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Executive Manager of Operations

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November 15, 2010

Regional Water Quality Control Board, Santa Ana Region

Attention: Mr. Gary Stewart

3737 Main Street, Suite 500
Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program
Quarterly Monitoring Report for July through September 2010**

Dear Mr. Stewart,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the third quarter of 2010 (3Q10), July 1 through September 30, 2010, for the *Chino Basin 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 3Q10, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order.

Chino Basin Watermaster hereby certifies that, during the period of July 1 through September 30, 2010, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time from each of the recharge sites using recycled water, namely 7th & 8th Street, Banana, Brooks, Ely, Hickory, RP-3, San Sevaine, Turner, and Victoria 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.

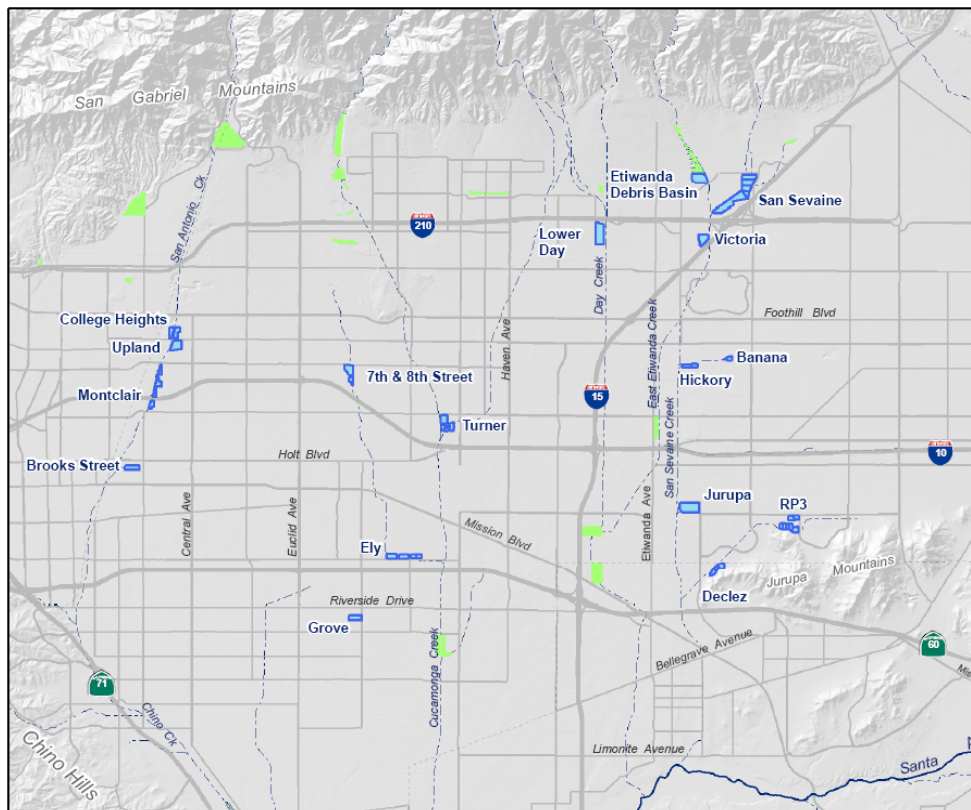
Executed on the 15th day of November 2010 in the Cities of Chino and Rancho Cucamonga.

Patrick O. Shields
Executive Manager of Operations

Kenneth R. Manning
Chief Executive Officer

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report July 1 through September 30, 2010



Prepared by:



November 15, 2010

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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 implementation 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 (Order) which prescribes the requirements for recycled water use for groundwater recharge in 13 recharge sites within the Chino North Management Zone. Chino Basin Groundwater Recharge Program Basins are presented in Figure 1-1. 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 third quarter of 2010 (3Q10).

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 buffer 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.

B. Order No. R8-2009-0057

On October 23, 2009, the Regional Board adopted Order No. R8-2009-0057, which amended the recharge permit (Order No. R8-2007-0039) by extending the previously 60-month averaging period to 120 months for determining a recharge site's recycled water contribution (RWC). The Order No. R8-2009-0057 also allowed a fraction of the groundwater underflow of the Chino Basin aquifers to be used as a source of diluent water when calculating the running average RWC.

In February 2010, the National Water Research Institute (NWRI) convened an independent expert panel to review the amendment and to evaluate if the amendment provided an equal level of public protection. The panel supported a proposed Darcian method of quantifying site specific groundwater underflow, but recommended that to be conservative (from a mixing standpoint), the fraction of the underflow used should only include the uppermost aquifer layers of higher hydraulic conductivity. The proposed methodology, assessment of groundwater underflow, and recommendations made by the expert review panel are appendices in the 2009 Chino Basin Recycled Water Groundwater Recharge Program Annual Report submitted on May 1, 2010.

C. Outline of the Quarterly Report

Section 2 of this quarterly report discusses the water quality monitoring results for recycled water recharge (water recycling plant effluent, distribution system, 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 a brief overview of the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project.

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 3Q10 data.

Recycled Water Specifications A.5 through A.9 are the narrative limits established in the permit. Corresponding monitoring data are presented in Tables 2-1 and 2-2. None of these limits were exceeded in 3Q10.

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 4Q09 through 3Q10 are summarized in Table 2-3. 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 average for compliance determination. During 3Q10, the following were not exceeded for primary MCLs for inorganic chemicals, volatile organic chemicals (VOCs), non-volatile synthetic organic chemicals (SOCs), radionuclides, and disinfection byproducts; action levels for lead and copper; secondary MCLs for required constituents; and oil and grease.

Due to the volume of sample required for analyses, IEUA has selected, and CDPH has approved, a recycled water sampling point along the distribution pipeline. IEUA selected the turnout to RRI Energy (formerly Reliant Energy) 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 (DBPs), more specifically, Total Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5). Compliance samples for these DBPs are taken from lysimeters at basins actively receiving recycled water. At these locations, DBPs have been able to break down and samples are better representative of the recycled water prior to reaching the groundwater table. Once a quarter, a single representative sample is collected from the selected compliance lysimeter and analyzed for DBPs. For the 3Q10 sampling for DBPs, IEUA chose the 25-foot below ground surface lysimeter at the RP-3 Basin as the compliance point. The RP3 lysimeter was selected as the 3Q10 compliance point because the basin received consistent recycled water recharge and recycled water was present at the 25-foot depth based on specific conductance (EC) measurements.

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. All basin and lysimeter water quality results from 3Q10 are summarized in Table 2-5a. The table includes

lysimeter data for 7th & 8th Street, Banana, Brooks, Hickory, RP-3, San Sevaine, Turner, and Victoria Basins. Declez Basin lysimeter data is also included in Table 2-5a as background data only, as recycled water delivery has not been initiated at this basin.

The Turner and Ely Basins have implemented alternative monitoring plans which include the sampling of recycled water at the RRI Energy pipeline and the application of TOC and total nitrogen (TN) correction factors for Soil-Aquifer Treatment at the basins. These correction factors were determined during each basin's start-up period. The correction factors reduce the TOC results by 70 percent for recycled water delivered to Turner cells 1 & 2, 85 percent for recycled water delivered to Turner cells 3 & 4, and 76 percent for recycled water delivered to Ely Basin. The correction factors reduce TN results by 87 percent for recycled water delivered to all four Turner cells and 52 percent for recycled water delivered to Ely Basin. Turner Basin TOC and TN values calculated based on the correction factors provided in the alternative monitoring plan are summarized in Table 2-5b. Ely Basin did not receive recycled water during 3Q10.

C. Diluent Water

For 3Q10, diluent water sampling of local runoff was conducted on September 9, 2010 for RP-3 and Hickory Basins. State Water Project water was not delivered to any of the recharge basins receiving recycled water during the monitoring period. Table 2-6 lists the results of the local runoff sampling and analyses. Details on the methods used to measure daily diluent water flow and diluent water monitoring schedule can be found in the CDPH-approved Diluent Water Monitoring Plan (Plan). The quarterly sampling schedule for stormwater and local runoff is presented in Table 4-2 of the Plan. Stormwater is sampled during the rainy season and local runoff is sampled during the dry season. Samples are collected at about half the locations during each seasonal quarter, alternating between even and odd years. Table 5-2 of the Plan summarizes the sample type and reporting frequency for the parameters listed in Tables I, II, III, and IV of the Diluent Water Monitoring requirement III.3 in the Order.

D. Groundwater Monitoring Wells

During 3Q10, 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 Turner Basin was monitored by sampling a network of six wells. The groundwater quality within the vicinity of the RP-3 Basin was monitored by sampling a network of six wells. The groundwater quality within the vicinity of the 7th & 8th Street Basin was monitored by sampling a network of five wells. The groundwater quality within the vicinity of the Brooks Basin was monitored by sampling a network of seven wells. The groundwater quality within the vicinity of the Ely Basin was monitored by sampling a network of four wells. The groundwater quality within the vicinity of the San Sevaine and Victoria Basins were monitored by sampling a network of five wells. The wells in the monitoring well networks for Hickory and Banana, Turner, , 7th & 8th Street, Ely, Brooks, RP-3, and San Sevaine & Victoria Basins are summarized in Table 2-7, and presented on Figures 2-1 through 2-7, respectively. The groundwater constituents analyzed from the monitoring wells during quarterly and annual monitoring are presented in Table 2-8a, Table 2-8b, and Table 2-8c.

Groundwater monitoring is conducted to evaluate water quality conditions in the vicinity of the recharge basins utilizing recycled water. Groundwater monitoring results can be used to assess background conditions, time the arrival of recharge waters, and the impact recharged water has on downgradient water supplies. Any 3Q10 analyses results which exceeded primary or secondary MCLs are shown in the tables in bold font. Of note are the analyses for the following wells and constituents.

Turbidity exceeding the secondary MCL was observed in several monitoring wells, namely: 8TH-1/1 and VCT-1/1 and VCT-2/2. Prior to 3Q10, elevated turbidity levels have been detected at several other GWR monitoring wells. Additional purging at these wells lowered turbidity levels to below the MCL.

Following this quarter, additional well purging will be performed at 8TH-1/1, VCT-1/1, VCT 2/2, and other wells where turbidity levels continue to be elevated.

To evaluate turbidity impacts on metals results, IEUA conducted comparative sampling and analyses methods for metals at several monitoring wells (Table 2-8b). The compared methods were analysis of total recoverable metals (unfiltered sample) and analysis of dissolved metals (filtered sample). Findings indicated the metals are not appreciably present following filtering. IEUA discussed with CDPH and RWQCB staff changing the metals analyses protocols for samples from monitoring wells with known high turbidity to the dissolved metals method. Both agencies agreed and written approval from the RWQCB is forthcoming. During 3Q10, only the manganese at well RP3-1/2 and nickel at 8TH-1/1 remained high.

TDS and EC are slightly higher than the secondary MCLs in wells RP3-1 and Southridge JHS. The wells near RP-3 are located in an area with historically high EC levels ($>1,000 \mu\text{mhos/cm}$). Many of the monitoring wells in the RP-3 and Declez monitoring network also have nitrate concentrations above the primary MCL. These higher levels are characteristic of groundwater quality in the local area where historically $\text{NO}_3\text{-N}$ concentrations ranges from 10-30 mg/L. TDS and nitrate concentrations in the area of the RP-3 and Declez monitoring well network are documented in the CBWM 2008 State of the Basin Report.

Di(2-ethylhexyl)phthalate exceeded the MCL of $4 \mu\text{g/L}$ in seven groundwater monitoring wells during annual sampling. This is most likely attributed to contamination from sample tubing containing plastic. Perchlorate concentrations above the MCL of $6 \mu\text{g/L}$ were detected at BRK-1/2 which is characteristic of several production wells in the Pomona area and is documented in the CBWM 2008 State of the Basin Report.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all basins. The 7th & 8th Street, Banana, Brooks, Hickory, RP-3, San Sevaïne, Turner, and Victoria Basins received recycled water this quarter. Table 3-1 lists the volumes of diluent water, recycled water, and/or local runoff and stormwater captured during 3Q10 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.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 3Q10 for domestic or municipal use from the buffer zones that extend 500 feet and 6 months underground travel time from the 7th & 8th Street, Banana, Brooks, Ely, Hickory, RP-3, San Sevaïne, Turner, and Victoria 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, buffer zones, and township/range/section parcels adjacent the basins and buffer zones.

If a well falls within an abutting parcel, SBCDEHS will review the proposed well location using maps of the basins and buffer zones. If the well falls too near the buffer zone 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 be declined due to well locations that are determined to fall within a 500-foot buffer zone.

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. Initial injection began in June 2007. Effective May 1, 2008, MVWD discontinued groundwater injection at the ASR Wells until further notice. 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.

