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INLAND EMPIRE UTILITIES AGENCY

OPERATING AND CAPITAL PROGRAM BUDGET FISCAL YEAR 2006/07

TEN YEAR CAPITAL IMPROVEMENT PLAN

Inland Empire
UTILITIES AGENCY
A Municipal Water District

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Executive Summary

Executive Summary

Introduction

The Inland Empire Utilities Agency (IEUA) is a wholesale distributor of water and recycled water and is also responsible for providing regional wastewater treatment services for a 242-square mile area of western San Bernardino County. Industrial and municipal wastewater is collected through a network of regional wastewater sewer interceptors and two non-reclaimable wastewater sewer pipeline systems; treatment at five regional treatment plants; biosolids management; and other related wastewater utility services. IEUA closely coordinates its water resources management program in the Chino Groundwater Basin with the Chino Basin Watermaster, the San Bernardino County Flood Control District, the Chino Basin Water Conservation District, and local water and sewer retail agencies.

In coordination with its seven wastewater Contracting Agencies, IEUA has developed this Ten-Year Capital Improvement Program (TYCIP) to determine the capital spending requirements needed to meet future wastewater service needs, and coordinate and set priorities for future water supply, recycling, renewable energy, composting, and wastewater capital projects through fiscal year 2014/2015.

Wastewater Facilities Master Plan

In August of 2002, the Regional Sewage Technical and Policy Committees recommended and the IEUA Board of Directors (Board) adopted a Wastewater Facilities Master Plan (WFMP) for ultimate growth (2050) in the service area. IEUA's goal for the Master Plan was to produce a single, comprehensive document that would coordinate, in an integrated water resources planning framework, the planning of all current and future wastewater facilities to meet the overall water resources needs of the service area in the most cost-effective means possible. The WFMP is the primary policy guiding the development of the Agency's TYCIP.

The WFMP, along with the Recycled Water Feasibility Study and Implementation Strategy and Organics Management Strategy Business Plan, constituted a "Program Master Plan." It integrated all of the related planning activities in order to address the environmental concerns of the overall effects of the WFMP projects contemplated by IEUA. This TYCIP is consistent with the Program Master Plan and accompanying Programmatic Environmental Impact Report (certified on June 28, 2002).

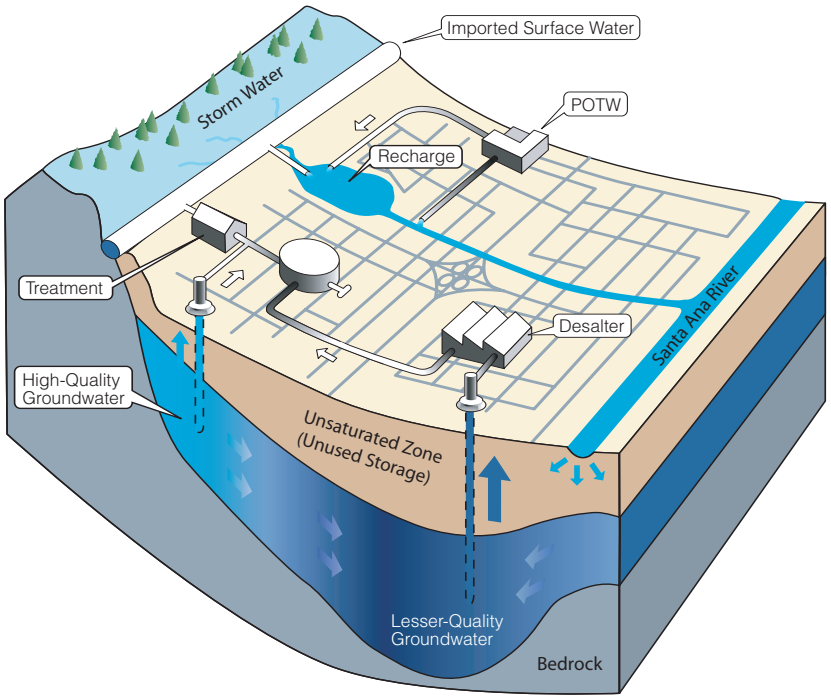


Optimum Basin Management Program

One of the major related planning efforts is the Chino Basin Watermaster's Optimum Basin Management Program (OBMP). The OBMP addresses groundwater quality problems and identifies groundwater management opportunities to be pursued for the benefit of the Chino Basin resources. The purpose of the OBMP was to develop a water quality- and quantity-based management plan that would allow continued reliance on groundwater for beneficial uses within the basin, while minimizing demand for imported water, and to encourage the beneficial use of the large available storage space in the Chino and Cucamonga Basin aquifer system.

One of the centerpieces of the OBMP is the IEUA and Watermaster joint recharge program partnership described in the OBMP Recharge Master Plan, Phase II Report (August, 2001). It is a comprehensive plan to increase artificial groundwater recharge within Chino Basin using stormwater, recycled water, and imported water. Through increased recharge capacity of the Basin, greater quantities of water can be stored and made available during imported water supply shortages. The figure below illustrates how the recharge program fits into the overall plan for Chino Basin groundwater management as outlined in the Watermaster's OBMP and the Recharge Master Plan.

Storage & Recovery in Chino Basin



Recharge Master Plan

In January of 2002, the IEUA Board of Directors approved the Recharge Master Plan Implementation Memorandum of Agreement, between the Chino Basin Watermaster, Chino Basin Water Conservation District, San Bernardino County Flood Control District, and IEUA. Members of these four agencies have formed a Groundwater Recharge Coordinating Committee to implement a $40-million program entitled the Chino Basin Facilities Improvement Program (CBFIP) resulting in construction projects to improve basin recharge facilities. The IEUA is serving as the lead Agency for implementation (design, construction, operation and maintenance) of this cooperative program.

The CBFIP is a Groundwater Recharge Program that includes proposed improvements at 18 recharge basin sites, construction of two new sites, with approximately 38 recharge basins. The improvements will maximize the recharge capacity of those facilities, protecting and increasing the yield of the groundwater basin, increasing the amount of recycled water that can be recharged, and improving groundwater quality. Full implementation of the Recharge Master Plan will create 90,000 to 115,000 AFY of improved, plus new recharge capacity in Chino Basin. Recently, IEUA completed California Department of Health Service's requirements for using recycled water to recharge the Chino Groundwater Basin (Phase I Basins) and was granted a recharge permit by the California Regional Water Quality Control Board (Santa Ana Region) in April of 2005.

The CBFIP also includes a project to construct lysimeters and groundwater monitoring wells to evaluate the impacts of the recharge program on the groundwater basin. Additional projects are needed to enhance the Groundwater Recharge Program. A State of California Department of Water Resources (DWR) grant of $5.2 million will provide partial financing of the following project components to expand and enhance existing basins during fiscal years 2006-2007 and 2007-2008. They include:

- New pipelines for delivery of imported water and a concrete lined V-ditch at RP-3 to convey the three sources of water to the Declez Basin via the RP-3 trap channel,
- Improvements to the new SCADA system which include, adding in remote basins that are scheduled to be improved for groundwater recharge,
- Internal berm spillways to retain greater quantities of storm water within the various flow-through basins,
- A new Metropolitan Water District of Southern California (MWD) turnout on the Rialto Pipeline will be constructed to deliver imported water to two series of basins on the West Cucamonga Channel,
- Nine new sets of lysimeters will be constructed to immediately monitor the recycled water quality with regards to the soil/water treatment in the basins; and nine new groundwater monitoring wells to track the movement of recycled water down gradient from the respective basins,
- A total of five new recycled water turnouts will be added to the IEUA Regional Recycled Water Distribution System, and
- Singular projects such as:
  - Backflow prevention devices on inflow pipelines,
  - A new sluice gate at San Sevaine Basin No. 5.

Reuse of recycled water for groundwater recharge is a critical component of the OBMP and water supply plans for the region. It will increase the reliability of water supplies during dry years and reduce reliability on imported water. The use of high-quality recycled water along with other high-quality sources will also improve groundwater quality through dilution. Improvements in groundwater quality through recharge also lower the cost of the Chino Basin Desalter groundwater treatment processes.

Maximum Benefit Basin Plan (Santa Ana Regional Water Control Board)

Regulations and standards governing the use of recycled water have been adopted by two state agencies: the Department of Health Services and the Regional Water Quality Control Board, Santa Ana Region, (Regional Board). In February 2004, the Regional Board adopted amendments to the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) incorporating a "maximum benefit" proposal recommended by IEUA and the Chino Basin Watermaster. The Maximum Benefit Basin Plan establishes new, scientifically-based Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) groundwater quality objectives and wasteload allocations that allow the use of recycled water for groundwater recharge while providing reasonable protection of the groundwater quality in the Chino Basin and protect downstream users.

As part of the Maximum Benefit Basin Plan, IEUA and the Chino Basin Watermaster have committed to a specific set of projects and requirements in order to demonstrate that the water quality of the groundwater basin is protected and that the plan provides the maximum benefit to the users of the groundwater basin. These commitments include:

- Surface water and groundwater monitoring programs;
- Chino desalters (consistent with OBMP requirements of 40 mgd by 2020);
- Recharge facilities/conjunctive use program;
- Recycled water quality management (through industrial waste source control and optimum utilization of the IEUA's non-reclaimable waste (NRW) system); and
- Hydraulic control to protect the Santa Ana River quality (consistent with the 2003 Orange County Water District and IEUA/Watermaster Memorandum of Understanding).

In order to recharge recycled water in the Chino Groundwater Basin IEUA and Watermaster prepared a Maximum Benefit Concept Proposal to the Regional Board for the basin plan amendment. The proposal was approved by the Regional Board and incorporated into the basin plan amendment in February 2004. The State Water Resources Control Board approved the basin plan amendment in September 2004. The incorporation of "Maximum Benefit" into a basin plan is unprecedented in the state.

Through timely and appropriate implementation of these commitments, the Basin Plan's "maximum benefit" water quality objectives will be achieved; and unnecessarily restrictive historical "antidegradation" objectives will be avoided. This will result in significant savings to the Agency for outside water imports and wastewater treatment costs.

Recycled Water Program

IEUA recognizes that water recycling is a critical component of an effective water resources management strategy. IEUA prepared a Recycled Water System Feasibility Study (Feasibility Study), adopted by the Board of Directors in August 2002, which delineated the Agency's recycled water program through the year 2020. In 2004, IEUA initiated development of the Regional Recycled Water Program Implementation Plan which updated information from the 2002 report. The Implementation Plan identifies additional future recycled water demand, primarily in the developing areas of Chino and Ontario increasing the total deliveries to approximately 93,000 acre-feet per year. The plan identifies a phased implementation over the next ten years with provision for additional expansion beyond the ten year planning horizon. The estimated cost of the facilities planned for the next ten years is $197 million to be funded by a combination of state and federal grants, state low-interest loans, MWD LRP rebates, and Regional Program funds.

Over the years, recycled water will become a larger portion of the overall water resources supply mix for the Chino Basin. (IEUA Urban Water Management Plan, 2005). Water recycling will help "drought- proof" the Basin, help achieve the objectives of the OBMP, reduce reliance on imported water supply, and provide a lower cost water supply to all the residents of the IEUA service area. IEUA's goal is to use as much recycled water for local beneficial uses as is economically practical. Recycled water will also be utilized to replenish the Chino Groundwater Basin (blended with stormwater and imported water) to meet the replenishment needs of the Chino and Cucamonga Basins. This will provide significant drought and emergency storage benefits to the residents of IEUA's service area.

The 2002 Feasibility Study and 2004 Implementation Plan included an assessment of the potential recycled water customers within the IEUA service area. Staff worked with the regional agencies to identify over 1,900 potential customers. This information was used to plan the regional and local recycled water distribution pipelines. Pipeline locations were selected to provide recycled water to the largest customers or groups of customers resulting in cost effective facilities. Ultimately, this distribution system layout will serve over 1,200 of the largest customers and supply over 93,000 AFY, which includes 33,800 AFY for recharge.

In September 2000, the IEUA Board and Regional Technical and Policy Committees adopted a recycled water policy document which defines the roles and responsibilities of IEUA and the Regional Contracting Agencies for the construction and ownership of the regional and local facilities. Regional facilities are defined as facilities, pipelines, pump stations, and reservoirs which serve recycled water to a recharge site or to more than one Contracting Agency. Regional facilities will be constructed and owned by IEUA. Local facilities will deliver recycled water from the regional facilities to customers within a Contracting Agencies service area and will be the responsibility of the respective agency. Local facilities will primarily be pipelines (local laterals) and may also include some pump stations and reservoirs. In 2005 this policy will be updated to include provisions for: regional funding of local storage facilities which reduce regional storage needs; provision for reimbursement of regional facilities constructed by others (local agency or developer); and financing of local facilities and customer on-site retrofits.

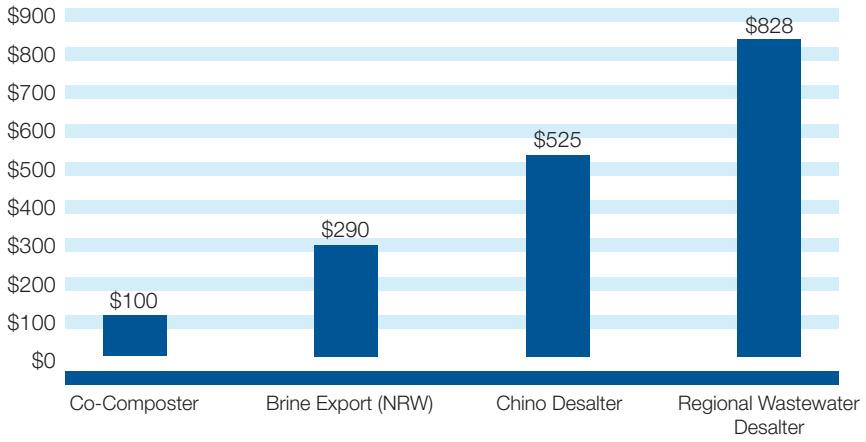
The Regional Recycled Water Facilities consist of a looped pipeline system which connects all four Regional Water Recycling Plants. Future satellite plants, identified in the Wastewater Master Plan, will also be connected to the regional facilities. Regional facilities have been described in over 50 separate projects of pipelines, pump stations, and reservoirs. These projects have been grouped into five implementation phases scheduled every two years. The priority of each phase was determined based on the amount of recycled water each phase could serve and the proximity of each phase to one of the plants or existing recycled water supply. Phase I and II of the program will deliver recycled water to most of the recharge sites since the recharge sites represent a significant recycled water use.

Non-Reclaimable Wastewater (NRW) System

The IEUA owns and operates a non-reclaimable wastewater (NRW) system that provides for export of high-salinity and industrial wastewater generated within the Agency's boundaries to the Pacific Ocean. The wastewater discharged to the NRW system consists mainly of industrial and groundwater treatment brines, but also includes some solids processing side streams from the IEUA's water recycling treatment facilities and some domestic waste from un-sewered areas. The NRW system is physically separated from the Regional Domestic Sewage System and provides a means for segregating poor quality, saline wastewater and exporting it from the service area. This improves the quality of the recycled water for local use and helps ensure that IEUA can comply with the TDS and total nitrogen limits in the Regional Board permits. The NRW system currently exports approximately 35,550 tons per year of salt to the ocean.

A study by Parsons Engineering Science (2000) evaluated the long-term issues and future funding needs for operating and maintaining the NRW system in the most cost-effective manner. Parsons suggested that the most cost-effective strategies for maximizing the use of the NRW system were: (1) diverting more high-salinity wastewater flow from the Regional system to the NRW system, thereby reducing the need for expansion of the Regional system; and (2) melding the NRW user rates and charges with the Regional system, "Regionalization". The study confirmed that utilization of the NRW system minimizes the Agency's treatment costs for salt, as illustrated in the following figure.

Relative Costs of Salt Removal from Chino Basin (Dollars per Ton of Salt Removed)



With the acceptance of the Parsons report in June 2000, the Board began a policy of phased implementation of budgets and rates to encourage industries to discharge brine wastes to the NRW system instead of the regional sewer system to maximize salt export and improve the water quality (TDS) of regional water recycling plants. Reducing saline contributions to the regional plants will help IEUA to avoid exceeding its discharge permit limit of 550 mg/l TDS. Since removing TDS by treatment requires very expensive technology such as reverse osmosis, it is much more cost-effective to use the NRW system to keep the salt out of the domestic sewage system.

On March 19, 2003, the Board held a workshop to review existing policies for utilization of the NRW system and to begin developing an NRW Action Plan. The purpose of the Action Plan was to implement strategies to reduce TDS at the IEUA regional water recycling plants and to encourage salt export through optimum utilization of the NRW system consistent with the OBMP and the Maximum Benefit Basin Plan. A second workshop was held on November 19, 2003 to review and refine the action plan. The proposed action plan was developed through extensive coordination and discussion with the IEUA's Regional Technical and Policy Committees, the Chino Basin Watermaster, and the Regional Board.

The current NRW Action Plan includes several measures designed to more fully utilize the capacity of the NRW system to benefit the IEUA service area:

- **Water Softener Strategy —** Developed a comprehensive program of incentives, public education materials and model ordinances for new and existing residential and commercial water softeners for fiscal year 2004/05. The budget for the program is $250,000 per year using the Wastewater Collection, Treatment, and Disposal (RC) Fund. This project has already been initiated and it is progressing well. (Status: In progress),
- **Buyback Agreement with CSDLAC —** IEUA relinquished 3 MGD of owned capacity in the NRW to LACSD in April 2004. This action will lower annual payments to CSDLAC by approximately 23% or $350,000 annually. The savings will be passed on to NRW customers through more favorable rates and charges. This transaction will also encourage the use of the NRW system by new and existing industries to discharge their saline effluent and increase the salt export. (Status: Completed),

- **Implementation of the Maximum Benefit Basin Plan —** Ensure compliance with the Maximum Benefit requirements and with the Memorandum of Understanding with the Orange County Water District and Regional Board. Critical near-term action items are: (1) develop monitoring work plan with Watermaster; (2) evaluate regional wastewater pretreatment ordinance technical TDS increment; and (3) annual reports on salt balance (Watermaster responsibility). (Status: In progress),
- **MWD Dry Year Yield Conjunctive Use Ion Exchange Projects —** Construct connections to the NRW system (IEUA implementation responsibility) in conjunction with Upland, CVWD, Monte Vista Water District, Chino, Ontario, and Chino Hills for several proposed ion exchange projects. These projects will improve the water quality in the groundwater basin and improve its yield, especially during dry years, through participation in a conjunctive use program with MWD. (Status: In progress),
- **NRW "Pass Through" Rates —** IEUA staff developed pass through rates and budget impact analysis for existing industrial customers. The goal was to "pass through" charges from LACSD and SAWPA to industrial customers for using their non-reclaimable waste systems, with addition of only minimal charges to cover the IEUA administrative expenses. This action will encourage exporting more salts from the Chino Basin by connecting more industries to discharge their brine wastes to the system. The contract with Niagara Bottling Company was completed as a "case study" of this effort. The "Pass Through" rates will provide economic incentives for existing regional industries to divert their discharge to the NRW system, if their effluent TDS concentration is above 500 mg/L. This action is a key to the Chino Basin OBMP strategy. (Status: Completed),
- **Chino Desalter "SARI" Capacity Alternatives —** In April 2004, IEUA made an agreement with Chino Desalter Authority (CDA) to sell IEUA owned SARI capacity to the CDA to handle the brine waste from the Chino I Desalter Expansion and the future Chino II Desalter. The revenue from this sale transaction was $14.25 million. Approximately $4.73 million from the sale is expected to be deposited into IEUA's Regional Capital Improvement Fund (RC Fund) and $9.51 million is expected to be deposited into the NRW Capital Improvement Fund (NC Fund). (Status: Completed), and
- **Leasing of Temporary SARI Capacity to Lewis Operating Company —** IEUA had made an agreement with Lewis Operating Company (LOC) to lease a portion of the SARI capacity for their Chino Preserve Expansion. IEUA has made this lease available to LOC until City of Chino has completed the design and construction of the Pine Ave. interceptor sewer. Once the construction of the Pine Ave. interceptor is completed the California Institute for Women (CIW) stops discharging to the SARI and starts discharging to the Pine Ave. interceptor, which will discharge to the IEUA's Regional Plant No. 5. (Status: Completed).

Organics Management

The Agency's long-range plans for treating and utilizing biosolids as well as dealing with the problems of dealing with manure and green waste generated within its service area were addressed in the Chino Basin Organics Management Business Plan, dated May 31, 2001 and related Organics Management Strategy Technical Memoranda. The Business Plan was developed to be consistent with the IEUA's mission to protect public health, the groundwater basin, and the environment (e.g., reduce air pollution and improve water quality). The Board certified the Programmatic EIR for the Business Plan in June 2002 and adopted the Business Plan together with the WFMP and the Recycled Water Feasibility Study in August 2002.

To the extent it is economically feasible, the IEUA's organics management strategy seeks to protect the Chino Groundwater Basin from infiltration of salts and nitrogen compounds generated on dairies in order to avoid the future cost of removing such contaminants from the groundwater. As a result, the Business Plan is an integral tool to implement the Chino Basin Watermaster's Optimum Basin Management Plan. The Business Plan included the implementation of two key initiatives. The first is a comprehensive renewable energy reliability program, which has resulted in the construction of two dairy manure digestion facilities to generate methane gas and divert salts from the groundwater basin. The second is a local organics recycling program that includes the local communities as partners to divert organic solids from landfill disposal and to be consumers of recycled organic products generated from within the community. Along with the IEUA Co-Composting Facility which opened in 1996 to compost dairy manure with municipal biosolids, the two manure digestion facilities have diverted a significant amount of pollutants: 118,000 tons of total dissolved solids (salt), 239 tons of nitrate-nitrogen, and 4,980 tons of ammonia.

In partnership with the County Sanitation Districts of Los Angeles County (CSDLAC), IEUA formalized an agreement implementing the joint goal of development of a sustainable biosolids management project. This Joint Powers Agreement (JPA) outlines the design, construction and operation of a biosolids composting facility, called the Inland Empire Regional Composting Facility (IERCF), to be located adjacent to the IEUA Regional Water Recycling Facility No. 4, located in Rancho Cucamonga, CA. This new composting facility will replace IEUA's Co-Composting Facility located in Chino, CA. The transition to the IERCF and decommissioning of the existing Co-Composting Facility is scheduled for late 2005/early 2006. While it is anticipated that the majority of biosolids generated at the IEUA's water recycling facilities will be made into compost at the Inland Empire Regional Composting Facility, IEUA will continue evaluating several options that will provide a diverse, yet cost-effective, long-term sustainable biosolids recycling portfolio.

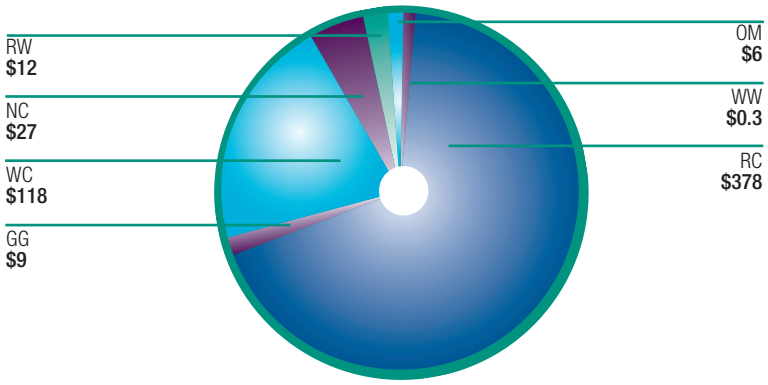
Ten Year CIP Costs and Financing

The Agency's budget and Ten-Year Capital Improvement Program are divided into several different program areas:

- Wastewater Collection, Treatment, and Disposal (RC Fund)
- Recycled Water Program (WC Fund)
- Recharge Water Program (RW Fund)
- Non-reclaimable Waste System Program (NC Fund)
- Organics Management Program (OM Fund)

By far the largest fund/program area, in terms of costs, is the RC Program, as illustrated in the figure below. This year's TYCIP recommends $356 million in capital project expenditures for the RC Program over the next ten years.

Figure 8-1: Recommended Ten-Year Capital Project Expenditures (Dollars in Millions)



The projected ten-year RC Program capital project expenditures are higher than in last year's (FY 2004/2005) TYCIP by approximately $42 million dollars. The increase is generally attributable to the higher growth forecast for the Agency's service area and the need to accelerate some expansion projects. The higher forecast is due to increased development activity within the RP-4 and RP-5 service areas. Flows are expected to approximately double in those areas within ten years. Higher growth in the northern parts of the cities of Fontana and Rancho Cucamonga within the RP-4 service area has been spurred by the construction of the 210 Freeway. Annexation of the agricultural preserve in southwestern Chino and southern Ontario and approval of development plans in those areas will create more wastewater in the RP-5 service area.

Treatment capacity expansions will be needed to accommodate the forecasted flows. The planned expansions include:

- Expansion of RP-4 from 7 mgd to 14 mgd occurring in FY 2007/2008,
- Expansion of RP-4 from 14 mgd to 21 mgd occurring in FY 2016/2017, and
- Expansion of RP-5 from 15 mgd to 27 mgd occurring in FY 2010/2011.

The planned expansions, diversions, and bypasses will allow the Agency to achieve the WFMP goals of: (1) increasing reuse and recycling potential in the upper Service Area by keeping more flow at RP-4; and (2) optimizing capacity utilization at the other three regional plants by balancing flows throughout the Service Areas. Opportunities for water recycling will be maximized by diversion of wastewater to RP-4 from some portions of CVWD and the City of Fontana now tributary to RP-1. Construction of the RP-4 Trunk Sewer and the San Bernardino Avenue Pump Station and Force Main are a key part of this plan.

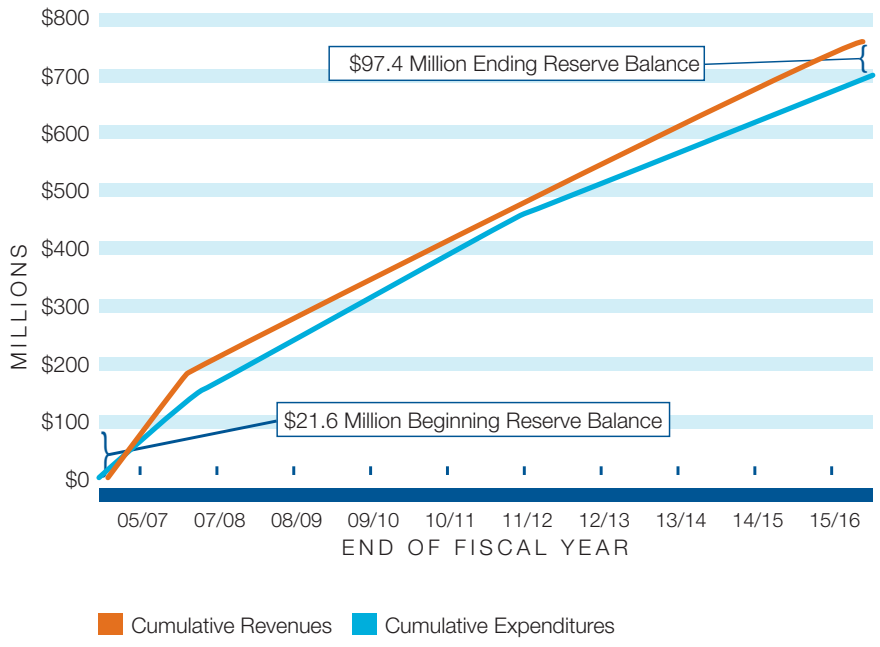
Completion of the eastern RP-1/RP-5 bypass pipeline by June 2006 will help to optimize existing system capacity and defer the need for construction of more RP-1 treatment capacity until beyond the TYCIP window. It will also have odor control benefits at RP-1 by eliminating the need for storing primary-treated wastewater in equalization ponds. The pipeline will be jointly constructed and operated with the City of Ontario and will provide IEUA with at least 9 mgd of capacity that can be used to bypass flow from the RP-1 Service Area to the RP-5 Service Area.

RP-5 began discharging treated wastewater through its outfall to Chino Creek in March of 2004. Liquids treatment operations at RP-2 were discontinued shortly thereafter. Current growth projections indicate that an expansion of RP-5 may be needed by 2010 of the Ten Year Planning Period.

The recommended financing for this TYCIP is from several different sources. Commercial paper or new bond debt is needed in FY 2006-2007 because of a shortage of connection fee revenue. Within the RC Program, grants are expected to total $9.5 million for wetlands and energy efficiency projects during FY 2006-2007. The key sources of revenue for the TYCIP are property taxes ($186 million) and supplemental capital contributions ($287 million). Supplemental capital contributions come from calls to Contracting Agencies for Capital Capacity Reimbursement Payments (CCRP), which are derived from connection fees. The expected revenue from Reimbursement Payments depends on the number of new EDUs added to the Regional sewerage system each year. The expected number of EDUs is forecasted based on growth projections.

In the past, it has been assumed that the CCRP will be increased at the rate of inflation in construction costs, estimated at an average of 3% per year. Starting in FY 2005/2006, the annual increase in the CCRP is calculated as the ten year average Engineering News Record (ENR) construction cost index for Los Angeles County (ENRLA). The current (FY 2005/2006) Capital Capacity Reimbursement Payment amount is $4,000 per EDU. The proposed increase, approved by the Regional Committees on March 2, 2006, was a 5 percent increase to $4,200.

The recommended financing for the Regional Program is adequate to fund the Ten-Year Capital Improvement Plan with the borrowing proposed in FY 2006-2007. The figure below shows how gross revenues and costs vary throughout the ten years, affecting the combined working capital and Member Agency reserves. Starting with a projected combined reserve balance of $77 million at the beginning of FY 2005/2006 with initial costs set to zero, cumulative revenues are projected to exceed costs during the next ten years, leaving an ending combined reserve balance of $59 million.



Emerging Planning Issues

In 2002, IEUA staff, in partnership with the Regional Technical Committee, prepared a very comprehensive master plan of the regional wastewater facilities. In 2005/2006, IEUA staff will be closely coordinating an implementation strategy for the Master Plan with the regional committees to ensure that all the key technical issues are addressed.

During the process of preparing the master plan in 2001 and 2002, the key issues were:

- Recycled water,
- Renewable energy generation,
- Organics management,
- Phased treatment plant expansions, and
- Chino Basin Watermaster Optimum Basin Management Plan (OBMP) implementation.

The 2002 Wastewater Facilities Master Plan (WFMP) recognized the interrelationship of the many programs IEUA is involved in, and also the interrelationship of the facilities that serve these programs. The continued success of the IEUA service area is heavily dependent on a high- quality, dependable water supply which in turn is dependent on sound conservation and waste management practices. A major tenet of the Chino Basin Resource Planning Agencies (IEUA, Chino Basin Watermaster, Chino Basin Water Conservation District, Chino Basin Desalter Authority, SAWPA, MWD) is to emphasize water recycling and to minimize the importation of MWD water supplies to the maximum extent possible. This philosophy resulted in a 2002 WFMP that incorporated a water recycling element for direct delivery and conservation of recycled water through groundwater recharge. It included an Organics Management Strategy for recycling the solids by-products of wastewater treatment and an Energy Management Strategy that emphasized self generation with recycled waste management by-products.

The primary objective of the Master Plan Implementation Strategy will be to improve utilization of existing facilities while expanding these facilities to meet the rapid growth in the IEUA service area. The implementation plan will focus on the development of program areas such as RP-1 to coordinate and optimize the capital improvements in that general area. Other program areas include the remaining treatment facilities, recycled water facilities, energy facilities, etc.

The resources necessary to continue the development and integration of new programs and facilities will continue to be from responsible fiscal management. To this end, on-going evaluations as well as evaluations in the Master Plan Implementation Strategy will prioritize and make the best use of future capital dollars by evaluating projects such as:

- **NRW System –** How can the NRWS be fully utilized to improve water quality and defer expansions at RP-4 and RP-5?
- **RP-4 Solids –** When should organic solids be processed at RP-4 to minimize cost and increase energy production?
- **Food Waste –** Do the existing anaerobic digester waste treatment systems have sufficient capacity to accept new waste streams (food waste) to enhance renewable energy production?
- **CMOM –** How will implementation of the new SWRCB “550” Sewer Collection program and asset management affect future facility maintenance needs?
- **System Automation –** How can the facilities in the system be automated to reduce staffing needs?
- **Recycle Stream Treatment –** Is side stream treatment economical and is it needed now based on excess system capacity?
- **RP-5 –** How should RP-2, RP-5, and the Carbon Canyon Water Recycling Facility be integrated and how should the RP-5 be expanded to meet future growth?
- **Technology –** Use of technology to further reduce operating costs and land requirements at the IEUA water recycling plants.

Key goals will be to reduce operating costs at IEUA water recycling plants through cost-effective capital improvements and to ensure environmental compliance. In addition, improvements to the plants to expand existing capacity to process wastewater to meet the rapid growth are a critical emerging issue.





Introduction

Introduction

Background

The Inland Empire Utilities Agency (IEUA) is a wholesale distributor of water and recycled water and provides regional wastewater treatment services. It provides industrial and municipal wastewater collection through regional wastewater interceptors, two non-reclaimable waste pipeline systems, treatment at four regional treatment plants, biosolids management and other related utility services for a 242-square-mile area of western San Bernardino County. The IEUA closely coordinates its water resources management program in the Chino Groundwater Basin with the Chino Basin Watermaster, the San Bernardino County Flood Control District, the Chino Basin Water Conservation District, and local water and wastewater retail agencies.

IEUA's Mission

The mission of the Agency is to supply imported and recycled water; collect, treat, and dispose of wastewater; and provide other utility-related services to the agencies it serves. The Agency strives to provide these services in a regionally planned, managed, and cost-effective manner which protects the public health and environment, and maintains a high level of public awareness.

In coordination with its Contracting Agencies, the IEUA has developed this Ten-Year Capital Improvement Program (TYCIP) to determine the capital spending requirements needed to meet future wastewater service needs, and coordinate and set priorities for future water supply, recycling, and wastewater capital projects. The IEUA provides regional wastewater-related service to seven Contracting Agencies:

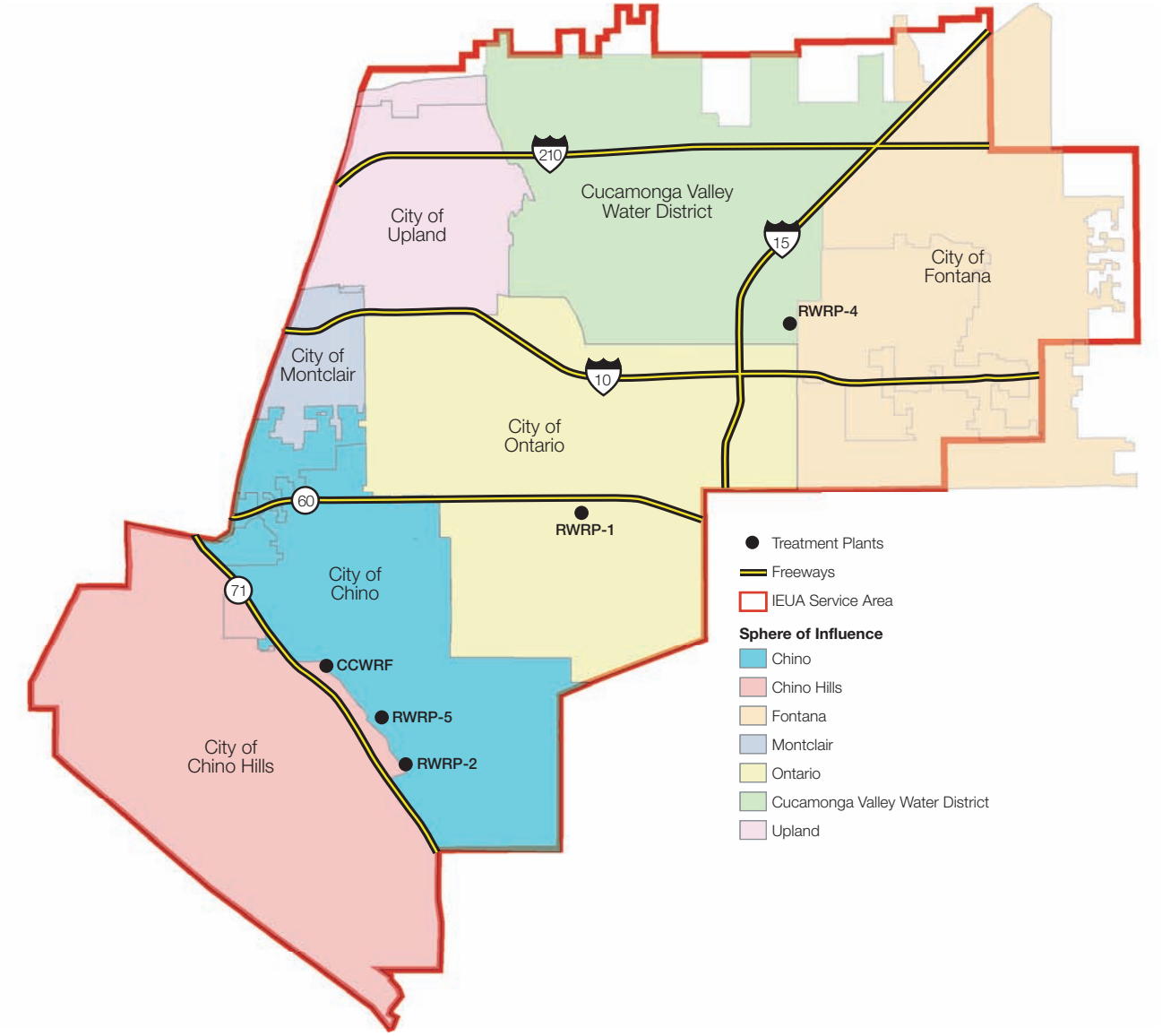
- City of Chino
- City of Chino Hills
- Cucamonga Valley Water District (CVWD)
- City of Fontana
- City of Montclair
- City of Ontario
- City of Upland

The residents of the Chino Basin area voted to form the IEUA (originally incorporated as the Chino Basin Municipal Water District) in June 1950. The IEUA is governed by a five-member Board of Directors (Board), elected to represent individual areas or Divisions. The IEUA is a member of the Metropolitan Water District of Southern California (MWD) and the Santa Ana Watershed Project Authority (SAWPA) and has representatives on the MWD's Board of Directors and SAWPA's Commission. The IEUA also has a representative on the Chino Basin Watermaster. The IEUA, its Board, and staff, strive to ensure that reliable, cost-effective water utility services, which protect and enhance the environment while fostering economic development, are available when needed.



Figure 1-1 depicts the IEUA service area, each Contracting Agency's sphere of influence, and IEUA's Regional Treatment Plants.

Figure 1-1: Contracting Agencies



Wastewater Facilities Master Planning

In August of 2002, the Regional Technical and Policy Committees recommended and the IEUA Board of Directors adopted a Wastewater Facilities Master Plan (WFMP). The IEUA's goal for the Master Plan was to coordinate, in an integrated water resources planning framework, the planning of all current and future wastewater facilities into a single comprehensive document for ultimate growth (2050) in its service area. The WFMP is the primary policy guiding the development of the Agency's TYCIP.

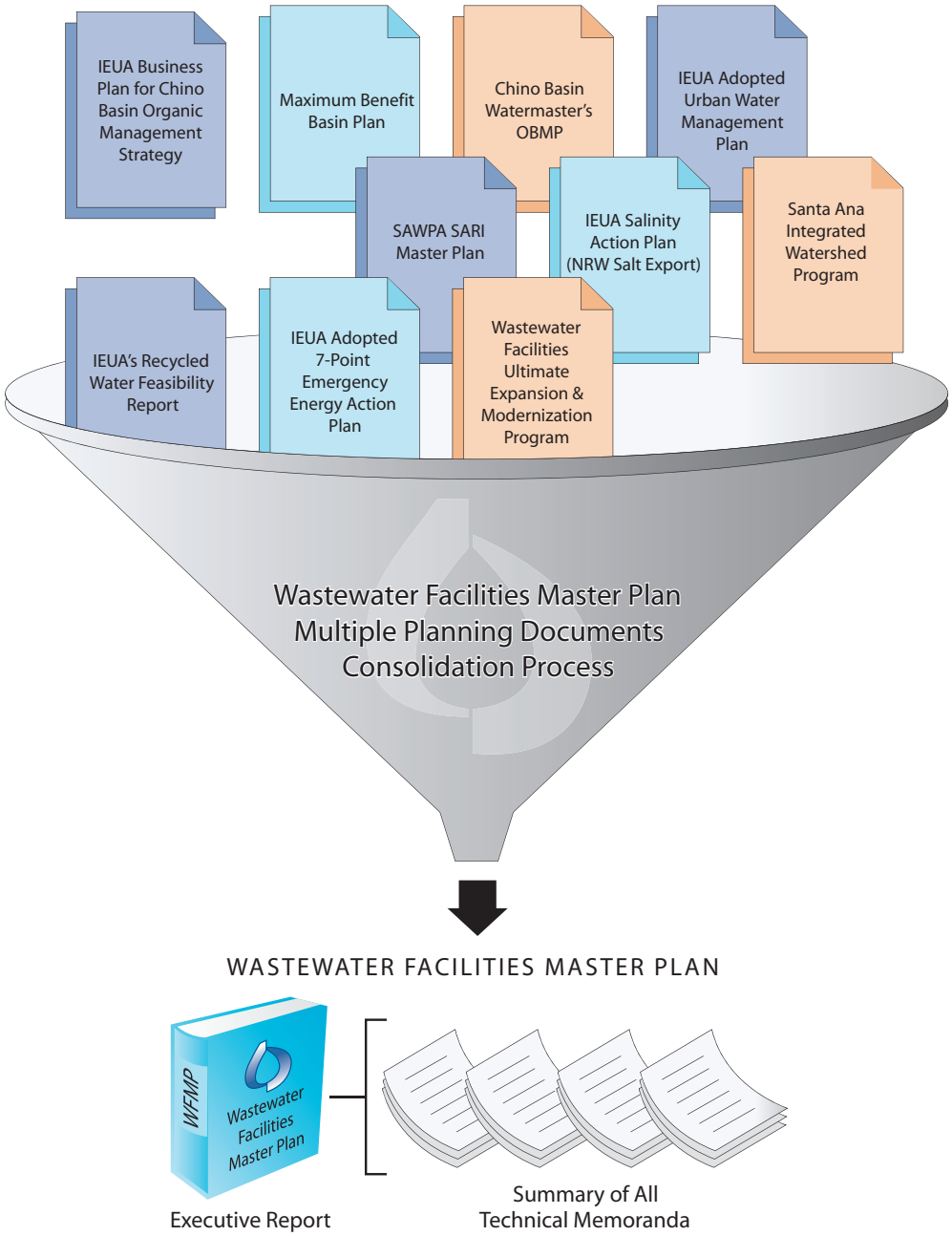
Some of the objectives of the WFMP were to: (1) identify facilities that need to be replaced or expanded in the near- and long-term to meet projected growth and wastewater flow needs; (2) develop a cost-effective, phased implementation plan; (3) determine space and location needs for additional or expanded treatment facilities; (4) develop strategies for flow diversion between service areas to optimize existing treatment capacity utilization; and (5) maximize water recycling, energy efficiency, and organics recycling. The IEUA's water recycling, organics management, and energy management programs are interrelated and dependent on the future of the IEUA's wastewater facilities expansions.



Related Planning Activities

This TYCIP is consistent with the WFMP and Programmatic EIR (certified on June 28, 2002). The WFMP, along with the Recycled Water Feasibility Study and implementation strategy as well as the Organics Management Strategy Business Plan, constitute a "Program Master Plan." It integrated all related planning activities into one comprehensive document in order to address the environmental concerns of the overall effects of the WFMP projects contemplated by the IEUA. This comprehensive planning process is illustrated in Figure 1-2. The various related planning documents are described briefly below.

FIGURE 1-2: WFMP—CONSOLIDATION OF RELEVANT IEUA PLANNING DOCUMENTS



Chino Basin Watermaster's Optimum Basin Management Plan (OBMP)

The OBMP for the Chino Basin was prepared by the Court-appointed Watermaster to address groundwater quality problems and identify groundwater management opportunities to be pursued for the benefit of the basin resources. The purpose of the OBMP was to develop a water quality and quantity based management plan for the Chino Groundwater Basin. The OBMP was intended to allow continued reliance on groundwater for beneficial uses within the basin - while minimizing demand for imported water - and encourage the beneficial use of the large available storage space in the aquifer system.

