



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT



Patrick O. Sheilds
Executive Manager of Operations

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May 15, 2008

Regional Water Quality Control Board, Santa Ana Region

Attention: Mr. Gerard Thibeault
3737 Main Street, Suite 500
Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program
Quarterly Monitoring Report for January through March 2008**

Dear Mr. Thibeault,

The Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) hereby submit the *Quarterly Monitoring Report* for the first quarter of 2008 (1Q08), January 1 through March 31, 2008, for the *Recycled Water Groundwater Recharge Program*. This document is submitted pursuant to requirements in Order No. R8-2007-0039. All required monitoring and reporting for the quarter are presented in the attached report.

During 1Q08, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of Odor and Oil & Grease. Both constituents are not considered maximum contaminant level chemicals and are discussed in further detail in the report text.

Furthermore, the Chino Basin Watermaster hereby certifies that, during the period of October 1 through December 31, 2007, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time of the recharge sites using recycled water, namely Banana, Hickory, Turner, 7th & 8th Street, and Ely Basins. In point of fact, there are no production wells in the buffer zones of the aforementioned recharge sites.

DECLARATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments thereto; and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

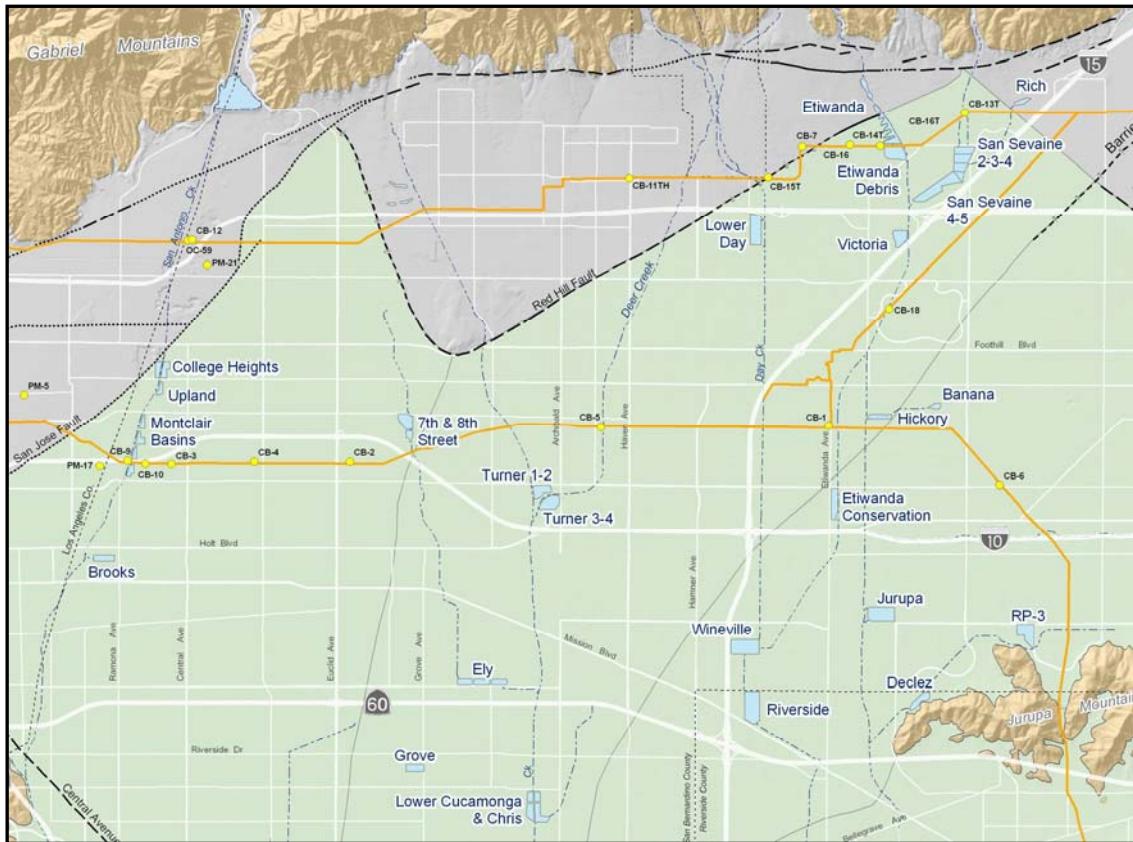
Executed on the 15th day of May 2008 in the Cities of Chino and Rancho Cucamonga.

Patrick O. Sheilds
Executive Manager of Operations

Kenneth R. Manning
Chief Executive Officer

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 31, 2008



Prepared by:



May 15, 2008

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1. Introduction

Inland Empire Utilities Agency (IEUA), Chino Basin Watermaster (Watermaster), Chino Basin Water Conservation District, and San Bernardino County Flood Control District are partners in the operation and maintenance of the Chino Basin Recycled Water Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells throughout the Chino Groundwater Basin by increasing the recharge of stormwater, imported water and recycled water. This program is an integral part of Watermaster's Optimum Basin Management Plan (OBMP).

A. Order No. R8-2007-0039

On June 29, 2007, the Santa Ana Regional Water Quality Control Board (Regional Board) adopted Order No. R8-2007-0039 which prescribes the requirements for recycled water use for groundwater recharge in six Phase I recharge sites and seven Phase II recharge sites within the Chino North Management Zone. Ely Basin is incorporated into the new Order as one of the seven Phase II recharge sites although recycled water groundwater recharge activities began at this site in 1997. As a provision of this Order, IEUA and Watermaster must also comply with Monitoring and Reporting Program No. R8-2007-0039 (M&RP).

The M&RP includes the water quality monitoring requirements of the Chino Basin Recycled Water Groundwater Recharge Program and the requirement for the submittal of quarterly and annual reports. This document is the quarterly report for the First Quarter of 2008 (1Q08), which is due to the Regional Board by May 15, 2008.

The quarterly report includes the following elements as prescribed in the M&RP:

- Monitoring results for recycled water (including lysimeter monitoring), diluent water, and groundwater.
- Recycled water and diluent water volumes recharged at each basin.
- Reporting of any non-compliance events due to water quality, including records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any diversion(s) of off-specification recycled water and the location(s) of final disposal. All corrective or preventive action(s) taken.
- Certification that no groundwater has been pumped from the zone that extends 500 feet and 6-months underground travel time from the recharge basin(s) where recycled water is applied for domestic water supply use.

In April 2007, the Monte Vista Water District (MVWD) entered into an agreement with Watermaster and IEUA to begin reporting its Aquifer Storage & Recovery (ASR) Project injection/recovery volumes and TIN/TDS data under the then existing Phase I Groundwater Recharge Order No. R8-2005-0033 and future permit updates, such as the current Order No. R8-2007-0039.

B. Outline of the Quarterly Report

Section 2 of this quarterly report discusses the water quality monitoring results for recycled water (water recycling plant effluent, basin surface water, and lysimeter data), diluent water, and groundwater. Section 3 provides an overview of recharge operations including the volume of diluent water and recycled water recharged. Section 4 describes any operational problems and preventive and/or corrective actions taken. Section 5 contains the certification of non-pumping in the 500-foot buffer zones around each basin. Section 6 is an overview of the Monte Vista Water District (MVWD)

Aquifer Storage and Recovery (ASR) project, including injection volumes and TIN/TDS mass balance. Section 7 describes WateReuse Foundation research study in which IEUA is a participant that includes additional monitoring of recharge using recycled water.

2. Monitoring Results

A. Recycled Water: RP-1 and RP-4

The requirements for recycled water monitoring are presented in the M&RP. Tables 2-1 through 2-4 include all of the requisite 1Q08 data.

Recycled Water Specifications A.5 though A.9 are narrative limits in the permit and corresponding monitoring data are presented in Tables 2-1 through 2-2. None of these limits were exceeded in 1Q08.

In the Order, compliance for constituents with maximum contaminant levels (MCLs) and secondary MCLs are based on 4-quarter running averages. These constituents are listed in Recycled Water Specifications A.1 through A.3 (Tables I, II, and III in the Order). The 4-quarter running average concentration data for 2Q07 through 1Q08 are summarized in Table 2-3 of this report. The table includes the 4-quarter running average for each parameter and the corresponding limits for compliance. Of the Recycled Water Quality Specifications with limitations, only Oil & Grease does not require the 4-quarter running averages for compliance determination. Maximum contaminant levels for inorganic chemicals, organic chemicals, radionuclides, and disinfection byproducts; and action levels for lead and copper; and secondary MCLs were not exceeded during 1Q08, with the exception of threshold odor.

Due to the volume of sample required for analyses, IEUA has selected a recycled water sampling point along the distribution pipeline. IEUA selected the turnout to Reliant Energy (an IEUA recycled water customer) to be representative of the system blend of recycled water used for recharge. Although this sampling location is suitable for most constituents, it is not appropriate for disinfection byproducts (DBP), more specifically, Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5). For TTHMs and HAA5, samples collected at the basin are more consistent and representative of the recycled water prior to reaching the groundwater table. Compliance is selected at a point prior to the groundwater table and has in previous quarters been selected at a lysimeter actively receiving recycled water recharge during the defined sampling time. During the prescribed sampling date for 1Q08, the 8th Street Basin was undergoing its start-up period. As the compliance point for the 8th Street Basin has not yet been determined, TTHMs and HAA5 were sampled at all 8th Street Basin lysimeters and show a general decrease with depth. All 8th Street Basin results for 1Q08 were significantly less than their respective limits. For 1Q08, the compliance point for TTHMs and HAA5 is the 8th Street Basin 15-foot depth lysimeter; however, the final compliance point for this site will be determined at the conclusion of its start-up period evaluation.

The 8th Street Basin 15-foot depth lysimeter was also chosen as the compliance point for Total Nitrogen for 1Q08, as this basin received the most consistent amount of recycled water during the quarter. Also, this basin showed the most marked difference in EC from one week to another, which was the indicator that the recycled water had arrived at the lysimeter.

During 1Q08, the threshold odor secondary MCL of 3 Units was exceeded by a 4-quarter running average value of 6 Units. Stormwater sampling for 1Q08 indicated that all three diluent waters resulted in threshold odor values of 8 Units. Sampling of the basin and lysimeters from previous quarters revealed that a slight odor is common to the formation.

Oil and grease, which has a narrative limit in Recycled Water Specification A.15 of 1 mg/L, was exceeded during 1Q08 with the sample value of 3 mg/L. Oil and grease is not considered a primary or secondary MCL. The increased level of oil and grease experienced in recent quarters has been

correlated to the increased frequency of sanitary sewer line cleaning by Regional Contracting Agencies and IEUA since the adoption of State Water Resources Control Board Order No. 2006-0003 (SSO-WDR). IEUA's Pretreatment & Source Control Department is actively working to enforce Fats, Oils, and Grease (FOG) program for local cities.

For constituents with no specified limits, quarterly monitoring data are summarized in Table 2-4.

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analysis are performed weekly during periods when recycled water is delivered to recharge sites. Electrical conductivity is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. The basin and lysimeter water quality results are summarized in Table 2-5. The table includes lysimeter data for 7th & 8th Street, Ely, and Hickory Basins.

Compliance monitoring points have not yet been established for the 7th & 8th Street Basins; therefore all lysimeter sampling data collected during 1Q08 are presented in this report for this recharge site. In the quarterly reports following the completion of these sites' Start-Up Period Reports, quarterly monitoring and reporting will be limited to compliance monitoring sampling points selected based on the Start-Up Period data evaluation.

After a basin start-up period is complete, TOC compliance is determined from the maximum average RWC indicated by the 20-sample running average TOC. ($TOC_{avg} = 0.5 \text{ mg/L} \div RWC_{avg}$). Recycled water total nitrogen compliance of 5 mg/L can be met on a sample collected prior to reaching the regional groundwater table. All total nitrogen values from the lysimeters were in compliance with this limit.

C. Diluent Water

For 1Q08, diluent water (stormwater) sampling was conducted at the Banana, San Sevaine, and Declez Basins near their outlet structures. State Water Project water was not delivered to any basins during the monitoring period. Table 2-6 lists the results of diluent water sampling and analyses. The stream gauging method used to measure daily diluent water flow can be found in the CDPH-approved "Diluent Water Monitoring Plan."

D. Groundwater Monitoring Wells

During 1Q08, groundwater quality within the vicinity of Banana and Hickory Basins was monitored by sampling a network of five wells. The groundwater quality within the vicinity of the Turner Basins is monitored by sampling a network of five wells. The groundwater quality within the vicinity of the 7th & 8th Street Basins is monitored by sampling a network of four wells. The groundwater quality within the vicinity of the Ely Basin is monitored by sampling a network of three wells. The wells in the monitoring well networks for Hickory and Banana Basins, Turner Basin, 7th & 8th Street Basins, and Ely Basins are summarized in Table 2-7, and presented on Figures 2-1 through 2-4, respectively.

