Appendix A. Ozone will enable these plants to reliably treat water containing higher blends of State Project water and still meet the new microbial and D/DBP standards.

The second stage of the D/DBP Rule ("Stage 2 DBPR") was finalized in January 2006. The Stage 2 DBPR requires water systems to meet the TTHM and HAA standards at individual monitoring locations in the distribution system as opposed to a distribution system-wide average under the Stage 1 DBPR.

Metropolitan does not anticipate any further capital improvements in order to meet the Stage 2 DBPR requirements.

The Interim Enhanced Surface Water Treatment Rule and the Long Term 2 Enhanced Surface Water Treatment Rule ("LT2ESWTR") have been implemented to simultaneously provide protection against microbial pathogens while the D/DBP rules provide reduced risk from disinfection by-products. Metropolitan does not anticipate any further capital improvements in order to meet the LT2ESWTR requirements.

Perchlorate. Perchlorate, used in solid rocket propellants, munitions and fireworks, has contaminated some drinking water wells and surface water sources throughout California. Perchlorate also has been detected in Metropolitan's Colorado River water supplies. A chemical manufacturing facility near Lake Mead in Nevada is a primary source of the contamination. Remediation efforts began in 1998 and have been successful at meeting the cleanup objectives, significantly reducing the levels of perchlorate entering into the Colorado River. CDPH has established a primary drinking water standard (i.e., an MCL) of 6 ppb for perchlorate. Current perchlorate levels in Metropolitan's Colorado River supplies are below 2 ppb.

Chromium 6. Hexavalent chromium or chromium 6 is the relatively more harmful form of chromium. The public health standard for "total" chromium, which includes chromium 6, is a MCL of 50 ppb. There is currently no specific MCL for chromium 6. Chromium 6 in Metropolitan's source waters has ranged from non-detect (less than 0.03 ppb) to under 0.5 ppb. On July 27, 2011 the California Office of Environmental Health Hazard Assessment ("OEHHA") released a public health goal ("PHG") of 0.02 ppb for chromium 6. Following public comment periods and workshops, the CDPH can proceed with final development of a MCL for chromium 6 and must set the state MCL as close to the PHG as is technologically and economically feasible. It is expected that the adoption of a chromium 6 regulation will not materially affect the water supply to Metropolitan or result in significant compliance costs.

Arsenic. The federal and state MCL for arsenic in drinking water is 10 ppb. Arsenic levels in Metropolitan's treated water supplies ranged from not detected (less than 2 ppb) to 2.3 ppb in 2011.

Seismic Considerations

General. Although the magnitude of damages resulting from a significant seismic event are impossible to predict, Metropolitan's water conveyance and distribution facilities are designed to either withstand a maximum probable seismic event or to minimize the potential repair time in the event of damage. The five pumping plants on the Colorado River Aqueduct have been buttressed to better withstand seismic events. Other components of the Colorado River Aqueduct are monitored for any necessary rehabilitation and repair. Metropolitan personnel and independent consultants periodically reevaluate the internal water distribution system's vulnerability to earthquakes. As facilities are evaluated and identified for seismic retrofitting, they are prioritized, with those facilities necessary for delivering or treating water scheduled for upgrade before non-critical facilities. However, major portions of the California Aqueduct and the Colorado River Aqueduct are located near major earthquake faults, including the San Andreas Fault. A significant earthquake could damage structures and interrupt the supply of water, adversely affecting Metropolitan's revenues and its ability to pay its obligations. Therefore, emergency supplies are stored for use throughout Metropolitan's service area, and a six-month reserve supply of water normally held in local storage (including emergency storage in Diamond Valley Lake) provides reasonable assurance of continuing water supplies during and after such events.

Metropolitan has an ongoing surveillance program that monitors the safety and structural performance of its 14 dams and reservoirs. Operating personnel perform regular inspections that include monitoring and analyzing seepage flows and pressures. Engineers responsible for dam safety review the inspection data and monitor the horizontal and vertical movements for each dam. Major on-site inspections are performed at least twice each year. Instruments to transmit seismic acceleration time histories for

analysis any time a dam is subjected to strong motion during an earthquake are located at a number of selected sites.

In addition, Metropolitan has developed an emergency plan that calls for specific levels of response appropriate to an earthquake's magnitude and location. Included in this plan are various communication tools as well as a structured plan of management that varies with the severity of the event. Pre-designated personnel follow detailed steps for field facility inspection and distribution system patrol. Approximately 40 employees are designated to respond immediately under certain identifiable seismic events. An emergency operations center is maintained at the OCC. The OCC, which is specifically designed to be earthquake resistant, contains communication equipment, including a radio transmitter, microwave capability and a response line linking Metropolitan with its member agencies, DWR, other utilities and the State's Office of Emergency Services. Metropolitan also maintains machine, fabrication and coating shops at its facility in La Verne, California. Materials to fabricate pipe and other appurtenant fittings are kept in inventory at the La Verne site. In the event of earthquake damage, Metropolitan has taken measures to provide the design and fabrication capacity to fabricate pipe and related fittings. Metropolitan is also staffed to perform emergency repairs and has pre-qualified contractors for emergency repair needs at various locations throughout Metropolitan's service area.

State Water Project Facilities. The California Aqueduct crosses all major faults either by canal at ground level or by pipeline at very shallow depths to ease repair in case of damage from movement along a fault. State Water Project facilities are designed to withstand major earthquakes along a local fault or magnitude 8.1 earthquakes along the San Andreas Fault without major damage. Dams, for example, are designed to accommodate movement along their foundations and to resist earthquake forces on their embankments. Earthquake loads have been taken into consideration in the design of project structures such as pumping and power plants. The location of check structures on the canal allows for hydraulic isolation of the fault-crossing repair.

While the dams, canals, pump stations and other constructed State Water Project facilities have been designed to withstand earthquake forces, the critical supply of water from Northern California must traverse the Bay-Delta through hundreds of miles of varying levels of engineered levees that are susceptible to major failures due to flood and seismic risk. In the event of a failure of the Bay-Delta levees, the quality of the Bay-Delta's water could be severely compromised as salt water comes in from the San Francisco Bay. Metropolitan's supply of State Water Project water would be adversely impacted if pumps that move Bay-Delta water southward to the Central Valley and Southern California are shut down to contain the salt water intrusion. Metropolitan estimates that stored water supplies, Colorado River Aqueduct supplies and local water resources that would be available in case of a levee breach or other interruption in State Water Project supplies would meet demands in Metropolitan's service area for approximately twelve months. See "METROPOLITAN'S WATER SUPPLY—Storage Capacity and Water in Storage" in this Appendix A. Since the State and Federal governments control the Bay-Delta levees, repair of any levee failures would be the responsibility of and controlled by the State and Federal governments.

Metropolitan, in cooperation with the State Water Contractors, developed recommendations to DWR for emergency preparedness measures to maintain continuity in export water supplies and water quality during emergency events. These measures include improvements to emergency construction materials stockpiles in the Bay-Delta, improved emergency contracting capabilities, strategic levee improvements and other structural measures of importance to Bay-Delta water export interests, including development of an emergency freshwater pathway to export facilities in a severe earthquake. DWR utilized \$12 million in fiscal year 2007-08 for initial stockpiling of rock for emergency levee repairs and development of Bay-Delta land and marine loading facilities and has identified future funding for expanded stockpiles.

Perris Dam. DWR reported in July 2005 that seismic studies indicate that DWR's Perris Dam facility could sustain damage from moderate earthquakes along the San Jacinto or San Andreas faults due to

potential weaknesses in the dam's foundation. The studies used technology not available when the dam was completed in 1974. Perris Dam forms Lake Perris, the terminal reservoir for the State Water Project in Riverside County, with maximum capacity of approximately 130,000 acre-feet of water. In late 2005, DWR lowered the water level in the reservoir by about 25 feet and reduced the amount of water stored in the reservoir to about 75,000 acre-feet as DWR evaluates alternatives for repair of the dam. The lower lake level elevation was intended to prevent over-topping of the dam crest in the event of a major earthquake and to prevent uncontrolled releases. In December 2006, DWR completed a study identifying various repair options, began additional geologic exploration along the base of Perris Dam and started preliminary design. DWR's preferred alternative is to repair the dam to restore the reservoir to its historical level. DWR estimates that such repairs will cost between \$340 million and \$460 million and take four to eight years to complete, once commenced. DWR released its draft EIR in January 2010 and final EIR in September 2011. On November 11, 2011, DWR certified the final EIR and filed a Notice of Determination stating its intent to proceed with the preferred alternative. Water stored in Lake Perris is used primarily by Metropolitan. Accordingly, DWR is likely to look to Metropolitan to be a major contributor toward the cost of repair of Perris Dam under Metropolitan's State Water Contract. However, Metropolitan believes that the preferred alternative primarily benefits recreation and, as such, that the bulk of any repair costs should be borne by the state. See "METROPOLITAN EXPENDITURES—State Water Contract Obligations" in this Appendix A.

Security Measures

Metropolitan conducts ground and air patrols of the Colorado River Aqueduct and monitoring and testing at all treatment plants and along the Colorado River Aqueduct. Similarly, DWR has in place security measures to protect critical facilities of the State Water Project, including both ground and air patrols of the State Water Project.

Although Metropolitan has constructed redundant systems and other safeguards to ensure its ability to continually deliver water to its customers, and DWR has made similar efforts, a terrorist attack or other security breach against water facilities could materially impair Metropolitan's ability to deliver water to its customers, its operations and revenues and its ability to pay its obligations.

CAPITAL INVESTMENT PLAN

General Description

Metropolitan's current Capital Investment Plan (the "Capital Investment Plan" or "CIP") involves expansion and rehabilitation of existing facilities and construction of new facilities to provide for resource development, meet future water demands, ensure system reliability as well as enhance operational efficiency, and comply with water quality regulations. Metropolitan's CIP is regularly reviewed and updated. Implementation and construction of specific elements of the program are subject to Board approval, and the amount and timing of borrowings will depend upon, among other factors, status of construction activity and water demands within Metropolitan's service area. From time to time projects that have been undertaken are delayed, redesigned or deferred by Metropolitan for various reasons and no assurance can be given that a project in the CIP will be completed in accordance with its original schedule or that any project will be completed as currently planned.

Projection of Capital Investment Plan Expenditures

The table below sets forth projected CIP expenditures, including replacement and refurbishment expenditures, by project type for the fiscal years ending June 30, 2013 through 2017. The requirements of the CIP from fiscal year 2012-13 through fiscal year 2016-17 are estimated to be approximately \$1.45 billion in escalated dollars. This estimate is updated annually as a result of the periodic review and revision of the CIP. See "HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" in this Appendix A.

**CAPITAL INVESTMENT PLAN
PROJECTION OF EXPENDITURES⁽¹⁾
(Fiscal Years Ended June 30 - Dollars in Thousands)**

	2013	2014	2015	2016	2017	Total
<u>Cost of Service</u>						
Source of Supply	\$ 347	\$ -0-	\$ -0-	\$ -0-	\$ -0-	\$ 347
Conveyance & Aqueduct	49,323	37,454	27,124	9,710	2,000	125,611
Storage	8,268	8,001	5,752	8,239	9,599	39,859
Distribution	35,201	42,734	54,827	70,509	82,548	285,819
Treatment	131,722	163,269	208,627	193,812	171,820	869,250
Administrative & General	24,999	21,158	22,171	14,992	5,493	88,813
Hydroelectric	7,429	21,989	3,533	1,216	5,715	39,882
Total⁽²⁾	\$257,289	\$294,605	\$322,034	\$298,478	\$277,175	\$1,449,581

Source: Metropolitan.

- (1) Fiscal year 2012-13 through 2016-17 based on the adopted biennial budget for fiscal years 2012-13 and 2013-14. Totals are rounded.
- (2) Annual totals include replacement and refurbishment expenditures for fiscal years 2012-13 through 2016-17 of \$132 million, \$154 million, \$127 million, \$184 million, and \$200 million, respectively, for a total of \$797 million for fiscal years 2012-13 through 2016-17.

The above projections do not include amounts for contingencies, but include escalation at 2.77 percent per year for projects for which formal construction contracts have not been awarded. Additional capital costs may arise in the future as a result of, among other things, federal and State water quality regulations, project changes and mitigation measures necessary to satisfy environmental and regulatory requirements, and for additional facilities. See "METROPOLITAN'S WATER DELIVERY SYSTEM—Water Treatment" above.

Capital Investment Plan Financing

The CIP will require significant funding from debt financing (see "HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" in this Appendix A) as well as from pay-as-you-go funding. The Board has adopted an internal funding objective to fund all capital program expenditures required for replacements and refurbishments of Metropolitan facilities from current revenues. However, in order to reduce drawdowns of reserve balances and to mitigate financial risks that could occur in upcoming years, actual and projected pay-as-you-go funding has been ~~and is anticipated to be~~ less than ~~budgeted~~ projected amounts during fiscal years 2007-08 through 2012-13. During this period, pay-as-you-go funding is now expected to be \$256 million, rather than the \$521 million originally ~~budgeted~~ projected for this period. As in prior years, these amounts may be reduced or increased by the Board during the fiscal year. To limit the accumulation of cash and investments in the Replacement and Refurbishment Fund, the maximum balance in this fund at the end of each fiscal year will be \$95 million. Amounts above the \$95 million limit will be transferred to the Revenue Remainder Fund and may be used for any lawful purpose. The remainder of capital program expenditures will be funded through the issuance from time to time of water revenue bonds, which are payable from Net Operating Revenues. Metropolitan expects to issue additional water revenue bonds to fund the CIP in the amount of \$180 million in fiscal year 2012-13, \$180 million in fiscal year 2013-14, \$200 million in fiscal year 2014-15, \$180 million in fiscal year 2015-16 and \$190 million in fiscal year 2016-17. See "METROPOLITAN EXPENDITURES—Revenue Bond Indebtedness" in this Appendix A.

Major Projects of Metropolitan's Capital Investment Plan

Oxidation Retrofit Facilities. The oxidation retrofit facilities program includes the design and construction of oxidation facilities and appurtenances at all of Metropolitan's treatment plants. This program is intended to allow Metropolitan to meet drinking water standards for disinfection by-products and reduce taste and odor incidents. The first phase of the oxidation retrofit program, at Metropolitan's Henry J. Mills Treatment Plant in Riverside County, was completed in 2003. Oxidation retrofit at the Joseph Jensen Treatment Plant was completed July 1, 2005. The cost for these two projects was approximately \$236.4 million. Oxidation retrofit at the Robert A. Skinner plant was substantially completed in December 2009 and operational in 2010, with follow-up work expected for completion in December 2012. Expenditures at the Skinner plant through June 2012 were \$242.2 million. Total oxidation program costs at the Skinner plant are estimated to be \$245.5 million. Construction of the oxidation retrofit facilities at the Robert B. Diemer Treatment Plant was 97 percent complete in June 2012. Program expenditures at the Diemer plant through June 2012 were \$339.2 million and the total program cost is projected to be \$372.9 million. Oxidation program costs at the F.E. Weymouth plant, based upon the adopted budget, are estimated to be \$338.5 million. Expenditures at the Weymouth plant through June 2012 were \$70.5 million and completion is expected in fiscal year 2016-17.

F.E. Weymouth Treatment Plant Improvements. The F.E. Weymouth Treatment Plant was built in 1938 and subsequently expanded several times over the following 25 years. It is Metropolitan's oldest water treatment facility. Metropolitan has completed several upgrades and refurbishment/replacement projects to maintain the plant's reliability and improve its efficiency. These include power systems upgrades, a residual solids dewatering facility, refurbishment/replacement of the mechanical equipment in two of the eight flocculation and settling basins, a new plant maintenance facility, new chemical feed systems and storage tanks, replacement of the plant domestic/fire water system, seismic upgrades to the plant inlet structure, and a new chlorine handling and containment facility. Planned projects over the next several years include refurbishment of the plant's filters and settling basins, seismic retrofits to the filter buildings and administration building, and replacement of the valves used to control filter operation. The current cost estimate for all prior and projected improvements at the Weymouth plant, not including the ozone facilities, is approximately \$452 million, with \$176.2 million spent through June 2012. Budgeted aggregate capital expenditures for improvements at the Weymouth plant for fiscal years 2012-13 and 2013-14 are \$40.3 million.

Robert B. Diemer Treatment Plant Improvements. The Robert B. Diemer Treatment Plant was built in 1963 and subsequently expanded in 1968. It is Metropolitan's second oldest water treatment facility and has a capacity to treat 520 million gallons of water a day. Several upgrades and refurbishment/replacement projects have been completed at the Diemer plant, including power system upgrades, a new residual solids dewatering facility, new vehicle and plant maintenance facilities, new chemical feed systems and storage tanks, a new chlorine handling and containment facility, construction of a roller-compacted concrete slope stabilization system and a new secondary access road. The current cost estimate for all prior and projected improvements at the Diemer Treatment Plant, not including the ozone facilities, is approximately \$445.2 million, with \$167.6 million spent through June 2012. Budgeted aggregate capital expenditures for improvements at the Diemer plant for fiscal years 2012-13 and 2013-14 are \$34.4 million.

Colorado River Aqueduct Facilities. Deliveries through the Colorado River Aqueduct began in 1941. Through annual inspections and maintenance activities, the performance and reliability of the various components of the Colorado River Aqueduct are regularly evaluated. A major overhaul of the pump units at the five pumping plants was completed in 1988. Refurbishment or replacement of many of the electrical system components, including the transformers, circuit breakers and motor control centers, is currently under way. Projects completed over the past 10 years include replacement of high voltage circuit breakers and transformers at the five pumping plant switchyards, refurbishment of operators and power centers on the head gates downstream of the pumping plants, refurbishment/replacement of 15 isolation/control gates, replacement of cast iron pipe and other components at over 200 outlet structures with stainless steel

components, replacement of pumping plant inlet trash racks, and replacement of several miles of deteriorated concrete canal liner. Additionally, many of the mechanical components at the pumping plants as well as the Copper Basin and Gene Wash Reservoirs will be evaluated and replaced or refurbished over the next few years. The currently projected cost estimate for all prior and planned refurbishment or replacement projects-~~currently projected~~ is \$285.8 million. Costs through June 2012 were \$135.1 million. Budgeted aggregate capital expenditures for improvements on the Colorado River Aqueduct for fiscal years 2012-13 and 2013-14 are \$74.1 million.

GOVERNANCE AND MANAGEMENT

Board of Directors

Metropolitan is governed by a 37-member Board of Directors. Each member public agency is entitled to have at least one representative on the Board, plus an additional representative for each full five percent of the total assessed valuation of property in Metropolitan's service area that is within the member public agency. Changes in relative assessed valuation do not terminate any director's term. Accordingly, the Board may, from time to time, have more than 37 directors.