The OBMP addressed the need to develop additional water sources within the Chino Basin to meet future demands through water quality treatment, groundwater recharge, and water recycling programs. This Ten-Year Program is consistent with Watermaster's OBMP. A looped pipeline, along with storage reservoirs, and pump stations has been constructed that expand and interconnect the IEUA recycled water distribution system with local recycled water customers as well as groundwater recharge basins. Construction and improvement of 18 groundwater recharge basins have been completed, allowing for conservation of stormwater, recycled water, and imported water in the underground Chino Basin. The MWD Dry Year Yield Program funds six new groundwater treatment facilities that allow optimal use of the Chino Basin groundwater resource in accordance with the goals of the OBMP.

IEUA Recycled Water Feasibility Study

The IEUA prepared a Recycled Water Feasibility Study, adopted by the Board of Directors in August 2002, which delineated the Agency's recycled water program through the year 2020. In 2004, IEUA initiated development of the Regional Recycled Water Program Implementation Plan, which updated information from the 2002 study. In 2005, the IEUA Recycled Water Program Implementation Plan identified additional future recycled water demand, primarily in the developing areas of the cities of Chino and Ontario. IEUA recognizes that water recycling is a critical component of an effective water resources management strategy; over the years, recycled water will become a larger portion of the overall water resources supply mix for the Chino Basin. Water recycling will help "drought proof" the Basin, help achieve the objectives of the OBMP, and provide a lower cost water supply to all the residents within IEUA's service area.

IEUA's adopted Recycled Water Feasibility Study (August 2002), indicated that by the year 2020 the projected use of recycled water would exceed 70,000 acre-feet per year (AFY), with over 1,700 customers projected to be connected to the regional recycled water distribution system. Subsequent implementation of the 2005 Recycled Water Program Implementation Plan and the 2005 IEUA Urban Water Management Plan showed that a total of over 95,000 AFY of recycled water could be delivered to over 1,900 potential customers. IEUA will recharge up to 35,000 AFY of recycled water (blended with stormwater and imported water to meet the overproduction replenishment needs) into the Chino Groundwater Basin and facilitate direct deliveries of over 69,000 AFY of recycled water to local customers. IEUA's goal is to use as much recycled water for local beneficial uses as is economically practical and replenish the Chino Groundwater Basin. IEUA received a permit for recycled water recharge on April 15, 2005. IEUA expects to receive a second permit in the summer of 2006 that will allow an expansion to the recharge program.

The 2002 Feasibility Study recommended and the 2005 Recycled Water Program Implementation Plan confirmed that interconnection all four of IEUA's regional treatment plants in a looped distribution system would maximize beneficial use of recycled water, increase system reliability and flexibility, and provide other operational and cost reducing benefits. The looped system will also allow more customers to be served and provide the flexibility to release surplus recycled water to spreading basins throughout the Basin for recharge.

Over 50 projects with multiple priorities consisting of pipelines, pump stations, and reservoirs have been identified to be implemented over the next ten years (in two year intervals). IEUA is seeking outside funding, grants and low interest loans totaling $200 million, for the program from the State of California (Department of Water Resources (DWR)) and State Water Resources Control Board (SWRCB) and the U.S. Bureau of Reclamation (USBR). In 2003, IEUA amended its original (1996) local projects program agreement with MWD to include all four wastewater treatment plants. The original 1996 agreement with MWD only allowed recycled water deliveries from the Carbon Canyon Water Reclamation Facility. The program will provide IEUA with over $2 million annually from the $154/AF rebate (up to 13,500 AFY).

Recharge Master Plan

The Groundwater Recharge Program is a comprehensive plan to increase artificial groundwater recharge within the Chino Basin using stormwater, recycled water, and imported water. A component of the Chino Basin Watermaster's OBMP, the recharge program is described in the Recharge Master Plan, Phase II Report (August, 2001). In January of 2002, the IEUA Board of Directors approved the Recharge Master Plan Implementation Memorandum of Agreement, between Chino Basin Watermaster, Chino Basin Water Conservation District, San Bernardino County Flood Control District (SBCFCD), and IEUA. Members of these four agencies have formed a Groundwater Recharge Coordinating Committee to implement the $40-million program entitled the Chino Basin Facilities Improvement Program (CBFIP) resulting in construction projects to improve basin recharge facilities. The CBFIP will maximize recharge capacity, protect and increase the yield of the Chino Basin, increase the amount of recycled water that can be recharged, and improve groundwater quality. Construction and improvements have been made to 18 recharge basins with a total potential recharge capacity of 114,000 AF. Construction and improvement of two additional recharge basins will increase total potential recharge capacity to 134,000 AF.

Additional projects are needed to enhance the Groundwater Recharge Program ($11 million Phase II CBFIP). A $5 million grant from DWR will provide partial financing of the following project components:

- New pipelines for delivery of stormwater, recycled water, and imported water;
- Improvements to the new SCADA system (addition of remote basins);
- Construction of Internal berm spillways;
- Construction of new MWD turnouts on the Rialto Pipeline;
- Construction of nine new sets of lysimeters and nine new groundwater monitoring wells;
- Addition of five new recycled water turnouts from the IEUA Regional Recycled Water Distribution System.

IEUA and Watermaster approved the $11 million Phase II improvements in April 2006 utilizing the DWR $5 million grant.

Santa Ana Integrated Watershed Program

The Santa Ana Integrated Watershed Program (SAIWP) consists of six major elements:

- Water storage to drought-proof the watershed by storing up to 1.3 million acre-ft (MAF) of new water underground throughout the Santa Ana River Basin,
- Water quality improvement to mitigate negative impacts from past agricultural, industrial and residential point and non-point source pollutants,
- Implementation of water recycling as a means of reducing the area's overall need for imported water,
- Development of flood protection along the main stem of the Santa Ana River,
- Enhancement of wetlands environment and habitat to restore the Pacific Flyway, and
- Recreation and conservation to bring additional recreational opportunities and increase public awareness of the Santa Ana River's environmental needs and purposes.

SAWPA is pursuing these elements simultaneously based on the availability of state grant funding and the aggregated needs of SAWPA member agencies, including the IEUA, water districts, cities, counties, and several environmental groups.

Maximum Benefit Basin Plan

The Regional Water Quality Control Board, Santa Ana Region, (Regional Board) adopted amendments to the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) on January 22, 2004 incorporating a "maximum benefit" proposal recommended by IEUA and Chino Basin Watermaster. The Maximum Benefit Basin Plan establishes new groundwater Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) water quality objectives and wasteload allocations that allow the use of recycled water for groundwater recharge while providing reasonable protection of the groundwater quality in the region. The Maximum Benefit Basin Plan was an outgrowth of the "TIN/TDS Task Force" in which IEUA participated since 1995/96. The Task Force included the Regional Board and 22 water supply and wastewater agencies throughout the region. Coordinated by SAWPA, the Task Force completed multimillion dollar studies to review groundwater TDS and nitrogen objectives, groundwater subbasin boundaries, the TIN and TDS wasteload allocations and other components of the Regional Board's nitrogen and TDS management plans. The purpose of this study was to develop more scientifically defensible water quality objectives and avoid any unnecessary constraints on water recycling opportunities.

Reuse of recycled water for groundwater recharge is a critical component of the OBMP and water supply plans for the region. As part of the Maximum Benefit Basin Plan, IEUA and Chino Basin Watermaster have committed to a specific set of projects and requirements in order to demonstrate that the water quality of the groundwater basin is protected and that the plan provides the maximum benefit to the users of the groundwater basin. These commitments include:

- Surface water and groundwater monitoring programs,
- Chino Desalters (consistent with OBMP requirements of 40 mgd by 2020),
- Recharge facilities/conjunctive use program,
- Recycled water quality management (through industrial waste source control and optimum utilization of the IEUA's non-reclaimable waste (NRW) system), and
- Hydraulic control to protect the Santa Ana River quality (consistent with the Orange County Water District and IEUA Memorandum of Understanding).

If IEUA and Chino Basin Watermaster achieve timely and appropriate implementation of these commitments, then the Basin Plan's "maximum benefit" water quality objectives will be applied instead of more restrictive historical "antidegradation" objectives. This will result in significant savings to the Agency for outside water imports and wastewater treatment costs.

Chino Basin Organics Management Strategy Business Plan

The Chino Basin Organics Management Business Plan developed a strategy to manage the organics in the Chino Basin, including biosolids, dairy animal manure, and composting of local community green waste material. The Business Plan was published in May 2001, along with a Project Report containing ten Technical Memoranda, which provided the background and basis for the recommendations in the Business Plan. The IEUA Board of Directors certified the Programmatic EIR for the Business Plan in June 2002 and adopted the Business Plan together with the Wastewater Facilities Master Plan and Recycled Water Feasibility Study in August 2002. The Business Plan presented specific short-term and long-term recommendations as well as outlining of the steps and considerations that must be addressed in implementing projects consistent with the IEUA's goals and mission.

Construction of the Inland Empire Regional Composting Facility (IERCF) is scheduled to be completed in early 2006. The facility will convert the majority of biosolids generated at the IEUA's water recycling facilities into compost. IEUA will continue evaluating several options that will provide a diverse, yet cost-effective, long-term sustainable biosolids-recycling portfolio. The Complete-Mix Anaerobic Manure Digester project will produce energy from methane gas that will be used by the Agency's regional water recycling facilities and local groundwater desalination facilities. The Complete-Mix Anaerobic Manure Digester is planned to be completed in FY 2006/2007. The existing RP-5 Renewable Energy Digester Facility will be expanded and modified to generate additional digester gas which will be used to power Agency facilities. This Ten-Year Plan is consistent with the Business Plan recommendations.

IEUA Adopted Seven-Point Emergency Energy Action Plan

In response to the uncertainty in energy pricing and supply experienced in the winter of 2000, IEUA developed a Seven-Point Emergency Energy Action Plan. Some of the goals of this plan were to:

- Maximize the efficiency and self-sufficiency of existing office and plant operations,
- Generate new local sources of energy and minimize external energy/fuel costs,
- Maximize operational flexibility of plants to "roll off" the electric grid and natural gas sources, particularly during peak usage periods, and
- Promote regional energy and water conservation programs.

Through this plan, the IEUA intends to build self-sufficiency and local control over long-term energy supplies and assist the region and California in meeting their energy needs.

Salinity Management Action Plan—Regionalization of NRW System to Maximize Salt Export

The IEUA and its contracting agencies are implementing a regional recycled water distribution system to serve recycled water for non-potable reuse and groundwater recharge. Salinity is a critical element of recycled water quality for recharge and many other uses. Reduced salinity will enhance the marketability of recycled water and help IEUA meet the goals of the OBMP and the Maximum Benefit Basin Plan objectives. Reduced wastewater salinity will also help IEUA to comply with effluent limitations for TDS in its wastewater discharge permits. IEUA developed a Salinity Management Action Plan in 2002. Some of the strategies that were identified included:

- optimizing the use of the IEUA's non-reclaimable waste (NRW) system by connecting more industries,
- reducing the use of water softeners in the area to decrease saline flows into the regional water recycling plants, and
- reducing the salt contributions from IEUA treatment plant operations.

The current NRW action plan, was developed through extensive coordination and discussion with IEUA's Regional Technical and Policy Committees, the Chino Basin Watermaster, and the Regional Board. IEUA also expects to achieve substantial avoided costs and valuable benefits for the region as a result of implementation of the current NRW Action Plan. The Action Plan consists of the following:

- **Water Softener Strategy—** Developed a comprehensive program of incentives, public education materials, and model ordinances for new and existing residential and commercial water softeners. Buyback Agreement with CSDLAC—IEUA relinquished 3 MGD of owned capacity in the NRW to LACSD in April 2004, which has lowered annual payments to CSDLAC by approximately 23% or $350,000 annually. The savings will be passed on to NRW customers through more favorable rates and charges. Also encourages the use of the NRW system by new and existing industries to discharge their saline effluent and increase the salt export,
- **Implementation of the Maximum Benefit Basin Plan—** Ensure compliance with the Maximum Benefit requirements and with the Memorandum of Understanding with the Orange County Water District and Regional Board. Critical near-term action items: (1) develop monitoring work plan with Watermaster; (2) evaluate regional wastewater pretreatment ordinance technical TDS increment; and (3) annual reports on salt balance (Watermaster responsibility),
- **MWD Dry Year Yield Conjunctive Use Ion Exchange Projects—** Construct connections to the NRW system (IEUA implementation responsibility) in conjunction with Upland, CVWD, Monte Vista Water District, Chino, Ontario, and Chino Hills for several proposed ion exchange projects. Projects will improve groundwater basin water quality and yield especially during dry years,
- **NRW "Pass Through" Rates—** IEUA staff developed a pass through rates and budget impact analysis for existing industrial customers. This action will encourage export of salts from the Chino Basin by connecting more industries to discharge their brine wastes to the system. "Pass Through" rates provide economic incentives for existing regional industries with effluent TDS concentrations above 500 mg/L to divert their discharge to the NRWS and to use recycled water. Key component of the Chino Basin OBMP strategy,

- **Chino Desalter "SARI" Capacity Alternatives—** In April 2004, IEUA made an agreement with Chino Desalter Authority (CDA) to sell IEUA owned SARI capacity to the CDA to handle the brine waste from the Chino I Desalter Expansion and the future Chino II Desalter. The revenue from this sale transaction was $14.25 million. Approximately $4.73 million from the sale is expected to be deposited into IEUA's Regional Capital Improvement Fund (RC Fund) and $9.51 million is expected to be deposited into the NRW Capital Improvement Fund (NC Fund) (Status: Completed),
- **Leasing of Temporary SARI Capacity to Lewis Operating Company—** IEUA had made an agreement with Lewis Operating Company (LOC) to lease portion of the SARI capacity for their Chino Preserve Expansion. IEUA has made this lease available to LOC until City of Chino has completed the design and construction of the Pine Ave. interceptor sewer. Once the construction of the Pine Ave. interceptor is completed, the California Institute for Women (CIW) will stop discharging to the SARI and start discharging to the Pine Ave. interceptor, which will be discharged to the IEUA's Regional Plant No. 5,
- The IEUA will avoid the cost of treating non-reclaimable industrial wastewater at IEUA's water recycling plants, which would require additional secondary and tertiary treatment capacity to handle the flow plus desalination facilities to remove TDS,
- A resulting economic benefit to IEUA is the ability to use 25,000 to 35,000 acre-feet per year of recycled water for groundwater recharge instead of more expensive imported water,
- The avoided costs achievable by maximum utilization of the NRW System are about $430 million over the next ten years, and
- There will also be additional revenues from the sale of unused capacity, either: (1) as part of the CSDLAC buyback agreement; (2) for the Chino Desalters; (3) for local ion exchange groundwater treatment projects; or (4) for local development in unsewered areas.

The NRW Action Plan continues the IEUA Board's policy of phased implementation of budgets and rates in order to provide economic incentives for the export of brine wastes through the NRW system. The Agency's FY 2006/2007 Budget and this Ten-Year CIP incorporate specific budget options that were developed in coordination with the IEUA's Regional Technical and Policy Committees. Further details are provided in Chapter 6.

IEUA 2005 Urban Water Management Plan

In 2005, IEUA updated the 2000 Urban Water Management Plan (UWMP) in accordance with State of California Law. The 2005 UWMP describes all water supplies and demands within the IEUA service area.

Environmental Documentation

To comply with the California Environmental Quality Act (CEQA), IEUA certified a Programmatic Environmental Impact Report (EIR) on June 28, 2002. It included IEUA's Wastewater Facilities Master Plan, Organics Management Business Plan and the Regional Recycled Water Program. Supplements to the Programmatic EIR are prepared, when necessary, as specific project elements are better defined during each project design.

Purpose of this Ten-Year Plan

Pursuant to the terms of the Regional Sewage Service Contract, a TYCIP is prepared each year to identify capital spending requirements needed to meet the growth forecasts of IEUA's Contracting Agencies. The forecasted capacity demands of the Contracting Agencies are compared to the expected dates of completion of capital improvement projects necessary to meet those demands. Secondly, the expected costs are compared against the forecasted revenues based on the IEUA's budget and financial analyses. This allows projects to be prioritized and the Capital Capacity Reimbursement Payment (connection fee) to be adjusted to meet the identified needs of the system.

This Ten-Year Program includes ten-year and fifty-year wastewater flow forecasts, a description of the most significant capital improvement projects planned to meet those forecasts, a summary of the costs associated with the program, and a brief description of the financing package planned to implement the program. The financing program is consistent with the Agency's proposed Budget for FY 2006/2007 and the five-year business plan contained in that budget.

Besides keeping pace with forecasted capacity demands, this Ten-Year Program continues with implementation of the long-term programs established in the Wastewater Facilities Master Plan and related planning documents described above. It implements proactive solutions to challenges facing the Agency. The program increases self-generation of energy and improves energy efficiency--developing biogas and dairy waste digester gas as renewable energy sources and avoiding high energy costs and possible future shortages. It improves local water supplies, reducing the need for expensive imported water; and provides a long-term, sustainable solution to the problem of organics management, recycling 100 percent of the Agency's biosolids. Within the foreseeable future, the Agency expects to realize substantial avoided costs as a result of these initiatives.

Major Facilities

Water Recycling Plants

Figure 1-3 illustrates the service area boundaries for IEUA's four wastewater treatment and water recycling plants. The four Regional facilities are: Regional Plant No. 1 (RP-1), Regional Plant No. 4 (RP-4), Regional Plant No. 5 (RP-5), and Carbon Canyon Wastewater Reclamation Facility (CCWRF). IEUA uses regional interceptors to bypass flow from one treatment plant to another. Currently, the regional interceptors can bypass flow from RP-4 to RP-1 and from CCWRF to RP-5. Additional regional interceptors are under construction, which will allow bypass of flow from RP-1 to RP-5. The following section describes the regional interceptors in more detail. IEUA recently acquired a small satellite water recycling facility, which produces recycled water used on the Upland Hills Golf Course. IEUA has also been evaluating sites for possible future additional satellite water recycling facilities.

RP-5 began treating and discharging wastewater in March 2004. At the same time, discharge was ceased from Regional Plant No. 2 (RP-2). Since portions of RP-2 are located in the 100-year flood plain, liquid wastewater processing at RP-2 has been discontinued and the plant is being used only for processing solids from RP-5 and CCWRF. Solids processing at RP-2 will continue until the plant reaches the end of its useful life or until the RP-2 land can no longer be leased from the U.S. Army Corps of Engineers. Some land at RP-5 has been reserved for future solids processing facilities.

Regional Interceptor System

Diverting or bypassing flow from one service area to another is possible using regional trunk sewers (interceptors). Figure 1-4 illustrates the existing regional trunk wastewater system and tributary areas. Domestic wastewater flows can be bypassed from RP-4 to RP-1 and also to CCWRF and RP-5 and/or the Non-Reclaimable Waste (NRW) System, while domestic wastewater flows may be diverted from CCWRF to RP-5 and to the Santa Ana Regional Interceptor (SARI). The main routes for bypassing/diverting flow are:

- Operators can bypass up to 6 million gallons per day (mgd) from RP-4 to RP-1 through the Etiwanda Interceptor,
- Operators can bypass several mgd from CCWRF to RP-5 through the Chino Interceptor,
- A portion of the flow (approximately 2.5 mgd) from the Cities of Upland and Montclair can be diverted either to RP-1, through the Montclair Interceptor, or to CCWRF through the Westside Interceptor. About 90 percent of the time, the flow goes to CCWRF, but it can be pumped to RP-1 by the Montclair Pump Station, and
- A portion of the flow from the City of Ontario, which is currently pumped to RP-1 for treatment, is anticipated to become tributary to RP-5 upon completion of the Eastern Trunk Sewer, also referred to as the RP-1/RP-5 Bypass.

As shown on Figure 1-4, IEUA has three wastewater lift stations:

- The Montclair Lift Station pumps wastewater from portions of Montclair, Upland, and Chino to RP-1,
- The Prado Park Lift Station pumps wastewater from the Prado Regional Park in the City of Chino to RP-5, and
- A new lift station was constructed at RP-2 in FY 2003/2004 to pump the flow from the southeastern portions of the cities of Chino and Chino Hills to RP-5.
- A portion of the flow from Fontana that is tributary to RP-1 will be diverted to RP-4 through the San Bernardino Trunk and Lift Station when it is complete in 2007.

Figure 1-3: Regional Plant Service Area Boundaries

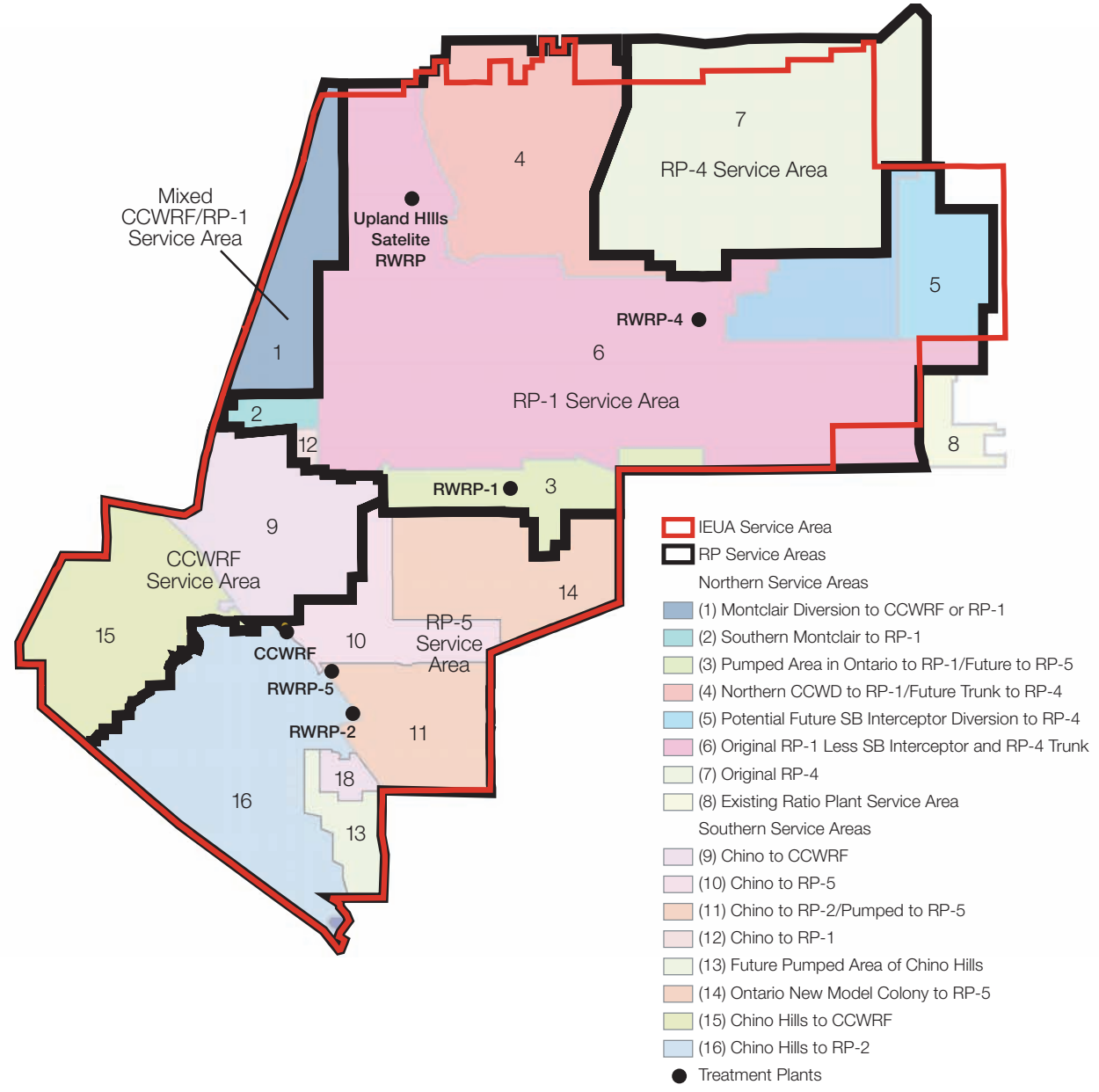
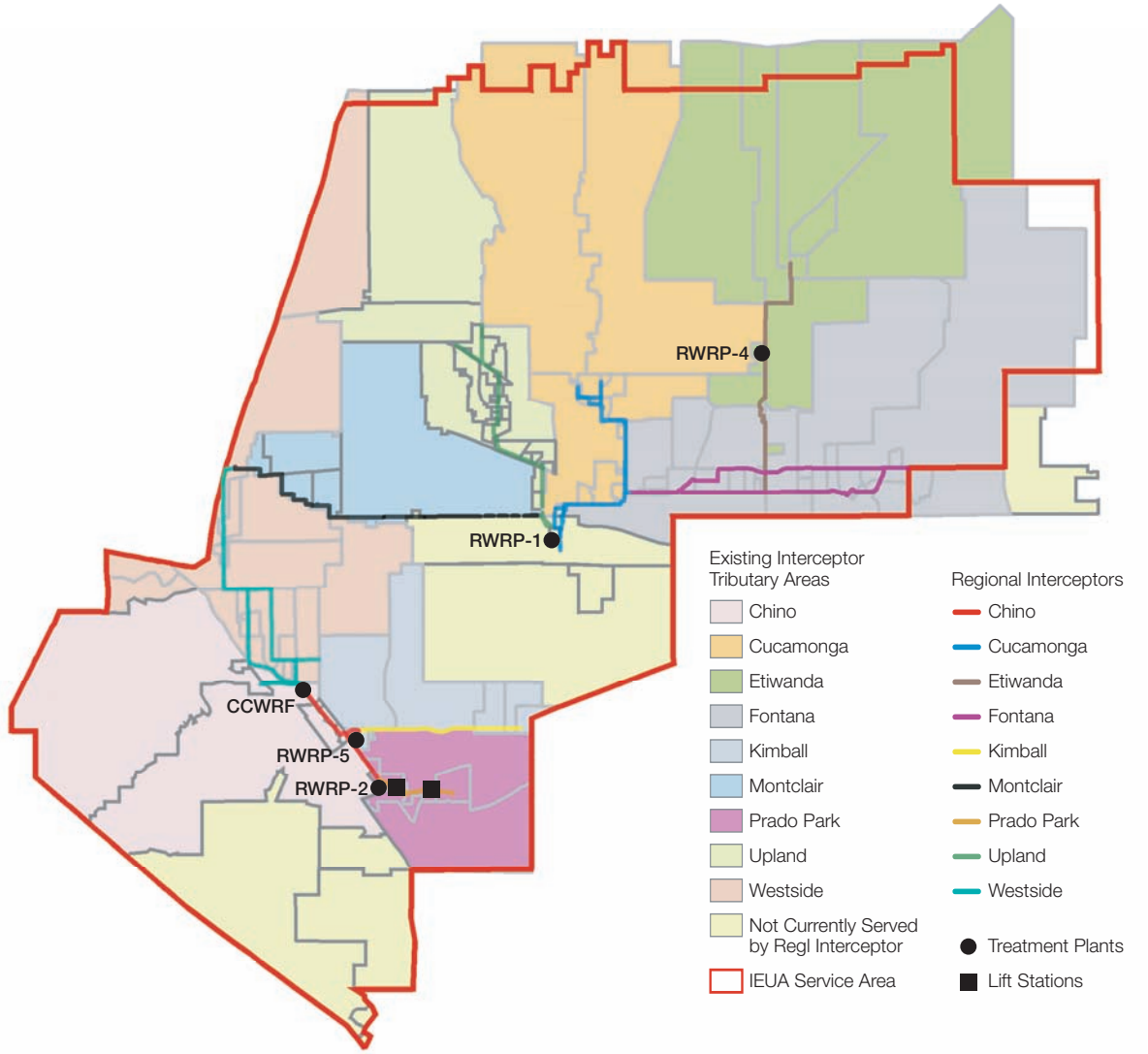


Figure 1-4: Existing Trunk Wastewater System and Tributary Areas





Wastewater Flow Projections

Wastewater Flow Projections

Exhibit I at the end of this report shows wastewater flow projections for the current IEUA service area. The "unadjusted" forecasts do not reflect any of the current or planned diversions or bypasses that were discussed in Chapter 1. Exhibits II through V show the unadjusted flow projections for the RP-1, RP-4, CCWRF and RP-5 service areas compared to planned service area treatment capacity. Appendix A contains the incremental EDU growth information provided by the Contracting Agencies tabulated by service area. Growth in the number of EDUs was added to the current committed capacity to project future flows.

Anticipated Growth

As indicated in Appendix A, the average rate of EDU growth over the next ten years was projected by the Contracting Agencies at 8,000 EDUs per year. Wastewater flow rates have been projected from these data using a factor of 270 gallons per day per EDU, as specified in the Regional Sewage Service Contract—Exhibit J. The anticipated flow increases within the system are summarized in Table 2-1 ("Regional System Flow and Capacity Utilization Summary"). During the Spring of 2006, IEUA asked the noted economist of the Inland Empire region, John Husing, to prepare a "build-out" forecast for the IEUA service area (May 2007) This report forecasted build-out by 2025.

An almost 35-percent increase in total system flow is expected over the course of the next ten years. Last year's growth forecast projected a 37-percent increase. While the system wide forecast is about the same, development activity within the RP-4 service area is less, and the growth forecast for the RP-5 service area has increased this year, flows are expected to approximately triple in those areas. Higher growth in the northern parts of the cities of Fontana and Rancho Cucamonga within the RP-5 service area is due to annexation of the agricultural preserve in southeastern Chino and southern Ontario and approval of development plans in those areas. Continued growth I the RP-4 service area will increase flow by 50 percent, but the reduction from 200 percent last year will delay the need for an expansion from 14 mgd to 21 mgd.

For each service area, Table 2-1 compares the anticipated regional plant flows on both an "unadjusted" basis and an "adjusted" basis. The unadjusted flow is the flow from the current service area of the regional plant, assuming no diversions or bypasses between Regional Plants. The adjusted flow takes into account the planned diversions and bypasses.

With the planned regional plant expansions, diversions, and bypasses, the overall treatment plant capacity utilization is expected to increase to 87 percent. The planned expansions include:

- Expansion of RP-4 from 7 mgd to 14 mgd occurring in FY 2007/2008 (see Exhibit III), and
- Expansion of RP-5 from 15 mgd to 27 mgd occurring in FY 2009/2010 (see Exhibit V).

The expansions at RP-4 and RP-5 will provide sufficient capacity (96.4 mgd) to treat the forecasted total system flow of 84 mgd in 2015/2016.

This Ten-Year Program results in the capacity utilization at RP-4 and CCWRF being higher than at the other plants. This is partly due to the need for system equalization. The Ten-Year Program allows the Agency to achieve the twin goals of: (1) increasing reuse potential in the Combined RP-1/RP-4 Service Area by keeping more flow at RP-4; and (2) optimizing capacity utilization at the other three regional plants by balancing flows between the Combined RP-1/RP-4 Service Area and the Combined CCWRF/RP5 Service Area.

Table 2-1 Regional System Flow and Capacity Utilization Summary (mgd)

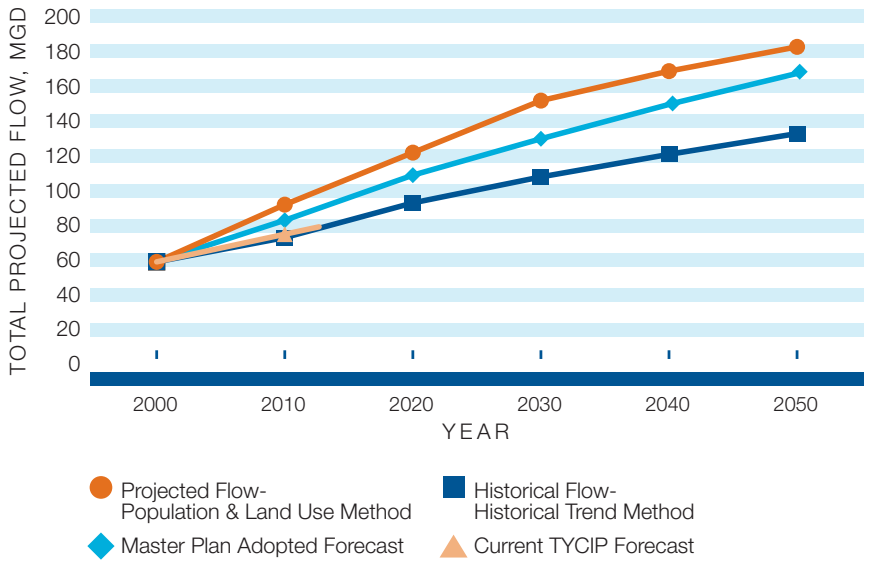
Treatment Plant	FY 2005/2006 Forecast				FY 2015/2016 Forecast			
	Estimated Service Area Flow (Unadjusted)	Adjusted Influent Flow	Capacity	Percent Capacity Utilization	Estimated Service Area Flow (Adjusted)	Adjusted Influent Flow (Unadjusted)	Capacity	Percent Capacity Utilization (Adjusted)
RP-1	39.7	40.7	44.02	93%	44.9	38.5	44.02	88%
RP-4	6.6	5.6	7.0	80%	10.5	13.1	14.0	94%
CCWRF1	9.9	8.8	11.4	77%	11.0	11.0	11.4	96%
RP-2/RP-5	6.1	7.2	15.0	44%	17.6	21.4	27.0	79%
Total	**62.3**	**62.3**	**77.4**	**80%**	**84.1**	**84.1**	**96.4**	**87%**

1 Unadjusted CCWRF service area includes all flow from Montclair Diversion.
2 Capacity rating of 44 mgd is under evaluation due to revised Total Inorganic Nitrogen standard of 8 mg/l.

Fifty-Year Flow Projection

As indicated in Figure 2-1 ("Regional System 50-Year Flow Projections"), wastewater flows have been projected to reach somewhere between a low of 130 mgd to a high of 180 mgd by the year 2050. This projection was developed as part of the comprehensive Wastewater Facilities Master Plan that was adopted in August of 2002. The Master Plan presented 50-year growth projections based on two different methods – the Historical Trend Method and the Population and Land Use Method. In Figure 2-1, the lower curve is based on the "Historical Trend Method" and the higher curve is based on the "Population and Land Use Method."

Figure 2-1: Regional System Fifty-Year Flow Projections



The adopted 50-year forecast in the Master Plan is intermediate between the Historical Trend Method curve and the Population and Land Use Method curve. In comparison, the Contracting Agencies' growth forecasts (Current TYCIP Trend) for the next ten years continues to correspond closely to the Historical Trend Method curve (see Exhibit I).



Regional Wastewater System

Capital Improvement Program Summary

Regional Wastewater System Capital Improvement Program Summary

Overview

The capital improvements planned for the Regional Wastewater System are implemented according to the recommendations in the Agency's adopted Wastewater Facilities Master Plan (WFMP). A basic requirement of the capital improvement program is to keep pace with the needs for wastewater treatment and solids handling capacity based on future growth projections provided by the Contracting Agencies. The adequacy of the capital improvement program is demonstrated by the projected flow and capacity comparisons for individual regional plants presented in Exhibits IV through VII at the end of this report. Adjustments to the forecasted flow curves take into account the Agency's ability to make planned diversions within the system to optimize the use of existing capacity. Capacity-related capital improvements are also indicated on the adjusted flow curves.

Because of forecasted growth, expansion of existing wastewater facilities will be required to treat expected domestic wastewater flows. The increases in regional plant treatment capacity planned for the next ten years to keep pace with the forecasted growth include the following:

- Complete expansion of RP-4 liquids treatment capacity from 7 to 14 mgd in FY 2006/2007 (May 2007),
- Complete expansion of RP-4 liquids & solids treatment capacity from 14 to 21 mgd in FY 2016/2017, and
- Expand RP-5 liquids treatment capacity from 15 to 27 mgd—in FY 2010/2011 based upon current growth trends.

Following the recommendations of the WFMP, the Agency plans to expand RP-4 first to facilitate recycled water use at higher elevations and to expand RP-1 at a later date. This will allow better quality water (lower in salts) to be treated higher in the watershed where it can be utilized for industrial applications, irrigation, and groundwater replenishment. Opportunities for water recycling will be maximized by diversion of wastewater to RP-4 from some portions of CVWD and the City of Fontana now tributary to RP-1. Construction of the San Bernardino Avenue Pump Station and Force Main are part of the WFMP and Ten-Year CIP.

Completion of the eastern RP-1/RP-5 bypass pipeline by June 2006 will help to optimize existing system capacity and defer the need for construction of more RP-1 treatment capacity until beyond the TYCIP window. It will also have odor control benefits at RP-1 by eliminating the need for storing primary-treated wastewater in equalization ponds. The pipeline will be jointly constructed and operated with the City of Ontario and will provide IEUA with at least 9 mgd of capacity that can be used to bypass flow from the RP-1 Service Area to the RP-5 Service Area.

Current growth projections indicate that an expansion of RP-5 may be needed by FY 2010/2011. The 2005 Master Plan Update will analyze the needs for capacity at RP-5 to handle service area flows, as well as bypass flows from other service areas, and solids recycle streams from other facilities.

In addition to providing needed liquids and solids treatment capacity, the TYCIP includes projects to improve energy efficiency and modernize facilities. Many of the projects have multiple benefits, including reduction of the weight of solids, reducing odors and lowering the nitrogen concentration in recycled water. The California Regional Water Quality Control Board, Santa Ana Region is imposing a lower nitrogen limit in new and renewed discharge permits. The TYCIP includes projects to reduce nitrogen at older facilities. When new or expanded facilities are constructed, the basis of design includes the anticipated lower nitrogen limits.

RP-1 Service Area

As indicated in Exhibit IV ("RP-1 Flow Forecast"), the gross service area flow tributary to RP-1 is expected to increase at an average rate of about 0.9 mgd per year over the next ten years. The WFMP projected that approximately 20 mgd of average daily wastewater flow may ultimately need to be bypassed from RP-1 to RP-5 because more wastewater is generated in the RP-1 Service Area than can be accommodated in the planned treatment facilities. The Agency intends to utilize the City of Ontario's master planned trunk sewers for the New Model Colony (i.e., the Eastern Trunk Sewer and the Western Trunk Sewer) to serve this purpose. Completion of the bypass will allow the City of Ontario to phase out the use of their lift stations which now pump wastewater to RP-1 from areas of the City that cannot gravity flow to RP-1. The Eastern Trunk Sewer portion of the RP1/RP-5 Bypass is expected to be completed by June 2006. The City of Ontario and IEUA entered into a joint use agreement by which they share the costs of design and construction and IEUA is guaranteed at least 9 mgd of average daily flow capacity in the trunk sewer.

The Bypass will also be utilized to facilitate odor control at RP-1. Through bypassing a portion of RP-1's peak dry weather flow, it will be possible to reduce or eliminate the need for storage of primary effluent in the large, on-site primary effluent equalization basins at RP-1, except during wet weather. The storage of primary effluent generates odors, and the Agency plans to reduce the need for primary effluent storage by bypassing the peak daily flows to RP-5 during dry weather.

The adjusted RP-1 flow projection in Exhibit IV includes bypassing 2 mgd from RP-1 to RP-5 for odor control. Also included is bypassing another 3.6 mgd as the City of Ontario phases out the use of lift stations that now pump wastewater to RP-1. It is expected that wastewater pumped by at least three of the City's lift stations will begin to flow by gravity to RP-5 through the Eastern Trunk Sewer and Kimball Interceptor in FY 2007/2008. By the end of the ten-year period, two more lift stations could be eliminated. In addition, in FY 2008/2009, with the completion of the first expansion of RP-4 and the San Bernardino Avenue Pump Station and Force Main, it is forecasted that at least 4 mgd will be diverted from RP-1 to RP-4.

The WFMP recommended process upgrades at RP-1 to cost-effectively maintain or increase treatment process performance and capacity as lower nitrogen limits take effect. A major project which was outlined in the WFMP, "RP-1 Secondary Treatment System Modifications/Install Blower #4," is scheduled to be designed and constructed between FY 2005/2006 and FY 2009/2010. The project will increase nitrogen removal while maintaining or increasing plant capacity. The TYCIP also includes a smaller aeration capacity and side stream treatment project, including: "RP-1 Filtrate Treatment Expansion," which is scheduled to be completed in FY 2014/2015. The filtrate treatment expansion project will enable the solids dewatering filtrate to be recycled in-plant without adversely affecting the plant's ability to meet nitrogen limits. Currently, the filtrate is discharged to the non-reclaimable wastewater system with minimal treatment, but the Agency must pay for the pounds of pollutants (BOD and TSS) discharged. Recycling in the plant will save those costs and take advantage of excess secondary treatment capacity.

The Ten-Year Program includes several odor reduction projects at RP-1 that will provide comprehensive odor control in phases. The Phase 1A project (construction began in FY 2004/2005 and was completed in January 2006) includes most of the solids handling areas of the plant. Phase 1B (construction to begin in FY 2005/2006) includes the plant headworks, grit and screenings area, and rectangular primary clarifiers. The equalization project will not begin until FY 2014/2015, since the odors from the equalization basins can be controlled on an interim basis by discharging peak flows to the RP-1/RP-5 Bypass line. This approach was developed in the WFMP.

There are also several solids handling projects planned for RP-1. These projects will automate the dewatering building, replace the belt filter presses with centrifuges, increase dewatered solids storage hopper capacity, and improve the dewatered solids conveyance and truck loading system. These improvements will reduce labor, energy, and hauling costs associated with the dewatering operations. Improvements to the 3-phase digesters and digester gas storage system commenced in FY2004/2005.

The RP-1 capital projects are summarized in Table 3-1 below:

This Ten-Year Program is similar to last year's program for the RP-1 Service Area, with a few exceptions. Some of the major differences this year are the Dewatering Facilities Expansion, The Tertiary Filter Expansion, and The Filtrate Treatment Expansion.

Table 3-1: RP-1 Service Area — Major Capital Projects

Project	Fiscal Year Scheduled Completion	Ten-Year Cost (in Million Dollars)
Upland Interceptor Relief Sewer—Phase II	2007/2008	$14.3
RP-1 Dewatering Facilities Expansion	2007/2008	$10.0
RP-1 Solids, Digester, and Gas System Improvements	2014/2015	$9.9
RP-1 Modernization	2014/2015	$4.4
RP-1 Tertiary Filter Expansion	2014/2015	$3.8
RP-1 Filtrate Treatment Expansion	2014/2015	$3.8
RP-1 Odor Control—Phase I	2005/2006	$3.3
RP-1 Cogeneration Fac Expansion	2006/2007	$1.5
RP-1 Secondary Flow Equalization System	2014/2015	$1.0
RP-3/Declez Park	2007/2008	$2.0
Total—Major RP-1 Projects		**$55.1**
Total—All RP-1 Projects		**$69.1**

RP-4 Service Area

As indicated in Exhibit V ("RP-4 Flow Forecast"), the RP-4 service area wastewater flow is expected to increase at an average rate of about 0.5 mgd per year over the next ten years. RP-4 will need to be expanded from 7.0 to 14.0 mgd by FY 2007/2008 and then from 14.0 to 21.0 mgd by FY 2016/2017 (outside the TYCIP) to keep up with projected growth. While construction is occurring at RP-4, some flow will be diverted to RP-1 through the Etiwanda Interceptor.

This Ten-Year Plan includes design and construction of the San Bernardino Avenue Interceptor, Pump Station and Force Main facilities coinciding with completion of the RP-4 expansion to 14 mgd. The City of Fontana will construct a new gravity sewer and divert a portion of the wastewater originating north of San Bernardino Avenue away from the Fontana Interceptor toward the intersection of San Bernardino Avenue and the San Sevaine Wash. (Currently, this wastewater flows by gravity through the Fontana Interceptor to RP-1). A pump station and force main will then be constructed by IEUA from the San Sevaine Wash to RP-4, where the wastewater will be treated and recycled.

The adjusted RP-4 flow forecast in Exhibit V indicates that RP-4 may be approaching full capacity at the end of FY 2011/2012. Bypassing of up to 6 mgd to RP-1 is possible using the Etiwanda Interceptor. To avoid bypassing wastewater flow, a second expansion of RP-4 is needed in FY 2016/2017. This expansion is consistent with the WFMP, which projected that a second expansion of RP-4 would be needed before the year 2020.

The RP-4 capital projects are summarized in Table 3-2 below:

Table 3-2: RP-4 Service Area — Major Capital Projects

Project	Scheduled Completion	Ten-Year Cost (in Million Dollars)
RP-4 Liquids Expansion to14 MGD	Fiscal Year 2007/2008	$30.5
San Bernardino Ave Pump Station/Force Main	Fiscal Year 2008/2009	$13.3
RP-4 Land Acquisition	Fiscal Year 2011/2012	$ 4.2
Total—Major RP-4 Projects		**$40.8**
Total—All RP-4 Projects		**$44.8**

For the RP-4 service area, this Ten-Year Program is similar to last year's program with one exception. The projected expenditures decreased because the RP-4 liquids expansion project from 14 to 21 mgd now falls outside the ten-year window.