The groundwater constituents analyzed from the monitoring wells during 1Q08 are presented in Table 2-8. Per the order municipal and private wells are not required to be sampled, but available data from the well owner may be provided. During 1Q08, several but not all municipal wells were sampled. Ontario well 19 is permanently out of service and has been replaced with nearby Ontario well 38. San Antonio Water Company Well 12 is out of service. Ontario Well 51 is not yet been put in service. For the next quarterly report, IEUA will request owner historical water quality data for these out of service

wells and private well Bishop of San Bernardino Corp and municipal wells City of Ontario Well 4 and Well 35.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all basins. The 7th & 8th Street, Ely, and Hickory Basins were the only recharge basins to receive recycled water this quarter. No imported water was delivered to any of the aforementioned recharge basins during 1Q08. Table 3-1 lists the volumes of diluent water, recycled water, and/or local runoff captured during 1Q08 at the basins that have initiated recharge using recycled water.

4. Operational Problems & Preventive or Corrective Actions

No operational problems were encountered this quarter, therefore no corrective actions were necessary for the following: Regional Plants RP-1 & RP-4, recharge operations, and monitoring well sampling.

During lysimeter sampling at Ely basin, the compliance lysimeter (15-foot depth) would not hold a negative pressure and could not be sampled. Rather than not collecting a sample, IEUA sampled the 10-and 25-foot depth lysimeters. These data are reported in Table 2-5. IEUA will continue to sample these two depths during recycled water recharge until an alternative monitoring plan is developed.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q08 for domestic or municipal use from the zones that extend 500 feet and 6 months underground travel time from the Hickory, Banana, Turner 7th & 8th Street, and Ely Basins. In fact, there are no production wells within the buffer zones of these aforementioned recharge sites. In the cover letter of this report, Watermaster certifies non-pumping in the buffer zones.

IEUA continues to work with the San Bernardino County Department of Environmental Health Services (SBCDEHS) to prevent the drilling and construction of new drinking water wells within the buffer zones. SBCDEHS has initiated control over production well permitting within the buffer zones of all recharge sites through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section/40-acre Parcel) that is used in the permitting process. SBCDEHS reviews new well permit applications in part by checking the proposed location of a new drinking water well against a list of 40-acre parcels that abut recharge basins and their 500-foot buffers. IEUA has provided SBCDEHS with a list of parcels abutting each recharge basin and a series of maps showing the recharge basins, buffers, and township/range/section parcels adjacent the basins and buffers.

If a well falls within an abutting parcel, SBCDEHS will review the proposed well location using maps of the basins and buffers. If the well falls too near the buffer boundary for SBCDEHS to determine the relationship of the proposed well location to the buffer boundary, SBCDEHS will defer to IEUA for a prompt field review of the proposed well location. The field review may include contacting and having the well applicant to identify the exact location of the proposed well casing. To conduct a detailed field review, SBCDEHS will contact and provide IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a timeline for the completion of IEUA's review. Following the review, IEUA will notify SBCDEHS of its findings in writing. IEUA will also notify the California Department of Public Health and the Regional Board of well permit applications that it recommends to be declined due to well locations that are determined to fall with a 500-foot buffer. SBCDEHS has initiated control over production well permitting within the buffer zones of all Phase I and Phase II basins through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section) that is used in the permitting process.

6. MVWD ASR Project

The Regional Board has allowed the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project to be included under IEUA/CBWM Phase I Groundwater Recharge Order No. R8-2005-0033 and subsequent permit updates. In April 2007, MVWD, Watermaster, and IEUA entered into an agreement to report the MVWD ASR project groundwater injection/recovery volumes and TIN/TDS mass balance in the recharge program quarterly reports. The Regional Board has been apprised of this agreement and that IEUA will be reporting MVWD ASR project data on a quarterly basis. Initial injection began in June 2007. Table 6-1 summarizes the monthly volumes and TIN/TDS of injected and recovered water. The table also includes the mass balance of TIN/TDS from the injection-recovery cycles.

7. WateReuse Study

IEUA is participating in WateReuse Foundation research study WR-06-018, which includes periodic testing of San Antonio Water Company (SAWCO) Well No. 12 and 8th Street Basin 1/1. The purge water from the well sampling is delivered to the 8th Street Recharge Basin. The Regional Board has allowed the test discharges to be covered under IEUA's Groundwater Recharge permit (Order No. R8-2007-0039) rather than the General De Minimus Discharge permit (NPDES No. CAG998001, Order No. R8-2006-0004). Therefore, the well discharge will not be sampled for constituents beyond those identified in the WRF study, and the discharge quantities will be reported in the groundwater recharge quarterly reports.

During 1Q08, SAWCO Well No. 12 was sampled on February 11, 2008 and discharged approximately 27,000 gallons; monitoring well 8th Street Basin 1/1 was sampled on January 15, 2008 following micropurging of less than 10 gallons. Laboratory results for the two sampling/discharge events are included in Table 7-1.

Table 2-1a
 Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for January 2008
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit Limits	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
	NTU	mg/L	mg/L	mg/L	mg/L	unit	μho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	μho/cm	mg/L	mg/L	mpn/100mL
2;5;10	16	*			6<pH<9					2.2;23;240	2;5;10	16	*		6<pH<9					2.2;23;240
01/01/08	0.6	5.5	6.4	8.0	6.4	7.1	830	514	<2		0.3	5.2	4.2	5.2	4.2	6.7	775	434	<2	
01/02/08	0.5	5.5				7.0	830		<2		0.3	5.3	4.6		4.6	6.7	770		<2	
01/03/08	0.6	6.2	7.0		7.1	7.1	854		<2		0.3	5.2	4.9		5.0	6.7	787		<2	
01/04/08	0.7	6.1				7.0	900		2		0.3	5.5	5.1		5.2	6.7	825		<2	
01/05/08	0.9	5.6				6.9	900		2		0.2	5.2	6.0		6.0	6.7	820		<2	
01/06/08	0.8	6.2	6.0		6.0	6.9	770		2		0.2	5.7	6.2		6.2	6.7	740		<2	
01/07/08	0.8	6.1				6.9	815		4		0.3	5.7	6.5		6.5	6.7	790		4	
01/08/08	0.9	6.2	7.8		7.8	6.9	850	514	140	<2	0.3	5.4	6.4		6.4	6.7	820	476	131	
01/09/08	1.0	6.2				6.9	865		2		0.3	5.4	6.5		6.5	6.7	810		<2	
01/10/08	1.1	6.0	7.8		7.8	6.9	860		<2		0.4	5.2	7.3		7.3	6.6	805		<2	
01/11/08	1.1	5.9				6.9	880		<2		0.3	5.2	4.3		4.3	6.8	790		<2	
01/12/08	1.4	5.9				6.9	880		<2		0.2	4.9	3.4		3.4	6.8	795		<2	
01/13/08	1.5	6.6	6.0		6.0	7.0	870		2		0.2	5.3	3.3		3.3	6.7	780		<2	
01/14/08	1.3	6.5				7.0	865		<2		0.2	5.2	3.0		3.0	6.7	785		<2	
01/15/08	1.1	3.8	5.1	5.9	5.2	7.0	865	502	<2		0.2	4.9	3.9	4.6	3.9	6.7	760	442	<2	
01/16/08	1.2	6.5				7.0	895		2		0.1	4.8	4.3		4.3	6.7	780		<2	
01/17/08	1.5	6.3	7.0		7.0	7.1	903		<2		0.2	4.7	4.5		4.5	6.7	770		<2	
01/18/08	1.6	5.9				7.1	890		<2		0.2	5.0	4.9		4.9	6.7	800		<2	
01/19/08	1.4	5.9				7.0	890		<2		0.2	5.2	3.9		3.9	6.6	820		<2	
01/20/08	1.2	6.2	6.3		6.3	7.1	875		<2		0.3	5.3	2.6		2.6	6.7	805		<2	
01/21/08	1.3	6.1				7.1	870		2		0.3	5.5	3.4		3.4	6.7	815		<2	
01/22/08	1.3	6.2	6.6	7.7	6.6	7.1	830	510	<2		0.3	5.2	3.7	4.2	3.7	6.7	775	474	<2	
01/23/08	1.3	6.1				7.0	835		2		0.3	5.1	3.0		3.0	6.7	770		<2	
01/24/08	1.1	5.7	7.0		7.0	7.0	830		<2		0.2	5.1	4.5		4.5	6.7	760		<2	
01/25/08	1.1	5.3				7.0	860		<2		0.2	4.9	5.2		5.2	6.7	750		<2	
01/26/08	1.1	5.5				7.0	860		2		0.3	4.9	5.0		5.0	6.7	760		<2	
01/27/08	1.0	NS				7.0	NS		<2		0.3	5.0	4.1		4.1	6.7	755		<2	
01/28/08	0.9	NS				7.0	NS		2		0.4	5.1	4.4		4.4	6.7	760		<2	
01/29/08	1.1	NS				7.0	NS	NS	<2		0.7	10.9	28.3	33.6	28.3	6.6	850	538	<2	
01/30/08	1.1	7.5				6.8	890		2		0.5	7.6	15.8		15.8	6.5	840		<2	
01/31/08	1.0	6.2	7.8	8.6	7.8	7.1	865		<2		0.3	6.0	9.9		9.9	6.7	790		<2	
Avg	1.1	6.0	6.7	7.5	6.7	7.0	862	510	140	<2	0.3	5.5	5.9	11.9	5.9	6.7	789	473	131	
Min	0.5	3.8	5.1	5.9	5.2	6.8	770	502	140	<2	0.1	4.7	2.6	4.2	2.6	6.5	740	434	131	
Max	1.6	7.5	7.8	8.6	7.8	7.1	903	514	140	4	0.7	10.9	28.3	33.6	28.3	6.8	850	538	131	

Note: Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA0105279, Order No. R8-2006-0010.

TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date.

*TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

Table 2-1b
 Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for February 2008
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit Limits	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
	NTU	mg/L	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	μhmo/cm	mg/L	mg/L	mpn/100mL
2/5;10	16	*				6<pH<9				2.2;23;240	2/5;10	16	*			6<pH<9				2.2;23;240
02/01/08	1.1	5.9				7.1	860		<2		0.3	5.5	7.4		7.5	6.6	770			<2
02/02/08	1.1	5.7				7.1	870		<2		0.3	5.3	6.4		6.5	6.7	765			<2
02/03/08	1.1	6.0	6.2		6.2	7.1	795		<2		0.3	5.2			6.7	750				<2
02/04/08	1.1	6.2				7.1	780		2		0.3	5.2	6.4		6.5	6.7	770		2	
02/05/08	0.9	6.4	6.0	6.7	6.0	7.1	765	472	147	<2	0.3	5.2	7.7	8.2	7.8	6.8	870	444	141	<2
02/06/08	0.9	6.2				7.1	760		<2		0.3	5.2	7.7		7.8	6.8	705			<2
02/07/08	1.0	6.4	3.7		3.7	7.2	765		<2		0.3	6.0	9.4		9.5	6.6	710			<2
02/08/08	1.0	6.2				7.2	780		2		0.3	5.7	7.8		7.9	6.7	700			<2
02/09/08	1.0	6.1				7.2	775		<2		0.3	5.4	5.3		5.4	6.8	695			<2
02/10/08	1.0	5.6	5.2		5.2	7.2	765		2		0.3	5.2	4.2		4.3	6.7	700			<2
02/11/08	1.1	6.4				7.2	770		2		0.5					6.8				<2
02/12/08	1.1	6.4	4.4	5.4	5.4	7.2	775	472		2	ND									NS
02/13/08	1.1	6.1				7.2	835		<2		ND									NS
02/14/08	1.2	6.2	10.8		10.8	7.2	850		<2		ND									NS
02/15/08	0.9	5.9				7.1	835		<2		ND									NS
02/16/08	1.0	5.9				7.0	850		<2		ND									NS
02/17/08	1.1	5.7				7.1	810		<2		ND									NS
02/18/08	1.1	6.2				7.1	815		<2		ND									NS
02/19/08	1.3	6.6	4.9	6.2	5.9	7.1	850	496		<2	ND									NS
02/20/08	1.3	6.7				7.1	830		<2		ND									NS
02/21/08	1.3	6.8	5.2		5.2	7.1	865		<2		ND	4.9	1.5		1.6		755			NS
02/22/08	1.1	6.5				7.1	815		2		0.4	4.5	1.3		1.4	6.8	750			<2
02/23/08	1.3	6.7				7.1	860		<2		0.3	4.3	2.1		2.2	6.8	755			<2
02/24/08	1.3	6.8	6.9		6.9	7.1	835		<2		0.3	4.2	2.3		2.4	6.7	735			<2
02/25/08	1.3	6.4				7.1	855		<2		0.3	4.1	2.0		2.1	6.8	760			<2
02/26/08	1.2	6.0	4.9	5.9	4.9	7.2	830	506		4	0.2	4.0	2.1	2.1	2.2	6.8	785	456		<2
02/27/08	1.2	6.6				7.2	835		2		0.2	4.3	2.4		2.5	6.8	775			<2
02/28/08	1.2	6.5	6.4		6.4	7.2	815		<2		0.3					6.7	755			<2
02/29/08	1.3	6.2				7.2	820		<2		0.2	4.4				6.7	720			<2
Avg	1.1	6.2	5.9	6.0	6.1	7.1	816	487	147	<2	0.3	4.9	4.8	5.2	4.9	6.7	749	450	141	<2
Min	0.9	5.6	3.7	5.4	3.7	7.0	760	472	147	<2	0.2	4.0	1.3	2.1	1.4	6.6	695	444	141	<2
Max	1.3	6.8	10.8	6.7	10.8	7.2	870	506	147	4	0.5	6.0	9.4	8.2	9.5	6.8	870	456	141	2

Note: Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA0105279, Order No. R8-2006-0010.

TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date.

*TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

ND: No Discharge

NS: No Sample

Table 2-1c
 Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for March 2008
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit Limits	RP-1 Effluent										RP-4 Effluent									
	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NO ₃ -N	TN	TIN	pH	EC	TDS	Hardness	Coliform
	NTU	mg/L	mg/L	mg/L	mg/L	unit	μho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	μho/cm	mg/L	mg/L	mpn/100mL
2;5;10	16	*				6<pH<9				2.2;23;240	2;5;10	16	*			6<pH<9				2.2;23;240
03/01/08	1.4	6.3				7.1	830			<2	0.2	4.3	3.1		3.2	6.8	725			<2
03/02/08	1.2	6.5	7.0	7.0	7.1	7.1	825			<2	0.2		3.1		3.2	6.8	740			<2
03/03/08	1.2	6.8				7.1	850			<2	0.2	5.0	3.2		3.3	6.8	750			<2
03/04/08	1.2	6.7	6.9	7.2	6.9	7.1	815	560	145	2	0.2	5.0	3.2	3.7	3.3	6.8	740	438	137	<2
03/05/08	1.2	6.8				7.1	845			4	0.2	4.8	3.5		3.6	6.8	740			<2
03/06/08	1.1	6.7	6.4		6.4	7.1	820			<2	0.2	4.9	3.7		3.8	6.7	735			LA
03/07/08	1.0	6.4				7.1	815			<2	0.2	5.0	4.1		4.2	6.7	750			<2
03/08/08	1.0	6.4				7.1	820			<2	0.2	4.9	3.4		3.5	6.8	745			<2
03/09/08	1.1	6.7	5.4		5.4	7.2	835			<2	0.2	5.0	2.8		2.9	6.8	760			<2
03/10/08	0.9	6.5				7.1	825			<2	0.2	5.0	2.9		3.0	6.8	765			<2
03/11/08	0.9	6.5	6.9	7.5	6.9	7.1	830	524		<2	0.2	5.0	1.7	1.7	1.8	6.8	770	438		<2
03/12/08	1.0	6.5				7.1	850			<2	0.2	5.0	2.6		2.7	6.8	770			<2
03/13/08	1.1	6.9	6.4		6.4	7.1	830			<2	0.3	5.0	2.4		2.9	6.8	760			<2
03/14/08	1.2	6.8				7.2	840			<2	0.1	5.0	4.3		4.4	6.8	770			<2
03/15/08	1.2	6.9				7.1	850			<2	0.1	5.0	4.4		4.5	6.8	790			<2
03/16/08	1.0	6.6	5.7		5.7	7.1	840			2	0.1	5.0	3.9		4.0	6.8	770			<2
03/17/08	1.0	6.7				7.1	840			<2	0.1	5.0	3.4		3.5	6.9	780			<2
03/18/08	1.0	6.6	5.4	6.0	5.4	7.0	855	556		<2	0.1	5.0	2.5	2.5	2.6	6.9	760	460		<2
03/19/08	1.1	6.6				7.0	860			<2	0.1	5.0	2.5		2.6	6.8	765			<2
03/20/08	1.0	6.7	7.9		7.9	6.9	855			<2	0.2	5.0	2.6		2.7	6.8	775			<2
03/21/08	1.1	6.2				6.9	870			<2	0.2	5.0	3.1		3.2	6.7	775			<2
03/22/08	1.0	6.1				6.9	865			<2	0.2	5.0	2.8		2.9	6.8	770			<2
03/23/08	0.8	6.3	7.7		7.7	6.9	825			2	0.2	5.0	2.3		2.4	6.8	780			<2
03/24/08	0.8	6.5				6.9	840			<2	0.2	5.0	1.8		1.9	6.8	730			<2
03/25/08	0.8	6.3	7.4	8.2	7.4	6.9	850	530		<2	0.3	4.7	2.1	2.1	2.2	6.8	800	464		<2
03/26/08	0.9	6.3				7.0	845			<2	0.3	4.6	2.0		2.1	6.8	810			<2
03/27/08	0.9	6.1	4.4		4.4	7.0	830			<2	0.4	4.3	2.0		2.1	6.8	785			<2
03/28/08	1.5	6.4				7.0	860			<2	0.4	4.2	2.3		2.4	6.8	790			<2
03/29/08	1.0	6.1				7.0	870			2	0.5	4.0	2.9		3.0	6.8	795			<2
03/30/08	0.8	6.4	6.4		6.4	7.0	880			<2	0.5	4.5	3.2		3.3	6.8	880			<2
03/31/08	0.6	6.1				7.0	875			<2	0.5	4.7	3.0		3.1	6.9	890			<2
Avg	1.0	6.5	6.4	7.2	6.4	7.0	843	543	145	<2	0.2	4.8	2.9	2.5	3.0	6.8	773	450	137	<2
Min	0.6	6.1	4.4	6.0	4.4	6.9	815	524	145	<2	0.1	4.0	1.7	1.7	1.8	6.7	725	438	137	<2
Max	1.5	6.9	7.9	8.2	7.9	7.2	880	560	145	4	0.5	5.0	4.4	3.7	4.5	6.9	890	464	137	<2

Note: Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA0105279, Order No. R8-2006-0010.

TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date.

*TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

LA: Lab Accident

Table 2-2
Recycled Water Monitoring: Agency-Wide Flow-Weighted TIN & TDS
(Recycled Water Quality Specifications A.6)

Date	TIN		TDS	
	Monthly	12-Mo. Run Avg.	Monthly	12-Mo. Run Avg.
Apr-07	5.6	6.7	491	472
May-07	5.6	6.5	489	475
Jun-07	6.0	6.5	489	477
Jul-07	5.1	6.3	492	478
Aug-07	5.2	6.3	478	479
Sep-07	5.9	6.2	478	480
Oct-07	6.0	6.2	517	485
Nov-07	7.6	6.2	514	490
Dec-07	7.4	6.3	522	494
Jan-08	6.8	6.2	511	481
Feb-08	6.4	6.2	492	483
Mar-08	6.6	6.2	515	484
Limit		8.0		550

Table 2-3
Recycled Water Monitoring: Recycled Water Quality Specifications A.1, A.2, A.3, & A.15

Constituent	2Q07	3Q07	4Q07	1Q08	4Q Run.			Method
					Avg.	Limit	Unit	
Inorganic Chemicals								
Aluminum	<25	<25	27	<25	<25	1000	µg/L	EPA 200.8
Antimony	0.8	0.5	<0.5	<1	0.7	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.2	<0.6	<0.2	<1.8	<0.7	7	MFL	EPA 100.2
Barium	18	14	6	9	12	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	2.1	4.5	3.2	2.9	3.2	50	µg/L	EPA 200.8
Cyanide	<5	<6	<6	<5	<6	150	µg/L	SM 4500-CN E
Fluoride	0.3	0.3	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.2	<0.2	<0.2	<0.2	<0.2	2	µg/L	EPA 245.2
Nickel	2	3	2	3	2	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<10	<6	6	µg/L	EPA 314
Selenium	<2	2	2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<1	<0.5	<0.5 ¹	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<1	<0.5	<0.5 ¹	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<1	<0.5	<0.5 ¹	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<1	<0.5	<0.5 ¹	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<1	<0.5	<0.5 ¹	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<1	<0.5	<0.5 ¹	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	NA	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<1	<0.5	<0.5 ¹	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<1	<0.5	<0.5 ¹	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<1	<0.5	<0.5 ¹	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<1	<0.5	<0.5 ¹	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	NA	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	NA	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<1	<0.5	<0.5 ¹	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<1	0.5	<0.5 ¹	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	NA	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<1	<0.5	<0.5 ¹	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<1	<0.5	<0.5 ¹	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<1	<0.5	<0.5 ¹	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<2	<0.5	<0.5 ¹	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	NA	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.3	<0.3	<1	<0.3	<0.3 ¹	0.5	µg/L	EPA 524.2
m,p-Xylene	<1	<1	NA	<1	<1	1750 ²	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	NA	<0.5	<0.5		µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	3	5	<1	<1	2	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<20	<20	<13	100	µg/L	EPA 548.1

Table 2-3
Recycled Water Monitoring: Recycled Water Quality Specifications A.1, A.2, A.3, & A.15

Constituent	4Q Run.							Method
	2Q07	3Q07	4Q07	1Q08	Avg.	Limit	Unit	
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	0.07	<0.05	<0.05	<0.06	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	11.8	5.06	3.9	13.6	8.6	1300	µg/L	EPA 200.8
Lead	0.5	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	<0.618	<0.670	<0.710	<1.0	<0.750	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0
Tritium	<194	<190	<198	<196	<195	20,000	pCi/L	EPA 906
Strontium-90	<0.688	<0.640	<0.670	<0.700	<0.675	8	pCi/L	EPA 905
Gross Beta Particle Activity	13	6.9	8	10	9	50	pCi/L	EPA 900.0
Uranium	<0.7	<0.7	<0.7	<0.7	<0.7	20	pCi/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals								
Aluminum	<25	<25	27	<25	<25	200	µg/L	EPA 200.8
Copper	11.8	5.06	3.9	13.6	8.6	1000	µg/L	EPA 200.8
Corrosivity ³	-0.3	-0.3	0.7	<0.1	0.1	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ³	0.14	<0.05	0.12	<0.05	0.09	500	µg/L	S5540C/EPA 425.1
Iron ³	84	79	65	110	85	300	µg/L	EPA 200.7
Manganese	7	7	1	9	6	50	µg/L	EPA 200.8
Methyl-tert-butyl ether (MTBE) ³	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Odor--Threshold ³	2	8	4	8	6	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 525.2
Zinc	75	38	24	55	48	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁴	2	2	1	3		1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<5	<5	<5	<5	<5	10	µg/L	EPA 300.1
Chlorite	<0.02	<0.01	0.05	<0.01	<0.02	1	mg/L	EPA 300.0
Lysimeter Compliance Point Data	HE-25	HE-25	8th-25	8th-15				
Total Trihalomethanes (TTHMs)	16	129	16	6.5	42	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<1	3.4	2.9	<1	1.6	60	µg/L	S6251B

NA: Not Analyzed this quarter

¹ For VOCs with varying DLs, 4-quarter running average is calculated based on ND values equal to half the detection limit.

² The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

³ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually.

⁴ Oil & Grease compliance determination not based on 4-quarter running average

Bold signifies an exceedance of a limit in the Order.

Table 2-4
Recycled Water Monitoring: Table II. Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals
(Monitoring & Reporting Program)

