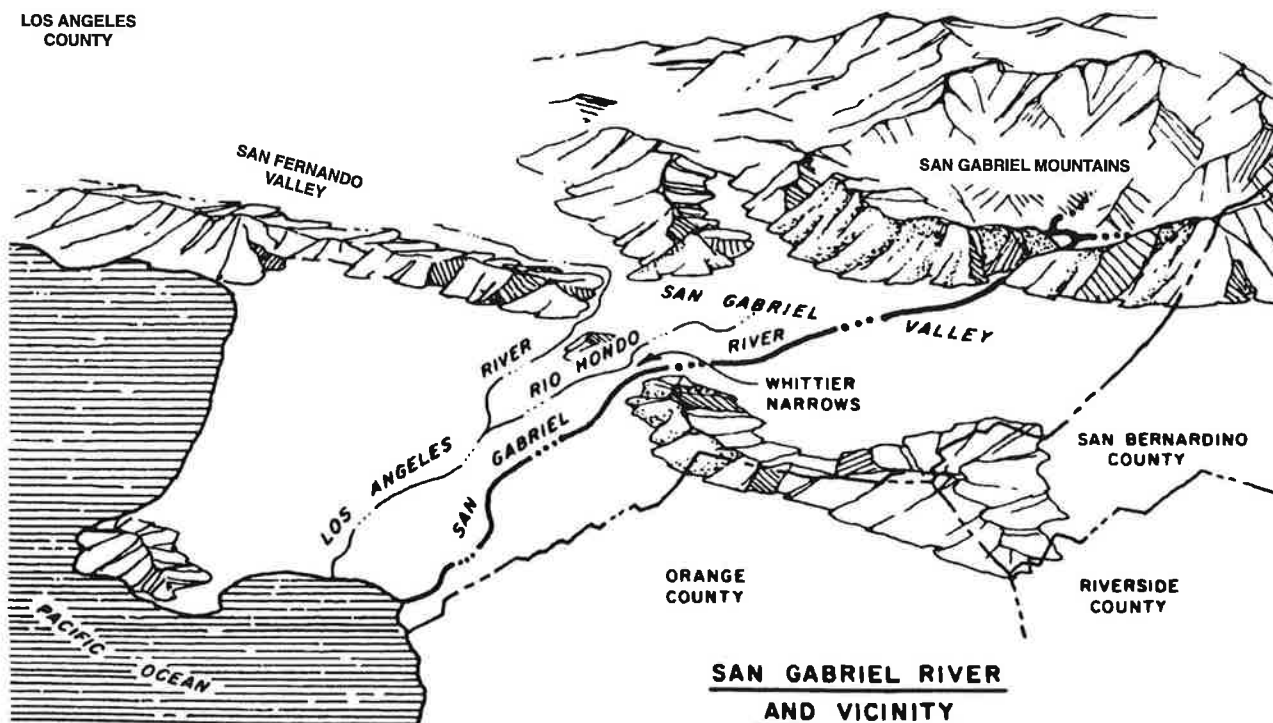


WATERMASTERS
GLENN A. BROWN
RICHARD A. RHONE
THOMAS M. STETSON

MAILING ADDRESS
101 N. BRAND BLVD.
SUITE 1780
GLENDALE, CA 91203

FORTY-THIRD ANNUAL REPORT
OF THE
SAN GABRIEL RIVER WATERMASTER
FOR
2005 - 06



City of Long Beach, et al., vs. San Gabriel Valley Water Co., et al.
Case No. 722647 – Los Angeles County

February 28, 2007

SAN GABRIEL RIVER WATERMASTER

FOR
CITY OF LONG BEACH ET AL VS SAN GABRIEL VALLEY WATER CO. ET AL
CASE NO. 722647-LOS ANGELES COUNTY

WATERMASTERS
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February 28, 2007

To: Clerk of Superior Court of Los Angeles
County and All Parties

Re: Watermaster Report for 2005-06 Water Year

Gentlemen:

We have the honor of submitting the Forty-third Annual Report of the San Gabriel River Watermaster for water year 2005-06, in accordance with the Judgment in Case No. 722647 entered September 24, 1965. A complete summary of Watermaster Findings is contained in this report.

The water year 2005-06 is the twelfth year in the Third Long-term Accounting Period. The average precipitation at the four stations used to represent San Gabriel Valley rainfall for 2005-06 was 16.8 inches or 91 percent of the long-term average annual rainfall of 18.52 inches as defined in the Judgment. The ten-year average rainfall from 1996-97 through 2005-06 amounted to 19.3 inches, which, according to Table A of the Judgment, established the Lower Area Annual Entitlement at 103,300 acre-feet for 2005-06.

The principal findings of the Watermaster under annual accounting for the year 2005-06 are as follows:

	<u>Acre-Feet</u>
1. Lower Area Annual Entitlement	103,300
2. Usable water received by Lower Area	98,118
3. Upper Area Debit for Water Year 2005-06	5,182
4. Accrued Credit of Upper Area as of September 30, 2005	127,599

- | | | |
|----|--|---------|
| 5. | Amount of Make-up Water received by
Lower Area in 2005-06 | 0 |
| 6. | Accrued Credit of Upper Area as of
September 30, 2006 | 122,417 |
| 7. | Amount of Make-up Water required to
be delivered prior to October 1, 2007 | 0 |

A complete summary of Watermaster findings is contained in Chapter IV of this report.

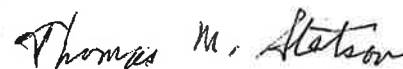
The majority of the data required by the Watermaster is furnished by the Los Angeles County Department of Public Works. The cooperation and assistance furnished by the County and other agencies is gratefully acknowledged.

Sincerely,

SAN GABRIEL RIVER WATERMASTER

By:


Glenn A. Brown


Thomas M. Stetson


Richard A. Rhone

Enclosures

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CHAPTER I. ACTIVITIES OF WATERMASTER

This report is for the forty-third year of operations under the Judgment in Case No. 722647 (the Long Beach case). Parties to the Judgment are listed on page A-1 of the Appendix. The Judgment declared that the Lower Area of the San Gabriel River System, the area downstream of Whittier Narrows, is entitled to receive an annual average of 98,415 acre-feet of Usable Water from the Upper Area, the area upstream of Whittier Narrows. The history of the litigation, the Judgment and related activities were described in the thirty-first annual report on the occasion of the Second Long-term Accounting. Therefore, they will not be restated in this report.

The activities of the Watermaster include administration of operations under the Judgment, performance of field inspections, collection of data and maintenance of records, analyses of data, preparation of the annual report presenting the required determinations and findings, and maintenance of records of transfers of defendants' water rights. All operations and reports are based on the "Water Year," which is from October 1 through September 30.

Administration

The official office and depository of records of the Watermaster is 101 N. Brand Boulevard, Suite 1780, Glendale, California. Such records are available for inspection during regular office hours at that office upon the request of any Party.

An audit of income and expenditures of the Watermaster for the water year 2005-06 was performed by the firm of Christine L. Blazey, CPA. Table 1 is the Statement of

Income and Expenditures for the water year 2005-06 based on the Blazey letter of January 10, 2007, which is in the Appendix of this Report.

TABLE 1
STATEMENT OF INCOME AND EXPENDITURES
FOR THE WATER YEAR 2005-06

Carried forward from water year 2004-05	\$986.74
Income from 2005-06 assessments	155,000.00
Interest Income	1,704.47
Total Income	157,691.21
Expenditures:	
1. Administrative fees and general operating expenses	20,882.18
2. Collection of data, field inspections and maintenance of records	49,211.77
3. Calculations and preparation of Watermaster Report for water year 2004-05	58,475.40
4. Printing and reproduction costs	4,480.38
5. Conservancy and Master Planning	11,397.85
Total expenditures	144,447.58
Balance	13,243.63

The tentative budget for the current water year 2006-07 was mailed to all Parties on July 6, 2006. Following a period of 15 days after service of the tentative budget, there being no objections received, the tentative budget became the final budget. The 2006-07 annual budget and proration of costs for payment thereof are shown in Table 2.

TABLE 2
WATERMASTER BUDGET
FOR
WATER YEAR 2006-07

1.	Administrative costs and general operating expenses	\$17,000.00
2.	Hydrologic analyses, collection of data and field inspection	50,000.00
3.	Additionally needed facilities	5,000.00
4.	Calculations and preparation of Watermaster Report for Water Year 2005-06	65,000.00
5.	San Gabriel River Conservancy and Master Planning	10,000.00
6.	Printing and reproduction costs	5,000.00
7.	Contingencies	<u>10,000.00</u>
	Total	\$162,000.00
	Less Surplus carried forward from 2005-06	6,000.00
	Less Estimated interest income	<u>1,000.00</u>
	Amount to be financed for 2006-07	\$155,000.00

Proration To Parties for Payment

Upper San Gabriel Valley Municipal Water District	50.0%	\$77,500.00
Central Basin Municipal Water District	41.2%	63,860.00
City of Long Beach	7.125%	11,043.75
City of Compton	<u>1.675%</u>	<u>2,596.25</u>
Total	100%	\$155,000.00

Watermaster Personnel

The Judgment provided for the appointment of a three-member Watermaster, one to represent the Upper Area, one to represent the Lower Area, and the third to represent both areas. On November 12, 1965, the three-member Watermaster was appointed and certified by the Court, namely Thomas M. Stetson representing the Upper Area, Max Bookman representing the Lower Area, and M. E. Salsbury representing both areas. Mr. Salsbury elected to conclude his years of service in 1985 and upon nomination from Upper San Gabriel Valley Municipal Water District (Upper District) and Central Basin Municipal Water District (Central Municipal), the Court appointed Howard H. Haile as his replacement effective February 7, 1985. Mr. Bookman elected to conclude his years of service in 1986 and upon nomination by the Lower Area Parties, the Court on January 14, 1986, appointed Richard A. Rhone to replace Mr. Bookman. This appointment was effective in February 1986.

Mr. Haile passed away on December 9, 2001. Pursuant to the Judgment, Mr. Glenn A. Brown was jointly nominated by Central Basin and Upper District as the third member of Watermaster. On July 26, 2002, Mr. Glenn A. Brown was appointed by the Court as the third member of Watermaster.

The staff work for this report was conducted by Richard Anderson for Bookman-Edmonston a division of GEI Consultants, Inc., and Stephen B. Johnson, Kevin Smead and Jenny Arevalo for Stetson Engineers Inc.

Data Collection

The Watermaster collects data on streamflow, rainfall, water quality, ground water levels, export of ground water through Whittier Narrows, reclaimed water, imported replenishment water and other information as required. The principal source of data is the Los Angeles County Department of Public Works (hereinafter County). Copies of records were obtained from the County and many conferences were held between County personnel and Watermaster personnel in order that the Watermaster would be fully informed on the facts necessary to make the determinations required by the Judgment. Other data were obtained from the Metropolitan Water District of Southern California, the County Sanitation Districts of Los Angeles County, the Water Replenishment District of Southern California, the Upper San Gabriel Valley Municipal Water District, the San Gabriel Valley Municipal Water District, the Central Basin Municipal Water District, the San Gabriel Valley Water Company, Main San Gabriel Basin Watermaster, the U. S. Army Corps of Engineers, U. S. Environmental Protection Agency, and the U. S. Geological Survey (USGS). The Watermaster makes use of water level measurements in wells collected by University of Southern California on behalf of the San Gabriel Valley Protective Association.

The collected surface flow data are summarized in a daily operation computer model. This model, developed by Watermaster personnel, aids in the efficiency and accuracy of the analyses.

Field Inspections

During the water year 2005-06, Watermaster staff made quarterly field inspections of gaging stations and other facilities. Facilities inspected included the spreading grounds, stream gaging stations, imported water delivery points and river channels in the

San Gabriel River system. Watermaster staff also measured the depth to water in a number of wells in the Whittier Narrows area to obtain data for the calculation of annual subsurface flow through Whittier Narrows. The quarterly inspections are coordinated with the water level measuring program conducted on behalf of San Gabriel Valley Protective Association.

Watermaster constructed three 1-inch PVC wells and modified one well for use in determining the Subsurface Flow through the Whittier Narrows. The section on Subsurface Flow in Chapter III contains further discussion about the construction of these wells.

Preparation of Report

One of the required functions of the Watermaster is the preparation of the annual report presenting the findings required by the Judgment. The Judgment provides that a report be prepared and submitted within five months after the end of each water year, and copies of the report are to be filed with the Court and furnished to each of the Parties. Copies are also furnished to others upon request.