CCWRF Service Area

Exhibit VI depicts the CCWRF historical flow rates and flow forecast. For the past few years, essentially all of the flow from the Montclair Diversion has been directed to CCWRF rather than RP-1 to avoid pumping costs. In mid-FY 2003/2004, just before the completion of RP-5, CCWRF was close to 100 percent of capacity and a small amount of Montclair Diversion flow was pumped to RP-1 or bypassed to RP-2. With RP-5 in operation, it is possible to balance flows operationally between CCWRF and RP-5 using the Chino Interceptor as a bypass line. It is expected that about 1.1 mgd will be bypassed from CCWRF to RP-5 until FY 2007/2008, when the CCWRF Tertiary Filter and Contact Tank Expansion/Upgrade project is completed.

Over the next ten years, the unadjusted service area flow tributary to CCWRF is expected to increase at an average rate of under 0.1 mgd per year. At this rate, it will not be necessary to expand CCWRF during the next ten years. This forecast is consistent with the WFMP, which projected the need to expand CCWRF to between 15 and 20 mgd between the years 2020 and 2030.

An additional 1.2 mgd of capacity became available at CCWRF in March 2004 when the Agency began sending the solids handling recycle streams generated at RP-2 to RP-5 instead of to CCWRF. The discharge permit for CCWRF allows 11.4 mgd to be treated at the facility. With the recycle flow eliminated from CCWRF, the available capacity for treating service area flow at CCWRF is 11.4 mgd.

The CCWRF capital projects are summarized in Table 3-3 below. The Ten-Year Plan includes a project to expand the tertiary filters and chlorine contact tanks to maintain the current 11.4 mgd of capacity while satisfying the current Title 22 design standards for water recycling plants. In addition, the Ten-Year Plan includes modification of the aeration system at CCWRF to increase energy efficiency and improve recycled water quality. The other major project is an expansion of the recycled water storage reservoir at CCWRF to better match recycled water availability to diurnal demand fluctuations. This year's Ten-Year Plan for CCWRF is similar to last year's plan.

Table 3-3: CCWRF Service Area — Major Capital Projects

Project	Scheduled Completion	Ten-Year Cost (in Million Dollars)
CCWRF Tertiary Filters and Contact Tank Expansion	Fiscal Year 2007/2008	$7.0
CCWRF Aeration System Modification	Fiscal Year 2006/2007	$3.1
Total—Major CCWRF Projects		**$10.1**
Total—All CCWRF Projects		**$13.1**

RP-2/RP-5 Service Area

Exhibit VII depicts the RP-2/RP-5 historical flow rates and flow forecast. Historically, much of the tributary area to RP-2 was unsewered agricultural and open space. The flow from the service area is expected to increase sharply in the next few years due to annexation, development, and sewering of those areas. Completion of the RP-1/RP-5 Bypass will bring more flow into the Regional System. The RP-5 unadjusted service area flow is projected to increase at an average rate of about 0.5 mgd per year. At the end of the ten-year period, the gross service area flow to RP-5 will be about 10.6 mgd. An additional 5.8 mgd will be bypassed to RP-5 from areas now tributary to RP-1. This includes 3.8 mgd from City of Ontario lift stations that will be retired when the RP-1/RP-5 Bypass is completed; and 2.0 mgd of diurnal peak flows from the RP-1 Equalization Basins.

The total adjusted influent flow rate to RP-5 may be as high as 16.4 mgd by the end of the ten years. The current total plant capacity is 15.0 mgd and current flow projections indicate that an expansion of RP-5 would be needed in the second half of the ten-year planning period. This is consistent with the WFMP, which projected the need for an expansion at RP-5 by the year 2010. This Ten-Year Plan includes an expansion from 15 to 27 mgd. The project is scheduled to begin in FY 2005/2006 and be completed in FY 2013/2014. This schedule may be adjusted depending on actual growth over the next few years.

The RP-2 and RP-5 capital projects are summarized in Table 3-4 below. This Ten-Year Plan includes a project for decommissioning the liquids treatment systems at RP-2. Equipment will be salvaged, reused elsewhere, or stored as appropriate. The RP-2 solids treatment systems will continue to handle the solids from RP-5 and CCWRF. Some solids handling improvements at RP-2 are provided in this Ten-Year Plan. Eventually, when the solids handling capacity at RP-2 is exceeded or the RP-2 facilities reach the end of their useful life, the Agency intends to construct new solids handling facilities at RP-5. However, this is not planned for ten to twenty years. RP-2 has enough solids handling capacity for 30 mgd of wastewater flow, whereas the combined flows at RP-5 and CCWRF will only be about 26 mgd at the end of the ten-year period. In addition the grant funded RP-5 Renewable Energy Digesters (Dairy Digesters) will be used for municipal solids handling in the future (probably by 2015).

Table 3-4: RP-2/RP-5 Service Area —Major Capital Projects

Project	Fiscal Year Scheduled Completion	Ten-Year Cost (in Million Dollars)
RP-5 Expansion to 27 MGD	2010/2011	$66.0
RP-1/RP-5 Bypass (East)	2007/2008	$22.5
RP-5 Renewable Energy Generation Efficiency Project	2006/2007	$19.5
RP-5 System Facility Upgrade & Improvement	2007/2008	$7.7
RP-5 Warehouse/Maintenance Facility	2014/2015	$6.0
Chino Creek Master Plan/Wetlands Project	2006/2007	$3.9
Chino Creek Park	2007/2008	$3.6
RP-2 Dewatered Cake Storage System	2008/2009	$3.3
Complete Mix Digestion Technology	2006/2007	$2.6
RP-2 Decommissioning	2010/2011	$1.8
RP-5/CCW Chlorine Tank Covers	2010/2011	$1.3
Total—Major RP-2/RP-5 Projects		**$148.6**
Total—All RP-2/RP-5 Projects		**$155.6**

The RP-5 Renewable Energy Generation Efficiency Project will be designed and constructed at the RP-5 Renewable Energy Facility to reduce the Agency' purchase of electrical power and advance the development of renewable energy through the use of both conventional and innovative power generation equipment. The design process will incorporate the use of biogas derived from manure digesters and wastewater plant digesters, as well as natural gas, and will investigate waste heat recovery and thermal ice storage.

The Complete-Mix Anaerobic Manure Digester project will demonstrate the application of complete-mix digestion technology for the processing of manure generated by dairies in the Agency's service area. It will provide an alternative to the plug-flow digestion technology that has been demonstrated by the Agency's RP-5 Renewable Energy Digester Facility. This project will produce energy from methane gas that will be used by the Agency's regional water recycling facilities and local groundwater desalination facilities. The Complete-Mix Anaerobic Manure Digester is planned to be designed and constructed in FY 2005/2006 through FY 2006/2007.

The TYCIP also includes a project to expand and modify the existing RP-5 Renewable Energy Digester Facility. Improvements within the facility are expected to expand the digester's capacity from 225 wet tons per day to 315 wet tons per day and to generate additional digester gas which will be used to power Agency facilities. The Agency successfully tested digestion of food wastes at the RP-5 Renewable Energy Digester Facility. The expansion and modification projects for the RP-5 Renewable Energy Digester Facility include facilities to introduce food wastes in the digesters to enhance biogas production and improve the overall economics of the project.

This Ten-Year Plan also provides for completion of the site improvements around the new RP5/Headquarters complex. The Agency plans to complete the Chino Creek Park environmental restoration project which will provide stormwater management for the complex and utilize recycled water for ecosystem restoration as well as providing recreational benefits to the community. The major projects planned for the RP-5 treatment plant site are a warehouse/maintenance facility; perimeter walls, street improvements and access ways; and general land restoration and property development for the vacant and leased land around the site. The Agency also plans to prepare a Master Plan for Chino Creek, which receives effluent from two water recycling plants – RP-5 and CCWRF. The Chino Creek Master Plan will address how the stream can be modified, restored, and enhanced, emphasizing natural features and wetlands to improve water quality while meeting multiple objectives, such as flood control, habitat development, and recreation. Related to the Chino Creek Master Plan, there is a study to determine future uses of the RP-2 site including, possibly, urban runoff treatment or dairy waste/runoff treatment.





Recycled Water
Capital Improvement Program

Recycled Water Capital Improvement Program

The Recycled Water Program has been developed to be consistent with the recommendations of the IEUA Recycled Water System Feasibility Study, completed in 2002, and the 2005 Regional Recycled Water Program Implementation Plan. The Agency plans to construct a fully-integrated regional distribution system that will deliver recycled water to major industrial and municipal users and to groundwater recharge basins.

Background

IEUA has been serving recycled water since the beginning of the Regional Contract in 1972. Initially recycled water was delivered to Whispering Lakes Golf Course and Westwind Park in Ontario and Prado Park and Golf Course. In the early 1990's IEUA planned and build the first phase of the Carbon Canyon Recycled Water Project which now serves several customers in Chino and Chino Hills.

IEUA also initiated planning of a regional recycled water delivery system. This planning effort culminated with the completion of the IEUA Regional Recycled Water Program Feasibility Study in January 2002. The Feasibility Study identifies facilities to deliver over 70,000 acre-feet of recycled water per year (AFY) to customers and recharge sites throughout the service area. In 2004, IEUA initiated development of the Regional Recycled Water Program Implementation Plan which updated information from the 2002 report. The Implementation Plan identifies additional future recycled water demand, primarily in the developing areas of Chino and Ontario increasing the total deliveries to approximately 93,000 acre-feet per year. The plan identifies a phased implementation over the next ten years with provision for additional expansion beyond the ten year planning horizon. The estimated cost of the facilities planned for the next ten years is $118 million to be funded by a combination of state and federal grants, state low-interest loans, MWD LRP rebates and Regional Program funds. The actual schedule of implementation will depend on the availability of grant funding. The following are significant events leading up to the 2004 Implementation Plan that was completed in 2005:

- 1972 Regional Contract , IEUA begins delivery of recycled water
- 1993 Recycled Water Master Plan
- 1995 Carbon Canyon Recycled Water System Plan
- 1998 Carbon Canyon Recycled Water System Initial Deliveries
- 2001 Recycled Water Facilities Planning Study
- 2002 Regional Recycled Water Program Feasibility Study
- 2002 Program EIR
- 2003 SWRCB Grant ($5 million) Loan ($22 million) Approved
- 2003 Initiate Construction of Phase I Facilities
- 2004 Regional Recycled Water Program Implementation Plan
- 2004 Initiate Design of Phase II Facilities.

Regional Recycled Water Program

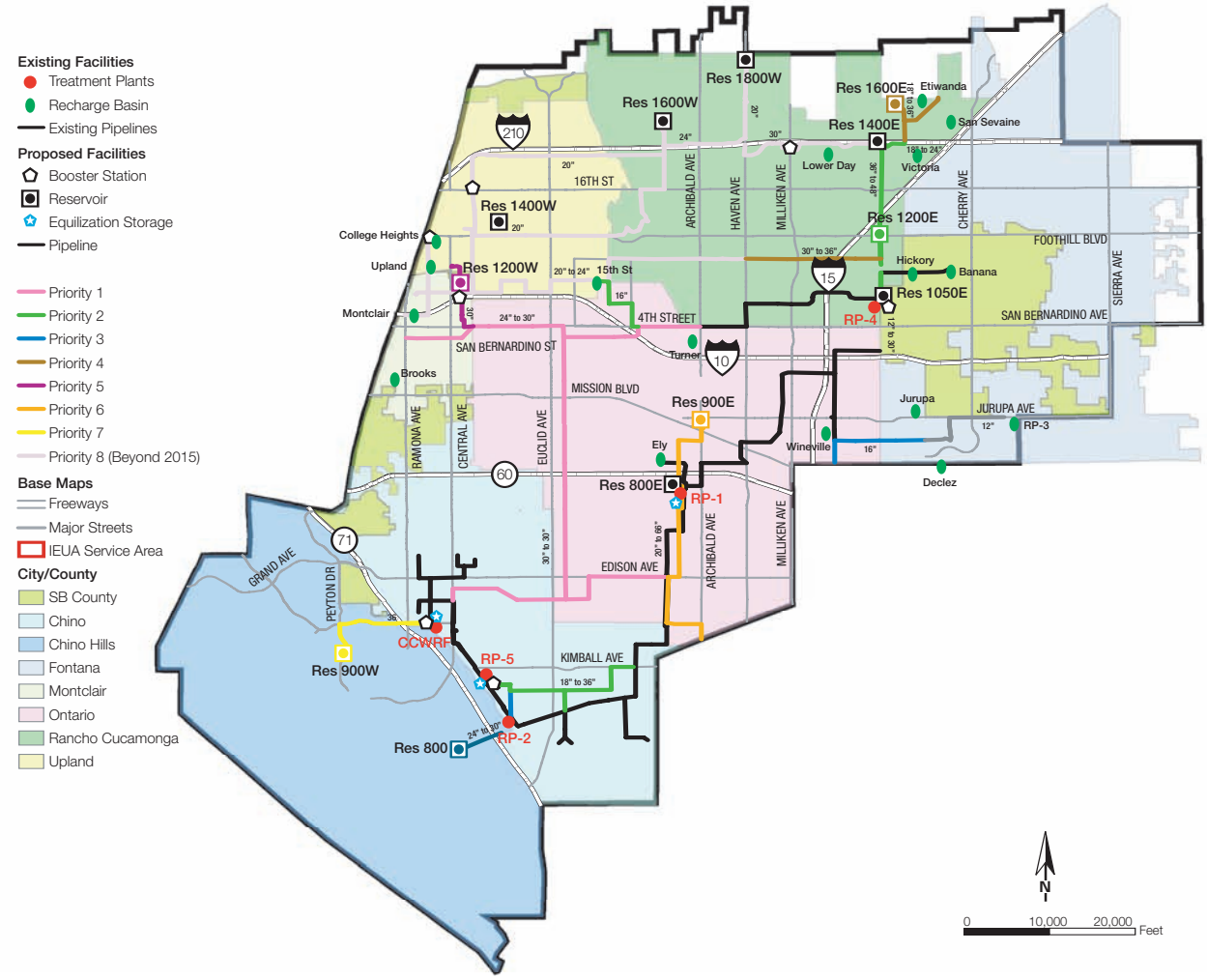
The 2002 Feasibility Study and 2004 Implementation Plan included an assessment of the potential recycled water customers within the IEUA service area. Staff worked with the regional agencies to identify over 1,900 potential customers. This information was used to plan the regional and local recycled water distribution pipelines. Pipeline locations were selected to provide recycled water to the largest customers or groups of customers resulting in cost effective facilities. Ultimately, this distribution system layout will serve over 1,200 of the largest customers and supply over 93,000 AFY, which includes 33,800 AFY for recharge.

Regional Recycled Water Priorities

In September 2000, the IEUA Board and Regional Technical and Policy Committees adopted a recycled water policy document which defines the roles and responsibilities of IEUA and the Regional Contracting Agencies for the construction and ownership of the regional and local facilities. Regional facilities are defined as facilities, pipelines, pump stations, and reservoirs which serve recycled water to a recharge site or to more than one Contracting Agency. Regional facilities will be constructed and owned by IEUA. Local facilities will deliver recycled water from the regional facilities to customers within a Contracting Agencies service area and will be the responsibility of the respective agency. Local facilities will primarily be pipelines (local laterals) and may also include some pump stations and reservoirs. In 2005, this policy will be updated to include provisions for: regional funding of local storage facilities which reduce regional storage needs; provision for reimbursement of regional facilities constructed by others (local agency or developer); and financing of local facilities and customer on-site retrofits.

The Regional Recycled Water Priorities consist of a looped pipeline system which connects all four Regional Water Recycling Plants. Future satellite plants, identified in the Wastewater Master Plan, will also be connected to the regional facilities. The regional facilities have been described in over 50 separate projects of pipelines, pump stations and reservoirs. These projects have been grouped into priorities. The priority of each phase was determined based on the amount of recycled water each phase could serve and the proximity of each phase to one of the plants or existing recycled water supply. Phase I and II of the program will deliver recycled water to most of the recharge sites since the recharge sites represent a significant recycled water use. The Regional Recycled Water Program Priorities are shown in Figure 4-1.

Figure 4-1: IEUA Regional Recycled Water Program Priorities



Local Recycled Water Facilities

As described above, local recycled water facilities are those which serve only one contracting agency. Each local agency is responsible for the planning, design, construction, and operation of local laterals within their service area. IEUA staff is working closely with each agency to coordinate their recycled water planning efforts. In order to assist the local agencies with the implementation of their recycled water systems IEUA is providing technical assistance and, if requested, financing of the local agencies facilities. Funds for this financing are in IEUA's budget and Ten Year Capital Improvement Plan (TYCIP), however, the amount of funding will depend on the agencies needs. A similar financing was used for the construction of the Carbon Canyon Recycled Water Project in the 1990's.

Regional Recycled Water Program Summary

Recent Completed Activities:

• Program Planning	Feasibility Study 2002
• Environmental Documentation	PEIR 2002
• Phase I Funding	SWRCB 2003
• MWD LPP Rebate Agreement	Amended 2003
• New Customer Connections	12 in 2004
• DHS Recharge Permit	Public Hearing 2003
• RWQCB Basin Plan Amendment	Approved February 2004
• Customer Technical Assistance Contracts	July 2004
• Phase II Design Contract	June 2004
• DWR $9 million Grant	September 2004
• Phase I Design Complete	September 2004

Current / Near Term Status as of June 2006:

• Phase I Construction	Complete
• Phase II Funding	
- SWRCB Grant & Loan	SWRCB Approved ($25 million)
- USBR Grant	Congressional ($1 million grant)
• Customer Marketing Package	April 2005
• DHS and RWQCB Recharge Permit (Phase I)	April 2005
• DHS and RWQCB Recharge Permit (Phase II)	August 2006
• New Customer Connections (5 totaling 2900 AFY)	June 2006
• Recycled Sales	$12,000 AF/Y (FY 2005-2006)

Current TYCIP

The Recycled Water Capital Improvement (WC) Fund tracks the revenues and expenses associated with the development of the Agency's Recycled Water Program. Exhibit IX indicates that the total remaining ten-year budget for Recycled Water Capital Improvement Program projects ("Work in Progress") is $118 million for work planned in FY 2006/2007 through FY 2015/2016. As summarized in Table 4-3, the current Ten-Year Program includes 12 recycled water pipeline projects (5 more have been completed). The budget also includes $5.5 million for land for recycled water projects and $1.7 million for other costs, such as Program Administration/Planning and Technical Assistance for Marketing. The construction program is phased so that the most cost-effective projects can be brought on-line first.

Table 4-1: Recycled Water (WC) Capital Improvement Program-Major Projects

Project	Ten-Year Cost (in Million Dollars)
Recycled Water Pipeline Projects	$96.8
Land for Phase II Recycled Water Projects	$5.5
Total—Major WC Projects	**$102.3**
Total—All WC Projects	**$108.0**

Funding

Implementation of the Regional Recycled Water Program has been planned and scheduled with the use of state and federal grant funds and State Revolving Fund low interest loans to minimize use of regional capital funds. The following funding goals have been identified:

Recycled Water Program Ten Year Capital Expenditures	***$118 million***
• Regional Capital Funds	$7-14 million
• State Grants (SWRCB, DWR)	$10 million
• Federal Grants (USBR)	$20 million
• SWRCB Loans	$81 million

Funding Status

SWRCB– To date IEUA has received funding contracts from the SWRCB for $5 million in grant funds (SWRCB caps grants at $5 million) and up to $22 million in SRF loans for Phase I. In March 2006 IEUA received funding approval from SWRCB for Phase II projects. IEUA has approval of $4 million in grant funds and up to $14 million in SRF loans for the Phase II projects.

Federal Funding (USBR)– IEUA is also working with our congressional representatives to obtain federal grant funds through the U.S. Bureau of Reclamation. In 2005, IEUA received a federal appropriation of $1 million for the recycled water program and is actively seeking additional appropriations over the next 3-5 years up to $20 million.

DWR– In 2003 IEUA and Chino Basin Watermaster submitted an application to the Department of Water Resources for Proposition 50 grant funds for: conjunctive use, recharge improvements and recycled water facilities. A total of $15 million is anticipated for these programs, $10.5 million for recycled water facilities. These funds will be used for the Edison Avenue Pipeline and the extension of the Wineville Avenue Pipeline, the first of the Phase III projects. The Edison Avenue Pipeline will interconnect RP-1 with the Carbon Canyon Recycled Water System and serve a significant agricultural demand in the near term and landscape irrigation demand as the area develops. The extension of the Wineville Avenue Pipeline will provide recycled water to industrial users in Ontario and Fontana including several commercial laundries.

Permitting

Several regulatory and environmental permits and approvals are required to implement the Regional Recycled Water Program and deliver recycled water. IEUA has made significant progress and has completed many of the regulatory requirements. The following are the regulatory requirements and the current status:

- **CEQA–** IEUA certified a Programmatic EIR in June 2002 which included IEUA's Wastewater Master Plan, Organics Management Business Plan and the Regional Recycled Water Program. Supplements to the Programmatic EIR are prepared, when necessary, as specific project elements are better defined during each project design,
- Chino Basin Watermaster Article X approval for groundwater recharge is required under Watermaster's rules and regulations. IEUA obtained Watemaster's approval for the recharge of up to 33,000 AFY in 2002,
- **Basin Plan Amendment–** In order to recharge recycled water in the Chino Groundwater Basin IEUA and Watermaster prepared a Maximum Benefit Concept Proposal to the Santa Ana Regional Water Quality Control Board for the basin plan amendment. The proposal was approved by the RWQCB and incorporated into the basin plan amendment in February 2004. The State Water Resources Control Board approved the basin plan amendment in September 2004. The incorporation of "Maximum Benefit" into a basin plan is unprecedented in the state,
- **RWQCB Waste Discharge Requirements and NPDES permit for direct reuse–** All of IEUA's Water Recycling Plants have existing permits from the RWQCB for recycled water deliveries for direct reuse customers, i.e. irrigation, industrial, recreational impoundments. On a quarterly basis IEUA reports new customers connected to the recycled water system and recycled water use for each customer,
- **DHS Title 22 Engineering Report–** In order to assure that recycled water is not "cross-connected" to any potable water system the California Department of Health Services requires an engineering report which identifies the potable and non-potable plumbing systems for each recycled water customer,

- **DHS Title 22 Engineering Report for Groundwater Recharge–** Prior to recharge of recycled water an engineering report is required. The report is reviewed by DHS and a public hearing is required to solicit comments. IEUA prepared and submitted the Title 22 Engineering report for the seven recharge basins served by the Phase I facilities. A public hearing was held in December 2003 and several supportive letters and comments were provided. DHS with IEUA's assistance has prepared their findings which are submitted to the RWQCB for incorporation into a permit for recycled water recharge, and in April 2006 a final draft of public hearing notice for Chino Basin Phase II facilities recharge permit was submitted to DHS, and
- **RWQCB Permit for Recycled Water Recharge–** The Santa Ana Regional Water Quality Control Board approved the permit for recycled water recharge in April 2005. The RWQCB permit for recycled water recharge for the Phase II basins is expected to be issued by August 2006. The DHS public hearing held in April 2006 received strong support and no opposition.

Summary of Permitting Status

• CEQA	Certified 2002
• CBWB Article X	Approved 2002
• SARWQCB Basin Plan Amendment	Approved 2004
• SARWQCB Discharge Permit	Issued for all plants
• DHS customer retrofits	Approved for connected customers
• DHS/RWQCB recharge approval	
- Ely Basin 2,300 AFY	Approved 1998
- Phase I Recharge 7,700 AFY	April 2005
- Phase II Recharge 17,300 AFY	August 2006

Customer Development

As described above there are over 1,000 potential recycled water customers which can be served by the regional and local recycled water facilities. IEUA is working with the staffs of the local agencies to connect new customers to recycled water. Priority is given to the larger customers, typically over 25 AFY, which can be served immediately or in the near future. Currently there are 30 significant customers in Chino, Chino Hills, Ontario and CVWD which agency and IEUA staff are working with. In some cases a significant effort is required in order to get a customer connected to recycled water, particularly industrial customers and golf courses. These customers initially have concerns related to water quality and impacts on their systems, retrofit costs and the cost of the recycled water.

In order to effectively communicate with recycled water customers and provide a consistent message staff is preparing an updated recycled water marketing packet with the following information:

- Background on recycled water use Nationally and in California
- Overview of IEUA and Regional Recycled Water Program
- Summary of recycled water quality
- Comparison of potable and recycled water rates (specific to each agency)
- Technical assistance available (DHS approval, water quality concerns)
- Financing of on-site retrofit (up to ten years with interest)
- Benefits of using recycled water
  - Drought proof the region (improves reliability of potable supply)
  - Recycled water is not subject to mandatory rationing during drought
  - Recycled water provides regional environmental benefits
  - Cost savings
- Contacts with regional agency and IEUA

In addition to addressing the customers concerns about recycled water use IEUA with the regional agency is preparing the Title 22 engineering reports for each site and coordinates the approval with DHS. Most of these reports have been prepared by staff, however, with the number of new customers and the more complicated industrial sites staff resources will be exceeded. In 2004, five consultant services were selected to prepare the Title 22 engineering reports and to assist marketing recycled water to the potential customers. Due to these efforts, the recycled water demand in FY 2006 doubled from the prior year, from 6000 acre-feet to over 12,000 acre-feet.





Recharge Water
Capital Improvement Program

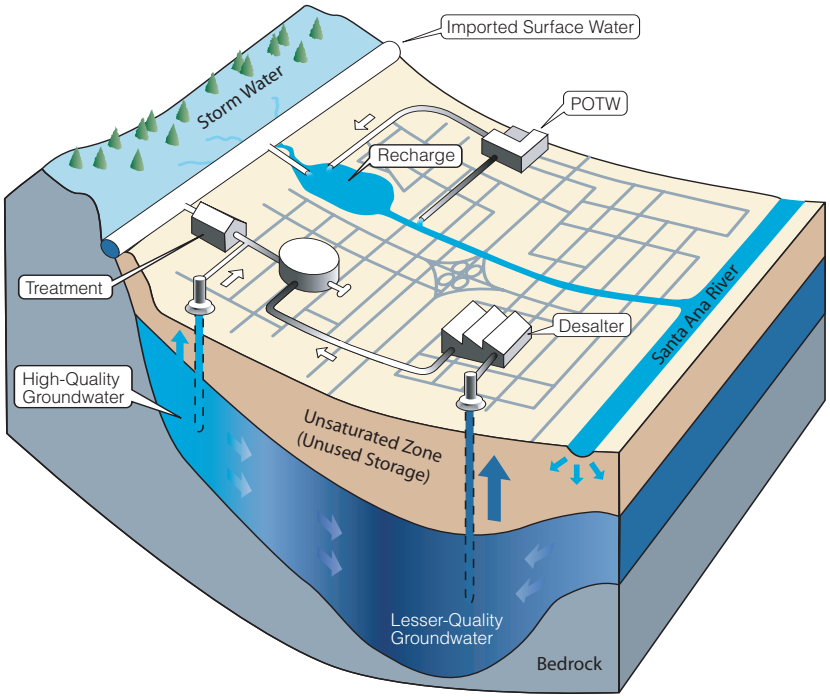
Recharge Water Capital Improvement Program

Background

The Chino Basin Watermaster and IEUA joint recharge program partnership is described in the Chino Basin Watermaster's Optimum Basin Management Program (OBMP) Recharge Master Plan, Phase II Report (August, 2001). It is a comprehensive plan to increase artificial groundwater recharge within Chino Basin using stormwater, recycled water, and imported water. The recharge program is one of the centerpieces of the Chino Basin OBMP, since it is through the development of increased recharge capacity in the Basin that greater quantities of water can be stored and made available during drought resulting in shortages of imported water supply.

Figure 5-1 illustrates in general how the recharge program fits into the overall plan for Chino Basin groundwater management as outlined in the Watermaster's OBMP and the Recharge Master Plan.

Figure 5-1: Storage & Recovery in Chino Basin



In January of 2002, the IEUA Board of Directors approved the Recharge Master Plan Implementation Memorandum of Agreement, between Chino Basin Watermaster, Chino Basin Water Conservation District, San Bernardino County Flood Control District (SBCFCD), and IEUA. Members of these four agencies have formed a Groundwater Recharge Coordinating Committee to implement a $40-million program entitled the Chino Basin Facilities Improvement Program (CBFIP) resulting in construction projects to improve basin recharge facilities. The IEUA is serving as the lead Agency for implementation (design, construction, operation and maintenance) of this cooperative program.

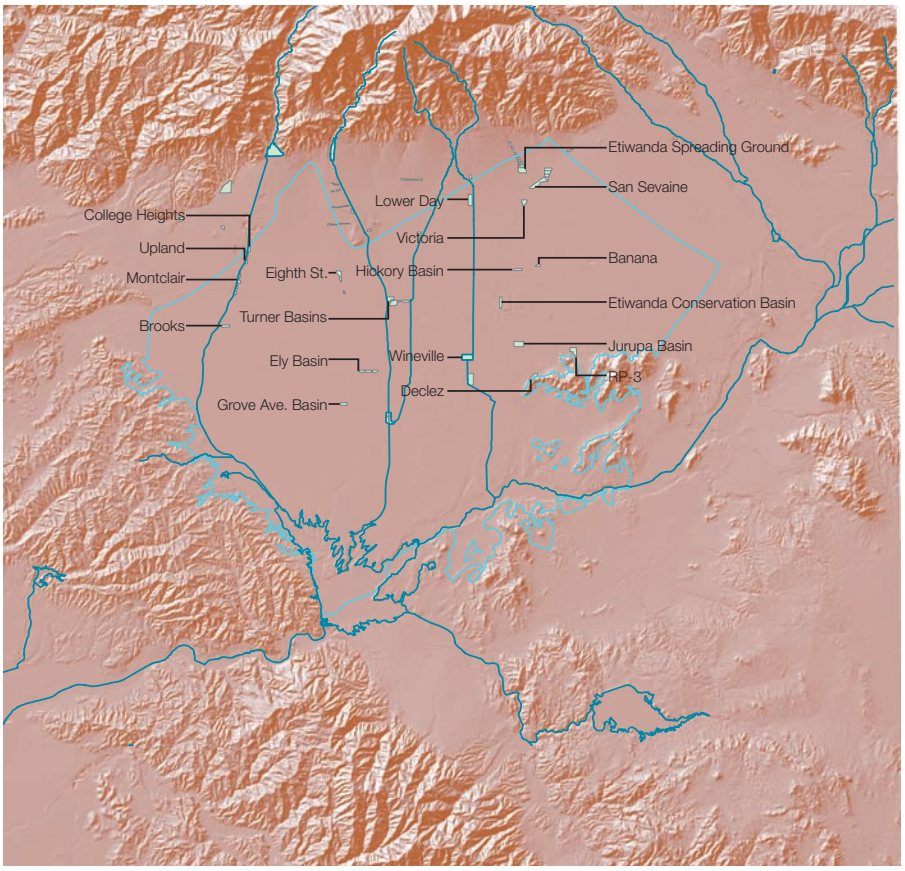
Full implementation of the Recharge Master Plan is anticipated to create 134,000 AFY of improved, plus new recharge capacity in Chino Basin. The recharge water is expected to be made up of:

- 21,000 AFY of stormwater,
- 87,000 AFY of imported water, and
- 26,000 AFY of recycled water from the IEUA's Regional Water Recycling Plants.

Chino Basin Recharge Facilities Improvement Project

The CBFIP is a Groundwater Recharge Program that includes proposed improvements at 18 recharge basin sites, construction of two new sites, with approximately 38 recharge basins. The locations of the recharge sites are shown in Figure 5-2.

Figure 5-2: Chino Basin Recharge Site Locations



Facilities improvements installed in the initial project consist mainly of rubber dams, new or modified basin inlet and outlet structures, earthwork to improve infiltration, pump stations, conveyance facilities, turnouts from either IEUA's Regional Recycled Water Distribution System or MWD's Foothill Feeder, flow metering devices, and a SCADA system. Implementation of the Recharge Master Plan was coordinated with implementation of the IEUA Regional Recycled Water Feasibility Study described in Chapter 4. The phased construction of recycled water pumping and conveyance systems coincided with the improvements to recharge basins necessary to recharge recycled water along with stormwater and imported water.

Additional recharge facilities may be developed in the future and land will be acquired as opportunities arise for recharge basins. The most likely addition in the next ten years is the phased development of the Etiwanda Creek/Etiwanda Conservation Basins Project in the unincorporated area of San Bernardino County on the east side of Etiwanda Avenue near San Bernardino Road. Also important to groundwater replenishment will be the aggressive implementation of stormwater Best Management Practices (BMPs) in new land developments.

Table 5-1: Chino Basin Facilities Improvement Project Bid Packages

Bid Package No.	Description	Construction Cost Estimate	Status
1	Recharge basin improvements at six sites--Banana, College Heights, Lower Day, RP-3, Turner No. 1 Basin, and Turner No. 2, 3, & 4	$8,250,000	Completed
2	Recharge basin improvements at three sites-- Declez Basin, Ely Basins No. 1, 2, & 3, and 8th Street Basins; four rubber dams—College Heights, Lower Day Basin, RP-3 Basins, and Turner Basin No. 1; and three drop inlet structures—Brooks Basin, Turner Basins No. 2, 3, & 4, and Victoria Basin; plus a fourth drop inlet has been added at Victoria Basin.	$7,300,000	Completed
3	Construct a 11,000-foot pipeline in Jurupa Avenue to convey water from Jurupa Basin to RP-3 Basins.	$3,200,000	Completed
4	Construction of Jurupa Basin Pump Station and short sections of pipeline and canal necessary to convey water to pump station. SBCFCD has committed to construct a section of the San Sevaine concrete channel with a drop inlet and pipeline to deliver water to the pump station, including storm water, imported water, and recycled water that will be pumped to the RP-3 Basins and the Declez Basin.	$2,300,000	Completed
5	Installation of SCADA Control and Monitoring System with radio controls to remotely monitor and govern water levels in all the basins and control the drop inlets and rubber dams. Create four remote monitoring sites.	$3,900,000	Completed
6	Redevelopment of two existing MWD Turnouts on the Foothill Feeder line and a new connection on the Etiwanda Intertie.	$1,820,000	Completed
7	Construction of the RP-3 Mitigation site; Hickory Basin manifold, pump station, and berms; Upland Basin & pipeline; completion of Victoria Basin.	$3,800,000	Completed

Table 5-2 outlines the recharge capacity by recharge basin site and the relative source water volumes anticipated to be recharged at each basin site. This recharge program was divided into two phases as necessary to gain recycled water groundwater recharge permitting. Phase 1 basins account for nearly 44,000 AFY and Phase 2 basins account for an additional 87,000 AFY of new or improved recharge capacity. Following the completion of enhancements at the basins identified in this table, the total recharge capacity of the program will reach 134,000 AFY.

The entire interconnected system of recycled water facilities and recharge facilities as it is planned is shown in Figure 5-3.

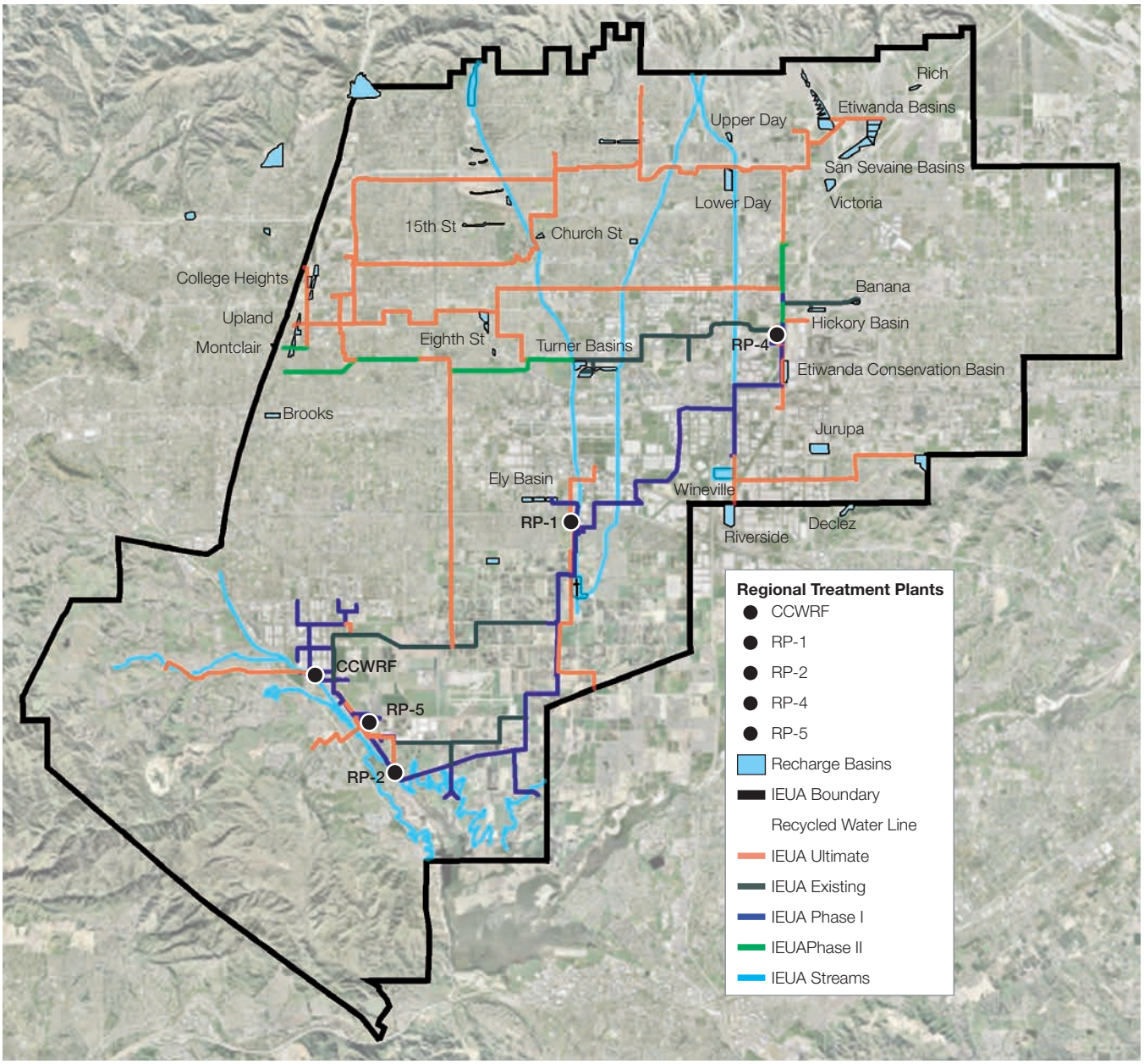
Table 5-2 Chino Basin Potential Source Water Recharge Capacities (Acre-Feet per Year)

Basin Name	Potential Basin Recharge Capacity (AFY)			Total Potential Recharge Capacity (AFY)
	Storm Water	Imported Water	Recycled Water	
Pre-Existing Basins				
Ely Basins[1]	1000	0	2,300	3,300
Phase 1 Recharge Basin Projects				
Banana Basin	800	3,400	1,000	5,200
Declez Basin	300	1,600	500	2,400
Etiwanda Conservation Ponds	1,100	5,300	1,600	8,000
Hickory Basin	900	4,200	1,300	6,400
Jurupa Basin[2]	0	0	0	0
RP-3 Basins	1,700	7,900	2,400	12,000
Turner Basin No. 1	900	1,300	500	2,700
Turner Basins Nos. 2, 3 & 4	1,800	3,800	1,400	7,000
Subtotal Phase 1 Basins	7,500	27,500	8,700	43,700
Phase 2 Recharge Basin Projects				
7th & 8th Street Basins	1,600	2,600	1,100	5,300
Etiwanda Spreading Basins	1,700	7,900	2,400	12,000
Lower Day Basin	500	3,700	1,000	5,200
Brooks Street Basin	1,900	0	5,000	6,900
College Heights Basins	100	7,900	0	8,000
Montclair Basins Nos. 1-4	2,100	9,900	0	12,000
Upland Basin	1,000	8,700	0	9,700
San Sevaine Nos. 1 through 5	2,200	14,500	4,100	20,800
Victoria Basin	1,000	4,700	1,400	7,100
Subtotal Phase 2 Basins	12,100	59,900	15,000	87,000
Total All Program Basins	**20,600**	**87,400**	**26,000**	**134,000**

1 Up to approximately 2,300 AFY of recycled water from RP-1 and RP-4 is currently allowed for recharge at Ely basins. The Ely Basins were in operation prior to the Phase 1 Recharge Project.

2 Jurupa Basin, through geotechnical testing (URS, 2003), is believed to have minimal infiltration benefits. As such, Jurupa Basins is used as a holding basin for water sources pumped to RP3 Basins for recharge or routing to Declez Basin.

Figure 5-3: IEUA Water Recycling and Recharge Facilities



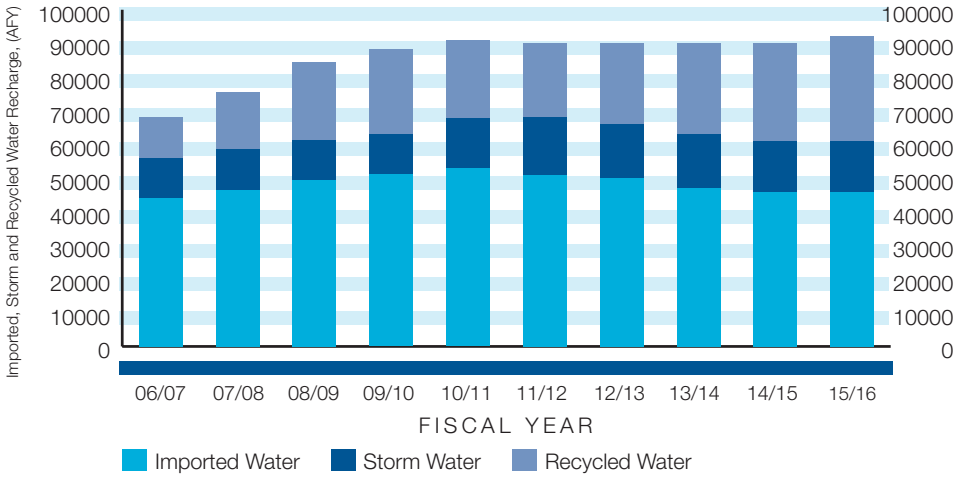
Recycled Water Use For Recharge

Reuse of recycled water for groundwater recharge is a critical component of the OBMP and water supply plans for the region. It will increase the reliability of water supplies during dry years and save $6 million to $9 million per year in imported water costs. The recharge of high-quality recycled water and high-quality imported and storm water sources will allow Chino Basin groundwater quality objectives to be met. Improvements in groundwater quality through recharge will ultimately lower the cost of the Chino Basin Desalter groundwater treatment process.

The schedule for increasing the amount of recycled, storm, and imported water recharged into the Chino Groundwater Basin is illustrated in Figure 5-4.

Eight recharge basins (seven for recharge and one for storage) are permitted as the Phase I of the recycled water recharge program. Recently, IEUA prepared a Title 22 engineering report for Phase 2 of the recycled water recharge program and held a successful public hearing as part of the Phase 2 permitting process. IEUA anticipates receiving another permit for Phase 2 from the California Regional Water Quality Control Board (Santa Ana Region) in summer of 2006. Phase 2 consists of recycled water recharge at 6 basin sites. Two of these recharge sites (Brooks and Eighth Street Basins) are scheduled to have recycled water conveyance facilities in place in 2007. Conveyance facilities for the remaining basin sites should be constructed by 2015.

Figure 5-4: Imported, Storm, and Recycled Water Recharge Schedule



Current TYCIP

As shown in Table 5-3 and discussed below, the main projects in the Recharge Water (RW) Capital Improvement Program are Basin Improvement Projects. These are in turn composed of several sub-projects. Additional projects are needed to enhance the Groundwater Recharge Program. Funding has been sought and obtained from DWR. A total grant of $5.28 million will provide partial financing of the following project components to expand and enhance existing basins: They include:

- Lysimeters and Monitoring Wells: Lysimeters will be constructed to monitor the recycled water quality following soil-aquifer treatment. Groundwater monitoring wells will be constructed to track the movement of recycled water down gradient;
- New/Modified MWD Turnouts: A new MWD turnout on the Rialto Pipeline will be constructed to deliver imported water to basins on West Cucamonga Channel. Modifications to turnouts CB13T and CB14T will expand delivery capacity;
- SCADA System Improvements: Improvements to the SCADA system include adding control features at basins not currently instrumented and improving control features at other basins based on needs identified following initial operations;
- Basin Berm Hardening: Hardening of internal berms will allow stormwater to be captured more reliably in basins by the avoidance of berm washouts during larger storm events;

- Montclair Dual Inlet: A dual inlet to Montclair basins 2 and 3 will allow extended delivery of water to basis during maintenance activities of upstream basins; and
- Wet Basin Cleaning Development: Development of wet basin cleaning equipment will be initiated. Use of developed equipment will reduce down time for basin dewatering, drying, and traditional silt removal methods.