Constituent	1Q08	Unit	Method	
Metals				
Chromium (III) ¹	2.9	µg/L	EPA 200.8	
Volatile Organic Chemicals (VOCs)				
Acrolein	<2	µg/L	EPA 624	
Acrylonitrile	<2	µg/L	EPA 624	
Bromoform	0.6	µg/L	EPA 524.2	
Chlorodibromomethane	6.1	µg/L	EPA 524.2	
Chloroethane	<0.5	µg/L	EPA 524.2	
2-Chloroethylvinylether	<1	µg/L	EPA 624	
Chloroform	98	mg/L	EPA 524.2	
Dichlorobromomethane	27	µg/L	EPA 524.2	
Methyl Bromide	<0.5	µg/L	EPA 524.2	
Methyl Chloride	<0.5	µg/L	EPA 524.2	
Acid Extractables				
2-Chlorophenol	<1	µg/L	EPA 625	
2,4-Dichlorophenol	<2	µg/L	EPA 625	
2,4-Dimethylphenol	<1	µg/L	EPA 625	
2-Methyl-4,6-dinitrophenol	<2	µg/L	EPA 625	
2,4-Dinitrophenol	<3	µg/L	EPA 625	
2-Nitrophenol	<1	µg/L	EPA 625	
4-Nitrophenol	<3	µg/L	EPA 625	
4-Chloro-3-methylphenol	<1	µg/L	EPA 625	
Phenol	<1	µg/L	EPA 625	
2,4,6-Trichlorophenol	<1	µg/L	EPA 625	
Base/Neutral Extractables				
Acenaphthene	<1	µg/L	EPA 625	
Acenaphthylene	<1	µg/L	EPA 625	
Anthracene	<1	µg/L	EPA 625	
Benzidine	<5	µg/L	EPA 625	
Benzo(a)anthracene	<5	µg/L	EPA 625	
Benzo(b)fluoranthene	<1	µg/L	EPA 625	
Benzo(g,h,i)perylene	<2	µg/L	EPA 625	
Benzo(k)fluoranthene	<1	µg/L	EPA 625	
Bis(2-chloroethoxy)methane	<2	µg/L	EPA 625	
Bis(2-chloroethyl)ether	<1	µg/L	EPA 625	
Bis(2-chloroisopropyl)ether	<1	µg/L	EPA 625	
4-Bromophenyl phenyl ether	<1	µg/L	EPA 625	
Butyl benzyl phthalate	<1	µg/L	EPA 625	
2-Chloronaphthalene	<1	µg/L	EPA 625	
4-Chlorophenyl phenyl ether	<1	µg/L	EPA 625	
Chrysene	<1	µg/L	EPA 625	
Dibenzo(a,h)anthracene	<1	µg/L	EPA 625	
1,3-Dichlorobenzene	<1	µg/L	EPA 625	
3,3-Dichlorobenzidine	<5	µg/L	EPA 625	
Diethyl phthalate	<2	µg/L	EPA 625	
Dimethyl phthalate	<1	µg/L	EPA 625	
Di-n-butyl phthalate	<1	µg/L	EPA 625	
2,4-Dinitrotoluene	<1	µg/L	EPA 625	
2,6-Dinitrotoluene	<2	µg/L	EPA 625	
Di-n-octyl phthalate	<1	µg/L	EPA 625	
Azobenzene	<1	µg/L	EPA 625	
Fluoranthene	<1	µg/L	EPA 625	
Fluorene	<1	µg/L	EPA 625	
Hexachlorobutadiene	<1	µg/L	EPA 625	
Hexachlorocyclopentadiene	<5	µg/L	EPA 625	
Hexachloroethane	<1	µg/L	EPA 625	
Indeno(1,2,3-cd)pyrene	<2	µg/L	EPA 625	
Isophorone	<1	µg/L	EPA 625	
Naphthalene	<1	µg/L	EPA 625	
Nitrobenzene	<1	µg/L	EPA 625	
N-Nitroso-di-n-propylamine	<1	µg/L	EPA 625	
N-Nitrosodiphenylamine	<1	µg/L	EPA 625	
Phenanthrene	<1	µg/L	EPA 625	
Pyrene	<1	µg/L	EPA 625	
Pesticides				
Aldrin	<0.005	µg/L	EPA 608	
BHC, alpha isomer	<0.01	µg/L	EPA 608	
BHC, beta isomer	<0.005	µg/L	EPA 608	
BHC, delta isomer	<0.007	µg/L	EPA 608	
4,4'-DDT	<0.01	µg/L	EPA 608	
4,4'-DDE	<0.01	µg/L	EPA 608	
4,4'-DDD	<0.01	µg/L	EPA 608	
Dieldrin	<0.01	µg/L	EPA 608	
Endosulfan I	<0.01	µg/L	EPA 608	
Endosulfan II	<0.01	µg/L	EPA 608	
Endosulfan Sulfate	<0.01	µg/L	EPA 608	
Endrin Aldehyde	<0.01	µg/L	EPA 608	
Unregulated Chemicals				
Boron	0.3	mg/L	EPA 200.7	
Chromium VI	0.4	µg/L	EPA 218.6	
Dichlorodifluoromethane	<0.5	µg/L	EPA 524.2	
Ethyl tertiary butyl ether	<3	µg/L	EPA 524.2	
N-nitrosodimethylamine (NDMA)	5	ng/L	1625MOD	
Tertiary amyl methyl ether	<3	µg/L	EPA 524.2	
Tertiary butyl alcohol	<3	µg/L	542.2 MOD	
Vanadium	3	µg/L	EPA 200.8	
1,4 - Dioxane	<2	µg/L	8270MOD	
1,2,3-Trichloropropane	<0.5	µg/L	EPA 524.2	
Chemicals w/ State Notification Levels ²				
n-butylbenzene	<0.5	µg/L	EPA 524.2	
sec-butylbenzene	<0.5	µg/L	EPA 524.2	
tert-butylbenzene	<0.5	µg/L	EPA 524.2	
Carbon disulfide	<0.5	µg/L	EPA 524.2	
Chlorate	198	µg/L	EPA 300.0	
2-Chlorotoluene	<0.5	µg/L	EPA 524.2	
Diazinon	<0.1	µg/L	EPA 525.2	
Formaldehyde	<5	µg/L	SM 6252/EPA 8315	
Isopropylbenzene	<0.5	µg/L	EPA 524.2	
N-propylbenzene	<0.5	µg/L	EPA 524.2	
1,2,4 -trimethylbenzene	<0.5	µg/L	EPA 524.2	
1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2	
N-Nitrosodiethylamine (NDEA)	<2	µg/L	EPA 525	
N-Nitrosopyrrolidine	<2	µg/L	EPA 525	
Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals ²				
Hormones				
Ethynodiol diol	<5 / <22	ng/L	HPLC/MS-SEDC	
17-B estradiol	<1 / <22	ng/L	HPLC/MS-SEDC	
Estrone	2.6 / <11	ng/L	HPLC/MS-SEDC	
"Industrial" Endocrine Disruptors				
Bisphenol A	<110	ng/L	HPLC/MS-SEDC	
Nonylphenol and nonylphenol polyethoxylate	ng/L	HPLC/MS-SEDC		
Octylphenol and octylphenol polyethoxylate	ng/L	HPLC/MS-SEDC		
Polybrominated Diphenyl Ether (PBDE)	<0.99	ng/L	8270C SIM	
PBDE 28	<0.99	ng/L	8270C SIM	
PBDE 71	<0.99	ng/L	8270C SIM	
PBDE 47	<2	ng/L	8270C SIM	
PBDE 66	<0.99	ng/L	8270C SIM	
PBDE 100	<0.99	ng/L	8270C SIM	
PBDE 99	<2	ng/L	8270C SIM	
PBDE 85	<0.99	ng/L	8270C SIM	
PBDE 154	<0.99	ng/L	8270C SIM	
PBDE 153	<0.99	ng/L	8270C SIM	
PBDE 138	<0.99	ng/L	8270C SIM	
PBDE 128	<0.99	ng/L	8270C SIM	
PBDE 183	<0.99	ng/L	8270C SIM	
PBDE 190	<0.99	ng/L	8270C SIM	
PBDE 203	<0.99	ng/L	8270C SIM	
PBDE 206	<99	ng/L	8270C SIM	
PBDE 209	<99	ng/L	8270C SIM	
Pharmaceuticals & Other Substances				
Acetaminopen	<1 / <10	ng/L	HPLC/MS-SEDC	
Amoxicillin	NR		Not Available ³	
Azithromycin	NR		Not Available ³	
Caffeine	3.2 / 53	ng/L	HPLC/MS-SEDC	
Carbamazepine	125 / 130	ng/L	HPLC/MS-SEDC	
Ciprofloxacin	NR		Not Available ³	
Ethylenediamine tetra-acetic acid (EDTA)	<100		EPA 300.0MOD	
Gemfibrozil	3.1 / <11	ng/L	HPLC/MS-SEDC	
Ibuprofen	2.4 / <110	ng/L	HPLC/MS-SEDC	
Iodinated contrast media	58 / 190	ng/L	HPLC/MS-SEDC	
Lipitor	NR		Not Available ³	
Methadone	<53	ng/L	HPLC/MS-SEDC	
Morphine	NR		Not Available ³	
Salicylic acid	<110	ng/L	HPLC/MS-SEDC	
Triclosan	18 / <110	ng/L	HPLC/MS-SEDC	

NR: Not Required (Annual Requirement)

¹ Trivalent chromium is measured as total chromium

² Chemicals w/ State Notification Levels, Nitrosamines, and EDC, Pharmaceuticals & Other Chemicals (Attachment B) were sampled in February 2008 (annual requirement).

MWH Lab Data for EDCs is italicized and green

CAS Lab Data for EDGs is underlined and blue

³ Analytical Method is not available for this constituent

Table 2-5
Lysimeter and Surface Water Monitoring: TOC, Nitrogen Species, and EC

8th Street Basin									
Site	Depth, bgs	Date	TOC	TN	EC	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit=>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
8TH-00	0	01/03/08	6.67	1.9	295	1.4	<0.1	1.9	0.10
8TH-00	0	01/08/08	4.60	1.1	45	0.3	0.2	0.9	0.01
8TH-00	0	01/15/08	6.78	1.6	105	0.4	0.3	1.3	0.03
8TH-00	0	01/23/08	9.38	2.2	425	0.7	<0.1	2.2	0.03
8TH-00	0	01/29/08	2.71	<0.6	480	<0.2	0.2	<0.5	0.04
8TH-00	0	02/05/08	4.47	1.0	60	0.3	0.2	0.7	0.04
8TH-00	0	02/12/08	6.53	2.9	700	1.5	1.5	1.5	0.05
8TH-00	0	02/20/08	8.56	6.4	730	5.2	4.9	1.6	0.03
8TH-00	0	02/26/08	6.44	2.9	543	1.9	1.8	1.1	0.02
8TH-00	0	03/04/08	5.36	3.5	760	2.5	2.5	1.0	<0.01
8TH-00	0	03/11/08	6.07	3.6	735	1.5	1.4	2.2	0.07
8TH-00	0	03/19/08	6.94	2.5	740	2.0	1.9	0.7	0.04
8TH-00	0	03/20/08	6.81		750	1.6	1.4		0.03
8TH-00	0	03/24/08	3.36		675		0.3		
8TH-00	0	03/26/08	6.45	1.1	760	0.7	0.5	0.6	<0.01
8TH-05	5	01/03/08	3.50	<0.6	240	0.7	<0.1	<0.5	0.09
8TH-05	5	01/08/08	3.18	<0.6	235	0.2	0.2	<0.5	0.05
8TH-05	5	01/15/08	2.61	1.1	230	1.0	1.0	<0.5	0.05
8TH-05	5	01/23/08	2.47	<0.6	220	0.4	0.3	<0.5	0.06
8TH-05	5	01/29/08	2.07	0.9	220	0.8	0.7	<0.5	0.07
8TH-05	5	02/05/08	1.90	1.4	230	1.2	1.1	<0.5	0.07
8TH-05	5	02/12/08	1.71	1.0	210	0.4	0.3	0.6	0.06
8TH-05	5	02/20/08	1.68	0.9	235	0.5	0.4	0.5	0.06
8TH-05	5	02/26/08	1.46	1.0	380	0.5	0.5	0.5	<0.01
8TH-05	5	03/04/08	1.46	0.9	395	0.8	0.8	<0.5	0.06
8TH-05	5	03/11/08	2.14	<0.6	495	0.4	0.4	<0.5	<0.01
8TH-05	5	03/19/08	2.37	<0.6	575	0.4	0.4	<0.5	0.01
8TH-05	5	03/26/08	2.49	<0.6	660	0.3	0.3	<0.5	<0.01
8TH-15	15	01/03/08	17.86	<0.6	710	<0.2	<0.1	<0.5	0.05
8TH-15	15	01/08/08	8.27	<0.6	490	0.3	0.3	<0.5	0.02
8TH-15	15	01/15/08	2.68	<0.6	485	0.4	0.3	<0.5	0.03
8TH-15	15	01/23/08	8.18	<0.6	650	0.3	0.2	<0.5	0.05
8TH-15	15	01/29/08	6.34	0.7	470	0.4	0.4	<0.5	0.06
8TH-15	15	02/05/08	4.41	<0.6	405	0.3	0.3	<0.5	0.05
8TH-15	15	02/12/08		<0.6	670	0.2	0.1	<0.5	0.05
8TH-15	15	02/20/08	2.20	1.2	705	0.9	0.8	<0.5	0.04
8TH-15	15	02/26/08	2.39	0.9	770	0.9	0.8	<0.5	<0.01
8TH-15	15	03/04/08	1.99	<0.6	560	0.4	0.4	<0.5	0.04
8TH-15	15	03/11/08	3.76	<0.6	620	0.3	0.3	<0.5	<0.01
8TH-15	15	03/19/08	3.23	<0.6	605	0.4	0.4	<0.5	0.02
8TH-15	15	03/26/08	3.76	<0.6	600	<0.2	0.1	<0.5	0.01
8TH-25	25	01/03/08	6.99	0.6	465	0.2	0.1	0.5	0.08
8TH-25	25	01/08/08	6.10	<0.6	220	0.2	0.2	<0.5	0.05
8TH-25	25	01/15/08	3.68	0.8	220	0.2	0.1	0.7	0.05
8TH-25	25	01/23/08	8.21	<0.6	330	<0.2	<0.1	<0.5	0.03
8TH-25	25	01/29/08	3.00	1.6	225	0.3	0.2	1.4	0.09
8TH-25	25	02/05/08	3.59	<0.6	215	<0.2	<0.1	<0.5	0.07
8TH-25	25	02/12/08	3.03	0.6	205	<0.2	<0.1	0.6	0.07
8TH-25	25	02/20/08	3.64	<0.6	240	<0.2	0.1	<0.5	0.06
8TH-25	25	02/26/08	3.04	<0.6	430	0.4	0.4	<0.5	<0.01
8TH-25	25	03/04/08	2.55	0.6	480	0.2	0.2	<0.5	0.02
8TH-25	25	03/11/08	2.74	<0.6	625	<0.2	<0.1	<0.5	<0.01
8TH-25	25	03/19/08	3.35	<0.6	710	<0.2	<0.1	<0.5	<0.01
8TH-25	25	03/26/08	3.29	<0.6	750	<0.2	<0.1	<0.5	<0.01
8TH-35	25	01/03/08	18.14	<0.6	400	<0.2	<0.1	<0.5	0.10
8TH-35	25	01/08/08	22.68	<0.6	380	<0.2	<0.1	<0.5	0.06
8TH-35	25	01/15/08	18.28	<0.6	310	<0.2	<0.1	0.5	0.06
8TH-35	35	01/23/08	44.25	<0.6	300	<0.2	<0.1	<0.5	0.07
8TH-35	35	01/29/08	9.39	<0.6	285	<0.2	<0.1	<0.5	0.10
8TH-35	35	02/05/08	8.44	0.6	260	<0.2	<0.1	0.6	0.08
8TH-35	35	02/12/08	3.27	0.9	270	0.2	0.2	0.6	<0.01
8TH-35	35	02/20/08	5.45	0.6	260	<0.2	<0.1	0.6	0.08
8TH-35	35	02/26/08	5.57	<0.6	250	<0.2	<0.1	<0.5	<0.01
8TH-35	35	03/04/08	2.33	<0.6	365	<0.2	<0.1	<0.5	0.04
8TH-35	35	03/11/08	3.10	<0.6	425	<0.2	<0.1	<0.5	<0.01
8TH-35	35	03/19/08	1.89	<0.6	575	<0.2	<0.1	<0.5	<0.01
8TH-35	35	03/26/08	2.72	<0.6	690	<0.2	<0.1	<0.5	<0.01