Planning Activities of the San Gabriel River Watermaster

Increasing interest in the environment of the San Gabriel River system has resulted in several efforts to study, change and improve the area of the San Gabriel River system. Some of these efforts have resulted in the involvement of the San Gabriel River Watermaster.

San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy

The Conservancy was formed by the California State Legislature in 1999 (SB 216) to establish the San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy for the purpose of acquiring and managing specified lands within the Main

San Gabriel Basin, the watershed of the San Gabriel River and its tributaries, the Lower Los Angeles River and its tributaries, and the San Gabriel Mountains, to carryout the management, powers, and duties of the conservancy, as specified by the legislation.

The enabling legislation establishing the Conservancy created a Board of Directors of 13 voting members and seven ex officio non-voting members. The legislation specified that a member of the San Gabriel River Watermaster be appointed as one of the non-voting members. Mr. Thomas Stetson was appointed by the Watermaster as their representative on the Conservancy.

San Gabriel River Master Plan

The Los Angeles County Board of Supervisors in 1999 established a four-year study to master plan the San Gabriel River below Morris Reservoir. The County Department of Public Works led the study. A steering committee was established in late 1999, by the Department composed of River stakeholders. Mr. Richard Rhone represented the Watermaster on the Steering Committee. The County hired a consultant to prepare the Master Plan. The final Master Plan was approved by the County of Los Angeles Board of Supervisors on June 19, 2006. Periodic meetings on implementation of the Master Plan will be monitored by the Watermaster.

Stream Gaging Stations

The County and the U. S. Geological Survey operate the stream gaging stations on the San Gabriel River System, data from which are essential for determinations required of the Watermaster.

Plate 1, entitled "Stream Gaging Stations, Rio Hondo - San Gabriel River System," shows the general vicinity of the Whittier Narrows area. Plate 2, entitled "Map of Whittier Narrows," shows in greater detail certain features in Whittier Narrows

including wells used for calculating subsurface flow.

The accuracy of these measurements at some of the higher surface water flows is at times questionable. Also, physical changes occur in the channel sections at several of the stream gaging stations. These problems and their resolutions are discussed in Chapter III.

Memorandum of Understanding (1982)

On May 13, 1982, a Memorandum of Understanding was executed by representatives of Upper and Lower Area Parties. That document recognizes the need for a continuing cooperative working relationship between the Upper and Lower Area Parties. The purpose of the agreement was to institute under then present conditions certain practical accommodations which are not intended to constitute interpretations of or additions to the Judgment. That Memorandum of Understanding is still in effect and is included as an Appendix to the Thirty-First Annual Watermaster Report.

Transfer of Water Rights, Change of Address and Change of Name of Parties

During the water year 2005-06 there were no transfers of water rights, changes of address or changes of names of Parties reported to the Watermaster. The San Gabriel River Watermaster relocated its offices and advised parties by notice dated January 3, 2007. The new office address is: San Gabriel River Watermaster 101 North Brand Boulevard, Suite 1780, Glendale, CA 91203.

CHAPTER II. LOWER AREA ANNUAL ENTITLEMENT

The Lower Area Annual Entitlement for the water year 2005-06 is based on the average annual rainfall which occurred in the 10-year period ending September 30, 2006 and the corresponding entitlement shown in Table A of the Judgment. Four precipitation stations are utilized to determine the annual precipitation for San Gabriel Valley. The four stations are located at San Dimas, Pomona, El Monte and Pasadena.

Rainfall

Rainfall during the water year 2005-06 at the four stations was as follows:

<u>Station Number</u>	<u>Location</u>	<u>Depth of Rainfall in Inches</u>
95	164 South Walnut Avenue, San Dimas	16.82
108D	3615 North Santa Anita Avenue, El Monte	16.50*
356C†	Spadra-Lanterman Hospital, Pomona	14.59*
610B	City Hall, Pasadena	<u>19.21*</u>
	Four Station Average Rainfall	16.78

* Data adjusted from recorded amounts to correct an incomplete record.

† Replaced Station 102D in 2000-01. See Thirty-Eighth Annual Report.

Table 3 presents the calculation of the 10-year average rainfall in the San Gabriel Valley for the water years 1996-97 through 2005-06.

TABLE 3
AVERAGE ANNUAL RAINFALL IN SAN GABRIEL VALLEY
1996-97 THROUGH 2005-06

Water Year	Annual Precipitation Rainfall
1996-97	17.5
1997-98	36.1
1998-99	8.6
1999-00	14.4
2000-01	15.5
2001-02	6.4
2002-03	19.4
2003-04	12.9
2004-05	45.3
2005-06	<u>16.8</u>
Total	192.9
10-Year Average	19.3

Lower Area Annual Entitlement

Based on the 10-Year average rainfall of 19.3 inches, the Lower Area Annual Entitlement for the water year 2005-06 is 103,300 acre-feet, determined from Table A of the Judgment.

CHAPTER III. USABLE WATER RECEIVED BY LOWER AREA

Presented in this Chapter is the determination of the quantity of Usable Water received by the Lower Area during the water year 2005-06. Also included is a discussion of the quality of water received by the Lower Area.

Surface Flow

The items to be included in Surface Flow through Whittier Narrows are set forth in Section III.A of Exhibit B of the Judgment. The measured flows and estimated flows are described below. The Judgment provides for adjustments to the measured flows where applicable. Some measurements during water year 2005-06 were found to be unreliable, questionable, or in error and appropriate adjustments were made by Watermaster. These adjustments are discussed later in this chapter.

Rio Hondo Above Mission Bridge, Station F64

In August of 1978, the flow recorder at this station was removed due to high maintenance costs and very poor control caused by a shifting sand bottom at the station. Also, the use of Whittier Narrows Reservoir for storage of storm waters for conservation purposes causes frequent backwater at the station during storm operations. After reinstallation of the gaging station in 1985, the County again removed the recorder at this station in 1995. The County Hydrographer schedules periodic current meter measurements at this station. Using these measurements and upstream measurements, a record of flow has been developed over the years that is considered to be more accurate than the recorder. This is due to the poor conditions of the channel section at the station and

backwater conditions from Whittier Narrows Dam and Whittier Narrows Water Reclamation Plant discharges.

During the water year 2005-06, a total of 9 current meter measurements were performed by the County. The Watermaster has determined that a synthesized flow at Station F64 should be used for the entire year. Using data provided by the County and by the USGS, the Watermaster synthesized flow at the station as being equal to the sum of the flow at Garvey Avenue (E326-R), Alhambra Wash (F81D-R), imported water releases through CenB-36, plus an estimate of the quantity of rising water. Watermaster determined when there was no precipitation and releases were made from Peck Road Spreading Grounds there were periods when the flow measured at Garvey Avenue was incorrect. During these periods of time, the Watermaster substituted the flow at Lower Azusa Road (F192B-R) for the flow at Garvey Avenue to synthesize the flow at F64. In addition, Watermaster noted, and County staff confirmed, the records from Alhambra Wash (F81D-R) reflected inaccurate data due to sediment accumulation in the stilling well. Watermaster adjusted the record for a portion of the year. The synthesized flow at Station F64 is utilized for the entire water year and it is considered that the record produced is reasonably accurate. This resulted in a total flow at Station F64 for the water year 2005-06 of 36,720 acre-feet.

Additional analyses balancing all inflow stations with the outflow stations and the amount of water spread indicated some inconsistencies during days of very high flow. In those cases, appropriate adjustments were made, which are described later under the heading "Adjustments to Surface Flow."

Mission Creek at San Gabriel Boulevard, Station F83

The recorder was removed from this station during water year 1977-78 because of construction work by the Los Angeles County Road Department and the designation of the station was changed from "F83-R" to "F83", a non-recording station. The channel has also been realigned making reestablishment of the station less reliable. Historically, the majority of the water carried in Mission Creek was rising water.

In the past, weekly visits to this station were made by a County hydrographer and if there was surface water flow, a measurement was made. Station F83 was not visited by a hydrographer during water year 2005-06. Watermaster staff observed no flow in Mission Creek. The total flow in Mission Creek for the water year 2005-06 was determined to be 0 acre-feet.

Rio Hondo By-Pass Channel (Zone I Ditch), Station F313B-R

The measured flow at Station F313B-R for the water year 2005-06 was recorded by the County to be 37,220 acre-feet.

Whittier Narrows Flood Channel, Station G44B-R (formerly F337-R)

Station F337-R was located on the Rosemead Boulevard Bridge. Construction work in 1978-79 removed a levee which directed flow past this station and made the rating curve at this station questionable. Poor communication existed between the channel and the stilling well. In addition, the station was subject to backwater from the Rio Hondo side of Whittier Narrows Reservoir. However, water entering the Flood Channel crosses over a stabilizer weir. The County in 1993 established a gaging station utilizing the stabilizer weir with a recorder and has designated the station G44B-R, Whittier Narrows Flood Channel. The Watermaster is utilizing records developed by the County and has verified them utilizing a weir formula and records of reservoir stage

obtained from the Corps of Engineers, operators of Whittier Narrows Reservoir. In general, these comparisons provided reasonably accurate data. For water year 2005-06, the mean daily discharge measurements at station G44B-R were consistent with the flow estimates using the weir flow calculations and, thus, confirm the method used. The flow through the Flood Channel for water year 2005-06 was determined to be 12,480 acre-feet.

Sycamore Canyon

The determination of runoff from Sycamore Canyon, which flows through Whittier Narrows, is based on a correlation with rainfall at Potrero Heights (Station 170F). Sycamore Canyon is located in the La Merced Hills northwesterly of Whittier Narrows and enters the Rio Hondo below Station F64, Rio Hondo above Mission Bridge. During the water year 2005-06, rainfall at Station 170F was 14.55 inches. Referring to Table 6 of Exhibit B of the Judgment, the runoff from Sycamore Canyon was determined to be 105 acre-feet.

San Gabriel River Below Parkway Bridge, Station F263C-R

The flow in the San Gabriel River below Parkway Bridge for the water year 2005-06 was recorded by the County to be 51,940 acre-feet. The Watermaster revised the flow to 50,610 acre-feet based on analysis of daily flow and considering storage behind the rubber dams on the San Gabriel River below Station F263C-R.

San Gabriel River at Florence Avenue, Station F262C-R

This recording station replaced F262B-R beginning with water year 1988-89. The former station was discontinued during the summer of 1988 because the County constructed a rubber dam in the channel. The recording gage is now located about one mile downstream at the beginning of the lined portion of the San Gabriel River. The County, with Watermaster concurrence, relocated this station to provide a more accurate

measurement of flow to the ocean.

Flow in San Gabriel River at Florence Avenue for the water year 2005-06 was recorded by the County to be 5,182 acre-feet.

Rio Hondo Spreading Grounds Intake (Headworks)

The County constructed a low level intake to the Rio Hondo East Side Spreading Grounds in 1987. This intake supplements the original higher level intake and allows water to be diverted into the spreading grounds when the radial gates are raised. The spreading grounds inflow data were historically used to verify other records of inflow and to make adjustments.

Metering of the new low level intake was to be provided by means of an acoustical meter. When the low level installation was made a number of years ago, the County specified an Accusonic Meter located in the 102-inch diameter pipe downstream from the undershot slide gate assembly. Because of turbulence and air entrainment, the meter did not work properly and was moved to the intake channel located between the Rio Hondo channel and the diversion structures. Metering of the low level intake has not yet been done successfully. There were periods of time during which the records of Spreading Grounds inflow did not exist or were not accurate. The County installed a Flodar measuring device in February 2006. However, the measuring device is inaccurate when flow in the pipe is less than three feet. The County intends to replace this device in 2007 with a Flodar measuring device with a full operating range for the 102-inch diameter pipe at a location downstream of the turbulence.

Several letters were sent to the County during water year 1994-95 which resulted in some facilitation of measures to improve accuracy of data at this station and other stations of concern to the Watermaster. For the low level intake, the project consisted of

the replacement of the control console in the headworks building with a new signal processor. The County installed a new control console, on loan from the manufacturer, in the middle of December 1995. The new console was tested for a period of several months through the storm period to determine if it will alleviate past operational problems with the system. Records for years following water year 1994-95 appear to be more consistent than for previous years. However, since water year 1997-98, the low level intake has operated inconsistently. When the low level intake meter is inoperative, the mean daily flow is estimated by County personnel using a rating table of the slide gate and forebay pool elevation. The Watermaster continues to evaluate records for the low level intake. Other intakes to the Spreading Grounds are equipped with Parshall flumes and recorders.