Table 2-1a
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for July 2010
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC ⁶	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
07/01/10	0.8	5.6	5.0		5.5	7.2	1178			<2	0.7	3.7	3.4		3.4	7.6	867			<2
07/02/10	0.8	5.6				7.2	1180			<2	0.8	3.6	3.1		3.1	7.6	874			<2
07/03/10	0.8	5.8				7.2	1199			2	0.7	3.4	3.4		3.5	7.6	871			<2
07/04/10	0.6	5.7				7.2	1189			<2	0.6	3.5	3.7		3.7	7.6	877			<2
07/05/10	0.5	5.8				7.2	1160			2	0.5	3.6	4.9		5.0	7.6	877			<2
07/06/10	0.6	6.4	5.1	5.2	5.2	7.2	1185	464	147	<2	0.5	3.8	5.1	5.7	5.2	7.6	886	436	144	<2
07/07/10	0.6	6.1				7.2	1191			<2	0.5	3.7	4.4		4.4	7.6	889			<2
07/08/10	0.6	6.2	4.3		4.3	7.2	1199			<2	0.7	3.7	0.2		0.3	7.6	879			<2
07/09/10	0.6	6.1				7.3	1200			<2	0.6	3.7	4.7		4.8	7.6	875			<2
07/10/10	0.5	6.2				7.3	1205			<2	0.6	3.7	4.1		4.1	7.7	864			<2
07/11/10	0.6	6.3	5.6		5.6	7.2	1192			<2	0.8	3.9	4.0		4.0	7.7	861			<2
07/12/10	0.7	6.4				7.2	1193			2	0.7	4.0	3.9		3.9	7.7	860			<2
07/13/10	0.6	6.4	4.8	4.9	4.9	7.2	1207		148	<2	1.0	4.1	3.3	3.7	3.3	7.7	883	420		<2
07/14/10	0.6	5.9				7.3	1237			<2	0.9	3.9	3.1		3.1	7.8	881			<2
07/15/10	0.6	6.0	4.8		4.8	7.2	1228			<2	0.8	3.9	3.0		3.0	7.8	880			<2
07/16/10	0.6	5.5				7.2	1199			<2	0.7	3.8	3.0		3.0	7.8	876			<2
07/17/10	0.6	5.4				7.2	1206			<2	0.7	3.9	3.1		3.1	7.8	876			<2
07/18/10	0.6	5.4	5.8		5.8	7.2	1186			<2	0.7	3.9	3.1		3.1	7.8	884			<2
07/19/10	0.6	5.5				7.2	1158			<2	0.6	3.9	2.9		2.9	7.8	890			<2
07/20/10	0.6	5.6	6.9	6.9	6.9	7.2	1175			<2	0.6	4.0	3.7	5.5	3.7	7.8	902	440		<2
07/21/10	0.6	5.3				7.2	1182			<2	0.6	3.9	4.5		4.6	7.7	897			<2
07/22/10	0.6	5.2	4.8		4.8	7.2	1166			<2	0.5	3.7	4.5		4.5	7.7	886			<2
07/23/10	0.6	4.8				7.3	1168			<2	0.5	3.7	4.1		4.1	7.7	868			<2
07/24/10	0.5	4.9				7.3	1169			<2	0.5	3.7	3.7		3.7	7.8	862			<2
07/25/10	0.5	5.2	5.6		5.6	7.3	1177			<2	0.5	3.8	3.9		3.9	7.8	867			<2
07/26/10	0.5	5.3				7.3	1168			<2	0.5	3.8	3.7		3.7	7.8	872			<2
07/27/10	0.6	5.5	6.5	6.5	6.5	7.3	1196		141	<2	0.6	3.8	4.4	5.8	4.4	7.8	886	448		<2
07/28/10	0.6	5.6				7.3	1210			<2	0.5	3.7	5.9		5.9	7.7	884			<2
07/29/10	0.6	5.9	6.3		6.3	7.3	1237			<2	0.4	3.7	5.0		5.0	7.8	879			<2
07/30/10	0.7	5.7				7.3	1231			<2	0.4	3.6	5.1		5.1	7.8	875			<2
07/31/10	0.6	5.6				7.3	1233			<2	0.4	3.6	4.8		4.8	7.8	871			<2
Avg	0.6	5.7	5.5	5.9	5.5	7.2	1194	464	145	<2	0.6	3.8	3.9	5.2	3.9	7.7	877	436	144	<2
Min	0.5	4.8	4.3	4.9	4.3	7.2	1158	464	141	<2	0.4	3.4	0.2	3.7	0.3	7.6	860	420	144	<2
Max	0.8	6.4	6.9	6.9	6.9	7.3	1237	464	148	2	1.0	4.1	5.9	5.8	5.9	7.8	902	448	144	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ 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.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results.

⁶ 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 August 2010
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC ⁶	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
08/01/10	0.6	5.8	6.0		6.0	7.3	1113			<2	0.4	3.6	4.7		4.8	7.8	876			<2
08/02/10	0.6	5.7				7.3	1208			<2	0.4	3.8	4.6		4.6	7.8	879			<2
08/03/10	0.5	5.6	5.5	5.5	5.5	7.3	1224	470	142	<2	0.4	3.7	4.6	5.6	4.6	7.8	883	432	145	<2
08/04/10	0.5	5.5				7.3	1235			<2	0.4	3.6	4.9		4.9	7.8	885			<2
08/05/10	0.5	5.4	5.7		5.7	7.3	1231			<2	0.4	3.5	5.9		5.9	7.7	925			<2
08/06/10	0.5	5.2				7.3	1311			<2	0.5	3.5	6.0		6.0	7.7	911			<2
08/07/10	0.5	5.2				7.3	1369			<2	0.4	3.5	5.1		5.1	7.8	888			<2
08/08/10	0.5	5.4	5.4		5.4	7.3	1308			<2	0.5	3.7	3.8		3.8	7.8	886			<2
08/09/10	0.5	5.4				7.3	1284			<2	0.5	3.8	3.8		3.8	7.8	890			<2
08/10/10	0.6	4.9	4.7	4.7	4.7	7.3	1337			<2	0.5	3.3	4.9	6.1	4.9	7.8	893	424		<2
08/11/10	0.6	5.7				7.3	1362			<2	0.5	3.6	6.0		6.0	7.8	889			<2
08/12/10	0.6	5.9	5.4		5.4	7.3	1311			2	0.5	3.6	7.3		7.3	7.8	881			<2
08/13/10	0.6	5.8				7.3	1297			<2	0.5	3.5	7.7		7.7	7.8	876			<2
08/14/10	0.5	5.3				7.3	1277			<2	0.5	3.5	7.3		7.3	7.8	874			<2
08/15/10	0.5	5.3	5.1		5.1	7.3	1301			<2	0.8	3.8	5.9		5.9	7.8	880			<2
08/16/10	0.5	5.4				7.3	1346			<2	0.7	3.8	5.1		5.1	7.8	872			<2
08/17/10	0.5	6.0	5.2	5.2	5.2	7.3	1399		131	<2	0.8	3.8	4.8	6.1	4.8	7.9	871	430		<2
08/18/10	0.5	5.8				7.3	1391			<2	0.5	3.7	5.0		5.0	7.8	862			<2
08/19/10	0.5	5.8	4.5		4.5	7.3	1389			2	0.5	3.6	5.6		5.6	7.8	848			<2
08/20/10	0.5	5.7				7.3	1379			<2	0.4	3.5	5.6		5.6	7.8	846			<2
08/21/10	0.5	5.4				7.4	1380			<2	0.4	3.5	2.8		2.8	7.8	857			<2
08/22/10	0.5	5.4	4.9		4.9	7.4	1404			<2	0.4	3.8	4.8		4.8	7.9	867			<2
08/23/10	0.5	5.6				7.3	1405			<2	0.3	3.9	4.3		4.3	7.9	869			<2
08/24/10	0.6	5.6	4.3	4.3	4.3	7.4	1381			<2	0.4	4.0	4.4	5.2	4.4	7.9	871	430		<2
08/25/10	0.6	5.5				7.3	1366			<2	0.4	3.8	4.3		4.3	7.8	860			<2
08/26/10	0.6	5.3	5.6		5.6	7.3	1362			<2	0.4	3.8	4.4		4.5	7.9	851			<2
08/27/10	0.6	5.0				7.4	1349			<2	0.5	3.6	4.7		4.7	7.9	859			<2
08/28/10	0.6	5.0				7.4	1339			<2	0.5	3.7	4.7		4.7	7.9	863			<2
08/29/10	0.6	5.3	6.3		6.3	7.4	1338			<2	0.5	3.8	4.9		4.9	7.9	857			<2
08/30/10	0.7	5.2				7.3	1334			<2	0.6	3.9	4.2		4.3	8.0	890			<2
08/31/10	0.7	5.3	5.6	5.6	5.6	7.3	1344			<2	0.5	3.8	3.9	4.8	3.9	7.8	851	422		<2
Avg	0.5	5.5	5.3	5.1	5.3	7.3	1325	470	136	<2	0.5	3.7	5.0	5.6	5.1	7.8	874	428	145	<2
Min	0.5	4.9	4.3	4.3	4.3	7.3	1113	470	131	<2	0.3	3.3	2.8	4.8	2.8	7.7	846	422	145	<2
Max	0.7	6.0	6.3	5.6	6.3	7.4	1405	470	142	2	0.8	4.0	7.7	6.1	7.7	8.0	925	432	145	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ 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.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results.

⁶ TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

Table 2-1c
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for September 2010
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	RP-1 Effluent										RP-4 Effluent									
	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC	TDS ³	Hardness	Coliform ^{1,2,4}	Turbidity ^{1,2}	TOC	NO ₃ -N	TN	TIN ³	pH	EC ⁶	TDS ³	Hardness	Coliform ^{1,2,4}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µmho/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240	2;5;10	16 ⁵		5 ⁶		6<pH<9				2.2;23;240
09/01/10	0.7	5.2				7.4	1342			<2	0.4	3.6	2.5	3.7	2.5	7.9	853			<2
09/02/10	0.8	5.4	5.2		5.2	7.4	1342			<2	0.4	3.7	2.9		3.0	7.9	848			<2
09/03/10	1.2	5.8				7.3	1348			<2	0.4	3.6	3.0		3.0	7.9	843			<2
09/04/10	1.2	5.9				7.3	1355			<2	0.4	3.7	2.9		2.9	7.9	846			<2
09/05/10	1.2	5.8				7.4	1379			<2	0.4	3.7	2.8		2.9	7.9	845			<2
09/06/10	0.8	5.9				7.4	1399			<2	0.5	3.9	2.7		2.8	7.9	856			<2
09/07/10	0.7	6.4	3.0	3.0	3.0	7.4	1371		150	<2	0.5	3.9	2.4		2.5	7.9	860	422	143	<2
09/08/10	0.6	6.1				7.4	1368			<2	0.5	3.8	2.6	3.4	2.7	7.9	870			<2
09/09/10	0.6	6.2	2.3		2.3	7.4	1387			<2	0.5	3.8	2.9		3.0	7.2	871			<2
09/10/10	0.5	5.6				7.4	1347			<2	0.5	3.8	3.4		3.5	6.9	873			<2
09/11/10	0.5	5.7				7.4	1367			<2	0.9	3.7	3.3		3.4	7.0	878			<2
09/12/10	0.5	5.7	2.6		2.6	7.4	1344			<2	0.6	3.8	3.4		3.4	7.0	871			<2
09/13/10	0.5	5.5				7.4	1347			<2	0.5	3.8	2.8		3.1	7.0	877			<2
09/14/10	0.5	5.7	3.5	3.5	3.5	7.4	1334			<2	0.5	3.8	2.7		2.7	7.0	877	410		<2
09/15/10	0.5	5.3				7.4	1303			<2	0.4	3.7	3.2	3.3	3.3	7.0	866			<2
09/16/10	0.5	5.5	2.9		2.9	7.4	1339			<2	0.4	3.7	3.1		3.2	7.0	863			<2
09/17/10	0.5	5.4				7.4	1298			<2	0.4	3.6	3.2		3.3	7.0	863			<2
09/18/10	0.5	5.3				7.4	1282			<2	0.5	3.6	3.5		3.6	7.0	874			<2
09/19/10	0.4	5.5	1.8		1.8	7.4	1304			<2	0.5	3.8	4.6		4.6	7.0	875			<2
09/20/10	0.5	5.5				7.4	1189			<2	0.4	3.8	4.3		4.3	7.0	879			<2
09/21/10	0.6	5.9	4.2	4.2	4.2	7.4			141	<2	0.5	3.8	4.0		4.1	7.0	894	436		<2
09/22/10	0.7	6.1				7.4	1093			<2	0.5	3.6	4.3	5.1	4.3	7.0	899			<2
09/23/10	0.8	5.9	4.7		4.7	7.4	1100			<2	0.5	3.5	4.4		4.4	7.0	885			<2
09/24/10	0.7	5.5				7.4	877			<2	0.4	3.5	4.5		4.5	7.0	871			<2
09/25/10	0.7	5.4				7.4	854			<2	0.4	3.6	4.6		4.6	7.0	872			<2
09/26/10	0.7	5.6	3.5		3.5	7.4	857			<2	0.5	3.7	4.5		4.5	7.0	875			<2
09/27/10	0.7	5.7				7.4	989			<2	0.4	3.8	3.9		3.9	7.0	874			<2
09/28/10	0.6	5.7	4.7		4.7	7.4	993			<2	0.5	3.7	4.0		4.0	7.0	875	422		<2
09/29/10	0.4	5.2				7.3	1021			2	0.4	3.6	3.7	4.0	3.8	7.0	880			<2
09/30/10	0.4	5.2	6.9		6.9	7.3	959			<2	0.5	3.6	3.9		3.9	7.0	880			<2
Avg	0.7	5.6	3.8	3.6	3.8	7.4	1224		145	<2	0.5	3.7	3.5	3.9	3.5	7.2	870	423	143	<2
Min	0.4	5.2	1.8	3.0	1.8	7.3	854		141	<2	0.4	3.5	2.4	3.3	2.5	6.9	843	410	143	<2
Max	1.2	6.4	6.9	4.2	6.9	7.4	1399		150	2	0.9	3.9	4.6	5.1	4.6	7.9	899	436	143	<2

Note:

Bolded characters signify an exceedance of a permit limitation

Blank cells indicate that analysis was not run for a constituent on that particular date. The data presented meets/exceeds the frequency of analysis specified under the discharge permit for these facilities.

¹ 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.

² Turbidity limits: 2 NTU average daily; 5 NTU no more than 5% of day; 10 NTU at any time. Coliform limits: 2.2 MPN/100mL 7-day median; 23 MPN/100mL in no more than 1 sample per month; 240 MPN/100mL at any time.

³ TDS and TIN limits are based on a 12-month running average values which are presented in Table 2-2

⁴ Monthly average for coliform is based on "non-detect" values equal to 2. Determination of "less than" is dependent on the number of "non-detect" occurrences more than half the days in the month.

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results.

⁶ TN compliance can be met at a point prior to the regional groundwater, including lysimeters.

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

	TIN		TDS	
Date	Monthly	12-Mo. Run Avg.	Monthly	12-Mo. Run Avg.
Oct-09	4.6	5.8	499	497
Nov-09	4.8	5.7	490	496
Dec-09	5.5	5.6	494	496
Jan-10	5.7	5.6	493	496
Feb-10	6.2	5.4	489	498
Mar-10	6.4	5.4	482	497
Apr-10	5.7	5.3	473	494
May-10	5.2	5.3	471	492
Jun-10	5.0	5.2	478	490
Jul-10	5.1	5.2	477	487
Aug-10	4.6	5.2	477	485
Sep-10	3.7	5.2	476	483
Avg	5.2	5.4	483	493
Min	3.7	5.2	471	483
Max	6.4	5.8	499	498
Limit		8.0		550

The data reported above will supersede any information submitted for previous quarters. Agency-wide TIN & TDS were in compliance with permit limits at all times.