The Board includes business, professional and civic leaders. Directors serve on the Board without compensation from Metropolitan. Voting is based on assessed valuation, with each member agency being entitled to cast one vote for each \$10 million or major fractional part of \$10 million of assessed valuation of property within the member agency, as shown by the assessment records of the county in which the member agency is located. The Board administers its policies through the Metropolitan Water District Administrative Code (the "Administrative Code"), which was adopted by the Board in 1977. The Administrative Code is periodically amended to reflect new policies or changes in existing policies that occur from time to time.

Management

Metropolitan's day-to-day management is under the direction of its General Manager, who serves at the pleasure of the Board, as do Metropolitan's General Counsel, General Auditor and Ethics Officer. Following is a biographical summary of Metropolitan's principal executive officers.

Jeffrey Kightlinger, General Manager – Mr. Kightlinger was appointed as General Manager in February 2006, leaving the position of General Counsel, which he had held since February 2002. Before becoming General Counsel, Mr. Kightlinger was a Deputy General Counsel and then Assistant General Counsel, representing Metropolitan primarily on Colorado River matters, environmental issues, water rights and a number of Metropolitan's water transfer and storage programs. Prior to joining Metropolitan in 1995, Mr. Kightlinger worked in private practice representing numerous public agencies including municipalities, redevelopment agencies and special districts. Mr. Kightlinger earned his bachelor's degree in history from the University of California, Berkeley, and his law degree from Santa Clara University.

Marcia Scully, General Counsel – Ms. Scully assumed the position of General Counsel in March 2012. She previously served as Metropolitan's Interim General Counsel from March 2011 to March 2012. Ms. Scully joined Metropolitan in 1995, after a decade of private law practice, providing legal representation to Metropolitan on construction, employment, Colorado River and significant litigation matters. From 1981 to 1985 she was assistant city attorney for the City of Inglewood. Ms. Scully served as president of University of Michigan's Alumnae Club of Los Angeles and is a recipient of the 1996 State Bar of California, District 7 President's Pro Bono Service Award and the Southern California Association of Non-Profit Housing Advocate of the Year Award. She is also a member of the League of Women Voters for Whittier and was appointed for two terms on the City of Whittier's Planning Commission, three years of which were served as chair. Ms. Scully earned a bachelor's degree in liberal arts from the University of Michigan, a master's degree in urban planning from Wayne State University and law degree from Loyola Law School.

Gerald C. Riss, General Auditor – Mr. Riss was appointed as Metropolitan's General Auditor in July 2002 and is responsible for the independent evaluation of the policies, procedures and systems of control throughout Metropolitan. Mr. Riss is a certified fraud examiner, certified financial services auditor and certified risk professional with more than 25 years of experience in accounting, audit and risk management. Prior to joining Metropolitan, Mr. Riss was Vice President and Assistant Division Head of Risk Management Administration at United California Bank/Bank of the West. He also served as Senior Vice President, director of Risk Management and General Auditor of Tokai Bank of California from 1988 until its reorganization as United California Bank in 2001. He earned a bachelor's degree in accounting and master's degree in business administration from Wayne State University in Detroit, Michigan.

Jeffrey L. Cable, Interim Ethics Officer – Mr. Cable was appointed as Interim Ethics Officer in March 2012. He has served as an ethics educator at Metropolitan since 2005. Prior to joining Metropolitan, Mr. Cable was a senior trainer for United Resources International Business Consultants in Taipei, Taiwan from 2002 to 2005 and taught an applied ethics course at the University of Montana in 2001. A certified ethics officer from the Society of Corporate Compliance and Ethics, Mr. Cable has also completed meditation training at the Loyola Law School Center for Conflict Resolution. He is a member of the Association for Practical and Professional Ethics, Ethics and Compliance Office Association, Southern California Business Ethics Roundtable and the Society of Corporate Compliance and Ethics. Mr. Cable earned a master's degree in philosophy and bachelor's degree in human resources management and interpersonal communications from the University of Montana.

Gary Breaux, Assistant General Manager/Chief Financial Officer – Mr. Breaux has had extensive experience working for local governments since 1983. From 1994 until joining Metropolitan, he served as Director of Finance for East Bay Municipal Utility District (EBMUD). At EBMUD, he was responsible for all financial areas, including treasury operations, debt management, rates, internal audit, accounting and reporting, risk management and customer and community services. Prior to joining EBMUD, he was Director of Finance for the City of Oakland, California. A native of Colorado, Mr. Breaux received a Bachelor of Science degree in Business from the University of Colorado in 1977 and a Masters degree in Public Administration in 1987 from Virginia Commonwealth University. He is a Certified Public Accountant. Mr. Breaux is a member of the American Water Works Association and the American Institute of Certified Public Accountants.

Debra Man, Assistant General Manager/Chief Operating Officer – Ms. Man was appointed to this position on December 15, 2003. Ms. Man has worked at Metropolitan since 1986, beginning as an engineer and advancing to Chief of the Planning and Resources Division. As Chief of Planning and Resources she was responsible for major initiatives adopted by Metropolitan's Board, such as the Integrated Water Resources Plan, rate structure, and facility plans for expansion of Metropolitan's distribution system. In 1999, she was appointed as Vice President of Water Transfers and Exchanges, responsible for securing water supplies through agreements and partnerships with other water and agricultural interests in San Joaquin Valley and Southern California and demonstrating Metropolitan's water supply reliability in compliance with current laws. Ms. Man is a registered professional civil engineer in California and Hawaii. She has a master's degree in civil/environmental engineering from Stanford University and a bachelor's degree in civil engineering from the University of Hawaii.

Roger Patterson, Assistant General Manager/Strategic Initiatives – Mr. Patterson was appointed Assistant General Manager in March 2006. He is responsible for overseeing water supply and planning issues, including the Colorado River and State Water Project. He previously served as a consultant to Metropolitan on Colorado River issues. Mr. Patterson was the director of the Nebraska Department of Natural Resources from 1999 to 2005, where he was responsible for water administration, water planning, flood-plain delineation, dam safety and the state databank. Prior to his work in Nebraska, Mr. Patterson

spent 25 years with the Bureau of Reclamation, retiring from the Bureau as the Regional Director for the Mid-Pacific Region. He is a registered professional engineer in Nebraska and Colorado, and earned bachelor's and master's degrees in engineering from the University of Nebraska.

Gilbert F. Ivey, Assistant General Manager/Chief Administrative Officer – Mr. Ivey is the Chief Administrative Officer and is responsible for human resources, real property management, strategic land development and Metropolitan's small business program. Mr. Ivey has been with Metropolitan for 40 years, starting as a summer trainee in the Engineering Division. He has held various positions in Finance, Right-of-Way and Land, Operation, Human Resources and Executive Offices. He earned a bachelor's degree in business administration from California State University, Dominguez Hills and holds various professional designations and certifications in management from Pepperdine University and the University of Southern California.

Linda Waade, Deputy General Manager/External Affairs – Ms. Waade is responsible for Metropolitan's communications, outreach, education and legislative matters. Prior to joining Metropolitan in August 2006, she coordinated government and community affairs for the Los Angeles office of CH2M Hill, Inc., where she provided counsel on policy development and outreach strategies for environmental and public works projects. She also maintained her own consulting firm, Waade Partners Consulting. Ms. Waade was deputy chief of staff and policy director for then Los Angeles City Councilmember Antonio R. Villaraigosa from July 2003 to January 2004. She served as transportation policy advisor for Los Angeles Mayor Tom Bradley from 1991-93, as chief of staff for U.S. Congressman Mel Levine in his Los Angeles district office from 1988-89 and as the congressman's special assistant for environmental affairs from 1987-88, and was executive director of the Coalition for Clean Air, a statewide advocacy organization dedicated to air quality issues, from 1994-98. Ms. Waade earned a bachelor's degree in political science from California State University at Los Angeles. She is a past recipient of the "Environmental Leadership Award" from the California League of Conservation Voters.

Employee Relations

The total number of regular full-time Metropolitan employees on ~~July 30,~~August 15, 2012 was ~~1,765,~~1,763, of whom ~~1,233,~~1,236 were represented by AFSCME Local 1902, 100 by the Supervisors Association, ~~275,~~272 by the Management and Professional Employees Association and ~~102,~~101 by the Association of Confidential Employees. The remaining ~~554~~ employees are unrepresented. The four bargaining units represent 97 percent of Metropolitan's employees. The Memorandum of Understanding ("MOU") with the Association of Confidential Employees covers the period January 1, 2011 through December 31, 2015. The MOUs with the Management and Professional Employees Association and with AFSCME Local 1902 cover the period January 1, 2011 to December 31, 2016. The MOU with the Supervisors Association covers the period September 13, 2011 to December 31, 2016.

Risk Management

Metropolitan is exposed to various risks of loss related to the design, construction, treatment and delivery of water. With the assistance of third party claims administrators, Metropolitan is self-insured for liability, property and workers' compensation. Metropolitan self-insures the first \$25 million per liability occurrence, with commercial liability coverage of \$75 million in excess of the self-insured retention. The \$25 million self-insured retention is maintained as a separate restricted reserve. Metropolitan is also self-insured for loss or damage to its property, with the \$25 million self-insured retention also being accessible for emergency repairs and Metropolitan property losses. In addition, Metropolitan obtains other excess and specialty insurance coverages such as directors' and officers' liability, fiduciary liability and aircraft hull and liability coverage.

Metropolitan self-insures the first \$5 million for workers' compensation with excess coverage of \$50 million. Metropolitan separately funds remaining workers' compensation and general liability claims arising

from the Diamond Valley Lake and early portions of the Inland Feeder construction projects, which were insured through Owner Controlled Insurance Programs (“OCIPs”). The OCIPs for those projects have been concluded. The costs to settle and close the remaining claims for the Diamond Valley Lake and Inland Feeder construction projects are estimated to be \$1 million and \$300,000, respectively.

The self-insurance retentions and reserve levels currently maintained by Metropolitan may be modified by Metropolitan’s Board at its sole discretion.

METROPOLITAN REVENUES

General

Until water deliveries began in 1941, Metropolitan’s activities were, by necessity, supported entirely through the collection of *ad valorem* property taxes. Since the mid-1980s, water sales revenues have provided approximately 75 to 80 percent of total revenues and *ad valorem* property taxes have accounted for about 10 percent of revenues, while the remaining revenues have been derived principally from the sale of hydroelectric power, interest on investments and additional revenue sources (water standby charges and availability of service charges) beginning in 1993. *Ad valorem* taxes do not constitute a part of Operating Revenues and are not available to make payments with respect to the water revenue bonds issued by Metropolitan. *Ad valorem* taxes are applied solely to the payment of principal and interest on Metropolitan’s outstanding general obligation bonds and a portion of State Water Contract payments.

The basic rate for untreated water for domestic and municipal uses increased from \$8 per acre-foot in fiscal year 1941-42 to the rate of \$527 per acre-foot for Tier 1 water, effective January 1, 2011. The *ad valorem* tax rate for Metropolitan purposes has gradually been reduced from a peak equivalent rate of 0.1250 percent of full assessed valuation in fiscal year 1945-46 to 0.0037 percent of full assessed valuation for fiscal year 2011-12. See “—Rate Structure” below. The rates charged by Metropolitan represent the wholesale cost of Metropolitan water to its member agencies, and not the cost of water to the ultimate consumer. Metropolitan does not exercise control over the rates charged by its member agencies or their subagencies to their customers.

Summary of Receipts by Source

The following table sets forth Metropolitan’s sources of receipts for the five fiscal years ended June 30, 2012. The table provides cash basis information, which is unaudited. Audited financial statements for the fiscal years ended June 30, 2011 and June 30, 2010 are provided in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED).”

SUMMARY OF RECEIPTS BY SOURCE⁽¹⁾
Fiscal Years Ended June 30
(Dollars in Millions)

	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
Water Sales ⁽²⁾	\$ 967.8	\$988.1	\$1,011.1	\$ 995.6	\$ 1,090.0
Net Tax Collections ⁽³⁾	100.4	105.2	97.3	88.0	90.1
Additional Revenue Sources ⁽⁴⁾	114.0	119.7	135.3	153.5	167.1
Interest on Investments	60.3	33.7	26.7	18.9	17.8
Hydroelectric Power Sales	41.1	22.5	18.8	22.1	31.0
Other Collections & Trust Funds	<u>8.1</u>	<u>3.1</u>	<u>9.1</u>	<u>61.0⁽⁵⁾</u>	<u>26.1</u>
Total Receipts	\$1,291.7	\$1,272.3	\$1,298.3	\$1,339.1	\$1,342.1 <u>1,422.1</u>

Source: Metropolitan.

- (1) Does not include any proceeds from the sale of bonded indebtedness.
- (2) Gross receipts in each year are for sales in the twelve months ended April 30 of such year. Water sales revenues include revenues from water wheeling and exchanges. See "METROPOLITAN REVENUES—Wheeling and Exchange Charges." Includes \$25.7 million in fiscal year 2010-11, from the Calleguas Municipal Water District related to termination of the Las Posas water storage program. In fiscal year 2011-12, includes \$27.5 million from CVWD for delivery of 105,000 acre-feet under an exchange agreement between Metropolitan and CVWD.
- (3) *Ad valorem* taxes levied by Metropolitan are applied solely to the payment of outstanding general obligation bonds of Metropolitan and a portion of State Water Contract payments.
- (4) Includes receipts derived from water standby charges, readiness-to-serve, and connection maintenance or capacity charges. See "—Rate Structure" and "—Additional Revenue Components" below.
- (5) Includes \$10.8 million reimbursement from State Proposition 13 bond funds and \$28.2 million from the termination of the Las Posas water storage program.

Revenue Allocation Policy and Tax Revenues

The Board determines the water revenue requirement for each fiscal year after first projecting the *ad valorem* tax levy for that year. The tax levy for any year is subject to limits imposed by the Act and Board policy. Currently the tax levy is set to not exceed the amount needed to pay debt service on Metropolitan's general obligation bonds and a portion of Metropolitan's share of the debt service on the general obligation bonds issued by the State to finance the State Water Project. Any deficiency between tax levy receipts and Metropolitan's share of debt service obligations on general obligation bonded debt issued by the State is expected to be paid from Operating Revenues, as defined in the Master Resolution. See "HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" in this Appendix A. The State Water Contract requires that in the event that Metropolitan fails or is unable to raise sufficient funds by other means, Metropolitan must levy upon all property within its boundaries not exempt from taxation a tax or assessment sufficient to provide for all payments under the State Water Contract.

Water Sales Revenues

Authority. Water rates are established by the Board and are not subject to regulation or approval by the Public Utilities Commission of California or by any other local, State or federal agency. In accordance with the Act, water rates must be uniform for like classes of service. Metropolitan has three classes of water service: (1) full service; (2) replenishment (~~formerly seasonal storage discontinued effective December 31, 2012~~); and (3) interim agricultural (~~discontinued effective December 31, 2012~~). See "—Classes of Water Service" below.

No member agency of Metropolitan is obligated to purchase water from Metropolitan. However, twenty-four of Metropolitan's 26 member agencies ~~have~~ entered into voluntary 10-year water supply

purchase orders for water purchases ~~through~~ These purchase orders expire on December 31, 2012. See “—Member Agency Purchase Orders” below. Consumer demand and locally supplied water vary from year to year, resulting in variability in water sales revenues. Metropolitan uses its financial reserves and budgetary tools to manage the financial impact of the variability in revenues due to fluctuations in annual water sales. See “MANAGEMENT’S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES” in this Appendix A.

Payment Procedure. Water is delivered to the member agencies on demand and is metered at the point of delivery. Member agencies are billed monthly and a late charge of one percent of the delinquent payment is assessed for delinquent payments not exceeding five business days. A late charge of two percent of the amount of the delinquent payment is charged for a payment that is delinquent for more than five business days for each month or portion of a month that the payment remains delinquent. Metropolitan has the authority to suspend service to any member agency delinquent for more than 30 days. Delinquencies have been rare; in such instances late charges have been collected. No service has been suspended because of delinquencies.

Water Sales. The following table sets forth the acre-feet of water sold and water sales receipts (including receipts from water wheeling and exchanges) for the five fiscal years ended June 30, 2012. The table provides cash basis information. Water sales revenues of Metropolitan for the two fiscal years ended June 30, 2011 and June 30, 2010, respectively, on an accrual basis, are shown in Appendix B - “THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR’S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED)” attached to this ~~Official~~Offering Statement.

SUMMARY OF WATER SOLD AND WATER SALES RECEIPTS
Fiscal Years Ended June 30

Year	Acre-Feet⁽¹⁾ Sold	Gross Receipts⁽³⁴⁾ (in millions)	Average Receipts Per Acre Foot⁽⁴⁵⁾	Average Rate Per 1000 Gallons
2008	2,305,364	\$ 967.8	\$ 420	\$ 1.29
2009	2,166,936	988.1	456	1.40
2010	1,857,564	1,011.1	544	1.67
2011 ⁽²⁾	1,632,277	995.6	610	1.87
2012 ⁽³⁾	1,676,855	1,062.5	634	1.94

Source: *Metropolitan.*

(1) Year ended April 30.

(2) Includes the sale of 34,519 acre-feet and the receipt of \$25.7 million from the Calleguas Municipal Water District related to termination of the Las Posas water storage program.

(3) Includes 225,000 acre-feet of replenishment sales.

(4) ~~(3)~~ Gross receipts in each year are for sales in the twelve months ended April 30 of such year, with rates and charges invoiced in May and payable by the last business day of June of each year. Includes revenues from water wheeling and exchanges. See “METROPOLITAN REVENUES—Wheeling and Exchange Charges”.

- (5) ~~(4)~~ Gross receipts divided by acre-feet sold. An acre-foot is approximately 326,000 gallons. See table entitled "SUMMARY OF WATER RATES" in this Appendix A for a description of water rates and classes of service.

Rate Structure

The following rates and charges are elements of Metropolitan's rate structure for full service water deliveries:

Tier 1 and Tier 2 Water Supply Rates. The Tier 1 and Tier 2 Water Supply Rates are designed to recover Metropolitan's water supply costs. The Tier 2 Supply Rate is designed to reflect Metropolitan's costs of acquiring new supplies. Member agencies are charged the Tier 1 or Tier 2 Water Supply Rate for water purchases, as described under "—Member Agency Purchase Orders" below.

System Access Rate. The System Access Rate is intended to recover a portion of the costs associated with the conveyance and distribution system, including capital, operating and maintenance costs. All users (including member agencies and third-party entities wheeling or exchanging water; see "—Wheeling and Exchange Charges" below) of the Metropolitan system pay the System Access Rate.

Water Stewardship Rate. The Water Stewardship Rate is charged on a dollar per acre-foot basis to collect revenues to support Metropolitan's financial commitment to conservation, water recycling, groundwater recovery and other water management programs approved by the Board. The Water Stewardship Rate is charged for every acre-foot of water conveyed by Metropolitan because all users of Metropolitan's system benefit from the system capacity made available by investments in demand management programs.