Reclaimed Water Delivered to Rio Hondo Below Station F64

Water from the Whittier Narrows Water Reclamation Plant can be delivered to the San Gabriel River, the Rio Hondo below Station F64, or the Rio Hondo Bypass Channel (Zone I Ditch). The total water production from this plant was 9,145 acre-feet during the water year 2005-06, of which 40 acre-feet was used by a commercial nursery near the plant site resulting in net release for groundwater recharge of 9,105 acre-feet. Of this quantity, 3,562 acre-feet was delivered directly to the Rio Hondo below Station F64 and must, therefore, be added as Surface Flow.

In addition, Reclaimed Water from the Whittier Narrows Plant, in the amount of 2,927 acre-feet, was delivered to the San Gabriel River and accounted for in the recorded flows at the Parkway Bridge Station, F263C-R.

As mentioned above, Reclaimed Water from the Whittier Narrows Plant can also be delivered to the Zone I Ditch. In 1984, the location of the gaging station on the Zone I Ditch was moved from upstream of the point of delivery to downstream of the point of

delivery. Thus, Reclaimed Water now delivered to the Zone I Ditch is included with the water measured at Station F313B-R. During the water year 2005-06, 2,616 acre-feet of Reclaimed Water was delivered to the Zone I Ditch.

Reclaimed Water Delivered to San Gabriel River Below Station F263C-R

The San Jose Creek Water Reclamation Plant is located near the intersection of San Gabriel River and San Jose Diversion Channel, as shown on Plate 1. Reclaimed Water from this plant is carried in an outfall pipeline which generally parallels the San Gabriel River to a point south of Florence Avenue, where the flow can be released to the lined channel of the San Gabriel River. At the San Gabriel River Spreading Grounds Headworks, there is a turnout from this outfall pipeline so that Reclaimed Water can be delivered to the San Gabriel River Spreading Grounds or the unlined portion of the San Gabriel River for ground water recharge. This outlet is located downstream of Station F263C-R and is equipped with a propeller meter.

During the water year 2005-06, no Reclaimed Water from the San Jose Creek Water Reclamation Plant was delivered via this outfall pipeline to the San Gabriel River Spreading Grounds Headworks for replenishment purposes.

The flow in the San Jose Creek outfall pipeline which is not diverted for replenishment use is delivered to the lined portion of the San Gabriel River and flows to the ocean. During the water year 2005-06, such flow amounted to approximately 55,000 acre-feet, and is not included as Surface Flow under the Judgment.

A second turnout for replenishment purposes from the San Jose Creek Water Reclamation Plant was first used in December 1986 to provide the option of releasing Reclaimed Water directly to the San Jose Diversion Channel. For the water year 2005-06 29,706 acre-feet of Reclaimed Water was released through the San Jose Creek Water

Reclamation Plant Stages I and II for replenishment by the Lower Area. San Jose Creek Water Reclamation Plant Reclaimed Water released through this second turnout may be diverted to the Rio Hondo via the Zone I Ditch or to the San Gabriel River. A third turnout for replenishment purposes from the San Jose Plant was installed with expansion of Stage III of the San Jose Creek Water Reclamation Plant. Effluent from Stage III can be delivered to the aforementioned outfall pipeline or delivered directly to the San Gabriel River at the Plant. Phase III construction was completed during the 1992-93 water year and this connection was first used on January 18, 1993. Water released to the San Gabriel River at this location totaled 1,456 acre-feet for the water year 2005-06. This flow will commingle with that delivered from Stages I and II delivered to the San Jose Wash and can be diverted to the Rio Hondo via the Zone I Ditch or to the San Gabriel River where it would be measured at Parkway Bridge. For the water year 2005-06, a total of 31,162 acre-feet of Reclaimed Water was released from the San Jose Creek Water Reclamation Plant for groundwater recharge. A part of this flow was subsequently lost to the ocean and was accounted for as described in the section "Unusable Surface Flow".

Adjustments to Surface Flow

The quantity of Surface Flow is, for the most part, based upon streamflow measurements made by the County. In essence, the method set forth in the Judgment is to measure the surface inflow to the Lower Area through Whittier Narrows and deduct that portion of surface flow which leaves the Montebello Forebay at its lower end. The difference in these measurements represents determination of the quantity of Surface Flow which infiltrates to the Montebello Forebay.

High runoff conditions occur during and following certain storms. Certain inconsistencies can result from the inflow minus outflow calculations. While the stream

gaging measurements may be within the accuracy of normal stream gaging measurements during periods of high flow, the amount of Usable Surface Flow is only a small portion of the total flow. Inaccuracies in the gaging of total flow will affect the determination of Usable Surface Flow. It also should be noted that storm runoff through Whittier Narrows has increased as a result of urbanization which tends to produce higher peak flows of shorter duration.

Accordingly, the Watermaster, after evaluating the available data, determined that for certain periods of time adjustments should be made in the quantities of Surface Flow as derived from the measurements. An alternative method of determining Surface Flow for the Rio Hondo was outlined in the Fifth Annual Watermaster Report. In this method, an adjustment is made by first determining the amount delivered to Rio Hondo Spreading Grounds and adding thereto the estimated amount of water infiltrated in the Rio Hondo portion of the Whittier Narrows Reservoir. This is compared to the measured inflow minus the outflow and a determination is made as to the most reliable quantities.

Changes in the method of determining Surface Flow can be made under the terms of the Judgment. Reference is made to Exhibit B of the Judgment, Article III, Section A entitled, "Surface Water Measurements and Calculations," which reads in part:

"In the event that any of the aforementioned gaging stations are inoperative for any reason and for any period of time the Watermaster shall estimate the quantity that would have been measured at the station had it been operative. The estimate shall be based on correlation to nearby operative measuring stations or on other reasonable engineering methods."

The Watermaster considers that stations are inoperative for the purposes of the Judgment when the measurements obtained are not of sufficient accuracy to produce reasonable results. For the water year 2005-06, it was decided to apply the alternative method during certain periods of time to the Rio Hondo side of Whittier Narrows.

Presented in Table 4 is an adjustment to Rio Hondo inflow. This table presents a summary of the calculations utilizing the alternative method. Analysis of the daily inflow and outflow data indicated that the alternative method should be applied during 36 days of the water year 2005-06. These days were October 17-18; December 31; January 1-3; February 17-19, 27-28; March 1, 3, 10, 11, 20, 21, 28-31; and April 1, 4-7, 11-16, 27-30. The unadjusted inflow to the Lower Area in the Rio Hondo as set forth in Table 4 was 44,994 acre-feet during those 36 days. The outflow to the ocean during the same 36 days (calculated on a daily basis from stream gaging measurements as provided in the Judgment) was 5,255 acre-feet. (This latter value is Unusable Surface Flow from the Upper Area.) In making the adjustment, the unusable outflow as measured at the Rio Hondo Headworks and compared to flow at Stewart and Gray Road was accepted.

The infiltration during the 36 days was calculated to be 29,260 acre-feet. This included the amount delivered to the spreading grounds and the water infiltrated in the Whittier Narrows Reservoir westerly of Rosemead Boulevard. In addition, the amount of water stored on the Rio Hondo side of the Reservoir increased by 1,153 acre-feet during those 36 days. The inflow is therefore adjusted by adding the quantity of infiltration (29,260 acre-feet) to the outflow (5,255 acre-feet) and adding the increase in storage (1,153 acre-feet) to determine the adjusted inflow in the amount of 35,668 acre-feet.

TABLE 4**LOWER AREA INFLOW AND OUTFLOW
ADJUSTMENT TO RIO HONDO INFLOW**

Item	:	Amounts in Acre-Feet For 36 Days ^(a) of the Water Year 2005-06
A. UNADJUSTED INFLOW		
Rio Hondo Above Mission Bridge, F64		27,230
Mission Creek at San Gabriel Boulevard, F83		0
Rio Hondo By-Pass Channel (Zone I Ditch)		5,232
Whittier Narrows Flood Channel		12,244
Sycamore Canyon		89
Ungaged Reclaimed Water (WNWRP)		199
Total Unadjusted Inflow		44,994
B. ADJUSTED INFLOW		
Infiltration		
Spreading grounds infiltration		27,237
Reservoir area infiltration		2,023
Total infiltration		29,260
Change in Reservoir Storage		+ 1,153
Outflow at Stewart and Gray Road		<u>5,255</u>
Total Adjusted Inflow		35,668
C. ADJUSTMENT		
Adjustment to Rio Hondo Inflow		<u>-9,326</u>

(a) Days adjusted were October 17-18; December 31; January 1-3; February 17-19, 27-28; March 1, 3, 10, 11, 20, 21, 28-31 and April 1, 4-7, 11-16, 27-30.

As shown on Table 4, the adjustment to the Rio Hondo inflow is minus -9,326 acre-feet. This adjustment relies on the spreading grounds inflow and estimated infiltration in Whittier Narrows Reservoir. These latter values provide a more accurate determination of Usable Water during high flows as opposed to taking the difference between inflows and outflows from stream gaging stations during periods of storm flows.

Summary of Surface Flow

A total of 131,371 acre-feet of surface water flowed through Whittier Narrows during the water year 2005-06. Table 5 shows the components and the total Surface Flow.

TABLE 5
SUMMARY OF SURFACE FLOW THROUGH WHITTIER NARROWS
FOR WATER YEAR 2005-06

	<u>Amount in</u> <u>Acre-Feet</u>
Rio Hondo above Mission Bridge, Station F64	36,720
Mission Creek at San Gabriel Boulevard, Station F83	0
Rio Hondo By-Pass Channel, Station F313B-R	37,220
Whittier Narrows Flood Channel	12,480
Sycamore Canyon	105
San Gabriel River below Parkway Bridge, Station F263C-R	50,610
Reclaimed Water from Whittier Narrows Plant Delivered to Rio Hondo below Station F64	3,562
Reclaimed Water from San Jose Plant Delivered to San Gabriel River below Station F263C-R	0
Less Adjustment to Rio Hondo Inflow (Table 4)	<u>-9,326</u>
Total Surface Flow	131,371

Subsurface Flow

The method utilized to determine Subsurface Flow through Whittier Narrows is set forth in Exhibit B of the Judgment. The data used for computing Subsurface Flow are the spring and fall ground water elevations in Whittier Narrows. The measurement well locations are shown on Plate 2.

Water levels in the Whittier Narrows had been declining prior to water year 2004-05 and several of the monitoring wells in southeastern section of the Whittier Narrows had become dry. In response, the Watermaster constructed three monitoring wells and modified one well. Locations for each of the wells are shown on Plate 2.

Well 2938T is located along the western bank of the San Gabriel River, north of San Gabriel River Parkway. Well 2938T was originally constructed to a depth of 25 feet. The Watermaster constructed a 1-inch PVC replacement well, designated Well SGRW 5, to a depth of 60 feet with perforations from 20 to 60 feet. A bentonite seal was provided to a depth of 15 feet. Well SGRW 5 is located approximately 25 feet to the north of well 2938T.

Well 2948Q is located along the eastern bank of the San Gabriel River, north of San Gabriel River Parkway. Well 2948Q was originally constructed to a depth of 28 feet. The Watermaster constructed a 1-inch PVC replacement well, designated Well SGRW 6, to a depth of 45 feet with perforations from 20 to 45 feet. A bentonite seal was provided to a depth of 15 feet. Well SGRW 6 is located approximately 25 feet north of Well 2948Q.

Well 2938Q is located on Sandoval Avenue, west of the San Gabriel River. Well 2938Q was originally constructed to a depth of 25 feet. The Watermaster constructed a 1-inch PVC replacement well, designated Well SGRW 7, to a depth of 60 feet with

perforations from 25 to 60 feet. A bentonite seal was provided to a depth of 20 feet. Well SGRW 7 is located approximately 25 feet east of Well 2938Q.

Well 2937F is located along Siphon Road, approximately 850 feet east of Durfee Road, in the nature preserve behind the Whittier Narrows Dam. Well 2937F was originally constructed to a depth of 60 feet and a 6-inch diameter. A partial collapse of the casing has occurred. The Watermaster modified this well by placement of a 2-inch PVC casing inside the original casing. The envelope was filled with sand up to two feet of depth. A two-foot bentonite seal was provided. The new screened interval is from 15 to 30 feet. A 2-foot bentonite seal was provided.