Table 2-3
Recycled Water Monitoring: Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	4Q09	1Q10	2Q10	3Q10	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.4	<0.2	<1.9	<0.8	<1.9	7	MFL	EPA 100.2
Barium	5	5	9	7	7	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	1.6	0.9	2.9	3.1	2.1	50	µg/L	EPA 200.8
Cyanide	<5	<5	<5	<5	<5	150	µg/L	SM 4500-CN E
Fluoride	0.2	0.2	0.2	0.1	0.2	2	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Nickel	2	2	2	2	2	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	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	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<1	<1	<1	<1	<1	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<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	<0.5	<0.5	<0.5	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	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ²	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<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	2	<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	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.2	<0.06	2	µg/L	EPA 505

Table 2-3
Recycled Water Monitoring: Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	4Q09	1Q10	2Q10	3Q10	4Q Run. Avg. ¹	Limit	Unit	Method
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	<0.05	<0.05	<0.05	<0.05	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	3.4	3.7	3.4	4.4	3.7	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	0.46	<0.14	<0.72	<0.74	<0.74	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0
Tritium	<280	<220	<230	<262	<280	20,000	pCi/L	EPA 906
Strontium-90	<0.68	<0.19	<0.74	<0.76	<0.76	8	pCi/L	EPA 905
Gross Beta Particle Activity	8	6	6	9	8	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	<25	<25	<25	200	µg/L	EPA 200.8
Copper	3.4	3.7	3.4	4.4	3.7	1000	µg/L	EPA 200.8
Corrosivity ³	-0.4 (Non-Cor.)	-0.4 (Non-Cor.)	-0.2 (Non-Cor.)	-0.1 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ³	NR	0.06	0.07	0.06	0.05	0.5	mg/L	S5540C/EPA 425.1
Iron ³	NR	NR	NR	43	66	300	µg/L	EPA 200.7
Manganese	45	10	26	20	25	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	NR	3	3	1	3	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	0.30	<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	17	26	26	25	23	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁴	<1	<1	<1	<1	<1	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<5	<5	<5	<5	<5	10	µg/L	EPA 300.1
Chlorite	<0.01	<0.01	<0.01	<0.02	<0.02	1	mg/L	EPA 300.0
Lysimeter Compliance Point Data	BRK-25	RP3-10	RP3-25	RP3-25				
Total Trihalomethanes (TTHMs)	11	9	4	5	7	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	<2	<2	<2	<2	60	µg/L	S6251B

NR: Not required this quarter

¹ 4-quarter running average is calculated based on ND values equal to half the detection limit. The reported 4-quarter running average value, if less than DL, will be based on highest DL found in the data set.

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. However, if monitoring takes place more frequently than required, those results will be reported.

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

Bold signifies an exceedance of a limit in the Order. Explained in further detail in the report text.

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

Constituent	3Q10	Unit	Method
Metals			
Chromium (III) ¹	3.1	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)			
Acrolein	<2	µg/L	EPA 624
Acrylonitrile	<2	µg/L	EPA 624
Bromoform	<0.5	µg/L	EPA 524.2
Chlorodibromomethane	3.5	µg/L	EPA 524.2
Chloroethane	<0.5	µg/L	EPA 524.2
2-Chloroethylvinylether	<1	µg/L	EPA 624
Chloroform	84	mg/L	EPA 524.2
Dichlorobromomethane	20	µg/L	EPA 524.2
Methyl Bromide	<1	µg/L	EPA 524.2
Methyl Chloride	<0.5	µg/L	EPA 524.2
Acid Extractibles			
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 Extractibles			
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

¹ Trivalent chromium is measured as total chromium

² Chemicals with State Notification Levels, Nitrosamines, and EDC, Pharmaceuticals & Other Chemicals

³ Analytical Method is not available for this constituent

Constituent	3Q10	Unit	Method
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
Unregulated Chemicals			
Endrin Aldehyde	<0.01	µg/L	EPA 608
Chromium VI	<0.05	µg/L	EPA 218.6
Ethyl tertiary butyl ether	<0.5	µg/L	EPA 524.2
Tertiary amyl methyl ether	<0.5	µg/L	EPA 524.2
Chemicals w/ State Notification Levels ²			
Boron	0.3	mg/L	EPA 200.7
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	380	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	µg/L	EPA 524.2
Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2
1,4 - Dioxane	<2	µg/L	EPA 522
Ethylene glycol	NA	mg/L	EPA 8015B
Formaldehyde	38	µg/L	EPA 556
HMX	NA	µg/L	EPA 8330B
Isopropylbenzene	<0.5	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	<2	µg/L	EPA 521
N-nitrosodimethylamine (NDMA)	<2	ng/L	EPA 521
Propachlor	<0.05	µg/L	EPA 525.2
N-propylbenzene	<0.5	µg/L	EPA 524.2
RDX	NA	µg/L	EPA 8330B
Tertiary butyl alcohol	<2	µg/L	542.2 MOD
1,2,3-Trichloropropane (1,2,3-TCF)	<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
2,4,6-Trinitrotoluene	NA	µg/L	EPA 8330B
Vanadium	4	µg/L	EPA 200.8
Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals ²			
4-nonylphenol	<100	ng/L	LC-MS-MS
4-tert-Octylphenol	<50	ng/L	LC-MS-MS
Acetaminophen	<5	ng/L	LC-MS-MS
BPA	<10	ng/L	LC-MS-MS
Caffeine	97	ng/L	LC-MS-MS
Carbamazepine	170	ng/L	LC-MS-MS
DEET	28	ng/L	LC-MS-MS
Diuron	<5	ng/L	LC-MS-MS
Estradiol	<5	ng/L	LC-MS-MS
Estrone	<5	ng/L	LC-MS-MS
Ethinyl Estradiol - 17 alpha	<5	ng/L	LC-MS-MS
Gemfibrozil	<5	ng/L	LC-MS-MS
Ibuprofen	<10	ng/L	LC-MS-MS
Iopromide	16	ng/L	LC-MS-MS
Sulfamethoxazole	29	ng/L	LC-MS-MS
TCEP	140	ng/L	LC-MS-MS
Triclosan	<10	ng/L	LC-MS-MS
EDTA	<0.1	mg/L	MWH_MET

NA: Not Analyzed

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

Banana Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
BNA-LYS-00	0	07/07/10	5.92	2.3	1.8	1.2	1.1	0.18	720
BNA-LYS-00	0	07/13/10	6.33	3.8	2.1	1.7	2.1	0.20	730
BNA-LYS-00	0	07/21/10	6.15	2.3	0.8	0.5	1.8	0.18	725
BNA-LYS-00	0	07/27/10	5.76	1.4	0.3	0.1	1.3	0.16	715
BNA-LYS-00	0	08/03/10	6.63	2.7	0.6	0.5	2.2	0.14	725
BNA-LYS-00	0	08/10/10	8.36	4.6	1.8	1.5	3.1	0.23	720
BNA-LYS-00	0	08/19/10	6.46	3.1	1.0	0.9	2.2	0.10	715
BNA-LYS-00	0	08/24/10	6.33	1.9	0.6	0.6	1.3	0.02	703
BNA-LYS-00	0	08/31/10	5.88	2.8	0.9	0.7	2.1	0.22	720
BNA-LYS-00	0	09/08/10	6.60	2.1	0.3	<0.1	2.1	0.12	740
BNA-LYS-00	0	09/14/10	6.08	3.4	1.4	1.3	2.1	0.12	735
BNA-LYS-00	0	09/21/10	5.33	3.2	1.7	1.4	1.8	0.21	725
BNA-LYS-00	0	09/28/10	5.76	2.3	0.8	0.6	1.7	0.13	705
BNA-LYS-25	25	07/07/10	0.78	0.9	0.9	0.7	<0.5	0.22	670
BNA-LYS-25	25	07/13/10	0.81	1.0	0.9	0.7	<0.5	0.20	670
BNA-LYS-25	25	07/21/10	0.79	0.9	0.8	0.6	<0.5	0.23	695
BNA-LYS-25	25	07/27/10	0.86	0.9	0.9	0.6	<0.5	0.24	695
BNA-LYS-25	25	08/03/10	0.88	1.7	1.2	0.9	0.8	0.22	700
BNA-LYS-25	25	08/11/10	0.95	<0.6	<0.2	<0.1	<0.5	0.10	700
BNA-LYS-25	25	08/19/10	0.66	2.3	2.1	1.9	<0.5	0.22	725
BNA-LYS-25	25	08/24/10	0.77	2.2	2.1	2.0	<0.5	<0.01	728
BNA-LYS-25	25	08/31/10	0.65	3.2	2.4	2.2	1.0	0.22	725
BNA-LYS-25	25	09/08/10	0.66	2.5	2.2	2.0	<0.5	0.22	720
BNA-LYS-25	25	09/14/10	0.73	1.9	1.8	1.6	<0.5	0.20	730
BNA-LYS-25	25	09/21/10	0.85	1.9	1.7	1.5	<0.5	0.21	715
BNA-LYS-25	25	09/28/10	0.65	1.9	1.8	1.5	<0.5	0.20	700

Brooks Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
BRK-LYS-00	0	07/07/10	5.31	1.4	<0.2	<0.1	1.4	0.10	630
BRK-LYS-00	0	07/14/10	5.41	1.7	0.7	0.3	1.4	0.12	650
BRK-LYS-00	0	07/20/10	5.53	2.7	0.7	0.5	2.2	0.13	670
BRK-LYS-00	0	07/27/10	4.90	2.5	0.9	0.8	1.7	0.03	685
BRK-LYS-00	0	08/04/10	4.93	3.3	2.1	2.0	1.2	0.03	715
BRK-LYS-00	0	08/10/10	4.93	3.8	2.1	2.0	1.8	0.14	700
BRK-LYS-00	0	08/18/10	4.16	5.5	3.5	3.3	2.2	0.13	820
BRK-LYS-00	0	08/24/10	4.13	3.6	2.9	2.8	0.8	0.14	695
BRK-LYS-00	0	08/31/10	3.63	4.8	3.1	2.9	1.9	0.17	695
BRK-LYS-00	0	09/08/10	3.53	4.2	3.0	2.8	1.4	0.24	690
BRK-LYS-05	5	07/07/10				1.1		0.17	710
BRK-LYS-05	5	07/20/10	3.80			1.0		0.19	670
BRK-LYS-05	5	09/08/10	2.86	3.2	2.9	2.7	<0.5	0.23	700
BRK-LYS-10	10	07/07/10				0.1		0.25	660
BRK-LYS-10	10	07/14/10	3.46	<0.6	0.3	<0.1	<0.5	0.22	695
BRK-LYS-10	10	07/20/10	3.78			<0.1		0.22	700
BRK-LYS-10	10	07/27/10				<0.1		<0.01	690
BRK-LYS-10	10	08/04/10	3.53			<0.1		<0.01	715
BRK-LYS-10	10	08/18/10	3.29	1.1	0.3	0.1	1.0	0.19	720
BRK-LYS-10	10	08/24/10	3.30			0.1		0.19	708
BRK-LYS-10	10	08/31/10	3.23			<0.1		0.19	715
BRK-LYS-25	25	07/07/10	2.50	<0.6	0.2	<0.1	<0.5	0.20	640
BRK-LYS-25	25	07/14/10	2.53	<0.6	0.2	<0.1	<0.5	0.21	665
BRK-LYS-25	25	07/20/10	2.45	<0.6	0.2	<0.1	<0.5	0.21	720
BRK-LYS-25	25	07/27/10	2.36	1.0	<0.2	<0.1	1.0	<0.01	840
BRK-LYS-25	25	08/04/10	2.51	<0.6	<0.2	<0.1	<0.5	<0.01	795
BRK-LYS-25	25	08/10/10	2.66	<0.6	0.2	<0.1	<0.5	0.19	690
BRK-LYS-25	25	08/18/10	2.46	<0.6	<0.2	<0.1	0.5	0.19	670
BRK-LYS-25	25	08/24/10	3.33	<0.6	<0.2	<0.1	<0.5	0.18	647
BRK-LYS-25	25	08/31/10	2.49	0.7	<0.2	<0.1	0.7	0.16	650
BRK-LYS-25	25	09/08/10	2.69	0.8	0.4	0.2	0.6	0.18	650
BRK-LYS-35	35	07/07/10	3.48	<0.6	0.2	<0.1	<0.5	0.17	535
BRK-LYS-35	35	07/14/10	2.53	<0.6	0.2	<0.1	<0.5	0.17	555
BRK-LYS-35	35	07/20/10	4.21	<0.6	<0.2	<0.1	<0.5	0.17	575
BRK-LYS-35	35	07/27/10	3.39	0.6	<0.2	<0.1	0.6	<0.01	630
BRK-LYS-35	35	08/04/10	2.27	<0.6	<0.2	<0.1	<0.5	<0.01	685
BRK-LYS-35	35	08/10/10	2.66	0.9	0.2	<0.1	0.8	0.18	665
BRK-LYS-35	35	08/18/10	2.35	<0.6	<0.2	<0.1	0.6	0.18	660

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

Brooks Basin (cont'd)									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
BRK-LYS-35	35	08/24/10	2.50	<0.6	<0.2	<0.1	<0.5	0.18	650
BRK-LYS-35	35	08/31/10	2.17	1.0	0.2	<0.1	1.0	0.17	650
BRK-LYS-35	35	09/08/10	2.43	0.8	<0.2	<0.1	0.8	0.19	650