Blank cells indicate that analysis was not run for a constituent on that particular date and/or depth due to insufficient volume

Table 2-5
Lysimeter and Surface Water Monitoring: TOC, Nitrogen Species, and EC

Hickory Basin East Cell									
Site	Depth, bgs	Date	TOC	TN	EC	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
HKE-0	0	02/20/08	5.93	6.5	745	5.1	4.9	1.6	0.11
HKE-0	0	02/26/08	4.69	1.0	165	0.2	0.2	0.8	0.01
HKE-0	0	03/04/08	5.04	4.4	750	3.6	3.6	0.8	<0.01
HKE-0	0	03/11/08	5.83	3.6	770	3.0	3.0	0.6	<0.01
HKE-0	0	03/19/08	7.16	1.4	810	0.5	0.5	0.9	0.03
HKE-0	0	03/20/08	6.70		790	2.1	2.0		<0.01
HKE-25	25	02/20/08	1.19	4.7	490	4.5	4.5	<0.5	<0.01
HKE-25	25	02/26/08	0.75	3.9	440	3.9	3.9	<0.5	<0.01
HKE-25	25	03/04/08	0.74	1.9	440	1.5	1.5	<0.5	0.03
HKE-25	25	03/11/08	1.66	3.4	675	3.3	3.3	<0.5	<0.01
HKE-25	25	03/19/08	2.22	3.4	760	3.0	3.0	<0.5	<0.01
HKE-25	25	03/26/08	1.75	3.3	780	3.5	3.5	<0.5	<0.01

Ely Basin No. 3									
Site	Depth, bgs	Date	TOC	TN	EC	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N
Unit==>	feet		mg/L	mg/L	µmho/cm	mg/L	mg/L	mg/L	mg/L
ELY3E-00	0	03/19/08	5.33	2.9	280	2.0	1.7	1.2	0.05
ELY3E-00	0	03/26/08	7.20	3.1	430	1.9	1.9	1.2	0.04
ELY3E-10	10	03/19/08	2.52	2.9	185	2.6	2.5	<0.5	0.06
ELY3E-10	10	03/26/08	2.25	2.2	185	2.1	2.1	<0.5	0.05
ELY3E-25	25	03/19/08	4.45	0.7	335	0.2	0.1	0.6	0.04
ELY3E-25	25	03/26/08	3.14	<0.6	295	0.3	0.1	<0.5	0.05

Blank cells indicate that analysis was not run for a constituent on that particular date and/or depth due to insufficient volume

Table 2-6
Diluent Water Monitoring Results (Stormwater)

Constituent	Banana Basin	San Sevaine Basin 1	Declez Basin Cell 2	Unit	Method
NO ₂ -N	0.04	0.04	0.05	mg/L	EPA 300.0
NO ₃ -N	0.4	0.8	0.8	mg/L	EPA 300.0
TDS	50	116	68	mg/L	SM 2540C
Total Coliform	>2300	>2300	>2300	mpn/100ml	SM 9221B
Oil & Grease	4	3	4	mg/L	EPA 1664A
Inorganic Chemicals					
Aluminum	1080	1152	2050	µg/L	EPA 200.7
Antimony	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	<2	µg/L	EPA 200.8
Asbestos	<6.73	<6.42	<6.73	MFL	EPA 100.2
Barium	22	34	27	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	µg/L	EPA 200.7
Chromium	4.7	3.8	6.2	µg/L	EPA 200.7
Cyanide	<6	<5	<6	µg/L	SM 4500-CN E
Fluoride	0.1	0.1	0.1	mg/L	SM 4500-F C
Mercury	<0.2	<0.5	<0.2	µg/L	EPA 245.2
Nickel	6	2	3	µg/L	EPA 200.7
Perchlorate	<8	<20	<8	µg/L	EPA 314
Selenium	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)					
Benzene	NA	NA	NA	µg/L	EPA 524.2
Carbon Tetrachloride	NA	NA	NA	µg/L	EPA 524.2
1,2-Dichlorobenzene	NA	NA	NA	µg/L	EPA 524.2
1,4-Dichlorobenzene	NA	NA	NA	µg/L	EPA 524.2
1,1-Dichloroethane	NA	NA	NA	µg/L	EPA 524.2
1,2-Dichloroethane	NA	NA	NA	µg/L	EPA 524.2
1,1-Dichloroethylene	NA	NA	NA	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	NA	NA	NA	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	NA	NA	NA	µg/L	EPA 524.2
Dichloromethane	NA	NA	NA	µg/L	EPA 524.2
1,2-Dichloropropane	NA	NA	NA	µg/L	EPA 524.2
1,3-Dichloropropene	NA	NA	NA	µg/L	EPA 524.2
Ethylbenzene	NA	NA	NA	µg/L	EPA 524.2
Chlorobenzene	NA	NA	NA	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	NA	NA	NA	µg/L	EPA 524.2
Styrene	NA	NA	NA	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	NA	NA	NA	µg/L	EPA 524.2
Tetrachloroethylene	NA	NA	NA	µg/L	EPA 524.2
Toluene	NA	NA	NA	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	NA	NA	NA	µg/L	EPA 524.2
1,1,1-Trichloroethane	NA	NA	NA	µg/L	EPA 524.2
1,1,2-Trichloroethane	NA	NA	NA	µg/L	EPA 524.2
Trichloroethylene	NA	NA	NA	µg/L	EPA 524.2
Trichlorofluoromethane	NA	NA	NA	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	µg/L	EPA 524.2
Vinyl Chloride	NA	NA	NA	µg/L	EPA 524.2
Total Xylenes	NA	NA	NA	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)					
Alachlor (Alanex)	<0.1	<0.1	<0.1	µg/L	EPA 505
Atrazine	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	µg/L	EPA 515.4
Benzo(a)pyrene	0.08	<0.02	<0.02	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	µg/L	EPA 505
2,4-D	0.21	0.28	0.23	µg/L	EPA 515.4
Dalapon	<1	<1	<1	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	1.8	<0.6	<0.6	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	µg/L	EPA 549.2
Endothall	<5	<20	<20	µg/L	EPA 548.1

Table 2-6
Diluent Water Monitoring Results (Stormwater)

Constituent	Banana Basin	San Sevaine Basin 1	Declez Basin Cell 2	Unit	Method
Endrin	<0.01	<0.01	<0.01	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	µg/L	EPA 531.2
Pentachlorophenol	0.43	<0.04	0.2	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	µg/L	EPA 515.4
Disinfection Byproducts					
Total Trihalomethanes (TTHMs)	NA	NA	NA	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<1	3.2	<1	µg/L	S6251B
Bromate	<5	NA	<5	µg/L	EPA 300.1
Chlorite	<0.01	<0.01	<0.01	mg/L	EPA 300.0
Notification Level Chemicals					
Copper	23.7	4.3	9.4	µg/L	EPA 200.7
Lead	9.6	0.9	8.0	µg/L	EPA 200.8
Radionuclides					
Combined Radium-226 and Radium 228	<0.696	<0.674	<0.727	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	pCi/L	EPA 900.0
Tritium	<193	<188	<194	pCi/L	EPA 906
Strontium-90	1.30	<0.664	0.77	pCi/L	EPA 905
Gross Beta Particle Activity	<3	<3	<3	pCi/L	EPA 900.0
Uranium	<0.7	<0.7	<0.7	pCi/L	EPA 200.8
Unregulated Chemicals					
Boron	<0.1	<0.1	<0.1	mg/L	EPA 200.7
Chromium VI	0.6	0.5	0.8	µg/L	EPA 218.6
Dichlorodifluoromethane	NA	NA	NA	µg/L	EPA 524.2
Ethyl tertiary butyl ether	NA	NA	NA	µg/L	EPA 524.2
N-nitrosodimethylamine (NDMA)	NA	NA	NA	ng/L	1625MOD
Perchlorate	<8	<20	<8	µg/L	EPA 314
Tertiary amyl methyl ether	NA	NA	NA	µg/L	EPA 524.2
Tertiary butyl alcohol	NA	NA	NA	µg/L	542.2 MOD
Vanadium	3.0	4.1	8.2	µg/L	EPA 200.8
1,4 - Dioxane	<2	<2	<2	µg/L	8270MOD
1,2,3-Trichloropropane	NA	NA	NA	µg/L	EPA 524.2
Secondary Maximum Contaminant Level Chemicals					
Aluminum	1080	1152	2050	µg/L	EPA 200.7
Corrosivity	-1.6	-0.6	-0.9	SI	SM 2330B
Foaming Agents (MBAS)	0.056	<0.050	0.069	mg/L	S5540C/EPA 425.1
Iron	1530	1260	2930	µg/L	EPA 200.7
Manganese	60	25	83	µg/L	EPA 200.7
Odor-Threshold	8	8	8	TON	SM 2150B
Silver	0.25	0.32	<0.25	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Zinc	53	12	53	µg/L	EPA 200.7

NA: Not Analyzed. EPA Method 524.2 constituents, NDMA, and Iron were not analyzed due to lab handling error. New protocols will prevent the error in future quarters.

Table 2-7
Summary of Wells in Groundwater Monitoring Networks

BASIN	CBWM_ID	OWNER/LOCAL NAME	SEPARATION DISTANCE (feet)	SCREENED INTERVAL(S) (feet bgs)	CASING DIAMETER (inches)	STATUS	TYPE
Hickory and Banana Basins	3600573	Fontana Water Company - F37a	2240 upgradient	378-810	20	Active	Municipal
	600660	California Speedway - Infield Well	2070 downgradient	NA	NA	Active	Industrial
	3601365	California Speedway 2	2780 downgradient	451-455, 491-603, & 664-780	20	Active	Industrial
	3600371	Reliant Energy - East Well	4070 downgradient	434-467, 500-513, 553-580, 593-652, & 825-847	20	Active	Industrial
	3602267	City Of Ontario - 20	14500 downgradient	NA	20	Active	Municipal
	601001	Inland Empire Utilities Agency - BH-1/1	340 downgradient	365-405	4	Active	Monitoring
	601002	Inland Empire Utilities Agency - BH-1/2	340 downgradient	435-475	4	Active	Monitoring
Turner Basins	3601065	City Of Ontario - 19	2200 upgradient	NA	16	Active	Municipal
	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Active	Municipal
	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	Active	Municipal
	600997	Inland Empire Utilities Agency - TRN-1/1	50 downgradient	340-360	4	Active	Monitoring
	600998	Inland Empire Utilities Agency - TRN-1/2	50 downgradient	380-400	4	Active	Monitoring
	600999	Inland Empire Utilities Agency - TRN-2/1	50 downgradient	350-370	4	Active	Monitoring
	601000	Inland Empire Utilities Agency - TRN-2/2	50 downgradient	392-412	4	Active	Monitoring
7th & 8th Street Basins	3601561	San Antonio Water Company No. 12	740 downgradient	379-480, 525-563, 578-609, & 634-679	16	Inactive	Municipal
	3601772	City of Ontario No. 4	3429 downgradient	526-910	16-20	Inactive	Municipal
	--	City of Ontario No. 51	3402 downgradient	Not Yet Constructed	NA	NA	Municipal
	600493	City of Ontario No. 35	9695 downgradient	580-1020	18-36	Active	Municipal
	--	Inland Empire Utilities Agency - 8th-1/1	150 downgradient	495-535	4	Active	Monitoring
	--	Inland Empire Utilities Agency - 8th-1/2	150 downgradient	595-645	4	Active	Monitoring
	--	Inland Empire Utilities Agency - 8th-2/1	2460 downgradient	465-505	4	Active	Monitoring
Ely Basin	--	Inland Empire Utilities Agency - 8th-2/2	2460 downgradient	576-616	4	Active	Monitoring
	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	NA	Monitoring
	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	NA	Monitoring
	3600975	Riverside Drive Well (43840-CWW)	6046 downgradient	NA	NA	Active	Private Irrigation
	600134	Bishop Of San Bernardino Corp. - DOM	6500 downgradient	NA	NA	Active	Private Domestic

Notes:

NA = Data not available

CBWM ID = Chino Basin Water Master well identification number

bgs = below ground surface

Table 2-8
Groundwater Monitoring Results (Quarterly)