The Subsurface Flow for any year is the average of the six spring and fall computations of Subsurface Flow for the three years ending with the year of calculation. Shown in the following tabulation is the result of the calculation of Subsurface Flow for the water year 2005-06 which amounted to 24,300 acre-feet.

Time	Subsurface Flow in Acre-Feet
Spring 2004	23,000
Fall 2004	30,100
Spring 2005	18,100
Fall 2005	20,700
Spring 2006	24,900
Fall 2006	<u>28,900</u>
Subsurface Flow 2005-06	24,300

Export to Lower Area

The Watermaster is required to determine the amount of water which is pumped from groundwater or diverted from surface streams in the Upper Area and transported in

conduits through Whittier Narrows.

During the water year 2005-06, there were four entities which transported water by pipeline through Whittier Narrows. All of the water exported through the Narrows was groundwater produced in the San Gabriel Valley. The annual export for each of the four exporters is shown below:

Exporter	Acre-Feet
California Domestic Water Company	19,943
San Gabriel Valley Water Company	3,022
Suburban Water Systems	7,982
City of Whittier	<u>7,490</u>
Total	38,437

The Judgment provides that the maximum annual credit for export in the determination of Usable Water shall not exceed 23,395 acre-feet.

Lower Area Replenishment Water

The Lower Area purchases imported replenishment water from The Metropolitan Water District of Southern California. This imported water may be delivered at four Metropolitan connections: (1) Alhambra Wash (CenB-36); (2) San Gabriel River below Ramona Boulevard (CenB-37); (3) Foothill Feeder at San Dimas Wash (CenB-48); and (4) Upper Feeder at Thompson Creek (CenB-28). All connections are metered and delivered amounts are recorded by The Metropolitan Water District. These amounts are verified by personnel of the County.

During water year 2005-06 the total amount of imported water purchased from Metropolitan for replenishment was 33,229 acre-feet all of which was on behalf of the Lower Area.

MWD Connection	Imported Water (Acre-Feet)
Alhambra Wash (CenB-36)	0
San Gabriel River: Ramona Blvd. (CenB-37)	0
San Dimas Wash (CenB-48)	6,522
Thompson Creek (CenB-28)	<u>26,707</u>
Total	33,229

Provision is made in the Judgment for the deduction of evaporation losses upstream of Whittier Narrows occurring during conveyance of Lower Area Replenishment Water through San Gabriel Valley to Whittier Narrows. The total calculated amount of evaporation during the water year 2005-06 was 354 acre-feet.

The Main San Gabriel Basin Watermaster, the Environmental Protection Agency and Water Replenishment District of Southern California signed an agreement for the water production associated with the WNOU Project. There was no discharge to the stream channels from the WNOU Project for the water year 2005-06 as all water was delivered to Legg Lake.

Analysis of daily flows indicated that there was no imported water loss to the ocean for water year 2005-06. After losses, the net amount of Lower Area Replenishment Water amounted to 32,875 acre-feet.

Reclaimed Water

Reclaimed Water used for replenishment of the Montebello Forebay came from three separate plants, each of which is operated by the County Sanitation Districts.

Whittier Narrows Water Reclamation Plant

The total amount of Reclaimed Water produced at the Whittier Narrows Water Reclamation Plant during the water year 2005-06, and delivered to stream channels, was

9,105 acre-feet. During water year 2005-06, Whittier Narrows effluent was bypassed during storm operations. The amount of water bypassed that was included as Surface Outflow totaled 237 acre-feet for water year 2005-06. Therefore, a total of 8,868 acre-feet of Reclaimed Water from the Whittier Narrows Water Reclamation Plant was purchased by the Water Replenishment District of Southern California and spread in the Montebello Forebay.

Pomona Water Reclamation Plant

County Sanitation District No. 21 owns and operates a water reclamation plant near the City of Pomona. A portion of the reclaimed water is sold for industrial, agricultural, landscaping and other uses. During the water year 2005-06 a substantial quantity of Reclaimed Water from this plant reached Whittier Narrows. The plant facilities, discharge of effluent from the plant, and the method of determining the amount of discharge generated within the San Gabriel River system and reaching Whittier Narrows were described in the Fifth Annual Watermaster Report. Reclaimed Water is defined in the Judgment as water reclaimed from sewage generated in the watershed of the San Gabriel River System above Whittier Narrows. The area served by the Pomona Plant includes areas inside and outside of the San Gabriel River System. A study was conducted in 2004 to review the factors utilized in apportioning Pomona Plant effluent generated in the San Gabriel River System. As a result of the study, it was concluded that 70 percent of the effluent of the Pomona Plant originates from sewage generated within the San Gabriel River System. This reevaluation by the Watermaster staff is a decrease from the 74 percent concluded by a similar study conducted in 1999. This apportionment will be reviewed periodically in the future.

The total production at the Pomona Water Reclamation Plant during the water year 2005-06 was 11,595 acre-feet. The majority of the effluent was delivered to the City of Pomona for resale. The undelivered portion, amounting to 3,110 acre-feet, was delivered to San Jose Creek. It was determined that 190 acre-feet was wasted to the ocean, 843 acre-feet percolated in the San Gabriel Valley, and 2,077 acre-feet percolated in the Montebello Forebay. The portion of this Reclaimed Water which was generated within the watershed of the San Gabriel River System was calculated to be 1,454 acre-feet.

San Jose Creek Water Reclamation Plant

The Water Replenishment District of Southern California purchases Reclaimed Water from the San Jose Creek Water Reclamation Plant. During the water year 2005-06, 31,162 acre-feet of Reclaimed Water from the San Jose Creek Water Reclamation Plant was delivered to the Lower Area for replenishment. Reclaimed water was bypassed for several months during the water year 2005-06. The amount of water bypassed that was included as surface outflow during water year 2005-06 totaled 982 acre-feet. Therefore, a total of 30,180 acre-feet of such Reclaimed Water was spread in the Montebello Forebay. Total plant effluent for the water year 2005-06 was about 92,000 acre-feet.

Summary of Reclaimed Water

The total amount of Reclaimed Water which should be deducted from the inflow is 40,502 acre-feet for the water year 2005-06. This is comprised of 8,868 acre-feet from the Whittier Narrows Water Reclamation Plant, 1,454 acre-feet from the Pomona Water Reclamation Plant which originated within the San Gabriel River watershed, and 30,180 acre-feet from the San Jose Creek Water Reclamation Plant.

Make-up Water by Surface Flow Delivery

During water year 2005-06, the Upper Area did not supply any Make-Up Water by surface flow delivery or otherwise since there was no Make-up Water requirement to be delivered for that year.

Recirculation of Measured Water

There was no recirculation of measured water as defined in Paragraph 3(1) (6) of the Judgment during the water year 2005-06.

Unusable Surface Flow

The water from the San Gabriel Valley which leaves Montebello Forebay as surface flow is called Unusable Surface Flow and is determined in accordance with Exhibit B of the Judgment. Surface outflow from the Montebello Forebay is accounted for in the Rio Hondo at Stewart and Gray Road, Station F45B-R, and in the San Gabriel River at Florence Avenue, Station F262C-R. This surface outflow may be comprised of water from the San Gabriel Valley and local storm water which enters the channels downstream of Whittier Narrows.

As determined by the Watermaster, measured surface outflow from the Montebello Forebay in the Rio Hondo at Station F45B-R was 7,006 acre-feet. Records were determined to be inaccurate on days of storm flow and the record was adjusted by using County records of flow past the Rio Hondo Headworks radial gates. The adjusted outflow is 12,280 acre-feet. This included water from the San Gabriel Valley, Local Storm Inflow originating downstream of Whittier Narrows and in some cases Lower Area replenishment water. The Local Storm Outflow on days when the radial gates at the Rio Hondo Headworks were open was estimated by correlating the drainage areas of the

unmeasured storm drains with the Montebello Storm Drain, which is equipped with a stream flow recorder. By analysis of flows on days when the radial gates were open, it was possible to segregate the flow at Stewart and Gray Road into Local Storm Outflow, Unusable Surface Flow and replenishment water. The total loss to the ocean on such days was determined to be 10,338 acre-feet. It was determined that the Local Storm Outflow was 5,075 acre-feet and the Unusable Surface Flow in the Rio Hondo was 5,263 acre-feet. Unusable Surface Flow includes 428 acre-feet of Reclaimed Water. Local Inflow for water year 2005-06 was calculated to be 13,280 acre-feet.

The total flow of the San Gabriel River at Florence Ave., Station F262C-R was measured to be 5,182 acre-feet. This flow consisted of Local Storm Inflow through storm drains located in the Montebello Forebay and surface inflow from the San Gabriel Valley. Most of the storm water in the San Gabriel River entering the Whittier Narrows Reservoir in excess of the spreading capacity in the San Gabriel River below Whittier Narrows Dam was conveyed by the Flood Channel to the Rio Hondo. The Local Storm Inflow was calculated to be 4,524 acre-feet based on correlation with the Montebello Storm Drain. The Local Storm Outflow on the San Gabriel River was determined to be 2,874 acre-feet. Analyses of daily flows indicated a total Unusable Surface Flow from the Montebello Forebay in the San Gabriel River of 2,308 acre-feet during the water year 2005-06. Unusable Surface Flow included 981 acre-feet of Reclaimed Water which was previously deducted from Lower Area Replenishment Water.

The total Unusable Surface Flow passing through the Montebello Forebay in the Rio Hondo and San Gabriel River in the water year 2005-06 was 7,571 acre-feet.

Determination of Usable Water

Usable Water under the terms of the Judgment is defined as the sum of Surface

Flow, Subsurface Flow and Credited Export to Lower Area less the sum of Lower Area Replenishment Water, Reclaimed Water, Make-up Water by Surface Flow Delivery and Unusable Surface Flow. Table 6 presents the determination of Usable Water for the water year 2005-06.

TABLE 6**USABLE WATER FOR WATER YEAR 2005-06**

	<u>Amount in Acre-Feet</u>	
Surface Flow	131,371	
Subsurface Flow	24,300	
Credit for Export to Lower Area	<u>23,395</u>	
Subtotal		179,066
Less:		
Lower Area Replenishment Water	32,875	
Reclaimed Water	40,502	
Make-Up Water by Surface Flow Delivery	0	
Recirculation of Measured Water	0	
Unusable Surface Flow	7,571	
Subtotal		80,948
Usable Water		98,118

Quality of Water

The Judgment (Exhibit B, Section IV.E) provides that the Watermaster gather readily available data from public and private agencies relating to the quality of water. During the water year, quality data were obtained from the County Sanitation Districts, Los Angeles County Department of Public Works and the Metropolitan Water District of Southern California. Ground water quality data were also obtained from programs of the Main San Gabriel Basin Watermaster, Central Basin Municipal Water District, and Water Replenishment District of Southern California. In the last few years increasing concern has developed over the trace constituents found in drinking water. Table 7 includes these constituents for illustrating both the quality of different sources of water supply and the increasing number of regulated constituents. Shown in Figures 3, 4 and 5 are graphical trends of salinity, hardness and nitrogen of the sources of imported and Reclaimed Water for recharge in the San Gabriel River System.