System Power Rate. The System Power Rate is charged on a dollar per acre-foot basis to recover the cost of power necessary to pump water from the State Water Project and Colorado River through the conveyance and distribution system for Metropolitan's member agencies. The System Power Rate is charged for all Metropolitan supplies. Entities wheeling non-Metropolitan water supplies will pay the actual cost of power to convey water on the State Water Project, the Colorado River Aqueduct or the Metropolitan distribution system, whichever is applicable.

Treatment Surcharge. Metropolitan charges a treatment surcharge on a dollar per acre-foot basis for treated deliveries. The treatment surcharge is set to recover the cost of providing treated water service, including capital and operating cost.

Water Supply Surcharge. Effective January 1, 2009, Metropolitan adopted a Water Supply Surcharge of \$25 per acre-foot, applicable to Full Service Tier 1 untreated and treated water rates and to the Interim Agricultural Water Program untreated and treated water rates. The Water Supply Surcharge was intended to recover the costs of additional water transfers purchased to augment supplies from the State Water Project. These costs were anticipated to be about \$50 million in fiscal year 2008-09. However, on April 14, 2009 Metropolitan's Board adopted a Delta Supply Surcharge, which, effective September 1, 2009, eliminated and replaced the Water Supply Surcharge. See "—Delta Supply Surcharge" below.

Delta Supply Surcharge. On April 13, 2010, Metropolitan's Board adopted a Delta Supply Surcharge of \$51 and \$58 per acre-foot, effective January 1, 2011 and January 1, 2012, respectively, and applicable to all Tier 1, Interim Agricultural Water Program and Replenishment water rates. The Delta Supply Surcharge is designed to recover the additional supply costs Metropolitan faces as a result of pumping restrictions associated with the USFWS biological opinion on Delta smelt and other actions to protect endangered fish species. The Delta Surcharge was intended to remain in effect until a long-term solution for the Bay-Delta is achieved. Metropolitan anticipated that the Delta Supply Surcharge would be reduced or suspended as interim Delta improvements ease pumping restrictions, resulting in lower costs for additional supplies. On April 10, 2012, the Board suspended the Delta Supply Surcharge, effective July 1, 2012.

The amount of each of these rates since January 1, 2007, is shown in the table entitled "SUMMARY OF WATER RATES" under "—Water Rates by Water Category" below.

Litigation Challenging Rate Structure

SDCWA filed *San Diego County Water Authority v. Metropolitan Water District of Southern California, et al.* on June 11, 2010. The complaint alleges that the rates adopted by the Board on April 13, 2010, which became effective January 1, 2011, misallocate State Water Contract costs to the System Access Rate and the System Power Rate, and thus to charges for transportation of water, and that this results in an overcharge to SDCWA by at least \$24.5 million per year. The complaint alleges that all State Water Project costs should be allocated instead to Metropolitan's Supply Rate, even though under the State Water Contract Metropolitan is billed separately for transportation, power and supply costs. It states additionally that Metropolitan will overcharge SDCWA by another \$5.4 million per year by including the Water Stewardship Rate in transportation charges. Eight of Metropolitan's member agencies (the Cities of Glendale, Los Angeles and Torrance, Municipal Water District of Orange County and Foothill, Las Virgenes, Three Valleys and West Basin Municipal Water Districts) answered the complaint in support of Metropolitan. IID joined the litigation in support of SDCWA's challenge to Metropolitan's charges for transportation of water.

The complaint requested a court order invalidating the rates and charges adopted April 13, 2010, and that Metropolitan be mandated to allocate costs associated with State Water Project supplies and the Water Stewardship Rate to water supply charges and not to transportation charges. Rates in effect in prior years are not challenged in this lawsuit. Metropolitan contends that its rates are reasonable, equitably apportioned among its member agencies and lawful, and were adopted under a valid rate structure and cost of service approach developed in a multi-year collaborative process with its member agencies that has been in place since 2002. Nevertheless, to the extent that a court invalidates Metropolitan's adopted rates and charges, Metropolitan will be obligated to adopt rates and charges that comply with any mandates imposed by the court. Metropolitan expects that such rates and charges would still recover Metropolitan's cost of service. As such, revenues would not be affected. If Metropolitan's rates are revised in the manner proposed by SDCWA in the complaint, other member agencies ~~would~~ may pay higher rates unless other actions are taken by the Board.

Metropolitan held \$13 million in its financial reserves pursuant to the exchange contract between Metropolitan and SDCWA due to SDCWA's litigation challenging Metropolitan's rate structure as of June 30, 2011. This amount increased to \$50 million by the end of fiscal year 2011-12. See "—Financial Reserve Policy" below. Amounts held pursuant to the exchange agreement will continue to accumulate based on the quantities of exchange water that Metropolitan provides to SDCWA and the amount of charges disputed by SDCWA. These amounts are transferable to SDCWA if it prevails in the litigation.

SDCWA filed its First Amended Petition for Writ of Mandate and Complaint on October 27, 2011, adding five new claims to this litigation, two of which were eliminated from the case on January 4, 2012. The three remaining new claims are for breach of the water exchange agreement between Metropolitan and SDCWA (described herein under "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct—*Sale of Water by the Imperial Irrigation District to San Diego County Water Authority*") based on ~~improper~~ allegedly illegal calculation of rates; improper exclusion of SDCWA's payments under this exchange agreement from calculation of SDCWA's preferential rights to purchase Metropolitan supplies (see "—Preferential Rights" below); and illegality of "rate structure integrity" provisions in conservation and local resources incentive agreements between Metropolitan and SDCWA. Such "rate structure integrity" provisions permit the Board to terminate incentives payable under conservation and local resources incentive agreements between Metropolitan and a member agency due to certain actions by the member agency to challenge the rates that are the source of incentive payments. In June 2011, Metropolitan's Board authorized termination of two incentive agreements with SDCWA under the "rate structure integrity" provisions in such agreements after SDCWA filed its initial complaint challenging Metropolitan's rates.

SDCWA filed a Second Amended Petition for Writ of Mandate and Complaint on April 17, 2012, which contains additional allegations but no new causes of action. While believing that the three surviving claims added to the rate challenge lack merit, Metropolitan is unable to assess at this time the likelihood of success of these or any future claims or the potential impact on Metropolitan's revenues or operations.

On June 8, 2012, SDCWA filed a new lawsuit challenging the rates adopted by Metropolitan on April 10, 2012 to become effective January 1, 2013 and January 1, 2014. See "-Rate Structure" above and "-Water Rates by Water Category" below for a description of Metropolitan's water rate structure and the rates and charges adopted on April 10, 2012. The complaint contains allegations similar to those in the Second Amended Petition for Writ of Mandate and Complaint and new allegations asserting Metropolitan's rates violate Proposition 26. See "-California Ballot Initiatives" below for a description of Proposition 26. Metropolitan contends that its rates adopted on April 10, 2012 are reasonable, equitably apportioned among its member agencies and lawful and were adopted under a valid rate structure and cost of service approach. Metropolitan will defend this new litigation. Ten of Metropolitan's member agencies (the eight member agency parties to SDCWA's first lawsuit, Eastern Municipal Water District and Western Municipal Water District of Riverside County) answered the complaint in support of Metropolitan and IID joined the litigation in support of SDCWA. Metropolitan is unable to assess at this time the likelihood of success of this litigation or any future claims.

Member Agency Purchase Orders

The current rate structure provides for a member agency's agreement to purchase water from Metropolitan by means of a voluntary purchase order. In consideration of executing its purchase order, the member agency is entitled to purchase a greater amount of water at the lower Tier 1 Water Supply Rate, as described in the following paragraph. Under each purchase order, a member agency agrees to purchase, over the ten-year term of the contract, an amount of water equal to at least 60 percent of its highest firm demand for Metropolitan water in any fiscal year from 1989-90 through 2001-02 multiplied by ten. Member agencies are allowed to vary their purchases from year to year, but a member agency will be obligated to pay for the full amount committed under the purchase order, even if it does not take its full purchase order commitment by the end of the ten-year period. The existing purchase orders expire on December 31, 2012.

Each member agency that executed a purchase order will be allowed to purchase up to 90 percent of its base amount at the Tier 1 Water Supply Rate in any fiscal year during the term of the purchase order, and its base amount will be the greater of (1) its highest firm demand for Metropolitan water in any fiscal year from 1989-90 through 2001-02 or (2) its ten-year rolling average of firm demand for Metropolitan water. Amounts purchased by such agencies over the applicable base amount will be priced at the Tier 2 Water Supply Rate. Member agencies that did not enter into purchase orders will be permitted in any fiscal year to purchase 60 percent of their base amount (equal to the member agency's highest fiscal year demand between 1989-90 and 2001-02) at the Tier 1 Water Supply Rate. Twenty-four of Metropolitan's 26 member agencies executed purchase orders for an aggregate of 12.5 million acre-feet of water over the ten years ending December 31, 2012. As of May 31, 2011, 23 of the 24 member agencies with purchase orders had met their purchase order commitments. One agency, the City of Compton, was not on track to meet its commitment to purchase 33,720.6 acre-feet over the ten-year period. On November 8, 2011, Metropolitan's Board authorized the General Manager to execute a withdrawal of Compton's Purchase Order, effective January 1, 2003. This will lower Compton's Tier 1 limit as if its Purchase Order had not been executed and Compton will pay the Tier 2 Supply Rate on any future water purchases over the lower limit.

Metropolitan and its member agencies have begun discussing terms for potential renewals or replacements of purchase orders or alternative ways to determine the applicable Tier 1 and Tier 2 Water Supply Rate for purchases by member agencies after the existing purchase orders expire on December 31, 2012. Any renewals, replacements or Water Supply Rate ~~determination~~determinations would be subject to approval by Metropolitan's Board and the governing bodies of the respective member agencies.

Classes of Water Service

Full Service Water. Full service water service, formerly known as non-interruptible water service, includes water sold for domestic and municipal uses. Full service treated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate, system power rate and treatment surcharge. Full service untreated water rates are the sum of the applicable supply rate, system access rate, water stewardship rate and system power rate. Full service water sales are the major component of Metropolitan water sales.

Interim Agricultural Water Program. This program provides a discounted rate for agricultural water users that, pursuant to the Act, are permitted to receive only surplus water not needed for domestic or municipal purposes. ~~Metropolitan delivered approximately 34,000 acre-feet of agricultural water under this program in fiscal year 2009-10.~~ The terms of the program provide that, should a water shortage occur, Metropolitan may reduce deliveries of agricultural water ~~under the program by 24 percent in 2010 and 18 percent in 2011~~ before imposing conservation measures on Full Service deliveries. ~~However, an allocation of Full Service deliveries in response to a water supply shortage could result in additional reductions of agricultural water deliveries. Metropolitan imposed a 30 percent reduction in agricultural water deliveries beginning January 1, 2008, to make this water (approximately 45,000 acre-feet) available to meet other demands.~~ Metropolitan delivered approximately 40,000 acre-feet of agricultural water under this program in fiscal year 2009-10, approximately 21,000 acre-feet in fiscal year 2010-11 and approximately 29,000 acre-feet in fiscal year 2011-12. On October 14, 2008, the Board approved annual reductions of the Interim Agricultural Water Program discount beginning January 1, 2010 and discontinuance of the program when the discount reaches zero on January 1, 2013. Customers participating in the program may irrevocably opt out of the program at the beginning of each calendar year during the phase-out period and may purchase water at Metropolitan's full service rates.

Replenishment. Under the Replenishment Service Program, water is sold at a discounted rate to member agencies that store surplus imported water when supplies are available and subsequently ~~use~~ produce the water to ~~offset demands on~~ reduce member agencies' deliveries from Metropolitan ~~in~~ during periods of high demand, emergencies or times of shortage. Replenishment Service Program deliveries are subject to availability. Metropolitan ceased deliveries under the Replenishment Service Program on May 1, 2007. On May 10, 2011, Metropolitan's Board authorized the sale of up to 225,000 acre-feet of ~~discounted~~ Replenishment Service Program deliveries to member agencies between May 10, 2011 and December 31, 2011. No Replenishment Service Program sales were included in Metropolitan's fiscal year 2012-13 and 2013-14 budgets and no Replenishment Service Program sales are included in financial projections for fiscal years 2014-15 through 2016-17. No Replenishment Rates were adopted for 2013 or 2014. See table entitled "SUMMARY OF WATER RATES" below.

In 2011, Metropolitan staff and the member agencies ~~are currently engaged in~~ began a process to review and refine the Replenishment Program. ~~Changes to the Replenishment Program are anticipated to be considered by Metropolitan's Board in 2012.~~ That process includes discussions of Purchase Order renewal or replacements. See "—Member Agency Purchase Orders" above. Metropolitan and its member agencies continue discussions of a potential incentive-based water storage program that would encourage storing water locally and ensure regional benefit. Ultimately, this new approach could replace the Replenishment Service Program.

~~Replenishment supplies sold at a discount in a given year may offset full service water sales. Metropolitan's water sales projections estimate the level of future production from groundwater, supported by an assumption of replenishment sales. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Projections" in this Appendix A. To the extent that replenishment supplies are not available, estimated levels of future production from groundwater could be lower than estimated, resulting in a higher demand for Metropolitan supplies at full service water rates in the future.~~

Water Rates by Water Category

The following table sets forth Metropolitan's water rates by category beginning January 1, 2008. See also "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Receipts" in this Appendix A. In addition to the base rates for untreated water sold in the different classes of service, the columns labeled "Treated" include the surcharge that Metropolitan charges for water treated at its water treatment plants. See "—Rate Structure" and "—Classes of Water Service" above for a description of current rates. [See "—Litigation Challenging Rate Structure" above for a description of litigation challenging Metropolitan's water rates.](#)

**SUMMARY OF WATER RATES
(Dollars per Acre-Foot)**

	<u>SUPPLY RATE</u>		<u>SYSTEM ACCESS RATE</u>	<u>WATER STEWARDSHIP RATE</u>	<u>SYSTEM POWER RATE</u>	<u>TREATMENT SURCHARGE</u>
	<u>Tier 1</u>	<u>Tier 2</u>				
January 1, 2008	\$ 73	\$171	\$143	\$25	\$110	\$157
January 1, 2009	\$134 † ⁽¹⁾	\$250	\$143	\$25	\$110	\$167
September 1, 2009	\$170 †† ⁽²⁾	\$250	\$154	\$41	\$119	\$217
January 1, 2010	\$170 †† ⁽²⁾	\$280	\$154	\$41	\$119	\$217
January 1, 2011	\$155 ††† ⁽³⁾	\$280	\$204	\$41	\$127	\$217
January 1, 2012	\$164 ††† ⁽³⁾	\$290	\$217	\$43	\$136	\$234
January 1, 2013*	\$140 †††† ⁽⁴⁾	\$290	\$223	\$41	\$189	\$254
January 1, 2014*	\$148 †††† ⁽⁴⁾	\$290	\$243	\$41	\$161	\$297

	<u>FULL SERVICE TREATED⁽⁴⁵⁾</u>		<u>FULL SERVICE UNTREATED⁽⁴⁶⁾</u>		<u>INTERIM AGRICULTURAL PROGRAM</u>		<u>REPLENISHMENT RATE</u>	
	<u>Tier 1</u>	<u>Tier 2</u>	<u>Tier 1</u>	<u>Tier 2</u>	<u>Treated</u>	<u>Untreated</u>	<u>Treated</u>	<u>Untreated</u>
January 1, 2008	\$508	\$606	\$351	\$449	\$394	\$261	\$390	\$258
January 1, 2009	\$579	\$695	\$412	\$528	\$465†	\$322†	\$436	\$294
September 1, 2009	\$701	\$781	\$484	\$564	\$587	\$394	\$558	\$366
January 1, 2010	\$701	\$811	\$484	\$594	\$615	\$416	\$558	\$366
January 1, 2011	\$744	\$869	\$527	\$652	\$687	\$482	\$601	\$409
January 1, 2012	\$794	\$920	\$560	\$686	\$765	\$537	\$651	\$442
January 1, 2013*	\$847	\$997	\$593	\$743	**	**	**	**
January 1, 2014*	\$890	\$1,032	\$593	\$735	**	**	**	**

Source: Metropolitan.

- * Rates effective January 1, 2013 and January 1, 2014 were adopted by Metropolitan's Board on April 10, 2012.
- ** The Interim Agricultural Water Program will be discontinued after 2012. Discussions on the ~~replenishment program~~ Replenishment Service Program and potential incentive-based water storage programs are continuing with Metropolitan's member agencies. No Replenishment Rates have been adopted for 2013 or 2014.
- ~~†~~⁽¹⁾ Includes \$25 per acre-foot Water Supply Surcharge.
- ~~††~~⁽²⁾ Includes \$69 per acre-foot Delta Supply Surcharge, which replaced Water Supply Surcharge.
- ~~†††~~⁽³⁾ Includes \$51 and \$58 per acre-~~feet~~^{foot} Delta Supply Surcharge for January 1, 2011 and January 1, 2012, respectively.
- ~~††††~~⁽⁴⁾ Excludes Delta Supply Surcharge, which will be suspended for 2013 and 2014.
- ~~(45)~~ Full service treated water rates are the sum of the applicable Supply Rate, System Access Rate, Water Stewardship Rate, System Power Rate and Treatment Surcharge.
- ~~(46)~~ Full service untreated water rates are the sum of the applicable Supply Rate, System Access Rate, Water Stewardship Rate and System Power Rate.

Additional Revenue Components

Additional charges for the availability of Metropolitan's water are:

Readiness-to-Serve Charge. This charge is designed to recover a portion of the principal and interest payments on water revenue bonds issued to fund capital improvements necessary to meet continuing reliability and water quality needs. The Readiness-to-Serve Charge ("RTS") is allocated to each member agency in proportion to the rolling ten-year share of deliveries through Metropolitan's system. The RTS

generated \$101.9 million in fiscal year 2009-10, \$119.2 million in fiscal year 2010-11 and \$133.9 million in fiscal year 2011-12.

Water Standby Charges. The Board is authorized to impose water standby or availability of service charges. In May 1993, the Board imposed a water standby charge for fiscal year 1993-94 ranging from \$6.94 to \$15 for each acre or parcel less than an acre within Metropolitan's service area, subject to specified exempt categories. Water standby charges have been imposed at the same rate in each year since 1993-94. Standby charges are assessments under the terms of Proposition 218, a State constitutional ballot initiative approved by the voters on November 5, 1996. See "—California Ballot Initiatives" below.

Member agencies have the option to utilize Metropolitan's existing standby charge authority as a means to collect all or a portion of their RTS charge. Standby charge collections are credited against the member agencies' RTS charges. See "—Readiness-to-Serve Charge" above. Twenty-two member agencies collect their RTS charges through standby charges. For fiscal years 2009-10, 2010-11 and 2011-12 RTS charges collected by means of such standby charges were \$42.8 million, \$43.2 million and \$42.9 million, respectively.