Sample Location		Date	TOC (mg/L)	Total Coliform (MPN/100mL)	pH	EC (µmho/cm)	TDS (mg/L)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (S)	Foaming Agents (mg/L)	Fe (µg/L)	Mn (µg/L)	MTBE (µg/L)	Odor Threshold (TON)	Ag (µg/L)	Thiobencarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	NH ₃ -N (mg/L)	NO ₂ -N (mg/L)	NO-N (mg/L)	Nitrogen, Total (mg/L)	TKN (mg/L)	Alkalinity (mg CaCO ₃ /L)	Dissolved Oxygen (mg/L)
		Banana & Hickory Basins	3600573 Fontana Water Company F37A	1/3/08	0.1 <1.1	9.14	450	298	<25	<3	1.8	0.5 <0.05	110	1	<0.5	1	<0.25	<0.2	0.18	1	15	203	18	14	<0.1	0.13	9.6	9.7	<0.5	166	4.4
Banana & Hickory Basins	600660 California Speedway Infield Well	1/7/08	0.1 <1.1	7.41	550	366	<25	<3	1.4	0.3 <0.05	20	<1	<0.5	1	<0.25	<0.2	0.24	7	19	248	22	49	<0.1	0.07	11.2	11.3	<0.5	168	4.9		
	3601365 California Speedway No. 2	1/7/08	<0.1 <1.1	7.48	365	250	<25	<3	2.2	0.2 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.19	13	9	159	18	13	<0.1	0.07	3.6	3.7	<0.5	153	4.6		
	3600371 Reliant Energy East Well	1/7/08	0.1 <1.1	7.53	345	242	<25	<3	5.0	0.0 <0.05	39	<1	<0.5	1	<0.25	<0.2	1.40	6	12	148	20	17	<0.1	0.06	5.3	5.4	<0.5	125	4.6		
	3602267 Ontario Well No. 20	10/9/07	<0.1 <1.1	7.78	340	246	<25	<3	2.9	0.3 <0.05	28	<1	<0.5	1	<0.25	<0.2	0.27	4	6	166	14	6	<0.1	<0.01	2.1	2.1	<0.5	161	8.6		
	601002 BH-1/2 Well	1/11/08	0.1 <1.1	7.63	375	242	<25	<3	0.5	0.2 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.38	19	26	164	19	24	<0.1	<0.01	3.0	3.0	<0.5	128	7.5		
	3600010 Ontario Well No. 25	1/3/08	0.2 <1.1	9.07	410	264	<25	<3	2.1	0.4 <0.05	20	<1	<0.5	1	<0.25	<0.2	0.34	2	13	179	22	17	<0.1	0.13	3.8	3.9	<0.5	169	8.3		
Turner Basins	600453 Ontario Well No. 29	1/3/08	0.1 <1.1	9.12	360	234	<25	<3	2.4	0.3 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.11	2	10	151	22	17	<0.1	0.13	3.8	3.9	<0.5	148	8.7		
	600998 T-1/2 Well	1/16/08	0.5 <1.1	7.34	555	360	36	3	3.2	0.0 <0.05	43	<1	<0.5	1	<0.25	<0.2	6.50	5	85	233	25	30	<0.1	<0.01	0.7	0.7	<0.5	130	1.5		
	600999 T-2/1 Well	1/11/08	0.4 <1.1	7.63	355	210	29	<3	1.3	-0.3 <0.05	172	<1	<0.5	1	<0.25	<0.2	1.28	4	50	139	22	14	<0.1	0.02	0.9	0.9	<0.5	83	3.6		
	601000 T-2/2 Well	1/11/08	0.4 <1.1	7.38	455	322	<25	<3	<0.5	-0.1 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.26	<1	66	190	21	19	<0.1	<0.01	0.7	0.7	<0.5	117	8.2		
	600585 Ontario Well No. 38	1/3/08	0.1 <1.1	9.06	320	194	<25	<3	2.3	0.4 <0.05	<15	<1	<0.5	1	0.33	<0.2	0.19	1	4	138	18	8	<0.1	0.14	1.0	1.1	<0.5	153	3.6		
7th & 8th St. Basins	8th Street 1/1	1/15/08	0.3 <1.1	9.17	200	134	<25	<3	0.8	0.9 <0.05	17	<1	<0.5	2	<0.25	<0.2	0.43	1	5	62	22	9	<0.1	0.05	1.4	1.5	<0.5	91	7.2		
	8th Street 1/2	1/15/08	0.1 <1.1	7.74	510	252	<25	<3	0.6	0.0 <0.05	23	<1	<0.5	1	<0.25	<0.2	1.10	2	20	188	18	17	<0.1	0.09	8.6	8.7	<0.5	151	6.8		
	8th street 2/1	1/15/08	0.2 <1.1	7.93	520	348	<25	<3	0.5	0.6 <0.05	55	<1	<0.5	3	<0.25	<0.2	0.56	1	14	218	26	38	<0.1	0.07	19.4	19.5	<0.5	137	6.7		
	8th street 2/2	1/15/08	0.1 <1.1	7.35	525	350	<25	<3	<0.5	0.0 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.29	<1	16	249	19	41	<0.1	0.07	17.2	17.3	<0.5	146	3.7		
	601003 Ely Basin MW-1 Philadelphia St.	1/10/08	0.2 <1.1	8.13	265	190	27	<3	0.7	0.2 <0.05	191	<1	<0.5	2	<0.25	<0.2	1.16	2	14	101	23	12	<0.1	0.04	1.0	1.0	<0.5	106	7.8		
Ely Basins	601004 Ely Basin MW-2 Walnut St.	1/10/08	0.3 <1.1	7.32	725	458	<25	<3	<0.5	0.3 0.06	36	<1	<0.5	1	<0.25	<0.2	0.50	<1	40	347	26	41	0.3	0.03	19.8	20.1	<0.5	211	7.2		
	Riverside Dr. (near Ely Basin)	1/10/08	<0.1 <1.1	7.39	470	320	<25	<3	<0.5	0.0 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.12	5	21	213	21	31	<0.1	0.02	7.4	7.4	<0.5	147	7.7		
	BRK-1/1 Well	1/14/08	0.2 <1.1	7.40	540	328	<25	<3	<0.5	0.2 <0.05	98	<1	<0.5	1	<0.25	<0.2	1.89	1	36	278	13	47	<0.1	0.05	9.6	9.6	<0.5	156	0.4		
Background Data	BRK-1/2 Well	1/14/08	0.3 <1.1	7.62	525	330	<25	<3	<0.5	0.4 <0.05	<15	<1	<0.5	1	<0.25	<0.2	0.22	1	16	255	15	40	<0.1	<0.01	17.2	17.2	<0.5	148	2.0		
	BRK-2/1 Well	1/14/08	0.2 <1.1	7.45	545	346	<25	<3	<0.5	0.4 <0.05	63	<1	<0.5	1	<0.25	<0.2	1.06	1	34	280	13	37	<0.1	0.07	9.3	9.4	<0.5	178	4.8		
	BRK-2/2 Well	1/14/08	2.0 <1.1	8.20	305	222	<25	<3	0.7	0.5 <0.05	<15	<1	<0.5	1	0.71	<0.2	0.43	<1	7	94	38	20	<0.1	0.08	3.4	3.5	<0.5	131	4.5		
	Declez 1	1/11/08	1.0 <1.1	7.07	350	232	54	<3	0.8	0.2 <0.05	180	<1	<0.5	3	<0.25	<0.2	2.60	2	16	129	36	19	<0.1	0.05	1.4	1.5	<0.5	149	7.9		
	RP3-1/1 Well	1/14/08	0.1 <1.1	7.64	1030	686	<25	5	1.9	0.3 <0.05	<15	<1	<0.5	3	<0.25	<0.2	0.28	1	23	363	104	68	<0.1	0.98	30.3	31.3	<0.5	350	5.2		

Blank cells indicate that analysis was not run for a constituent on that particular date

Table 3-1
Diluent & Recycled Water Recharge Volume (Acre-Feet)

Date	Diluent Water										Recycled Water				
	Imported Water					Local Runoff / Storm Flow									
	7th & 8th St.	Ely	Turner	Hickory	Banana	7th & 8th St.	Ely	Turner	Hickory	Banana	7th & 8th St.	Ely	Turner	Hickory	Banana
Apr-07	0	0	0	0	0	89	59	8	50	29	0	41	22	63	4
May-07	0	0	0	0	0	42	14	20	58	37	0	40	136	0	6
Jun-07	0	0	0	0	0	42	18	11	90	0	0	7	3	0	0
2Q07 Totals	0	0	0	0	0	173	91	68	306	133	0	88	319	126	19
Jul-07	0.0	0.0	0	0	0	16	26	5	93	0	0	0	0	141	0
Aug-07	0.0	0.0	0	0	0	16	29	48	93	0	0	0	0	78	0
Sep-07	0.0	0.0	0	0	0	17	34	16	92	3	128	0	0	15	0
3Q07 Totals	0.0	0.0	0	0	0	49	89	69	278	3	128	0	0	234	0
Oct-07	0.0	0.0	0	0	0	42	34	65	73	2	109	0	0	23	0
Nov-07	0.0	0.0	0	0	0	81	166	162	102	35	161	87	0	98	0
Dec-07	0.0	0.0	0	0	0	224	257	277	102	22	0	53	0	0	0
4Q07 Totals	0.0	0.0	0	0	0	347	457	504	277	59	270	140	0	121	0
Jan-08	0.0	0.0	0	0	0	328	793	454	126	130	1	0	0	0	0
Feb-08	0.0	0.0	0	0	0	98	233	260	97	75	157	0	0	97	0
Mar-08	0.0	0.0	0	0	0	21	82	17	44	0	164	116	0	80	0
1Q08 Totals	0.0	0.0	0	0	0	447	1108	731	267	205	322	116	0	177	0

Note: (-) Negative values indicate more water pumped from the basin than was routed to the basin.

Diluent water at Ely Basin does not include discharge of treated groundwater

Table 6-1
MVWD ASR Project - TIN/TDS Mass Balance

ASR Well No. 4										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q08	Jan-08	0			0			0	0	0
	Feb-08	0			0			0	0	0
	Mar-08	40	0.87	290	0			40	43	14,307

ASR Well No. 30										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
2Q07	Apr-07	0			0			0	0	0
	May-07	0			0			0	0	0
	Jun-07	107	0.95	270	0			107	126	35,700
3Q07	Jul-07	136	0.53	270	0			243	214	80,909
	Aug-07	71	0.53	270	0			314	261	104,598
	Sep-07	47	0.53	270	0			362	292	120,413
4Q07	Oct-07	123	0.13	310	0			484	312	167,280
	Nov-07	13	0.13	310	0			497	314	172,181
	Dec-07	67	0.13	310	0			564	324	197,792
1Q08	Jan-08	132	0.87	290	0			696	466	244,894
	Feb-08	81	0.87	290	0			777	553	273,947
	Mar-08	99	0.87	290	0			876	659	309,405

ASR Well No. 32										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
1Q08	Jan-08	0			0			0	0	0
	Feb-08	33	0.87	290	0			33	35	11,813
	Mar-08	118	0.87	290	0			151	162	54,139

The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.

During 1Q08, WFA-treated water was sampled for TDS and TIN (NO_3^- -N + NO_2^- -N, assuming no NH_3 -N in drinking water) on 01/15/08.

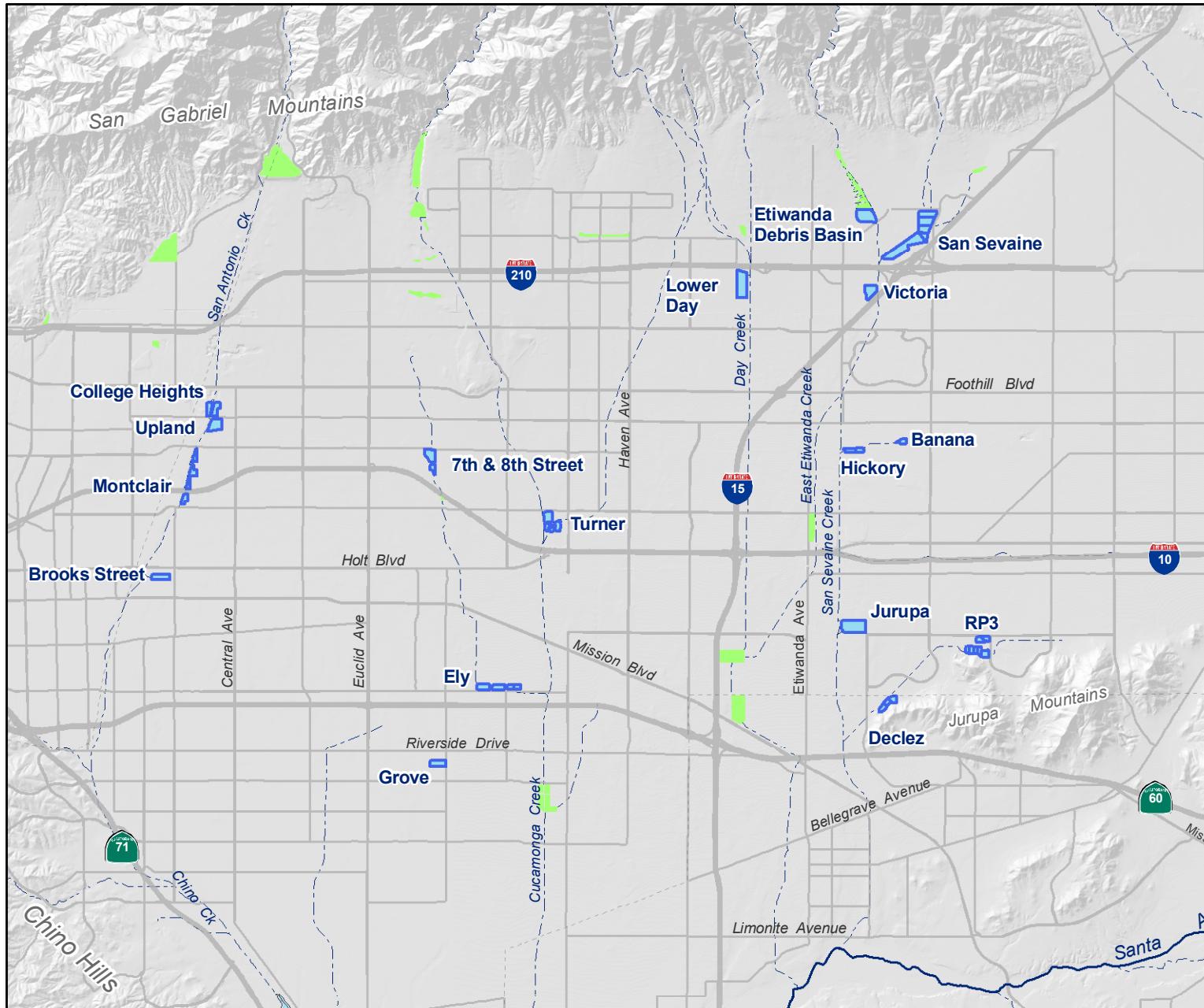
Total Project (All Wells)									
	Date	Mass Balance							
		Storage (AF)	TIN (kg)	TDS (kg)					
2Q07	Apr-07				0	0	0	0	0
	May-07				0	0	0	0	0
	Jun-07				107	126	35,700		
3Q07	Jul-07				243	214	80,909		
	Aug-07				314	261	104,598		
	Sep-07				362	292	120,413		
4Q07	Oct-07				484	312	167,280		
	Nov-07				497	314	172,181		
	Dec-07				564	324	197,792		
1Q08	Jan-08				696	466	244,894		
	Feb-08				810	588	285,760		
	Mar-08				1,067	865	377,851		