TABLE 7

**WATER QUALITY ANALYSES REPRESENTATIVE OF SOURCES
OF WATER PASSING THROUGH WHITTIER NARROWS
WATER YEAR 2005-06 (a)**

CATEGORY	DRINKING WATER STANDARDS	IMPORTED WATER		RECLAIMED WATER				RUNOFF WATER	
		UNTREATED STATE PROJECT WATER (b)	UNTREATED COLORADO RIVER WATER (c)	WHITTIER NARROWS PLANT	SAN JOSE CREEK PLANT (E)	SAN JOSE CREEK PLANT STAGE III (W)	POMONA PLANT	STORM FLOW (d)	SUBSURFACE FLOW (e)
DATE		April-05	April-05	April-06	April-06	April-06	April-06	December-05	December-05
pH	6.5-8.5	7.97	8.09	7.4	7.2	7.4	7.6	7.48	8.5
EC x 106 (umho/cm)		309	1066	NA	NA	NA	NA	379	680
CATIONS									
Calcium		16	77	45.9	57.2	52	62	NA	62
Magnesium		8	31	13.6	19.4	13.4	13.5	NA	10
Sodium		31	101	121	151	104	102	NA	52
Potassium		1.8	5.1	12.0	14.6	12.9	13.1	NA	3.5
ANIONS									
Carbonate		0	0	0	0	0	0	0	3.7
Bicarbonate		66	160	147	161	152	171	84.5	180
Sulfate	250	34	273	91.9	103	66.8	71.6	53.2	85
Chloride	250	37	97	91.3	160	96.3	103	37.5	59
Nitrate as NO3	45	2.8	1						
Fluoride	1.8	0.07	0.34	0.55	0.31	0.68	0.28	0.18	0.24
Total Dissolved Solids	500-1500	173	674	531	615	488	495	222	412
Total Hardness as CaCO3		75	318	175	205	196	195	112.5	196
Boron		0.15	0.14	0.36	0.43	0.48	0.40	NA	0.14
INORGANIC TRACE CONSTITUENTS									
Arsenic	0.01	0.0013	0.0026	0.002	ND	ND	0.001	ND	0.003
Barium	1	0.028	0.176	0.024	0.041	0.021	0.029	0.0123	0.097
Cadmium	0.005	0.0018	ND	ND	0.001	ND	0.001	ND	ND
Chromium, Total	0.05	ND	ND	0.001	ND	ND	0.001	ND	0.004
Lead		0.001	ND	0.0004	ND	0.0011	0.0015	ND	ND
Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
Perchlorate	0.006	NA	NA	NA	NA	NA	NA	NA	ND
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.1	ND	ND	ND	ND	ND	ND	ND	ND
NUTRIENTS as N									
Ammonia				0.5	1.2	0.9	0.9	0.21	0.06
Nitrate				6.3	2.3	6.2	5.9	1.24	1.6
Nitrite				ND	0.17	ND	0.07	0.21	ND
Organic Nitrogen				2.0	1.4	0.9	1.6		ND

(a) All constituents in ug/l unless noted. ND = None Detected. NA = Not Analyzed.

(b) Sampled at Lake Silverwood.

(c) Sampled at Lake Mathews.

(d) At San Gabriel River Parkway.

(e) From Well 2947LM.

TABLE 7 (CONT'D)

**WATER QUALITY ANALYSES REPRESENTATIVE OF SOURCES
OF WATER PASSING THROUGH WHITTIER NARROWS
WATER YEAR 2005-06 (a)**

CATEGORY	DRINKING WATER STANDARDS	IMPORTED WATER		RECLAIMED WATER				RUNOFF WATER	
		UNTREATED STATE PROJECT WATER (b)	UNTREATED COLORADO RIVER WATER (c)	WHITTIER NARROWS PLANT	SAN JOSE CREEK PLANT (E)	SAN JOSE CREEK PLANT STAGE III (W)	POMONA PLANT	STORM FLOW (d)	SUBSURFACE FLOW (e)
		March-05	March-05	April-06	April-06	April-06	April-06	December-05	December-05
PURGEABLE ORGANICS									
Methylene Chloride	5	ND	ND	ND	11.0	ND	ND	NA	ND
Chloroform	80 (f)	NA	NA	7	6	4	4	NA	ND
Bromodichloromethane	80 (f)	NA	NA	1	3	0.6	1	NA	ND
Dibromochloromethane	80 (f)	NA	NA	ND	0.5	ND	ND	NA	ND
Bromoform	80 (f)	NA	NA	ND	ND	ND	ND	NA	ND
Carbon Tetrachloride	0.5	ND	ND	ND	ND	ND	ND	NA	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	NA	ND
1,2-Dichloroethane	0.5	ND	ND	ND	ND	ND	ND	NA	ND
1,1,1-Trichloroethane	200	ND	ND	ND	ND	ND	ND	NA	ND
1,1,2-Trichloroethane	5	ND	ND	ND	ND	ND	ND	NA	ND
1,1-Dichloroethylene	6	ND	ND	ND	ND	ND	ND	NA	ND
Trichloroethylene	5	ND	ND	ND	ND	ND	ND	NA	ND
Tetrachloroethylene	5	ND	ND	ND	ND	0.7	ND	NA	1.4
Methyl Tertiary-Butyl Ether	13	ND	ND	NA	NA	NA	NA	ND	ND
Benzene	1	ND	ND	ND	ND	ND	ND	NA	ND
Toluene	100	ND	ND	ND	ND	ND	ND	NA	ND
Chlorobenzene	30	ND	ND	ND	ND	ND	ND	NA	ND
O-Dichlorobenzene	130 (g)	ND	ND	ND	ND	ND	ND	ND	ND
M-Dichlorobenzene	130 (g)	ND	ND	ND	ND	ND	ND	ND	ND
P-Dichlorobenzene	5	ND	ND	ND	ND	0.5	ND	ND	ND
Cis-1,2-Dichloroethylene	6	ND	ND	ND	ND	ND	ND	NA	ND
Trans-1,2-Dichloroethylene	10	ND	ND	ND	ND	ND	ND	NA	ND
Bromomethane		ND	ND	ND	ND	ND	ND	NA	ND
Chloroethane		ND	ND	ND	ND	ND	ND	NA	ND
2-Chloroethylvinylether		NA	NA	ND	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND	ND	NA	ND
1,2-Dichloropropane	5	ND	ND	ND	ND	ND	ND	NA	ND
Cis-1,3-Dichloropropene	0.5(h)	ND	ND	ND	ND	ND	ND	NA	ND
Trans-1,3-Dichloropropene	0.5(h)	ND	ND	ND	ND	ND	ND	NA	ND
1,1,2,2-Tetrachloroethane	1	ND	ND	ND	ND	ND	ND	NA	ND
Vinyl Chloride	0.5	ND	ND	ND	ND	ND	ND	NA	ND
NON-PURGEABLE ORGANICS									
Bis(2-ethylhexyl)phthalate	4	NA	NA	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol		NA	NA	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol		NA	NA	ND	ND	ND	ND	NA	ND
2,3,4-Trichlorophenol		NA	NA	ND	ND	ND	ND	NA	ND
2,3,6-Trichlorophenol		NA	NA	ND	ND	ND	ND	NA	ND
3,4,5-Trichlorophenol		NA	NA	ND	ND	ND	ND	NA	ND
Pentachlorophenol	1	NA	NA	ND	ND	ND	ND	ND	ND
Phenanthrene		NA	NA	ND	ND	ND	ND	ND	ND
Fluoranthene		NA	NA	ND	ND	ND	ND	ND	ND
Atrazine	1	NA	NA	ND	ND	ND	ND	ND	ND
Simazine	4	NA	NA	ND	ND	ND	ND	ND	0.06
Phenylacetic Acid		NA	NA	ND	ND	ND	ND	NA	ND
Phenol	1	NA	NA	ND	ND	ND	ND	ND	ND
CHLORINATED HYDROCARBONS									
DDT		NA	NA	ND	ND	ND	ND	ND	ND
BHC	0.3-0.7	NA	NA	ND	ND	ND	ND	ND	ND
Lindane	0.2	NA	NA	ND	ND	ND	ND	ND	ND
Heptachlor	0.01	NA	NA	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	0.01	NA	NA	ND	ND	ND	ND	ND	ND
Aldrin	0.05	NA	NA	ND	ND	ND	ND	ND	ND
Dieldrin	0.05	NA	NA	ND	ND	ND	ND	ND	ND

(a) All constituents in ug/l unless noted. ND = None Detected. NA = Not Analyzed.

(b) Sampled at Lake Silverwood.

(c) Sampled at Lake Mathews.

(d) At San Gabriel River Parkway.

(e) From Well 2947LM.

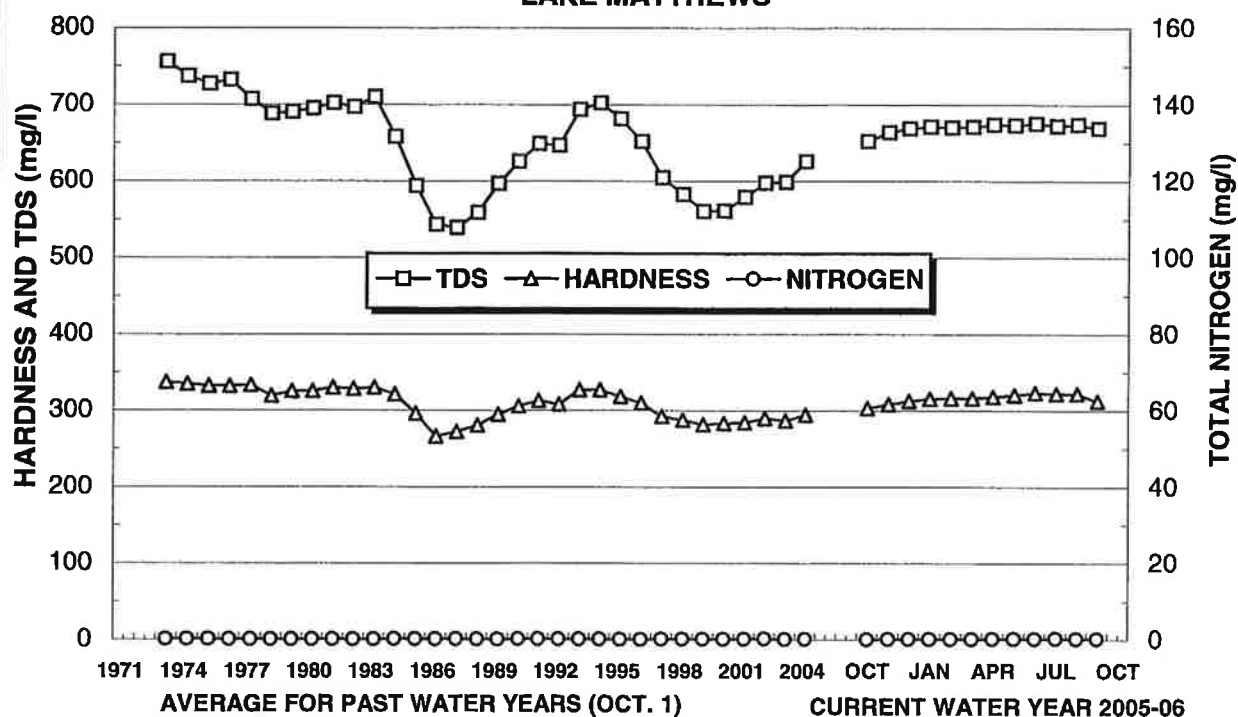
(f) Total Trihalomethanes is not to exceed 80 ug/l.

(g) Action Level. Sum not to exceed 130.0 ug/l.

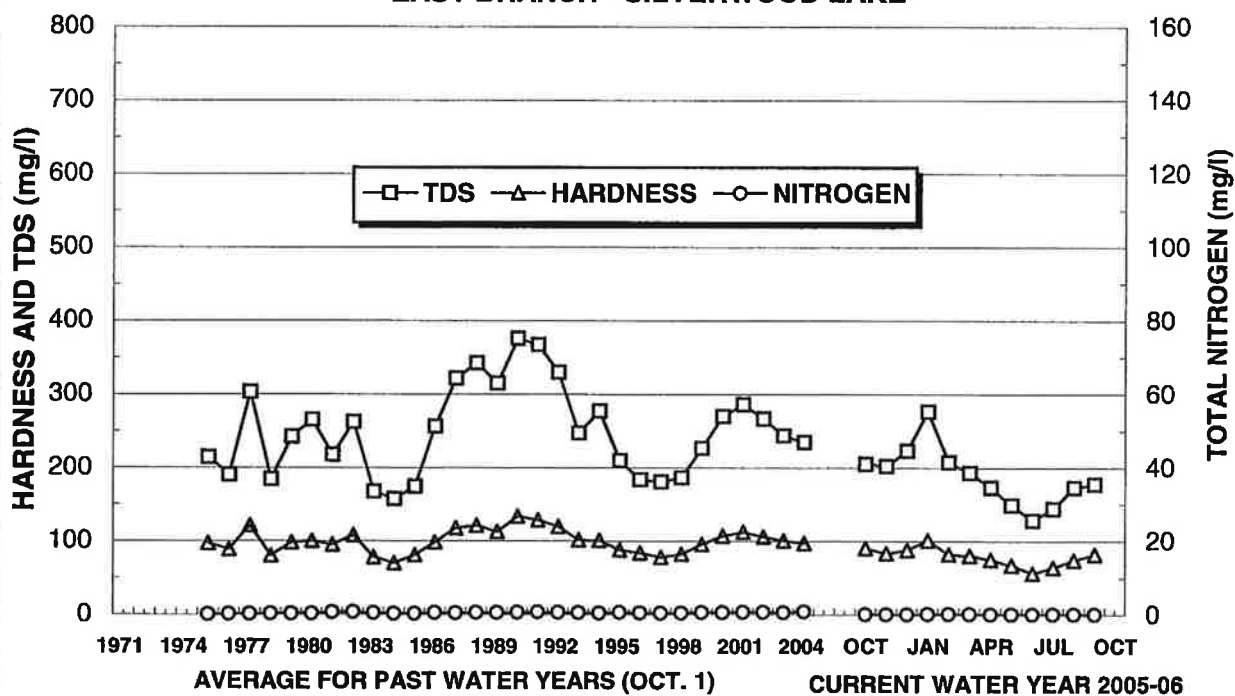
(h) Sum not to exceed 0.5 ug/l.