Table 5-3: Recharge Water (RW) Capital Improvement Program, Basin Improvement Projects

Project	Scheduled Completion	Ten-Year Cost (in Million Dollars)
Lysimeters and Monitoring Wells	Fiscal Year 2006/2007	$1.62
New/Modified MWD Turnouts	Fiscal Year 2007/2008	$2.81
SCADA System Improvements	Fiscal Year 2006/2007	$0.81
Basin Berm Hardening	Fiscal Year 2007/2008	$3.32
Montclair Dual Inlet	Fiscal Year 2006/2007	$1.25
Wet Basin Cleaning Development	Fiscal Year 2006/2007	$0.75
Total—RW Projects		**$10.56**







Non-Reclaimable Wastewater System

Capital Improvement Program

Non-Reclaimable Wastewater System Capital Improvement Program

In 2005 IEUA staff, at the request of its Board, developed an Asset Management Program (AMP) to identify and inventory IEUA's major assets, their condition, and plan for capital improvement projects. This chapter discusses ongoing and future projects for the Non-Reclaimable Wastewater System (NRWS) in accordance with this AMP. These projects reflect the IEUA Salinity Management Action Plan of 2002, which calls for maximizing the use of the NRWS and developing a program to reduce the salt impacts from water softeners to IEUA water recycling facilities.

Background

The IEUA owns and operates the NRWS that provides for export of high-salinity and industrial wastewater generated within IEUA service areas to the Pacific Ocean. The wastewater discharged to the NRWS consists mainly of industrial and groundwater treatment brines. It also includes some solids resulted from processing side streams generated within the IEUA's water recycling treatment facilities and some domestic waste from non-sewered areas. The NRWS is physically separated from the Regional Domestic Wastewater System and provides a means for segregating poor quality, saline wastewater and exporting it out of the service area. This improves the quality of the recycled water for local use and helps ensuring that IEUA can comply with the total dissolved solids (TDS) and total nitrogen limits listed in the National Pollutant Discharge Elimination System (NPDES) permits.

For FY 2005/06, the NRWS exports approximately 43,040 tons of salt to the ocean, as summarized below:

FY 2004/2005	MGD	mg/L	Tons/Year (2)
North NRW System	4.63	2,475	17,135
South NRW System	0.64	5,600	5,422
Desalter 1 14 MGD	1.64	4,480	11,035
Desalter 2 10 MGD	1.30 (3)	4,480 (1)	8,743
	8.21 Total	**3,348 Average (4)**	**42,335 Total**

1, 3 - Estimated figures based on design criteria
2 - 360 Discharge days per year are used
4 - Weighted average

The NRWS collection system is comprised of a North and South systems. The North system, which serves approximately 40 industries, conveys wastewater to adjacent interceptor sewer lines owned and operated by the County Sanitation Districts of Los Angeles County (CSDLAC). From there, it is conveyed to CSDLAC's treatment facility in Carson, where it is treated and discharged to the ocean. The South system, which serves approximately 12 industries, conveys wastewater to the Santa Ana Regional Interceptor (SARI) pipeline, owned by the Santa Ana Watershed Project Authority (SAWPA), and from there it is carried to the Orange County Sanitation Districts (OCSD) facility in Fountain Valley for treatment and ocean discharge.

Export of saline and industrial wastewater from the local area in this manner protects the quality of the IEUA's recycled water and is a key element of the Chino Basin Watermaster's Optimum Basin Management Plan (OBMP). Diverting saline wastewater to the NRWS instead of collecting it in the regional wastewater system has reduced the TDS levels in the recycled water by approximately 390 mg/l. It is estimated that diverting most of the existing industrial users with TDS concentrations above 550 mg/l to the NRWS could lower the TDS level of the recycled water by another 8 to 11 mg/l. In addition, reducing salts from residential water softeners could further reduce the TDS level. Future high-TDS industrial users and brine from groundwater desalters should also be diverted to the NRWS in order to avoid raising the TDS level of the recycled water.

NRWS and Salinity Management Action Plan

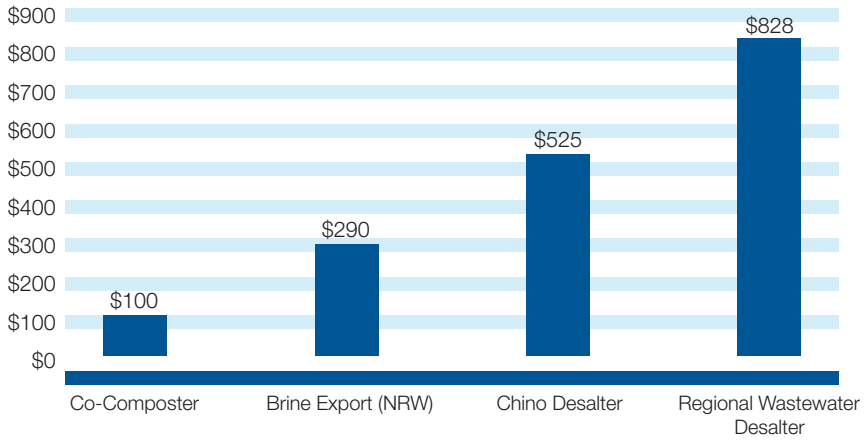
The IEUA developed a Salinity Management Action Plan in 2002 in cooperation with the Regional Technical and Policy Committees. Some of the strategies that were identified to reduce the salinity of recycled water supplies included:

- Maximizing the use of the NRWS,
- Developing a program to reduce the salt impacts of water softeners, and
- Reducing salinity contributions from IEUA water recycling facilities.

A study by Parsons Engineering Science (2000) evaluated the long-term issues and future funding needs for operating and maintaining the NRW system in the most cost-effective manner. Parsons suggested that the most cost-effective strategies for maximizing the use of the NRW system were: (1) diverting more high-salinity wastewater flow from the Regional system to the NRW system, thereby reducing the need for expansion of the Regional system; and (2) melding the NRW user rates and charges with the Regional system, "Regionalization". The study confirmed that utilization of the NRW system minimizes IEUA's treatment costs for salt, as illustrated in Figure 6-1.

In 2003, IEUA in partnership with the Regional Technical and Policy Committees, the Chino Basin Watermaster and the Santa Ana Regional Water Quality Control Board, developed a NRWS Salinity Action Plan to implement strategies to reduce TDS at the IEUA regional water recycling plants and to encourage salt export through optimum utilization of the NRWS consistent with the OBMP. The NRWS Salinity Action Plan is also consistent with the Maximum Benefit Basin Plan, adopted in 2004 by the Santa Ana Regional Water Quality Control Board, which establishes new groundwater TDS and nitrogen water quality objectives. The Plan allows the use of recycled water for groundwater recharge while providing reasonable protection for the groundwater quality in the region. Key commitments in the plan included construction of Chino Desalters, recycled water quality management through industrial waste control, optimum use of the NRWS, reducing the use of water softeners to decrease saline flows into the regional water recycling plants, ion-exchange plants, and groundwater monitoring programs.

Figure 6-1: Relative Costs of Salt Removal from Chino Basin (Dollars per Ton of Salt Removed)



Implementation of the current NRW Salinity Action Plan is expected to achieve substantial avoided costs and valuable benefits for the region. The Plan consists of the following:

- **Water Softener Strategy—** Develop incentives, public education materials and model ordinances to reduce the salt impacts of water softeners. In FY 2005/06, a pilot incentive program for replacement of inefficient water softeners was created. In addition, sources of TDS entering the Carbon Canyon Water Recycling Facility were characterized. In FY 2006/07, the water softener replacement incentive program will be implemented throughout IEUA's service area. The budget for the program is $250,000 per year using the Wastewater Collection, Treatment, and Disposal (RC) Fund. (Status: in progress),

- **Buyback Agreement with CSDLAC—** IEUA relinquished 3 MGD of owned capacity in the NRWS to LACSD in April 2004. This action has lowered annual payments to CSDLAC by approximately 23% or $350,000 annually. The savings will be passed on to NRWS customers through more favorable rates and charges. This transaction encourages the use of the NRWS by new and existing industries to discharge their saline effluent and increase the salt export. (Status: completed),
- **Implementation of the Maximum Benefit Basin Plan—** Ensuring compliance with the Maximum Benefit requirements and with the Memorandum of Understanding with the Orange County Water District and Regional Board. A monitoring work plan has been developed with Chino Basin Watermaster. The regional wastewater pretreatment requirements for TDS have been evaluated and local limits have been set. Reports on the salt balance are prepared annually through Chino Basin Watermaster. (Status: ongoing),
- **MWD Dry Year Yield Conjunctive Use Ion-Exchange Projects—** Construct connections to the NRW system (IEUA implementation responsibility) in conjunction with Upland, Monte Vista Water District, Chino, and Chino Hills for several proposed ion exchange projects. These projects will improve the water quality in the groundwater basin and improve its yield, especially during dry years, through participation in a conjunctive use program with MWD. (Status: in progress),
- **NRWS "Pass-Through" Rates—** IEUA adopted pass-through rates and budget impact analysis for existing industrial customers in 2004. The purpose is to pass-through charges from LACSD and SAWPA to industrial customers for using the NRWS, with addition of only minimal charges to cover the IEUA administrative expenses. This action encourages the export of salts from the Chino Basin by connecting more industries to the NRWS. The pass-through rate will be updated by June 2006 (Status: in progress),
- **Chino Desalter "SARI" Capacity Alternatives—** In April 2004, IEUA reached an agreement with Chino Desalter Authority (CDA) to sell IEUA owned SARI capacity to the CDA to handle the brine waste from the Chino I Desalter Expansion and the future Chino II Desalter. The revenue from this sale transaction was $14.25 million. Approximately $4.73 million from the sale was deposited into IEUA's Regional Capital Improvement Fund and $9.51 million was deposited into the NRWS Capital Improvement Fund (Status: completed), and
- **Leasing of Temporary SARI Capacity to Lewis Operating Company—** IEUA entered into agreement with Lewis Operating Company (LOC) to lease a portion of the SARI capacity for their Chino Preserve Expansion. IEUA has made this lease available to LOC until the City of Chino has completed the design and construction of the Pine Ave. Interceptor Sewer. Once the construction of the Pine Ave. Interceptor is completed, the California Institute for Women will stop discharging to the SARI and start discharging to the Pine Ave. Interceptor, which will flow to IEUA Regional Plant No. 5 (Status: in progress)

Economic Benefits of the NRWS and Salinity Management Action Plan

IEUA expects to achieve substantial avoided costs as well as benefits for the service area by implementation of the NRWS Action Plan. The IEUA will avoid the cost of treating non-reclaimable industrial wastewater at IEUA's water recycling plants, which would require additional secondary and tertiary treatment capacity to handle the flow plus desalination facilities to remove TDS. A resulting economic benefit to IEUA is the ability to use 20,000 to 25,000 acre-feet per year of recycled water for groundwater recharge instead of more expensive imported water. IEUA expects to avoid an estimated $430 million in future costs over the next ten years as a result of the full implementation of the NRW Salinity Action Plan. These avoided costs are summarized in Table 6-1.

Table 6.1 Cost Avoided by NRW Major Action Plan

Action Avoided	Estimated Future Cost Avoided
Construction & Operation of Desalination Facilities at Regional Plants	$250 million
Construction of Secondary and Tertiary Treatment Facilities at Regional Plants for 15 mgd ($8 per gpd including solids handling)	$120 million
Purchase Imported Water for Recharge to Replace 20,000 AFY Recycled Water	$6 million/year
Total Net Economic Benefits Over Ten Years	**$376 million**

There will also be additional revenues from the sale of unused capacity, either: (1) as part of the CSDLAC buyback agreement; (2) for the Chino Desalters; (3) for local ion exchange groundwater treatment projects; or (4) for local development in non-sewered areas. These cost savings are expected to offset the cost of "regionalizing" the NRWS.

The NRWS and Salinity Management Action Plan continues the IEUA Board of Directors' policy of phased implementation of budgets and rates in order to provide economic incentives for the export of brine wastes through the NRWS.

Current TYCIP

Several actions are being taken to increase the economic value of the NRWS and to improve or retain the integrity of the NRWS. The major CIP projects for the NRWS are described below and listed in table 6-2.

Table 6-2: NRW System Capital Improvement Program — Major Projects

Project	Scheduled Completion Fiscal Year	Ten-Year Cost (in Million Dollars)
CSDLAC Capital Replacement Costs	Each Year	$18.8*
NRW System Capital Replacement and Refurbishment	2016	17.9
NRW System Cleaning, Inspection and Analysis	2011	6.9
Total—Major NRW System Projects		43.6
Total—All NRW System Projects		**45.8**

* Includes $5.6 million savings from relinquishing of 3 MGD unused capacity back to CSDLAC.

IEUA is obligated to make annual payments to CSDLAC to cover its proportional share of the capital repair, relocation, reconstruction and rehabilitation (4R) costs into CSDLAC sewer system. The relinquishment of 3 MGD of unused NRWS capacity to CSDLAC reduced the ten-year budget to $18.8 million for 4R capital replacement costs, a saving of $5.6 million.

As a part of the ten year CIP, one of the goals of IEUA is to identify and assess the condition, rehabilitation and replacement costs for the NRWS. IEUA retained the services of PBS&J and performed an exhaustive condition assessment of the NRWS pipelines and infrastructure including manholes using Closed Circuit Tele Vision (CCTV) and Global Positioning System (GPS) technology.

This assessment indicated the following: 48 miles of pipeline and 571 manholes of the NRWS were inspected. Overall, the pipelines that were inspected are in good condition, with 21% of the segments requiring no action. Nevertheless, the system is in need of cleaning, as over half of the inspected segments have debris accumulation or deposits in the pipeline and about 9 % of the system could not be inspected due to the excessive debris. Structural defects were found in 17% of the system that will require point repair and replacement over the next two years, and rehabilitation of pipelines over the following eight years by Cast in Place Pipe lining techniques. About 5,100 feet of SARI pipeline, 15,000 feet of North, Central and South Trunks of the Northern NRW system, and 4,500 feet of laterals require rehabilitation. Manholes were in relatively good condition, with 61% not requiring action, 17% needing maintenance, 13% needing repair/rehabilitation and 9% needing re-inspection as they could not be located or were buried. A planning level condition assessment of the Philadelphia Avenue Pump Station found that it is aging and in need of improvements and upgrades. New pumps, instrumentation, controls and improvements to the ferric chloride system were recommended and are also included in the CIP schedule.

A multi year capital improvement project has been established to rehabilitate the NRWS pipelines and manholes. Table 6-3 shows the recommended CIP schedule from PBS&J.

Table 6-3 Ten Year Capital Improvement Program for NRWS

	Expense per Fiscal Year (in Thousands of Dollars)										
TOTAL	2006/ 2007	2007/ 2008	2008/ 2009	2009/ 2010	2010/ 2011	2011/ 2012	2012/ 2013	2013/ 2014	2014/ 2015	2015/ 2016	Totals
CIP	$ 833.10	$ 1,051.10	$ 3,019.60	$ 2,267.50	$ 1,389.90	$ 2,635.10	$ 1,883.90	$ 1,682.60	$ 1,117.80	$ 1,994.40	$17,875.00
O&M	$ 1,345.00	$ 1,320.80	$ 1,573.60	$ 1,293.60	$ 1,345.30	$ 1,399.10	$ 1,455.10	$ 1,513.30	$ 1,573.80	$ 1,636.60	$14,456.60
Annual	$ 2,178.10	$ 2,371.90	$ 4,593.30	$ 3,561.10	$ 2,735.20	$ 4,034.20	$ 3,339.00	$ 3,195.90	$ 2,691.70	$ 3,631.20	$32,331.60

If resources allow, IEUA staff will perform some of the cleaning, CCTV, and condition assessment as an ongoing program and to meet the recently adopted requirements of the State mandated Wastewater Discharge Requirement's Sanitary Sewer Management Program.




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Organics Management/ Co-Composting

Capital Improvement Programs

Organics Management / Co-Composting Capital Improvement Programs

Background

The IEUA commenced an Organics Management Study in August 2000 to address long-range plans for treating and utilizing biosolids as well as dealing with the problems of dealing with manure and greenwaste generated within its service area. This resulted in the release of a Chino Basin Organics Management Business Plan dated May 31, 2001 and related Organics Management Strategy Technical Memoranda. The Business Plan was developed consistent with the IEUA's mission to protect public health, the groundwater basin, and the environment (e.g., reduce air pollution and improve water quality). The IEUA Board of Directors certified the Programmatic EIR for the Business Plan in June 2002 and adopted the Business Plan together with the Wastewater Facilities Master Plan and Recycled Water Feasibility Study in August 2002.

To the extent it is economically feasible, the IEUA's organics management strategy seeks to protect the Chino Groundwater Basin from infiltration of salts and nitrogen compounds generated on dairies in order to avoid the future cost of removing such contaminants from the groundwater. As a result, the Business Plan is an integral tool to implement the Chino Basin Watermaster's Optimum Basin Management Plan. The Business Plan included the implementation of two key initiatives. The first is a comprehensive renewable energy reliability program, which has resulted in the construction of two dairy manure digestion facilities to generate methane gas and divert salts from the groundwater basin. The second is a local organics recycling program that includes the local communities as partners to divert organic solids from landfill disposal and to be consumers of recycled organic products generated from within the community. In January 2006, IEUA completed an expansion of the manure digestion facility located at IEUA's Regional Plant No. 5 (RP-5). The expansion increases the amount of manure processing from 225 tons per day to 315 tons per day, thus increasing the generation of methane gas for the renewable energy generation program. On December 19, 2005, the pilot manure digestion facility at IEUA Regional Plant No. 1 (RP-1) stopped operation, halting manure processing at RP-1.

The IEUA Co-composting Facility decommissioning will be completed in Fall 2006. This property was sold to Lewis Operating Corporation to be included with the City of Chino's plans for residential and commercial development in the former dairy preserve.

IEUA continues to evaluate expansion of organics processing facilities to increase renewable energy generation, in particular, IEUA will evaluate the use of available property at RP-5 for additional digestion, composting or other newer technologies to convert organics to energy and bio-products.

Inland Empire Regional Composting Facility

In February 2002, the IEUA, in partnership with the County Sanitation Districts of Los Angeles County (CSDLAC), formalized an agreement implementing the joint goal of development of a sustainable biosolids management project. This Joint Powers Agreement (JPA), called the Inland Empire Regional Composting Authority, outlines the design, construction and operation of a biosolids composting facility, called the Inland Empire Regional Composting Facility (IERCF), to be located adjacent to the IEUA Regional Water Recycling Facility No. 4, located in Rancho Cucamonga, CA. This new composting facility will replace IEUA's Co-Composting Facility located in Chino, CA. The transition to the IERCF and decommissioning of the existing Co-Composting Facility is scheduled for late 2005/early 2006. While it is anticipated that the majority of biosolids generated at the IEUA's water recycling facilities will be made into compost at the Inland Empire Regional Composting Facility, IEUA will continue evaluating several options that will provide a diverse, yet cost-effective, long-term sustainable biosolids recycling portfolio.

The major project milestones accomplished towards opening the Inland Empire Regional Composting Facility (IERCF) can be summarized as follows:

Chronological Summary of the IERCF Project Milestones

Sept 2002	Preliminary Design was completed. Estimated construction cost up to $35 million Capital and O&M costs estimated $42 per wet ton of biosolids IERCA Board authorized design
June 2003	Estimated construction cost $40 million, not including rolling stock and construction management related costs
July 2003	Obtained Conditional Use Permit from City of Rancho Cucamonga
Sept 2003	IERCA Board Approved $49,950,000 to Construct the IERCF
Feb 2004	Completed Design of the IERCF and solicited bids for construction
June 2004	Awarded Construction Contract to Tilden-Coil Construction . Approved amended Construction Budget of $66,569,000
September 2006	Will complete construction and begin start-up.

In December 2005, the Inland Empire Regional Composting Authority determined it is necessary to include a storage facility for compost to assist in compost marketing because of the seasonal nature of compost sales.

IEUA will lease available property at its Regional Plant No. 4 (RP-4) facility as this property will be available until such time it is needed for expansion of water recycling facilities. This facility is expected to be constructed, temporarily, on the IEUA RP-4 property. After ten years the facility will be relocated to a yet to be determined location.

Current TYCIP

As indicated in Table 7-1, the major TYCIP project in the Organics Management Program is the IERCF. Half of the design and construction costs for IERCF will be paid by CSDLAC through the Inland Empire Regional Composting Authority. The TYCIP also includes pilot projects associated with the close-out and replacement of the existing Co-composting Facility. Financing for the Organics Management and Co-Composting Programs is discussed in Chapter 8.

Table 7-1: Organics Management Capital Improvement Program—Major Projects

Project	Scheduled Completion	Ten-Year Cost (in Million Dollars)
Inland Empire Regional Composting Facility	Fiscal Year 2005/2006	$15.71
Total—Major OC/CC Projects		**$15.7**
Total—All OC/CC Projects		**$18.0**

[1] Out of a project budget of $31.3 million. This does not include the other half of project costs which will be funded by the County Sanitation Districts of Los Angeles County, through the Inland Empire Regional Composting Authority.



Ten-Year CIP Costs and Financing

Ten Year CIP Costs and Financing

Introduction

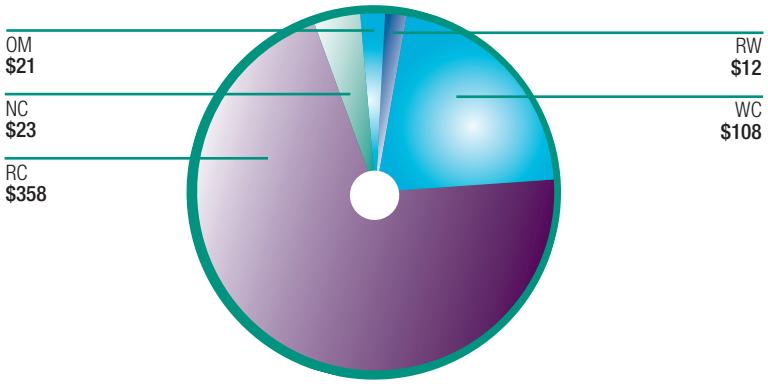
The Agency's budget and Ten-Year Capital Improvement Program are divided into several different program areas:

- Wastewater Collection, Treatment, and Disposal (RC Fund)
- Recycled Water Program (WC Fund)
- Recharge Water Program (RW Fund)
- Non-reclaimable Waste Water System Program (NC Fund)
- Organics Management Program (OM Fund)

These funds account for all of the costs and revenues associated with acquisition or construction of facilities and improvements. The operating funds are described in the Agency's adopted Budget (Volume 1) and are not discussed in this Ten-Year Capital Plan except to note any transfers between capital and operating funds.

As shown in Figure 8-1, by far the largest capital improvement program is the RC Program. For each program, the complete list of projects with schedules and budgetary costs is shown in Appendix B.

Figure 8-1: Recommended Ten-Year Capital Project Expenditures (Dollars in Millions)



Wastewater Collection, Treatment, and Disposal

This year's Ten-Year Program recommends $378 million in capital project expenditures for the RC Program over the next ten years for both new construction and replacement projects. The projected RC Program expenditures are higher than in last year's (FY 2005/2006) TYCIP by approximately $50 million dollars. The increase is generally attributable to the higher growth forecast for the Agency's service area and the need to accelerate some expansion projects. The most significant additions are the RP-1 Condition Assessment related projects of $28.1 million over the next ten years and the Westside Interceptor Project of $20 million, starting in FY 2010/2011.

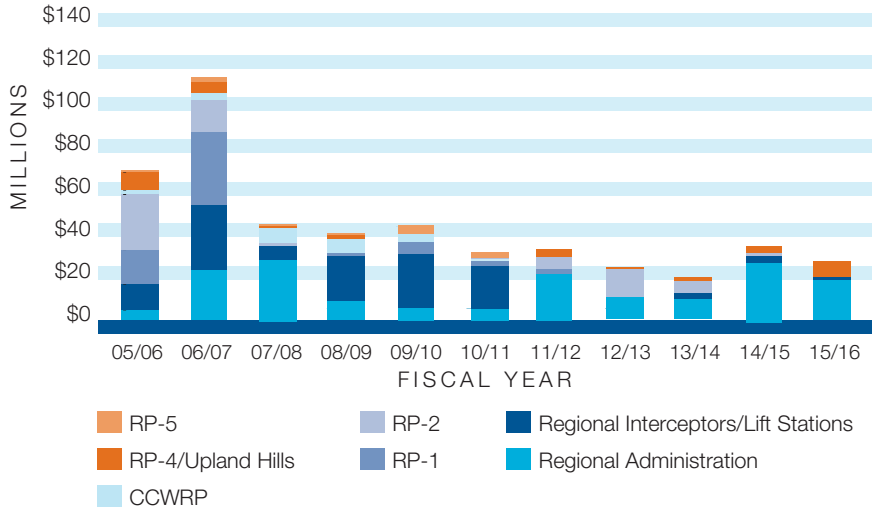
Table 8-1 ("Wastewater Collection, Treatment, and Disposal") lists the largest RC projects, in terms of ten-year cost, by service area. The projects listed in Table 8-1 account for 79 percent of the $378 million budgeted for RC projects in the next ten years. Within the RC Program, the top six areas of expenditures are:

- Expansion of RP-5 from 15 to 27 MGD ($66.0 million),
- RP-1 Condition Assessment ($28.1 million),
- RP-1 Secondary Treatment System Modifications ($27.3 million),
- Expansion of RP-4 from 7 to 14 MGD ($20 million),
- Westside Interceptor ($20 million), and
- Upland Interceptor Relief Sewer-Phase II ($13.8 million)

Wastewater Collection, Treatment, And Disposal Program Costs

Figure 8-2 examines how the recommended RC capital project costs are spread over the next ten fiscal years and are grouped by location. The current fiscal year is also included for reference. The general trend is a relatively high level of expenditures in the first two years—over $100 million in FY 2006/07 and $42 million in FY 2007/08 -- tapering down to about half that level in the remaining years. In the first three years, significant projects are recommended at most locations—at RP-1, RP-4, RP-5, and in the wastewater conveyance system. Notably, the Agency will be completing the RP-1/RP-5 Bypass, odor control and digester improvement projects at RP-1, and interceptor and lift station projects and continuing with the RP-4 expansion to 14 MGD and the RP-5 Renewable Energy Efficiency Project. In the ensuing two years, the focus of work will be the RP-1 secondary treatment system improvements. The following two years, the focus will be the RP-5 expansion from 15 to 27 mgd.

Figure 8-2: Recommended Wastewater Collection, Treatment, and Disposal Program Capital Expenditures



Wastewater Collection, Treatment, And Disposal Program Financing

To plan, design, and construct the RC program capital projects summarized previously. It is expected to cost approximately $378 million in the coming ten-year period. In addition to paying for new capital projects, the RC fund has long-term liabilities for bonds payable and interest expenses, as well as administrative and other expenses. In addition, transfers are made to other funds for capital and administrative support and debt service. Financing for the RC program is provided by revenue from several sources including, but not limited to: property taxes, capital capacity reimbursement payments (connection fees), bond issues, state loans, grants, proceeds from the sale of property, and interest earned.

The details of the Agency's Ten Year Budget for the RC program are presented in Exhibit X. This gives a complete revenue and cost summary, including construction and replacement projects ("work in progress") and transfers between the RC fund and other funds. The major transfers are to the Recycled Water, Recharge Water, Organics Management and Internal Services funds.

On the revenue side, additional debt service issues (revenue bonds) are planned to finance the TYCIP. Within the RC Program, grants are expected to total $9 million for wetlands and efficiency projects. The key sources of revenue for the TYCIP are property taxes ($239 million) and supplemental capital contributions ($269 million). Supplemental capital contributions come from calls to Contracting Agencies for Capital Capacity Reimbursement Payments (CCRP), which are derived from connection fees. The expected revenue from Reimbursement Payments depends on the number of new EDUs added to the Regional wastewater system each year. The expected number of EDUs is forecasted based on growth projections. A conservative EDU growth rate of 6,500 to 7,400 per year for the first three years, gradually decreased to 4,000 per year for the last two years was assumed for the revenue projections. (See discussion on page 23).

In the past, it has been assumed that the CCRP will be increased at the rate of inflation in construction costs, estimated at an average of 3% PER YEAR. Starting in FY 2006/07, the annual increase in the CCRP is calculated as the ten year average Engineering News Record (ENR) construction cost index for Los Angeles County (ENRLA). The current FY 2006/07 Capital Capacity Reimbursement Payment amount is $4,200 per EDU. It was raised from $4,000 per EDU by the IEUA Board of Directors in March 2006.

To support and meet the future growth in the service area for the next ten years, the Agency will pursue State low interest loans of approximately $84 million for the RC Program projects.

Table 8-1: Wastewater Collection, Treatment, and Disposal Program Summary

Service Area	Ten-Year Cost (Dollars in Millions)
RP-1	
• RP-1 Assessment	28.1
• RP-1 Secondary Treatment System Modification	27.3
• New Operations Laboratory	20.0
• RP-1 Dewatering Facility Expansion	10.8
• RP-1/RP-2 Digester Gas System Modification	7.7
• Regional Facility Chemical and Control Automation	6.3
• RP-1 Facilities Improvements	5.0
• RP-1 Modernization	4.4
• RP-1 Tertiary Filter Expansion	3.8
• RP-1 Filtrate Treatment Expansion	3.8
• RP-1 3-Phase Digestion Improvement	3.6
• RP-1 Odor Control - Phase I	3.3
• RP-1 Gravity Thickener No. 2	2.1
• RP-1 Aeration Basin Modification	2.1
Total—Major RP-1 Projects	**128.3**
Total—All RP-1 Projects	**143.0**
RP-4	
• RP-4 Liquid Expansion to 14 mgd	20.0
• San Bernardino Ave Pump Station	13.3
• RP-4 Land Acquisition	5.9
• RP-4 Overflow Bypass Pipeline	5.5
Total—Major RP-4 Projects	**44.7**
Total—All RP-4 Projects	**46.0**
CCWRF	
• CCW Tertiary Filter and Chlorine Tank Expansion	10.2
• CCWRP Aeration System Modification	6.4
• CCWRF Aeration System Replacement	2.0
Total—Major CCWRF Projects	**18.6**
Total—All CCWRF Projects	**20.5**
RP-2/RP-5	
• RP-5 Phase II Expansion	66.0
• RP-5 Renewable Energy Efficiency	15.7
• RP-5 System Facility Upgrade and Improvement	11.2
• RP-5 Warehouse and Maintenance Facility	6.0
• RP-2 Dewater Cake Storage System	3.3
• Chino Creek Park	2.9
Total—Major RP-2/RP-5 Projects	**108.4**
Total—All RP-2/RP-5 Projects	**109.9**
Total—Major Wastewater Collection, Treatment, and Disposal Projects	**300.1**
Total—All Wastewater Collection, Treatment, and Disposal Projects	**378.2**

Other IEUA Capital Improvement Programs

Other IEUA capital improvement programs include the Recycled Water Program (WC Fund), the Recharge Water Program (RW Fund), the Non-Reclaimable Wastewater System Program (NC Fund), and the Organics Management Program (OM Fund). Exhibits X through XV present revenue and cost summaries for each capital improvement program, based on the Agency's budget. Table 8-2 lists the major projects for each program in terms of dollars budgeted for the next ten years. In addition, Appendix B presents the complete list of projects with schedules and budgetary cost estimates for the next ten years.

Recycled Water Capital Program

As discussed on page 33, this year's TYCIP recommends $118 million in capital project expenditures for the WC Program over the next ten years. Exhibit XI summarizes the Agency's ten-year budget for the WC Fund. To finance the Recycled Water Program, Phases I–V, approximately 7% of the funding is expected to come from State Water Resources Control Board (SWRCB) and Santa Ana Watershed Project Authority (SAWPA) grants, 42% from SWRCB loans, 4% from DWR grants, 17% from U.S. Bureau of Reclamation (USBR) grants, and the remaining 30% will be funded by excess revenues from recycled water sales. Recycled water sales are expected to generate approximately $1.5 to $2 million annually for the WC Fund.

Any funding shortfalls will be made up by interfund transfers from the RC Fund.

Recharge Water Capital Program

This year's TYCIP recommends $11.6 million in capital project expenditures for the RW Program over the next ten years. The Recharge Water Capital Improvement Fund (RW Fund) was created in FY 2002/2003 to track the expenses associated with implementation of the Recharge Program with Chino Basin Watermaster. The establishment of this new fund in July of 2002 coincided with the Agency's readiness to begin final design of facilities improvements for the Recharge Program. Exhibit XII summarizes the ten-year budget for the RW Fund.

To finance the RW Program, the Chino Basin Regional Financing Authority issued $20 million of variable rate debt obligations in July of 2002. The Chino Basin Watermaster, through the Recharge Facilities Agreement, is obligated to pay one-half of the debt service. The State of California's Proposition 13 Grant Program is providing $20 million of grant funding for the recharge program. Interfund transfers from the RC Fund cover the recharge program's debt service and provide a minimum operating reserve. Cooperating agencies are providing in-kind services. An $11 million basin recharge enhancement project is proposed to be expended prior to 2008 to construct a new MWD turnout, SCADA system improvements, and monitoring wells. These additions are partially funded by a $5.3 million DWR Prop 50 Grant and the remaining costs will be matched 25% by IEUA and 25% by CBWM.

Non-Reclaimable Wastewater System Capital Program

The NC Fund records financial transactions associated with facilities necessary to operate the northern and southern NRW systems. Exhibit XIII summarizes the Agency's ten-year budget for the NC Fund. This year's TYCIP recommends $26.9 million in capital project expenditures for the NC Program over the next ten years. The major capital expenditures are the CSDLAC 4R charges and NRWS condition assessment capital projects (see page 48).

Table 8-2: Major Capital Projects—Other Programs

	Ten Year Cost (Dollars in Millions)
Water Recycling Program	
Recycled Water Pipeline Projects	70.8
Recycled Water Distribution System	47.7
Total - All Water Recycling Projects	**118.5**
Groundwater Recharge Program	
Recharge Enhancement Project	11.0
Total-All Recharge Projects	**11.6**
Non-Reclaimable Wastewater System	
CSDLAC Capital Replacement Costs – 4Rs	15.3
NRW System Refurbishment	2.0
NRW Condition Assessment	7.7
Total-All NRW System Projects	**26.9**
Organics Management	
Inland Empire Regional Compositing Facility[1]	3.0
Total-All Organics Management Projects	**5.5**

[1] The other half of project costs will be funded by the County Sanitation Districts of Los Angeles County, through the Inland Empire Regional Composting Authority.

The major revenue sources for the NC Fund are: (1) monthly user charges to holders of capacity rights in the system; and (2) sale of new capacity rights.

Organics Management Capital Programs

The Organics Management (OM Fund) records financial transactions associated with facilities necessary to implement and operate the Organics Management Programs. In addition to paying for new capital projects, the OM Fund incurs expenses for debt service from previous bond issues and incurs administrative and operational expenses. Exhibit XIV summarizes the Agency's ten-year budget for the OM Fund. In the Organics Management Program, the major capital expenditures are for the Inland Empire Regional Composting Facility (IERCF) described on page 51. To finance the IERCF, IEUA issued $12.9-million in bonds in FY 2002/2003. In addition, interfund transfers from the RC Fund to the OM Fund will provide approximately $2.3 million for capital contributions and debt service. Another major revenue source for the OM Fund will be payments from the sale of the existing IEUA Co-Composting site property.

Table 8-3: Projected Status of Reimbursement Payment Receipts (Dollars in Thousands)

Fiscal Year	Annual Contracting Agency Receipts (Reimbursement Fees)	IEUA Expenditure of Funds (Capital Calls)	Balance of Funds Collected	Balance of Funds Collected for 5 or More Years
1990-91	4,844	13,560	0	0
1991-92	6,074	9,450	0	0
1992-93	4,337	0	4,337	0
1993-94	3,770	0	8,107	0
1994-95	4,906	0	13,013	0
1995-96	6,801	4,600	15,214	0
1996-97	11,185	5,125	21,274	0
1997-98	14,213	24,519	10,968	0
1998-99	12	14,637	0	0
1999-00	11,094	3,190	7,904	0
2000-01	17,216	22,400	2,720	0
2001-02	20,135	48,010	0	0
2002-03	23,999	0	23,999	0
2003-04	28,451	0	52,450	0
2004-05	28,451	0	29,208	0
2005-06	27,958	59,800	0	0
2006-07	27,578	30,711	0	0
2007-08	32,812	28,221	4,591	0
2008-09	30,402	17,768	17,225	0
2009-10	27,790	20,380	24,635	0
2010-11	27,118	3,909	47,844	0
2011-12	25,757	28,610	44,991	4,591
2012-13	24,316	18,630	50,797	17,225
2013-14	24,436	12,506	62,727	24,635
2014-15	24,256	26,028	60,955	47,844
2015-16	24,368	15,234	70,089	44,991

AB-1600 Nexus Test

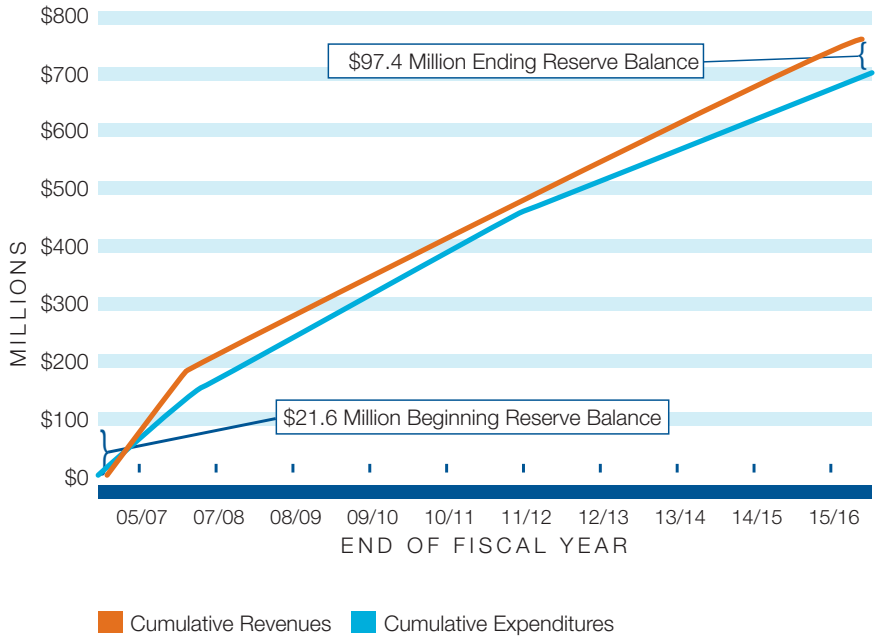
Each year, IEUA assists its Contracting Agencies to demonstrate compliance with AB1600 (the "Mitigation Fee Act"), which requires that connection fees must be reasonably related to the service provided. As it relates to Capital Capacity Reimbursement Payments, this is accomplished by summarizing the projected needs for the collected funds and the duration that the funds will be held. Table 8-3 summarizes IEUA's projected need for Capital Capacity Reimbursement Payment revenues for the Regional Capital Improvement (RC) fund.

As indicated in Table 8-3, in the column labeled, "Balance of Funds Collected for 5 or More Years," post-1989 reimbursement payment receipts do not stay on deposit for more than five years during the ten-year program. If funds collected after January 1, 1989 are segregated and used to meet Regional Program needs first, post-1989 funds will be expended within the required five years. The CCRP balance starts building up in FY 2008/09, as IEUA will pursue the state loans for Regional Programs. As a result, funds in the CCRP balance will stay for more than 5 years. However, these funds are expected to expend for projects that continue beyond the ten year period, and to provide adequate coverage for cash flow shortages arising from pending state loans. Therefore, the CCRP balance is projected to meet the statutory requirements of AB-1600.

Conclusions

The recommended financing for the Regional Program is adequate to fund the Ten-Year Capital Improvement Plan without additional debt service issues; short term commercial paper or long term revenue bonds. Figure 8-3 shows how gross revenues and costs vary throughout the ten years, affecting the combined working capital and Member Agency reserves. Starting with a projected reserves balance of $22 million at the beginning of FY 2005/2006 with initial costs set to zero, cumulative revenues are projected to exceed costs during the next ten years, leaving an ending combined reserve balance of $97 million.

Figure 8-3: Wastewater Collection, Treatment, and Disposal Program Cumulative Revenues/Financing Sources and Expenditures



Capital Capacity Reimbursement Payments are projected to provide $269 million for the capital improvement program over the next ten years. Grants are expected to provide $9 million for Regional Program projects, $33 million for Recycled Water projects, $5 million for Groundwater Recharge and $3.5 million for solids handling and energy generation projects. State Revolving Fund loans are expected to provide approximately $50 million for Recycled Water projects and $83.8 million for Regional Program projects. The other main revenue sources are approximately: $239 million in property tax revenues/recovery; $2.5 million from Watermaster for the groundwater recharge program; $24 million from NRW System user charges and capacity fees; $18 million in interest on reserves; and $13 million in payments from the sale of property.





Emerging Planning Issues

Emerging Planning Issues

In 2002, IEUA staff, in partnership with the Regional Technical Committee, prepared a very comprehensive master plan of the regional wastewater facilities. In 2005/2006, IEUA staff will be closely coordinating an implementation strategy for the Master Plan with the regional committees to ensure that all the key technical issues are addressed.

Key strategic planning issues that are being implemented include:

- Recycled water,
- Renewable energy generation,
- Organics management,
- Phased treatment plant expansions, and
- Chino Basin Watermaster Optimum Basin Management Plan (OBMP).

The 2002 Wastewater Facilities Master Plan (WFMP) recognized the interrelationship of the many programs IEUA is involved in, and also the interrelationship of the facilities that serve these programs. The continued success of the IEUA service area is heavily dependent on a high- quality, dependable water supply which in turn is dependent on sound conservation and waste management practices.

In 2005/2006, the Facilities Optimization Model project was kicked-off. This project will develop a comprehensive strategy to optimize the need and timing of wastewater treatment facilities improvements, as well as on-going operations and maintenance (O&M) activities for all of the conveyance, treatment, and disposal facilities taking into consideration the rapid urban growth. The Agency is also developing an Asset Management Program to ensure adequate resources are budgeted for replacement and maintenance of the capital facilities.

The goal is to develop a business plan strategy of expanding IEUA water recycling facilities that optimize the three key products from the treatment plants: provide recycled water supplies to customers; produce high quality biosolid compost products; and optimize the cost effective production of renewable energy.

The vision is to ultimately manage all assets under an integrated “one plant” concept, with a watershed-based management perspective, including the impact of nonstructural programs on the need and timing of wastewater facility expansions and the maximum use of water recycling supplies for beneficial reuse.

The strategic model will address the five following major components of IEUA’s facilities:

- Wastewater Liquids treatment to optimize production of recycled water at plants for delivery to customers and renewable energy/biosolids production;
- Recycled Water delivery to customers (e.g., diurnal flow, storage and minimization of pumping costs);
- Renewable Energy Methane Gas Generation;
- Power /Electrical /Natural Gas Loads; and
- Wastewater/ Industrial/ Manure Solids production to composting facilities

Other leading planning projects include the following:

- Monitoring growth, development activity and other community economic activities that impact the Agency’s infrastructure, and other utility service functions;
- Preparing plans and program evaluations in coordination with the retail agencies that will guide the Agency’s policy development and investment decisions in meeting the future needs of the region, including the Ten-Year Capital Improvement Plan, Regional Urban Water Management Plan;
- Developing and implementing regional water conservation programs in partnership with the seven retail water agencies served by IEUA as well as other agencies within the Agency’s service area;
- Implementing the Inland Empire Regional Recycled Water Program and Chino Basin Groundwater Recharge Program, in partnership with the Chino Basin Watermaster and the cities and agencies served by IEUA;
- Leading a region-wide planning effort for the Chino Creek Watershed and Prado Basin to develop an integrated strategy for protecting water quality, preserving habitat, enhancing flood control and promoting environmental education.