8th Street Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
8TH-LYS-00	0	07/07/10	5.17	4.7	3.3	2.9	1.8	0.21	735
8TH-LYS-00	0	07/14/10	7.05	3.0	1.3	0.6	2.4	0.32	710
8TH-LYS-00	0	07/20/10	7.22	3.8	2.5	2.2	1.7	0.30	730
8TH-LYS-00	0	07/27/10	12.1	7.2	<0.2	<0.1	7.2	<0.01	670
8TH-LYS-00	0	08/05/10	8.87	3.1	0.4	0.4	2.7	0.02	680
8TH-LYS-00	0	08/10/10	9.12	4.2	1.2	1.0	3.2	0.22	705
8TH-LYS-00	0	08/18/10	9.45	3.4	0.9	0.1	3.2	0.31	685
8TH-LYS-00	0	08/24/10	17.6	4.1	0.8	0.5	3.6	0.10	713
8TH-LYS-00	0	08/31/10	37.3	17.5	3.0	<0.1	17.5	0.16	925
8TH-LYS-00	0	09/14/10	12.8	2.0	0.5	0.3	1.7	0.21	565
8TH-LYS-00	0	09/21/10	4.38	5.2	4.3	4.1	1.1	0.20	715
8TH-LYS-00	0	09/28/10	4.53	4.4	3.0	2.8	1.5	0.13	700
8TH-LYS-15	15	07/07/10	2.26	0.8	0.6	0.4	<0.5	0.19	590
8TH-LYS-15	15	07/14/10	1.91	1.7	1.6	1.4	<0.5	0.20	690
8TH-LYS-15	15	07/20/10	1.68	4.9	4.7	4.4	0.5	0.23	715
8TH-LYS-15	15	07/27/10	2.23	3.1	2.3	2.3	0.8	0.01	815
8TH-LYS-15	15	08/05/10	2.18	2.5	2.0	2.0	0.5	<0.01	1010
8TH-LYS-15	15	08/10/10	1.59	2.4	2.2	2.0	<0.5	0.22	860
8TH-LYS-15	15	08/18/10	2.28	1.9	1.4	1.2	0.7	0.24	800
8TH-LYS-15	15	08/24/10	2.39	1.5	1.3	1.1	<0.5	0.22	724
8TH-LYS-15	15	08/31/10	1.72	0.7	0.4	<0.1	0.7	0.25	760
8TH-LYS-15	15	09/14/10	1.64	2.8	2.6	2.3	<0.5	0.28	805
8TH-LYS-15	15	09/21/10	2.97	5.0	4.3	4.1	0.9	0.22	730
8TH-LYS-15	15	09/28/10	2.90	4.6	4.0	3.9	0.8	0.20	725
8TH-LYS-25	25	07/07/10	3.53	<0.6	0.2	<0.1	0.6	0.21	675
8TH-LYS-25	25	07/14/10	3.52	1.5	1.3	1.1	<0.5	0.19	710
8TH-LYS-25	25	07/20/10	2.71	3.2	2.8	2.6	0.6	0.21	705
8TH-LYS-25	25	07/27/10	2.51	1.5	1.2	1.2	<0.5	<0.01	670
8TH-LYS-25	25	08/05/10	2.66	3.2	2.6	2.6	0.6	<0.01	890
8TH-LYS-25	25	08/10/10	2.13	4.3	4.3	4.1	<0.5	0.18	825
8TH-LYS-25	25	08/18/10	2.48	3.8	2.9	2.7	1.1	0.17	695
8TH-LYS-25	25	08/24/10	2.51	1.8	1.6	1.5	<0.5	0.18	768
8TH-LYS-25	25	08/31/10	1.97	1.3	1.2	0.9	<0.5	0.22	795
8TH-LYS-25	25	09/14/10	1.70	1.4	1.3	1.1	<0.5	0.20	730
8TH-LYS-25	25	09/21/10	2.82	3.8	3.4	3.2	0.7	0.21	715
8TH-LYS-25	25	09/28/10	2.75	3.8	3.3	3.1	0.7	0.23	690
8TH-LYS-35	35	07/07/10	2.76	0.6	0.3	<0.1	0.6	0.21	650
8TH-LYS-35	35	07/14/10	2.81	<0.6	0.2	<0.1	<0.5	0.19	675
8TH-LYS-35	35	07/20/10	2.47	2.2	0.4	0.1	2.1	0.22	690
8TH-LYS-35	35	07/27/10	2.37	<0.6	<0.2	<0.1	<0.5	<0.01	710
8TH-LYS-35	35	08/05/10	2.50	0.8	<0.2	<0.1	0.8	<0.01	770
8TH-LYS-35	35	08/10/10	2.50	0.7	0.4	0.2	0.6	0.24	805
8TH-LYS-35	35	08/18/10	2.50	0.9	0.3	<0.1	0.8	0.23	825
8TH-LYS-35	35	08/24/10	2.53	<0.6	0.3	<0.1	<0.5	0.22	797
8TH-LYS-35	35	08/31/10	2.31	1.6	1.5	1.3	<0.5	0.25	795
8TH-LYS-35	35	09/14/10	2.17	<0.6	0.3	<0.1	<0.5	0.28	810
8TH-LYS-35	35	09/21/10	2.28	1.5	1.1	0.8	0.7	0.28	845
8TH-LYS-35	35	09/28/10	2.62	2.7	2.5	2.3	<0.5	0.23	805

Hickory East Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
HKYE-LYS-00	0	07/07/10	6.08	1.4	0.4	0.1	1.2	0.18	645
HKYE-LYS-00	0	07/13/10	5.99	2.5	1.4	1.1	1.5	0.15	735
HKYE-LYS-00	0	07/21/10	5.93	2.5	<0.2	<0.1	2.5	0.12	725
HKYE-LYS-00	0	07/27/10	6.47	1.0	0.3	<0.1	1.0	0.10	710
HKYE-LYS-00	0	08/03/10	8.55	1.9	<0.2	<0.1	1.9	0.11	710
HKYE-LYS-00	0	08/10/10	9.97	3.5	1.1	0.9	2.6	0.17	730

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

Hickory East Basin (cont'd)									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
HKYE-LYS-00	0	08/19/10	72.2	59.0	0.4	<0.1	58.9	0.08	1580
HKYE-LYS-00	0	08/31/10	7.08	5.6	4.5	3.7	1.9	0.22	775
HKYE-LYS-00	0	09/08/10	4.39	5.5	3.7	3.5	2.0	0.20	720
HKYE-LYS-00	0	09/14/10	4.06	4.9	3.6	3.5	1.4	0.12	710
HKYE-LYS-00	0	09/21/10	5.22			1.7	1.5	0.13	685
HKYE-LYS-00	0	09/28/10	5.16	3.7	1.4	1.3	2.4	0.13	690
HKYE-LYS-25	25	07/07/10	0.96			0.7		0.19	600
HKYE-LYS-25	25	07/13/10	1.13			0.8		0.15	640
HKYE-LYS-25	25	07/21/10	1.44	1.8	1.2	1.0	0.8	0.17	655
HKYE-LYS-25	25	07/27/10	1.23			1.2		0.18	645
HKYE-LYS-25	25	08/03/10				1.1		0.15	665
HKYE-LYS-25	25	08/10/10	1.15			<0.1		0.13	640
HKYE-LYS-25	25	08/19/10	0.98			0.9		0.19	725
HKYE-LYS-25	25	08/31/10	0.94	1.5	1.3	1.1	<0.5	0.21	735
HKYE-LYS-25	25	09/08/10	1.23	3.8	3.2	3.0	0.8	0.21	760
HKYE-LYS-25	25	09/14/10	1.99	5.1	4.7	4.5	0.7	0.19	835
HKYE-LYS-25	25	09/21/10	1.45	4.0	3.9	3.7	<0.5	0.19	740
HKYE-LYS-25	25	09/28/10	1.49	3.8	3.4	3.2	0.6	0.17	700
Hickory West Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
HKYW-LYS-05	5	09/21/10	1.68		12.7	12.7		0.01	755
HKYW-LYS-10	10	09/21/10	1.91	4.8	4.4	4.1	0.7	0.29	805
HKYW-LYS-15	15	09/21/10	1.30		1.6	1.3		0.28	1590
HKYW-LYS-25	25	09/21/10	0.20		47.4	47.3		0.18	6620

RP-3 Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
RP31-LYS-00	0	07/07/10	6.30	1.7	1.2	0.9	0.8	0.23	705
RP31-LYS-00	0	07/13/10	6.16	2.0	0.9	0.6	1.5	0.24	680
RP31-LYS-00	0	07/21/10	7.78	2.0	0.5	0.3	1.8	0.21	720
RP31-LYS-00	0	07/27/10	7.16	1.4	0.2	0.2	1.2	0.05	690
RP31-LYS-00	0	08/03/10	10.9	1.9	0.5	0.3	1.7	0.19	680
RP31-LYS-00	0	08/10/10	5.72	2.6	1.4	0.6	1.9	0.43	825
RP31-LYS-00	0	08/19/10	10.7	3.1	0.2	<0.1	3.1	0.13	715
RP31-LYS-00	0	08/24/10	9.89	1.4	<0.2	<0.1	1.3	<0.01	690
RP31-LYS-00	0	08/31/10	6.44	2.8	1.8	1.5	1.3	0.27	705
RP31-LYS-00	0	09/08/10	7.44	2.7	1.1	0.8	1.9	0.32	675
RP31-LYS-00	0	09/14/10	27.4	5.5	0.2	<0.1	5.5	0.14	740
RP31-LYS-00	0	09/21/10	13.8	4.1	0.2	<0.1	4.1	0.19	755
RP31-LYS-10	10	07/07/10	1.78	2.4	2.4	2.1	<0.5	0.28	770
RP31-LYS-10	10	07/13/10	1.63	3.6	3.3	3.0	0.6	0.26	825
RP31-LYS-10	10	07/21/10	1.53	4.4	4.1	3.8	0.7	0.26	870
RP31-LYS-10	10	07/27/10	1.53	2.7	2.4	1.9	0.8	0.43	880
RP31-LYS-10	10	08/03/10	1.68	2.6	1.8	1.6	1.0	0.27	880
RP31-LYS-10	10	08/10/10	1.70	2.0	2.3	1.5	<0.5	0.27	875
RP31-LYS-10	10	08/19/10	1.53	2.2	2.1	1.8	<0.5	0.26	870
RP31-LYS-10	10	08/24/10	1.85	2.0	2.0	2.0	<0.5	<0.01	869
RP31-LYS-10	10	08/31/10	1.55	2.6	2.5	2.2	<0.5	0.27	860
RP31-LYS-10	10	09/08/10	1.69	3.6	2.8	2.5	1.1	0.29	905
RP31-LYS-10	10	09/14/10	1.70	3.5	3.3	3.1	<0.5	0.25	920
RP31-LYS-10	10	09/21/10	2.30	5.1	4.2	4.0	1.1	0.26	885
RP31-LYS-15	15	07/07/10	1.78	1.8	1.8	1.5	<0.5	0.24	780
RP31-LYS-15	15	07/13/10	1.58	2.3	2.0	1.8	0.5	0.22	765
RP31-LYS-15	15	07/21/10	1.87	3.2	3.0	2.7	<0.5	0.23	780
RP31-LYS-15	15	07/27/10	1.63	2.8	2.5	2.5	<0.5	<0.01	825
RP31-LYS-15	15	08/03/10	1.65	3.2	2.9	2.7	0.5	0.25	850
RP31-LYS-15	15	08/10/10	1.55	4.2	3.4	3.1	1.1	0.25	850
RP31-LYS-15	15	08/19/10	1.69	3.6	2.8	2.5	1.0	0.26	880
RP31-LYS-15	15	08/24/10	1.61	2.7	2.7	2.7	<0.5	<0.01	884
RP31-LYS-15	15	08/31/10	1.62	3.3	3.3	3.0	<0.5	0.27	880
RP31-LYS-15	15	09/08/10	1.55	3.6	2.8	2.5	1.0	0.26	880
RP31-LYS-15	15	09/14/10	1.47	3.5	3.1	2.8	0.6	0.25	855
RP31-LYS-15	15	09/21/10	1.95	3.6	3.4	3.2	<0.5	0.25	845
RP31-LYS-25	25	07/07/10	1.57	2.3	2.3	2.1	<0.5	0.22	730
RP31-LYS-25	25	07/13/10	1.55	2.9	2.5	2.3	0.6	0.21	730

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

RP-3 Basin (cont'd)									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
RP31-LYS-25	25	07/21/10	1.52	2.9	2.6	2.4	<0.5	0.22	740
RP31-LYS-25	25	07/27/10	1.36	2.7	2.1	2.1	0.6	<0.01	750
RP31-LYS-25	25	08/03/10	1.47	2.8	2.5	2.2	0.6	0.22	760
RP31-LYS-25	25	08/10/10	1.31	2.7	2.6	2.3	<0.5	0.21	750
RP31-LYS-25	25	08/19/10	1.52	3.0	2.5	2.3	0.7	0.21	765
RP31-LYS-25	25	08/24/10	1.13	1.8	1.7	1.6	<0.5	0.05	695
RP31-LYS-25	25	08/31/10	1.72	2.8	2.5	2.2	0.6	0.24	800
RP31-LYS-25	25	09/08/10	1.25	2.9	2.3	2.1	0.8	0.25	795
RP31-LYS-25	25	09/14/10	1.27	2.3	2.3	2.1	<0.5	0.22	790
RP31-LYS-25	25	09/21/10	1.31	2.4	2.3	2.1	<0.5	0.24	820
RP31-LYS-35	35	07/07/10	1.08	1.9	2.0	1.7	<0.5	0.24	730
RP31-LYS-35	35	07/13/10	1.30	2.4	2.2	1.9	<0.5	0.20	610
RP31-LYS-35	35	07/21/10	1.09	2.7	2.3	2.1	0.6	0.21	630
RP31-LYS-35	35	07/27/10	1.04	2.4	2.0	1.9	<0.5	0.02	640
RP31-LYS-35	35	08/03/10	1.34	2.5	2.2	2.0	0.5	0.24	650
RP31-LYS-35	35	08/10/10	1.05	2.4	2.1	1.9	<0.5	0.22	660
RP31-LYS-35	35	08/19/10	1.03	2.4	1.9	1.7	0.7	0.22	685
RP31-LYS-35	35	08/24/10	1.33	2.5	2.3	2.3	<0.5	<0.01	701
RP31-LYS-35	35	08/31/10	1.15	2.1	1.7	1.4	0.7	0.26	710
RP31-LYS-35	35	09/08/10	1.03	2.1	1.5	1.2	0.8	0.26	705
RP31-LYS-35	35	09/14/10	0.95	1.5	1.5	1.3	<0.5	0.24	710
RP31-LYS-35	35	09/21/10	1.09	2.3	1.5	1.2	1.1	0.25	730