FIGURE 1

UNTREATED COLORADO RIVER WATER LAKE MATTHEWS



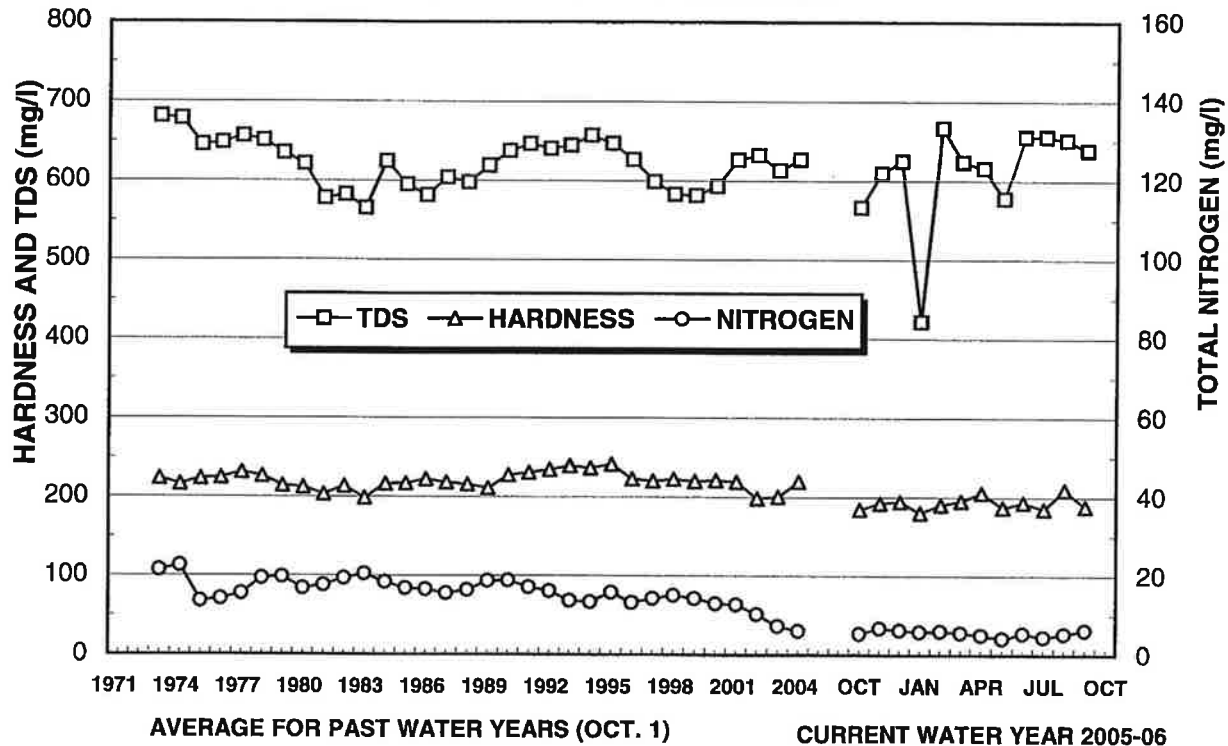
STATE WATER PROJECT EAST BRANCH - SILVERWOOD LAKE



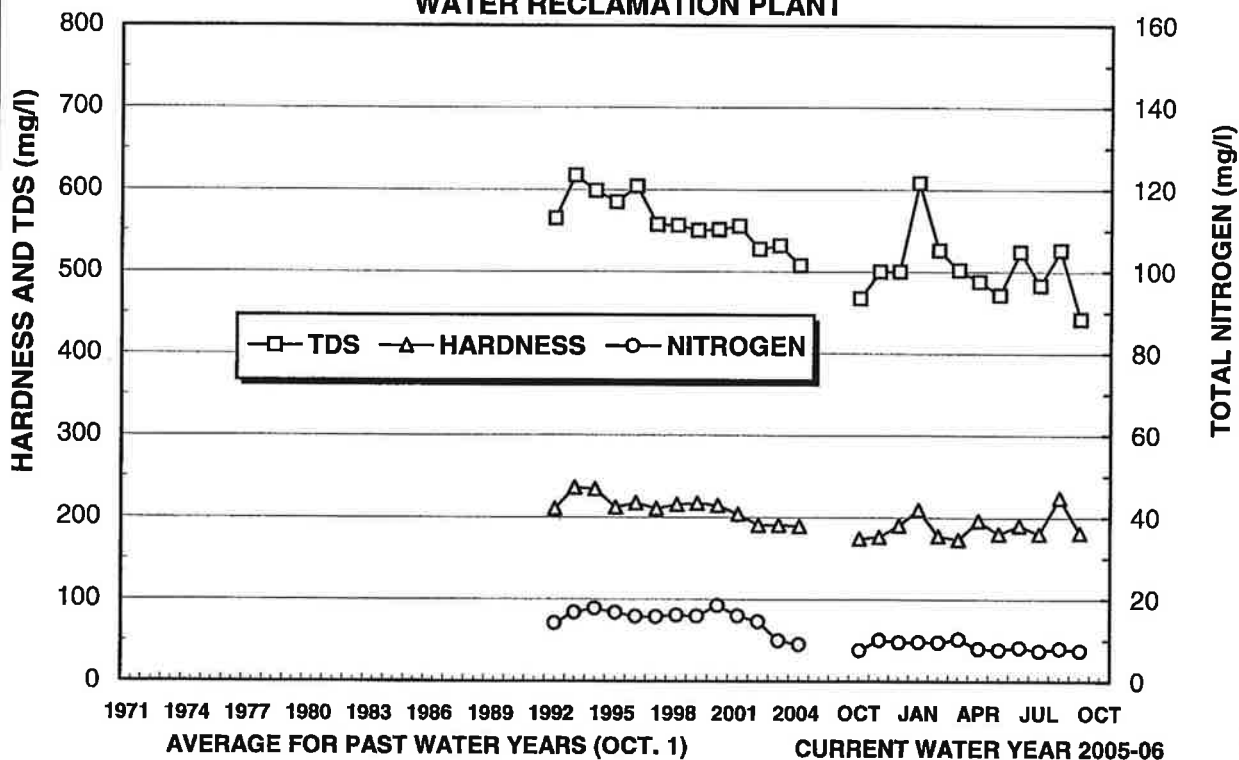
SELECTED WATER QUALITY PARAMETERS OF IMPORTED WATER

FIGURE 2

SAN JOSE CREEK WATER RECLAMATION PLANT

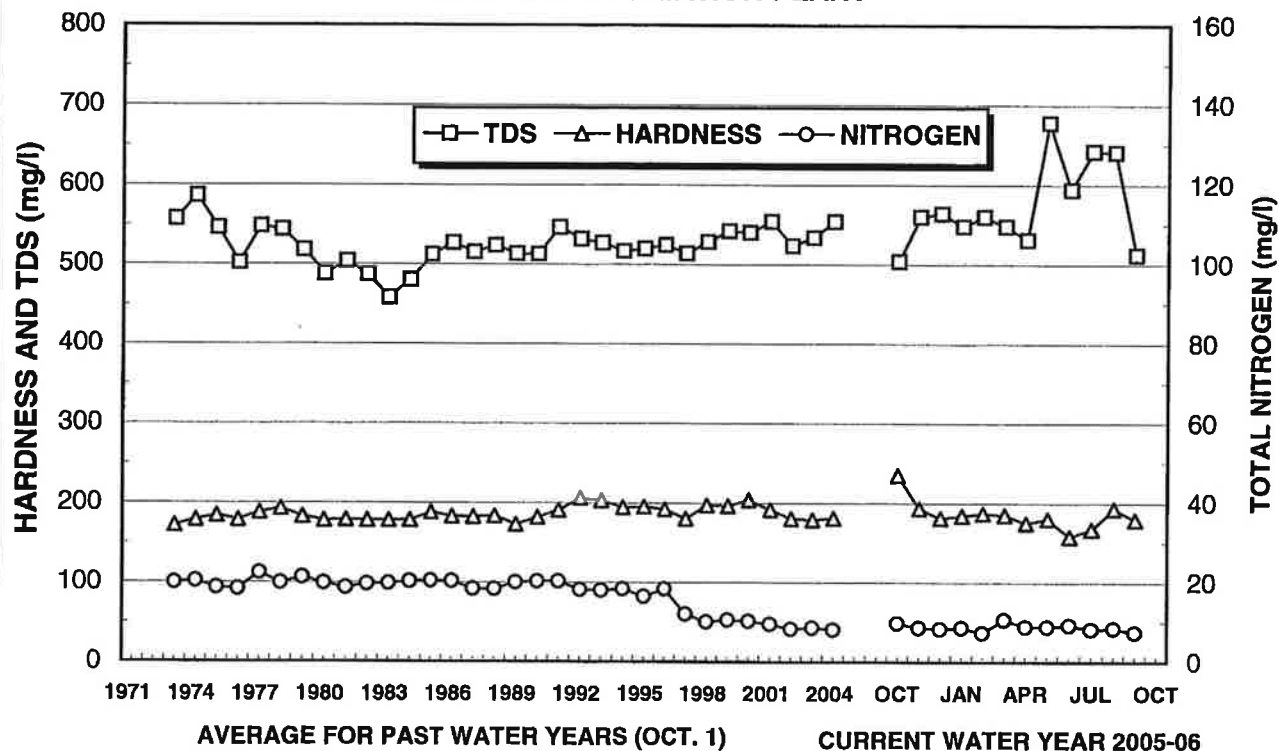


SAN JOSE CREEK III WATER RECLAMATION PLANT

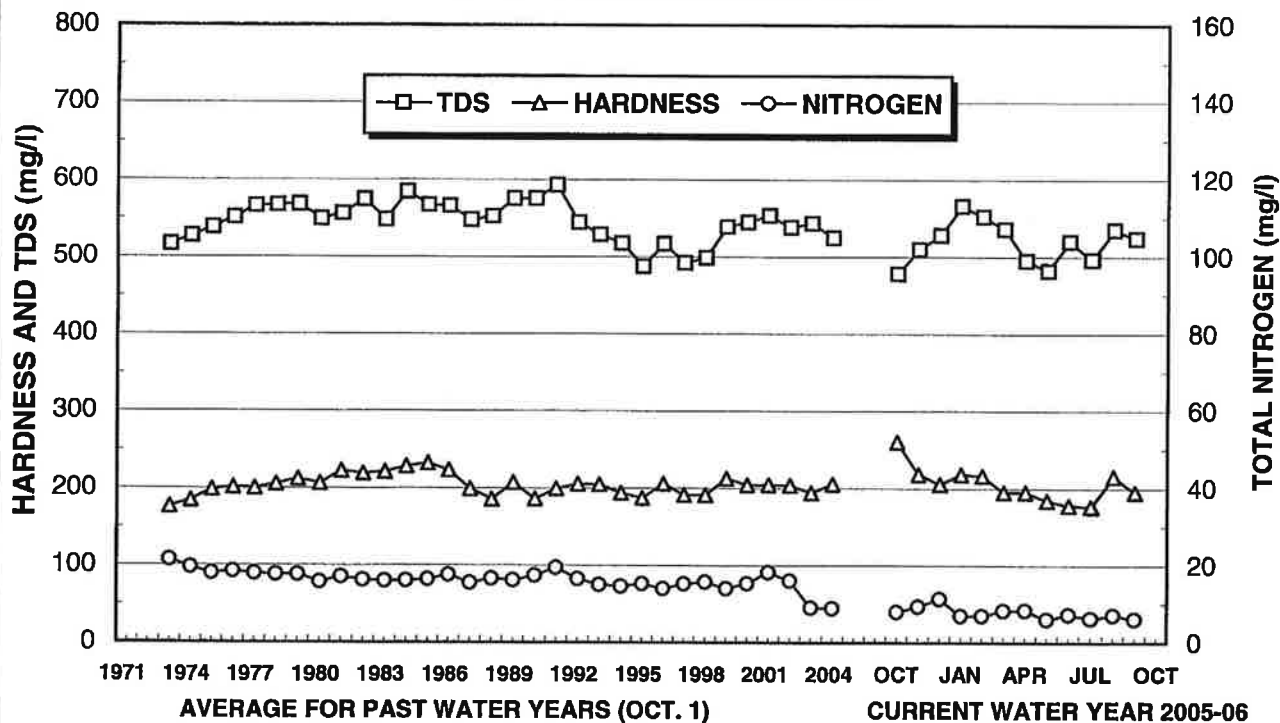


SELECTED WATER QUALITY PARAMETERS OF RECLAIMED WATER

WHITTIER NARROWS WATER RECLAMATION PLANT



POMONA WATER RECLAMATION PLANT



SELECTED WATER QUALITY PARAMETERS OF RECLAIMED WATER

CHAPTER IV. ANNUAL ACCOUNTING AND MAKE-UP WATER REQUIREMENTS

Under the terms of the Judgment, the Watermaster is required to annually determine the Accrued Debit or Credit of the Upper Area and the obligations, if any, of the Upper Area to deliver Make-up Water during the ensuing water year.