Capacity Charge. The Capacity Charge is a fixed charge levied on the maximum summer day demand placed on Metropolitan's system between May 1 and December 30 for the three-calendar-year period ended December 31, 2008 and December 31, 2009 for charges effective 2010 and 2011 respectively. The Capacity Charge is intended to recover the cost of providing peak capacity within the distribution system. Effective January 1, 2011, the Capacity Charge was \$7,200 per cfs of maximum daily flow, which increased to \$7,400 per cfs on January 1, 2012 and will decrease to \$6,400 per cfs and increase to \$8,600 per cfs, effective January 1, 2013 and January 1, 2014, respectively.

Financial Reserve Policy

Metropolitan's reserve policy currently provides for a minimum unrestricted reserve balance at June 30 of each year that is based on probability studies of the wet periods that affect Metropolitan's water sales. The policy establishes a minimum targeted unrestricted reserve level based on an 18-month revenue shortfall estimate and a maximum level based on an additional two years revenue shortfall estimate. The Water Rate Stabilization and Revenue Remainder funds increased by \$35.7 million in fiscal year 2008-09 and decreased by \$29 million in fiscal year 2009-10 and \$61 million during fiscal year 2010-11, which includes \$13 million held in financial reserves pursuant to the exchange contract between Metropolitan and SDCWA (see "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct—Sale of Water by the Imperial Irrigation District to San Diego County Water Authority") due to the SDCWA litigation challenging Metropolitan's rate structure. See "METROPOLITAN REVENUES—Litigation Challenging Rate Structure." Additional transfers related to the SDCWA litigation were made during fiscal year 2011-12, such that this reserve increased to \$50 million by the end of fiscal year 2011-12. As of June 30, 2012, the minimum reserve requirement was \$190 million. The maximum reserve limit at June 30, 2012 was \$458 million. Funds representing the minimum reserve level are held in the Revenue Remainder Fund, and any funds in excess of the minimum reserve level (up to the maximum reserve level) are held in the Water Rate Stabilization Fund. Reserves at June 30, 2012 totaled \$332 million, consisting of Water Rate Stabilization Fund, Revenue Remainder Fund and Water Stewardship Fund balances including the \$50 million held in Metropolitan's financial reserves pursuant to the exchange contract between Metropolitan and SDCWA due to SDCWA's litigation challenging Metropolitan's rate structure. See "METROPOLITAN REVENUES—Rate Structure", "—Litigation Challenging Rate Structure" and "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Receipts" in this Appendix A and "THE MASTER RESOLUTION—Water Revenue Fund—Revenue Remainder Fund" in Appendix C—SUMMARY OF CERTAIN PROVISIONS OF THE RESOLUTIONS. Unrestricted reserves in excess of the maximum reserve level may be used for any lawful purpose of Metropolitan, as directed by the Board. Consistent with State legislation, Metropolitan will ensure that any funds in excess of maximum reserve levels that are distributed to member agencies will be distributed in

proportion to water sales revenues received from each member agency. Since actual reserve balances were less than the maximum reserve limit at June 30, 2012, no action was taken by the Board. Unrestricted reserve balances include amounts held as collateral, from time to time, by Metropolitan's swap counterparties. In addition, Metropolitan maintains various restricted reserves, including reserves for risk retention, operations and maintenance expenses, State Water Contract payments, and other obligations and purposes.

Wheeling and Exchange Charges

The process for the delivery of water not owned or controlled by Metropolitan is referred to as "wheeling." Under the current rate structure, wheeling parties pay the System Access Rate and Water Stewardship Rate, Treatment Surcharge (if applicable) and power costs for wheeling transactions. See "—Rate Structure" above. These payments are included in Net Operating Revenues. Wheeling and exchange revenues totaled \$53.7 million during fiscal year 2009-10, \$51.8 million during fiscal year 2010-11, and \$89.6 million in fiscal year 2011-12. See "—Litigation Challenging Rate Structure" above for a description of litigation ~~filed~~ by the SDCWA and IID challenging Metropolitan's System Access Rate and Water Stewardship Rate.

Hydroelectric Power Recovery Revenues

Metropolitan has constructed 16 small hydroelectric plants on its distribution system. The plants are located in Los Angeles, Orange, Riverside and San Diego Counties at existing pressure control structures and other locations. The combined generating capacity of these plants is approximately 122 megawatts. The total capital cost of these 16 facilities is approximately \$176.1 million. Since 2000, annual energy generation sales revenues have ranged between \$16 million and \$27 million. Energy generation sales revenues were \$22.1 million for fiscal year 2010-11 and \$31.0 million in fiscal year 2011-12.

Power from five of the plants is sold to DWR under an existing contract at a price based on a contractual unit rate methodology to supply power to the State Water Project. This price is renegotiated every six years. For 2007 through 2012, the unit rate is determined by fixed and variable components. One variable component represents an incremental fuel price based on a five-year rolling average gas price.

Power from nine of the plants was sold to the Southern California Edison Company, a subsidiary of Edison International ("Edison") through October 31, 2008. Three new contracts effective November 1, 2008, split power sales from the nine plants among Edison, Los Angeles Department of Water and Power and the Southern California Public Power Authority. All three contracts are for the sale of renewable power and are based on a fixed energy rate for the term of the contracts. The minimum contract term is five years and maximum term is fifteen years.

Energy generation from a fifteenth plant, the Etiwanda Power Plant, is sold to the Pacific Gas and Electric Company ("PG&E") under a contract that was amended in November 2004 to accommodate terminating transmission and scheduling arrangements. The contract energy price is based on a formula that includes a monthly gas rate, a capital related cost and a performance factor. The contract is subject to renegotiation upon the occurrence of specified events and can be terminated by either party under various conditions and circumstances, beginning in 2014.

The sixteenth plant, the Diamond Valley Lake Hydroelectric Power Plant, began generating on May 23, 2001, and its current maximum dependable output is 21 megawatts. Actual generation is determined by water delivery requirements and is sold at market rates to various buyers.

Principal Customers

All of Metropolitan's regular customers are member agencies. Total water sales to the member agencies accrued for the fiscal year ended June 30, 2012 were 1.71 million acre-feet, generating \$1.10 billion

in water sales revenues for such period. Metropolitan's ten largest water customers in the year ended June 30, 2012 are shown in the following table, on an accrual basis. On June 11, 2010, the SDCWA filed litigation challenging Metropolitan's rates. See "—Litigation Challenging Rate Structure" above.

TEN LARGEST WATER CUSTOMERS
Year Ended June 30, 2012
Accrual Basis (Unaudited)

Agency	Water Sales Revenues	Percent of Total	Water Sales in Acre-Feet	Percent of Total
San Diego County Water Authority	\$ 231,573,403	21.1%	437,559	25.6%
MWD of Orange County	175,764,840	16.0	255,570	15.0
City of Los Angeles	129,679,515	11.8	209,746	12.3
West Basin MWD	87,113,090	8.0	113,366	6.6
Calleguas MWD	78,808,781	7.2	102,684	6.0
Eastern MWD	62,578,807	5.7	90,956	5.3
Western MWD	53,107,772	4.8	76,783	4.5
Three Valleys MWD	40,067,057	3.7	62,197	3.6
Inland Empire Utilities Agency	38,581,286	3.5	76,203	4.5
Central Basin MWD	34,798,440	3.2	51,484	3.0
Total	\$ 932,072,990	85.1%	1,476,547	86.5%
Total Water Sales Revenues	\$ 1,095,742,520	Total Acre-Feet	1,707,534	

Source: Metropolitan.

Preferential Rights

Section 135 of the Act gives each of Metropolitan's member agencies a preferential entitlement to purchase a portion of the water served by Metropolitan, based upon a ratio of all payments on tax assessments and otherwise, except purchases of water, made to Metropolitan by the member agency compared to total payments made by all member agencies on tax assessments and otherwise since Metropolitan was formed, except purchases of water. Historically, these rights have not been used in allocating Metropolitan's water. The California Court of Appeal has upheld Metropolitan's methodology for calculation of the respective member agencies' preferential rights under Section 135 of the Act. [SDCWA's litigation challenging Metropolitan's water rates also challenges Metropolitan's exclusion of payments for exchange water from the calculation of SDCWA's preferential right. See "—Litigation Challenging Rate Structure" above.](#)

California Ballot Initiatives

Proposition 218, a State ballot initiative known as the "Right to Vote on Taxes Act," was approved by the voters on November 5, 1996 adding Articles XIII C and XIII D to the California Constitution. Article XIII D provides substantive and procedural requirements on the imposition, extension or increase of any "fee" or "charge" levied by a local government upon a parcel of real property or upon a person as an incident of property ownership. As a wholesaler, Metropolitan serves water to its member agencies, not to persons or properties as an incident of property ownership. Thus, water rates charged by Metropolitan to its member agencies are not property related fees and charges and therefore are exempt from the requirements of Article XIII D. Fees for water service by Metropolitan's member agencies or their agencies providing retail water service are subject to the requirements of Article XIII D.

Article XIID also imposes certain procedures with respect to assessments. Under Article XIID, “standby charges” are considered “assessments” and must follow the procedures required for “assessments.” Metropolitan has imposed water standby charges since 1992. Any change to Metropolitan’s current standby charges could require notice to property owners and approval by a majority of such owners returning mail-in ballots approving or rejecting any imposition or increase of such standby charge. Twenty-two member agencies have elected to collect all or a portion of their readiness-to-serve charges through standby charges. See “—Additional Revenue Components—*Readiness-to-Serve Charge*” and “—*Water Standby Charges*” above. Even if Article XIID is construed to limit the ability of Metropolitan and its member agencies to impose or collect standby charges, the member agencies will continue to be obligated to pay the readiness-to-serve charges.

Article XIIC extends the people’s initiative power to reduce or repeal previously authorized local taxes, assessments fees and charges. This extension of the initiative power is not limited by the terms of Article XIIC to fees imposed after November 6, 1996 or to property-related fees and charges and absent other authority could result in retroactive reduction in existing taxes, assessments or fees and charges.

Proposition 26, a State ballot initiative aimed at restricting regulatory fees and charges, was approved by the California voters on November 2, 2010. Proposition 26 broadens the definition of “tax” in Article XIIC of the California Constitution to include levies, charges and exactions imposed by local governments, except for charges imposed for benefits or privileges or for services or products granted to the payor (and not provided to those not charged) that do not exceed their reasonable cost; regulatory fees that do not exceed the cost of regulation; fees for the use of local governmental property; fines and penalties imposed for violations of law; real property development fees; and assessments and property-related fees imposed under Article XIID of the California Constitution. California local taxes are subject to approval by two-thirds of the voters voting on the ballot measure for authorization. Proposition 26 applies to charges imposed or increased by local governments after the date of its approval. Metropolitan believes its water rates and charges are not taxes under Proposition 26. Nevertheless, Metropolitan is assessing whether Proposition 26 may affect future water rates and charges.

Propositions 218 and 26 were adopted as measures that qualified for the ballot pursuant to the State’s initiative process. From time to time, other initiative measures could be adopted or legislative measures could be approved by the Legislature, which may place limitations on the ability of Metropolitan or its member agencies to increase revenues or to increase appropriations. Such measures may further affect Metropolitan’s ability to collect taxes, assessments or fees and charges, which could have an effect on Metropolitan’s revenues.

Investment of Moneys in Funds and Accounts

All moneys in any of the funds and accounts established pursuant to Metropolitan’s water revenue or general obligation revenue bond resolutions are invested by the Treasurer in accordance with Metropolitan’s Statement of Investment Policy. All Metropolitan funds available for investment are currently invested in United States Treasury and agency securities, commercial paper, negotiable certificates of deposit, banker’s acceptances, corporate notes, municipal bonds, asset-backed, mortgage-backed securities and the California Local Agency Investment Fund (“LAIF”). The LAIF is a voluntary program created by statute as an investment alternative for California’s local governments and special districts. LAIF permits such local agencies to participate in an investment portfolio, which invests billions of dollars, using the investment expertise of the State Treasurer’s Office.

The Statement of Investment Policy provides that in managing Metropolitan’s investments, the primary objective shall be to safeguard the principal of the invested funds. The secondary objective shall be to meet all liquidity requirements and the third objective shall be to achieve a return on the invested funds. Although the Statement of Investment Policy permits investments in some asset-backed securities, the

portfolio does not include any of the special investment vehicles related to sub-prime mortgages. Revisions to the Statement of Investment Policy were adopted by Metropolitan's Board on June 7, 2011 which allow Metropolitan to exceed the portfolio and single issuer limits for purchases of California local agency securities when purchasing Metropolitan tendered bonds in conjunction with its self-liquidity program. See "METROPOLITAN EXPENDITURES—Variable Rate and Swap Obligations" in this Appendix A. Metropolitan's current investments comply with the Statement of Investment Policy.

As of July 31, 2012, the total market value of all Metropolitan funds was \$965.3 million and includes amounts held as collateral, from time to time, by Metropolitan's swap counterparties. See "METROPOLITAN EXPENDITURES—Variable Rate and Swap Obligations" in this Appendix A. In fiscal year 2011-12, Metropolitan's earnings on investments, including adjustments for gains and losses and premiums and discounts, on a cash basis (unaudited) were \$17.8 million. In fiscal year 2010-11, Metropolitan's earnings on investments, including adjustments for gains and losses and premiums and discounts, on a cash basis (unaudited) were \$20.0 million. ~~In fiscal year 2009-10, Metropolitan's earnings on investments, including adjustments for gains and losses and premiums and discounts,~~ on a cash basis (unaudited), including construction account and trust fund earnings, were \$29.520.0 million. In fiscal year ~~2008-09, 2009-10,~~ Metropolitan's earnings on investments, including adjustments for gains and losses and premiums and discounts, on a cash basis (unaudited) were \$36.429.5 million, including construction account and trust fund earnings. See Footnote 3 to Metropolitan's audited financial statements in Appendix B for additional information on the investment portfolio.

Metropolitan's regulations require that (1) the Treasurer provide an annual Statement of Investment Policy for approval by Metropolitan's Board, (2) the Treasurer provide a monthly investment report to the Board and the General Manager showing by fund the description, maturity date, yield, par, cost and current market value of each security, and (3) the General Counsel review as to eligibility the securities invested in by the Treasurer for that month and report his or her determinations to the Board. The Board approved the Statement of Investment Policy for fiscal year 2012-13 on June 12, 2012.

Subject to the provisions of Metropolitan's water revenue or general obligation bond resolutions, obligations purchased by the investment of bond proceeds in the various funds and accounts established pursuant to a bond resolution are deemed at all times to be a part of such funds and accounts and any income realized from investment of amounts on deposit in any fund or account therein will be credited to such fund or account. The Treasurer is required to sell or present for redemption any investments whenever it may be necessary to do so in order to provide moneys to meet required payments or transfers from such funds and accounts. For the purpose of determining at any given time the balance in any such funds, any such investments constituting a part of such funds and accounts will be valued at the then estimated or appraised market value of such investments.

All investments, including those authorized by law from time to time for investments by public agencies, contain certain risks. Such risks include, but are not limited to, a lower rate of return than expected and loss or delayed receipt of principal. The occurrence of these events with respect to amounts held under Metropolitan's water revenue or general obligation revenue bond resolutions, or other amounts held by Metropolitan, could have a material adverse effect on Metropolitan's finances. These risks may be mitigated, but are not eliminated, by limitations imposed on the portfolio management process by Metropolitan's Statement of Investment Policy.

The Statement of Investment Policy requires that investments have a minimum credit rating of A1/P1/F1 for short-term securities and A for longer-term securities at the time of purchase. If immediate liquidation of a security downgraded below these levels is not in the best interests of Metropolitan, the Treasurer or investment manager, in consultation with an ad hoc committee made up of the Chairman of the Board, the Chairman of the Finance and Insurance Committee and the General Manager, and with the concurrence of the General Counsel, may dispose of the security in an orderly and prudent manner

considering the circumstances, under terms and conditions approved by a majority of the members of such ad hoc committee. The Treasurer is required to include a description of any securities that have been downgraded below investment grade and the status of their disposition in the Treasurer's monthly report.

The Statement of Investment Policy also limits the amount of securities that can be purchased by category, as well as by issuer, and prohibits investments that can result in zero interest income. Metropolitan's securities are settled on a delivery versus payment basis and are held by an independent third-party custodian. See Appendix B - "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED)" for a description of Metropolitan's investments at June 30, 2011.

Metropolitan retains two outside investment firms to manage the long-term portion of Metropolitan's portfolio. The outside managers are required to adhere to Metropolitan's Statement of Investment Policy. As of July 31, 2012, such managers are managing approximately \$325.4 million in investments on behalf of Metropolitan. Metropolitan's Statement of Investment Policy may be changed at any time by the Board (subject to State law provisions relating to authorized investments). There can be no assurance that the State law and/or the Statement of Investment Policy will not be amended in the future to allow for investments that are currently not permitted under State law or the Statement of Investment Policy, or that the objectives of Metropolitan with respect to investments or its investment holdings at any point in time will not change.

METROPOLITAN EXPENDITURES

General

The following table sets forth a summary of Metropolitan's expenditures, by major function, for the five years ended June 30, 2012. The table provides cash basis information, which is unaudited. Expenses of Metropolitan for the fiscal years ended June 30, 2011 and June 30, 2010, on an accrual basis, are shown in Appendix B - "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED)."

SUMMARY OF EXPENDITURES

Fiscal Years Ended June 30 (Dollars in Millions)

	2008	2009	2010	2011	2012
Operation and Maintenance Costs ⁽¹⁾	\$ 416.9	\$ 455.6	\$ 441.6	\$ 430.8	\$ 425.3
Total State Water Project and Water Transfers ⁽²⁾	564.9	478.8	560.1	593.4	535.4
Total Debt Service	268.5	281.6	287.0	306.7	323.0
Construction Disbursements from Revenues ⁽³⁾	45.4	30.6	35.1	45.0	44.2
Other ⁽⁴⁾	6.4	8.3	5.3	2.4	2.8
Total Disbursements (net of reimbursements) ⁽⁵⁾	<u>\$1,302.1</u>	<u>\$1,254.9</u>	<u>\$1,329.1</u>	<u>\$1,378.3</u>	<u>\$1,334.3</u>

Source: Metropolitan.

- (1) Includes inventories, undistributed payroll, local resource programs, conservation programs and Colorado River Aqueduct (CRA) power. See the table headed "Summary of Receipts by Source" under "METROPOLITAN REVENUES" in this Appendix A.
- (2) Includes both operating and capital expense portions. See "METROPOLITAN'S WATER SUPPLY—Water Transfer, Storage and Exchange Programs" and "POWER SOURCES AND COSTS" in this Appendix A.
- (3) At the discretion of the Board, in any given year, Metropolitan may increase or decrease funding available for construction disbursements to be paid from revenues. Disbursements paid from revenues decreased in fiscal years 2007-08 and 2008-09, primarily due to the Board's policy to

maintain adequate reserve levels in the rate stabilization funds to mitigate future increases in water rates and charges. See "METROPOLITAN REVENUES—Financial Reserve Policy" in this Appendix A. Does not include expenditures of bond proceeds.