Finally, on-going evaluations will prioritize and make the best use of future capital dollars by evaluating projects such as:

- **NRW System–** How can the NRWS be fully utilized to improve water quality and defer expansions at RP-4 and RP-5?
- **RP-4 Solids–** When should organic solids be processed at RP-4 to minimize cost and increase energy production?
- **Food Waste–** Do the existing anaerobic digester waste treatment systems have sufficient capacity to accept new waste streams (food waste) to enhance renewable energy production?
- **CMOM–** How will implementation of the program for Collection System Maintenance Operation and Management (CMOM) and asset management affect future facility design and planning?
- **System Automation–** How can the facilities in the system be automated to reduce staffing needs?
- **Technology–** Use of technology to further reduce operating costs and land requirements at the IEUA water recycling plants.

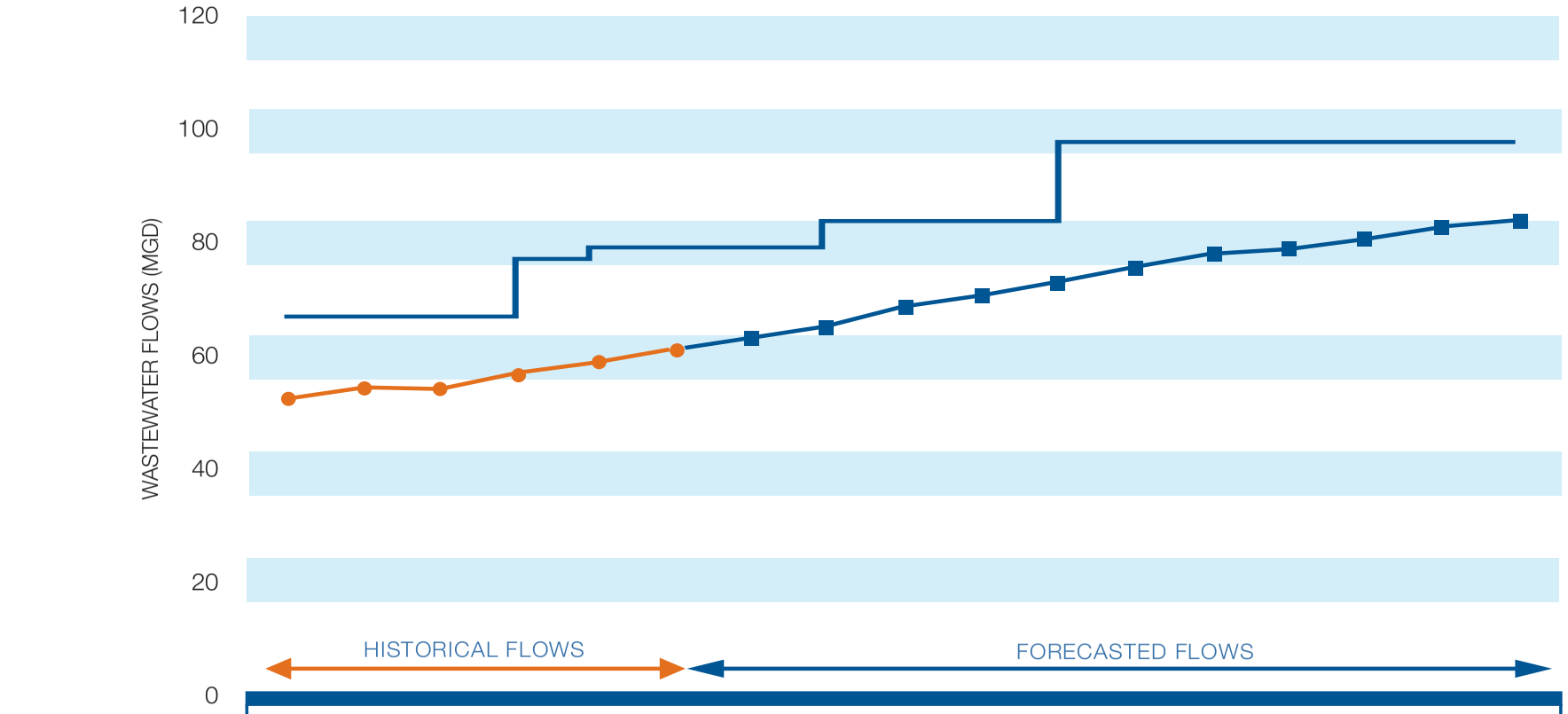
Key goals will be to reduce operating costs at IEUA water recycling plants through cost-effective capital improvements and to ensure environmental compliance. In addition, improvements to the plants to expand existing capacity to process wastewater to meet the rapid growth is a critical emerging issue.





Exhibits

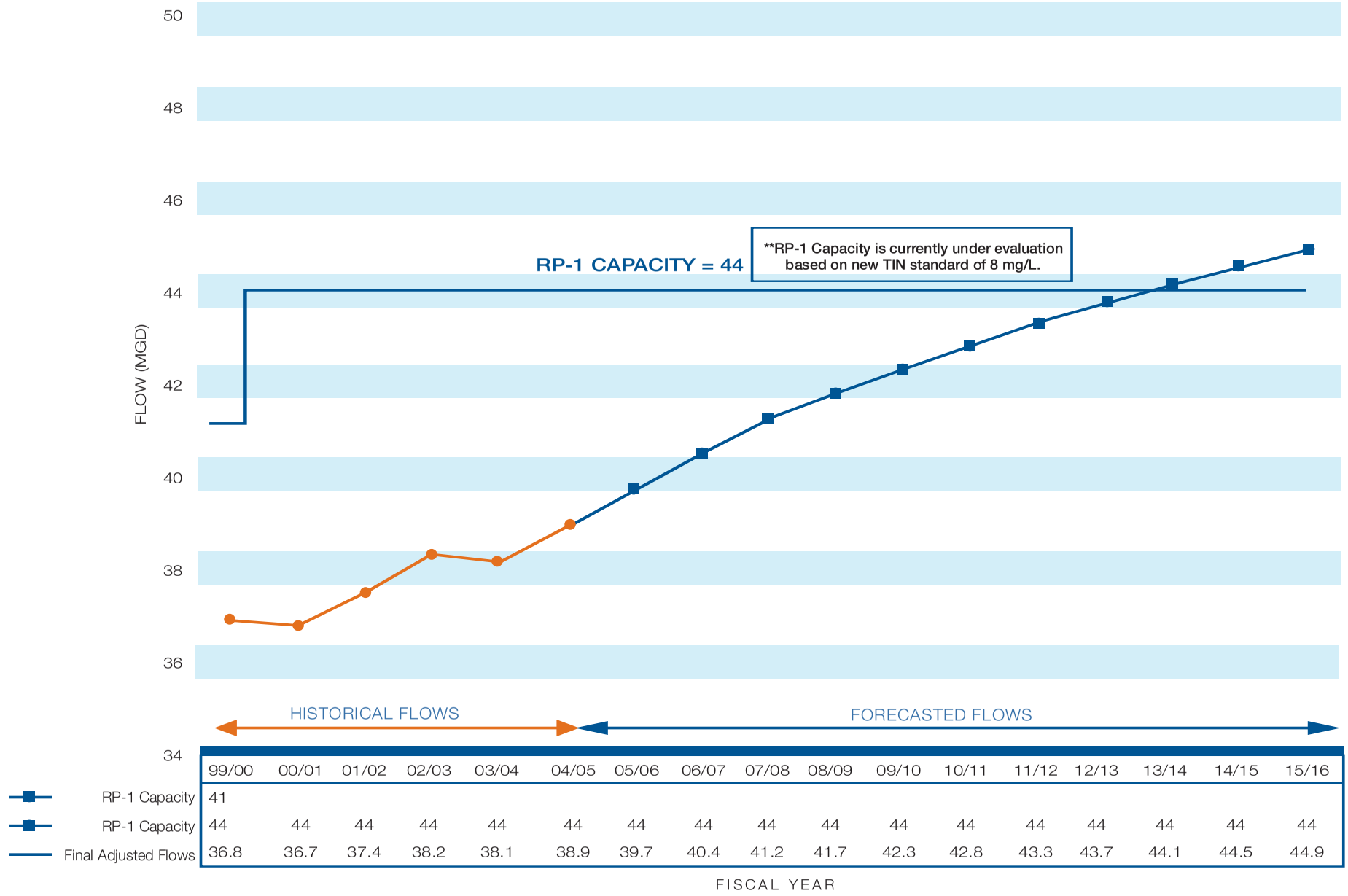
Exhibit I: Total Plant Flows



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
Total Plant Capacity	66.2	66.2	66.2	66.2													
Total Plant Capacity				76.2	76.2												
Total Plant Capacity					77.4	77.4	77.4	77.4									
Total Plant Capacity								84.4	84.4	84.4	84.4						
Total Plant Capacity											96.4	96.4	96.4	96.4	96.4	96.4	96.4
Total Plant Flows	52.3	53.9	53.9	56.3	58.3	60.3	62.29	64.65	67.54	70.29	72.7	74.95	76.99	78.84	80.62	82.3	83.93

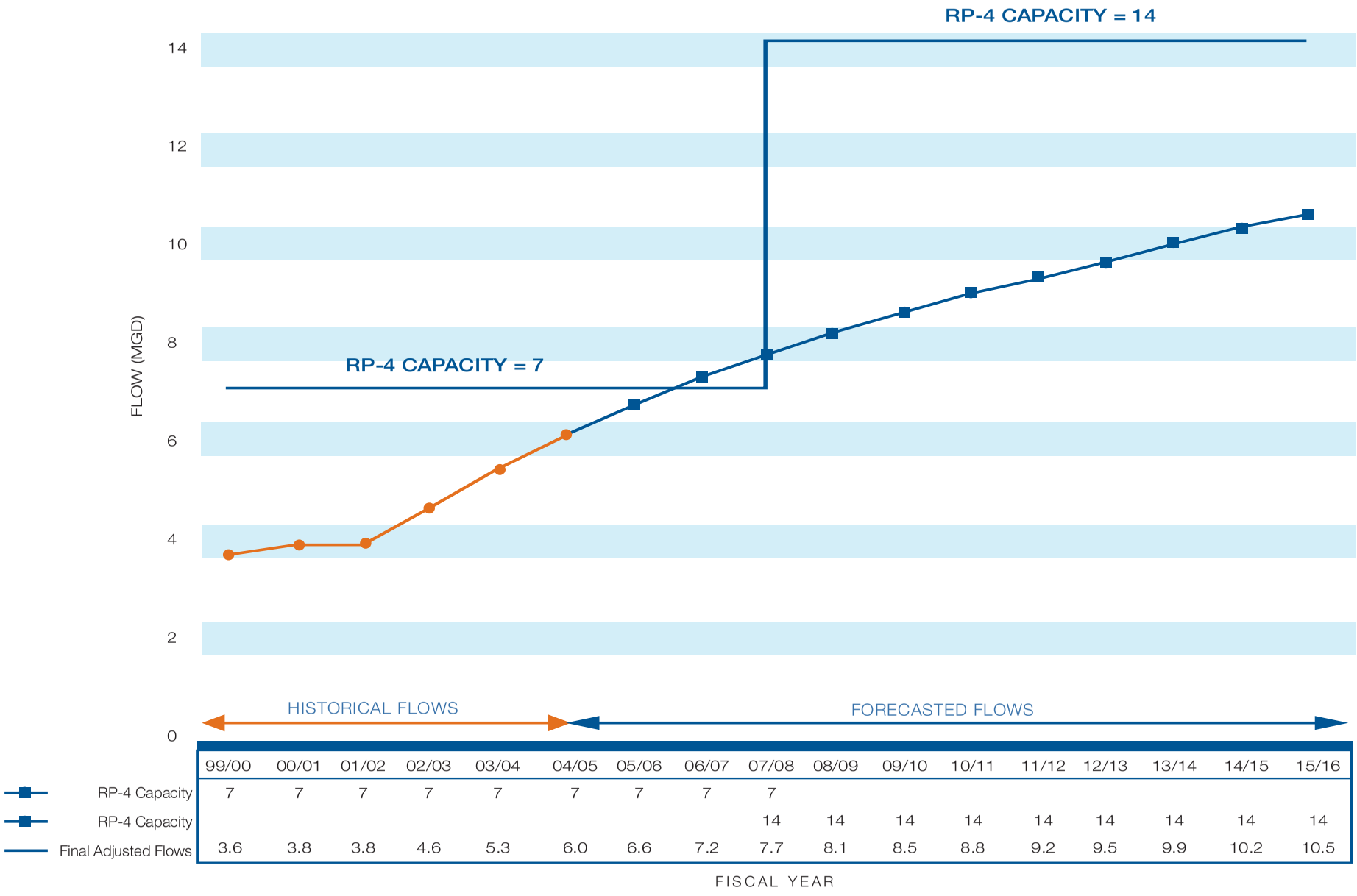
FISCAL YEAR

Exhibit II: Unadjusted RP-1 Flow Forecast (excludes Montclair Diversion)



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-1 Capacity	41																
RP-1 Capacity	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Final Adjusted Flows	36.8	36.7	37.4	38.2	38.1	38.9	39.7	40.4	41.2	41.7	42.3	42.8	43.3	43.7	44.1	44.5	44.9

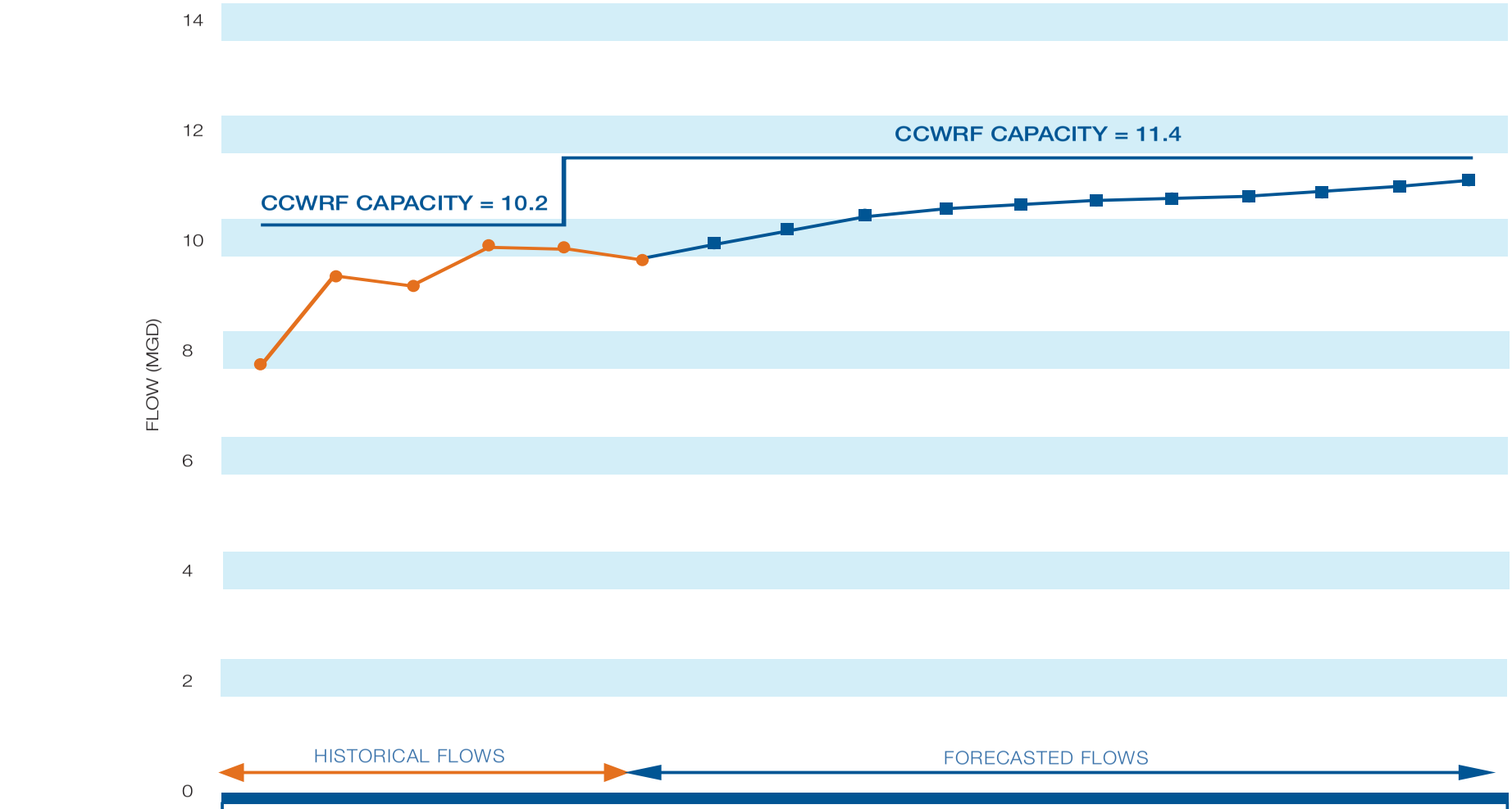
Exhibit III: Unadjusted RP-4 Flow Forecast



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-4 Capacity	7	7	7	7	7	7	7	7	7								
RP-4 Capacity									14	14	14	14	14	14	14	14	14
Final Adjusted Flows	3.6	3.8	3.8	4.6	5.3	6.0	6.6	7.2	7.7	8.1	8.5	8.8	9.2	9.5	9.9	10.2	10.5

FISCAL YEAR

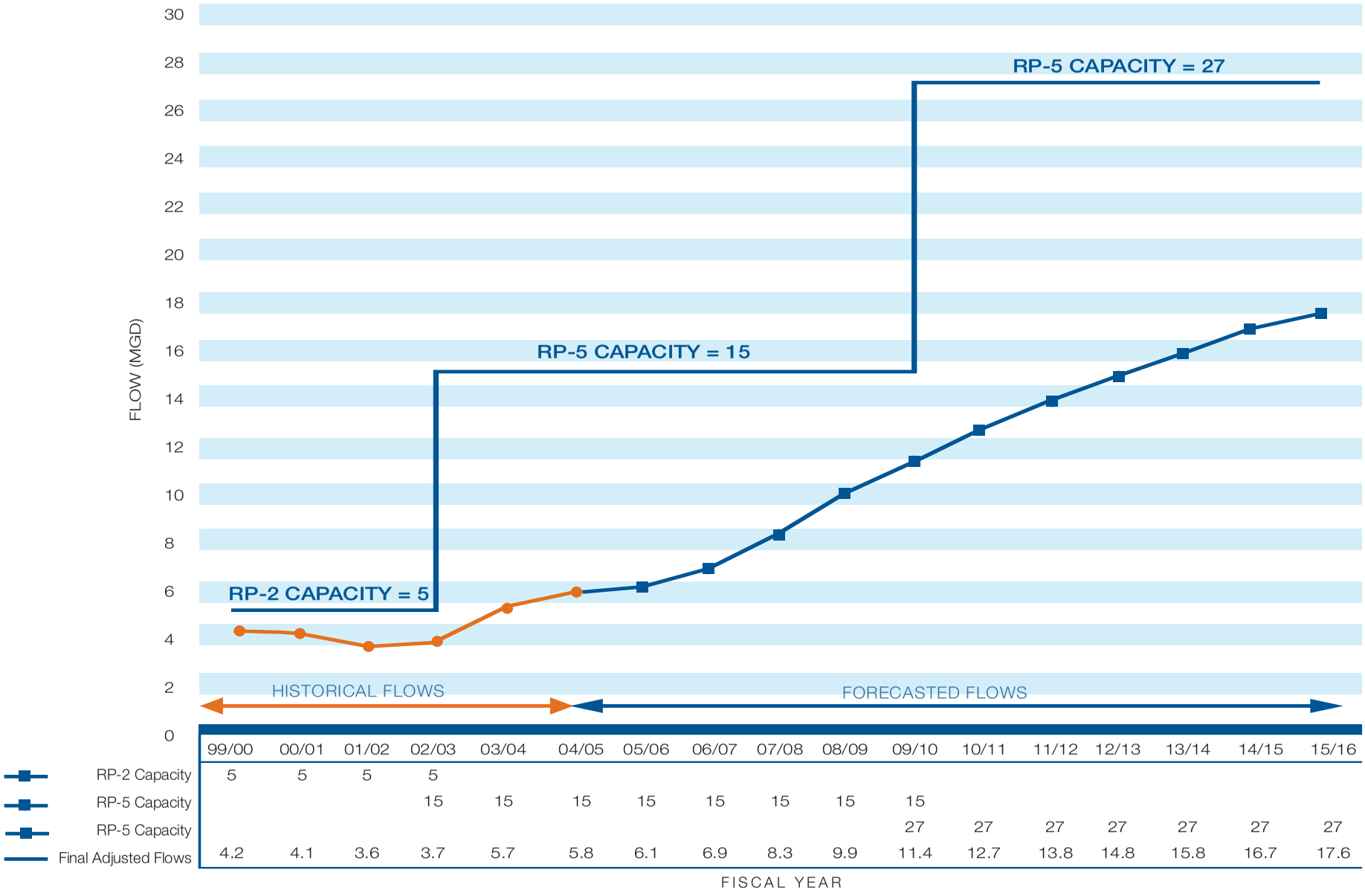
Exhibit IV: Unadjusted CCWRF Flow Forecast (includes Montclair Diversion)



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
CCWRF Capacity	10.2	10.2	10.2	10.2	10.2												
CCWRF Capacity					11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
Final Adjusted Flows	7.7	9.3	9.1	9.8	9.8	9.6	9.9	10.2	10.4	10.5	10.6	10.6	10.7	10.8	10.8	10.9	11.0

FISCAL YEAR

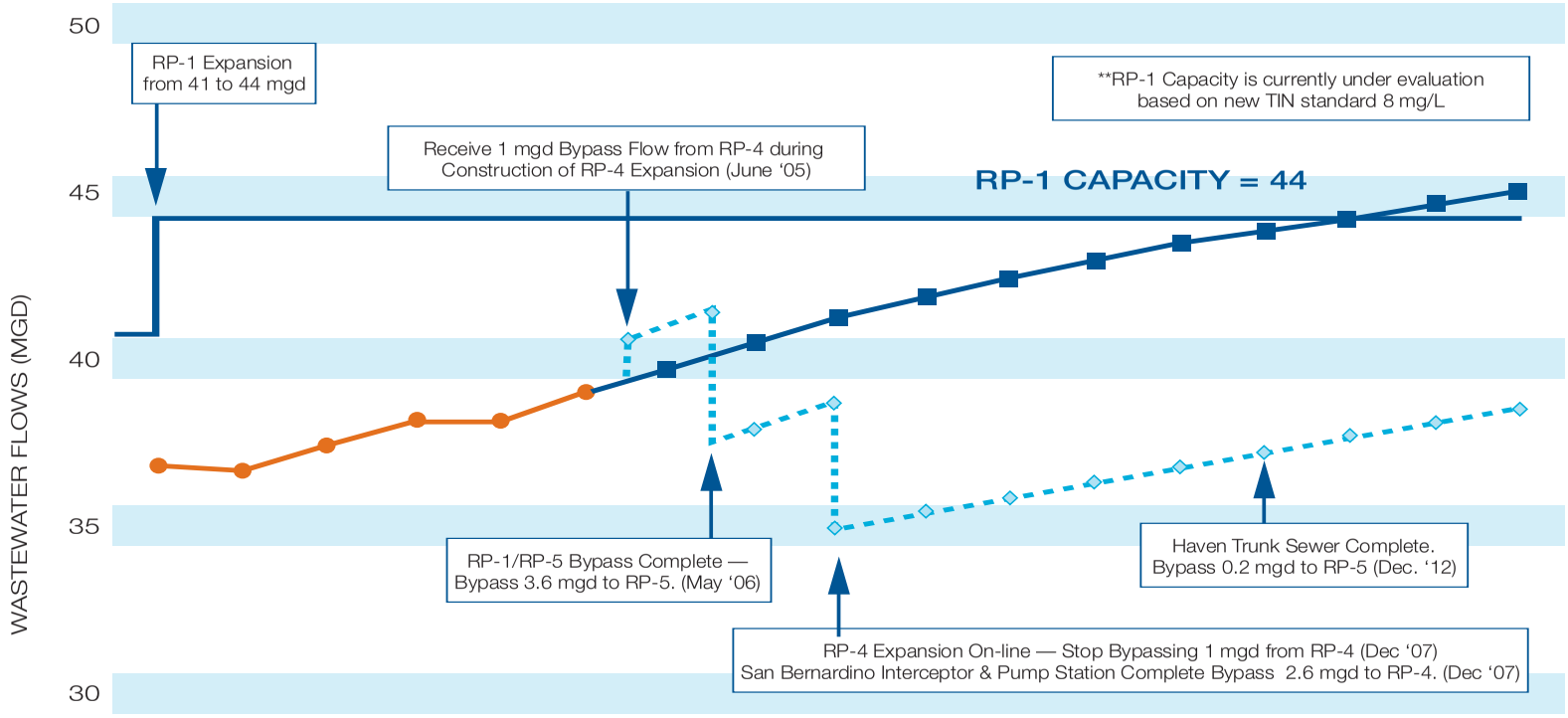
Exhibit V: Unadjusted RP-5 Flow Forecast



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-2 Capacity	5	5	5	5													
RP-5 Capacity				15	15	15	15	15	15	15	15						
RP-5 Capacity											27	27	27	27	27	27	27
Final Adjusted Flows	4.2	4.1	3.6	3.7	5.7	5.8	6.1	6.9	8.3	9.9	11.4	12.7	13.8	14.8	15.8	16.7	17.6

FISCAL YEAR

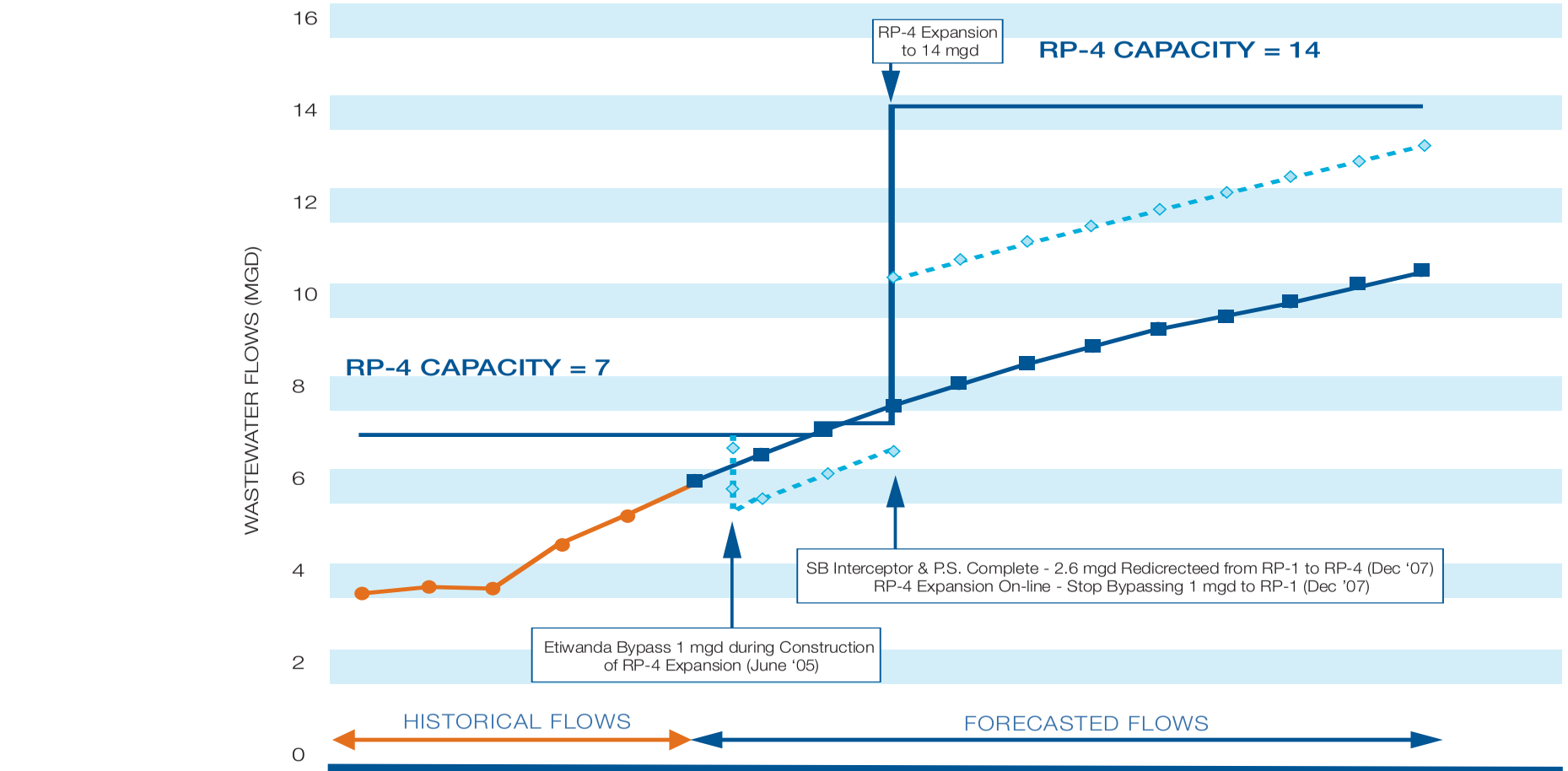
Exhibit VI: RP-1 Flow Forecast (excludes Montclair Diversion)



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-1 Capacity	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
RP-1 Unadjusted Flow Forecast	36.8	36.7	37.4	38.2	38.1	38.9	39.699	40.438	41.18	41.739	42.263	42.769	43.273	43.704	44.115	44.501	44.872
RP-1 Adjusted Flow Forecast						39.9	40.699	41.438									
RP-1 Adjusted Flow Forecast							37.099	37.838	38.58								
RP-1 Adjusted Flow Forecast								34.238	34.98	35.539	36.063	36.569	37.073	37.504			
RP-1 Adjusted Flow Forecast														37.304	37.715	38.101	38.472

FISCAL YEAR

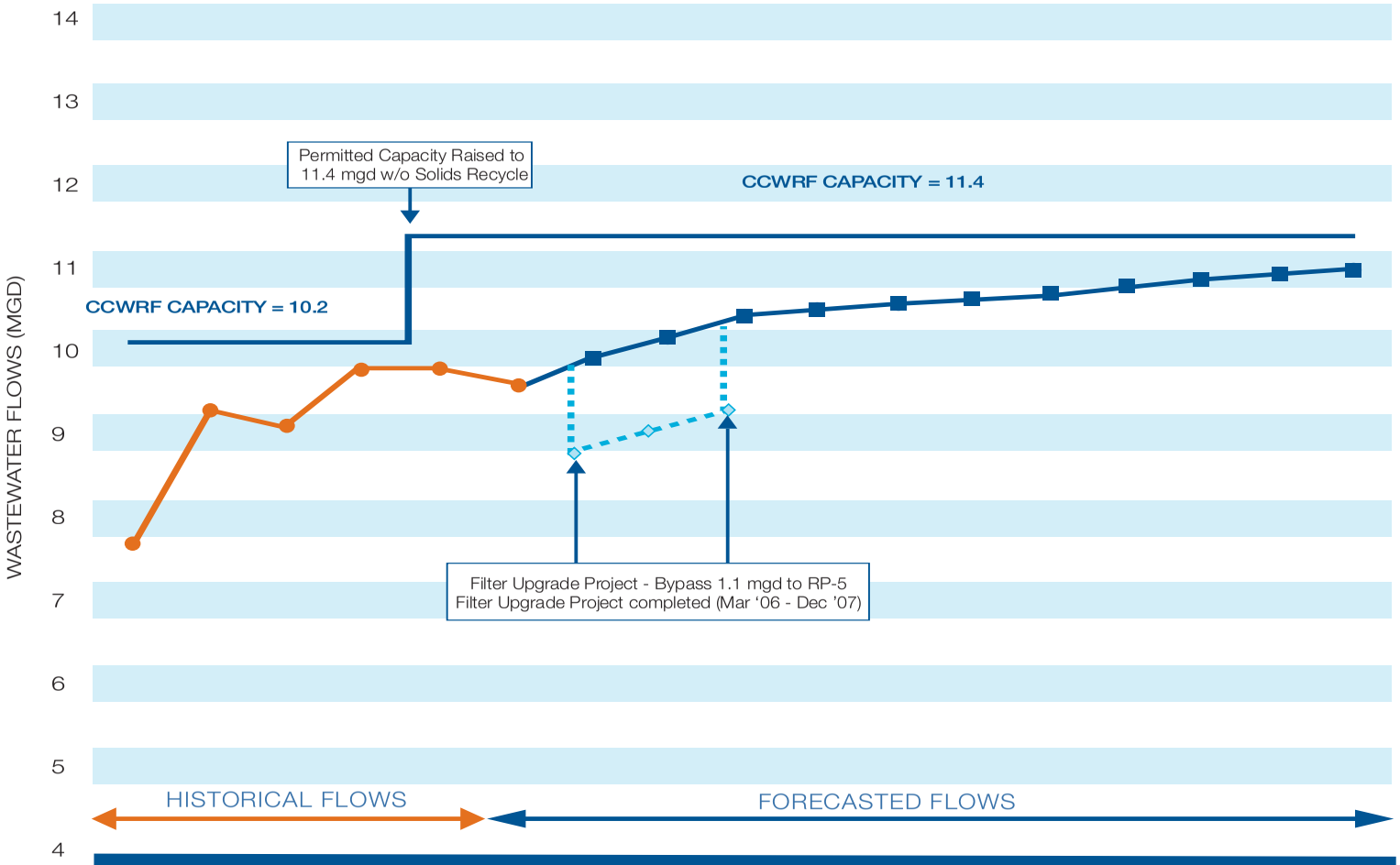
Exhibit VII: RP-4 Flow Forecast



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-4 Capacity	7	7	7	7	7	7	7	7									
RP-4 Capacity								14	14	14	14	14	14	14	14	14	14
RP-4 Unadjusted Flow Forecast	3.6	3.8	3.8	4.6	5.3	6	6.6156	7.1745	7.6762	8.1206	8.4937	8.8226	9.2014	9.5354	9.8783	10.203	10.51
RP-4 Adjusted Flow Forecast						5	5.6156	6.1745	6.6762								
RP-4 Adjusted Flow Forecast								9.7745	10.276	10.721	11.094	11.423	11.801	12.135	12.478	12.803	13.11

FISCAL YEAR

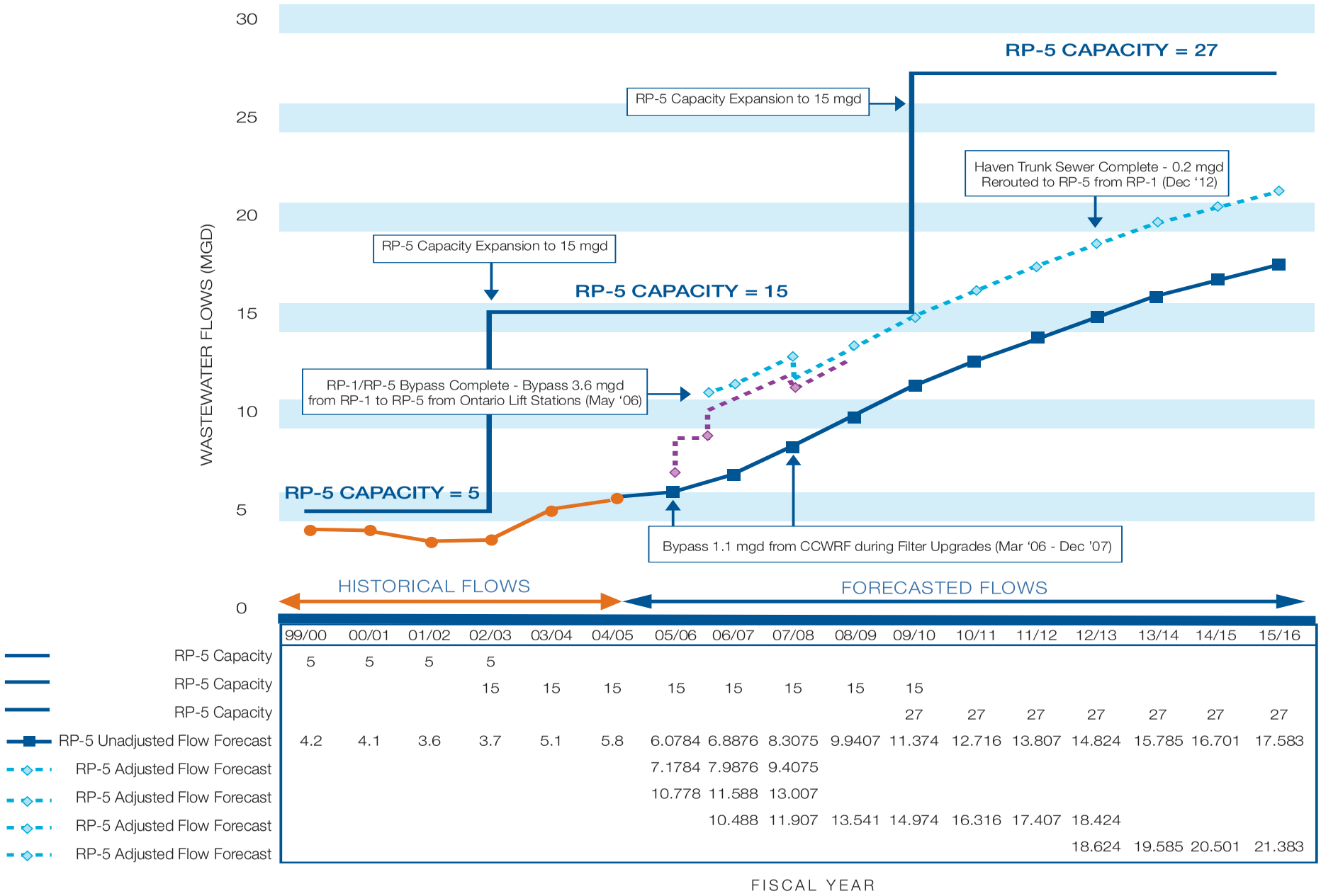
Exhibit VIII: CCWRFFlow Forecast (includes Montclair Diversion)



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
CCWRF Capacity	10.2	10.2	10.2	10.2	10.2												
CCWRF Capacity					11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
CCWRF Unadjusted Flow Forecast	7.7	9.3	9.1	9.8	9.8	9.6	9.8975	10.155	10.374	10.493	10.571	10.643	10.713	10.778	10.839	10.9	10.96
CCWRF Adjusted Flow Forecast							8.7975	9.0551	9.2744								

FISCAL YEAR

Exhibit IX: RP-5 Flow Forecast



	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16
RP-5 Capacity	5	5	5	5													
RP-5 Capacity				15	15	15	15	15	15	15	15						
RP-5 Capacity											27	27	27	27	27	27	27
RP-5 Unadjusted Flow Forecast	4.2	4.1	3.6	3.7	5.1	5.8	6.0784	6.8876	8.3075	9.9407	11.374	12.716	13.807	14.824	15.785	16.701	17.583
RP-5 Adjusted Flow Forecast							7.1784	7.9876	9.4075								
RP-5 Adjusted Flow Forecast							10.778	11.588	13.007								
RP-5 Adjusted Flow Forecast								10.488	11.907	13.541	14.974	16.316	17.407	18.424			
RP-5 Adjusted Flow Forecast														18.624	19.585	20.501	21.383

FISCAL YEAR

Exhibit X : Wastewater Program Capital Improvement (RC) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/07 2015/16
REVENUES AND OTHER FINANCING SOURCES												
Connection Fees	$ 20,800,000	$ 27,578,250	$ 32,812,164	$ 30,420,755	$ 27,789,814	$ 27,117,975	$ 25,757,299	$ 24,316,065	$ 24,436,186	$ 24,257,548	$ 24,368,144	$ 268,854,200
2006 Bond Proceeds	0	84,835,473	0	0	0	0	0	0	0	0	0	84,835,473
Proceeds from the sale of property	12,500	6,000,000	0	0	0	0	0	0	0	0	0	6,000,000
Tax Revenue	11,962,867	19,008,368	20,232,244	21,170,645	22,122,761	23,086,266	24,087,670	25,128,381	26,209,855	27,333,603	28,501,187	236,880,981
Contract Work	4,600,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	420,000	4,200,000
Lease Revenue	28,000	0	0	0	0	0	0	0	0	0	0	0
Interest Revenue	1,709,451	2,529,317	3,983,236	2,138,080	1,587,146	1,219,461	1,397,056	1,533,497	1,449,123	1,460,190	1,474,793	18,771,899
Grants	1,764,228	5,723,936	3,453,936	0	0	0	0	0	0	0	0	9,177,873
SRF Loan		13,000,000	13,150,000	17,650,000	17,000,000	23,000,000	0	0	0	0	0	83,800,000
Loan from RO Fund	6,000,000	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Revenue - Spec Sales/ WC Loan Repay	8,500	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000
TOTAL REVENUES AND OTHER FINANCING SOURCES	**$ 46,885,546**	**$ 159,100,345**	**$ 74,056,581**	**$ 71,804,480**	**$ 68,924,721**	**$ 74,848,702**	**$ 51,667,025**	**$ 51,402,943**	**$ 52,520,164**	**$ 53,476,341**	**$ 54,769,126**	**$ 712,570,424**
EXPENSES												
Operations and Administration	$ 4,556,957	$ 5,632,472	$ 3,785,677	$ 3,846,828	$ 3,909,217	$ 3,977,977	$ 4,048,266	$ 4,045,118	$ 4,118,574	$ 4,193,674	$ 4,282,377	$ 41,840,178
Interest Expense - SARI Capacity/Other	44,801	42,145	39,330	36,346	33,183	29,831	26,277	22,510	18,517	14,284	14,284	276,707
Interest Expense - 1994 Bonds	4,227,560	4,069,010	3,898,910	3,721,776	3,521,435	3,319,697	3,122,056	3,122,056	3,122,056	3,122,056	3,122,056	34,141,108
Interest Expense - 1999 Bonds	216,058	173,960	128,713	79,850	27,250	0	0	0	0	0	0	409,773
Interest Expense - 2002 Bonds	796,250	959,200	996,200	1,029,375	1,058,775	1,084,000	1,104,863	815,400	788,000	712,125	684,375	9,232,313
Interest Expense - 2005 Bonds (Refinancing 99 bonds)	972,062	1,002,638	997,513	991,825	969,138	929,988	880,825	823,213	762,900	694,644	694,644	8,747,325
Interest Expense - 2006 Bonds	0	2,172,901	4,282,110	4,150,776	4,013,125	3,868,651	3,716,439	3,554,227	3,381,511	3,196,449	3,000,129	35,336,318
Other Interest Expenses -SRF/RO Loan	0	40,000	162,500	641,839	1,041,225	1,423,333	1,937,731	1,853,105	1,766,363	1,677,452	1,586,319	12,129,865
Contract Work/Special Projects	611,929	4,141,950	3,544,110	400,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	8,786,060
Monthly NRWS Capacity Fees/4R's	394,209	429,732	435,237	448,294	461,743	475,595	489,863	504,559	519,696	535,287	551,345	4,851,351
TOTAL EXPENSES	**$ 11,819,826**	**$ 18,664,007**	**$ 18,270,299**	**$ 15,346,908**	**$ 15,135,090**	**$ 15,209,071**	**$ 15,426,320**	**$ 14,840,187**	**$ 14,577,617**	**$ 14,245,970**	**$ 14,035,529**	**$ 155,750,998**
CAPITAL OUTLAY												
Work In Progress- RC	$ 63,565,599	$ 115,447,586	$ 42,329,321	$ 39,278,808	$ 35,313,367	$ 26,112,062	$ 27,892,560	$ 20,255,064	$ 16,505,902	$ 31,416,824	$ 23,080,979	$ 377,632,473
TOTAL CAPITAL OUTLAY	**$ 63,565,599**	**$ 115,447,586**	**$ 42,329,321**	**$ 39,278,808**	**$ 35,313,367**	**$ 26,112,062**	**$ 27,892,560**	**$ 20,255,064**	**$ 16,505,902**	**$ 31,416,824**	**$ 23,080,979**	**$ 377,632,473**
DEBT PAYMENTS												
Principal Payment - 1994 Bonds	$ 2,185,000	$ 2,345,000	$ 2,515,000	$ 2,690,000	$ 2,890,000	$ 3,095,000	$ 3,290,000	$ 3,290,000	$ 3,290,000	$ 3,290,000	$ 3,290,001	$ 29,985,001
Principal Payment - 1999 Bonds	905,000	945,000	990,000	1,040,000	1,090,000	0	0	0	0	0	0	4,065,000
Principal Payment - 2002A Bonds	520,000	540,000	565,000	585,000	610,000	635,000	660,000	685,000	685,000	685,000	685,000	6,335,000
Principal Payment - 2005A Bonds (1999 Bonds Refinancing)	1,285,000	155,000	160,000	165,000	1,320,000	1,290,000	1,325,000	1,390,000	1,445,000	1,505,000	1,505,000	10,260,000
Principal Payment - 2006 Bonds	0	1,825,000	3,710,000	3,845,000	3,980,000	4,125,000	4,280,000	4,440,000	4,615,000	4,800,000	4,995,000	40,615,000
Principal Payment - SAWPA Pipeline Capacity Note	44,262	46,917	49,732	52,716	55,879	59,231	62,785	66,552	70,545	74,778	74,778	613,913
Principal Payment - SRF Loan	0	0	257,456	1,024,560	1,715,675	2,424,068	3,385,054	3,469,680	3,556,422	3,645,333	3,736,466	23,214,716
RO Fund Loan	0	6,000,000	0	0	0	0						6,000,000
TOTAL DEBT PAYMENTS	**$ 4,939,262**	**$ 11,856,917**	**$ 8,247,188**	**$ 9,402,276**	**$ 11,661,554**	**$ 11,628,299**	**$ 13,002,839**	**$ 13,341,232**	**$ 13,661,967**	**$ 14,000,111**	**$ 14,286,245**	**$ 121,088,630**