Delivery of Make-up Water During 2005-06

Because of the existence of an Accrued Credit at the end of 2004-05, the Upper Area made no Make-up Water delivery to the Lower Area during the water year 2005-06.

Accrued Credit as of September 30, 2006

The Lower Area Annual Entitlement as heretofore determined for the water year 2005-06 was 103,300 acre-feet. The Usable Water received was 98,118 acre-feet, which resulted in a debit to the Upper Area for the water year of 5,182 acre-feet. The Upper Area had an Accrued Credit as of September 30, 2005, of 127,599 acre-feet. Thus the total Accrued Credit of the Upper Area as of September 30, 2006 is 122,417 acre-feet.

Requirement for Make-up Water Delivery in 2006-07

Because of the existence of an Accrued Credit on September 30, 2006, the Upper Area is under no obligation to deliver Make-up Water to the Lower Area during water year 2006-07.

Summary

Table 8 presents a summary of the findings of the Watermaster for the water year 2005-06.

TABLE 8
SUMMARY OF FINDINGS FOR WATER YEAR 2005-06

	:	Quantities In Acre-Feet
1. Rainfall 2005-06, 16.8 inches		
2. Ten-year average rainfall, 19.3 inches		
3. Lower Area Annual Entitlement		103,300
4. Surface flow through Whittier Narrows		131,371
5. Subsurface Flow through Whittier Narrows		24,300
6. Credited export through Whittier Narrows		23,395
7. Total Flow through Whittier Narrows		179,066
8. Lower Area Replenishment Water		32,875
9. Reclaimed Water		40,502
10. Make-up Water (Surface Flow Delivery)		0
11. Recirculation of Measured Water		0
12. Unusable Surface Flow		7,571
13. Usable Water Received by Lower Area		98,118
14. Debit for Water Year 2005-06		5,182
15. Accrued Credit of Upper Area as of September 30, 2005		127,599
16. Amount of Make-up Water delivered during Water Year 2005-06		
a. Payment for Reclaimed Water		0
b. Surface Flow Delivery		0
Total		0
17. Adjusted Accrued Credit of Upper Area as of September 30, 2005		127,599
18. Accrued Credit of Upper Area as of September 30, 2006		122,417
19. Required Make-up Water to be delivered during Water Year 2006-07		0

CHAPTER V. LONG-TERM ACCOUNTING

Long-term Accounting is required by paragraph 5(h) of the Judgment. The first Long-term Accounting period under the Judgment included the 16 water years from 1963-64 through 1978-79. The second Long-term Accounting period included the 15 water years 1979-80 through 1993-94. The Third Long-term Accounting Period started with the water year 1994-95. The Long-term Accounting periods are discussed in this Chapter.

The Watermaster is required from time to time, but not sooner than 15 years nor more than 25 years after September 30, 1963 and after the close of each Long-term Accounting period, thereafter, to make a Long-term Accounting of the aggregate amount of Usable Water and Make-up Water received by the Lower Area. A Long-term Accounting is to be made sooner than 25 years if the average annual rainfall for a period of 15 or more years is at least 18 inches but not more than 19 inches.

The quantity of Usable Water and Make-up Water received during a Long-term Accounting period is compared to a quantity based upon the annual entitlement (98,415 acre-feet) multiplied by the number of years in the period and then adjusted by the ratio of the average annual rainfall for that period to the long-term average annual rainfall (18.52 inches). The difference in the amount of water received and the total annual entitlements is carried forward as either a credit or debit of the Upper Area.

First Long-term Accounting Period

As reported in the Sixteenth Annual Report, the First Long-term Accounting under the Judgment occurred as of September 30, 1979 for the period of 16 water years 1963-64 through 1978-79. The rainfall for the period averaged 18.16 inches resulting in a total entitlement of 1,544,031 acre-feet for the 16-year period. The amount of Usable Water and Make-up Water received was 1,376,090 acre-feet resulting in a Long-term Accounting Debit of 167,941 acre-feet.

Make-up Water Deliveries

The Judgment provides that the debit under Long-term Accounting be made up over a three-year period. Representatives of the Upper Area and Lower Area agreed that Make-up Water for the first Long-term Accounting Period could be delivered over a five-year period, requiring not less than one-fifth be delivered each year. Use of annual credit for Reclaimed Water, however, was limited to the first three years of the repayment period.

During the five years 1979-80 through 1983-84, the Upper Area delivered 167,941 acre-feet of Make-up Water to the Lower Area to satisfy the First Long-term Accounting. Thus, the Make-up Water delivery for the First Long-term Accounting Period was fully satisfied. A detailed description of the deliveries is contained in the Twenty-Second Annual Report.

Second Long-term Accounting Period

Table 9 is a summary of operations under the Judgment showing Lower Area Annual Entitlement, Usable Water and Make-up Water received by the Lower Area and the Accrued Debit or Credit of Upper Area for each year of operation during the Second Long-term Accounting period from 1979-80 through 1993-94.

As previously mentioned, Long-term Accounting is to be made sooner than the 25th year if the average annual rainfall for a period of 15 or more years is at least 18 inches but not more than 19 inches. Shown in Table 10 are the data used for the Second Long-term Accounting period. As shown on Table 10, the annual rainfall for the first fifteen years of operation under the Second Long-term Accounting period averaged 18.89 inches. Because at least 15 years elapsed since the First Long-term Accounting Period and because the average annual rainfall was between 18 and 19 inches, the Second Long-term Accounting was made. The rainfall for the period averaged 18.89 inches resulting in a long-term entitlement of 1,505,718 acre-feet. The amount of Usable Water received by the Lower Area was 1,631,156 acre-feet resulting in a credit to the Upper Area of 125,438 acre-feet to be carried into the Third Long-term Accounting Period.

TABLE 9

**SUMMARY OF ANNUAL OPERATIONS
UNDER JUDGMENT DURING
SECOND LONG-TERM ACCOUNTING PERIOD**

(In Acre-Feet)

Water Year	Entitlement	Water Received by Lower Area			Accrued Credit (+) or Debit (-)
		Usable	Make-Up^(a)	Total	
1979-80	107,600	137,175	0	137,175	+29,575
1980-81	105,700	85,917	0	85,917	+ 9,792
1981-82	111,900	94,823	0	94,823	- 7,285
1982-83	122,200	185,014	7,285	192,299	+62,814
1983-84	118,600	99,725	0	99,725	+43,939
1984-85	118,100	90,965	0	90,965	+16,804
1985-86	123,900	119,457	0	119,457	+12,361
1986-87	121,000	63,192	0	63,192	- 45,447
1987-88	106,300	85,251	20,447	105,698	- 46,049
1988-89	98,800	70,280	21,190	91,470	- 53,379
1989-90	81,800	67,709	28,279	95,988	- 39,191
1990-91	85,600	75,572	14,835	90,407	- 34,384
1991-92	88,700	105,990	14,735	120,725	- 2,359
1992-93	86,400	156,594	2,359	158,953	+70,194
1993-94	---	84,362	0	84,362	---
Totals	1,505,718 ^(b)	1,522,026	109,130	1,631,156	125,438

(a) Excludes water delivered to Make-up for First Long-term Accounting.

(b) The figures shown for the first 14 years are for information purposes only. The Second Long-term Accounting was determined in accordance with paragraph 5(h) of the Judgment.

TABLE 10
DATA FOR SECOND
LONG-TERM ACCOUNTING PERIOD

Number of Years	Water Year	<u>Rainfall in Inches</u>		<u>Water Received by Lower Area in Acre-Feet</u>				Long-Term Accounting Formula ^(b) in Acre-Feet
		Amount	Accumulated Average Annual Amount	Usable	Make-Up ^(a)	Total	Accumulated Total	
1	1979-80	34.85	34.85	137,175	0	137,175	137,175	185,192
2	1980-81	10.31	22.58	85,917	0	85,917	223,092	239,980
3	1981-82	18.88	21.35	94,823	0	94,823	317,915	340,361
4	1982-83	39.26	25.82	185,014	7,285	192,299	510,214	548,828
5	1983-84	10.56	22.77	99,725	0	99,725	609,939	604,997
6	1984-85	14.58	21.41	90,965	0	90,965	700,904	682,635
7	1985-86	21.96	21.48	119,457	0	119,457	820,361	799,011
8	1986-87	9.06	19.93	63,192	0	63,192	883,553	847,262
9	1987-88	14.88	19.37	85,251	20,447	105,698	989,251	926,387
10	1988-89	11.15	18.55	70,280	21,190	91,470	1,080,721	985,744
11	1989-90	12.35	17.99	67,709	28,279	95,988	1,176,709	1,051,585
12	1990-91	15.12	17.75	75,572	14,835	90,407	1,267,116	1,131,879
13	1991-92	22.80	18.14	105,990	14,735	120,725	1,387,841	1,253,144
14	1992-93	35.94	19.41	156,594	2,359	158,953	1,546,794	1,444,022
15	1993-94	11.64	18.89	84,362	0	84,362	1,631,156	1,505,718

(a) Excludes water delivered to Make-up for deficit in First Long-term Accounting Period.

(b) The figures shown for first 14 years are for informational purposes only. The Second Long-term Accounting was determined in accordance with paragraph 5(h) of the Judgment.

Third Long-term Accounting Period

Table 11 is a summary of operations under the Judgment showing Lower Area Annual Entitlement, Usable Water and Make-up Water received by the Lower Area and the Accrued Debit or Credit of Upper Area for each year of operation during the Third Long-term Accounting Period beginning with water year 1994-95. Included in the Accrued Credit of the Upper Area at the start of the period is the carryover from the Second Long-term Accounting Period of 125,438 acre-feet.

Water year 2005-06 is the twelfth year in the third Long-term Accounting Period which, as explained above can occur between the 15th and 25th year. Table 12 is a summary of operations under the Judgment showing data to be used for the Third Long-term Accounting.