- (4) Includes operating equipment and arbitrage rebate.
- (5) Disbursements exceeded revenues in the fiscal years ended June 30, 2008, 2010 and 2011. See "METROPOLITAN REVENUES—Financial Reserve Policy" in this Appendix A.

Revenue Bond Indebtedness

Metropolitan has issued the following water revenue bonds, which as of August 1, 2012, were outstanding in the amounts set forth below:

<u>Name of Issue</u>	<u>Original Amount Issued</u>	<u>Principal Outstanding</u>
Water Revenue Bonds, Issue of 1991	\$ 300,000,000	\$ -0-
Water Revenue Bonds, Issue of 1992	550,000,000	-0-
Water Revenue Refunding Bonds, 1993 Series A	168,759,889	105,185,000
Water Revenue Refunding Bonds, 1993 Series B	89,595,000	-0-
Water Revenue Bonds, 1995 Series A	175,000,000	-0-
Water Revenue Refunding Bonds, 1996 Series A	108,375,000	-0-
Water Revenue Refunding Bonds, 1996 Series B	258,875,000	-0-
Water Revenue Bonds, 1996 Series C	377,500,000	-0-
Water Revenue Bonds, 1997 Authorization, Series A	650,000,000	-0-
Water Revenue Bonds, 1997 Authorization, Series B and Series C ⁽¹⁾	100,000,000	100,000,000
Water Revenue Refunding Bonds, 1998 Series A	148,705,000	-0-
Water Revenue Bonds, 1999 Authorization, Series A	100,000,000	-0-
Water Revenue Bonds, 1999 Authorization, Series B and Series C	100,000,000	-0-
Water Revenue Bonds, 2000 Series B1-B4 ⁽¹⁾	355,200,000	266,400,000
Water Revenue Refunding Bonds, 2001 Series A	195,670,000	-0-
Water Revenue Refunding Bonds, 2001 Series B1 and B-2	224,800,000	-0-
Water Revenue Bonds, 2001 Series C-1 and C-2	200,000,000	-0-
Water Revenue Refunding Bonds, 2002 Series A	96,640,000	-0-
Water Revenue Refunding Bonds, 2002 Series B	35,600,000	-0-
Water Revenue Refunding Bonds, 2003 Series A	36,215,000	25,910,000
Water Revenue Bonds, 2003 Authorization, Series B-1	105,580,000	-0-
Water Revenue Bonds, 2003 Authorization, Series B-2	94,420,000	-0-
Water Revenue Refunding Bonds, 2003 Series C-1, C-2 and C-3	338,230,000	-0-
Water Revenue Refunding Bonds, 2004 Series A-1 and A-2 ⁽¹⁾	162,455,000	94,530,000
Water Revenue Refunding Bonds, 2004 Series B	274,415,000	120,820,000
Water Revenue Bonds, 2003 Authorization, Series B-3 and B-4	300,000,000 262,2	92,430,000 54,725
	<u>95,000</u>	<u>,000</u>
<u>Water Revenue Bonds, 2003 Authorization, Series B-4</u>	<u>37,705,000</u>	<u>37,705,000</u>
Water Revenue Refunding Bonds, 2004 Series C	136,090,000	-0-
Water Revenue Bonds, 2005 Authorization, Series A	100,000,000	80,855,000
Water Revenue Bonds, 2005 Authorization, Series B-1 and B-2	100,000,000	-0-
Water Revenue Refunding Bonds, 2006 Series A-1 and A-2 ^{(1)*}	74,140,000	41,325,000
Water Revenue Bonds, 2005 Authorization, Series C	200,000,000	175,000,000
Water Revenue Bonds, 2005 Authorization, Series D-1 and D-2	100,000,000	-0-
Water Revenue Refunding Bonds, 2006 Series B	45,875,000	24,055,000
Water Revenue Bonds, 2006 Authorization, Series A	400,000,000	394,830,000
Water Revenue Bonds, 2006 Authorization, Series B	100,000,000	-0-
Water Revenue Refunding Bonds, 2007 Series A-1 and A-2	218,425,000	-0-
Water Revenue Refunding Bonds, 2007 Series B	81,900,000	-0-
Water Revenue Refunding Bonds, 2008 Series A-1 ⁽¹⁾	250,940,000	36,995,000
Water Revenue Refunding Bonds, 2008 Series A-2 ⁽¹⁾	250,635,000	150,385,000
Water Revenue Refunding Bonds, 2008 Series B	133,430,000	127,695,000
Water Revenue Refunding Bonds, 2008 Series C	79,045,000	55,110,000
Water Revenue Bonds, 2008 Authorization, Series A	200,000,000	196,025,000
Water Revenue Refunding Bonds, 2009 Series A-1 and A-2 ⁽¹⁾	208,365,000	208,365,000
Water Revenue Refunding Bonds, 2009 Series B	106,690,000	106,690,000
Water Revenue Refunding Bonds, 2009 Series C	91,165,000	91,165,000
Water Revenue Bonds, 2008 Authorization, Series B	21,615,000	19,465,000
Water Revenue Bonds, 2008 Authorization, Series C ⁽²⁾	78,385,000	78,385,000
Water Revenue Bonds, 2008 Authorization, Series D ⁽²⁾	250,000,000	250,000,000

<u>Name of Issue</u>	<u>Original Amount Issued</u>	<u>Principal Outstanding</u>
Water Revenue Refunding Bonds, 2009 Series D	81,065,000	75,825,000
Water Revenue Refunding Bonds, 2009 Series E	26,050,000	23,585,000
Water Revenue Refunding Bonds, Special Variable Rate, 2010 Series A ⁽¹⁾	128,005,000	100,685,000
Water Revenue Refunding Bonds, 2010 Series B	88,845,000	88,845,000
Water Revenue Bonds, 2010 Authorization, Series A ⁽²⁾	250,000,000	250,000,000
Water Revenue Refunding Bonds, 2011 Series A1-A4 ⁽¹⁾	228,875,000	228,875,000
Water Revenue Refunding Bonds, 2011 Series B	167,885,000	167,885,000
		<u>137,000</u>
		<u>15,000</u>
<i>(Continued on next page)</i>		
<i>(Continued from previous page)</i>		
Water Revenue Refunding Bonds, 2011 Series C	<u>\$ 157,100,000</u>	<u>\$ 157,100,000</u>
<i>(Footnotes on next page)</i>		
Water Revenue Refunding Bonds, 2012 Series A	181,180,000	181,180,000
Water Revenue Refunding Bonds, 2012 Series B-1 and B-2 ⁽¹⁾	98,585,000	98,585,000
Water Revenue Refunding Bonds, 2012 Series C	190,600,000	190,600,000
Water Revenue Refunding Bonds, 2012 Series D	39,520,000	39,520,000
Water Revenue Refunding Bonds, 2012 Series E1-E3	<u>89,460,000</u>	<u>89,460,000</u>
Total	\$10,499,904,889	\$4,533,765,000 <u>502,895,000</u>

Source: Metropolitan.

- (1) Outstanding variable rate obligation.
- (2) Designated as "Build America Bonds" pursuant to the American Recovery and Reinvestment Act of 2009.

* Metropolitan expects to issue its Water Revenue Refunding Bonds, 2012 Series F to refund these bonds. All or a portion of other series of Metropolitan fixed rate bonds may be refunded from the proceeds of the 2012 Series F Bonds.

Limitations on Additional Revenue Bonds

Resolution 8329, adopted by Metropolitan's Board on July 9, 1991, as amended and supplemented (collectively with all such supplemental resolutions, the "Revenue Bond Resolutions") provide for the issuance of Metropolitan's water revenue bonds. The Revenue Bond Resolutions establish limitations on the issuance of additional obligations payable from Net Operating Revenues. Under the Revenue Bond Resolutions, no additional bonds, notes or other evidences of indebtedness payable out of Operating Revenues may be issued having any priority in payment of principal, redemption premium, if any, or interest over any water revenue bonds or Parity Obligations. No additional Parity Bonds or Parity Obligations may be issued or incurred unless the conditions of the Revenue Bond Resolutions have been satisfied.

The laws governing Metropolitan's ability to issue water revenue bonds currently provide two additional limitations on indebtedness that may be incurred by Metropolitan. The Act provides for a limit on general obligation bonds, water revenue bonds and other evidences of indebtedness at 15 percent of the assessed value of all taxable property within Metropolitan's service area. As of August 1, 2012, outstanding general obligation bonds, water revenue bonds and other evidences of indebtedness in the amount of ~~\$4.744.71~~ billion represented approximately ~~0.230.22~~ percent of the fiscal year ~~2011-12~~ 2012-13 taxable assessed valuation of ~~\$2,067.52,097.4~~ billion. The second limitation under the Act specifies that no revenue bonds may be issued, except for the purpose of refunding, unless the amount of net assets of Metropolitan as shown on its balance sheet as of the end of the last fiscal year prior to the issuance of such bonds, equals at least 100 percent of the aggregate amount of revenue bonds outstanding following the issuance of such bonds. The net assets of Metropolitan at June 30, 2012 were \$6.44 billion. The aggregate amount of revenue bonds outstanding as of August 1, 2012 was ~~\$4.534.50~~ billion. The limitation does not apply to other forms of financing available to Metropolitan. Audited financial statements including the net assets of Metropolitan as of June 30, 2011 and June 30, 2010, respectively, are shown in Appendix B – "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND

FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED).” Metropolitan provides no assurance that the Act’s limitations on indebtedness will not be revised or removed by future legislation. Limitations under the Revenue Bond Resolutions respecting the issuance of additional obligations payable from Net Operating Revenues on a parity with water revenue bonds of Metropolitan will remain in effect so long as any water revenue bonds authorized pursuant to the Revenue Bond Resolutions are outstanding, provided however, that the Revenue Bond Resolutions are subject to amendment and supplement in accordance with their terms.

Variable Rate and Swap Obligations

As of August 1, 2012, Metropolitan had outstanding \$1.33 billion of variable rate obligations, including ~~\$535.8 million of~~ bonds bearing interest in the Index Mode (the “Index Tender Bonds”) and ~~\$100.7 million of~~ special variable rate bonds initially designated as self-liquidity bonds (the “Self-Liquidity Bonds”). ~~The~~

Metropolitan’s \$535.8 million of Index Tender Bonds bear interest at a rate that fluctuates weekly based on the SIFMA Municipal Swap Index published weekly by Municipal Market Data; however, if the purchase price of a series of Index Tender Bonds is not paid from proceeds of a remarketing or other funds following a scheduled mandatory tender, such Index Tender Bonds will bear interest at a default rate of up to twelve percent per annum until purchased by Metropolitan or redeemed. ~~The~~Metropolitan’s obligation to pay the purchase price of Index Tender Bonds is an unsecured, special limited obligation of Metropolitan payable from Net Operating Revenues. Metropolitan has not secured any liquidity facility or letter of credit to pay the purchase price of any tendered Index Tender Bonds.

Metropolitan’s \$100.7 million of Self-Liquidity Bonds are variable rate demand bonds that bear interest at a weekly rate determined by the remarketing agent for the Self-Liquidity Bonds. The Self-Liquidity Bonds are subject to optional tender upon seven days’ notice by the owners thereof and mandatory tender upon specified events. Metropolitan is irrevocably committed to purchase all Self-Liquidity Bonds tendered pursuant to any optional or mandatory tender to the extent that remarketing proceeds are insufficient therefor. Metropolitan’s obligation to pay the purchase price of any tendered Self-Liquidity Bonds is an unsecured, special limited obligation of Metropolitan payable from Net Operating Revenues and other available funds. Metropolitan has not secured any liquidity facility or letter of credit to pay the purchase price of any tendered Self-Liquidity Bonds. ~~See “Other Revenue Obligations” below.~~

The interest rates for Metropolitan’s other variable rate demand obligations, totaling \$689.6 million, are reset on a daily or weekly basis. Such variable rate demand obligations are supported by Standby Bond Purchase Agreements between Metropolitan and various liquidity providers. ~~As of August 1, 2012, the that provide for purchase of variable rate bonds by the applicable liquidity provider upon tender of such variable rate bonds and a failed remarketing. A decline in the creditworthiness of a liquidity provider will likely result in an increase in the interest rate of the applicable variable rate bonds, as well as an increase in the risk of a failed remarketing of such tendered variable rate bonds. Variable rate bonds purchased by a liquidity provider bear interest at a significantly higher interest rate and Metropolitan’s obligation to reimburse the liquidity provider may convert the term of the variable rate bonds purchased by the liquidity provider into a term loan amortizable over a period of up to three years, depending on the applicable liquidity facility.~~

The following table sets forth a listing of the liquidity providers, the expiration date of each facility and the principal amount of outstanding bonds covered under each facility: ~~as of August 1, 2012.~~

Liquidity Provider	Bond Issue	Principal Outstanding	Facility Expiration
Barclays Bank PLC	2008 Series A-2	\$150,385,000	September 2013
	Total	\$150,385,000	
Bank of America, N.A.	2008 Series A-1	\$36,995,000	September 2014
	Total	\$36,995,000	
JP Morgan Chase Bank ⁽¹⁾	2004 Series A-1	\$ 47,265,000	September 2012
	2004 Series A-2	47,265,000	September 2012
	Total	\$94,530,000	
Wells Fargo Bank, N.A.	2000 Series B-3	\$ 88,800,000	February 2014
	2000 Series B-4	88,800,000	February 2014
	Total	\$177,600,000	
Banco Bilbao Vizcaya Argentaria, S.A. (BBVA)	2000 Series B-2	\$ 88,800,000	July 2013
	2006 Series A-1*	20,660,000	May 2013
	2006 Series A-2*	20,665,000	May 2013
	Total	\$130,125,000	
Landesbank Hessen-Thüringen Girozentrale (Helaba)	1997 Series B	\$ 50,000,000	December 2015 ⁽²⁾
	1997 Series C	50,000,000	December 2015 ⁽²⁾
	Total	\$100,000,000	
Total		\$689,635,000	

Source: Metropolitan.

(1) Metropolitan intends to replace this facility prior to its September 2012 expiration.

(2) Subject to earlier termination on December 31, 2012.

* [Metropolitan expects to issue its Water Revenue Refunding Bonds, 2012 Series F to refund these bonds. All or a portion of other series of Metropolitan fixed rate bonds may be refunded from the proceeds of the 2012 Series F Bonds.](#)

Included in Metropolitan's \$1.33 billion of variable rate obligations are \$807.8 million of variable rate demand obligations which, by virtue of interest rate swap agreements, are treated by Metropolitan as fixed rate debt for the purpose of calculating debt service requirements, although the variable payments that Metropolitan receives from swap counterparties do not usually equal the payments that Metropolitan makes on associated variable rate debt. The remaining \$518 million of variable rate obligations represent approximately 11 percent of total outstanding water revenue bonds.

Metropolitan's variable rate exposure policy requires that variable rate debt be managed to limit net interest cost increases within a fiscal year as a result of interest rate changes to no more than \$5 million. In addition, the maximum amount of variable interest rate exposure (excluding variable rate bonds associated with interest rate swap agreements) is limited to 40 percent of total outstanding water revenue bond debt. Variable rate debt capacity will be reevaluated as interest rates change and managed within these parameters.

By resolution adopted on September 11, 2001, Metropolitan's Board authorized the execution of interest rate swap transactions and related agreements in accordance with a master swap policy, which was subsequently amended by resolutions adopted on July 14, 2009 and May 11, 2010. Metropolitan may execute interest rate swaps if the transaction can be expected to reduce exposure to changes in interest rates

on a particular financial transaction or in the management of interest rate risk derived from Metropolitan's overall asset/liability balance, result in a lower net cost of borrowing or achieve a higher net rate of return on investments made in connection with or incidental to the issuance, incurring or carrying of Metropolitan's obligations or investments, or manage variable interest rate exposure consistent with prudent debt practices and Board-approved guidelines. The Chief Financial Officer reports to the Finance and Insurance Committee of Metropolitan's Board each month on outstanding swap transactions, including notional amounts outstanding, counterparty exposures and termination values based on then-existing market conditions.

Metropolitan currently has two types of interest rate swaps. Under the first type, Metropolitan receives payments that are calculated by reference to a floating interest rate and makes payments that are calculated by reference to a fixed interest rate. These swaps are referred to in the table below as "Fixed Payor Swaps." Under the second type, referred to in the table below as "Basis Swaps," Metropolitan receives payments calculated by reference to a percentage of the taxable index, LIBOR. In return, Metropolitan makes payments that are calculated based on either SIFMA or the taxable short-term index, one-month LIBOR.

Net payments under the terms of the interest rate swap agreements are payable on a parity with the Parity Obligations. Termination payments under the 2002 A and 2002 B interest rate swap agreements would be payable on a parity with the Parity Obligations. All other termination payments related to interest rate swap agreements would be subordinate to the Parity Obligations.

The following swap transactions were outstanding as of August 1, 2012:

FIXED PAYOR SWAPS:

Designation	Notional Amount Outstanding	Swap Counterparty	Fixed Payor Rate	MWD Receives	Maturity Date
2002 A	88,694,700	Morgan Stanley Capital Services, Inc.	3.300	57.74% of one-month LIBOR	7/1/2025
2002 B	33,180,300	JPMorgan Chase Bank	3.300	57.74% of one-month LIBOR	7/1/2025
2003 ⁽¹⁾	163,987,500	Deutsche Bank AG	3.257	61.20% of one-month LIBOR	7/1/2030
2003	163,987,500	JPMorgan Chase Bank	3.257	61.20% of one-month LIBOR	7/1/2030
2004 A	94,530,000	Morgan Stanley Capital Services, Inc.	2.917	61.20% of one-month LIB OR LIBOR	7/1/2023
2004 C	57,733,500	Morgan Stanley Capital Services, Inc.	2.980	61.55% of one-month LIBOR	10/1/2029
2004 C	47,236,500	Citigroup Financial Products, Inc.	2.980	61.55% of one-month LIBOR	10/1/2029
2005	58,547,500	JPMorgan Chase Bank	3.360	70% of 3-month LIBOR	7/1/2030
2005	58,547,500	Citigroup Financial Products, Inc.	3.360	70% of 3-month LIBOR	7/1/2030
2006 ⁽¹⁾	20,697,000 <u>20,697,500</u>	Deutsche Bank AG	3.210	63% of 3-month LIBOR	7/1/2021
2006	<u>20,697,500</u>	JPMorgan Chase Bank	3.210	63% of 3-month LIBOR	7/1/2021
Total	\$807,840,000				

Source: Metropolitan.

(1) The obligations under these interest rate swap agreements were assigned by UBS AG to Deutsche Bank AG, New York Branch, pursuant to novation transactions dated July 22, 2010.