Exhibit X : Wastewater Program Capital Improvement (RC) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/2015	2015/16	Total FY 2006/07 2015/16
OPERATING TRANFERS IN (OUT)												
Capital Contribution to GG	($981,898)	($ 1,924,184)	($382,316)	($918,124)	($878,805)	($932,000)	($932,000)	($466,000)	($466,000)	($466,000)	($466,000)	($7,831,429)
Capital Contribution to OM	(7,400,000)	(2,200,000)	2,310,000	2,350,000	0	0	0	(117,000)	(94,000)	(102,000)	(102,000)	2,045,000
Capital/Admin Support, WC	(9,000,000)	(5,500,000)	(3,000,000)	0	(700,000)	(1,000,000)	(700,000)	0	400,000	700,000	0	(9,800,000)
Debt Service, Co-Composting	(676,929)	(786,847)	(815,347)	(847,047)	(871,635)	(894,247)	(724,688)	(727,313)	(724,375)	(726,063)	(726,062)	(7,843,624)
Debt Service, Recharge Water	(535,783)	(608,415)	(627,552)	(650,415)	(671,727)	(691,415)	(709,458)	(608,070)	(607,470)	(588,220)	(587,533)	(6,350,275)
Debt Service, Ro to RC	0	399,790	799,211	799,578	799,313	799,365	799,644	728,338	732,021	735,716	739,510	7,332,486
Replacement Capital from RO/TO	0	6,500,000	3,000,000	3,000,000	3,000,000	4,000,000	4,000,000	4,000,000	5,000,000	5,000,000	7,000,000	44,500,000
Obligation Payment	1,934,595	(628,992)	712,628	1,084,253	(2,366)	0	(85,837)	(86,695)	(87,562)	(91,940)	(96,537)	716,952
Recharge Water Fund	(1,680,000)	(2,000,000)	(3,100,000)	0	0	0	0	0	0	0	0	(5,100,000)
TOTAL OPERATING TRANFERS IN (OUT)	**($18,340,015)**	**($ 6,748,648)**	**($1,103,376)**	**$ 4,818,245**	**$ 674,780**	**$ 1,281,703**	**$ 1,647,661**	**$ 2,723,260**	**$ 4,152,614**	**$ 4,461,493**	**$ 5,761,383**	**$ 17,669,106**
FUND BALANCE												
Net Income (Loss)	($51,779,156)	$ 6,383,187	$ 4,106,397	$12,594,733	$ 7,489,490	$ 23,180,973	($3,007,033)	$ 5,689,720	$ 11,927,292	($1,725,071)	$ 9,127,756	$ 75,767,435
Beginning Fund Balance July 01	$ 73,435,900	$ 21,656,744	$ 28,039,931	$32,146,328	$44,741,061	$ 52,230,551	$ 75,411,524	$ 72,404,491	$ 78,094,211	$ 90,021,503	$ 88,296,432	583,042,776
ENDING FUND BALANCE AT JUNE 30	**$ 21,656,744**	**$ 28,039,931**	**$ 32,146,328**	**$44,741,061**	**$52,230,551**	**$ 75,411,524**	**$ 72,404,491**	**$ 78,094,211**	**$ 90,021,503**	**$ 88,296,432**	**$ 97,424,188**	**$ 658,810,211**
RESERVE BALANCE SUMMARY												
Capital Asset and Construction	$ 1,870,355	$ 1,452,219	$ 1,385,709	$ 1,326,492	$ 1,390,066	$ 1,387,130	$ 1,307,085	$ 1,315,367	$ 1,314,123	$ 1,359,136	$ 1,356,116	$ 13,593,440
CCRA Capital Construction	7,460,844	4,327,886	8,919,148	21,572,001	28,981,998	52,191,164	49,338,819	55,024,680	66,954,810	65,184,841	74,318,836	426,814,180
Capital Cash Flow Support	886,752	821,033	402,678	403,775	419,694	394,437	319,794	315,371	313,777	313,662	310,443	4,014,661
Debt Service & Redemption	11,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	21,438,793	214,387,930
ENDING RESERVE BALANCE AT JUNE 30	**$ 21,656,744**	**$ 28,039,931**	**$ 32,146,328**	**$44,741,061**	**$52,230,551**	**$ 75,411,524**	**$ 72,404,491**	**$ 78,094,211**	**$ 90,021,503**	**$ 88,296,432**	**$ 97,424,188**	**$ 658,810,211**

Exhibit XI : Recycled Water Program (WC) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/2007 2015/2016
RECEIPTS												
Recycled Water Sales	$ 700,200	$ 974,952	$ 1,310,400	$ 1,490,400	$ 1,779,360	$ 1,958,400	$ 2,208,000	$ 2,832,000	$ 3,312,000	$ 3,696,000	$ 4,080,000	$ 23,641,512
MWD LPP Program	976,360	1,047,077	1,530,760	1,746,360	2,056,824	2,079,000	2,079,000	2,079,000	2,079,000	2,079,000	2,079,000	18,855,021
Contract Work	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000
Grants (SAWPA, SWRCB)	5,000,000	8,125,000	8,875,000	7,500,000	5,000,000	4,000,000	0	0	0	0	0	33,500,000
Loan Proceeds	0	17,850,000	15,150,000	8,000,000	7,500,000	1,500,000	0	0	0	0	0	50,000,000
Interest Revenue	92,447	157,291	167,948	121,784	153,665	206,315	201,728	200,614	214,223	224,749	225,334	1,873,651
Other Revenue	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL RECEIPTS	**$ 6,784,007**	**$ 28,169,320**	**$ 27,049,108**	**$ 18,873,544**	**$ 16,504,849**	**$ 9,758,715**	**$ 4,503,728**	**$ 5,126,614**	**$ 5,620,223**	**$ 6,014,749**	**$ 6,399,334**	**$ 128,020,184**
EXPENSES												
Operations / Administrative Expenses	$ 1,420,379	$ 2,305,549	$ 2,353,469	$ 2,402,355	$ 2,452,739	$ 2,564,036	$ 2,626,427	$ 2,688,206	$ 2,752,397	$ 2,819,247	$ 2,889,051	$ 25,853,475
Interest Expense	366,655	349,644	336,594	479,714	710,973	764,060	734,730	704,672	673,870	642,304	609,955	6,006,516
Contract Work	52,500	65,000	65,000	40,000	31,000	50,000	5,000	5,000	5,000	10,000	0	276,000
Special Projects	654,480	741,365	275,000	275,000	0	0	0	0	0	0	0	1,291,365
TOTAL EXPENSES	**$ 2,494,014**	**$ 3,461,558**	**$ 3,030,063**	**$ 3,197,069**	**$ 3,194,712**	**$ 3,378,095**	**$ 3,366,156**	**$ 3,397,879**	**$ 3,431,267**	**$ 3,471,550**	**$ 3,499,006**	**$ 33,427,355**
CAPITAL OUTLAY												
Work In Progress	$ 8,902,567	$ 47,986,226	$ 23,913,251	$ 7,656,371	$ 9,227,006	$ 4,849,516	$ 1,758,888	$ 3,018,833	$ 1,325,000	$ 4,382,694	$ 41,879,595	$ 145,997,380
TOTAL CAPITAL OUTLAY	**$ 8,902,567**	**$ 47,986,226**	**$ 23,913,251**	**$ 7,656,371**	**$ 9,227,006**	**$ 4,849,516**	**$ 1,758,888**	**$ 3,018,833**	**$ 1,325,000**	**$ 4,382,694**	**$ 41,879,595**	**$ 145,997,380**
SHORT-TERM LIABILITIES												
Loan Payment - SRF Loan	$ 595,844	$ 612,854	$ 625,904	$ 1,132,784	$ 1,236,525	$ 1,183,439	$ 1,212,769	$ 1,242,826	$ 1,273,628	$ 1,305,195	$ 1,337,544	$ 11,163,469
NET CHANGE, SHORT-TERM LIABILITIES	**$ 595,844**	**$ 612,854**	**$ 625,904**	**$ 1,132,784**	**$ 1,236,525**	**$ 1,183,439**	**$ 1,212,769**	**$ 1,242,826**	**$ 1,273,628**	**$ 1,305,195**	**$ 1,337,544**	**$ 11,163,469**
OTHER FINANCING SOURCES (USES)												
Operating Transfer -Recycled Water from "RC"	$ 9,000,000	$ 17,500,000	$ 1,000,000	$ 1,600,000	$ 4,000,000	$ 4,200,000	$ 12,000,000	$ 8,100,000	$ 7,700,000	$ 8,000,000	$ 19,000,000	$ 83,100,000
Capital Equipment Transfer to GG	(21,071)	(61,937)	(13,947)	(33,494)	(32,059)	(34,000)	(34,000)	(17,000)	(17,000)	(17,000)	(17,000)	(277,437)
Operatin Transer- TO Fund, Pumping Cost Reimb.	(211,855)	(221,742)	(289,363)	(319,505)	(362,910)	(401,319)	(516,720)	(723,408)	(861,200)	(964,544)	(1,067,888)	(5,728,599)
TOTAL OTHER FINANCING SOURCES (USES)	**$ 8,767,074**	**$ 17,216,321**	**($3,303,310)**	**($1,752,999)**	**$ 2,605,031**	**$ 764,681**	**$ 7,449,280**	**$ 4,359,592**	**$ 2,621,800**	**$ 3,018,456**	**$ 12,915,112**	**$ 77,093,964**
INCREASE (DECREASE) IN WORKING CAPITAL RESERVES	**$ 3,558,656**	**($6,674,997)**	**($3,823,420)**	**$ 5,134,320**	**$ 5,451,637**	**$ 1,112,346**	**$ 5,615,195**	**$ 1,826,668**	**$ 2,212,128**	**($126,234)**	**($27,401,698)**	**$ 14,525,944**
FUND BALANCE												
Net Income (Loss)	$ 3,558,656	($6,674,997)	($3,823,420)	$ 5,134,320	$ 5,451,637	$ 1,112,346	$ 5,615,195	$ 1,826,668	$ 2,212,128	($126,234)	($27,401,698)	($16,674,056)
Beginning Balance July 01	1,587,324	5,145,980	(1,529,017)	(5,352,437)	(218,117)	5,233,520	6,345,866	11,961,061	13,787,729	15,999,857	15,873,623	67,248,060
ENDING BALANCE AT JUNE 30	**$ 5,145,980**	**($1,529,017)**	**($5,352,437)**	**($218,117)**	**$ 5,233,520**	**$ 6,345,866**	**$ 11,961,061**	**$ 13,787,729**	**$ 15,999,857**	**$ 15,873,623**	**($11,528,075)**	**$ 50,574,006**
RESERVE BALANCE SUMMARY												
Operating Contingency	$ 897,262	$ 865,391	$ 757,516	$ 799,266	$ 798,677	$ 844,524	$ 841,539	$ 849,470	$ 857,817	$ 867,888	$ 874,751	$ 8,356,838
Cash Flow Support	4,148,715	(2,494,408)	(6,209,953)	(1,117,384)	4,334,843	5,401,342	11,019,521	12,838,259	15,042,040	14,905,734	(12,502,828)	41,217,166
Capital Replacement	100,003	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,001	100,001	1,000,002
ENDING RESERVE BALANCE AT JUNE 30	**$ 5,145,980**	**($1,529,017)**	**($5,352,437)**	**($218,117)**	**$ 5,233,520**	**$ 6,345,866**	**$ 11,961,061**	**$ 13,787,729**	**$ 15,999,857**	**$ 15,873,623**	**($11,528,075)**	**$ 50,574,006**

Exhibit XII : Recharge Water Program (RW) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/07 2015/16
REVENUES												
Contract Cost Reimbursment	1,078,785	2,841,424	2,827,472	2,750,675	1,616,123	1,708,127	1,747,552	1,668,094	1,689,988	1,693,813	1,716,801	20,260,068
Grants	125,691	5,250,000	0	0	0	0	0	0	0	0	0	5,250,000
Interest Revenue	38,163	15,597	10,627	15,415	23,930	26,140	28,523	28,227	29,315	30,365	31,365	239,504
Other Revenues	0	0	0	0	0	0	0	0	0	0	0	0
REVENUES Total	**$ 1,242,639**	**$ 8,107,021**	**$ 2,838,099**	**$ 2,766,090**	**$ 1,640,053**	**$ 1,734,267**	**$ 1,776,075**	**$ 1,696,321**	**$ 1,719,302**	**$ 1,724,178**	**$ 1,748,165**	**$ 25,749,572**
EXPENSES												
Employment Expenses	650,946	705,275	716,227	730,984	746,044	761,417	778,826	796,727	815,134	834,063	853,527	7,738,223
Professional Services	717,081	1,349,231	1,232,134	1,249,690	1,272,836	1,336,456	1,349,781	1,363,419	1,377,379	1,391,672	1,406,307	13,328,904
Operating Expenses	91,233	168,024	175,159	178,941	182,837	186,852	191,889	197,078	202,424	207,932	213,607	1,904,745
Laboratory Services	470,000	686,700	687,550	688,653	689,811	691,027	691,793	692,582	693,394	694,231	695,093	6,910,833
Feasabillity Studies	0	363,000	746,000	300,000	0	0	0	0	0	0	0	1,409,000
Other Expenses	58,824	76,629	76,591	77,067	77,557	78,062	78,694	79,229	79,781	80,349	80,935	784,894
EXPENSES Total	**$ 1,988,084**	**$ 3,348,859**	**$ 3,633,660**	**$ 3,225,335**	**$ 2,969,085**	**$ 3,053,814**	**$ 3,090,982**	**$ 3,129,035**	**$ 3,168,113**	**$ 3,208,247**	**$ 3,249,469**	**$ 32,076,599**
CAPITAL OUTLAY												
Work In Progress	4,491,911	7,417,842	4,150,000	0	0	0	0	0	0	0	0	11,567,842
CAPITAL OUTLAY Total	**$ 4,491,911**	**$ 7,417,842**	**$ 4,150,000**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 0**	**$ 11,567,842**
DEBT PAYMENTS												
Interest Expenses	584,417	738,000	766,275	792,000	814,625	834,000	849,975	627,200	606,000	547,500	526,125	7,101,700
Principal Payment	400,000	420,000	430,000	450,000	470,000	490,000	510,000	530,000	550,000	570,000	590,000	5,010,000
DEBT PAYMENTS Total	**$ 984,417**	**$ 1,158,000**	**$ 1,196,275**	**$ 1,242,000**	**$ 1,284,625**	**$ 1,324,000**	**$ 1,359,975**	**$ 1,157,200**	**$ 1,156,000**	**$ 1,117,500**	**$ 1,116,125**	**$ 12,111,700**
OPERATING TRANSFERS IN (OUT)												
Capital Contribution	1,340,000	1,000,000	3,000,000	0	0	0	0	0	0	0	0	4,000,000
Debt Service	535,783	608,415	627,552	650,415	671,727	691,415	709,458	608,070	607,470	588,220	587,533	6,350,275
Operation Support	1,388,062	2,157,020	2,374,911	1,353,745	1,965,860	1,978,272	1,993,947	2,010,070	2,026,654	2,043,713	2,061,260	19,965,453
OPERATING TRANSFERS IN (OUT) Total	**$ 3,263,845**	**$ 3,765,435**	**$ 6,002,463**	**$ 2,004,160**	**$ 2,637,587**	**$ 2,669,687**	**$ 2,703,405**	**$ 2,618,140**	**$ 2,634,124**	**$ 2,631,933**	**$ 2,648,793**	**$ 30,315,728**
Increase (decrease) in Working capital	**($2,957,928)**	**($52,245)**	**($139,373)**	**$ 302,915**	**$ 23,930**	**$ 26,140**	**$ 28,523**	**$ 28,226**	**$ 29,314**	**$ 30,364**	**$ 31,365**	**$ 309,159**
WORKING CAPITAL SUMMARY												
Beginning Balance July 01	3,427,968	470,040	417,795	278,422	581,337	605,267	631,407	659,930	688,157	717,471	747,834	5,797,661
Reserve Increase/(Decrease)	(2,957,928)	(52,245)	(139,373)	302,915	23,930	26,140	28,523	28,226	29,314	30,364	31,365	309,159
ENDING BALANCE AT JUNE 30	**$ 470,040**	**$ 417,795**	**$ 278,422**	**$ 581,337**	**$ 605,267**	**$ 631,407**	**$ 659,930**	**$ 688,157**	**$ 717,471**	**$ 747,834**	**$ 779,199**	**$ 6,106,820**

Exhibit XIII : Nonreclaimable Wastewater Program (NC) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/07 2015/16
REVENUES												
Volumetric Revenue	2,218,881	2,598,787	2,567,010	2,631,622	2,698,173	2,766,721	2,837,325	2,910,047	2,984,951	3,062,102	3,141,567	28,198,304
Excess use Fees	691,276	1,899,305	1,956,284	2,014,973	2,075,422	2,137,685	2,244,569	2,356,797	2,474,637	2,598,369	2,728,287	22,486,327
Capacity Fees	2,032,182	2,321,758	2,391,410	2,463,153	2,537,047	2,613,159	2,691,554	2,772,300	2,855,469	2,941,133	3,029,367	26,616,350
Capacity Sold	1,278,924	791,846	515,000	530,450	546,364	562,754	579,637	597,026	614,937	633,385	652,387	6,023,786
Administrative Service Charges	1,287,790	1,437,613	1,480,741	1,525,163	1,570,918	1,618,046	1,666,587	1,716,585	1,768,082	1,821,125	1,875,758	16,480,618
Special/Reimbursable Contract Services	12,000	6,000	6,000	6,000	6,000	6,000	12,000	12,000	12,000	12,000	12,000	90,000
Interest Revenue	185,842	181,750	102,296	65,418	24,372	6,750	6,000	5,250	4,500	3,750	3,000	403,086
Other Revenue	267,875	263,646	265,462	267,331	269,257	271,240	273,283	275,388	277,556	256,289	282,089	2,701,540
TOTAL REVENUES	**$ 7,974,770**	**$ 9,500,704**	**$ 9,284,203**	**$ 9,504,110**	**$ 9,727,553**	**$ 9,982,354**	**$ 10,310,955**	**$ 10,645,393**	**$ 10,992,132**	**$ 11,328,152**	**$ 11,724,455**	**$ 103,000,012**
EXPENSES												
Operations	4,513,323	6,659,808	6,844,555	7,035,443	7,231,801	7,433,804	7,687,156	8,011,983	8,352,001	8,706,552	9,079,776	77,042,881
Contract Work/Special Projects	981,000	578,900	6,000	6,000	6,000	6,000	12,000	12,000	12,000	12,001	12,001	662,902
TOTAL EXPENSES	**$ 5,494,323**	**$ 7,238,708**	**$ 6,850,555**	**$ 7,041,443**	**$ 7,237,801**	**$ 7,439,804**	**$ 7,699,156**	**$ 8,023,983**	**$ 8,364,001**	**$ 8,718,553**	**$ 9,091,777**	**$ 77,705,783**
CAPITAL OUTLAY												
Work-In-Progress	3,006,623	3,583,774	2,754,312	3,720,000	20,000	20,000	20,000	20,000	0	0	0	10,138,086
CSDLAC 4Rs	1,800,000	1,822,000	2,139,000	2,829,000	2,526,000	2,417,000	2,125,000	1,433,000	1,431,045	1,431,045	1,431,045	19,584,135
TOTAL CAPITAL OUTLAY	**$ 4,806,623**	**$ 5,405,774**	**$ 4,893,312**	**$ 6,549,000**	**$ 2,546,000**	**$ 2,437,000**	**$ 2,145,000**	**$ 1,453,000**	**$ 1,431,045**	**$ 1,431,045**	**$ 1,431,045**	**$ 29,722,221**
DEBT PAYMENTS												
Principal payments	88,523	93,835	99,465	105,432	111,758	118,463	125,570	133,105	141,091	141,091	141,091	1,210,901
Interest payments	89,602	84,291	78,661	72,693	66,367	59,661	52,554	45,019	37,033	37,033	37,033	570,345
TOTAL DEBT PAYMENTS	**$ 178,125**	**$ 178,126**	**$ 178,126**	**$ 178,125**	**$ 178,125**	**$ 178,124**	**$ 178,124**	**$ 178,124**	**$ 178,124**	**$ 178,124**	**$ 178,124**	**$ 1,781,246**
TRANSFERS IN (OUT)												
Captial Equipment Transfers to GG	(69,280)	(78,454)	(13,947)	(35,257)	(32,059)	(34,000)	(17,000)	(17,000)	(17,000)	(17,000)	(17,000)	(278,717)
Capital Replacement Transfer From RC	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL TRANSFERS IN (OUT)	**($69,280)**	**($78,454)**	**($13,947)**	**($35,257)**	**($32,059)**	**($34,000)**	**($17,000)**	**($17,000)**	**($17,000)**	**($17,000)**	**($17,000)**	**($278,717)**
FUND BALANCE												
Net Income (Loss)	(2,573,581)	(3,400,358)	(2,651,738)	(4,299,716)	(266,432)	(106,574)	271,674	973,287	1,001,962	983,430	1,006,509	(6,487,955)
Beginning Balance July 01	17,594,793	15,021,212	11,620,854	8,969,117	4,669,401	4,402,969	4,296,395	4,568,069	5,541,356	6,543,317	7,526,748	73,159,437
ENDING BALANCE AT JUNE 30	**$ 15,021,212**	**$ 11,620,854**	**$ 8,969,117**	**$ 4,669,401**	**$ 4,402,969**	**$ 4,296,395**	**$ 4,568,069**	**$ 5,541,356**	**$ 6,543,317**	**$ 7,526,748**	**$ 8,533,257**	**$ 66,671,482**
RESERVE BALANCE SUMMARY												
Operating Contingency	520,589	538,465	549,599	561,266	573,197	585,404	575,619	584,650	593,783	602,549	612,069	5,776,601
CSDLAC Prepayment	1,782,110	2,139,838	2,204,033	2,270,154	2,338,259	2,408,407	2,528,827	2,655,268	2,788,032	2,927,433	3,073,805	25,334,055
Capital Expansion	12,718,513	8,942,551	6,215,485	1,837,981	1,491,513	1,302,584	1,463,623	2,301,437	3,161,503	3,996,765	4,847,383	35,560,826
ENDING RESERVE BALANCE AT JUNE 30	$ 15,021,212	$ 11,620,854	$ 8,969,117	$ 4,669,401	$ 4,402,969	$ 4,296,395	$ 4,568,069	$ 5,541,356	$ 6,543,317	$ 7,526,748	$ 8,533,257	$ 66,671,482

Exhibit XIV : Organics Management Program (OM) Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/07 2015/2016
REVENUES												
Proceeds from Sales of Property	8,158,000	0	2,339,250	2,339,250	0	0	0	0	0	0	0	4,678,500
Interest Revenue	41,261	28,082	20,379	25,015	29,103	30,882	33,309	34,761	37,501	41,507	44,603	325,142
Other Revenue	0	0	32,016	32,016	32,016	32,016	32,016	32,016	32,016	32,016	32,016	288,144
IERCA Cost Reimbursement	404,823	1,953,700	1,992,774	2,032,629	2,073,282	2,114,748	2,157,043	2,200,184	2,244,187	2,289,071	2,334,852	21,392,470
TOTAL REVENUES	$ 8,604,084	$ 1,981,782	$ 4,384,419	$ 4,428,910	$ 2,134,401	$ 2,177,646	$ 2,222,368	$ 2,266,961	$ 2,313,704	$ 2,362,594	$ 2,411,471	$ 26,684,256
EXPENSES												
Professional Fees and Services	67,116	100,025	107,088	107,281	107,480	107,684	107,888	108,098	108,314	108,537	108,766	1,071,160
Operation Expenses	5,288	0	0	0	0	0	0	0	0	0	0	0
Special Projects	170,000	100,000	10,000	0	0	0	0	0	0	0	0	110,000
Financial and Interest Expenses	416,929	516,847	535,347	552,047	566,635	579,247	439,890	428,078	415,703	402,765	389,453	4,826,012
Staff's Salaries/Burden/OH & Other Allocations-IERCA	292,717	1,947,435	1,986,384	2,026,111	2,066,634	2,107,966	2,150,126	2,193,128	2,236,991	2,281,730	2,327,365	21,323,870
Staff's Salaries/Burden/OH & Other Allocations	945,440	106,341	391,463	402,123	413,080	424,344	432,831	441,487	450,317	459,323	468,510	3,989,818
TOTAL EXPENSES	$ 1,897,489	$ 2,770,648	$ 3,030,282	$ 3,087,562	$ 3,153,829	$ 3,219,241	$ 3,130,734	$ 3,170,791	$ 3,211,325	$ 3,252,355	$ 3,294,093	$ 31,320,860
CAPITAL OUTLAY												
Investment in IERCA	16,214,496	2,737,570	867,500	877,920	888,330	898,860	916,831	935,168	953,871	972,949	992,408	11,041,407
Work In Progress	40,000	636,399	0	0	0	0	0	0	0	0	0	636,399
TOTAL CAPITAL OUTLAY	$ 16,254,496	$ 3,373,969	$ 867,500	$ 877,920	$ 888,330	$ 898,860	$ 916,831	$ 935,168	$ 953,871	$ 972,949	$ 992,408	$ 11,677,806
DEBT PAYMENTS												
Principal Payment - Co-Composting Bonds - 1990/2002A	260,000	270,000	280,000	295,000	305,000	315,000	330,000	345,000	355,000	370,000	385,000	3,250,000
TOTAL DEBT PAYMENTS	$ 260,000	$ 270,000	$ 280,000	$ 295,000	$ 305,000	$ 315,000	$ 330,000	$ 345,000	$ 355,000	$ 370,000	$ 385,000	$ 3,250,000
OPERATING TRANSFERS IN (OUT)												
Operating Transfer - Debt Service (RC)	676,929	786,847	815,347	847,047	871,635	894,247	736,500	739,688	737,313	739,375	741,063	7,909,062
Operating Transfer - Capital Contribution (RC)	7,400,000	2,200,000	(2,310,000)	(2,350,000)	0	0	50,000	0	55,000	30,000	35,000	(2,290,000)
Operating Transfers - IERCA Support (RO)	500,000	868,570	867,500	877,920	888,330	898,860	916,831	935,168	953,871	972,949	992,408	9,172,407
Operating Transfers - Operation Support (RO)	840,000	200,000	480,000	501,000	480,000	510,000	505,000	518,000	565,000	550,000	560,000	4,869,000
TOTAL OPERATING **TRANSFERS IN (OUT)**	$ 9,416,929	$ 4,055,417	($147,153)	($124,034)	$ 2,239,965	$ 2,303,107	$ 2,208,331	$ 2,192,856	$ 2,311,184	$ 2,292,324	$ 2,328,471	$ 19,660,469
INCREASE (DECREASE) IN WORKING CAPITAL RESERVES	($390,973)	($377,418)	$ 59,484	$ 44,395	$ 27,207	$ 47,652	$ 53,134	$ 8,857	$ 104,693	$ 59,614	$ 68,441	$ 96,059
FUND BALANCE												
Net Income (Loss)	($390,973)	($377,418)	$ 59,484	$ 44,395	$ 27,207	$ 47,652	$ 53,134	$ 8,857	$ 104,693	$ 59,614	$ 68,441	$ 96,059
Beginning Fund Balance July 01	1,304,549	913,576	536,158	595,642	640,037	667,245	714,896	768,030	776,887	881,580	941,194	7,435,245
ENDING FUND BALANCE AT JUNE 30	$ 913,576	$ 536,158	$ 595,642	$ 640,037	$ 667,245	$ 714,896	$ 768,030	$ 776,887	$ 881,580	$ 941,194	$ 1,009,635	$ 7,531,304
RESERVE BALANCE SUMMARY												
Capital Replacement	$ 296,754	$ 287,669	$ 317,732	$ 310,711	$ 303,674	$ 306,343	$ 331,120	$ 308,760	$ 348,637	$ 349,321	$ 365,205	$ 3,229,172
Operation Contingency Reserve	616,822	248,489	277,910	329,326	363,570	408,553	436,910	468,127	532,942	591,873	644,430	4,302,132
ENDING RESERVE BALANCE AT JUNE 30	$ 913,576	$ 536,158	$ 595,642	$ 640,037	$ 667,245	$ 714,896	$ 768,030	$ 776,887	$ 881,580	$ 941,194	$ 1,009,635	$ 7,531,304

Exhibit XV : Wastewater Program Operation and Maintenance Fund Sources and Uses of Funds

Category	2005/06 PROJECTED ACTUAL	2006/07 PROPOSED BUDGET	FORECAST 2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	Total FY 2006/07 2015/16
RECEIPTS												
Volumetric Revenues	$ 23,271,068	$ 26,290,157	$ 29,506,465	$ 32,779,610	$ 36,122,587	$ 39,419,522	$ 41,960,124	$ 43,932,951	$ 46,101,487	$ 48,290,663	$ 50,679,384	395,082,950
Bond Proceeds/Note	0	16,000,000	0	0	0	0						16,000,000
Contract Work and Other Users Charges	317,499	312,653	317,693	322,854	328,166	309,418	315,020	320,763	326,672	332,732	281,192	3,167,162
Tipping Fees	46,683	82,563	82,563	82,563	82,563	82,563	82,563	82,563	82,563	82,563	82,563	825,630
Organic Materials Revenue	15,265	17,554	18,081	18,623	19,182	19,182	19,182	19,182	19,182	19,182	19,182	188,532
Environment Benefit Credits	62,978	64,925	65,372	65,834	66,309	66,309	66,309	66,309	66,309	66,309	66,309	660,294
Gas Sales	170,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000	4,000,000
Interest Revenue	948,545	985,600	833,628	775,162	692,000	675,324	712,308	828,975	956,310	1,149,960	1,317,840	8,927,107
Tax Revenue	5,007,340	4,947,384	4,921,357	4,798,680	4,657,423	4,497,324	4,323,428	4,135,050	3,931,478	3,711,971	3,475,754	43,399,849
TOTAL RECEIPTS	**$ 29,839,377**	**$ 49,100,836**	**$ 36,145,159**	**$ 39,243,326**	**$ 42,368,230**	**$ 45,469,642**	**$ 47,878,934**	**$ 49,785,793**	**$ 51,884,001**	**$ 54,053,379**	**$ 56,322,225**	**$ 472,251,525**
EXPENSES												
Operations	30,158,265	34,751,994	34,433,736	34,760,980	35,228,438	35,973,608	37,088,373	37,950,660	38,832,903	39,495,576	40,192,248	368,708,516
Contract Work	109,090	109,090	101,210	101,210	101,210	101,210	101,210	103,234	105,299	107,405	109,553	1,040,631
Short Term Note to RC Fund	6,000,000	0	0	0	0	0	0	0	0	0	0	0
TOTAL EXPENSES	**$ 36,267,355**	**$ 34,861,084**	**$ 34,534,946**	**$ 34,862,190**	**$ 35,329,648**	**$ 36,074,818**	**$ 37,189,583**	**$ 38,053,894**	**$ 38,938,202**	**$ 39,602,981**	**$ 40,301,801**	**$ 369,749,147**
OTHER FINANCING SOURCES (USES)												
Operating Transfer - Property Tax Recovery	(157,389)	(162,105)	(166,963)	(171,550)	(175,834)	(179,347)	(182,930)	(183,845)	(184,764)	(185,688)	(186,616)	(1,779,643)
Operating Transfer - WC to RO (Tertiary Pumping Cost)	211,855	0	0	0	0	0	0	0	0	0	0	0
Operating Transfer - RC for Replacement Capital	0	(3,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(1,000,000)	(2,000,000)	(2,000,000)	(4,000,000)	(17,000,000)
Operating Transfer - Tertiary O&M Support	0	0	0	0	0	0	(1,030,000)	(1,060,900)	(1,092,727)	(1,125,509)	(1,159,274)	(5,468,410)
Operating Transfer - Recharge Water Programs	(1,388,062)	(2,157,020)	(2,374,911)	(1,353,745)	(1,965,860)	(1,978,272)	(1,993,947)	(2,010,070)	(2,026,654)	(2,043,713)	(2,061,260)	(19,965,452)
Operating Transfer -IEUA Compost Fac & IERCF Support	(500,000)	(868,570)	(867,500)	(877,920)	(888,330)	(898,860)	(935,174)	(953,877)	(972,955)	(992,414)	(1,022,186)	(9,277,787)
Transfer from RO to RC - RP1 Assessment	0	(3,500,000)	(3,000,000)	(2,000,000)	(2,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(2,600,000)	(28,100,000)
Debt Service Transfer from RO to RC	0	(399,790)	(799,211)	(799,578)	(799,313)	(799,365)	(799,644)	(728,338)	(732,021)	(735,716)	(739,510)	(7,332,485)
Operating Transfer - Organics Management Support	(960,000)	(200,000)	(480,000)	(501,000)	(480,000)	(510,000)	(562,275)	(590,389)	(619,908)	(650,904)	(670,431)	(5,264,906)
Operating Transfer- Water Fund-Water Conservation Program	(150,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(50,000)	(500,000)
TOTAL OTHER FINANCING SOURCES (USES)	**($2,943,596)**	**($10,337,486)**	**($8,738,585)**	**($6,753,792)**	**($7,359,336)**	**($8,415,844)**	**($9,553,970)**	**($9,577,419)**	**($10,679,029)**	**($10,783,943)**	**($12,489,278)**	**($94,688,683)**
INCREASE (DECREASE) IN WORKING CAPITAL RESERVES	**($9,371,574)**	**$ 3,902,266**	**($7,128,372)**	**($2,372,657)**	**($320,754)**	**$ 978,980**	**$ 1,135,381**	**$ 2,154,480**	**$ 2,266,770**	**$ 3,666,455**	**$ 3,531,146**	**$ 7,813,695**
WORKING CAPITAL SUMMARY												
Beginning Balance July 01	27,984,641	18,613,067	22,515,333	15,386,961	13,014,304	12,693,550	$ 13,672,530	$ 14,807,911	$ 16,962,391	$ 19,229,161	$ 22,895,616	169,790,824
Reserve Increase/(Decrease)	(9,371,574)	3,902,266	(7,128,372)	(2,372,657)	(320,754)	978,980	1,135,381	2,154,480	2,266,770	3,666,455	3,531,146	7,813,695
ENDING BALANCE AT JUNE 30	**$ 18,613,067**	**$ 22,515,333**	**$ 15,386,961**	**$ 13,014,304**	**$ 12,693,550**	**$ 13,672,530**	**$ 14,807,911**	**$ 16,962,391**	**$ 19,229,161**	**$ 22,895,616**	**$ 26,426,762**	**$ 177,604,519**
RESERVE BALANCE SUMMARY												
Operating Contingencies	12,089,118	11,620,361	11,511,649	11,620,730	11,776,549	12,024,939	12,396,528	12,684,631	12,979,401	13,200,994	13,433,934	123,249,716
Capital Replacement	6,523,949	10,894,972	3,875,312	1,393,574	917,001	1,647,591	2,411,383	4,277,760	6,249,760	9,694,622	12,992,828	54,354,803
ENDING BALANCE AT JUNE 30	**$ 18,613,067**	**$ 22,515,333**	**$ 15,386,961**	**$ 13,014,304**	**$ 12,693,550**	**$ 13,672,530**	**$ 14,807,911**	**$ 16,962,391**	**$ 19,229,161**	**$ 22,895,616**	**$ 26,426,762**	**$ 177,604,519**



Appendices

2006/07 Ten-Year Capital Improvement Plan
Incremental EDU Growth Data

AGENCY	YEAR	RP-1	RP-4	RP-1/RP-4	CCWRF	RP-1/5	RP-2/RP-5	RP-5	SUM
	6/30/02 Baseline	**12,683**	**15,745**	**19,262**					**47,690**
	6/30/03 Baseline	**13,411**	**16,640**	**20,534**					**50,585**
	6/30/04 Baseline	**14,682**	**17,922**	**22,316**					**54,920**
	6/30/05 Baseline	**14,811**	**18,101**	**22,509**					**55,421**
CVWD	05/06	311	380	472					1,163
	06/07	302	370	460					1,132
Items shown in	07/08	293	358	445					1,096
"RP-1/RP-4" column are	08/09	283	346	430					1,059
currently in RP-1, but may in	09/10	272	332	414					1,018
future bypass to RP-4, as the	10/11	260	318	396					974
RP-4 Trunk Sewer is constructed.	11/13	248	303	377					928
	12/14	235	287	357					879
	13/14	221	270	336					827
	14/15	207	253	314					774
	15/16	192	235	292					719
TEN-YR TOTALS		**2,513**	**3,072**	**3,821**					**9,406**
	6/30/02 Baseline	**9,768**	**8,918**	**23,783**					**42,469**
	6/30/03 Baseline	**10,535**	**10,082**	**23,863**					**44,480**
	6/30/04 Baseline	**12,306**	**13,725**	**21,298**					**47,329**
	6/30/05 Baseline	**12,590**	**14,043**	**21,791**					**48,424**
FONTANA	05/06	120	1,900	80					2,100
	06/07	130	1,700	75					1,905
Flow from the "RP-1/RP-4"	07/08	125	1,500	65					1,690
service area currently goes to	08/09	110	1,300	60					1,470
RP-1, but may in future go to	09/10	100	1,050	55					1,205
RP-4 when San Bernardino Ave.	10/11	90	900	50					1,040
Interceptor and Pump Station is	11/13	100	1,100	55					1,255
constructed.	12/14	95	950	45					1,090
	13/14	100	1,000	50					1,150
	14/15	95	950	45					1,090
	15/16	90	900	40					1,030
TEN-YR TOTALS		**1,035**	**11,350**	**540**					**12,925**
	6/30/02 Baseline	**732**			**10,703**				**11,435**
	6/30/03 Baseline	**728**			**10,649**				**11,378**
	6/30/04 Baseline	**720**			**10,536**				**11,256**
	6/30/05 Baseline	**731**			**10,511**				**11,242**
MONTCLAIR	05/06	100			25				125
	06/07	100			50				150
Items shown in "RP-1" column	07/08	100			100				200
go directly to RP-1. Items	08/09	50			100				150
shown in "CCWRF" column	09/10	50			100				150
flow directly to CCWRF unless	10/11	50			75				125
diverted to RP-1. This	11/13	50			75				125
breakdown assumes no	13/14	50			75				125
diversions.	13/14	50			75				125
	14/15	50			75				125
	15/16	50			75				125
TEN-YR TOTALS		**600**			**800**				**1,400**
	6/30/02 Baseline	**57,660**						**0**	**57,660**
	6/30/03 Baseline	**58,415**						**0**	**58,415**
	6/30/04 Baseline	**45,437**				**12,978**		**0**	**58,415**
	6/30/05 Baseline	**46,037**				**13,182**		**0**	**59,219**
ONTARIO	05/06	1,000				270		0	1,270
	06/07	1,000				30		500	1,530
The flow going to RP-5	07/08	1,000				210		3,000	4,210
increases as the RP-1/RP-5	08/09	800				179		3,000	3,979
Bypass Sewer comes on line,	09/10	800				179		3,000	3,979
New Model Colony is built,	10/11	800				179		3,000	3,979
portions of Ag Preserve become	11/13	800				179		3,000	3,979
sewered, and flow is diverted from.	12/14	600				154		3,000	3,754
RP-1 Lift Stations to gravity-flow	13/14	600				106		3,000	3,706
to RP-5.	14/15	500				153		3,000	3,653
		500				153		3,000	3,653
TEN-YR TOTALS		**7,400**				**1,522**		**27,500**	**36,422**

continued on next page

Incremental EDU Growth Data

AGENCY	YEAR	RP-1	RP-4	RP-1/RP-4	CCWRF	RP-1/5	RP-2/RP-5	RP-5	SUM
continued from previous page	6/30/02 Baseline	19,487			6,018				25,505
	6/30/03 Baseline	19,683			6,030				25,713
	6/30/04 Baseline	19,898			6,042				25,940
	6/30/05 Baseline	20,298			6,439				26,737
UPLAND	05/06	608			616				1,224
	06/07	637			746				1,383
	07/08	513			359				872
Items shown in the CCWRF	08/09	155			133				288
column could be diverted to	09/10	69			105				174
RP-1. This breakdown assumes	10/11	50			110				160
no diversions.	11/13	57			110				167
	12/14	57			110				167
	13/14	60			100				160
	14/15	60			100				160
	15/16	60			100				160
TEN-YR TOTALS		1,718			1,973				3,691
	6/30/02 Baseline	622			14,096		0	2,304	17,022
	6/30/03 Baseline	622			11,415		0	2,167	14,204
	6/30/04 Baseline	622			11,370		19	2,189	14,200
	6/30/05 Baseline	622			12,459		1,111	2,315	16,507
CHINO	05/06	0			325		678	151	1,154
	06/07	0			95		1,261	632	1,988
Flow from "RP-2/5" service area	07/08	0			50		1,456	220	1,726
is lifted to RP-5 by	08/09	2			50		2,344	220	2,616
a pump station located	09/10	0			50		1,781	220	2,051
at RP-2 or by The Preserve Lift	10/11	3			50		1,593	220	1,866
Stations. Flow from "RP-5"	11/13	0			50		821	220	1,091
service area flows directly to	12/13	0			50		547	220	817
RP-5.	13/14	5			50		339	220	614
	14/15	0			50		171	220	441
	15/16	0			50		49	220	319
TEN-YR TOTALS		10			545		10,362	2,612	13,529
	6/30/02 Baseline				10,942		1,622	10,408	22,972
	6/30/03 Baseline				11,024		1,622	10,867	23,513
	6/30/04 Baseline				11,183		1,622	11,312	24,117
	6/30/05 Baseline				11,275		1,622	11,494	24,391
CHINO HILLS	05/06				136		0	202	338
	06/07				63		119	485	667
Flow from "RP-2/RP-5" service	07/08				303		0	583	886
area is lifted to RP-5 by	08/09				158		0	485	643
a pump station located	09/10				33		100	208	341
at RP-2. Flow from	10/11				31		125	32	188
"RP-5" service area	11/13				23		0	0	23
flows directly to	12/14				7		0	0	7
RP-5.	13/14				0		0	0	0
	14/15				0		0	0	0
					0		0	0	0
TEN-YR TOTALS					618		344	1,793	2,755
	6/30/02 Baseline	100,952	24,663	43,045	41,759	0	1,622	12,712	224,753
	6/30/03 Baseline	103,394	26,722	44,397	39,118	0	1,622	13,034	228,288
	6/30/04 Baseline	93,665	31,647	43,614	39,131	12,978	1,641	13,501	236,177
GRAND TOTALS	6/30/05 Baseline	95,089	32,144	44,300	40,684	13,182	2,733	13,809	241,941
	05/06	2,139	2,280	552	1,102	270	678	353	7,374
	06/07	2,169	2,070	535	954	30	1,380	1,617	8,755
	07/08	2,031	1,858	510	812	210	1,456	3,803	10,680
	08/09	1,400	1,646	490	441	179	2,344	3,705	10,205
	09/10	1,291	1,382	469	288	179	1,881	3,428	8,918
	10/11	1,253	1,218	446	266	179	1,718	3,252	8,332
	11/13	1,255	1,403	432	258	179	821	3,220	7,568
	12/14	1,037	1,237	402	242	154	547	3,220	6,839
	13/14	1,036	1,270	386	225	106	339	3,220	6,582
	14/15	912	1,203	359	225	153	171	3,220	6,243
	15/16	892	1,135	332	225	153	49	3,220	6,006
TEN YR TOTALS		110,504	48,846	49,213	45,722	14,974	14,117	46,067	329,443
Incremental Growth 10-yr avg (04/05-13/14)		1,328	1,442	436	394	152	1,071	3,191	8,013
Incremental Growth 11-yr avg (03/04-13/14)		1,401	1,518	447	458	163	1,035	2,933	7,955