Table 7-1
WateReuse Study Results

Constituent	8th Street Basin 1/1	SAWCO Well No. 12	Unit	Method
1,1,1-Trichloroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2,4-Trimethylbenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	µg/L	ML/EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	µg/L	ML/EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	µg/L	ML/EPA 524.2
1,3,5-Trimethylbenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
1,4-Dioxane	<2	<2	µg/L	ML/SW 8270 mod
2,4,6-trichlorophenol	<5	<5	µg/L	ML/EPA625/8270
2,4-D	<0.1	<0.1	µg/L	ML/EPA 515.4
2,4-dichlorophenol	<5	<5	µg/L	ML/EPA625/8270
2,4-dinitrophenol	<50	<50	µg/L	ML/EPA625/8270
2,4-dinitrotoluene	<5	<5	µg/L	ML/EPA625/8270
2,6-dinitrotoluene	<5	<5	µg/L	ML/EPA625/8270
2-chlorotoluene	<0.5	<0.5	µg/L	ML/EPA 524.2
4-chlorotoluene	<0.5	<0.5	µg/L	ML/EPA 524.2
Alachlor	<0.05	<0.05	µg/L	ML/EPA 525.2
Aluminum	<25	<25	µg/L	EPA 200.8
Antimony	<0.5	<0.5	µg/L	EPA 200.8
Arsenic	<2	<2	µg/L	EPA 200.8
Atrazine	0.1	0.1	µg/L	ML/EPA 525.2
Barium	33	26	µg/L	EPA 200.8
Bentazon	<0.5	<0.5	µg/L	ML/EPA 515.4
Benzene	<0.5	<0.5	µg/L	ML/EPA 524.2
Benzo(a)pyrene	<0.02	<0.02	µg/L	ML/EPA 525.2
Beryllium	<0.5	<0.5	µg/L	EPA 200.8
Boron	<0.1	<0.1	mg/L	EPA 200.7
Bromate	<1	<3	µg/L	EPA 317
Butylbenzene-n	<0.5	<0.5	µg/L	ML/EPA 524.2
Butylbenzene-sec	<0.5	<0.5	µg/L	ML/EPA 524.2
Butylbenzene-tert	<0.5	<0.5	µg/L	ML/EPA 524.2
Cadmium	<0.25	<0.25	µg/L	EPA 200.8
Carbofuran	<0.5	<0.5	µg/L	ML/EPA 531.2
Carbon Disulfide	<0.5	<0.5	µg/L	ML/EPA 624
Carbon Tetrachloride	<0.5	<0.5	µg/L	ML/EPA 524.2
Chlorate	21	61	µg/L	ML/EPA 300.0
Chlordane	<0.1	<0.1	µg/L	ML/EPA 505
Chlorite	<0.01	<0.01	mg/l	ML/EPA 300.0
Chromium	2.3	2.7	µg/L	EPA 200.8
Chromium-6	0.5	1.0	µg/L	EPA 218.6
Copper	1	73	µg/L	EPA 200.8
Cyanide	NA	<0.006	mg/L	SM 4500-CN E
Dalapon	<1	<1	µg/L	ML/EPA 515.4
Diazinon	<0.1	<0.1	µg/L	ML/EPA 525.2
Dibromochloropropane (DBCP)	<0.01	<0.01	µg/L	ML/EPA 504.1
Dichlorodifluoromethane	<0.5	<0.5	µg/L	ML/EPA 524.2
Dichloromethane	<0.5	<0.5	µg/L	ML/EPA 524.2
Di(2-ethylhexyl)adipate	<0.6	<0.6	µg/L	ML/EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	µg/L	ML/EPA 525.2

Table 7-1
WateReuse Study Results

Constituent	8th Street Basin 1/1	SAWCO Well No. 12	Unit	Method
Dinoseb	<0.2	<0.2	µg/L	ML/EPA 515.4
Diquat	<0.4	<0.4	µg/L	ML/EPA 549.2
EC	200	290	µmhos/cm	SM 2510
Endothall	<5	<5	µg/L	EPA 548.1
Endrin	<0.01	<0.01	µg/L	ML/EPA 505
Ethyl tertiary butyl ether	<3	<3	µg/L	ML/EPA 524.2
Ethylbenzene	<0.5	<0.5	µg/L	ML/EPA 524.2
Ethylene Dibromide (EDB)	<0.01	<0.01	µg/L	ML/EPA 504.1
Fluoride	NA	0.3	mg/L	EPA 300.0
Formaldehyde	<5	6.1	µg/L	ML/SM 6252
Glyphosate	<6	<6	µg/L	EPA 547
Total Haloacetic Acids (HAA5)	<1	<1	µg/L	ML/S6251B
Heptachlor	<0.03	<0.03	µg/L	ML/EPA 525.2
Heptachlor Epoxide	<0.04	<0.05	µg/L	ML/EPA 525.2
Hexachlorobenzene	<0.05	<0.05	µg/L	ML/EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	µg/L	ML/EPA 525.2
Isopropylbenzene	NA	NA	µg/L	ML/EPA 524.2
Lead	<0.5	12	µg/L	EPA 200.8
Lindane	<0.01	<0.01	µg/L	ML/EPA 505
Manganese	<1	6	µg/L	EPA 200.8
Mercury	NA	<0.2	µg/L	EPA 245.2
Methoxychlor	<0.05	<0.1	µg/L	ML/EPA 505
Methyl isobutyl ketone (MIBK)	<5	<5	µg/L	ML/EPA 524.2
Methyl-tert-butyl ether (MTBE)	<0.5	<0.5	µg/L	ML/EPA 524.2
Molinate	<0.1	<0.1	µg/L	ML/EPA 525.2
Naphthalene	<0.5	<0.5	µg/L	ML/EPA 524.2
Nickel	<1	2	µg/L	EPA 200.8
Nitrate Nitrogen	1.4	2.4	mg/L	EPA 300.0
Nitrite Nitrogen	0.05	<0.01	mg/L	EPA 300.0
Nitrobenzene	<5	<5	µg/L	ML/EPA625/8270
N-nitrosodiethylamine (NDEA)	<2	<2	ng/l	ML/EPA 521
N-Nitrosodimethylamine (NDMA)	<2	<2	ng/l	ML/EPA 521
N-nitrosodi-n-propylamine (NDPA)	<2	<2	ng/l	ML/EPA 521
n-propylbenzene (isocumene)	<0.5	<0.5	µg/L	ML/EPA 524.2
Oxamyl	<0.5	<0.5	µg/L	ML/EPA 531.2
Pentachlorophenol	<0.04	<0.04	µg/L	ML/EPA 515.4
Perchlorate	<4	<4	µg/L	EPA 314
Picloram	<0.1	<0.1	µg/L	ML/EPA 515.4
Polychlorinated Biphenyls	<0.08	<0.08	µg/L	ML/EPA 505
Propachlor	<0.05	<0.05	µg/L	ML/EPA 525.2
Selenium	<2	<2	µg/L	EPA 200.8
2,4,5-TP (Silvex)	<0.2	<0.2	µg/L	ML/EPA 515.4
Simazine	0.2	<0.05	µg/L	ML/EPA 525.2
Styrene	<0.5	<0.5	µg/L	ML/EPA 524.2
Tertiary amyl methyl ether	<3	<3	µg/L	ML/EPA 524.2
Tertiary butyl alcohol	<2	<2	µg/L	ML/524.2
Tetrachloroethylene	<0.5	<0.5	µg/L	ML/EPA 524.2
Thallium	<1	<1	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2	µg/L	ML/EPA 525.2
Toluene	<0.5	<0.5	µg/L	ML/EPA 524.2
Total Nitrate/Nitrite (as N)	1.5	2.4	mg/L	EPA 300.0
Total Trihalomethanes (THM)	<0.5	<0.5	µg/L	ML/EPA 524.2
Toxaphene	<0.5	<0.5	µg/L	ML/EPA 505
Trichloroethylene	<0.5	<0.5	µg/L	ML/EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	µg/L	ML/EPA 624
Vanadium	4	4	µg/L	EPA 200.8
Vinyl Chloride	<0.3	<0.3	µg/L	ML/EPA 524.2
Xylenes	<1.5	<1.5	µg/L	ML/EPA 524.2



Chino Basin Recycled Water Groundwater Recharge Programs

Basin Locations

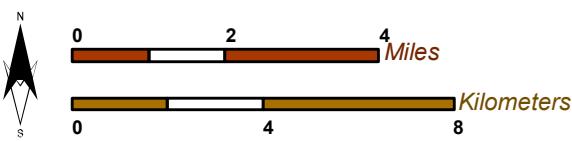


Figure 1-1

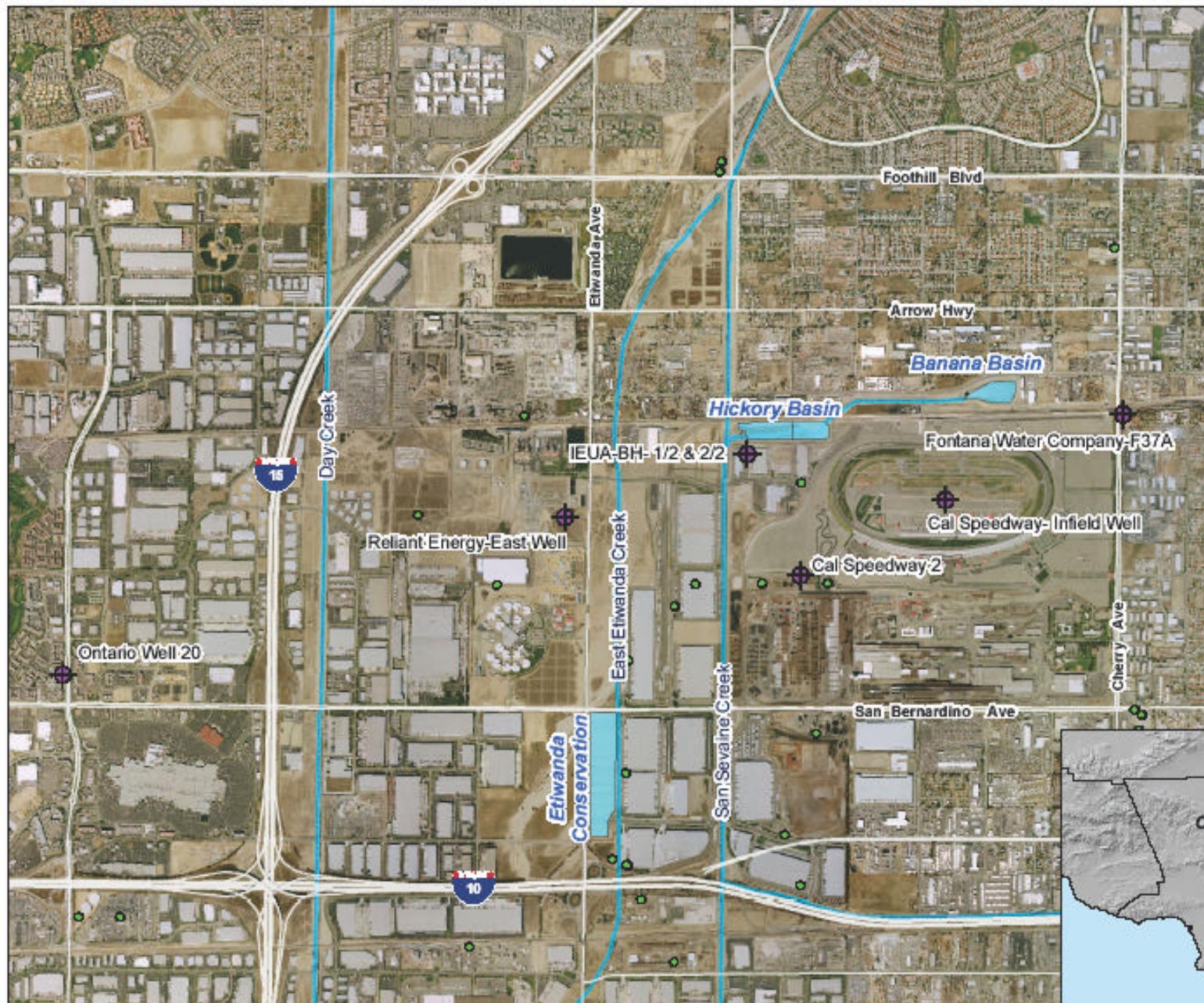
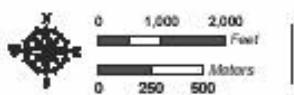