BASIS SWAPS:

Swap	Notional Amount Outstanding	Swap Counterparty	Met Receives	Met Pays	Maturity Date
2004	\$125,000,000	JPMorgan Chase Bank	70% of one-month LIBOR + 31.5 bp	SIFMA	7/1/2014
2004	<u>125,000,000</u>	JPMorgan Chase Bank	70% of one-month LIBOR + 31.5 bp	SIFMA	7/1/2014
Total	\$250,000,000				

Source: Metropolitan.

These interest rate swap agreements entail risk to Metropolitan. The counterparty may fail or be unable to perform, interest rates may vary from assumptions, Metropolitan may be required to post collateral

in favor of its counterparties and Metropolitan may be required to make significant payments in the event of an early termination of an interest rate swap. Metropolitan believes that if such an event were to occur, it would not have a material adverse impact on its financial position. Metropolitan seeks to manage counterparty risk by diversifying its swap counterparties, limiting exposure to any one counterparty, requiring collateralization or other credit enhancement to secure swap payment obligations, and by requiring minimum credit rating levels. Initially swap counterparties must be rated at least "Aa3" or "AA-", or equivalent by any two of the nationally recognized credit rating agencies; or use a "AAA" subsidiary as rated by at least one nationally recognized credit rating agency. Should the credit rating of an existing swap counterparty drop below the required levels, Metropolitan may enter into additional swaps if those swaps are "offsetting" and risk-reducing swaps. Each counterparty is initially required to have minimum capitalization of at least \$150 million. See Note 5(f) in Appendix B - "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED)."

Early termination of an interest rate swap agreement could occur due to a default by either party or the occurrence of a termination event. As of July 31, 2012, Metropolitan would have been required to pay to its counterparties termination payments if some of its swaps were terminated on that date and would have been entitled to receive from its counterparties termination payments if other swaps were terminated on that date. Metropolitan estimated its net exposure to its counterparties for all such termination payments at July 31, 2012, to be approximately \$176 million. Metropolitan does not presently anticipate early termination of any of its interest rate swap agreements due to default by either party or the occurrence of a termination event. However, effective June 28, 2012, Metropolitan exercised optional early termination provisions to terminate all or a portion of certain interest rate swap agreements totaling a notional amount of \$322 million.

Metropolitan is required to post collateral in favor of a counterparty to the extent that Metropolitan's total exposure for termination payments to that counterparty exceeds the threshold specified in the applicable swap agreement. Conversely, the counterparties are required to release collateral to Metropolitan or post collateral for the benefit of Metropolitan as market conditions become favorable to Metropolitan. As of July 31, 2012, Metropolitan had a total of \$29.2 million of collateral posted with three counterparties. The amount of required collateral varies from time to time due primarily to interest rate movements and can change significantly over a short period of time. See "METROPOLITAN REVENUES—Financial Reserve Policy." In the future, Metropolitan may be required to post additional collateral, or may be entitled to a reduction or return of the required collateral amount. Collateral deposited by Metropolitan is held by the counterparties; a bankruptcy of any counterparty holding collateral posted by Metropolitan could adversely affect the return of the collateral to Metropolitan. Moreover, posting collateral limits Metropolitan's liquidity. If collateral requirements increase significantly, Metropolitan's liquidity may be materially adversely affected.

Other Revenue Obligations

Metropolitan's ~~\$535.8 million of Index Tender Bonds, outstanding as of August 1, 2012, are subject to mandatory tender under certain circumstances. Metropolitan anticipates that it will pay the purchase price of tendered Index Tender Bonds~~ 89.5 million of Parity Bonds bearing interest in a term mode (the "Term Mode Bonds") bear interest at a fixed rate for a specified period for each series of up to four years, after which the Term Mode Bonds must be tendered for purchase and a new interest mode shall be determined for such series; however, if the purchase price of a series of Term Mode Bonds is not paid from proceeds of a remarketing such Index Tender Bonds or from other available funds.— following a scheduled mandatory tender, such Term Mode Bonds will bear interest at a default rate of up to twelve percent per annum until purchased by Metropolitan or redeemed. Metropolitan's obligation to pay the purchase price of such ~~Index Tender~~ Term Mode Bonds is an unsecured obligation of Metropolitan ~~that it would pay from Net Operating~~

~~Revenues only after it has made payments and deposits with respect to its Operating Revenues, the Parity Bonds and Parity Obligations and other obligations secured by~~ payable from Net Operating Revenues. Metropolitan has not secured any liquidity facility or letter of credit to ~~support the payment of the purchase price of tendered Index Tender Bonds of any series. If the purchase price of the Index Tender Bonds of any series is not paid, such Index Tender Bonds will be subject to special mandatory redemption, in part, 18, 36 and 54 months following the purchase default. Any such special mandatory redemption payment will constitute a Bond Obligation payable on a parity with the Parity Bonds and Parity Obligations.~~ pay the purchase price of Term Mode Bonds in connection with any scheduled mandatory tender.

~~Metropolitan's \$100.7 million of Self-Liquidity Bonds, outstanding as of August 1, 2012, are subject to mandatory tender under certain circumstances and, while interest thereon is reset on a weekly basis, to optional tender. Metropolitan is irrevocably committed to purchase all tendered Self-Liquidity Bonds to the extent that remarketing proceeds are insufficient therefor and no standby bond purchase agreement or other liquidity facility with a liquidity provider is in effect. Metropolitan's obligation to purchase tendered Self-Liquidity Bonds is an unsecured, special limited obligation of Metropolitan payable from Net Operating Revenues. In addition, Metropolitan's investment policy permits it to purchase tendered Self-Liquidity Bonds as an investment of its investment portfolio (other than amounts in its investment portfolio consisting of bond reserve funds). Thus, while Metropolitan is only obligated to purchase tendered Self-Liquidity Bonds from Net Operating Revenues, Metropolitan may use the cash and investments in its investment portfolio (other than amounts in its investment portfolio consisting of bond reserve funds) to purchase tendered Self-Liquidity Bonds. See "METROPOLITAN REVENUES—Investment of Moneys in Funds and Accounts" in this Appendix A.~~

Subordinate Revenue Obligations

Metropolitan currently is authorized to issue subordinate debt of up to \$400,000,000 of Commercial Paper Notes payable from Net Operating Revenues on a basis subordinate to the Parity Bonds and the Parity Obligations. Although no Commercial Paper Notes are currently outstanding, the authorization remains in full force and effect and Metropolitan may issue Commercial Paper Notes from time to time. In addition, Metropolitan obtained a \$20 million California Safe Drinking Water Revolving Fund Loan in 2003 at an interest rate of 2.39 percent per annum to reimburse construction costs for oxidation retrofit facilities at the Henry J. Mills Treatment Plant in Riverside County. The loan will be repaid over 20 years, with semiannual payments of \$632,000 through January 1, 2024. The loan payment obligation is subordinate to the Parity Bonds and Parity Obligations. As of August 1, 2012, the principal balance outstanding was \$13.1 million.

General Obligation Bonds

As of August 1, 2012, \$196,545,000 aggregate principal amount of general obligation bonds payable from ad valorem property taxes were outstanding. *Ad valorem* taxes levied by Metropolitan must be applied solely to the payment of general obligation bonds and other voter-approved indebtedness. Metropolitan's revenue bonds are not payable from the levy of *ad valorem* property taxes.

<u>General Obligation Bonds</u>	<u>Amount Issued</u> ⁽¹⁾	<u>Principal Outstanding</u>
Waterworks General Obligation Refunding Bonds, 2004 Series A	\$ 68,345,000	\$ 49,910,000
Waterworks General Obligation Refunding Bonds, 2005 Series A	64,705,000	63,640,000
Waterworks General Obligation Refunding Bonds, 2009 Series A	45,515,000	43,510,000
Waterworks General Obligation Refunding Bonds, 2010 Series A	<u>39,485,000</u>	<u>39,485,000</u>
Total	<u>\$397,100,000</u> <u>218,050,000</u>	<u>\$196,545,000</u>

Source: Metropolitan.

- (1) Voters authorized Metropolitan to issue \$850,000,000 of Waterworks General Obligation Bonds, Election 1966, in multiple series, in a special election held on June 7, 1966. This authorization has been fully utilized. This table lists bonds that refunded such Waterworks General Obligation Bonds, Election 1966.

State Water Contract Obligations

General. On November 4, 1960, Metropolitan entered into its State Water Contract with DWR, under which Metropolitan receives an entitlement to water service from the State Water Project. Subsequently, other public agencies also entered into water supply contracts with DWR, all of which were patterned after Metropolitan's State Water Contract. Metropolitan's State Water Contract accounts for nearly one-half of the total entitlement for State Water Project water contracted for by all contractors.

The State Water Contract will remain in effect until 2035 or until all DWR bonds issued to finance construction of project facilities are repaid, whichever is longer. At the expiration of the State Water Contract, Metropolitan has the option to continue service under substantially the same terms and conditions. Metropolitan presently intends to exercise this option to continue service to at least 2052. As of August 1, 2012, the latest maturity of outstanding DWR bonds issued for such purpose was December 1, 2035.

Under the State Water Contract, Metropolitan is obligated to pay allocable portions of the cost of construction of the system and ongoing operating and maintenance costs through at least 2035, regardless of quantities of water available from the project. Other payments are based on deliveries requested and actual deliveries received, costs of power required for actual deliveries of water, and offsets for credits received. Metropolitan's payment obligation for the State Water Project for the fiscal year ended June 30, 2012 was \$479.8 million, which amount reflects prior year's credits of \$59.0 million. For the fiscal year ended June 30, 2012, Metropolitan's payment obligations under the State Water Contract were approximately 40 percent of Metropolitan's total annual expenditures. A portion of Metropolitan's annual property tax levy is for payment of State Water Contract capital charges. See Note 9(a) to Metropolitan's audited financial statements in Appendix B for an estimate of Metropolitan's payment obligations under the State Water Contract. Also see "POWER SOURCES AND COSTS" in this Appendix A for a description of current and future costs for electric power required to operate State Water Project pumping systems and a description of litigation involving the federal relicensing of the Hyatt-Thermalito hydroelectric generating facilities at Lake Oroville.

On April 25, 2005, a group of fourteen State Water Project contractors filed suit against DWR challenging the manner in which it allocates certain energy costs and revenues related to operation of the State Water Project. Among other things, these contractors alleged that DWR has been and is administering certain provisions of State Water Contract incorrectly, depriving them of "all benefits" derived from the sale or other disposal of electrical energy generated at the Hyatt-Thermalito power facility. The plaintiffs did not allege specific amounts for damages; however, success by plaintiffs could have resulted in shifting tens of millions of dollars in annual costs from State Water Project contractors located north of the Tehachapi Mountains to State Water Project contractors located south of the Tehachapi Mountains and on the Central Coast, including Metropolitan. Metropolitan and twelve other State Water Project contractors intervened in the litigation. After a trial limited to contract interpretation issues, on September 14, 2009, the court rejected all of the plaintiffs' assertions and on April 19, 2010, the court dismissed all remaining claims without leave to amend. The court entered its final statement of decision and final judgment in favor of defendants on May 3, 2010. On May 25, 2010, the plaintiffs filed a motion for a new trial, which was denied. The plaintiffs filed a notice of appeal on July 1, 2010. No date for oral argument has been set by the court.

The State Water Contract requires that in the event that Metropolitan fails or is unable to raise sufficient funds by other means, Metropolitan must levy upon all property within its boundaries not exempt from taxation a tax or assessment sufficient to provide for all payments under the State Water Contract.

Currently a portion of the capital costs under the State Water Contract are paid from ad valorem taxes levied by Metropolitan. In the opinion of Metropolitan's General Counsel, a tax increase to provide for additional payments under the State Water Contract would be within the exemption permitted under Article XIII A of the State Constitution as a tax to pay pre-1978 voter approved indebtedness.

Metropolitan capitalizes its share of system construction costs as participation rights in State Water Project facilities as such costs are billed by DWR. Unamortized participation rights essentially represent a prepayment for future water deliveries through the State Water Project system. Metropolitan's share of system operating and maintenance costs are annually expensed.

Metropolitan has entered into amendments to the State Water Contract that represent additional long-term obligations, as described below.

Devil Canyon-Castaic Contract. On June 23, 1972, Metropolitan and five other southern California public agencies entered into a contract (the "Devil Canyon-Castaic Contract") with DWR for the financing and construction of the Devil Canyon and Castaic power recovery facilities, located on the aqueduct system of the State Water Project. Under this contract, DWR agreed to build the Devil Canyon and Castaic facilities, using the proceeds of revenue bonds issued by DWR under the State Central Valley Project Act. DWR also agreed to use and apply the power made available by the construction and operation of such facilities to deliver water to Metropolitan and the other contracting agencies. Metropolitan, in turn, agreed to pay to DWR 88.1 percent of the debt service on the revenue bonds issued by DWR. For calendar year 2011, this represents a payment of \$7.6 million. In addition, Metropolitan agreed to pay 78.5 percent of the operation and maintenance expenses of the Devil Canyon facilities and 96 percent of the operation and maintenance expenses of the Castaic facilities. Metropolitan's obligations under the Devil Canyon-Castaic Contract continue until the bonds are fully retired in 2022 even if DWR is unable to operate the facilities or deliver power from these facilities.

Off-Aqueduct Power Facilities. In addition to system "on-aqueduct" power facilities costs, DWR has, either on its own or by joint venture, financed certain off-aqueduct power facilities. The power generated is utilized by the system for water transportation and other State Water Project purposes. Power generated in excess of system needs is marketed to various utilities and the California power exchange market. Metropolitan is entitled to a proportionate share of the revenues resulting from sales of excess power. By virtue of a 1982 amendment to the State Water Contract and the other water supply contracts, Metropolitan and the other water contractors are responsible for paying the capital and operating costs of the off-aqueduct power facilities regardless of the amount of power generated. Other costs of Metropolitan in relation to the State Water Project and the State Water Contract may increase as a result of restructuring of California's electric utility industry and new Federal Energy Regulatory Commission regulations.

East Branch Enlargement Amendment. In 1986, Metropolitan's State Water Contract and the water supply contracts of certain other State Water Project contractors were amended for the purpose, among others, of financing the enlargement of the East Branch of the California Aqueduct. Under the amendment, enlargement of the East Branch can be initiated either at Metropolitan's request or by DWR finding that enlargement is needed to meet demands. Metropolitan, the other State Water Contractors on the East Branch, and DWR are currently in discussions on the timetable and plan for future East Branch enlargement actions.

The amendment establishes a separate subcategory of the Transportation Charge under the State Water Contract for the East Branch Enlargement and provides for the payment of costs associated with financing and operating the East Branch Enlargement. Under the amendment, the annual financing costs for such facilities financed by bonds issued by DWR are allocated among the participating contractors based upon the delivery capacity increase allocable to each participating contractor. Such costs include, but are not limited to, debt service, including coverage requirements, deposits to reserves, and certain operation and maintenance expenses, less any credits, interest earnings or other moneys received by DWR in connection with this facility.

If any participating contractor defaults on payment of its allocable charges under the amendment, among other things, the non-defaulting participating contractors may assume responsibility for such charges and receive delivery capability that would otherwise be available to the defaulting participating contractor in proportion to the non-defaulting contractor's participation in the East Branch Enlargement. If participating contractors fail to cure the default, Metropolitan will, in exchange for the delivery capability that would otherwise be available to the defaulting participating contractor, assume responsibility for the capital charges of the defaulting participating contractor.

Water System Revenue Bond Amendment. In 1987, the State Water Contract and other water supply contracts were amended for the purpose of financing State Water Project facilities through revenue bonds. This amendment establishes a separate subcategory of the Delta Water Charge and the Transportation Charge for projects financed with DWR water system revenue bonds. This subcategory of charge provides the revenues required to pay the annual financing costs of the bonds and consists of two elements. The first element is an annual charge for repayment of capital costs of certain revenue bond financed water system facilities under the existing water supply contract procedures. The second element is a water system revenue bond surcharge to pay the difference between the total annual charges under the first element and the annual financing costs, including coverage and reserves, of DWR's water system revenue bonds.

If any contractor defaults on payment of its allocable charges under this amendment, DWR is required to allocate a portion of the default to each of the nondefaulting contractors, subject to certain limitations, including a provision that no nondefaulting contractor may be charged more than 125 percent of the amount of its annual payment in the absence of any such default. Under certain circumstances, the nondefaulting contractors would be entitled to receive an allocation of the water supply of the defaulting contractor.

The following table sets forth Metropolitan's projected costs of State Water Project water, based upon DWR's Annual Billing to Metropolitan for calendar year 2012 and projections based on Metropolitan's adopted biennial budget for fiscal years 2012-13 and 2013-14. The projections include projected costs to complete the planning phase of the BDCP. If a Bay-Delta improvement alternative is identified and funding is approved, construction may commence in 2016. See "METROPOLITAN'S WATER SUPPLY—State Water Project—*Bay-Delta Regulatory and Planning Activities.*"

**PROJECTED COSTS OF METROPOLITAN
FOR STATE WATER PROJECT WATER⁽¹⁾
(Dollars in Millions)**

Year Ending June 30	Capital Costs	Minimum OMP&R ⁽²⁾	Power Costs ⁽³⁾	Refunds & Credits	Total ⁽⁴⁾	— — —
2013	\$179.6	\$179.5	\$279.6	\$(45.2)	\$593.4	—
2014	185.3	184.6	238.1	(44.1)	563.8	—
2015	202.8	186.1	242.6	(35.3)	596.1	—
2016	216.5	189.6	234.9	(35.3)	605.5	—
2017	222.3	191.1	247.3	(35.3)	625.3	—

(1)

Projections are based upon DWR's Annual Billing to Metropolitan for 2012 and attachments, (dated July 1, 2011, 2011) and Metropolitan ~~water purchase estimates's adopted biennial budget for fiscal years 2012-13 and 2013-14.~~ All costs are adjusted from calendar year to fiscal year periods ending June 30. The total charges shown above differ from those shown in Note 9 of Metropolitan's audited financial statements (for the fiscal years ended June 30, 2011 and June 30, 2010) in Appendix B due to the inclusion above of allowances for inflation and anticipated construction of additional State Water Project facilities. The projections above also include State Water Project refunds and credits. See "POWER SOURCES AND COSTS—State Water Project."

- (2) Minimum Operations, Maintenance, Power and Replacement ("OMP&R") represents costs which are fixed and do not vary with the amount of water delivered.
- (3) Assumptions for water deliveries through the California Aqueduct (not including SBVMWD and Desert Water/CVWD transfers and exchanges) into Metropolitan's service area and to storage programs are as follows: 1.14 million acre-feet for fiscal year 2012-13, 1.03 million acre-feet for fiscal year 2013-14, 1.03 million acre-feet for fiscal year 2014-15, 0.96 million acre-feet for fiscal year 2015-16 and 0.96 million acre-feet for fiscal year 2016-17. Availability of State Water Project supplies vary and deliveries may include transfers and storage. All deliveries are within maximum contract amount and are based upon availability, as determined by hydrology, water quality and wildlife conditions. See "METROPOLITAN'S WATER SUPPLY—State Water Project—Endangered Species Act Considerations" in this Appendix A.
- (4) Annual totals include BDCP related costs for the fiscal years ended June 30, 2013 through June 30, 2017 of \$11.6 million, \$5.5 million, \$7.0 million, \$8.2 million and \$15.6 million, respectively. BDCP related costs are included in Capital Costs and Minimum OMP&R costs.