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 110															
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
GM06003 CEO/GM NRWS Cap Rplcm		0	20,000											20,000	20,000
GM07003 CEO/GM NRWS Cap Replacment C				20,000										20,000	20,000
GM08003 CEO/GM NRWS Cap Replacment C					20,000									20,000	20,000
GM09003 CEO/GM NRWS Cap Replacment C						20,000								20,000	20,000
GM10003 CEO/GM NRWS Cap Replacment C							20,000							20,000	20,000
GM11003 CEO/GM NRWS Cap Replacment C								20,000						20,000	20,000
GM12003 CEO/GM NRWS Cap Replacment C									20,000					20,000	20,000
GM13003 CEO/GM NRWS Cap Replacment C										20,000				20,000	20,000
Total 410...440 - NRW		**0**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**				**160,000**	**160,000**
Total GL		**0**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**				**160,000**	**160,000**
Total Dept: GL		**0**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**20,000**	**0**	**0**	**0**	**160,000**	**160,000**
Dept: 210															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
FN06001 SAWPA General Admin		109,734	109,734											109,734	109,734
FN07001 SAWPA General Administration				101,500										101,500	101,500
FN08001 SAWPA General Administration					110,000									110,000	110,000
FN09001 SAWPA General Administration						110,000								110,000	110,000
FN10001 SAWPA General Administration	3						110,000							110,000	110,000
Total 111 - Headquarters Facility Admin		**109,734**	**109,734**	**101,500**	**110,000**	**110,000**	**110,000**							**541,234**	**541,234**
Total GL		**109,734**	**109,734**	**101,500**	**110,000**	**110,000**	**110,000**							**541,234**	**541,234**
Total Dept: GL		**109,734**	**109,734**	**101,500**	**110,000**	**110,000**	**110,000**	**0**	**0**	**0**	**0**	**0**	**0**	**541,234**	**541,234**
Dept: 220															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
AA00066 HQ Pool Vehicles(2)Replacement	2					51,862								51,862	51,862
CP05002 HQ MINOR EQUIP/FURNITURE	3	2,178	2,250											2,250	5,000
CP06001 HQB & CCWRP 2 COPIERS	3	37,540	41,608											41,608	41,608
CP06002 RP1&4/ASG/HQA 4 FAX MACH	3	5,560	5,773											5,773	5,773
CP06003 HQ Vehicles/Truck(6)	2	16,204	88,859											88,859	88,859
CP06004 HQ Mnr Equip/Furn	3	5,580	6,586											6,586	6,586
CP06005 (10)Gate Operators	22	11,690	13,043											13,043	13,043
CP07001 Purchase of Mini-Van / HQ Pool	3			28,575										28,575	28,575
CP07002 Purchase of copiers/printers	3			39,060										39,060	39,060
CP07003 HQ Minor Equip/Furn	3			20,000										20,000	20,000
CP07004 Secrty Cam & Digital Recrd Sys	1			291,563										291,563	291,563
CP07005 Prox Card Access Contr System	2			129,055										129,055	129,055
CP07006 Upgrade Ext Door Hardware HQ	2			33,908										33,908	33,908
GS03003 New Admin Center Furniture		2,915	158,761											158,761	2,133,847
GS03005 New Admin Cntr Pickup Items		9,731	3,833											3,833	236,010

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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
GS03006															
New Admin Cntr Security Requir		9,460	10,000	27,795									37,795	191,275	
Total 111 - Headquarters Facility Admin		**100,858**	**330,713**	**569,956**		**51,862**								**952,531**	**3,316,024**
Total GL		**100,858**	**330,713**	**569,956**		**51,862**								**952,531**	**3,316,024**
Fund: RC - Regional Capital Improvements															
Location: 111 - Headquarters Facility Admin															
CP06006															
Regional Facilities Landscape	2	11,771	50,000											50,000	50,000
CP07008															
Regional Facilities Landscape	2			50,000										50,000	50,000
Total 111 - Headquarters Facility Admin		**11,771**	**50,000**	**50,000**										**100,000**	**100,000**
Location: 240...244 - RP2															
CP07007															
RP-2 Frontage Landscape Upgrad	2			62,330										62,330	62,330
Total 240...244 - RP2				**62,330**										**62,330**	**62,330**
Total GL		**11,771**	**50,000**	**112,330**										**162,330**	**162,330**
Total Dept: GL		**112,629**	**380,713**	**682,286**	**0**	**51,862**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,114,861**	**3,478,354**
Dept: 221															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
CP07009															
HQ-A & HQ-B Building Mod.	2			320,795										320,795	320,795
Total 111 - Headquarters Facility Admin				**320,795**										**320,795**	**320,795**
Total GL				**320,795**										**320,795**	**320,795**
Total Dept: GL			**0**	**320,795**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**320,795**	**320,795**
Dept: 230															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
FA05001															
Automatic Folder/Insert	2	0	527											527	12,473
FA05002															
ERP/CMMS Procurement	1	379,784	470,322	4,052,174	1,627,518									6,150,014	6,150,014
Total 111 - Headquarters Facility Admin		**379,784**	**470,849**	**4,052,174**	**1,627,518**									**6,150,541**	**6,162,487**
Total GL		**379,784**	**470,849**	**4,052,174**	**1,627,518**									**6,150,541**	**6,162,487**
Total Dept: GL		**379,784**	**470,849**	**4,052,174**	**1,627,518**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6,150,541**	**6,162,487**
Dept: 235															
Fund: RC - Regional Capital Improvements															
Location: 114 - Warehouse															
MM07001															
A/C CONTROLLED CHEM STORAGE	1			12,930										12,930	12,930
MM07002															
CHEM STORAGE UNIT REHAB	1			16,163										16,163	16,163
Total 114 - Warehouse				**29,093**										**29,093**	**29,093**
Total GL				**29,093**										**29,093**	**29,093**
Total Dept: GL			**0**	**29,093**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**29,093**	**29,093**
Dept: 240															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
AA00385															
New Core Network Switch	3				107,960									107,960	107,960
AA00388															
New/Replacemt PCs/Laptops (93)	3				181,452									181,452	181,452
AA00571															
Replace PCs/Laptops (95)	3					196,698								196,698	196,698
AA00572															
Replace PCs/Laptops (75)	3						192,924							192,924	192,924
AA00576															
Expand Conf. Call Capability	4				41,420									41,420	41,420
AA00577															
Replace Internet Mgmt System	3				15,300									15,300	15,300
AA00582															
Telephone System Enhancements	4				22,794									22,794	22,794
AA00600															
New Permanent DLP/Sadie	4				17,240									17,240	17,240
IS02015															
Geographic Information System	3	27,739	34,759	206,993										241,752	648,803

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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
IS03004 Liberty Cold Storage Software		0	1,200											1,200	16,268
IS05001 Comp Rm Fire Suppress	2	20,696	25,271											25,271	94,872
IS05012 Netsight Roll Out	3	0	64,959											64,959	66,131
IS05013 Doc Imaging System Upgrade	3	0	8,635											8,635	8,752
IS06001 (83) PC/Laptops	3	165,518	192,634											192,634	192,634
IS06002 Bldg A Plotter	3	13,431	15,387											15,387	15,387
IS06003 (4) Agency Servers	3	18,636	19,144											19,144	19,144
IS06004 Access Cntrl Sftwr	3	8,161	14,497											14,497	14,497
IS06005 VPN Concentrators	3	9,291	18,767											18,767	18,767
IS06006 Host Website Intrnl	3	16,210	17,778	11,040										28,818	28,818
IS06007 Disk Based Back-up	2	13,878	14,005											14,005	14,005
IS06008 HQB EVENT ROOM VIDEO EQUIP	4	12,876	13,711											13,711	13,711
IS06009 Linux Server Pilot	3	3,395	3,403	8,856										12,259	12,259
IS06011 Dir Attch Strg Device	3	8,867	9,973											9,973	9,973
IS06013 Knowledge Ware Stdy	3	0	11,865											11,865	11,865
IS06014 Chino Hills IT Assistance	2	2,102	4,700											4,700	4,700
IS07001 Replace Internet Router	2			7,830										7,830	7,830
IS07002 KVM Switch for Servers	2			10,017										10,017	10,017
IS07003 Powervault 220 for Backups	2			14,390										14,390	14,390
IS07004 Network Access Control System	3			16,363										16,363	16,363
IS07005 Term Svr for Thin Client Wksta	4			13,899										13,899	13,899
IS07006 Server Replacements/Upgrades	3			32,994										32,994	32,994
IS07007 Video Conference System	4			9,454										9,454	9,454
IS07008 Automatic Email Archive	4			5,550	15,480									21,030	21,030
IS07009 Upgrade Back-up Software	2			17,680										17,680	17,680
IS07010 82 PCs/Laptops/Thin Client WSs	3			177,198										177,198	177,198
IS07011 Ant-Spam Appliance	3			12,563										12,563	12,563
Total 111 - Headquarters Facility Admin		**320,800**	**470,688**	**544,827**	**401,646**	**196,698**	**192,924**							**1,806,783**	**2,299,792**
Total GL		**320,800**	**470,688**	**544,827**	**401,646**	**196,698**	**192,924**							**1,806,783**	**2,299,792**
Fund: WC - Recycled Water Capital Fund															
Location: 111 - Headquarters Facility Admin															
IS05016 Chino Wtrshd Database Mgmt Sys	3	34,547	125,000	130,625										255,625	263,701
Total 111 - Headquarters Facility Admin		**34,547**	**125,000**	**130,625**										**255,625**	**263,701**
Total GL		**34,547**	**125,000**	**130,625**										**255,625**	**263,701**
Total Dept: GL		**355,347**	**595,688**	**675,452**	**401,646**	**196,698**	**192,924**	**0**	**0**	**0**	**0**	**0**	**0**	**2,062,408**	**2,563,493**
Dept: 253															
Fund: RC - Regional Capital Improvements															
Location: 111 - Headquarters Facility Admin															
TC05001 Hazardous Waste Storage Fac's		29,731	19,600											19,600	47,600
Total 111 - Headquarters Facility Admin		**29,731**	**19,600**											**19,600**	**47,600**
Total GL		**29,731**	**19,600**											**19,600**	**47,600**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Fund: RO - Regional Operations & Maint															
Location: 210 - Regional Administration															
EN05068															
Electronic O&M Manuals	3	24,799	275,000											275,000	275,000
Total 210 - Regional Administration		**24,799**	**275,000**											**275,000**	**275,000**
Total GL		**24,799**	**275,000**											**275,000**	**275,000**
Total Dept: GL		**54,530**	**294,600**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**294,600**	**322,600**
Dept: 312															
Fund: GG - Internal Service Fund															
Location: 210 - Regional Administration															
PL07001															
Cleanup Prado (Grant Funded)	2			363,690	136,320									500,010	500,010
Total 210 - Regional Administration				**363,690**	**136,320**									**500,010**	**500,010**
Total GL				**363,690**	**136,320**									**500,010**	**500,010**
Fund: RC - Regional Capital Improvements															
Location: 111 - Headquarters Facility Admin															
PL07002															
Web Bldg Activity Reporting	2			73,050	83,500									156,550	156,550
PL07003															
CCMP Implementation	3			10,000										10,000	10,000
Total 111 - Headquarters Facility Admin				**83,050**	**83,500**									**166,550**	**166,550**
Location: 210 - Regional Administration															
PL07008															
Eng Analytical Tools Analysis	3			250,000	300,000									550,000	550,000
PL07014															
Energy Efficiency Analysis	3			250,000	350,000									600,000	600,000
Total 210 - Regional Administration				**500,000**	**650,000**									**1,150,000**	**1,150,000**
Location: 220 - Regional Interceptors															
PL07015															
Interceptor Flow Monitoring	2			70,400										70,400	70,400
Total 220 - Regional Interceptors				**70,400**										**70,400**	**70,400**
Total GL				**653,450**	**733,500**									**1,386,950**	**1,386,950**
Fund: RO - Regional Operations & Maint															
Location: 210 - Regional Administration															
WR05002															
Salinity Management Program	2	20,558	250,000	250,000	250,000	250,000								1,000,000	1,250,000
Total 210 - Regional Administration		**20,558**	**250,000**	**250,000**	**250,000**	**250,000**								**1,000,000**	**1,250,000**
Total GL		**20,558**	**250,000**	**250,000**	**250,000**	**250,000**								**1,000,000**	**1,250,000**
Fund: WC - Recycled Water Capital Fund															
Location: 310...370 - Recycled Water															
WR06007															
SAWPA Project Participation	3	22,278	22,278											22,278	22,278
WR06012															
FY0506 Reg. Recycled Wtr Mrktg	2	117,798	125,000											125,000	125,000
WR06013															
FY0506 RW Prog-Mktg/Tech.Assi		149,842	150,000											150,000	150,000
Total 310...370 - Recycled Water		**289,918**	**297,278**											**297,278**	**297,278**
Total GL		**289,918**	**297,278**											**297,278**	**297,278**
Fund: WW - Water Fund															
Location: 610...620 - Water															
WR02017															
MWD/IEUA/CBWM Dry Year Storage		4,425	50,000	281,677										331,677	1,600,000
WR02019															
Dry Year Storage Administraton		26,815	37,118	38,232	39,379	40,560	41,777							197,066	269,140
WR05015															
Prop 13 Urban Wtr Consv		1,366	500,000	1,559,555										2,059,555	2,059,555
WR06006															
FY0506 SAWPA Participation	3	98,078	98,078											98,078	98,078
WR06009															
FY05/06 MWD Water Conserv Prog	2		120,000											120,000	120,000
WR06010															
FY0506 MWD ULFT Program	3	665,866	830,700											830,700	830,700
WR06011															
IEUA FY05/06 Water Conser Prog	3	0	265,265											265,265	265,265
WR06017															
FY0506 Water Conserv Program		0	140,000	50,000	50,000	50,000								290,000	290,000
WR07006															
FY 2006/07 SAWPA Participation	3			114,072										114,072	114,072

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Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
WR07009 FY06/07 MWD Water Conserv Prog	2			215,500										215,500	215,500
WR07010 FY 06/07 MWD ULFT Program	3			1,597,500										1,597,500	1,597,500
WR07011 IEUA FY06/07 Water Consrv Prog	3			448,000										448,000	448,000
WR07016 USBR Reimbursable Projects				50,000										50,000	50,000
WR08006 FY 2007/08 SAWPA Participation	3				117,494									117,494	117,494
WR08009 FY07/08 MWD Water Conserv Prog	2				206,500									206,500	206,500
WR08010 FY 07/08 MWD ULFT Program	3				2,010,000									2,010,000	2,010,000
WR08011 IEUA FY07/08 Water Consrv Prog	3				279,000									279,000	279,000
WR09006 FY 2008/09 SAWPA Participation	3					121,019								121,019	121,019
WR09009 FY08/09 MWD Water Conserv Prog						206,500								206,500	206,500
WR09010 FY 08/09 MWD ULFT Program	3					1,010,000								1,010,000	1,010,000
WR09011 FY 08/09 IEUA Water Conserv	3					484,000								484,000	484,000
WR10006 FY 2009/10 SAWPA Participation							124,544							124,544	124,544
WR10009 FY09/10 MWD Water Conserv Prog	2						206,500							206,500	206,500
WR10010 FY09/10 MWD ULFT Program	2						410,000							410,000	410,000
WR10011 IEUA FY 09/10 Water Consrv Pro							384,000							384,000	384,000
Total 610...620 - Water		**796,550**	**2,041,161**	**4,354,536**	**2,702,373**	**1,912,079**	**1,166,821**							**12,176,970**	**13,517,367**
Total GL		**796,550**	**2,041,161**	**4,354,536**	**2,702,373**	**1,912,079**	**1,166,821**							**12,176,970**	**13,517,367**
Total Dept: GL		**1,107,026**	**2,588,439**	**5,621,676**	**3,822,193**	**2,162,079**	**1,166,821**	**0**	**0**	**0**	**0**	**0**	**0**	**15,361,208**	**16,951,605**
Dept: 415															
Fund: WC - Recycled Water Capital Fund															
Location: 111 - Headquarters Facility Admin															
RW07017 GWR Relative Risk Assessment	3			119,440										119,440	119,440
Total 111 - Headquarters Facility Admin				**119,440**										**119,440**	**119,440**
Location: 310...370 - Recycled Water															
RW07007 SAWPA Participation	3			42,300										42,300	42,300
RW07012 FY0607 Reg. Recycled Wtr Mrktg	2			125,000										125,000	125,000
RW07013 FY0607 RW Prog-Mktg/Tech.Assis	2			150,000										150,000	150,000
RW08012 Recy Wtr Program-Admin/Plannin	2				125,000									125,000	125,000
RW08013 FY0708 RW Prog-Mktg/Tech.Assis	2				150,000									150,000	150,000
RW09012 RW Program-Admin/Planning	2					125,000								125,000	125,000
RW09013 RW Program-Marketg/Tech Assist	2					150,000								150,000	150,000
Total 310...370 - Recycled Water				**317,300**	**275,000**	**275,000**								**867,300**	**867,300**
Total GL				**436,740**	**275,000**	**275,000**								**986,740**	**986,740**
Total Dept: GL			**0**	**436,740**	**275,000**	**275,000**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**986,740**	**986,740**
Dept: 420															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
EN05072 P3 Project Control System		37,501	38,204											38,204	262,204
EN06002 4-Laptops/Docking Stations	1	11,528	50,122											50,122	50,122
EN06004 AutoCAD License Additions	2	23,761	25,481											25,481	69,983
EN06006 HQA AirCond PhotSrvr	2	3,978	52,000	50,000										102,000	52,000

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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
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EN06008 Expedition & P-3 CM	2	60,544	105,600	280,673										386,273	312,273
EN06009 Electronic Library	2	17,656	35,700	164,629										200,329	200,329
EN07001 AutoCAD Full License Additions	2			13,495										13,495	13,495
Total 111 - Headquarters Facility Admin		**154,969**	**307,107**	**508,797**										**815,904**	**960,406**
Location: 720 - Desalter Operations															
DL02001 Chino Desalter I Expansion		428	18,000											18,000	259,000
DL02002 Chino Desalter II		6,398	264,000											264,000	666,000
Total 720 - Desalter Operations		**6,826**	**282,000**											**282,000**	**925,000**
Total GL		**161,795**	**589,107**	**508,797**										**1,097,904**	**1,885,406**
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
CW06700 NRW Connections & Reimb Constr		0	6,000											6,000	6,000
CW07700 NRW System Connections & Reimb				6,000										6,000	6,000
CW08700 NRW Connection & Reimb Constr					6,000									6,000	6,000
CW09700 NRW Connection & Reimb Constr						6,000								6,000	6,000
CW10700 NRW Connection & Reimb Constr							6,000							6,000	6,000
CW11700 NRW Connection & Reimb Constr								6,000						6,000	6,000
CW12700 NRW Connection & Reimb Constr									6,000					6,000	6,000
CW13700 NRW Connection & Reimb Constr										6,000				6,000	6,000
CW14700 NRW Connection & Reimb Constr											6,000			6,000	6,000
CW15700 NRW Connection & Reimb Constr												6,000		6,000	6,000
EN03700 NRW Special Projects		0	19,000	75,000										94,000	125,000
EN03750 NRWS Emergency Pipeline Repair		155		62,874										62,874	168,000
EN05070 Niagra Bottling Lateral Pipln	1	6,483	290,587	3,395										293,982	429,839
EN05073 Emergency Pipeline Repl-Elm	1	592,476	599,000											599,000	677,000
EN07002 Reliant Energy 21" NRWS Valve	2			6,055	34,312									40,367	40,367
EN07011 NRW System Upgrades	3			1,296,000	2,700,000	3,700,000								7,696,000	7,696,000
EN07017 RP-2 SARI Dump Site Relocation	2			168,291										168,291	168,291
Total 410...440 - NRW		**599,114**	**914,587**	**1,617,615**	**2,740,312**	**3,706,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**		**9,014,514**	**9,364,497**
Total GL		**599,114**	**914,587**	**1,617,615**	**2,740,312**	**3,706,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**		**9,014,514**	**9,364,497**
Fund: RC - Regional Capital Improvements															
Location: 111 - Headquarters Facility Admin															
EN07016 Manure Business Cas Analysis	3			400,000										400,000	400,000
Total 111 - Headquarters Facility Admin				**400,000**										**400,000**	**400,000**
Location: 130 - RP-1 Administration															
AA00720 New Operations Laboratory	4								15,500,000	4,500,000				20,000,000	20,000,000
EN07003 RP-1 Assessment	2			3,500,000	3,500,000	2,900,000	2,900,000	2,800,000	2,500,000	2,500,000	2,500,000	2,500,000	1,900,000	27,500,000	27,500,000
Total 130 - RP-1 Administration				**3,500,000**	**3,500,000**	**2,900,000**	**2,900,000**	**2,800,000**	**18,000,000**	**7,000,000**	**2,500,000**	**2,500,000**	**1,900,000**	**47,500,000**	**47,500,000**
Location: 210 - Regional Administration															
EN02001 Right of Way Document Organize		23,132	59,500											59,500	60,000
EN03014 Engineering-Grants Admin Costs		0	25,000	50,000										75,000	100,000
EN03300 Regional System Special Proj's		35,444	115,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,115,000	350,000
continued on next page															

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
EN04013 Manhole Sealing Proj Phase II		0	19,000								18,153			37,153	38,500
EN04018 Engineering-As-Builting		7,004	20,000	100,000	80,400									200,400	200,400
EN05023 MWD Ion Exchng Conn to NRW Sys	1	2,268,681	2,700,000											2,700,000	5,000,000
EN05049 Agency Operational Prmtrs Stdy	3	0		435,000	200,000									635,000	159,500
EN05053 Fac Performance Objctv Anlysis	3	24,940	24,106	500,000	349,000									873,106	649,852
EN05054 Misc RC Construction Projects	2	23,261	33,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,033,000	157,780
EN07004 Facilities Luminare Replacemen	2			10,000	161,617	1,482,501								1,654,118	1,654,118
Total 210 - Regional Administration		**2,382,462**	**2,995,606**	**1,395,000**	**1,091,017**	**1,782,501**	**300,000**	**300,000**	**300,000**	**300,000**	**318,153**	**300,000**	**300,000**	**9,382,277**	**8,370,150**
Location: 220 - Regional Interceptors															
AA00718 Westside Interceptor	4							500,000	5,000,000	10,500,000	4,000,000			20,000,000	20,000,000
EN03009 Etiwanda Interceptor Manholes								379,900						379,900	379,900
EN05002 Manhole Sealing Project	3											166,243		166,243	166,243
EN05015 Easements for Archibald Sewers	3	6,322	16,205	24,095										40,300	48,191
EN05035 Upland Intrcptr Rlf Swr Ph II	1	551,472	500,000	13,779,545										14,279,545	14,629,545
EN06011 Coll Syst Emerg Upgrd	2	326		110,500	637,500									748,000	750,000
EN06013 Coll Syst Chino Ave1		326	2,000	118,300	681,700									802,000	802,000
EN06019 Coll Syst CIW Conn	2	326	119,000											119,000	119,000
EN07012 Pine Ave V-2 Valve Replacement	2			37,915										37,915	37,915
PL02012 RP1 to RP5 By-Pass	1	19,534,103	23,009,600	750,000										23,759,600	25,900,000
PL04001 San Bernardino Pump Stn Land		0	30,000	470,000										500,000	500,000
Total 220 - Regional Interceptors		**20,092,874**	**23,676,805**	**15,290,355**	**1,319,200**			**879,900**	**5,000,000**	**10,500,000**	**4,000,000**	**166,243**		**60,832,503**	**63,332,794**
Location: 222 - Prado Lift Station															
EN03002 Prado Dechlor Stn Pavement Mnt		0		9,051										9,051	12,600
Total 222 - Prado Lift Station		**0**		**9,051**										**9,051**	**12,600**
Location: 225 - Upland Hills WRP															
OA04002 Upland Hills Plant Modificatio		5,905								100,000		918,790		1,018,790	1,118,790
Total 225 - Upland Hills WRP		**5,905**								**100,000**		**918,790**		**1,018,790**	**1,118,790**
Location: 230...238 - RP1															
AA00450 RP-1 Tertiary Filter Expansion	1				370,000	2,000,000	1,424,666							3,794,666	3,794,666
AA00452 RP-1 Storm Water Contain Impro	1							438,000						438,000	438,000
AA00484 RP-1 Filtrate Treatment Expans	2										600,000	3,174,000		3,774,000	3,774,000
EN01015 RP1 Entry Road Imprv/Landscapg		35,850	200,000											200,000	652,000
EN02014 Prado Dechlor Seismic Retrofit		41,704									561,577			561,577	491,700
EN02036 RP1 Aeration Basin Drain Pmps		794	16,037							254,065				270,102	298,900
EN04019 RP1 Digester Gas Storage, III		22,138	32,821											32,821	322,300
EN04035 RP1 Gravity Thickner Pip Mods		2,738	5,248	69,572	429,980									504,800	498,800
EN04036 RP1 3-Phase Digestion Imprvmnt		50,161	53,142	2,724,260	908,087									3,685,489	2,697,217
EN05006 RP1 Sec Treatment System Mods	4									500,000	1,500,000	12,600,000	12,686,429	27,286,429	27,286,429
EN05007 RP1 Aeration Basin Modificatio	3	150,950	108,000	2,097,320										2,205,320	2,678,530
EN05008 RP1 Sludge Screening Facility	3	2,020	6,369	98,127	592,146									696,642	696,642

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Appendix B–Current and Proposed Capital Projects Summary
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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
EN05009 RP1 Dig 5,6 & 7 Seismic Retrft	2	296,186	474,814											474,814	771,000
EN05010 RP1 Mixer Install@OE Structure	3	57,116	58,238	386,682										444,920	454,920
EN05011 TP1 Sodium Hypochlorite Stn Ex	3	11,158	20,934							276,618				297,552	325,434
EN05014 RP1 Gravity Thickener No. 2	4										102,922	2,000,000		2,102,922	2,102,922
EN05028 TP1 Flash Mixer Access	3	35,034	28,631	4,656						263,816				297,103	310,372
EN05030 RP1 Food Waste Storage Pump St	3	229,460		287,101										287,101	899,745
EN05050 RP1/RP2 Digester Gas Sys Mods	3	308,081		1,500,000	6,229,114									7,729,114	5,700,000
EN05059 TP1 Chlorination Separation	1	30,173		383,747										383,747	451,462
EN05071 TP1 Outfall Flowmeter Install	3	297	45,142	258,260										303,402	303,402
EN06010 TP1 Waste Wash Media	1	0								100,000	558,000			658,000	658,000
EN06012 RP1 Dechlor Stn Eval	1	0	250,000											250,000	250,000
EN06015 RP1 Dewatering Facility Expnsn	1	18,192		2,300,000	8,513,487									10,813,487	10,000,000
EN06016 RP1 Biol Gas Scrubr	2	0		675,000										675,000	775,000
EN06017 RP1 CoGen Fac Expsn	2	0									225,000	1,275,000		1,500,000	1,500,000
EN06018 RP1 Heat Rec Syst	3	0									105,000	595,000		700,000	700,000
EN07006 RP-1 Facilities Improvements	2			444,056	1,028,185	3,488,134								4,960,375	4,960,375
EN07007 Reg Fac Chem & Control Automat	2			947,040	5,366,566									6,313,606	6,313,606
EN07013 RP-1 Bypass Improvements	2			339,060										339,060	339,060
EN20033 Upland Interceptr Relief Phs I		133,900	10,000											10,000	3,198,000
EN20046 TP1 Outfall Energy Recovery		4,344		697,356	1,000,000									1,697,356	81,996
EN99003 RP1 Phil Entry Widening		0	4,000											4,000	86,100
PL03006 RP1 Odor Control - Phase I		269,584	383,996	3,316,904										3,700,900	6,158,900
Total 230...238 - RP1		**1,699,880**	**1,697,372**	**16,529,141**	**24,437,565**	**5,488,134**	**1,424,666**	**438,000**		**1,394,499**	**3,652,499**	**19,644,000**	**12,686,429**	**87,392,305**	**89,969,478**
Location: 240...244 - RP2															
AA00704 RP-2 Screening Project	4							58,694	332,560					391,254	391,254
EN01029 RP2 3 Phse Digestion Sys Imprv		147,030	12,000											12,000	3,008,408
EN02032 RP2 Landscaping/Paving		16,711	43,437											43,437	27,000
EN04002 RP2 Landscaping & Paving Modif		49,573	37,000	26,072										63,072	72,600
EN04003 RP2 CityofChino Potable Water		54,165	105,676	144,778										250,454	292,078
EN04017 RP2 Landscape/Paving Modifictn		97,801	122,375	13,055										135,430	137,300
EN04027 RP2 Coating Maintenance, Ph I		0									80,800			80,800	80,800
EN05019 RP2 Dewatering Bldg Skylight	3	4,456	2,393	20,164										22,557	25,570
EN05020 RP2 Waste Storage Pump Station	3	6,348	21,879	1,400,000										1,421,879	524,056
EN05027 RP2 DAFT System Modifications	3	1,335	1,335	30,021	177,682									209,038	209,038
EN05058 RP2 Solids Handling Automation	2	460		20,130	134,257									154,387	157,949
EN05067 RP2 Decommissioning	2	19,162		25,783	146,108			1,651,558						1,823,449	1,851,558
EN06014 RP2 Dewtr Ck Stor Sys	3	51,575	51,575			330,000	3,000,000							3,381,575	3,330,000
EN07008 RP-2 Gravity Thickener	3			25,857	146,522									172,379	172,379
Total 240...244 - RP2		**448,617**	**397,670**	**1,705,860**	**604,569**	**330,000**	**3,000,000**	**1,710,252**	**332,560**		**80,800**			**8,161,711**	**10,279,990**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Location: 250...254 - CCWRP															
AA00407 CCWRP/Prim Clarif Div Str	3						247,000							247,000	247,000
AA00438 CCWRP Sec Clar Inlet Stru Gate	4							201,000						201,000	201,000
AA00440 CCWRP/Sec Clarifier Algae Cont	3											249,000		249,000	249,000
AA00717 CCWRF Aeration System Replacem	4					300,000	1,700,000							2,000,000	2,000,000
EN02037 CCWRF Chlorination Facility		826,289	884,241	367,759										1,252,000	1,526,700
EN04028 CCW Coating Maintenance, Ph I		0									50,248			50,248	50,350
EN04030 CCWRP Aeration System Mod.		233,693	373,735	2,000,000	2,200,000	2,200,000								6,773,735	4,481,250
EN05029 CCW Prim Clfr Equp Rep & Coat	4	166						339,762						339,762	339,762
EN05061 CCW Trty Flt&Chlrn Tnk Expan	4	182,351	257,298	1,000,000	4,500,000	4,500,000	234,176							10,491,474	10,414,930
Total 250...254 - CCWRP		**1,242,498**	**1,515,274**	**3,367,759**	**6,700,000**	**7,000,000**	**2,181,176**	**540,762**			**50,248**	**249,000**		**21,604,219**	**19,509,992**
Location: 264 - RP-3 Tertiary Treatment Plant															
AA00705 RP-3 Site Demolition	4									60,565	343,202			403,767	403,767
Total 264 - RP-3 Tertiary Treatment Plant										**60,565**	**343,202**			**403,767**	**403,767**
Location: 270...274 - RP4															
AA00719 RP-4 Overflow Bypass Pipeline	4					825,495	4,677,804							5,503,299	5,503,299
EN03023 San Bernardino Ave Pump Stn		79,179		13,000,000	300,000									13,300,000	6,200,000
EN04011 RP4 Liquid Expansion to 14 mgd		14,356,106	15,070,000	20,000,000										35,070,000	33,200,000
EN05069 RP-4 Liq & Solids Exp 21MGD	4											0	1,000,000	1,000,000	1,000,000
EN07009 RP-4 Teriary Feric Injection	2			21,277	120,569									141,846	141,846
PL05011 RP-4 Land Acquisition	3	1,884,542		1,852,629			200,000	2,000,000	1,860,000					5,912,629	4,300,000
Total 270...274 - RP4		**16,319,826**	**15,070,000**	**34,873,906**	**420,569**	**825,495**	**4,877,804**	**2,000,000**	**1,860,000**			**0**	**1,000,000**	**60,927,774**	**50,345,145**
Location: 280...284 - RP5															
EN02038 Chino Creek Park		(1,596)		2,900,000										2,900,000	4,296,860
EN03029 RP5 Renewable Energy Efficincy		571,380	3,845,000	15,654,601										19,499,601	18,211,804
EN04033 RP5 Utility Water Pipeline		74,578	529,886											529,886	731,336
EN05052 RP5 Warehouse & Maintenance Fa	2									500,000	2,500,000	2,977,791		5,977,791	5,977,791
EN05056 RP-5 Phase II Expansion	4			1,915,000	4,603,067	21,629,721	21,629,721	16,222,491						66,000,000	66,000,000
EN05060 RP5 Hot Water Loop Feas Study	3	(3,419)	28,414	115,078										143,492	143,497
Total 280...284 - RP5		**640,943**	**4,403,300**	**20,584,679**	**4,603,067**	**21,629,721**	**21,629,721**	**16,222,491**		**500,000**	**2,500,000**	**2,977,791**		**95,050,770**	**95,361,288**
Location: 285 - RP-5 Digester															
EN06020 RP5 System Fac Upgrade & Imprv	1	750,650	4,911,146	9,787,855	1,408,456									16,107,457	7,700,000
Total 285 - RP-5 Digester		**750,650**	**4,911,146**	**9,787,855**	**1,408,456**									**16,107,457**	**7,700,000**
Location: 310...370 - Recycled Water															
AA00522 CCWRF Sec.Flow Equalizati	2											100,000		100,000	100,000
AA00532 RP-1 Sec Flow Equalization Sys	2											1,000,000	5,000,000	6,000,000	6,000,000
AA00533 RP-5 Sec Flow Equalization Sy	2										500,000	1,000,000	1,000,000	2,500,000	6,500,000
Total 310...370 - Recycled Water											**500,000**	**2,100,000**	**6,000,000**	**8,600,000**	**12,600,000**
Location: 810 - Organics Management Admin.															
PL03005 Complete Mix Digestion Technol		54,391	4,726,247	4,234,865										8,961,112	5,978,556
Total 810 - Organics Management Admin.		**54,391**	**4,726,247**	**4,234,865**										**8,961,112**	**5,978,556**
Location: 820 - RP5 Manure Digester															
EN04038 RP5 Digester Expan/Modificatn	1	1,989,730	1,982,945											1,982,945	2,853,371
Total 820 - RP5 Manure Digester		**1,989,730**	**1,982,945**											**1,982,945**	**2,853,371**
Total GL		**45,627,777**	**61,376,365**	**111,678,471**	**44,084,443**	**39,955,851**	**36,313,367**	**24,891,405**	**25,492,560**	**19,855,064**	**13,944,902**	**28,855,824**	**21,886,429**	**428,334,681**	**415,735,921**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Fund: RO - Regional Operations & Maint															
Location: 111 - Headquarters Facility Admin															
EN07014															
P&ID Standards Conversion	2			100,000										100,000	100,000
Total 111 - Headquarters Facility Admin				**100,000**										**100,000**	**100,000**
Total GL				**100,000**										**100,000**	**100,000**
Fund: RW - Recharge Water Fund															
Location: 380 - Recharge Water Prog. Admin.															
EN06024															
Expnsn Rechrg Sys	1	18,411	6,477	300,000										306,477	300,000
Total 380 - Recharge Water Prog. Admin.		**18,411**	**6,477**	**300,000**										**306,477**	**300,000**
Total GL		**18,411**	**6,477**	**300,000**										**306,477**	**300,000**
Fund: WC - Recycled Water Capital Fund															
Location: 240...244 - RP2															
EN01007															
Rec Wtr Systm Hydrants/Meters		61,275	71,260											71,260	180,500
Total 240...244 - RP2		**61,275**	**71,260**											**71,260**	**180,500**
Location: 310...370 - Recycled Water															
AA00551															
1600 Highland Reg. RW Pipeline	4											339,988	400,000	739,988	739,988
AA00554															
Bickmore Ave. Reg. RW Pipeline	1											500,000	500,000	1,000,000	1,000,000
AA00557															
Etiwanda Ave Pipeline South Ex	1											100,000	300,000	400,000	400,000
AA00558															
Euclid Ave Interconnect & Res	1											300,000	300,000	600,000	600,000
AA00559															
RP-1 Outfall Parallel Reg RW P	1			250,000	500,000	4,000,000	5,250,000					1,000,000	1,000,000	12,000,000	12,000,000
AA00560															
RP-1 to 1050 Zone PS	1											100,000	1,473,708	1,573,708	1,573,708
AA00561															
RP-5 RW Pump Stat. Expan Ph 1	1											0	356,867	356,867	356,867
AA00564															
Whitram Parallel Reg RW Pipeli	1											100,000	863,669	963,669	963,669
AA00566															
San Sevaine/Etiwanda RB Supply	1						1,271,581	4,058,231	2,657,455	843,776	2,096,253	1,185,000	5,000,000	17,112,296	17,112,296
AA00567															
Chino Hills 800 Zone Improveme	1							1,534,296	4,967,801	3,258,964	1,042,909			10,803,970	10,803,970
CW06500															
Recycled Wtr Reimb Cost 05/06	3	0	15,000											15,000	15,000
CW07500															
Recyc Wtr Cost Reimb Constrn				15,000										15,000	15,000
CW08500															
Recyc Wtr Cost Reimb Constrn	3				15,000									15,000	15,000
CW09500															
Recyc Wtr Cost Reimb Constrn						15,000								15,000	15,000
CW10500															
Recyc Wtr Cost Reimb Constrn							6,000							6,000	6,000
EN01020															
4th St Recycled Water Pipelnes		105,776	10,000											10,000	9,689,096
EN03500															
Recyc Wtr Special Projects		1,590	25,000	25,000										50,000	75,000
EN05012															
Land Phase II Recyc Wtr Proj	1	203	552,706											552,706	1,160,412
EN05038															
Edison-Merrill Recyc Wtr Pipln	4	4,782,123	6,000,000	3,036,988										9,036,988	9,096,988
EN05055															
Misc WC Construction Projects	2	87,147	301,262	301,262	137,296	137,296	137,296	137,296	137,296	137,296	137,307			1,563,607	1,427,971
EN05057															
RP5/RP2 Recyc Water Pipelines	4	72,825	1,360,545	2,450,000										3,810,545	3,810,545
EN06023															
RW Lns Reb Cty Chino	2	0		375,000	1,125,000									1,500,000	1,500,000
EN06025															
Wineville Ext Recy Wtr Piplne	k	96,783	650,000	5,619,210	2,000,000									8,269,210	6,603,012
EN07010															
900 West Reservoir and Pipelin	1			835,834	5,272,692									6,108,526	6,108,526
EN07015															
7TH & 8TH ST SB Pipeline	1			3,309,064										3,309,064	3,309,064
WR04016															
Recycle Wtr Dist Sys - Ph II	1	(294,366)	2,000,000	14,300,000	16,400,000	10,000,000	7,000,000							49,700,000	48,325,999
Total 310...370 - Recycled Water		**4,852,080**	**10,914,513**	**30,517,358**	**25,449,988**	**14,152,296**	**13,664,877**	**5,729,823**	**7,762,552**	**4,240,036**	**3,276,469**	**3,624,988**	**10,194,244**	**129,527,144**	**136,723,111**
Total GL		**4,913,356**	**10,985,773**	**30,517,358**	**25,449,988**	**14,152,296**	**13,664,877**	**5,729,823**	**7,762,552**	**4,240,036**	**3,276,469**	**3,624,988**	**10,194,244**	**129,598,404**	**136,903,611**
Total Dept: GL		**51,320,452**	**73,872,309**	**144,722,241**	**72,274,743**	**57,814,147**	**49,984,244**	**30,627,228**	**33,261,112**	**24,101,100**	**17,227,371**	**0**	**32,080,673**	**568,451,980**	**564,289,435**

Appendix B–Current and Proposed Capital Projects Summary
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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 440															
Fund: CC - Co-Composting Capital															
Location: 510...572 - Compost															
PL02001															
Dairy Sewering Study		166	10,000	10,000	10,000									30,000	60,000
Total 510...572 - Compost		**166**	**10,000**	**10,000**	**10,000**									**30,000**	**60,000**
Total GL		**166**	**10,000**	**10,000**	**10,000**									**30,000**	**60,000**
Fund: RC - Regional Capital Improvements															
Location: 210 - Regional Administration															
PL05002															
Ph II Surf Wetlands&Hab	2	980	38,000	1,566,000	1,731,710									3,335,710	3,787,700
PL05003															
Riparian Habitat Enhancement	2	40,422	1,500	71,400										72,900	110,100
PL05004															
Survey Salinity Control Method	2	5,960	16,100	8,600										24,700	50,000
PL05005															
Pathogen Source Evaluation	2	1,139	52,000	52,075										104,075	106,100
PL05006															
Chino Creek Master Plan	2	276,375	169,250	10,000										179,250	586,200
PL05007															
FY04/05 Facility Master Plan	1	41,391		300,000	304,900	300,000								904,900	652,900
PL05013															
Chino Creek Master Plan	3	5,814	9,900	29,900										39,800	29,900
PL05014															
Chino Creek Master Plan	3	125	9,900	32,000										41,900	29,900
Total 210 - Regional Administration		**372,207**	**296,650**	**2,069,975**	**2,036,610**	**300,000**								**4,703,235**	**5,352,800**
Location: 230...238 - RP1															
PL05001															
RP1 Modernization		53,649	65,000					90,000			2,161,000	2,161,000		4,477,000	4,412,000
Total 230...238 - RP1		**53,649**	**65,000**					**90,000**			**2,161,000**	**2,161,000**		**4,477,000**	**4,412,000**
Location: 240...244 - RP2															
PL04002															
RP2/5 Chino Creek Othr Use Std		397	78,000	75,000	125,000									278,000	228,000
Total 240...244 - RP2		**397**	**78,000**	**75,000**	**125,000**									**278,000**	**228,000**
Location: 409 - RP-3 Basins															
AA00550															
RP-3/Declez Park	4								2,000,000					2,000,000	2,000,000
Total 409 - RP-3 Basins									**2,000,000**					**2,000,000**	**2,000,000**
Total GL		**426,253**	**439,650**	**2,144,975**	**2,161,610**	**300,000**		**90,000**	**2,000,000**		**2,161,000**	**2,161,000**		**11,458,235**	**11,992,800**
Fund: RW - Recharge Water Fund															
Location: 380 - Recharge Water Prog. Admin.															
PL05009															
Title 22 Phase II Rpt	2	101,153	400,000											400,000	450,000
PL05015															
FEMA-Storm Damage Basin Repr's		9,619	677,877											677,877	1,264,140
PL05016															
Misc. Basins Modifications-DWR		5,034	275,000											275,000	550,000
WR02016															
CB Recharge Facility Improvmnt	2	175,745	3,000,000											3,000,000	39,981,812
WR06014															
MWD Turnout to 8th St. Basins	2	179,088	75,000											75,000	4,025,000
Total 380 - Recharge Water Prog. Admin.		**470,640**	**4,427,877**											**4,427,877**	**46,270,952**
Location: 422 - SCADA Systems															
WR06015															
SCADA System Expansions	2	31,182	1,712,500											1,712,500	2,206,250
Total 422 - SCADA Systems		**31,182**	**1,712,500**											**1,712,500**	**2,206,250**
Total GL		**501,822**	**6,140,377**											**6,140,377**	**48,477,202**
Fund: WC - Recycled Water Capital Fund															
Location: 310...370 - Recycled Water															
PL05012															
Max Benefit Basin Plan Monitor	3	10,000	100,000	50,000	50,000	25,000	25,000	50,000	5,000	5,000	5,000	10,000		325,000	475,000
Total 310...370 - Recycled Water		**10,000**	**100,000**	**50,000**	**50,000**	**25,000**	**25,000**	**50,000**	**5,000**	**5,000**	**5,000**	**10,000**		**325,000**	**475,000**
Total GL		**10,000**	**100,000**	**50,000**	**50,000**	**25,000**	**25,000**	**50,000**	**5,000**	**5,000**	**5,000**	**10,000**		**325,000**	**475,000**
Total Dept: GL		**938,240**	**6,690,027**	**2,204,975**	**2,221,610**	**325,000**	**25,000**	**140,000**	**2,005,000**	**5,000**	**2,166,000**	**0**	**0**	**17,953,612**	**61,005,002**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 515															
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
EC05010 NRW Pipeline Condition Assmnt	2	727,055	800,000	497,900										1,297,900	1,300,000
EC06007 No NRWS Non-Compliance Costs		0	5,000											5,000	5,000
EC06008 So NRWS Non-Compliance Costs		0	1,000											1,000	1,000
EC06009 CSDLAC Capital Replcmt Cst 4Rs		14,605	1,800,000											1,800,000	1,800,000
EC06010 NRWS Refurbishment		4,972	10,000	1,990,000										2,000,000	2,000,000
EC07009 CSDLAC Capital Replacement Cos				1,822,000										1,822,000	1,822,000
EC08009 CSDLAC Capital Replacement Cos					2,139,000									2,139,000	2,139,000
EC09009 CSDLAC Capital Replacement Cos						2,829,000								2,829,000	2,829,000
EC10009 CSDLAC Capital Replacement Cos							2,526,000							2,526,000	2,526,000
EC11009 CSDLAC Capital Replacement Cos								2,417,000						2,417,000	2,417,000
EC12009 CSDLAC Capital Replacement Cos									2,125,000					2,125,000	2,125,000
EC13009 CSDLAC Capital Replacement Cos										1,433,000				1,433,000	1,433,000
EC14009 CSDLAC Capital Replacement 4Rs											1,431,045			1,431,045	1,431,045
Total 410...440 - NRW		**746,632**	**2,616,000**	**4,309,900**	**2,139,000**	**2,829,000**	**2,526,000**	**2,417,000**	**2,125,000**	**1,433,000**	**1,431,045**			**21,825,945**	**21,828,045**
Total GL		**746,632**	**2,616,000**	**4,309,900**	**2,139,000**	**2,829,000**	**2,526,000**	**2,417,000**	**2,125,000**	**1,433,000**	**1,431,045**			**21,825,945**	**21,828,045**
Fund: NO - NRW Operations & Maintenance															
Location: 410...440 - NRW															
EC07007 No NRWS Non Compliance Costs				5,000										5,000	5,000
EC07008 So NRWS Non Compliance Costs				1,000										1,000	1,000
EC08007 No NRWS Non Compliance Costs					5,000									5,000	5,000
EC08008 So NRWS Non Compliance Costs					1,000									1,000	1,000
EC09007 No NRWS Non Compliance Costs						5,000								5,000	5,000
EC09008 So NRWS Non Compliance Costs						1,000								1,000	1,000
EC10007 No NRWS Non Compliance Costs							5,000							5,000	5,000
EC10008 So NRWS Non Compliance Costs							1,000							1,000	1,000
EC11007 No NRWS Non Compliance Costs								5,000						5,000	5,000
EC11008 So NRWS Non Compliance Costs								1,000						1,000	1,000
EC12007 No NRWS Non Compliance Costs									5,000					5,000	5,000
EC12008 So NRWS Non Compliance Costs									1,000					1,000	1,000
EC13007 No NRWS Non Compliance Costs										5,000				5,000	5,000
EC13008 So NRWS Non Compliance Costs										1,000				1,000	1,000
Total 410...440 - NRW				**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**				**42,000**	**42,000**
Total GL				**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**	**6,000**				**42,000**	**42,000**
Fund: RC - Regional Capital Improvements															
Location: 210 - Regional Administration															
EC05003 EC ISCO Composite Samplers	2	0	5,200											5,200	5,200
EC06011 6712C Cmposit Smplr	3	8,731	8,771											8,771	8,771
EC06012 Westrn Mule Bmpr	3	2,716	4,795											4,795	4,795
EC07001 Miele Glassware Washer	2			12,430										12,430	12,430