San Sevaine Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
SS5-LYS-00	0	07/13/10	2.77	3.6	3.2	3.1	0.5	0.12	650
SS5-LYS-00	0	07/20/10	2.76	4.5	3.9	3.7	0.8	0.15	715
SS5-LYS-00	0	07/27/10	4.67	4.9	3.9	3.5	1.5	0.36	760
SS5-LYS-00	0	08/04/10	12.3	2.8	<0.2	0.1	2.6	0.02	725
SS5-LYS-00	0	08/11/10	16.3	2.1	<0.2	<0.1	2.1	0.14	730
SS5-LYS-00	0	08/19/10	3.44	6.5	5.7	5.5	1.0	0.19	750
SS5-LYS-00	0	08/24/10	17.6	1.8	<0.2	<0.1	1.8	0.12	790
SS5-LYS-00	0	09/01/10	4.02	4.8	4.0	3.8	1.0	0.20	740
SS5-LYS-00	0	09/08/10	13.7	2.2	<0.2	<0.1	2.1	0.14	770
SS5-LYS-00	0	09/14/10	10.5	2.4	0.4	<0.1	2.4	0.15	745
SS5-LYS-00	0	09/21/10	10.3	1.7	0.4	<0.1	1.7	0.15	795
SS5-LYS-00	0	09/29/10	12.7	2.4	0.4	0.1	2.3	0.10	820
SS5-LYS-05	5	07/07/10	8.91	5.3	5.0	4.6	0.7	0.21	2010
SS5-LYS-05	5	07/13/10	8.88	3.8	3.2	2.9	0.8	0.20	1920
SS5-LYS-05	5	07/20/10	8.93	3.9	3.2	2.8	1.1	0.27	2010
SS5-LYS-05	5	07/27/10	9.01	7.0	5.8	5.3	1.7	0.43	3080
SS5-LYS-05	5	08/04/10	4.39	3.8	3.2	2.8	1.0	0.24	1850
SS5-LYS-05	5	08/11/10	4.03	1.2	1.1	0.5	0.7	0.50	1530
SS5-LYS-05	5	08/19/10	4.66	0.8	0.3	<0.1	0.7	0.24	1200
SS5-LYS-05	5	08/24/10	4.83	0.9	0.2	<0.1	0.8	0.19	885
SS5-LYS-05	5	09/01/10	4.86	0.7	0.3	0.1	0.6	0.19	870
SS5-LYS-05	5	09/29/10	4.15	0.8	0.2	<0.1	0.7	0.13	910
SS5-LYS-10	10	07/07/10	11.2			7.3		0.53	2720
SS5-LYS-10	10	07/13/10	9.21	7.8	6.7	6.1	1.7	0.51	2730
SS5-LYS-10	10	07/20/10	8.27	6.2	5.6	5.1	1.1	0.47	2700
SS5-LYS-10	10	07/27/10	8.68	5.2	4.1	3.5	1.7	0.49	3040
SS5-LYS-10	10	08/04/10	2.85	4.1	3.3	2.0	2.1	0.55	1290
SS5-LYS-10	10	08/19/10	2.79	1.1	0.6	0.1	0.9	0.21	860
SS5-LYS-10	10	08/24/10	3.29	<0.6	0.4	<0.1	<0.5	0.20	808
SS5-LYS-10	10	09/01/10	4.18						840
SS5-LYS-10	10	09/29/10	3.87	0.8	0.2	<0.1	0.8	0.19	805
SS5-LYS-15	15	07/07/10				0.3		0.13	3220
SS5-LYS-15	15	07/13/10	11.7			0.3		0.13	3240
SS5-LYS-15	15	07/20/10	9.67	0.7	0.3	0.1	0.5	0.14	3310
SS5-LYS-15	15	07/27/10				0.2		0.17	3340
SS5-LYS-15	15	08/04/10	6.96	0.6	0.2	<0.1	0.6	<0.01	3370
SS5-LYS-15	15	08/11/10	9.98	1.6	0.8	<0.1	1.6	0.22	2640
SS5-LYS-15	15	08/19/10	7.63	1.8	0.9	<0.1	1.8	0.27	1310
SS5-LYS-15	15	08/24/10	5.55	1.3	1.1	<0.1	1.3	0.26	1200
SS5-LYS-15	15	09/01/10	10.3						1320

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

San Sevaine Basin (con'td)									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
SS5-LYS-15	15	09/08/10				<0.1		0.19	1240
SS5-LYS-15	15	09/14/10	13.2			<0.1		0.20	1010
SS5-LYS-15	15	09/21/10	14.9			<0.1		0.19	940
SS5-LYS-15	15	09/29/10	2.65	1.2	0.7	<0.1	1.2	0.19	840
SS5-LYS-20	20	07/07/10	10.1	1.2	0.7	0.2	1.0	0.33	1920
SS5-LYS-20	20	07/13/10	6.22	1.3	0.9	0.3	0.9	0.26	1960
SS5-LYS-20	20	07/20/10	6.28	1.3	1.0	0.4	0.9	0.26	2030
SS5-LYS-20	20	07/27/10	11.2	2.0	1.2	0.5	1.5	0.29	2050
SS5-LYS-20	20	08/04/10	5.15	3.2	2.2	1.5	1.7	0.16	1930
SS5-LYS-20	20	08/11/10	2.39	3.4	3.6	2.6	0.8	0.53	740
SS5-LYS-20	20	08/19/10	3.29	4.0	3.4	2.5	1.5	0.53	765
SS5-LYS-20	20	08/24/10	2.04	3.6	3.0	2.1	1.5	0.53	655
SS5-LYS-20	20	09/01/10	1.89	4.2	3.2	2.7	1.5	0.51	710
SS5-LYS-20	20	09/08/10	1.82	2.9	2.5	1.8	1.1	0.58	750
SS5-LYS-20	20	09/14/10	2.06	1.8	1.4	0.7	1.1	0.57	780
SS5-LYS-20	20	09/21/10	2.31	0.9	0.9	0.4	0.5	0.54	855
SS5-LYS-20	20	09/29/10	2.19	0.8	0.3	<0.1	0.7	0.24	840
SS5-LYS-25	25	07/07/10	14.3	1.2	0.9	0.6	0.5	0.24	2170
SS5-LYS-25	25	07/13/10	17.8	1.1	0.7	0.6	0.5	0.15	2310
SS5-LYS-25	25	07/20/10	16.6	1.2	0.7	0.5	0.7	0.16	2450
SS5-LYS-25	25	07/27/10	19.9	1.8	0.7	0.5	1.3	0.18	2600
SS5-LYS-25	25	08/04/10	6.47	0.9	0.4	0.3	0.6	<0.01	3110
SS5-LYS-25	25	08/11/10	13.6	1.8	1.5	1.1	0.7	0.35	3250
SS5-LYS-25	25	08/19/10	9.42	2.4	1.4	1.1	1.3	0.34	3040
SS5-LYS-25	25	08/24/10	9.55	1.4	0.8	0.5	0.9	0.34	3160
SS5-LYS-25	25	09/01/10	12.4	0.9	0.6	0.3	0.7	0.26	3400
SS5-LYS-25	25	09/08/10	18.6			0.1		0.19	3500
SS5-LYS-25	25	09/14/10	23.3			<0.1		0.16	3610
SS5-LYS-25	25	09/21/10				<0.1		0.14	3550
SS5-LYS-25	25	09/29/10	4.42	1.0	0.4	0.2	0.9	0.15	3350
SS5-LYS-30	30	07/07/10	5.56	3.1	3.1	1.6	1.4	1.40	1740
SS5-LYS-30	30	07/13/10	4.55	3.0	2.8	1.5	1.5	1.27	1720
SS5-LYS-30	30	07/20/10	4.68	2.8	2.7	1.5	1.3	1.17	1710
SS5-LYS-30	30	07/27/10	8.12	3.2	2.4	1.3	1.9	1.13	1670
SS5-LYS-30	30	08/04/10	4.88	1.9	1.5	0.9	1.0	0.58	2060
SS5-LYS-30	30	08/11/10	6.69	2.2	1.9	0.9	1.3	0.96	2160
SS5-LYS-30	30	08/19/10	7.11	2.3	1.5	0.9	1.4	0.59	2500
SS5-LYS-30	30	08/24/10	5.42	1.8	1.6	1.1	0.7	0.44	2930
SS5-LYS-30	30	09/08/10	7.48	1.8	1.5	1.3	0.5	0.21	4080
SS5-LYS-30	30	09/14/10	7.47	1.6	1.2	1.0	0.6	0.18	4220
SS5-LYS-30	30	09/21/10	7.06	1.1	0.8	0.7	<0.5	0.14	4400
SS5-LYS-30	30	09/29/10	5.59	1.4	1.4	0.7	0.6	0.15	3990
SS5-LYS-35	35	07/20/10	11.4	1.4	1.1	0.5	0.9	0.54	1730
SS5-LYS-35	35	07/27/10				0.3		0.37	1720
SS5-LYS-35	35	08/04/10	28.8			<0.1		0.36	1730
SS5-LYS-35	35	08/19/10	11.8	2.3	1.6	0.8	1.5	0.65	1790
SS5-LYS-35	35	08/24/10	8.95			1.1		0.57	1650
SS5-LYS-35	35	09/21/10				1.0		0.19	1880
SS5-LYS-35	35	09/29/10	2.83	4.2	3.4	2.8	1.3	0.63	2300

Victoria Basin									
Site	Depth, bgs	Date	TOC	TN *	TIN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	μmho/cm
VCT-LYS-00	0	07/07/10	9.64	1.0	<0.2	<0.1	0.9	0.14	630
VCT-LYS-00	0	07/13/10	9.72	2.4	<0.2	<0.1	2.4	0.07	1040
VCT-LYS-00	0	07/21/10	11.1	2.8	<0.2	<0.1	2.8	0.09	1580
VCT-LYS-00	0	07/27/10	16.8	1.7	<0.2	<0.1	1.7	0.13	705
VCT-LYS-00	0	08/11/10	10.3	1.3	0.3	<0.1	1.2	0.16	795
VCT-LYS-00	0	08/18/10	11.9	1.9	0.6	<0.1	1.9	0.17	855
VCT-LYS-00	0	09/08/10	4.91	5.8	4.3	4.1	1.7	0.20	720
VCT-LYS-00	0	09/14/10	6.96	4.0	2.5	2.3	1.7	0.17	695
VCT-LYS-00	0	09/21/10	5.24	3.5	3.1	2.8	0.7	0.27	725
VCT-LYS-00	0	09/27/10	6.64	3.7	1.7	1.6	2.1	0.07	720
VCT-LYS-05	5	09/08/10				4.2		0.29	1360
VCT-LYS-05	5	09/27/10	2.57	2.4	1.5	1.2	1.2	0.16	985
VCT-LYS-10	10	07/07/10	3.26	0.9	0.4	0.2	0.7	0.22	1140

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

Victoria Basin (cont'd)									
Site	Depth, bgs	Date	TOC	TN *	TiN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
VCT-LYS-10	10	07/13/10	3.23	0.7	0.4	0.2	<0.5	0.19	1210
VCT-LYS-10	10	07/21/10	3.37	1.1	0.4	0.2	1.0	0.20	1340
VCT-LYS-10	10	07/27/10	3.51	0.9	0.4	0.2	0.7	0.20	1490
VCT-LYS-10	10	08/03/10	2.91	0.8	0.5	0.4	<0.5	0.19	1650
VCT-LYS-10	10	08/18/10	2.90	1.0	0.4	0.2	0.7	0.21	1970
VCT-LYS-10	10	09/27/10	2.73	0.9	0.4	0.4	0.5	<0.01	1230
VCT-LYS-15	15	07/07/10	3.03	<0.6	<0.2	<0.1	<0.5	0.15	1020
VCT-LYS-15	15	07/13/10	2.43	<0.6	<0.2	<0.1	<0.5	0.15	900
VCT-LYS-15	15	07/21/10	2.19	0.8	0.2	<0.1	0.7	0.15	1000
VCT-LYS-15	15	07/27/10	2.44	1.4	0.2	<0.1	1.3	0.19	965
VCT-LYS-15	15	08/03/10	2.16	<0.6	<0.2	<0.1	0.5	0.17	1100
VCT-LYS-15	15	08/11/10	3.69	<0.6	<0.2	<0.1	<0.5	0.17	1260
VCT-LYS-15	15	08/18/10	1.78	<0.6	<0.2	<0.1	<0.5	0.15	1460
VCT-LYS-15	15	09/08/10				<0.1		0.23	1390
VCT-LYS-15	15	09/27/10	2.05	1.0	<0.2	0.1	0.9	<0.01	965
VCT-LYS-20	20	07/07/10	3.18	<0.6	0.3	0.1	<0.5	0.19	915
VCT-LYS-20	20	07/13/10	2.59	<0.6	0.3	<0.1	<0.5	0.19	940
VCT-LYS-20	20	07/21/10	2.22	0.8	0.3	<0.1	0.7	0.21	1010
VCT-LYS-20	20	07/27/10	2.76	0.7	0.3	<0.1	0.7	0.25	1030
VCT-LYS-20	20	08/03/10	2.75	0.8	0.4	0.1	0.7	0.25	1200
VCT-LYS-20	20	09/08/10	5.04	1.0	0.3	<0.1	0.9	0.27	1360
VCT-LYS-20	20	09/14/10	2.12	<0.6	0.4	0.1	<0.5	0.25	925
VCT-LYS-20	20	09/21/10	2.55	<0.6	0.3	<0.1	<0.5	0.22	820
VCT-LYS-20	20	09/27/10	2.09	<0.6	<0.2	0.1	<0.5	<0.01	755
VCT-LYS-25	25	07/21/10	4.05	<0.6	0.2	<0.1	0.6	0.17	2150
VCT-LYS-25	25	09/08/10				<0.1		0.23	2230
VCT-LYS-25	25	09/27/10	2.50	<0.6	<0.2	0.1	<0.5	<0.01	2180
VCT-LYS-30	30	07/07/10				<0.1		0.19	465
VCT-LYS-30	30	07/13/10	2.49	<0.6	0.2	<0.1	<0.5	0.15	530
VCT-LYS-30	30	07/21/10	3.17	<0.6	<0.2	<0.1	<0.5	0.16	630
VCT-LYS-30	30	07/27/10	2.84	0.9	0.2	<0.1	0.8	0.18	695
VCT-LYS-30	30	08/03/10	2.47	0.8	0.3	<0.1	0.7	0.18	740
VCT-LYS-30	30	08/11/10	2.15	<0.6	0.3	0.2	<0.5	0.17	725
VCT-LYS-30	30	08/18/10	1.99	0.9	0.5	0.3	0.6	0.21	700
VCT-LYS-30	30	09/08/10	2.22	0.8	0.4	0.2	0.6	0.19	820
VCT-LYS-30	30	09/14/10	2.69	<0.6	0.4	0.2	<0.5	0.19	1220
VCT-LYS-30	30	09/21/10	2.54	<0.6	0.4	<0.1	<0.5	0.25	1190
VCT-LYS-30	30	09/27/10	2.19	0.8	0.3	0.3	<0.5	<0.01	1080
VCT-LYS-35	35	07/07/10				<0.1		0.22	450
VCT-LYS-35	35	07/13/10	1.55	<0.6	0.2	<0.1	<0.5	0.20	440
VCT-LYS-35	35	07/21/10	1.50	<0.6	0.2	<0.1	<0.5	0.21	460
VCT-LYS-35	35	07/27/10	1.86	<0.6	0.3	<0.1	0.6	0.25	480
VCT-LYS-35	35	08/03/10	1.21	<0.6	0.2	<0.1	0.6	0.24	500
VCT-LYS-35	35	08/11/10	2.23	<0.6	0.3	<0.1	<0.5	0.25	510
VCT-LYS-35	35	09/14/10	2.20			1.8		0.25	980
VCT-LYS-35	35	09/21/10	2.23			1.7		0.27	1010
VCT-LYS-35	35	09/27/10	1.73	1.8	1.5	1.5	<0.5	<0.01	1040

Declez Basin									
Site	Depth, bgs	Date	TOC	TN	TiN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
DCZ2-LYS-00	0	09/23/10	12.9			2.8	3.2	0.46	515
DCZ2-LYS-05	5	09/23/10	3.69			15.8	0.6	0.22	635
DCZ2-LYS-10	10	09/23/10	3.36	3.9	3.2	3.2	0.8	0.01	580
DCZ2-LYS-15	15	09/23/10	2.93	1.9	1.5	1.4	<0.5	0.08	460
DCZ2-LYS-25	25	09/23/10	2.26	2.3	2.1	2.0	<0.5	0.06	500
DCZ2-LYS-35	35	09/23/10	2.30	1.2	1.3	0.6	0.6	0.54	525

Turner 4 Basin									
Site	Depth, bgs	Date	TOC	TN	TiN	NO ₃ -N	TKN+NO ₂ -N	NO ₂ -N	EC
Unit==>	feet	mm/dd/yy	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmho/cm
TRN4-LYS-00	0	09/23/10	7.62			0.3	1.9	0.15	600
TRN4-LYS-05	5	09/23/10	5.69			<0.1	0.8	0.16	640
TRN4-LYS-10	10	09/23/10	2.97			<0.1	<0.5	0.20	570
TRN4-LYS-15	15	09/23/10				0.1		0.20	660
TRN4-LYS-35	35	09/23/10	1.04			0.4	<0.5	0.28	665

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

* If TN limit of 5 mg/L is not met prior to the RW distribution system, TN compliance can be met at a point prior to reaching the regional groundwater, including lysimeters.