Other Long-Term Commitments

Metropolitan also has various ongoing fixed annual obligations under its contract with the United States for power from the Hoover Power Plant. Under the terms of the Hoover Power Plant contract, Metropolitan purchases energy to pump water through the Colorado River Aqueduct. In fiscal year 2011-12 Metropolitan paid approximately \$19.9 million under this contract. Payments made under the Hoover Power Plant contract are treated as Operation and Maintenance Expenditures. See "POWER SOURCES AND COSTS—Colorado River Aqueduct" in this Appendix A.

Defined Benefit Pension Plan

Metropolitan is a member of the California Public Employees' Retirement System ("PERS"), a multiple-employer pension system that provides a contributory defined-benefit pension for substantially all Metropolitan employees. PERS provides retirement and disability benefits, annual cost-of-living adjustments and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State. PERS is a contributory plan deriving funds from employee contributions as well as from employer contributions and earnings from investments. A menu of benefit provisions is established by State statutes within the Public Employees' Retirement Law. Metropolitan selects optional benefit provisions from the benefit menu by contract with PERS.

Metropolitan makes biweekly contributions to PERS based on actuarially determined employer contribution rates. The actuarial methods and assumptions used are those adopted by the PERS Board of Administration. Employees are required to contribute seven percent of their earnings (excluding overtime pay) to PERS. Pursuant to current memoranda of understanding, Metropolitan contributes the requisite seven

percent contribution for all employees represented by the Management and Professional Employees Association, the Association of Confidential Employees, Supervisors and Professional Personnel Association and AFSCME Local 1902. Metropolitan also contributes the entire seven percent on behalf of the unrepresented employees. In addition, Metropolitan is required to contribute the actuarially determined remaining amounts necessary to fund the benefits for its members.

The contribution requirements of the plan members are established by State statute and the employer contribution rate is established and may be amended by PERS. For fiscal year 2011-12, Metropolitan contributed 14.48 percent of annual covered payroll. In addition, since July 1, 2001, Metropolitan has paid the 7 percent employees' share of the PERS contribution. The fiscal year 2011-12 annual pension cost was \$40.3 million, of which \$13.2 million was for Metropolitan's pick-up of the employees' 7 percent share. For fiscal year 2012-13, Metropolitan is required to contribute 15.0 percent of annual covered payroll, in addition to member contributions paid by Metropolitan. The fiscal year 2011-12 contribution requirement is based on the June 30, 2009 valuation report and the fiscal year 2012-13 contribution requirement is based on the June 30, 2010 valuation report. The June 30, 2010 actuarial valuation report includes a projected employer contribution rate for fiscal year 2013-14 of 15.4 percent of annual covered payroll, based on PERS' projected investment return for fiscal year 2010-11 of 20.0 percent, and a projected employer contribution rate for fiscal year 2014-15 of 15.7 percent of annual covered payroll, based on PERS' projected investment return for fiscal year 2011-12 of 7.75 percent. As of June 30, 2010, the date of the most recent actuarial valuation report available from PERS, the actuarial and market values of assets in Metropolitan's pension plan were approximately \$1.351 billion and \$1.058 billion, respectively. The plan had an unfunded liability of approximately \$212 million (86.4 percent funded based on actuarial value of assets and 67.7 percent funded based on market value), reflecting the impact of financial market conditions as of that date, which resulted in decreased valuation of PERS assets. This compares to the plan's unfunded liability of \$191 million as of the June 30, 2009 actuarial valuation (87.1 percent funded based on actuarial value of assets and 63.6 percent funded based on market value), \$102 million as of the June 30, 2008 actuarial valuation (92.3 percent funded based on actuarial value of assets and 94.1 percent funded based on market value), and \$95 million as of the June 30, 2007 actuarial valuation (92.4 percent funded based on actuarial value of assets and 107 percent funded based on market value). The pension plan had excess assets of \$95 million as of the June 30, 2002 actuarial valuation. The increase in unfunded liability is due to the draw-down of excess assets relating to the employer pick-up of the employees' 7 percent share and prior asset losses in PERS investments, and the recognition of gains and losses on an actuarial basis over a "smoothing" period. The actuarial value of PERS assets since fiscal year 2003-04 is based on a policy to smooth the market value of investments over a fifteen-year period to reduce the volatility of employers' future contributions and stabilize pension costs. However, in June 2009, the PERS Board adopted temporary modifications to the asset smoothing method in order to phase in over a three year period the impact of the 24 percent investment loss experienced in fiscal year 2008-09. In its June 2010 valuation report, PERS continued the effects of the temporary modification. The phase-in provides short-term relief to local government employers and is designed to strengthen the long-term financial health of the pension funds. For more information on the plan, see Appendix B - "THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA INDEPENDENT AUDITOR'S REPORT AND FINANCIAL STATEMENTS AS OF FISCAL YEARS ENDED JUNE 30, 2011 AND JUNE 30, 2010 AND BALANCE SHEETS AND STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS AS OF AND FOR THE NINE MONTHS ENDED MARCH 31, 2012 AND MARCH 31, 2011 (UNAUDITED)."

Metropolitan provides post-employment medical insurance to retirees. Metropolitan currently pays the post-employment medical insurance premiums to PERS. Metropolitan funds such benefits on a pay-as-you-go basis. Payments for this benefit were \$12.8 million in fiscal year 2011-12 and are estimated to be \$14.8 million in fiscal year 2012-13. Under Governmental Accounting Standards Board Statement No. 45, Accounting and Financial Reporting by Employers for Postemployment Benefits Other Than Pensions, Metropolitan was required to account for and report the outstanding obligations and commitments related to such benefits, commonly referred to as other postemployment benefits ("OPEB"), on an accrual basis for the

fiscal year ended June 30, 2008. Metropolitan began accounting for and reporting its OPEB obligations beginning with its financial statements for the fiscal year ended June 30, 2006.

Metropolitan's annual required OPEB contribution was \$46.3 million in fiscal year 2011-12. Pay-as-you-go contributions were \$12.8 million in fiscal year 2011-12, which represent 27.6 percent of the annual required contribution. The required contribution was based on a January 1, 2011 actuarial valuation using the entry-age normal actuarial cost method with contributions determined as a level percent of pay. The actuarial assumptions included (a) a 4.5 percent investment rate of return, (b) a general inflation component of 3.0 percent and (c) increases to basic medical premiums of 9.0 percent for non-Medicare plans for 2013, grading down to 5.0 percent for 2021 and thereafter. As of January 1, 2011, the date of the actuarial report, the unfunded OPEB liability was estimated to be \$545 million. The June 30, 2007 unfunded actuarial accrued liability is amortized over a fixed 30-year period starting with fiscal year 2007-~~08-08 and ending in 2037.~~ Assumption changes are amortized over a fixed 20-year period ~~starting with fiscal year 2009-10.~~ Actuarial gains and losses are amortized over a rolling 15-year period. Metropolitan intends to begin OPEB funding above annual pay-as-you-go amounts beginning in fiscal year 2012-13 at \$5.0 million, increasing by \$5.0 million per fiscal year to an annual funding amount of \$25.0 million, beginning in fiscal year 2016-17.

HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES

The table below, for fiscal years 2008-09 through 2011-12, provides a summary of revenues and expenditures of Metropolitan prepared on a cash basis, which conforms to the Revenue Bond Resolution provisions regarding rates and additional Bonds (as defined in the Master Resolution) and Parity Obligations (as defined in the Master Resolution). See "METROPOLITAN EXPENDITURES—Limitations on Additional Revenue Bonds" in this Appendix A. Under cash basis accounting, water sales revenues are recorded when received (two months after billed) and expenses when paid (approximately one month after invoiced). The financial projections for fiscal years 2012-13 through 2016-17, are prepared on a modified accrual basis. This is consistent with the adopted biennial budget for fiscal years 2012-13 and 2013-14, which was prepared on a modified accrual basis instead of a cash basis. The table does not reflect the accrual basis of accounting, which is used to prepare Metropolitan's annual audited financial statements. The modified accrual basis of accounting varies from the accrual basis of accounting in the following respects: depreciation and amortization will not be recorded and payments of debt service will be recorded when due and payable. Under the modified accrual basis of accounting, revenues are recognized in the fiscal year in which they are earned and expenses are recognized when incurred. Thus water sales revenues are recognized in the month the water is sold and expenses are recognized when goods have been received and services have been rendered. As a result of this change, projected revenues are \$11 million greater in fiscal year 2012-13 and \$17 million greater in fiscal year 2013-14 than under the previous cash basis of accounting. Projections of expenditures are not materially affected by this change. The change to modified accrual accounting is for budgeting purposes and Metropolitan will continue to calculate compliance with its rate covenant, limitations on additional bonds and other financial covenants in the Resolutions in accordance with their terms.

The projections are based on assumptions concerning future events and circumstances that may impact revenues and expenditures and represent management's best estimates of results at this time. See footnotes to the table below entitled "HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" and "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" for relevant assumptions, including projected water sales and average annual increase in the effective water rate, and "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" for a discussion of potential impacts. Some assumptions inevitably will not materialize and unanticipated events and circumstances may occur. Therefore, the actual results achieved during the projection period will vary from the projections and the variations may be material.

In addition to the Parity Bonds currently outstanding and the Bonds described in the ~~Official~~ Offering Statement, Metropolitan anticipates issuing approximately \$930 million aggregate principal amount of debt through fiscal year 2016-17 to finance the CIP. In September 2004 Metropolitan adopted a goal to maintain a minimum fixed charge coverage ratio, measuring total coverage of all fixed obligations (which includes all revenue bond debt service obligations, State Water Contract capital payments paid from current year operations and subordinate obligations) after payment of operating expenditures, of 1.2 times. This goal is subject to change by future action of Metropolitan's Board.

Estimated revenues and expenditures are based on assumptions and estimates used in the adopted biennial budget for fiscal years 2012-13 and 2013-14. In addition, the forecasted revenues and expenditures for fiscal year 2012-13 through fiscal year 2016-17 reflect the issuance of additional bond sales projected over this period. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES—Water Sales Receipts" in this Appendix A.

The projections in the table below assume that water sales will be 1.7 million acre-feet in fiscal year 2012-13, 1.7 million acre-feet in fiscal year 2013-14 and 1.75 million acre-feet in fiscal years 2014-15, 2015-16 and 2016-17, respectively. Rates and charges increased by 7.5 percent, effective January 1, 2012, and will increase by 5.0 percent on January 1, 2013 and 5.0 percent on January 1, 2014. Rates and charges are projected to increase 3.0 percent annually thereafter. Actual rates and charges to be effective in 2015 and thereafter are subject to adoption by Metropolitan's Board. The projections were prepared by Metropolitan and have not been reviewed by independent certified public accountants or any entity other than Metropolitan. Dollar amounts are rounded.

Metropolitan's resource planning projections are developed using a comprehensive analytical process that incorporates demographic growth projections from recognized regional planning entities, historical and projected data acquired through coordination with local agencies, and the use of generally accepted empirical and analytical methodologies. See "METROPOLITAN'S WATER SUPPLY—Integrated Water Resources Plan and"—The Integrated Resources Plan Strategy" in this Appendix A. Metropolitan has conservatively set the water sales projections in the following table which are below its projections for resource planning purposes. Metropolitan estimates that its water sales projections have a seventy percent statistical likelihood of being exceeded, compared to the fifty percent exceedance levels in the projections of water sales used to set prior years' budgets and rates. Nevertheless, Metropolitan's assumptions have been questioned by directors representing SDCWA on Metropolitan's Board. Metropolitan has reviewed SDCWA's concerns and, while recognizing that assumptions may vary, believes that the estimates and assumptions that support Metropolitan's projections are reasonable and the best estimates available at this time, based upon history, recent experience and other factors as described above.

HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES^(a)
(Dollars in Millions)

	-----Actual-----				-----Projected-----				
	2009	2010	2011	2012	2013	2014	2015	2016	2017
Receipts from Water Sales ^(b)	\$988	\$1,011	\$996	\$1,062	\$1,184	\$1,241	\$1,326	\$1,370	\$1,422
Additional Revenue Sources ^(c)	<u>120</u>	<u>135</u>	<u>153</u>	<u>167</u>	<u>174</u>	<u>182</u>	<u>200</u>	<u>210</u>	<u>221</u>
Total Operating Revenues	<u>1,108</u>	<u>1,146</u>	<u>1,149</u>	<u>1,230</u>	<u>1,358</u>	<u>1,423</u>	<u>1,526</u>	<u>1,580</u>	<u>1,643</u>
O&M, CRA Power and Water Transfer Costs ^(d)	(532)	(551)	(531)	(476)	(492)	(503)	(555)	(578)	(602)
Total SWC OMP&R and Power Costs ^(e)	<u>(251)</u>	<u>(274)</u>	<u>(322)</u>	<u>(316)</u>	<u>(425)</u>	<u>(400)</u>	<u>(414)</u>	<u>(414)</u>	<u>(429)</u>
Total Operation and Maintenance	<u>(782)</u>	<u>(825)</u>	<u>(853)</u>	<u>(792)</u>	<u>(917)</u>	<u>(903)</u>	<u>(969)</u>	<u>(992)</u>	<u>(1,031)</u>
Net Operating Revenues	\$ 326	\$ 321	\$ 296	\$ 438	\$ 441	\$520	\$557	\$ 588	\$612
Miscellaneous Revenue ^(f)	20	33	74	56	19	19	19	19	19
Sales of Hydroelectric Power ^(g)	23	19	22	31	24	21	21	25	25
Interest on Investments ^(h)	<u>32</u>	<u>19</u>	<u>17</u>	<u>11</u>	<u>13</u>	<u>13</u>	<u>15</u>	<u>16</u>	<u>17</u>
Adjusted Net Operating Revenues ⁽ⁱ⁾	401	392	409	535 536	497	573	612	648	673
Bonds and Additional Bonds Debt Service ^(j)	(223)	(244)	(277)	(296) 297	(305)	(308)	(316)	(325)	(336)
Subordinate Revenue Obligations ^(k)	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>	<u>(1)</u>
Funds Available from Operations	\$ 177	\$ 147	\$ 131	\$ 238	\$ 191	\$ 264	\$ 295	\$ 322	\$336
Bonds and Additional Bonds Debt Service Coverage ^(l)	1.80	1.61	1.48	1.81	1.63	1.86	1.94	1.99	2.00
Debt Service Coverage on all Obligations ^(m)	1.79	1.60	1.47	1.80	1.62	1.85	1.93	1.99	2.00
Funds Available from Operations	\$ 177	\$ 147	\$ 131	\$ 238	\$ 191	\$ 264	\$ 295	\$ 322	\$336
Other Receipts (Expenditures)	(8)	(5)	(2)	(3)	(8)	(11)	(8)	(9)	(9)
Pay-As-You Go Construction	(31)	(35)	(45)	(45)	(55)	(125)	(125)	(125)	(125)
Water Transfer Capital Costs	(8)	(12)	-0-	-0-	-0-	-0-	-0-	-0-	-0-
Total SWC Capital Costs Paid from Current Year Operations	<u>(86)</u>	<u>(115)</u>	<u>(119)</u>	<u>(112)</u>	<u>(127)</u>	<u>(123)</u>	<u>(145)</u>	<u>(158)</u>	<u>(168)</u>
Remaining Funds Available from Operations	44	(20)	(35)	77	1	5	17	30	34
Fixed Charge Coverage ⁽ⁿ⁾	1.30	1.09	1.03	1.31	1.15	1.33	1.33	1.34	1.33
Tax Receipts	105	97	88	90	83	81	61	56	51
General Obligation Bonds Debt Service	(49)	(48)	(39)	(39)	(40)	(40)	(23)	(23)	(23)
SWC Capital Costs Paid from Taxes	<u>(56)</u>	<u>(49)</u>	<u>(49)</u>	<u>(51)</u>	<u>(43)</u>	<u>(41)</u>	<u>(38)</u>	<u>(33)</u>	<u>(28)</u>
Net Funds Available from Current Year	\$ 44	\$ (20)	\$ (35)	\$ 77	\$ 1	\$ 5	\$ 17	\$ 30	\$ 34

Source: Metropolitan.

(a) Unaudited. Prepared on a cash basis for fiscal years ended June 30, 2009 through fiscal year ending June 30, 2012, and on a modified accrual basis for fiscal years ending June 30, 2013 through June 30, 2017.