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Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
EC07002 ER Trailer Arrow Light Board	2			3,733										3,733	3,733
EC07003 ISCO Flow Monitoring Equipment	2			6,742										6,742	6,742
EC07005 Confined Space Safety Equipmen	2			11,477										11,477	11,477
Total 210 - Regional Administration		**11,448**	**18,766**	**34,382**										**53,148**	**53,148**
Location: 220 - Regional Interceptors															
EC07010 Combination Truck HP Hose	2			3,987										3,987	3,987
Total 220 - Regional Interceptors				**3,987**										**3,987**	**3,987**
Total GL		**11,448**	**18,766**	**38,369**										**57,135**	**57,135**
Fund: RO - Regional Operations & Maint															
Location: 210 - Regional Administration															
EC03011 Digester Oil/Grease Treatment		0	24,181											24,181	30,000
Total 210 - Regional Administration		**0**	**24,181**											**24,181**	**30,000**
Location: 220 - Regional Interceptors															
CW06002 CSDLAC Contract #2600		0	4,640											4,640	4,640
CW06003 CSDLAC Contract #2639		0	1,550											1,550	1,550
CW07002 CSDLAC Contract #2600				4,640										4,640	4,640
CW07003 CSDLAC Contract #2639				1,550										1,550	1,550
CW08002 CSDLAC Contract #2600					4,640									4,640	4,640
CW08003 CSDLAC Contract #2639					1,550									1,550	1,550
CW09002 CSDLAC Contract #2600						4,640								4,640	4,640
CW09003 CSDLAC Contract #2639						1,550								1,550	1,550
CW10002 CSDLAC Contract #2600							4,640							4,640	4,640
CW10003 CSDLAC Contract #2639							1,550							1,550	1,550
EC06004 FY 05/06 Upland Pretreatment		1,147	7,880											7,880	7,880
EC07004 Upland Pretreatment FY 06/07				7,880										7,880	7,880
EC07006 SARI Fees - CIW FY 06/07				95,020										95,020	95,020
EC08004 Upland Pretreatment FY 07/08					7,880									7,880	7,880
EC08006 SARI Fees - CIW FY 07/08					95,020									95,020	95,020
EC09004 Upland Pretreatment FY 08/09						7,880								7,880	7,880
EC09006 SARI Fees - CIW FY 08/09						95,020								95,020	95,020
EC10004 Upland Pretreatment FY 09/10							7,880							7,880	7,880
Total 220 - Regional Interceptors		**1,147**	**14,070**	**109,090**	**109,090**	**109,090**	**14,070**							**355,410**	**355,410**
Location: 230...238 - RP1															
EC05001 RP1 Oxygen Transfer Efficiency	2	0	24,000											24,000	24,000
Total 230...238 - RP1		**0**	**24,000**											**24,000**	**24,000**
Location: 240...244 - RP2															
EC06006 SARI FEES CIW FY05/06		165,560	95,020											95,020	95,020
Total 240...244 - RP2		**165,560**	**95,020**											**95,020**	**95,020**
Total GL		**166,707**	**157,271**	**109,090**	**109,090**	**109,090**	**14,070**							**498,611**	**504,430**
Total Dept: GL		**924,787**	**2,792,037**	**4,463,359**	**2,254,090**	**2,944,090**	**2,546,070**	**2,423,000**	**2,131,000**	**1,439,000**	**1,431,045**	**0**	**0**	**22,423,691**	**22,431,610**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 523															
Fund: RC - Regional Capital Improvements															
Location: 111 - Headquarters Facility Admin															
TS06001															
Operations Database	2	0	183,100	258,525										441,625	183,100
Total 111 - Headquarters Facility Admin		**0**	**183,100**	**258,525**										**441,625**	**183,100**
Total GL		**0**	**183,100**	**258,525**										**441,625**	**183,100**
Fund: RW - Recharge Water Fund															
Location: 380 - Recharge Water Prog. Admin.															
TS07002															
60 kva Generator & 4 pumps	2			60,000										60,000	60,000
TS07003															
Install 6 Turbidity meters	2			40,000										40,000	40,000
TS07004															
Recharge Enhancement Project	1			6,933,000	4,150,000									11,083,000	11,083,000
TS07010															
Vegetation Monitoring @ Prado	1			129,000										129,000	129,000
Total 380 - Recharge Water Prog. Admin.				**7,162,000**	**4,150,000**									**11,312,000**	**11,312,000**
Location: 401 - San Sevaine #1,2,& 3															
TS07005															
Silt Consolidation @ S.S. #2	3			56,000										56,000	56,000
Total 401 - San Sevaine #1,2,& 3				**56,000**										**56,000**	**56,000**
Location: 403 - 8th St Basin #1 & 2															
AA00671															
Silt Removal at 8th St. B. #2	3					42,000								42,000	42,000
Total 403 - 8th St Basin #1 & 2						**42,000**								**42,000**	**42,000**
Location: 404 - Declez Basin															
AA00670															
Silt Removal at Declez Basin	3				126,000									126,000	126,000
Total 404 - Declez Basin					**126,000**									**126,000**	**126,000**
Location: 409 - RP-3 Basins															
AA00682															
Construct Channel Access Roads	4					50,000								50,000	50,000
Total 409 - RP-3 Basins						**50,000**								**50,000**	**50,000**
Location: 412 - Turner Basin #1															
TS07006															
Silt Removal at Turner #1 & 2	2			63,000										63,000	63,000
TS07007															
Abandon Well Near Turner #1	3			100,000										100,000	100,000
Total 412 - Turner Basin #1				**163,000**										**163,000**	**163,000**
Location: 414 - Turner Basins #2,3,4															
AA00687															
Install Drain Chutes	3					30,000								30,000	30,000
Total 414 - Turner Basins #2,3,4						**30,000**								**30,000**	**30,000**
Location: 415 - Ely Basins #1 & 2															
AA00672															
Silt Removal at Ely #1 & 2	2				40,000									40,000	40,000
Total 415 - Ely Basins #1 & 2					**40,000**									**40,000**	**40,000**
Location: 416 - Victoria Basin															
AA00677															
Silt Removal at Victoria Basin	2				110,000									110,000	110,000
Total 416 - Victoria Basin					**110,000**									**110,000**	**110,000**
Location: 417 - Montclair Basins #1,2,3,4															
TS07008															
Silt Removal at Montclair #3	3			10,000										10,000	10,000
TS07009															
Silt Removal at Montclair #4	3			5,000										5,000	5,000
Total 417 - Montclair Basins #1,2,3,4				**15,000**										**15,000**	**15,000**
Location: 429 - Ely Basin #3															
AA00673															
Silt Removal at Ely #3	2				35,000									35,000	35,000
Total 429 - Ely Basin #3					**35,000**									**35,000**	**35,000**
Total GL				**7,396,000**	**4,461,000**	**122,000**								**11,979,000**	**11,979,000**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Fund: WC - Recycled Water Capital Fund															
Location: 310...370 - Recycled Water															
PL05010															
Ely & Other Basins Monitoring	2	(299,248)	30,000	149,000										179,000	180,000
Total 310...370 - Recycled Water		**(299,248)**	**30,000**	**149,000**										**179,000**	**180,000**
Total GL		**(299,248)**	**30,000**	**149,000**										**179,000**	**180,000**
Total Dept: GL		**(299,248)**	**213,100**	**7,803,525**	**4,461,000**	**122,000**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**12,599,625**	**12,342,100**
Dept: 525															
Fund: GG - Internal Service Fund															
Location: 116 - RP-1 Operations Center															
LB05011															
35 C INCUBATOR	3	3,392	5,638											5,638	5,638
LB05013															
Environmental Chamber	2	0	8,391											8,391	8,391
LB07001															
Autoclave	3			11,050										11,050	11,050
LB07002															
ICP PE Optima-5300DV	2			123,616										123,616	123,616
LB07003															
Fume Hood	2			14,728										14,728	14,728
Total 116 - RP-1 Operations Center		**3,392**	**14,029**	**149,394**										**163,423**	**163,423**
Total GL		**3,392**	**14,029**	**149,394**										**163,423**	**163,423**
Fund: RC - Regional Capital Improvements															
Location: 116 - RP-1 Operations Center															
AA00065															
Lab - Replace Fume Hood System	3				44,440									44,440	44,440
AA00068															
Lab -BOD Incubator Replacement	3				4,111									4,111	4,111
LB06001															
Lab-BOD Incubtr	3	0	4,111											4,111	4,111
LB06002															
GC/MS Semi-volaties	3	0	121,263											121,263	121,263
LB06005															
Clean Bench	3	32,187	32,583											32,583	32,583
LB06006															
Turbo Vap	3	9,159	9,159											9,159	9,159
LB06007															
Dionex Upgrade	3	0	5,934											5,934	5,934
LB06008															
DRC Channel	3	6,400	7,004											7,004	7,004
Total 116 - RP-1 Operations Center		**47,746**	**180,054**		**48,551**									**228,605**	**228,605**
Total GL		**47,746**	**180,054**		**48,551**									**228,605**	**228,605**
Fund: RW - Recharge Water Fund															
Location: 116 - RP-1 Operations Center															
LB07004															
IC Dionex	2			36,121										36,121	36,121
LB07005															
GCMS for Volatiles	3			68,721										68,721	68,721
Total 116 - RP-1 Operations Center				**104,842**										**104,842**	**104,842**
Location: 380 - Recharge Water Prog. Admin.															
LB06009															
TOC Analyzer	2	35,208	35,342											35,342	35,342
LB06010															
Segmntd Flow Analyzr	3	51,797	56,569											56,569	56,569
Total 380 - Recharge Water Prog. Admin.		**87,004**	**91,911**											**91,911**	**91,911**
Total GL		**87,004**	**91,911**	**104,842**										**196,753**	**196,753**
Total Dept: GL		**138,142**	**285,994**	**254,236**	**48,551**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**588,781**	**588,781**
Dept: 533															
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
EB06001															
NRW SITE RECRDRS(5)	3	0	17,263											17,263	17,263
Total 410...440 - NRW		**0**	**17,263**											**17,263**	**17,263**
Total GL		**0**	**17,263**											**17,263**	**17,263**
Total Dept: GL		**0**	**17,263**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**17,263**	**17,263**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 540															
Fund: GG - Internal Service Fund															
Location: 116 - RP-1 Operations Center															
OA05001															
Composite Sampler	3	15,922	16,538											16,538	16,538
Total 116 - RP-1 Operations Center		**15,922**	**16,538**											**16,538**	**16,538**
Total GL		**15,922**	**16,538**											**16,538**	**16,538**
Fund: RC - Regional Capital Improvements															
Location: 230...238 - RP1															
EN04026															
RP1 Coating Maintenance, Phl												0	146,800	146,800	146,800
Total 230...238 - RP1												**0**	**146,800**	**146,800**	**146,800**
Location: 270...274 - RP4															
EN04029															
RP4 Coating Maintenance, Ph I												0	47,750	47,750	51,400
Total 270...274 - RP4												**0**	**47,750**	**47,750**	**51,400**
Total GL												**0**	**194,550**	**194,550**	**198,200**
Fund: RO - Regional Operations & Maint															
Location: 230...238 - RP1															
OA04001															
RP1 Centrifuges vs Belft Filtr		0	42,000											42,000	46,000
Total 230...238 - RP1		**0**	**42,000**											**42,000**	**46,000**
Total GL		**0**	**42,000**											**42,000**	**46,000**
Total Dept: GL		**15,922**	**58,538**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**194,550**	**253,088**	**260,738**
Dept: 541															
Fund: GG - Internal Service Fund															
Location: 117 - Maintenance Facility - North															
EP07001															
Purchase 2 Service Bed Trucks	3			49,565										49,565	49,565
EP07002															
Purchase 9 Replacement Trucks	3			218,194										218,194	218,194
Total 117 - Maintenance Facility - North				**267,759**										**267,759**	**267,759**
Location: 801 - Agency Fleet Expense															
EP06001															
(8) 3/4Ton Trucks-Short Bed	3	192,305	214,880											214,880	214,880
Total 801 - Agency Fleet Expense		**192,305**	**214,880**											**214,880**	**214,880**
Total GL		**192,305**	**214,880**	**267,759**										**482,639**	**482,639**
Fund: RC - Regional Capital Improvements															
Location: 130 - RP-1 Administration															
EP07003															
Major Repairs/Replacements	2			484,875										484,875	484,875
Total 130 - RP-1 Administration				**484,875**										**484,875**	**484,875**
Location: 221 - Montclair Lift Station															
EP06003															
Repl Stndby Generator	1	0		45,370										45,370	45,183
Total 221 - Montclair Lift Station		**0**		**45,370**										**45,370**	**45,183**
Location: 230...238 - RP1															
EN04022															
RP1 Sludge Hopper Ports								252,100						252,100	254,100
EP06004															
RP1 Major Equipment Repair	3	289,563	455,000											455,000	455,000
EP06005															
RP1 Blower #4 Instl	2	26,952	507,000	825,500										1,332,500	1,332,500
Total 230...238 - RP1		**316,515**	**962,000**	**825,500**				**252,100**						**2,039,600**	**2,041,600**
Location: 240...244 - RP2															
EP07004															
Purchase 12 Waukesha VHP Heads	1			40,083										40,083	40,083
Total 240...244 - RP2				**40,083**										**40,083**	**40,083**
Location: 820 - RP5 Manure Digester															
EP06002															
Replace Iron Sponge	1	0	28,028											28,028	28,028
Total 820 - RP5 Manure Digester		**0**	**28,028**											**28,028**	**28,028**
Total GL		**316,515**	**990,028**	**1,395,828**				**252,100**						**2,637,956**	**2,639,769**
Total Dept: GL		**508,820**	**1,204,908**	**1,663,587**	**0**	**0**	**0**	**252,100**	**0**	**0**	**0**	**0**	**0**	**3,120,595**	**3,122,408**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Dept: 542															
Fund: CC - Co-Composting Capital															
Location: 595 - RCA Comp Facility Operations															
PA07001															
Taylor-Dunn narrow isle cart	2			7,543										7,543	7,543
PA07002															
Purchase welder,plasma cutter	2			8,081										8,081	8,081
PA07003															
Purchase Tools,Wreches,Guages	2			10,775										10,775	10,775
Total 595 - RCA Comp Facility Operations				**26,399**										**26,399**	**26,399**
Total GL				**26,399**										**26,399**	**26,399**
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
PA06001															
Paint HQ Interior	3	19,500	25,229											25,229	25,229
Total 111 - Headquarters Facility Admin		**19,500**	**25,229**											**25,229**	**25,229**
Location: 117 - Maintenance Facility - North															
PA07004															
Replace failing hoses	3			10,775										10,775	10,775
Total 117 - Maintenance Facility - North				**10,775**										**10,775**	**10,775**
Location: 118 - Maintenance Facility - South															
PA06004															
Portable Airflow Sys	3	0	5,388											5,388	5,388
PA06005															
Repl SCBA Equip	2	0	5,388											5,388	5,388
Total 118 - Maintenance Facility - South		**0**	**10,776**											**10,776**	**10,776**
Total GL		**19,500**	**36,005**	**10,775**										**46,780**	**46,780**
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
PA06006															
Phil Lift Stn Valves	3	13,034	16,899											16,899	16,899
Total 410...440 - NRW		**13,034**	**16,899**											**16,899**	**16,899**
Total GL		**13,034**	**16,899**											**16,899**	**16,899**
Fund: RC - Regional Capital Improvements															
Location: 114 - Warehouse															
PA06002															
RP1 HVAC Cntrl Upgrd	2	0		41,938										41,938	41,938
Total 114 - Warehouse		**0**		**41,938**										**41,938**	**41,938**
Location: 116 - RP-1 Operations Center															
PA07005															
Replace Roof On RP1 Complex	2			140,435										140,435	140,435
Total 116 - RP-1 Operations Center				**140,435**										**140,435**	**140,435**
Location: 117 - Maintenance Facility - North															
AA00462															
RP1, Crane Replacement	3							431,276						431,276	431,276
PA06021															
(2)Electrical Carts	3	15,048	19,452											19,452	19,452
PA07006															
Corrosion protection	3			108,630										108,630	108,630
PA07007															
Asphalt repair/slurry sealing	3			108,630										108,630	108,630
Total 117 - Maintenance Facility - North		**15,048**	**19,452**	**217,260**				**431,276**						**667,988**	**667,988**
Location: 118 - Maintenance Facility - South															
PA06003															
(5) Portable Pumps	3	31,543	32,863											32,863	32,863
Total 118 - Maintenance Facility - South		**31,543**	**32,863**											**32,863**	**32,863**
Location: 230...238 - RP1															
AA00473															
Asphalt TP1 and Warehouse area	3							344,800						344,800	344,800
PA05010															
TP1 Build Shops at CL2 Bldg	3	0	31,832											31,832	31,832
PA06008															
RP1 Digester Pumps	3	17,111	68,000	12,813										80,813	81,726
PA06009															
Rebld IPS Pmps 4&5	3	21,688	33,826											33,826	33,826
PA06010															
RP1 Dgstr PD Pmps	2	40,709	48,631	51,864	55,096									155,591	155,591

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Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
PA06011 RP1 (3)Gas Cmprsrs	2	55,912	88,275											88,275	48,275
PA06012 RP1 Prmry Clarifrs	2	84,325	86,200	86,433	90,510			2,481						265,624	265,624
PA06013 RP1 Dewtrg Conveyor	1	0	14,000	9,121										23,121	63,121
PA06014 RP1 Rebld Belt Press	2	16,621	15,345	163,776										179,121	179,121
PA06019 RP1 (12)LagnCannon	3	12,706	13,129											13,129	13,129
PA07008 Purhase DAFT Pumps	3			38,510										38,510	38,510
PA07009 Replace headworks conveyor	2			66,490										66,490	66,490
PA07010 Replace 3 RAS Pumps	2			131,141										131,141	131,141
PA07011 Overhaul All 3 DAFT's Skimmers	2			195,790										195,790	195,790
PA07012 Rebuild All 4 Bar Screens	2			432,840										432,840	432,840
Total 230...238 - RP1		**249,071**	**399,238**	**1,188,778**	**145,606**			**347,281**						**2,080,903**	**2,081,816**
Location: 250...254 - CCWRP															
PA06015 RP1 Rebld Belt Press	2	8,846	8,900	157,714										166,614	166,614
PA06016 CCWRF Util Pmp Ovrhl	3	15,469	27,360	25,860										53,220	53,220
PA06017 CCWRF Scum Well Pmp	3	9,821	9,745	9,745	10,284									29,774	29,774
PA06018 CCWRF Sludg Pmps	3	28,621	97,939	65,093										163,032	97,939
PA06020 CCWRF Mxd Liq Pmp	3	19,067	19,360	19,360	19,683	20,006								78,409	78,409
PA06022 CCWRF Refurb ParptWall	2	0		33,015										33,015	33,015
Total 250...254 - CCWRP		**81,825**	**163,304**	**310,787**	**29,967**	**20,006**								**524,064**	**458,971**
Location: 280...284 - RP5															
PA06023 Forklift	3	23,668	23,762											23,762	23,762
Total 280...284 - RP5		**23,668**	**23,762**											**23,762**	**23,762**
Location: 595 - RCA Comp Facility Operations															
PA07013 Purchase 2 20' Sea Containers	3			4,849										4,849	4,849
Total 595 - RCA Comp Facility Operations				**4,849**										**4,849**	**4,849**
Location: 820 - RP5 Manure Digester															
PA06007 Replace Conveyor System	1	100,000	111,200											111,200	111,200
Total 820 - RP5 Manure Digester		**100,000**	**111,200**											**111,200**	**111,200**
Total GL		**501,155**	**749,819**	**1,904,047**	**175,573**	**20,006**		**778,557**						**3,628,002**	**3,563,822**
Total Dept: GL		**533,689**	**802,723**	**1,941,221**	**175,573**	**20,006**	**0**	**778,557**	**0**	**0**	**0**	**0**	**0**	**3,718,080**	**3,653,900**
Dept: 543															
Fund: GG - Internal Service Fund															
Location: 230...238 - RP1															
EA07001 Portable Flow Meter Equipment	2			14,008										14,008	14,008
EA07002 Replace Test Equipment	2			34,958										34,958	34,958
EA07003 Gas Detectors Replacement	2			12,930										12,930	12,930
Total 230...238 - RP1				**61,896**										**61,896**	**61,896**
Total GL				**61,896**										**61,896**	**61,896**
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
EA07004 Replace VFD at Philly LS	2			19,896										19,896	19,896
Total 410...440 - NRW				**19,896**										**19,896**	**19,896**
Total GL				**19,896**										**19,896**	**19,896**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Fund: RC - Regional Capital Improvements															
Location: 230...238 - RP1															
EA03007 Digester Electrical Compliance		1,387	49,260											49,260	350,000
EA04001 TP1 ABS Pump Station Power Fee		4,734	15,790											15,790	16,075
EA04002 TP1 MCC UTILITY WATER PUMP		0		40,724										40,724	81,738
EA04005 RP1/2/4/CCW DCS Alarm Upgrade		2,076	25,101											25,101	33,661
EA04008 RP1 Public Address System		0	19,000											19,000	19,000
EA07005 Install Eyewash Station @ TP1	2			29,170										29,170	29,170
EA07006 RP1 Flow Meter(s) Replacement	2			119,860										119,860	119,860
EA07007 Relocation of pH/Cond Panel	3			74,006										74,006	74,006
EA07008 RP1 Air System Upgrades	2			49,226										49,226	49,226
EA07009 RP1 RAS Pumps VFD Installation	2			75,170										75,170	75,170
EA07010 RP1 Lagoon Bubbler Sys Upgrade	3			51,420										51,420	51,420
EA07011 RP1 Daft Bubbler Sys Reloc	3			25,710										25,710	25,710
EA07012 Westwind Park Station Upgrade	3			10,994										10,994	10,994
EA07013 RP1 Stormwater PS Upgrade	3			15,533										15,533	15,533
EA07014 RP1 IPS Bldg & VFD Upgrade	2			223,834										223,834	223,834
PB05003 RP1 IPS 3 VFD Pumps-Install	3	0		22,628										22,628	22,628
PB05005 TP1 VFD for Intake Pump	2	0	26,938											26,938	26,938
PB06001 RP1 Elec Parallel Eq	3	0	151,073											151,073	151,073
Total 230...238 - RP1		**8,197**	**287,162**	**738,275**										**1,025,437**	**1,376,036**
Total GL		**8,197**	**287,162**	**738,275**										**1,025,437**	**1,376,036**
Total Dept: GL		**8,197**	**287,162**	**820,067**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,107,229**	**1,457,828**
Dept: 544															
Fund: GG - Internal Service Fund															
Location: 118 - Maintenance Facility - South															
EM07001 Purchase Emissions Analyzer	2			13,469										13,469	13,469
Total 118 - Maintenance Facility - South				**13,469**										**13,469**	**13,469**
Location: 130 - RP-1 Administration															
EM06005 RP1/RP4 Furniture	3	0	8,081											8,081	8,081
Total 130 - RP-1 Administration		**0**	**8,081**											**8,081**	**8,081**
Location: 806 - Other Maintenance Equipment															
EM06002 Space Retriev Equip	2	3,843	5,388											5,388	5,388
EM06003 Light Bars-Coll Vhcls	2	0	5,388											5,388	5,388
EM06004 (2)Cab Trucks & Shells	3	34,569	47,410											47,410	47,410
Total 806 - Other Maintenance Equipment		**38,412**	**58,186**											**58,186**	**58,186**
Total GL		**38,412**	**66,267**	**13,469**										**79,736**	**79,736**
Fund: RC - Regional Capital Improvements															
Location: 170 - RP-4 Administration															
EM06013 RP4 Trailer IERCF	3	0	58,139											58,139	58,139
Total 170 - RP-4 Administration		**0**	**58,139**											**58,139**	**58,139**
Location: 210 - Regional Administration															
EM06010 Web Info Sys-Execs	3	0	25,766											25,766	25,766
PA05015 RP1 Siloxane Damage Recovery		428,630	467,460											467,460	500,000
Total 210 - Regional Administration		**428,630**	**493,226**											**493,226**	**525,766**

Appendix B–Current and Proposed Capital Projects Summary
List by Fund and Location

Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
Location: 230...238 - RP1															
EM05009 RP1 CEM DAHS	1	0	47,029											47,029	47,029
EM05010 RP1 DCS Vers 7 Hrdware Upgrade	3	90,564	91,403	28,000										119,403	160,485
EM05013 RP1 Install Wireless Workstatn	3	0	150,922	117,737										268,659	117,155
EM05015 RP1 Network Analyzer	3	0	34,698											34,698	34,698
EM05016 RP1 UPS at MCB Replacement	2	0	25,434											25,434	25,434
EM05017 RP1 Gas System Automation	3	11,456	48,436											48,436	55,366
EM05018 TP1 Rebuild I/O Hubs	3	27,248	60,786											60,786	60,786
EM06008 GE PLC Upgrades-CoGen CntrlSys	2	2,041	12,079											12,079	12,079
EM06011 (4) Laptops DCS Pos	2	12,741	46,294											46,294	46,294
EM06014 (6)GasFlow & kW Mtrs	3	0	36,673											36,673	36,673
EM06015 RP1 Instl Gas Filtration Systm	3	34,865	32,979											32,979	32,979
EM06016 RP1 Trbo Chrg Cntrl	3	0	71,403											71,403	71,403
EM07002 Purchase set of VHP heads	3			38,790										38,790	38,790
PA03014 RP1 Rebld/Replc Dewtr Hopper		7,524	24,590											24,590	36,100
Total 230...238 - RP1		**186,439**	**682,726**	**184,527**										**867,253**	**775,271**
Location: 250...254 - CCWRP															
EM05011 CCWRP DCS Network Security Enh	2	7,563	68,980											68,980	69,214
EM06009 (8) DCS Wrkstns	3	37,815	38,670											38,670	38,670
Total 250...254 - CCWRP		**45,378**	**107,650**											**107,650**	**107,884**
Location: 270...274 - RP4															
EM05012 RP4 Wireless LAN Bridge	2	2,250	117,000	111,081										228,081	274,396
EM06012 RP4 RS Mnt Cntrl Cntr	3	0	74,088											74,088	74,088
Total 270...274 - RP4		**2,250**	**191,088**	**111,081**										**302,169**	**348,484**
Location: 285 - RP-5 Digester															
EM06006 Upgrde Control Panels @ RegDig	3	51,612	69,930											69,930	69,930
EM06007 Upgrd Fxboro SWto8.x	3	0	52,300											52,300	52,300
Total 285 - RP-5 Digester		**51,612**	**122,230**											**122,230**	**122,230**
Location: 806 - Other Maintenance Equipment															
EM06001 Vactor/Jetter#9017	3	321,223	323,250											323,250	323,250
Total 806 - Other Maintenance Equipment		**321,223**	**323,250**											**323,250**	**323,250**
Total GL		**1,035,532**	**1,978,309**	**295,608**										**2,273,917**	**2,261,024**
Total Dept: GL		**1,073,945**	**2,044,576**	**309,077**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2,353,653**	**2,340,760**
Dept: 552															
Fund: GG - Internal Service Fund															
Location: 140 - CCWRP Administration															
CW06004 SAWPA SARI 4A2 Meter Maint		0	2,500											2,500	2,500
CW06005 SAWPA SARI Sewer Pipeln Maint		0	5,500											5,500	5,500
CW06006 San Bern Cnty SantaAna Outfall		0	7,000											7,000	7,000
CW07004 SAWPA SARI 4A2 Meter Maint.				2,500										2,500	2,500
CW07005 SAWPA SARI Sewer Pipeline Main				5,500										5,500	5,500
CW07006 San Bern Cnty Santa Ana Outfal				7,000										7,000	7,000
CW08004 SAWPA SARI 4A2 Meter Maint.					2,500									2,500	2,500

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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
CW08005															
SAWPA SARI Sewer Pipeline Main					5,500									5,500	5,500
CW09004															
SAWPA SARI 4A2 Meter Maint						2,500								2,500	2,500
CW09005															
SAWPA SARI Sewer Pipeline Main						5,500								5,500	5,500
Total 140 - CCWRP Administration		**0**	**15,000**	**15,000**	**8,000**	**8,000**								**46,000**	**46,000**
Total GL		**0**	**15,000**	**15,000**	**8,000**	**8,000**								**46,000**	**46,000**
Fund: RC - Regional Capital Improvements															
Location: 285 - RP-5 Digester															
CW07001															
Replace Iron Sponge at RP5 SHF	1			144,235										144,235	144,235
Total 285 - RP-5 Digester				**144,235**										**144,235**	**144,235**
Total GL				**144,235**										**144,235**	**144,235**
Total Dept: GL		**0**	**15,000**	**159,235**	**8,000**	**8,000**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**190,235**	**190,235**
Dept: 553															
Fund: GG - Internal Service Fund															
Location: 111 - Headquarters Facility Admin															
EB07002															
Install PLC at Central Plant	2			37,494										37,494	37,494
Total 111 - Headquarters Facility Admin				**37,494**										**37,494**	**37,494**
Total GL				**37,494**										**37,494**	**37,494**
Fund: NC - NRW Capital Improvement Fund															
Location: 410...440 - NRW															
EB07001															
NRW, Site Recorders	3			17,263										17,263	17,263
Total 410...440 - NRW				**17,263**										**17,263**	**17,263**
Total GL				**17,263**										**17,263**	**17,263**
Fund: RC - Regional Capital Improvements															
Location: 222 - Prado Lift Station															
EB05006															
CIW Pump Controller	3	3,884	9,841											9,841	9,841
Total 222 - Prado Lift Station		**3,884**	**9,841**											**9,841**	**9,841**
Location: 240...244 - RP2															
EB05002															
RP2 VFDs Replacement	3	0	16,409											16,409	29,317
EB05005															
RP2 Digester Level Transmitter	3	0	6,275											6,275	6,275
Total 240...244 - RP2		**0**	**22,684**											**22,684**	**35,592**
Location: 250...254 - CCWRP															
EB05009															
CCWRP Dissolved Oxygen Probes	3	0	1,726											1,726	19,568
EB07003															
Replace Two Turbidity Analyzer	1			6,488										6,488	6,488
EB07004															
Turbidity Analyzer for Filters	2			7,824										7,824	7,824
Total 250...254 - CCWRP		**0**	**1,726**	**14,312**										**16,038**	**33,880**
Total GL		**3,884**	**34,251**	**14,312**										**48,563**	**79,313**
Total Dept: GL		**3,884**	**34,251**	**69,069**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**103,320**	**134,070**
Dept: 554															
Fund: GG - Internal Service Fund															
Location: 117 - Maintenance Facility - North															
PA07014															
Office Trailer for RP1 PAC	3			45,794										45,794	45,794
PA07015															
Purchase Vehicles	3			53,875										53,875	53,875
PA07016															
Purchase GEM Carts	3			12,930										12,930	12,930
Total 117 - Maintenance Facility - North				**112,599**										**112,599**	**112,599**
Location: 210 - Regional Administration															
AA00607															
Replace 4 oldest laptops	2				25,609									25,609	25,609
AA00608															
Alarm optimization all Plants	3				76,411									76,411	76,411
AA00609															
WAN Emerg Comm Trailer	3				104,361									104,361	104,361

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Project # / Description	Priority	Current FY	05/06	06/07	07/07	08/09	09/10	10 Year CIP 10/11	11/12	12/13	13/14	14/15	15/16	10 Year Budget	Total Project Budget
continued from previous page															
AA00611															
Replace 6 oldest laptops	2					38,414								38,414	38,414
PA07017															
Replace 4 the Oldest Laptops	2			25,609										25,609	25,609
PA07018															
Terminal Services PAC Network	3			110,968										110,968	110,968
PA07019															
Laptop Computers for new staff	2			18,839										18,839	18,839
Total 210 - Regional Administration				**155,416**	**206,381**	**38,414**								**400,211**	**400,211**
Total GL				**268,015**	**206,381**	**38,414**								**512,810**	**512,810**
Fund: RC - Regional Capital Improvements															
Location: 116 - RP-1 Operations Center															
PA07020															
Replace Domain Servers	2			36,055										36,055	36,055
Total 116 - RP-1 Operations Center				**36,055**										**36,055**	**36,055**
Location: 210 - Regional Administration															
AA00606															
PC Workstation Replacement	3				39,228									39,228	39,228
AA00610															
PC Workstation Replacement	3					49,036								49,036	49,036
AA00612															
Automated Plant Chem Order Sys	3					103,038								103,038	103,038
AA00628															
Upgrade CP30B's to CP60's	2				130,526									130,526	130,526
PA07021															
PC Workstation Replacement	3			39,228										39,228	39,228
PA07022															
Upgrade CP30A's to CP60's	2			88,367										88,367	88,367
Total 210 - Regional Administration				**127,595**	**169,754**	**152,074**								**449,423**	**449,423**
Location: 230...238 - RP1															
AA00613															
Advanced Plant Automation	3					150,877								150,877	150,877
Total 230...238 - RP1						**150,877**								**150,877**	**150,877**
Location: 240...244 - RP2															
PA07023															
RP2 Alarm Paging System	2			18,368										18,368	18,368
Total 240...244 - RP2				**18,368**										**18,368**	**18,368**
Total GL				**182,018**	**169,754**	**302,951**								**654,723**	**654,723**
Total Dept: GL			**0**	**450,033**	**376,135**	**341,365**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,167,533**	**1,167,533**
Dept: 580															
Fund: RC - Regional Capital Improvements															
Location: 820 - RP5 Manure Digester															
OE06001															
RED Shower Trailer	2	6,208	34,007											34,007	34,007
Total 820 - RP5 Manure Digester		**6,208**	**34,007**											**34,007**	**34,007**
Total GL		**6,208**	**34,007**											**34,007**	**34,007**
Total Dept: GL		**6,208**	**34,007**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**34,007**	**34,007**
Dept: 590															
Fund: OC - Organics Mgmt Cap.Imprv. Fund															
Location: 870 - RP-4 Composting															
OR07001															
RP-4 IERCA Compost Storage Fac	1			1,869,000										1,869,000	1,869,000
Total 870 - RP-4 Composting				**1,869,000**										**1,869,000**	**1,869,000**
Total GL				**1,869,000**										**1,869,000**	**1,869,000**
Fund: OM - Organics Mgmt-Oper. & Maint.															
Location: 510...572 - Compost															
OR06003															
Prado Basin Regional Org Mgmt		143,166	250,000											250,000	250,000
PL02041															
IE Reg Composting Facilty Proj		165,179	12,784,496	3,000,000										15,784,496	33,353,985
PL03001															
Co-Compostg PhaseOut/PilotProj		7,475	40,000	610,000										650,000	650,000
Total 510...572 - Compost		**315,820**	**13,074,496**	**3,610,000**										**16,684,496**	**34,253,985**
Total GL		**315,820**	**13,074,496**	**3,610,000**										**16,684,496**	**34,253,985**
Total Dept: GL		**315,820**	**13,074,496**	**5,479,000**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**18,553,496**	**36,122,985**
57,607,908															
Total All Dept			**105,886,414**	**182,279,341**	**88,076,059**	**64,390,247**	**54,045,059**	**34,240,885**	**37,417,112**	**25,565,100**	**20,824,416**	**34,657,812**	**32,275,223**	**679,657,668**	**740,675,056**

Recycled Water Groundwater Recharge Project
Chino Basin Recharge Master Plan, Phase I

Need for Recharge Project: Reduce dependence on expensive imported water supplies and provide a local drought-proof supply of new water for the Chino Basin

- Statewide water shortages will continue in California as result of northern California Bay-Delta issues, Colorado River cutbacks and increased population. Imported water supplies from northern California are the most expensive source of water for the Chino Basin and are increasingly unreliable, especially during droughts.
- Additional reliable, local water supplies are needed in the Chino Basin to meet the future needs of our rapidly growing cities and to avoid future drought shortages.
- High quality recycled water, produced by IEUA's recycled water plants, is released to the Santa Ana River and has been used downstream for decades to recharge the Orange County Groundwater Basin.
- Chino Basin community leaders including the Chino Basin Watermaster, Cucamonga County Water District, Monte Vista Water District, Inland Empire Utilities Agency and the Cities of Chino, Chino Hills, Fontana, Ontario, Rancho Cucamonga, and Upland have developed an integrated water supply plan to meet the future needs of Chino Basin which includes use of high quality recycled water to recharge the Chino Groundwater Basin.
- The Chino Basin Recharge Project is needed to meet the requirements of the court approved Optimum Basin Management Plan and the Chino Basin Peace Agreement.
- The Governor's Water Recycled Task Force (2003) and the California Bay Delta Authority (2000) recommend that recycled water use be expanded to reduce reliance on imported water from the Delta and Colorado River.

Proposed Phase I Project: Recharge up to 44,000 AF annually of stormwater, recycled water and imported water to implement the Chino Basin Recharge Master Plan and Optimum Basin Management Program

- Improves 7 existing recharge basins and stormwater diversion facilities located in Ontario, Rancho Cucamonga and Fontana.
- Blends high quality stormwater, recycled water and imported water in the recharge basins, and stores excess water in normal/wet years.
- Recharges up to 20 percent recycled water, or about 8,000 AFY.
- Uses outstanding source control, multiple barrier approach for protecting water quality.
- $40 million capital investment, 50% funded through state Proposition 13 grants (SAWPA/SWRCB).
- Phase I project is scheduled to start in 2004, with full use of all 20 recharge basins at build out in ten years.

Potential Basin Recharge Capacity (acre-feet/year)

Recharge Facilities	Storm Water	State Project Water	Recycled Water	Facilities Annual Recharge Capacity
Banana Basin	800	3,600	800	5,200
Declez Basin	300	1,800	300	2,400
Etiwanda Conservation Ponds	1,100	5,800	1,100	8,000
Hickory Basin	900	4,600	900	6,400
Jurupa Basin	0	0	0	Storage Only
RP-3 Basin	1,700	8,600	1,700	12,000
Turner Basin 1	900	900	900	2,700
Turner Basin 3&4	1,800	3,400	1,800	7,000
Total	**7,500**	**28,700**	**7,500**	**43,700**

Recharge Project Participants:

- Chino Basin Watermaster
- San Bernardino County Flood Control District
- Chino Basin Water Conservation District
- Inland Empire Utilities Agency

Recharge Project Benefits:

- Blends high quality stormwater and recycled water which allows for more local and less expensive water supplies to recharge the basin and reduces the need for more expensive imported water.
- Phase I project will offset need for about 16,000 AF of imported water, saving about $4 million per year in imported water purchases.
- Chino Basin integrated capital facilities plan over next ten years will provide for the development of 95,000 AF of new local supplies, 100,000 AF of new storage, 33,000 AF of new dry year yield.
- Provides reliable "drought-proof" water supplies to meet future growth without any significant increase in water and wastewater rates.
- Enhances the capacity to recharge more imported water in wet years when this water is more plentiful and less expensive. Helps to offset losses from the Colorado River through conjunctive management of ground and surface water supplies.
- Is an essential element of the regional Chino Basin Optimum Basin Management Program, improving water quality and yield from the Chino Groundwater Basin.

Recharge Project is Consistent with the Following:

- Chino Basin Recharge Master Plan, Phase I Final Report (1998)
- Chino Basin Watermaster Optimum Basin Management Program (OBMP) and Peace Agreement (2000)
- IEUA Urban Water Management Plan (2000) and MWD Urban Water Management Plan (2000)
- Chino Basin Recycled Water Groundwater Recharge Projects Facilities Plan (2000)
- California Bay Delta Authority Record of Decision (2000)
- Chino Basin Watermaster OBMP Groundwater Recharge Master Plan (2001)
- IEUA Recycled Water System Feasibility Study (2002)
- IEUA Comprehensive Wastewater Facilities Master Plan (2002)
- Santa Ana Watershed Project Authority's (SAWPA) Integrated Water Management Plan (2002)
- U.S. Bureau of Reclamation's So. California Comprehensive Water Reclamation and Resources Plan(2003)
- California Recycled Water Task Force (2003)
- IEUA Title 22 Engineering Report for Phase I Recycled Water Groundwater Recharge Project (2003)
- IEUA and Orange County Water District Memorandum of Understanding for watershed protection and maximum use of recycled water for mutual benefit (2003)
- Approved by Chino Basin Watermaster Stakeholders (2003)

About the Chino Basin

- Largest groundwater basin in southern California
- Adjudicated in 1978 and managed through a court-appointed Chino Basin Watermaster
- Safe yield is 140,000 AFY which is pumped to meet municipal, industrial and agricultural needs.
- About 5,000,000 AF of unused storage capacity remains in the groundwater basin.

Inland Empire Utilities Agency (IEUA)

- IEUA provides wholesale water and wastewater service to the western portion of San Bernardino County (Chino, Ontario, Fontana, Chino Hills, Montclair, Rancho Cucamonga and Upland).
- The service area covers 242 square miles with current population estimated at 700,000
- Total annual water demands currently average 250,000 AFY.
- Approximately 25% of water supply is purchased imported water (SWP), 65% from groundwater, 7% from local stream flow and the remaining 3% is from recycled water.
- Current annual recycled water sales average 6,200 AF to over 150 customers.
- In July 2003, IEUA was honored by the Santa Ana Regional Water Quality Board for providing "a very high level of environmental, water quality and public health protection . . . to its service area."

Inland Empire
UTILITIES AGENCY
A Municipal Water District

Agency Information

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