TABLE 11

**SUMMARY OF ANNUAL OPERATIONS
UNDER JUDGMENT DURING
THIRD LONG-TERM ACCOUNTING PERIOD**

(In Acre-Feet)

Water Year	Entitlement	<u>Water Received by Lower Area</u>			Annual Credit (+) or Debit (-)	Accrued Credit (+) or Debit (-)
		Usable	Make-Up ^(a)	Total		
1993-94	---					+ 125,438 ^(a)
1994-95	98,300	140,103	0	140,103	+ 41,803	+ 167,241
1995-96	94,000	108,201	0	108,201	+ 14,201	+ 181,442
1996-97	99,500	107,035	0	107,035	+ 7,535	+ 188,977
1997-98	113,100	145,722	0	145,722	+ 32,622	+ 221,599
1998-99	111,300	82,118	0	82,118	- 29,182	+ 192,417
1999-00	112,500	77,042	0	77,042	- 35,458	+ 156,959
2000-01	112,500	85,585	0	85,585	- 26,915	+ 130,044
2001-02	102,700	61,421	0	61,421	- 41,279	+ 88,765
2002-03	91,500	92,092	0	92,092	+ 592	+ 89,357
2003-04	92,500	63,072	0	63,072	- 29,428	+ 59,929
2004-05	102,700	170,370	0	170,370	+ 67,670	+ 127,599
2005-06	103,300	98,118	0	98,118	- 5,182	+ 122,417
Totals	1,233,900	1,230,879	0	1,230,879		

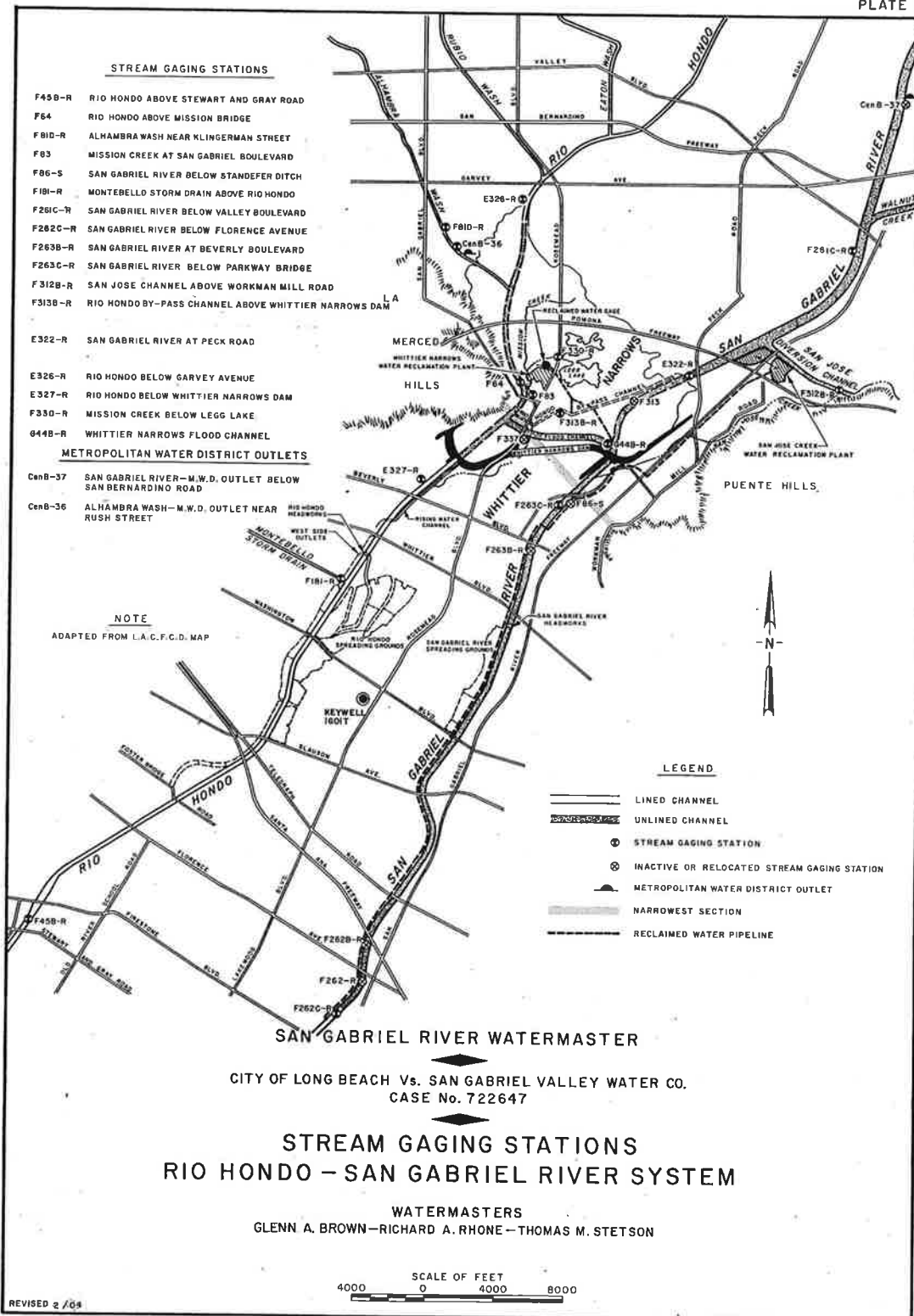
^(a) Carryover of credit from Second Long-term Accounting Period.

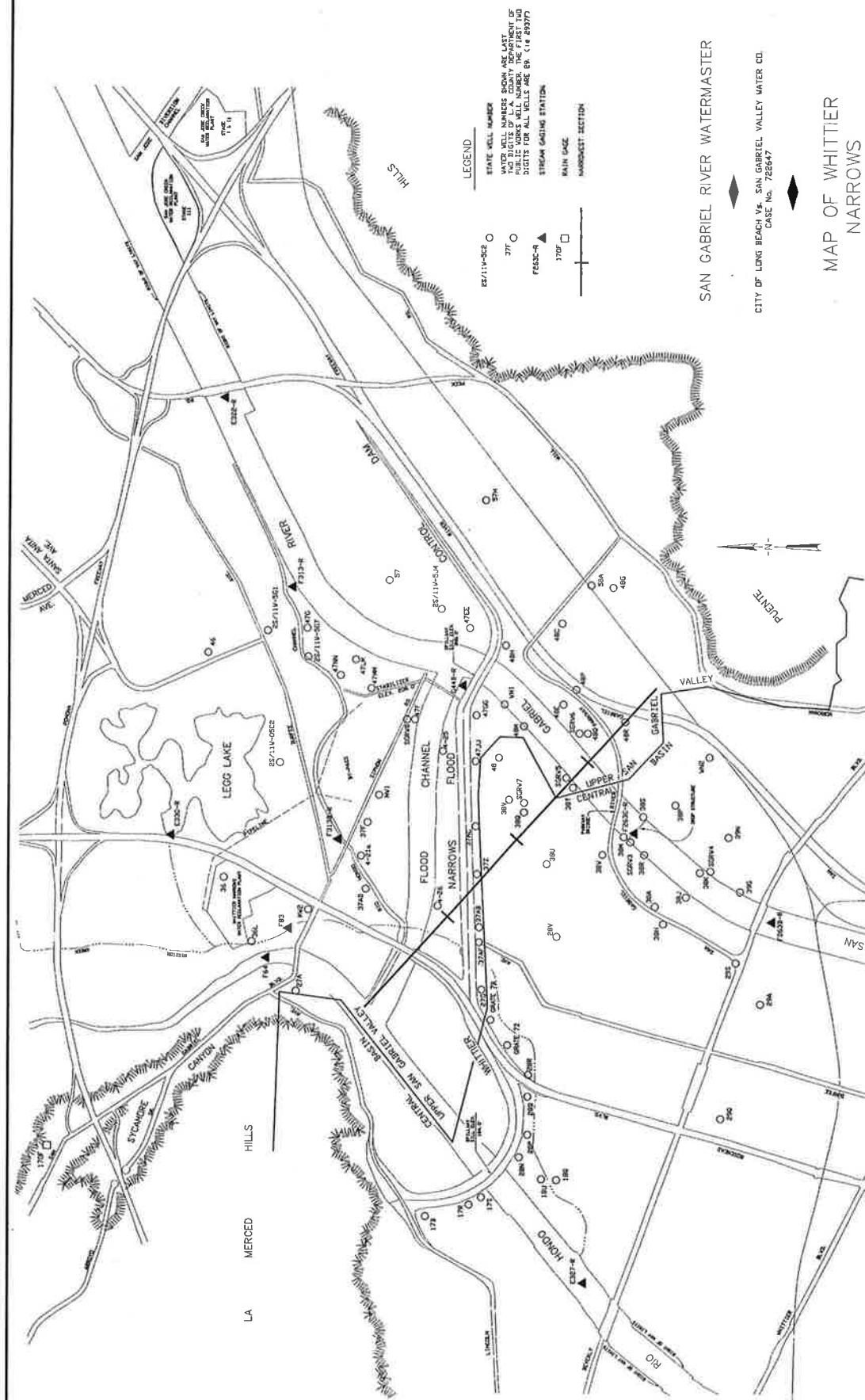
TABLE 12
DATA FOR THIRD
LONG-TERM ACCOUNTING PERIOD

Number of Years	Water Year	<u>Rainfall in Inches</u>		<u>Water Received by Lower Area in Acre-Feet</u>				Long-Term Accounting Formula ^(b) in Acre-Feet
		Amount	Accumulated Average Annual Amount	Usable	Make-Up	Total	Accumulated Total	
0	1993-94	---	---	---	---		125,438 ^(a)	-----
1	1994-95	30.44	30.44	140,103	0	140,103	265,541	161,758
2	1995-96	15.60	23.02	108,201	0	108,201	373,742	244,656
3	1996-97	17.49	21.18	107,035	0	107,035	480,777	337,651
4	1997-98	36.13	24.92	145,722	0	145,722	626,499	529,698
5	1998-99	8.63	21.66	82,118	0	82,118	708,617	575,505
6	1999-00	14.38	20.44	77,042	0	77,042	785,659	651,707
7	2000-01	15.50	19.74	85,585	0	85,585	871,244	734,286
8	2001-02	6.44	18.08	61,421	0	61,421	932,665	768,615
9	2002-03	19.36	18.22	92,092	0	92,092	1,024,757	871,387
10	2003-04	12.90	17.69	63,072	0	63,072	1,087,829	940,044
11	2004-05	45.32	20.20	170,370	0	170,370	1,258,199	1,180,767
12	2005-06	16.78	19.91	98,118	0	98,118	1,356,317	1,269,617

(a) Carryover of credit from Second Long-term Accounting Period.

(b) The figures shown are for informational purposes only. The Third Long-term Accounting will be determined in accordance with paragraph 5(h) of the Judgment.





SAN GABRIEL RIVER WATERMASTER

CITY OF LONG BEACH Vs. SAN GABRIEL VALLEY WATER CO.
CASE No. 722647

MAP OF WHITTIER
NARROWS

GLENN A. BROWN - RICHARD A. RHONE - THOMAS M. STETSON



APPENDIX

**PARTIES TO JUDGMENT
CITY OF LONG BEACH, ET AL, VS.
SAN GABRIEL VALLEY WATER CO., ET AL,
CASE NO. 722647 - LOS ANGELES COUNTY**

Court - Clerk of Superior Court (Case No. 722647)

Plaintiffs

Board of Water Commissioners of the City of Long Beach
Central Basin Municipal Water District
City of Compton

Defendants

San Gabriel Valley Water Company
(includes, by merger, Vallecito Water Company)
Azusa Agricultural Water Company
Azusa Valley Water Company
California-American Water Company
(successor to California Water and Telephone Company)
Covina Irrigating Company
East Pasadena Water Company, Ltd.
Glendora Irrigating Company (now City of Glendora)
Golden State Water Company (formerly known as Southern California
Water Company)
Suburban Water Systems
Sunny Slope Water Company
City of Alhambra
City of Arcadia
City of Azusa
City of Covina
City of El Monte
City of Glendora
City of Industry (successor to Cross Water Company)
City of Monrovia
City of Monterey Park
City of South Pasadena
San Gabriel County Water District
Valley County Water District
(formerly known as Baldwin Park County Water District)

Intervenors

Upper San Gabriel Valley Municipal Water District
California Domestic Water Company

Christine L. Blazey, CPA

An Accountancy Corporation

January 10, 2007

San Gabriel River Watermaster
225 W. Broadway, Suite 400
Glendale, CA 91203

GEI Consultants

JAN 18 2007

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We have audited the accompanying statement of Income and Expenditures for the San Gabriel River Watermaster for the water year 2005-2006. This financial statement is the responsibility of management. Our responsibility is to express an opinion on this financial statement based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the statement of income is free of material misstatement. An audit includes examining on a test basis, evidence supporting the amounts of disclosures in the statement of income. An audit also included assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the statement of income. We believe that our audit of the statement of income provides a reasonable basis for our opinion.

In our opinion, the statement of income referred to above presents fairly, in all material respects, the results of operations of San Gabriel River Watermaster for the year ended, in conformity with generally accepted accounting principles.



Christine L. Blazey, CPA
An Accountancy Corporation

SAN GABRIEL RIVER WATERMASTER
Statement of Income
For the Water Year 2005-2006

Carried forward from year 2004 - 2005	\$986.74
Income	155,000.00
Interest Income	<u>1,704.47</u>
	\$157,691.21

Expenditures:

Administrative fees and general operating expenses	\$ 32,280.03
Collection of data, field inspections, maintenance of records	49,211.77
Calculations and preparation of Watermaster Reports for water year 2004-2005	58,475.40
Printing and reproduction costs	<u>4,480.38</u>
Total Expenditures	<u>144,447.58</u>
Balance	<u>\$ 13,243.63</u>