Table 2-5b
Alternative Monitoring Plans

Turner Basin					
Date	Recycled Water*	Recycled Water*	Turner 1 & 2	Turner 3 & 4	Turner 1 & 2 Turner 3 & 4
mg/L==>	TOC	TN	TOC (70% reduction)	TOC (85% reduction)	TN (87% reduction)
07/07/10	3.63	5.8	1.09	0.54	0.8
07/13/10	4.08	4.8	1.22	0.61	0.6
07/21/10	4.57	4.6	1.37	0.69	0.6
07/27/10	4.00	3.3	1.20	0.60	0.4
08/03/10	4.46	6.1	1.34	0.67	0.8
08/10/10	3.86	5.1	1.16	0.58	0.7
08/18/10	3.52	5.7	1.06	0.53	0.7
08/24/10	3.73	5.2	1.12	0.56	0.7
08/31/10	3.52	3.3	1.06	0.53	0.4
09/08/10	4.00	7.7	1.20	0.60	1.0
09/14/10	3.50	5.4	1.05	0.53	0.7
09/21/10	3.65	5.9	1.10	0.55	0.8
09/28/10	3.54	4.5	1.06	0.53	0.6

Ely Basin**				
Date	Recycled Water*	Recycled Water*	Ely 3 East	Ely 3 East
mg/L==>	TOC	TN	TOC (76% reduction)	TN (52% reduction)
07/07/10	3.63	5.8	0.87	2.80
07/13/10	4.08	4.8	0.98	2.31
07/21/10	4.57	4.6	1.10	2.22
07/27/10	4.00	3.3	0.96	1.60
08/03/10	4.46	6.1	1.07	2.92
08/10/10	3.86	5.1	0.93	2.43
08/18/10	3.52	5.7	0.84	2.75
08/24/10	3.73	5.2	0.90	2.49
08/31/10	3.52	3.3	0.84	1.58
09/08/10	4.00	7.7	0.96	3.68
09/14/10	3.50	5.4	0.84	2.61
09/21/10	3.65	5.9	0.88	2.85
09/28/10	3.54	4.5	0.85	2.18

*Recycled water sampled at RRI Energy (formerly Reliant Energy)

** Recycled water was not delivered to Ely Basin during 3Q10

Table 2-6
Diluent Water Monitoring*: Local Runoff

Constituent	Declez Channel @ RP3 Basin September 9, 2010	San Sevaine Creek @ Hickory Basin September 9, 2010	Unit	Method
NO ₂ -N	0.22	0.17	mg/L	EPA 300.0
NO ₃ -N	0.9	<0.1	mg/L	EPA 300.0
TDS	296	322	mg/L	SM 2540C
Total Coliform	>23	>23	mpn/100ml	SM 9221B
Oil & Grease	<2	<2	mg/L	EPA 1664A
Inorganic Chemicals				
Aluminum	38	49	µg/L	EPA 200.7
Antimony	1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	µg/L	EPA 200.8
Asbestos	<3.8	<0.76	MFL	EPA 100.2
Barium	36	29	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	µg/L	EPA 200.7
Chromium	1.3	1.8	µg/L	EPA 200.7
Cyanide	<0.005	<0.005	mg/L	SM 4500-CN E
Fluoride	0.3	0.2	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	µg/L	EPA 245.2
Nickel	1	3	µg/L	EPA 200.7
Perchlorate	<4	10	µg/L	EPA 314
Selenium	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)				
Benzene	<0.5	<0.5	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<1	<1	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	µg/L	EPA 524.2
Styrene	<0.5	<0.5	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)				
Alachlor (Alanex)	<0.1	<0.1	µg/L	EPA 505
Atrazine	<0.05	<0.05	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	µg/L	EPA531.2
Chlordane	<0.1	<0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	µg/L	EPA 515.4
Dalapon	<1	<1	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	µg/L	EPA 515.4
Diquat	<0.4	<0.4	µg/L	EPA 549.2
Endothall	<5	<5	µg/L	EPA 548.1
Endrin	<0.01	<0.01	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	µg/L	EPA 504.1
Glyphosate	9.3	<6	µg/L	EPA 547
Heptachlor	<0.01	<0.01	µg/L	EPA 505

Table 2-6
Diluent Water Monitoring*: Local Runoff

Constituent	Declez Channel @ RP3 Basin September 9, 2010	San Sevaine Creek @ Hickory Basin September 9, 2010	Unit	Method
Heptachlor Epoxide	<0.01	<0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	µg/L	EPA 525.2
Lindane	<0.01	<0.01	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	µg/L	EPA 505
Molinate	<0.1	<0.1	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	µg/L	EPA 515.4
Picloram	<0.1	<0.1	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	µg/L	EPA 505
PCB 1221	<0.1	<0.1	µg/L	EPA 505
PCB 1232	<0.1	<0.1	µg/L	EPA 505
PCB 1242	<0.1	<0.1	µg/L	EPA 505
PCB 1248	<0.1	<0.1	µg/L	EPA 505
PCB 1254	<0.1	<0.1	µg/L	EPA 505
PCB 1260	<0.1	<0.1	µg/L	EPA 505
Simazine	<0.05	<0.05	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	µg/L	EPA 515.4
Disinfection Byproducts				
Total Trihalomethanes (TTHMs)	<2	<2	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	4	6	µg/L	S6251B
Bromate	<5	<5	µg/L	EPA 300.1
Chlorite	<0.01	<0.01	mg/L	EPA 300.0
Action Level Chemicals				
Copper	6.3	10.2	µg/L	EPA 200.7
Lead	<0.5	<0.5	µg/L	EPA 200.8
Radionuclides				
Combined Radium-226 and Radium 22	<0.816	<0.972	pCi/L	EPA 903.0
Gross Alpha Particle Activity	4.7	4.6	pCi/L	EPA 900.0
Tritium	<253	<253	pCi/L	EPA 906
Strontium-90	<0.783	3.39	pCi/L	EPA 905
Gross Beta Particle Activity	4.8	6	pCi/L	EPA 900.0
Uranium	2.2	1.0	pCi/L	EPA 200.8
Unregulated Chemicals				
Chromium VI	1.3**	0.7	µg/L	EPA 218.6
Ethyl tertiary butyl ether	<0.5	<0.5	µg/L	EPA 524.2
Tertiary amyl methyl ether	<0.5	<0.5	µg/L	EPA 524.2
Chemicals w/ State Notification Levels				
Boron	<0.1	<0.1	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	µg/L	EPA 524.2
2-Chlorotoluene	<0.5	<0.5	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	µg/L	EPA 524.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	µg/L	EPA 524.2
1,4 - Dioxane	<2	<2	µg/L	EPA 522
Isopropylbenzene	<0.5	<0.5	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	<2	µg/L	EPA 524.2
N-nitrosodimethylamine (NDMA)	<2	<2	ng/l	EPA 521
N-propylbenzene	<0.5	<0.5	µg/L	EPA 524.2
1,2,3-Trichloropropane (1,2,3-TCP)	<0.5	<0.5	µg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	<0.5	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	µg/L	EPA 524.2
Vanadium	5	13	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals				
Aluminum	38	49	µg/L	EPA 200.7
Corrosivity	1.4	1.8	SI	SM 2330B
Foaming Agents (MBAS)	<0.05	0.18	mg/L	S5540C/EPA 425.1
Iron	68	67	µg/L	EPA 200.7
Manganese	3	5	µg/L	EPA 200.7
Odor--Threshold	1	1	TON	SM 2150B
Silver	<0.25	<0.25	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	µg/L	EPA 525.2
Zinc	10	9	µg/L	EPA 200.7

* Diluent monitoring is monitored per the schedule identified in the CDPH-approved Diluent Water Monitoring Plan

** Total Recoverable Chromium reported in place of Chromium VI for Declez diluent water.

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	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Inactive	Municipal
	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	Active	Municipal
	600585	City of Ontario - 38*	4600 crossgradient	500-1010	16	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
Declez Basin	300208	Jurupa Community Services District - 19	8900 downgradient	230-390	18	Active	Municipal
	300207	Jurupa Community Services District - 17	5240 downgradient	259-290, & 300-400	NA	Active	Municipal
	300200	Jurupa Community Services District - 13	5730 downgradient	220-446	16-34	Active	Municipal
	--	Inland Empire Utilities Agency - DCZ-1	50 downgradient	155-175	4	Active	Monitoring
	--	Inland Empire Utilities Agency - D-1/2	50 downgradient	185-205	4	NA	Monitoring
RP-3 Basins	600492	Fontana Water Company - F23a	7900 upgradient	450-740	18	Active	Municipal
	600477	Inland Empire Utilities Agency - Southridge JHS	5500 downgradient	NA	NA	Active	Municipal
	600848	Alcoa - Offsite Mw1	9480 downgradient	NA	NA	Active	Monitoring
	600850	Alcoa - Offsite Mw3	4725 downgradient	NA	NA	Active	Monitoring
	--	Inland Empire Utilities Agency - RP3-1/1	100 downgradient	215-235	4	NA	Monitoring
	--	Inland Empire Utilities Agency - RP3-1/2	100 downgradient	265-285	4	NA	Monitoring
Jurupa	Not currently planned for recharge						
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
	--	Inland Empire Utilities Agency - 8th-2/2	2460 downgradient	576-616	4	Active	Monitoring
Brooks Basins	1901719	City of Pomona P-10	1983 downgradient	295-784	20	Active	Municipal
	1901713	City of Pomona P-04	2620 downgradient	254-338, & 403-452	NA	Inactive	Municipal
	1903156	City of Pomona P-30	2160 crossgradient	565-875	20	Inactive	Municipal
	1903016	City of Pomona P-2	3455 downgradient	NA	NA	Active	Municipal
	1901725	City of Pomona P-17	4500 downgradient	454-536	20	Inactive	Municipal
	--	Inland Empire Utilities Agency - BRK-1/1	144 downgradient	310-350	4	Active	Monitoring
	--	Inland Empire Utilities Agency - BRK-1/2	144 downgradient	520-560	4	Active	Monitoring
	--	Inland Empire Utilities Agency - BRK-2/1	1305 downgradient	320-360	4	NA	Monitoring
San Sevaline Basins	600905	Cucamonga Valley Water District No. 39	8300-13170 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20		Municipal
	--	Inland Empire Utilities Agency - SS-1/1 and 1/2	~39-116 downgradient	640-680	4	NA	Monitoring
	--	Inland Empire Utilities Agency - SS-2/1 and 2/2	~39-116 downgradient	650-690	4	NA	Monitoring
	--	Inland Empire Utilities Agency - SS-3/1 and 3/2	~750 downgradient	650-690	4	NA	Monitoring
	600576	Unitex IRR	~ 1338 downgradient	NA	NA	NA	Private Irrigation
	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
	600369	Unitex CalDOT	~ 2850 downgradient	400-684	NA	NA	Irrigation
Victoria Basin	600905	Cucamonga Valley Water District No. 39	4329 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601033	Cucamonga Valley Water District No. 43**	8300 downgradient	650-800	32-42	Active	Municipal
	--	Inland Empire Utilities Agency - SS-1/1 and 1/2	~39-116 downgradient	570-610	4	NA	Monitoring
	--	Inland Empire Utilities Agency - SS-1/1 and 1/2	~ 2000 downgradient	570-610	4	NA	Monitoring
Ely Basin	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

* = Ontario Well No. 38 replaced Ontario Well No. 19, which is inactive

** = Cucamonga Valley Water District No. 43 replaced CVWD Well Nos. 35 & 36, which are inactive.

Table 2-8a
Groundwater Monitoring Well Results (Quarterly)