(Footnotes continued on next page)

- (b) During the four fiscal years ended June 30, 2009 through June 30, 2012, annual water sales (in acre-feet) were 2.17 million, 1.86 million, 1.63 million and 1.68 million (including 225,000 acre-feet of replenishment sales), respectively. See "METROPOLITAN REVENUES—Water Sales Revenues," table entitled "SUMMARY OF WATER SOLD AND WATER SALES RECEIPTS" in this Appendix A. The water receipts projections are based upon estimated annual water sales (in acre-feet) of 1.7 million in fiscal year 2012-13, 1.7 million in fiscal year 2013-14 and 1.75 million in fiscal years 2014-15, 2015-16 and 2016-17, respectively. Projections reflect Board adopted rate and charge increases of 7.5 percent, which became effective on January 1, 2011, 7.5 percent, which became effective on January 1, 2012, 5.0 percent, effective on January 1, 2013 and 5.0 percent, effective on January 1, 2014. Rates and charges are projected to increase 3.0 percent per fiscal year thereafter, subject to adoption by Metropolitan's Board. See "MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES" below.
- (c) Includes receipts from water standby, readiness-to-serve and capacity charges. The term Operating Revenues excludes ad valorem taxes. See "METROPOLITAN REVENUES — Additional Revenue Components" in this Appendix A.
- (d) Water Transfer Costs are included in Operation and Maintenance Expenditures for purposes of calculating the debt service coverage on all Obligations.
- (e) Includes on and off aqueduct power and operation, maintenance, power and replacement costs payable under the State Water Contract. See "METROPOLITAN EXPENDITURES—State Water Contract Obligations" in this Appendix A.
- (f) Includes lease and rental net proceeds, net proceeds from sale of surplus property and federal interest subsidy payments for Build America Bonds of \$6.6 million in fiscal year 2009-10, \$3.6 million in fiscal year 2010-11, \$6.6 million in fiscal year 2011-12 and \$13 million in fiscal year 2012-13 through fiscal year 2016-17. Includes in fiscal year 2010-11, \$8 million from surplus property sales and a \$28.2 million capital reimbursement received from the Calleguas Municipal Water District in fiscal year 2010-11 related to termination of the Las Posas water storage program. See "REGIONAL WATER RESOURCES—Local Water Supplies—Groundwater Storage Programs." Also includes in fiscal year 2011-12 \$27.5 million from CVWD for delivery of 105,000 acre-feet under an exchange agreement between Metropolitan and CVWD. See "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct—Quantification Settlement Agreement."
- (g) Includes Colorado River Aqueduct power sales.
- (h) Does not include interest applicable to Bond Construction Funds, the Excess Earnings Funds, other trust funds and the Deferred Compensation Trust Fund.
- (i) Adjusted Net Operating Revenues is the sum of all available revenues that the revenue bond resolutions specify may be considered by Metropolitan in setting rates and issuing additional Bonds and Parity Obligations.
- (j) Includes debt service on outstanding Bonds, the parity lien State Revolving Fund Loan which was repaid on July 1, 2011 and additional Bonds (projected). Assumes the issuance of additional Bonds as follows: \$180 million in fiscal year 2012-13, \$180 million in fiscal year 2013-14, \$200 million in fiscal year 2014-15, \$180 million in fiscal year 2015-16 and \$190 million in fiscal year 2016-17. See "OPERATING REVENUES AND DEBT SERVICE—Anticipated Financings" in the [Official Offering Statement](#).
- (k) Consisting of subordinate lien California Safe Drinking Water Revolving Fund Loan debt service. See "METROPOLITAN EXPENDITURES—Subordinate Revenue Obligations" in this Appendix A.
- (l) Adjusted Net Operating Revenues divided by the sum of debt service on outstanding Bonds, the parity lien State Revolving Fund Loan which was repaid on July 1, 2011 and additional Bonds (projected).
- (m) Adjusted Net Operating Revenues, divided by the sum of debt service on outstanding Bonds, the parity lien State Revolving Fund Loan which was repaid on July 1, 2011, the subordinate lien California Safe Drinking Water Revolving Fund Loan and additional Bonds (projected). See "METROPOLITAN EXPENDITURES—Subordinate Revenue Obligations" in this Appendix A.
- (n) Adjusted Net Operating Revenues, divided by the sum of State Water Contract capital costs paid from current year operations and debt service on outstanding Bonds, the parity lien State Revolving Fund Loan which was repaid on July 1, 2011, the subordinate lien California Safe Drinking Water Revolving Fund Loan, and additional Bonds (projected).

MANAGEMENT'S DISCUSSION OF HISTORICAL AND PROJECTED REVENUES AND EXPENDITURES

Water Sales Receipts

Metropolitan relies on receipts from water sales for about 75 to 80 percent of its total revenues. Metropolitan's Board has adopted annual increases in water rates each year beginning with the rates effective January 1, 2004. See "METROPOLITAN REVENUES—Rate Structure" and "—Classes of Water Service" in this Appendix A. Effective January 1, 2009, base water rates and charges increased by 9.8 percent plus a \$25 per acre-foot water supply surcharge. The combined impact was an increase of approximately 14.3 percent. Water rates and charges increased an average of 19.7 percent effective September 1, 2009, and the water supply surcharge was replaced by a \$69 per acre-foot Delta Supply Surcharge intended to recover the costs of additional water transfer purchases to augment State Water Project supplies and to be reduced as interim Delta improvements ease pumping restrictions, resulting in lower costs for additional supplies. See "METROPOLITAN'S WATER SUPPLY—State Water Project" and "—Water Transfer, Storage and Exchange Programs" in this Appendix A. On April 14, 2009, Metropolitan's Board directed staff to evaluate historical cost-of-service methodology with the intent to ensure that all rates and charges recover the full cost of service effective January 1, 2011. On April 13, 2010, Metropolitan's Board adopted a Delta Supply Surcharge of \$51 and \$58 per acre-foot, effective January 1, 2011 and January 1, 2012, respectively, with corresponding base water rate increases of 7.5 percent. The Delta Supply Surcharge is zero for calendar years 2013 and 2014. On April 10, 2012, Metropolitan's Board adopted a 5.0 percent rate and charge

increase effective January 1, 2013 and a 5.0 percent increase effective January 1, 2014. Increases in rates and charges reflect increasing operations and maintenance costs, including higher treatment costs, financing requirements of the approximately \$1.45 billion five-year CIP (covering the years 2013 to 2017), increasing State Water Project costs, and reduced water sales.

Water sales forecasts in the table above are: 1.7 million acre-feet in fiscal year 2012-13, 1.7 million acre-feet in fiscal year 2013-14 and 1.75 million acre-feet in fiscal years 2014-15 through 2016-17. For purposes of comparison, Metropolitan's water sales were approximately 2.17 million acre-feet as recently as fiscal year 2008-09, before Metropolitan implemented its Water Supply Allocation Plan on July 1, 2009.

These financial projections reflect the Board's actions to increase water rates and charges by 7.5 percent, effective January 1, 2011, 7.5 percent, effective January 1, 2012, 5.0 percent, effective January 1, 2013 and 5.0 percent, effective January 1, 2014. Rates are projected to increase 3.0 percent per year thereafter. Actual rates and charges to be effective in 2015 and thereafter are subject to adoption by Metropolitan's Board. Metropolitan is required to fix rates and charges estimated to provide operating revenues which, together with other available revenues, are sufficient to pay Metropolitan's operating expenses and provide for payment of the interest and principal of its bonds and other costs.

Metropolitan has funded a Water Treatment Surcharge Stabilization Fund and a Water Rate Stabilization Fund with a portion of the water revenues collected. The Board's stated policy is to use moneys in these funds to mitigate the need to increase water rates as a result of annual variability in water sales. Since fiscal year 2009-10, there has been no balance in the Water Treatment Surcharge Stabilization Fund. The balance in the Water Rate Stabilization Fund was \$78.4 million in fiscal year 2009-10, \$42.6 million in fiscal year 2010-11 and \$127.4 million in fiscal year 2011-12. The fiscal year 2011-12 balance includes \$50 million held in reserves pursuant to the exchange contract between Metropolitan and SDCWA due to SDCWA's litigation challenging Metropolitan's rate structure (see "METROPOLITAN'S WATER SUPPLY—Colorado River Aqueduct—Sale of Water by the Imperial Irrigation District to San Diego County Water Authority"). This reserve increased by \$37 million to \$50 million at the end of fiscal year 2011-12.

The Long-Range Finance Plan adopted by the Board on March 9, 1999 provides for a minimum/maximum reserve policy based on Metropolitan's water sales during wet periods. Funds representing the minimum reserve level are held in the Revenue Remainder Fund, and any funds in excess of the minimum reserve level (up to the maximum reserve level) are held in the Water Rate Stabilization Fund. The maximum reserve level on June 30, 2012 was calculated to be \$458 million and the minimum reserve requirement as of June 30, 2012, was \$190 million. See "METROPOLITAN REVENUES—Rate Structure" and "—Litigation Challenging Rate Structure" in this Appendix A. The actual fund balances in the Water Rate Stabilization Fund, the Revenue Remainder Fund and the Water Stewardship Fund on June 30, 2012 totaled \$332 million, including \$50 million to be set aside for the SDCWA rate structure litigation. These unrestricted reserve balances include amounts held as collateral, from time to time, by Metropolitan's swap counterparties. See "METROPOLITAN REVENUES—Financial Reserve Policy" and "CAPITAL INVESTMENT PLAN—Capital Investment Plan Financing" in this Appendix A.

Water Sales Projections

Metropolitan's water sales projections are the result of a comprehensive retail demand, conservation, and local supply estimation process, including supply projections from member agencies and other water providers within Metropolitan's service area. Retail demands for water are estimated with a model driven by projections of relevant demographics provided by SCAG and SANDAG. Retail demands are adjusted downward for conservation savings and local supplies, with the remainder being the estimated demand for Metropolitan supplies. Conservation savings estimates include all conservation programs in place to date as well as estimates of future conservation program goals that will result from regional 20 percent reductions by 2020 conservation savings. See "METROPOLITAN'S WATER SUPPLY—Water Conservation." Local supplies include water produced by local agencies from various sources including but not limited to groundwater, surface water, locally-owned imported supplies, and recycled water (see "REGIONAL WATER RESOURCES").

The water sales projections are used to determine water rates and charges. In adopting the budget and rates and charges for each fiscal year, Metropolitan's board reviews the anticipated revenue requirements and projected water sales to determine the rates necessary to produce substantially the revenues to be derived from water sales during the fiscal year. Metropolitan sets rates and charges estimated to provide operating revenues sufficient, with other sources of funds, to provide for payment of its expenditures. See "—Water Sales Receipts" above.

Actual water sales are likely to vary from projections. Over the ten-year period from fiscal-year 2002-03 through 2011-12, actual water sales exceeded budgeted sales for the fiscal year in five fiscal years, with the greatest positive variance in fiscal year 2005-06 when actual sales of 2,152,818 acre-feet were 114 percent of budgeted sales (1,895,730 acre-feet). Actual sales were less than budgeted sales in five fiscal years, with the greatest negative variance in fiscal year 2010-11 when actual sales of 1,632,277 acre-feet were 85 percent of budgeted sales (1,927,875 acre-feet). Over the ten fiscal years from 2002-03 through 2011-12, average actual sales were 100 percent of average budgeted sales. In fiscal year 2011-12, actual sales were 1,676,855 acre-feet (including 225,000 acre-feet of replenishment sales), representing 93 percent of sales of 1,800,000 acre-feet in the revised budget. If actual sales exceed projections, the revenues from water sales during the fiscal year will exceed budget, resulting in an increase in financial reserves. See "METROPOLITAN REVENUES—Financial Reserve Policy." If actual sales are less than projections, Metropolitan uses various tools to manage reductions in revenues, such as reducing expenditures below budgeted levels and drawing on reserves. Metropolitan considers actual sales, revenues and expenditures, and financial reserve balances in setting rates for future fiscal years.

Operation and Maintenance Expenditures

Operation and maintenance expenditures in fiscal year 2011-12 were \$792 million, which represented approximately 66 percent of total costs. These expenditures include the costs of labor, electrical power, materials and supplies of both Metropolitan and its contractual share of the State Water Project. The cost of power for pumping water through the aqueducts is a major component of this category of expenditures.

The 2012-13 budgeted operation and maintenance expenditures are \$917 million. Metropolitan's Board adopted a budget benchmark in September 2004 to limit the annual increase in departmental operations and maintenance budgets to no more than the five-year rolling average change in the Los Angeles/Orange/Riverside Counties consumer price index. The budgeted fiscal year 2012-13 departmental expenditures of \$360 million is approximately 3.7 percent and 6.1 percent higher than expenditures in the fiscal years ending in 2012 and 2011, respectively.

POWER SOURCES AND COSTS

General

Current and future costs for electric power required for operating the pumping systems of the Colorado River Aqueduct and the State Water Project are a substantial part of Metropolitan's overall expenses. Expenditures for electric power for the Colorado River Aqueduct (not including credits from power sales and related revenues) for the fiscal years June 30, 2010, June 30, 2011 and June 30, 2012 were approximately \$42.4 million, \$46.9 million and \$30.0 million, respectively.

Expenditures for electric power and transmission service for the State Water Project were \$80.2 million (not including credits for prior period adjustments) for the fiscal year ended June 30, 2000, but increased to \$105.2 million for the fiscal year ended June 30, 2001 and \$187 million for the fiscal year ended June 30, 2002. As the market prices for energy declined from the crisis levels in 2000 and 2001, State Water Project power costs decreased to \$136.3 million for the fiscal year ended June 30, 2003. Expenditures for the fiscal years ended June 30, 2004, June 30, 2005 and June 30, 2006 were approximately \$182.3 million, \$176.8 million and \$201.4 million, respectively, showing the effect of more State Water Project deliveries. Expenditures for the fiscal years ended June 30, 2010, June 30, 2011 and June 30, 2012 were approximately \$156.1 million, \$189.8 million and \$214.1 million respectively.

Given the continuing uncertainty surrounding the electricity markets in California and in the electric industry in general, Metropolitan is unable to give any assurance with respect to the magnitude of its power costs.

Colorado River Aqueduct

Generally 55 to 70 percent of the annual power requirements for pumping at full capacity (1.25 million acre-feet of Colorado River water) in Metropolitan's Colorado River Aqueduct are secured through long-term contracts with the United States for energy generated from facilities located on the Colorado River (Hoover Power Plant and Parker Power Plant) and Edison. These contracts provide Metropolitan with reliable and economical power resources to pump Colorado River water to Metropolitan's service area.

On December 20, 2011, President Obama signed into law the Hoover Power Allocation Act of 2011 (H.R. 470). This new law requires the Western Area Power Administration to renew existing contracts for electric energy generated at the Hoover Power Plant for an additional 50 years through September 2067. The contractors will retain 95 percent of their existing power rights. The law will allow Metropolitan to continue to receive a significant amount of power from the Hoover power plant after the current contract expires in 2017.

The remaining approximately 30 to 45 percent of annual pumping power requirements for full capacity pumping on the Colorado River Aqueduct is obtained through energy purchases from municipal and investor-owned utilities or power marketers. Gross diversions of water from Lake Havasu for the fiscal years ended June 30, 2011 and June 30, 2012 were approximately 1,005,000 acre-feet and 724,413 acre-feet, respectively, including Metropolitan's basic apportionment of Colorado River water and supplies from water transfer and groundwater storage programs.

The Metropolitan-Edison 1987 Service and Interchange Agreement includes provisions for the sharing of the benefits realized by the integrated operation of Edison's and Metropolitan's electric systems. Under this agreement, with a prior year pumping operation of 1 million acre-feet, Edison provides Metropolitan additional energy (benefit energy) sufficient to pump approximately 140,000 acre-feet annually. As the amount of pumping is increased, the amount of benefit energy provided by Edison is reduced.

Under maximum pumping conditions, Metropolitan can require up to one million megawatt-hours per year in excess of the base resources available to Metropolitan from the Hoover Power Plant, the Parker Power Plant, and Edison benefit energy. Metropolitan is a member of the Western Systems Power Pool ("WSPP"), and utilizes its industry standard form contract to make wholesale power purchases at market cost. Metropolitan acquires the majority of its supplemental power from WSPP members. In calendar years 2009 and 2010, Metropolitan purchased 675,000 megawatt-hours and 755,000 megawatt-hours, respectively, of energy above its base power resources. In calendar year 2011, Metropolitan pumped approximately 705,000 acre-feet of its Colorado River water and additional supplies from other Colorado River sources and purchased about 100,000 megawatt-hours of additional energy supplies above its base power resources.

State Water Project

The State Water Project's power requirements are met from a diverse mix of resources, including State-owned hydroelectric generating facilities. DWR has long-term contracts with Nevada Energy (coal-fired energy), Morgan Stanley (unspecified energy sources), Metropolitan (hydropower), Kern River Conservation District (hydropower) and the Northern California Power Agency (natural gas generation). The remainder of its power needs are met by short-term purchases. Metropolitan pays approximately 70 percent of State Water Project power costs.

DWR is seeking renewal of the license issued by the Federal Energy Regulatory Commission ("FERC") for the State Water Project's Hyatt-Thermalito hydroelectric generating facilities at Lake Oroville. A Settlement Agreement containing recommended conditions for the new license was submitted to FERC in March 2006. That agreement was signed by over 50 stakeholders, including Metropolitan and other State Water Project contractors. With only a few minor modifications, FERC staff recommended that the Settlement Agreement be adopted as the condition for the new license. DWR issued a Final EIR for the relicensing project on July 22, 2008. On August 21, 2008, Butte County and Plumas County filed separate lawsuits against DWR challenging the adequacy of the Final EIR. This lawsuit also named all of the signatories to the Settlement Agreement as "real parties in interest," since they could be adversely affected by this litigation. A trial was conducted in late January 2012. No ruling has been issued. Regulatory permits and authorizations are required before the new license can take effect. Chief among these is a biological opinion from the National Marine Fisheries Service setting forth the terms and conditions under which the relicensing project must operate in order to avoid adverse impacts to threatened and endangered species. DWR has filed an application requesting this biological opinion. FERC has issued one-year renewals of the existing license since its initial expiration date on January 31, 2007, and is expected to issue successive one-year renewals until a new license is obtained.

DWR receives transmission service from investor-owned utilities under existing contracts and from the California Independent System Operator, a nonprofit public benefit corporation formed in 1996 pursuant to legislation that restructured and deregulated the electric utility industry in California. The transmission service provider may seek increased transmission rates, subject to the approval of FERC. DWR has the right to contest any such proposed increase. DWR may be subject to increases in the cost of transmission service as new electric grid facilities are constructed.

Energy Management Program

Metropolitan staff completed a comprehensive Energy Management and Reliability Study in late 2009 and Metropolitan's Board adopted energy management policies in August 2010 that provide objectives for future energy-related projects to contain costs and reduce Metropolitan's exposure to energy price volatility, increase operational reliability through renewable energy projects, provide a revenue stream to offset energy costs and move Metropolitan toward energy independence.

Metropolitan's Energy Management Program mandates that Metropolitan design and operate its facilities in the most energy-efficient and cost-effective manner. This program includes: setting design

standards for energy-efficient facilities; taking advantage of available rebates for energy efficiency and energy-saving projects; operating Metropolitan's facilities in the most energy-efficient manner; and continuing to investigate alternative energy sources, such as solar and wind power. Metropolitan has completed energy efficiency assessments at all five of its water treatment plants and is evaluating recommendations for proposed changes. Metropolitan has completed construction of a one-megawatt solar generation facility at the Robert A. Skinner Treatment Plant and is investigating additional solar power generation at other treatment plants and facilities. Metropolitan has begun integrating fuel-efficient hybrid vehicles into its fleet and assessing the use of alternative fuels (biodiesel) for its off-road vehicles and construction equipment. Finally, Metropolitan is assessing the feasibility of expanding its hydroelectric generation capabilities.

In February 2007, the Board authorized Metropolitan's membership in the California Climate Action Registry, a nonprofit voluntary registry for greenhouse gas emissions that was established by the California Legislature in 2000. Metropolitan began annual reporting of its certified baseline greenhouse gas inventory, or carbon footprint, in calendar year 2005 to the California Climate Action Registry. In calendar year 2010, Metropolitan's emissions reporting transitioned from the California Climate Action Registry to The Climate Registry, a nonprofit North American emission registry. Metropolitan also reports required emissions data to the California Air Resources Board ("CARB") under mandatory reporting regulations adopted pursuant to AB 32, California's Global Warming Solutions Act. On December 16, 2010, CARB adopted a regulation for a California cap on greenhouse gas emissions under AB 32, and after additional workshops, public comment and further consideration, approved the regulation on October 20, 2011, with compliance deferred to 2013. Metropolitan does not anticipate it will incur cap and trade allowance obligations in 2013.

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