Figure 2-1

Recycled Water Recharge Program



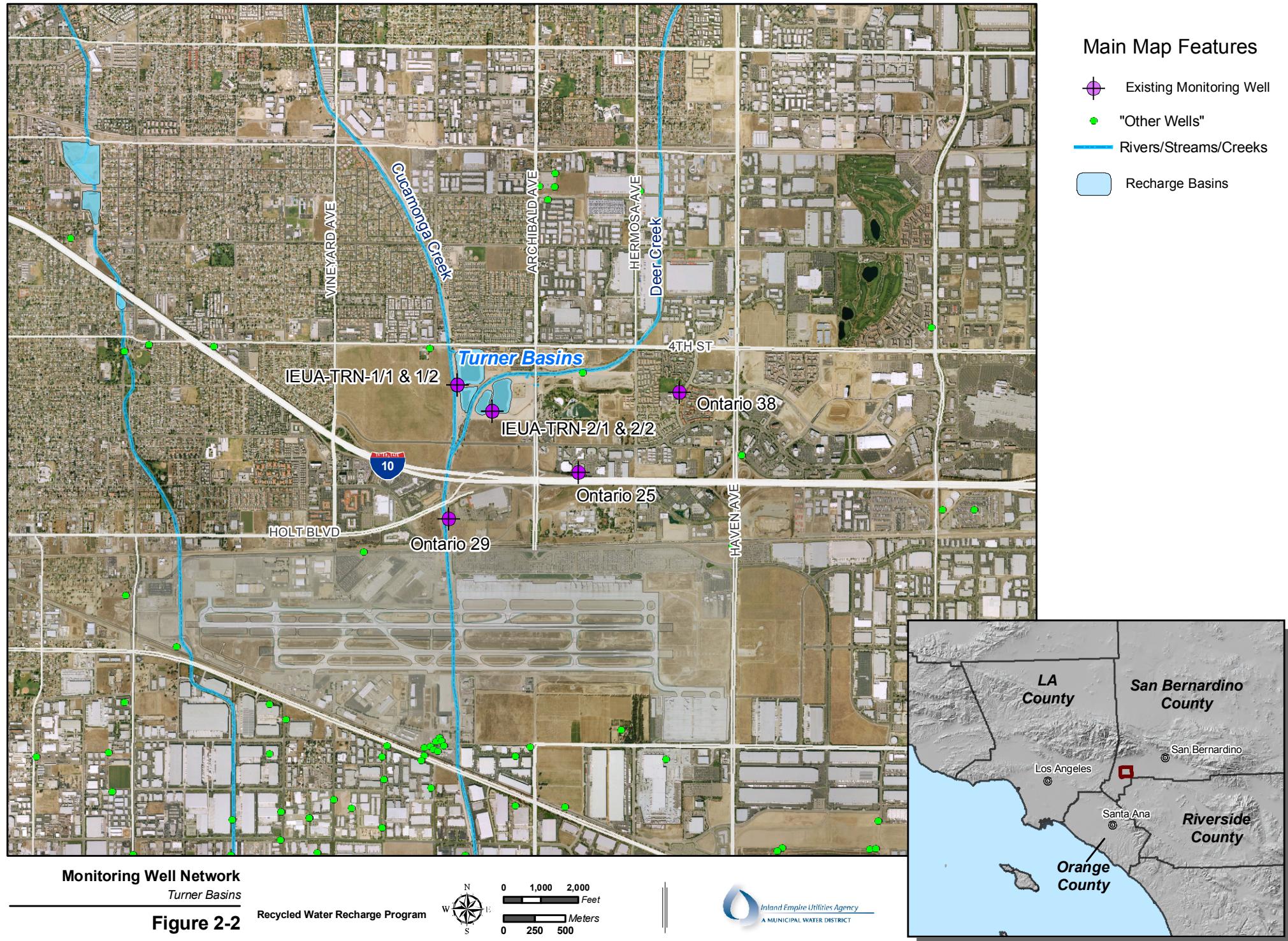


Figure 2-2

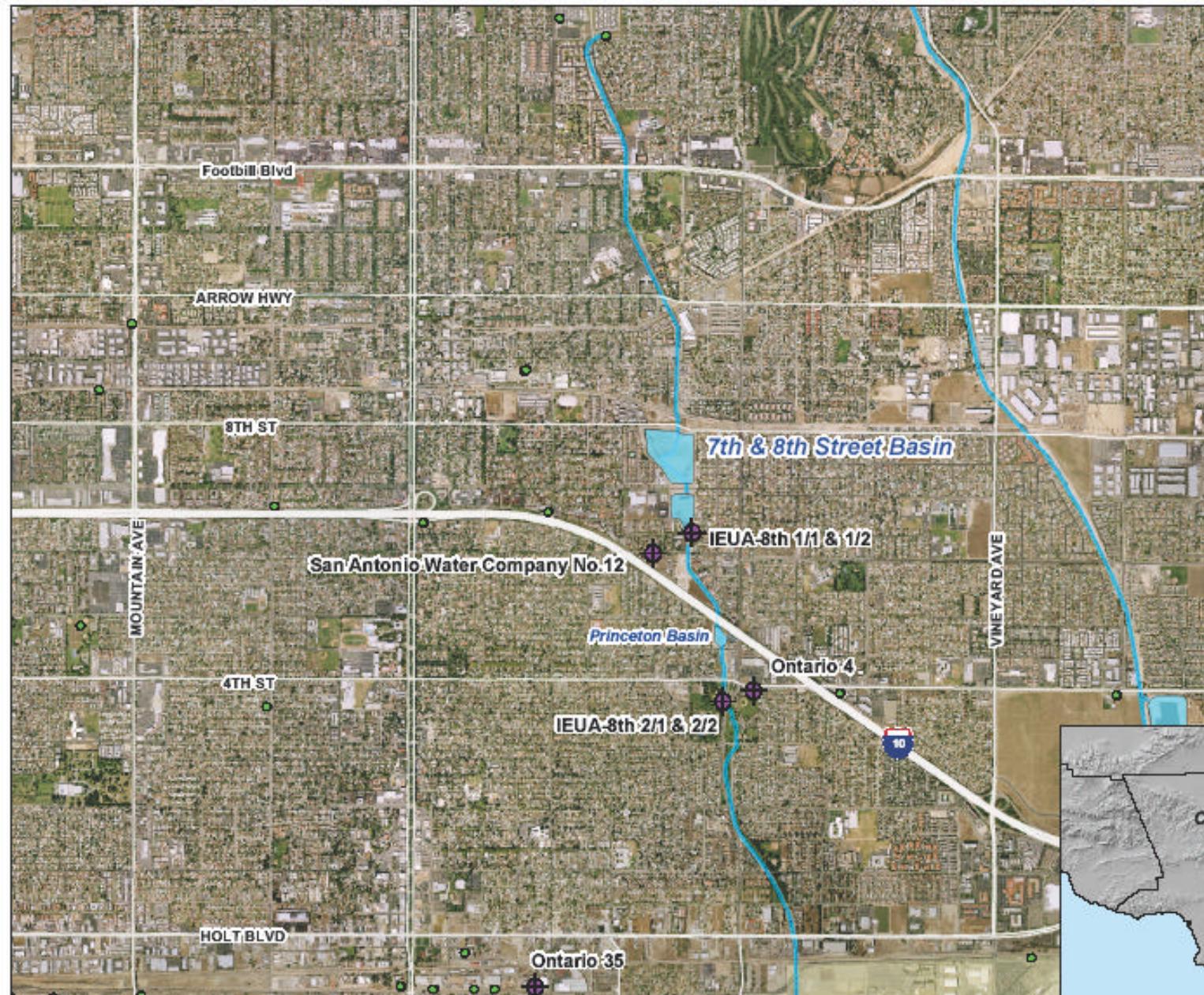
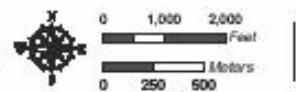
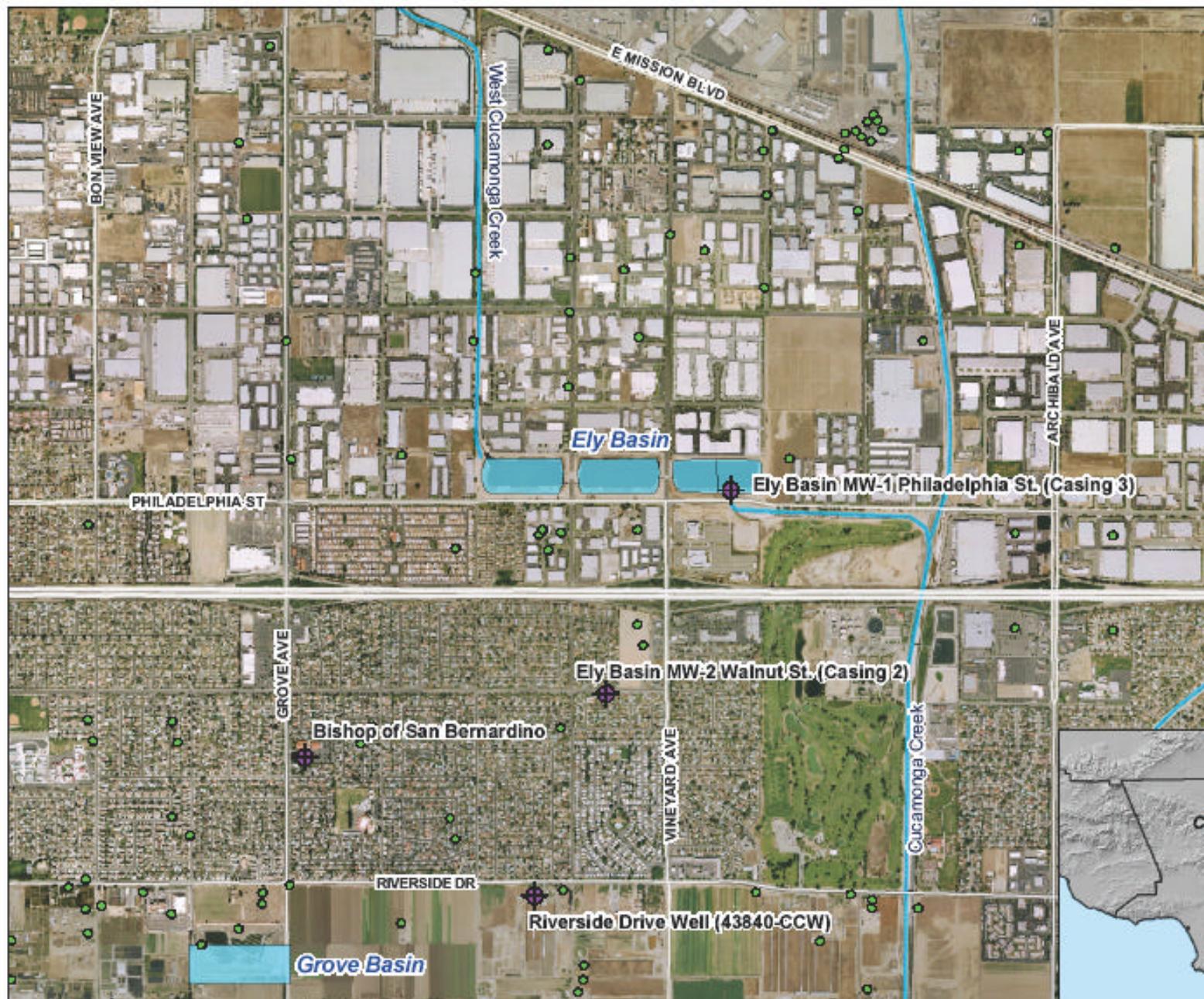


Figure 2-3

Recycled Water Recharge Program



2081198



Monitoring Well Network

Ely Basins

Recycled Water Recharge Program

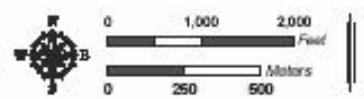


Figure 2-4