	Sample Location	Date	TOC (mg/L)	Total Coliform (MPN/100mL)	pH	EC (µmholcm)	TDS (mg/L)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (SI)	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 ₄ -N (mg/L)	NO ₂ -N (mg/L)	NO ₃ -N (mg/L)	Nitrogen, Total (mg/L)	TKN (mg/L)	Alkalinity (mg CaCO ₃ /L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Company F37a	7/13/10	0.28	<1.1	7.7	485	288	28	<3	1.7	0.3	<0.05	40	3	<0.5	<1	<0.25	<0.2	0.7	5	17	206	18	17	<0.1	0.22	9.6	9.8	<0.5	167	0.3
	California Speedway Infield Well	7/13/10	0.11	<1.1	7.4	500	302	<25	<3	2.0	0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.3	4	15	215	20	35	<0.1	0.21	7.0	7.2	<0.5	163	0.5
	Reliant Energy East Well	7/13/10	0.38	<1.1	7.5	380	240	<25	<3	1.0	0.1	0.09	<15	2	<0.5	<1	0.37	<0.2	0.6	14	14	156	18	18	<0.1	0.18	7.4	7.6	<0.5	117	1.1
	Ontario Well No. 20	7/20/10	0.30	<1.1	7.9	350	224	<25	<3	1.0	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.3	2	8	155	14	6	<0.1	0.22	2.1	2.3	<0.5	162	0.0
	BH-1/2	7/12/10	0.31	<1.1	8.0	505	308	<25	3	<0.5	0.2	<0.05	110	3	<0.5	<1	<0.25	<0.2	0.9	<1	60	199	23	31	0.1	0.04	2.6	2.6	<0.5	122	8.2
Turner	Ontario Well No. 25	7/20/10	0.12	<1.1	7.5	475	308	<25	<3	0.7	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.2	<1	25	186	22	19	<0.1	0.23	4.4	4.8	<0.5	172	0.0
	Ontario Well No. 29	7/20/10	0.26	<1.1	7.6	400	270	<25	<3	1.3	0.2	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.3	<1	14	152	21	21	<0.1	0.15	4.7	4.8	<0.5	147	0.0
	Ontario Well No. 38	7/20/10	0.14	<1.1	7.9	315	202	<25	<3	0.7	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.3	<1	6	120	19	10	<0.1	0.21	1.6	1.8	<0.5	149	0.0
	T-1/2	7/19/10	0.68	<1.1	7.9	360	224	<25	<3	<0.5	-0.2	<0.05	35	<1	<0.5	<1	<0.25	<0.2	0.3	<1	49	135	17	6	<0.1	0.04	<0.1	0.2	<0.5	93	6.2
	T-2/1	7/19/10	0.66	<1.1	8.1	270	180	<25	<3	0.5	-0.3	<0.05	49	<1	<0.5	1	<0.25	<0.2	0.4	<1	19	90	21	18	<0.1	0.07	0.3	0.4	<0.5	91	6.1
	T-2/2	7/19/10	0.61	<1.1	8.1	300	190	<25	<3	<0.5	-0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.3	<1	24	106	20	22	<0.1	0.07	0.4	0.5	<0.5	99	6.3
RP-3	Fontana Water Company - F23a	7/13/10	<0.10	<1.1	7.7	465	296	<25	<3	1.3	0.4	<0.05	62	3	<0.5	<1	<0.25	<0.2	1.6	3	27	190	21	19	0.2	0.20	7.4	7.9	<0.5	133	1.0
	Southridge JHS	7/19/10	0.78	<1.1	7.8	1020	642	<25	<3	0.7	0.2	<0.05	2410	17	<0.5	<1	<0.25	<0.2	1.0	5	111	399	60	77	0.2	<0.01	14.1	14.2	<0.5	210	5.6
	Alcoa Offsite MW1	9/7/10	0.23	<1.1	7.5	590	436	<25	<3	<0.5	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.2	<1	22	240	27	41	<0.1	0.24	17.7	18.0	<0.5	166	4.4
	Alcoa Offsite MW3	9/7/10	0.17	<1.1	7.1	880	610	1250	<3	<0.5	0.2	<0.05	1990	<1	<0.5	<1	<0.25	<0.2	0.2	<1	75	341	40	41	<0.1	0.29	18.5	18.9	<0.5	201	4.3
	RP3-1/1	7/12/10	1.02	<1.1	7.0	1350	1000	<25	<3	1.5	0.2	0.07	38	53	<0.5	1	<0.25	<0.2	0.6	7	68	526	84	83	<0.1	0.32	54.3	54.6	<0.5	322	1.0
	RP3-1/2	7/12/10	1.16	<1.1	7.0	1270	904	<25	<3	0.9	0.2	<0.05	<15	286	<0.5	1	<0.25	<0.2	0.4	3	65	471	77	77	0.3	0.57	49.1	49.7	<0.5	305	1.1
7th & 8th St.	Ontario Well No. 35	7/21/10	0.24	<1.1	7.5	380	244	<25	<3	1.2	0.2	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.2	<1	8	148	19	21	<0.1	0.11	3.0	3.1	<0.5	151	0.3
	8TH-1/1	8/16/10	0.34	<1.1	7.8	315	234	<25	10	6.5	-0.2	<0.05	1191	28	<0.5	<1	<0.25		29.3	1	46	128	11	12	<0.1	0.02	1.3	1.3	<0.5	68	6.2
	8TH-1/2	8/16/10	0.12	<1.1	7.6	265	176	<25	<3	<0.5	-0.3	<0.05	<15	<1	<0.5	<1	<0.25		0.2	<1	31	107	14	23	<0.1	0.12	5.6	5.7	<0.5	95	8.3
	8TH-2/1	8/25/10	0.25	<1.1	7.3	465	312	<25	<3	<0.5	0.1	<0.05	<15	<1	<0.5	<1	<0.25		0.1	3	13	202	16	23	0.1	0.07	12.7	12.8	<0.5	144	5.7
	8TH-2/2	8/25/10	<0.10	<1.1	7.1	535	356	<25	<3	<0.5	0.1	<0.05	<15	<1	<0.5	<1	<0.25		0.2	<1	24	241	19	24	<0.1	0.08	17.3	17.4	<0.5	153	8.4
Brooks	Pomona P-10	7/14/10	0.21	<1.1	7.6	540	324	<25	3	1.8	0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.4	8	37	256	12	43	0.5	0.20	9.3	9.6	<0.5	145	1.3
	Pomona P-2	7/14/10	0.24	<1.1	7.5	635	394	<25	3	4.7	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.2	15	38	300	13	59	<0.1	0.22	13.5	13.8	<0.5	162	1.6
	Pomona P-30	7/14/10	0.18	<1.1	7.6	565	352	<25		1.0	0.5	<0.05	<15	<1	<0.5		<0.25	<0.2	0.3	2	28	261	12	43	<0.1	0.21	15.3	15.5	<0.5	149	1.8
	Pomona P-30	7/21/10							<3							<1															
	BRK-1/1	9/1/10	1.25	<1.1	7.5	555	384	45	3	<0.5	0.1	<0.05	50	16	<0.5	<1	<0.25		0.7	6	81	231	17	29	<0.1	0.19	0.6	1.7	0.9	126	4.9
	BRK-1/2	8/23/10	0.18	<1.1	7.8	570	384	<25	<3	<0.5	0.5	<0.05	<15	<1	<0.5	<1	<0.25		0.5	<1	22	265	15	44	<0.1	0.06	18.6	18.6	<0.5	146	8.2
	BRK-2/1	8/12/10	0.18	<1.1	7.5	505	318	6920	3	<0.5	0.2	<0.05	1960	1	<0.5	<1	<0.25		0.9	<1	43	241	11	36	<0.1	0.04	4.8	4.8	<0.5	141	7.5
	BRK-2/2	8/12/10	<0.10	<1.1	8.0	355	230	<25	3	<0.5	0.4	<0.05	21	<1	<0.5	<1	<0.25		0.2	<1	8	111	35	21	<0.1	0.08	6.6	6.9	<0.5	129	6.9
Ely	Ely Basin MW-1 Philadelphia St.	8/30/10	0.53	<1.1	7.5	455	270	<25	<3	<0.5	0.0	<0.05	91	7	<0.5	<1	<0.25		0.3	<1	60	164	29	21	0.2	0.02	1.0	1.4	<0.5	118	1.7
	Ely Basin MW-2 Walnut St.	8/23/10	0.37	<1.1	7.6	640	404	<25	<3	<0.5	0.4	<0.05	33	<1	<0.5	<1	<0.25		0.2	<1	46	295	26	31	<0.1	0.03	12.6	12.6	<0.5	184	5.8
	Riverside Drive Well (43840-CWW)	7/14/10	0.32	<1.1	7.4	505	314	<25	<3	<0.5	0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.2	8	23	216	20	33	<0.1	0.23	8.8	9.2	<0.5	167	2.1
	Bishop of San Bernardino Corp. - DOM	7/14/10	0.46	<1.1	7.4	800	486	<25	3	3.1	0.5	<0.05	158	5	<0.5	1	<0.25	<0.2	0.2	28	39	363	24	66	<0.1	0.25	20.4	20.7	<0.5	215	1.2
Declez*	JCSD Well No. 13	7/21/10	0.18	<1.1	7.7	695	436	<25	<3	3.6	0.4	<0.05	<15	<																	

Table 2-8b
Groundwater Monitoring Well Results (Monitoring Well Metals)

Constituent	Southridge								MCL	Unit	Method
	BH-1/2 7/12/10	TRN-1/2 7/19/10	TRN-2/1 7/19/10	TRN-2/2 7/19/10	JHS 7/19/10	RP3-1/1 7/12/10	RP3-1/2 7/12/10	DCZ-1 7/12/10			
Aluminum, Total Recoverable	<25	<25	<25	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Aluminum, Dissolved	<25	<25	<25	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Total Recoverable	<1	<1	<1	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Total Recoverable	<2	<2	<2	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Total Recoverable	93	45	34	43	179	287	281	56	1000	µg/L	EPA 200.8
Barium, Dissolved	92	45	34	40	180	288	278	52	1000	µg/L	EPA 200.8
Beryllium, Total Recoverable	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Total Recoverable	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Total Recoverable	23.6	5.3	8.0	6.4	8.0	9.5	5.2	8.7	50	µg/L	EPA 200.8
Chromium, Dissolved	6.9	2.4	2.7	3.1	10.1	8.4	7.3	2.8	50	µg/L	EPA 200.8
Copper, Total Recoverable	<0.5	<0.5	0.5	<0.5	0.7	1.5	0.9	1.3	1300	µg/L	EPA 200.8
Copper, Dissolved	0.6	0.6	0.7	0.8	1.0	1.4	1.5	1.4	1300	µg/L	EPA 200.8
Iron, Total Recoverable	110	35	49	<15	635	38	<15	628	300 (sec.)	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Total Recoverable	25	3	4	3	3	8	8	107	100	µg/L	EPA 200.8
Nickel, Dissolved	24	3	3	3	3	11	10	90	100	µg/L	EPA 200.8
Manganese, Total Recoverable	3	<1	<1	<1	17	53	286	32	50 (sec.)	µg/L	EPA 200.8
Manganese, Dissolved	5	<1	<1	<1	2	47	274	13	50 (sec.)	µg/L	EPA 200.8
Selenium, Total Recoverable	<2	<2	<2	<2	3	<2	<2	<2	50	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	3	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Total Recoverable	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Silver, Dissolved	<0.25	0.40	0.38	0.35	0.38	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Total Recoverable	<1	<1	<1	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Total Recoverable	<1	<1	<1	<1	5	7	3	1	5000 (sec.)	µg/L	EPA 200.8
Zinc, Dissolved	5	3	3	5	15	15	14	23	5000 (sec.)	µg/L	EPA 200.8

NA: Not Analyzed

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

Table 2-8c
Groundwater Monitoring Well Results (Annual)

Constituent	Ely Basin MW-1 8/30/10	Ely Basin MW-2 8/23/10	SS-1/1 8/24/10	VCT-1/1 8/31/10	VCT-2/2 9/8/10	MCL	Unit	Method
Inorganic Chemicals								
Asbestos	<0.2	<0.2	<0.2	<6.7	<3.8	7	MFL	EPA 100.2
Cyanide	<0.006	<0.006	<0.006	<0.006	<0.006	150	mg/L	SM 4500-CN E
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314
Mercury	<0.05	<0.05	NA	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.3	0.3	0.1	0.1	0.2	2	mg/L	SM 4500-F C
Aluminum, Total Recoverable	<25	<25	<25	3251	473	1000	µg/L	EPA 200.8
Aluminum, Dissolved	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Total Recoverable	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Total Recoverable	2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Arsenic, Dissolved	2	<2	<2	<2	2	10	µg/L	EPA 200.8
Barium, Total Recoverable	53	79	55	84	41	1000	µg/L	EPA 200.8
Barium, Dissolved	51	73	52	50	33	1000	µg/L	EPA 200.8
Beryllium, Total Recoverable	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Total Recoverable	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Total Recoverable	1.5	10.4	4.0	8.1	18.0	50	µg/L	EPA 200.8
Chromium, Dissolved	1.5	8.9	3.1	2.1	3.0	50	µg/L	EPA 200.8
Copper, Total Recoverable	<0.5	<0.5	<0.5	2.7	5.2	1300	µg/L	EPA 200.8
Copper, Dissolved	1.0	0.8	0.6	1.1	0.8	1300	µg/L	EPA 200.8
Iron, Total Recoverable	91	33	23	3600	1168	300 (sec.)	µg/L	EPA 200.8
Iron, Dissolved	25	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Total Recoverable	2	1	<1	5	11	100	µg/L	EPA 200.8
Nickel, Dissolved	2	1	<1	2	4	100	µg/L	EPA 200.8
Manganese, Total Recoverable	7	<1	<1	57	78	50 (sec.)	µg/L	EPA 200.8
Manganese, Dissolved	6	<1	1	4	7	50 (sec.)	µg/L	EPA 200.8
Selenium, Total Recoverable	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Total Recoverable	<0.25	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Total Recoverable	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Total Recoverable	<1	<1	<1	12	13	5000 (sec.)	µg/L	EPA 200.8
Zinc, Dissolved	5	13	7	6	2	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<1	<1	<1	<1	<1	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<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	<0.5	<0.5	<0.5	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	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2

Table 2-8c
Groundwater Monitoring Well Results (Annual)

Constituent	Ely Basin MW-1 8/30/10	Ely Basin MW-2 8/23/10	SS-1/1 8/24/10	VCT-1/1 8/31/10	VCT-2/2 9/8/10	MCL	Unit	Method
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	<1	1750	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
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	EPA531.2
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	<1	<1	<1	<1	<1	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	47	2.4	<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	<5	<5	<5	100	µg/L	EPA 548.1
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	<0.03	<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	0.18	0.16	<0.05	<0.05	<0.05	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
Notification Level Chemicals								
Copper	<0.5	<0.5	<0.5	2.7	5.2	1300	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	0.9	4.6	15	µg/L	EPA 200.8
Copper (Dissolved)	1.0	0.8	0.6	1.1	0.8	1300	µg/L	EPA 200.8
Lead (Dissolved)	<0.5	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	Ely Basin MW-1 8/30/10	Ely Basin MW-2 8/23/10	SS-1/1 8/24/10	VCT-1/1 8/31/10	VCT-2/2 9/8/10	MCL	Unit	Method
Radionuclides								
Combined Radium-226 and Radium 228	<1.01	<0.60	<0.45	<0.99	<0.51	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	NA	NA	NA	NA	NA	15	pCi/l	EPA 900.0
Tritium	<241	<262	<241	<232	254	20,000	pCi/l	EPA 906
Strontium-90	<0.89	<0.89	<0.93	<0.70	<0.99	8	pCi/l	EPA 905
Gross Beta Particle Activity	NA	NA	NA	NA	NA	50	pCi/l	EPA 900.0
Uranium	<0.7	2.3	<0.7	<0.7	<0.7	20	pCi/l	EPA 200.8

NA: Not Analyzed

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2			
Constituent	8/16/10	8/16/10	8/25/10	8/25/10	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<3.8	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	NA	NA	<0.006	<0.006	150	mg/L	SM 4500-CN E
Perchlorate	<4	<4	5	<4	6	µg/L	EPA 314
Mercury	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.3	0.8	0.4	0.4	2	mg/L	SM 4500-F C
Aluminum, Total Recoverable	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Total Recoverable	<1	<1	<1	<1	6	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Total Recoverable	<2	<2	<2	<2	10	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Total Recoverable	35	26	43	53	1000	µg/L	EPA 200.8
Barium, Dissolved	35	27	46	55	1000	µg/L	EPA 200.8
Beryllium, Total Recoverable	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Total Recoverable	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Total Recoverable	266	3.6	4.2	3.4	50	µg/L	EPA 200.8
Chromium, Dissolved	2.4	3.2	3.8	3.3	50	µg/L	EPA 200.8
Copper, Total Recoverable	6.5	<0.5	<0.5	<0.5	1300	µg/L	EPA 200.8
Copper, Dissolved	<0.5	<0.5	1.0	1.0	1300	µg/L	EPA 200.8
Iron, Total Recoverable	1191	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Total Recoverable	136	<1	1	1	100	µg/L	EPA 200.8
Nickel, Dissolved	116	<1	1	1	100	µg/L	EPA 200.8
Manganese, Total Recoverable	28	<1	<1	<1	50 (sec.)	µg/L	EPA 200.8
Manganese, Dissolved	16	<1	<1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Total Recoverable	<2	<2	<2	<2	50	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Total Recoverable	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Total Recoverable	<1	<1	<1	<1	2	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Total Recoverable	1	<1	3	<1	5000 (sec.)	µg/L	EPA 200.8
Zinc, Dissolved	9	10	5	9	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<1	<1	<1	<1	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2			
Constituent	8/16/10	8/16/10	8/25/10	8/25/10	MCL	Unit	Method
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<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	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA531.2
Chlordane	<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	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<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	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	20	14	26	27	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<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	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	0.17	<0.05	0.07	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper	6.5	<0.5	<0.5	<0.5	1300	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Copper (Dissolved)	<0.5	<0.5	1.0	1.0	1300	µg/L	EPA 200.8
Lead (Dissolved)	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2			
Constituent	8/16/10	8/16/10	8/25/10	8/25/10	MCL	Unit	Method
Radionuclides							
Combined Radium-226 and Radium 228	0.68	<0.92	<0.59	0.84	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	NA	NA	NA	NA	15	pCi/l	EPA 900.0
Tritium	<260	<260	<239	<241	20,000	pCi/l	EPA 906
Strontium-90	<0.44	<0.62	<1.04	<0.94	8	pCi/l	EPA 905
Gross Beta Particle Activity	NA	NA	NA	NA	50	pCi/l	EPA 900.0
Uranium	<0.7	<0.7	1.2	1.5	20	pCi/l	EPA 200.8

NA: Not Analyzed

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2			
Constituent	9/1/10	8/23/10	8/12/10	8/12/10	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<0.006	<0.006	<0.006	<0.006	150	mg/L	SM 4500-CN E
Perchlorate	<4	12	<4	<4	6	µg/L	EPA 314
Mercury	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Fluoride	0.2	0.2	0.4	0.1	2	mg/L	SM 4500-F C
Aluminum, Total Recoverable	45	<25	<25	<25	1000	µg/L	EPA 200.8
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Total Recoverable	<1	<1	<1	<1	6	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Total Recoverable	<2	<2	<2	3	10	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	4	10	µg/L	EPA 200.8
Barium, Total Recoverable	28	72	35	53	1000	µg/L	EPA 200.8
Barium, Dissolved	28	68	34	50	1000	µg/L	EPA 200.8
Beryllium, Total Recoverable	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Total Recoverable	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Total Recoverable	3.2	10.0	8.9	13.4	50	µg/L	EPA 200.8
Chromium, Dissolved	1.2	6.1	7.2	10.0	50	µg/L	EPA 200.8
Copper, Total Recoverable	<0.5	<0.5	<0.5	<0.5	1300	µg/L	EPA 200.8
Copper, Dissolved	<0.5	0.6	0.6	1.0	1300	µg/L	EPA 200.8
Iron, Total Recoverable	50	<15	54	21	300 (sec.)	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Total Recoverable	7	1	3	3	100	µg/L	EPA 200.8
Nickel, Dissolved	6	1	3	3	100	µg/L	EPA 200.8
Manganese, Total Recoverable	16	<1	1	<1	50 (sec.)	µg/L	EPA 200.8
Manganese, Dissolved	14	<1	1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Total Recoverable	<2	<2	<2	<2	50	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Total Recoverable	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Total Recoverable	<1	<1	<1	<1	2	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Total Recoverable	6	<1	<1	<1	5000 (sec.)	µg/L	EPA 200.8
Zinc, Dissolved	7	7	7	2	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<1	<1	<1	<1	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2			
Constituent	9/1/10	8/23/10	8/12/10	8/12/10	MCL	Unit	Method
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<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	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA531.2
Chlordane	<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	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	0.05	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	44	10	2.8	3.4	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<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	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	0.08	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper	<0.5	<0.5	<0.5	<0.5	1300	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Copper (Dissolved)	<0.5	0.6	0.6	1.0	1300	µg/L	EPA 200.8
Lead (Dissolved)	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8

Table 2-8c
Groundwater Monitoring Well Results (Annual)

	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2			
Constituent	9/1/10	8/23/10	8/12/10	8/12/10	MCL	Unit	Method
Radionuclides							
Combined Radium-226 and Radium 228	<0.70	<0.66	<0.51	<0.91	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	NA	NA	NA	NA	15	pCi/l	EPA 900.0
Tritium	<232	<262	<260	<260	20,000	pCi/l	EPA 906
Strontium-90	<0.69	<0.84	<0.55	<0.47	8	pCi/l	EPA 905
Gross Beta Particle Activity	NA	NA	NA	NA	50	pCi/l	EPA 900.0
Uranium	1.9	1.2	1.9	1.0	20	pCi/l	EPA 200.8

NA: Not Analyzed

Bold signifies an exceedance of an Maximum Contaminant Level. Explained in further detail in the report text.

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

	Diluent Water																		Recycled Water								
	Imported Water									Local Runoff / Storm Flow																	
Date	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP-3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP-3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP-3	San Sevaïne	Turner	Victoria
Oct-09	0	0	0	0	7	4	0	0	5	74	15	13	132	24	122	55	80	37	0	129	184	102	189	203	0	0	0
Nov-09	3	0	0	0	0	0	0	0	0	90	0	4	282	26	88	21	52	19	133	181	246	120	243	287	0	0	0
Dec-09	0	0	0	0	0	0	0	0	0	303	75	129	242	158	304	334	499	89	93	67	144	0	93	103	0	63	0
4Q09 Total	3	0	0	0	7	4	0	0	5	467	90	146	656	209	513	411	631	145	226	377	574	222	525	593	0	63	0
Jan-10	0	0	0	0	0	0		0		387	100	251	319	214	526	290	478	153	102	75	74	0	19	76	0	127	0
Feb-10	3	0	0	0	0	0	0	0	0	475	143	215	221	200	370	224	505	174	0	0	54	0	0	113	0	0	0
Mar-10	0	0	0	0	0	0	0	0	0	72	17	27	100	16	104	16	148	0	114	0	180	0	61	213	0	44	0
1Q10 Total	3	0	0	0	0	0	0	0	0	934	260	494	640	429	1000	529	1132	327	216	75	307	0	80	401	0	171	0
Apr-10	0	0	0	0	0	0	0	0	0	206	66	23	394	46	129	0	241	0	100	140	235	0	56	71	0	15	0
May-10	0	0	0	0	0	0	0	0	0	34	0	2	98	0	49	0	64	0	199	177	356	0	111	272	0	70	0
Jun-10	0	0	0	0	0	0	0	0	0	33	0	1	0	0	43	0	20	0	302	129	208	0	50	261	0	40	0
2Q10 Total	0	0	0	0	0	0	0	0	0	273	66	25	492	46	221	0	326	0	601	446	798	0	216	604	0	125	0
Jul-10	0	0	0	0	0	0	0	0	0	30	0	1	0	0	23	0	119	3	218	77	147	0	21	229	50	6	0
Aug-10	0	0	0	0	0	0	0	0	0	28	0	18	0	0	21	0	136	2	107	54	275	0	28	181	44	30	0
Sep-10	0	0	0	0	0	0	0	0	0	36	0	1	0	12	18	0	111	2	177	59	141	0	285	49	42	17	67
3Q10 Total	0	0	0	0	0	0	0	0	0	94	0	20	0	12	63	0	366	7	502	190	563	0	334	459	136	53	67

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
2Q08	Apr-08	42	1.10	350	0			82	99	32,273
	May-08	0	1.10	350	98	7.5*	372*	(16)	(805)	(12,728)
	Jun-08	0	1.10	350	107	14	360	(123)	(2,645)	(60,049)

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)
3Q08	Jul-08	0			67	3.5*	310*	612	(722)	213,038
	Aug-08	0			0			612	(722)	213,038
	Sep-08	0			0			612	(722)	213,038
4Q08	Oct-08	0			0			612	(722)	213,038
	Nov-08	0			0			612	(722)	213,038
	Dec-08	0			0			612	(722)	213,038
1Q09	Jan-09	0			0			612	(722)	213,038
	Feb-09	0			0			612	(722)	213,038
	Mar-09	0			0			612	(722)	213,038
2Q09	Apr-09	0			0			612	(722)	213,038
	May-09	0			0			612	(722)	213,038
	Jun-09	0			0			612	(722)	213,038

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)
3Q08	Jul-08	0			67	No Data	No Data	167	No Data	No Data
	Aug-08	0			0			167		
	Sep-08	0			0			167		
4Q08	Oct-08	0			0			167		
	Nov-08	0			0			167		
	Dec-08	0			0			167		
1Q09	Jan-09	0			0			167		
	Feb-09	0			0			167		
	Mar-09	0			0			167		
2Q09	Apr-09	0			0			167		
	May-09	0			0			167		
	Jun-09	0			56	No Data	No Data	111	No Data	No Data

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

During 2Q08, WFA-treated water was sampled for TDS and TIN (NO₃-N + NO₂-N, assuming no NH₃-N in drinking water) on 04/15/08.

MVWD discontinued groundwater injection at ASR Wells 4, 30, and 32, effective May 1, 2008, until further notice.

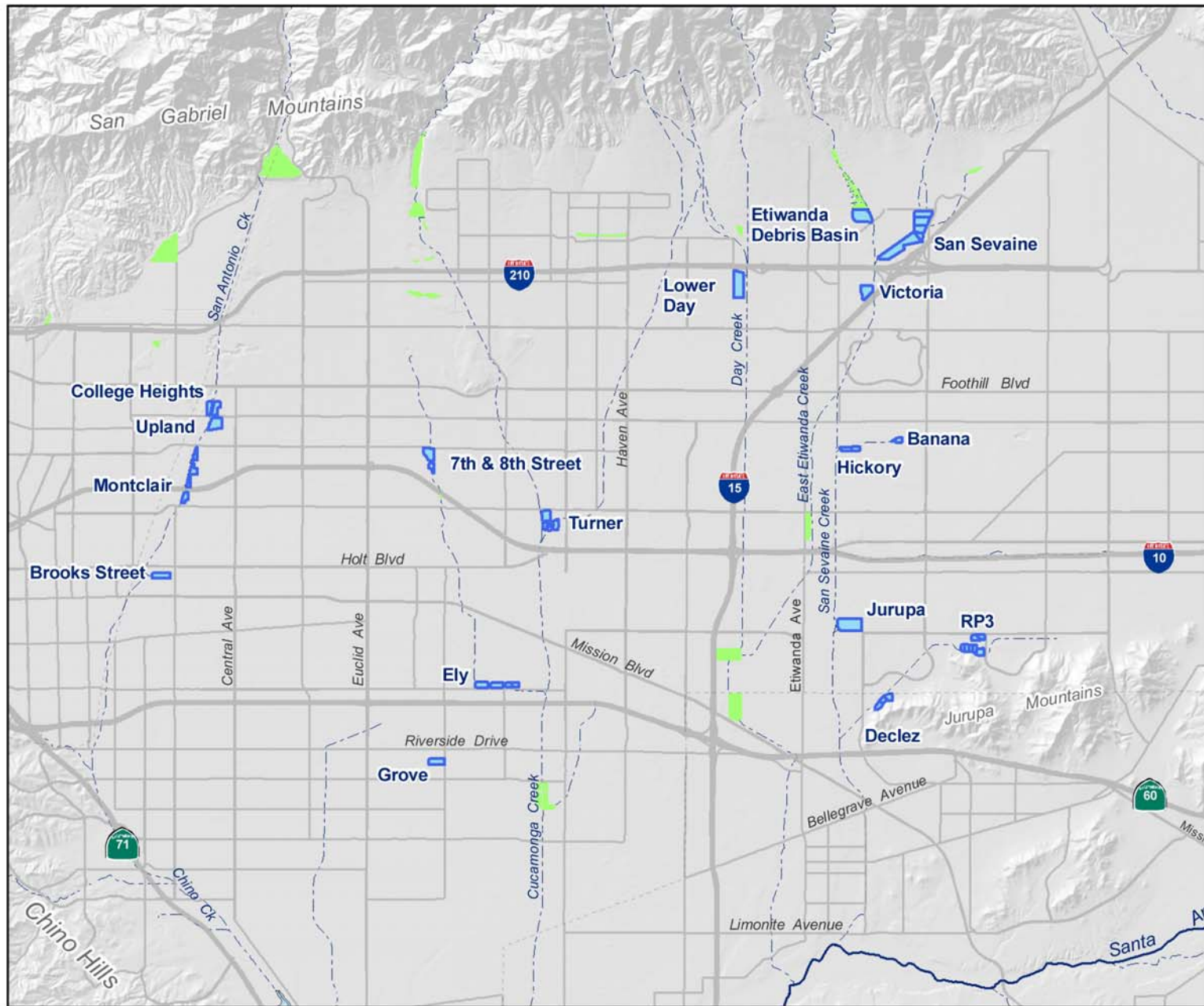
All wells were placed into production (extraction) mode during 2Q08.

* Wells w/ 2+ sampling events for the month show an avg. of those values. Individual values are at the bottom of the page.

Total Project (All Wells)										
	Date						Mass Balance			
							Storage (AF)	TIN (kg)	TDS (kg)	
3Q08	Jul-08						657	(3,367)	152,989	
	Aug-08						657	(3,367)	152,989	
	Sep-08						657	(3,367)	152,989	
4Q08	Oct-08						657	(3,367)	152,989	
	Nov-08						657	(3,367)	152,989	
	Dec-08						657	(3,367)	152,989	
1Q09	Jan-09						657	(3,367)	152,989	
	Feb-09						657	(3,367)	152,989	
	Mar-09						657	(3,367)	152,989	
2Q09	Apr-09						657	(3,367)	152,989	
	May-09						657	(3,367)	152,989	
	Jun-09						601	(3,367)	152,989	

Well 4	TIN	TDS	Est. Prod
5/7/08	4.1	360	20%
5/9/08	6.9	370	40%
5/12/08	6.9	370	60%
5/27/08	12	390	80%
6/6/08	14	360	100%

Well 30	TIN	TDS	Est. Prod
6/5/08	2.0	310	20%
6/26/08	4.9	310	40%



Explanation

-  Recharge Basins in the Recycled Water Groundwater Recharge Program
-  Non-program basins
-  Rivers and Streams

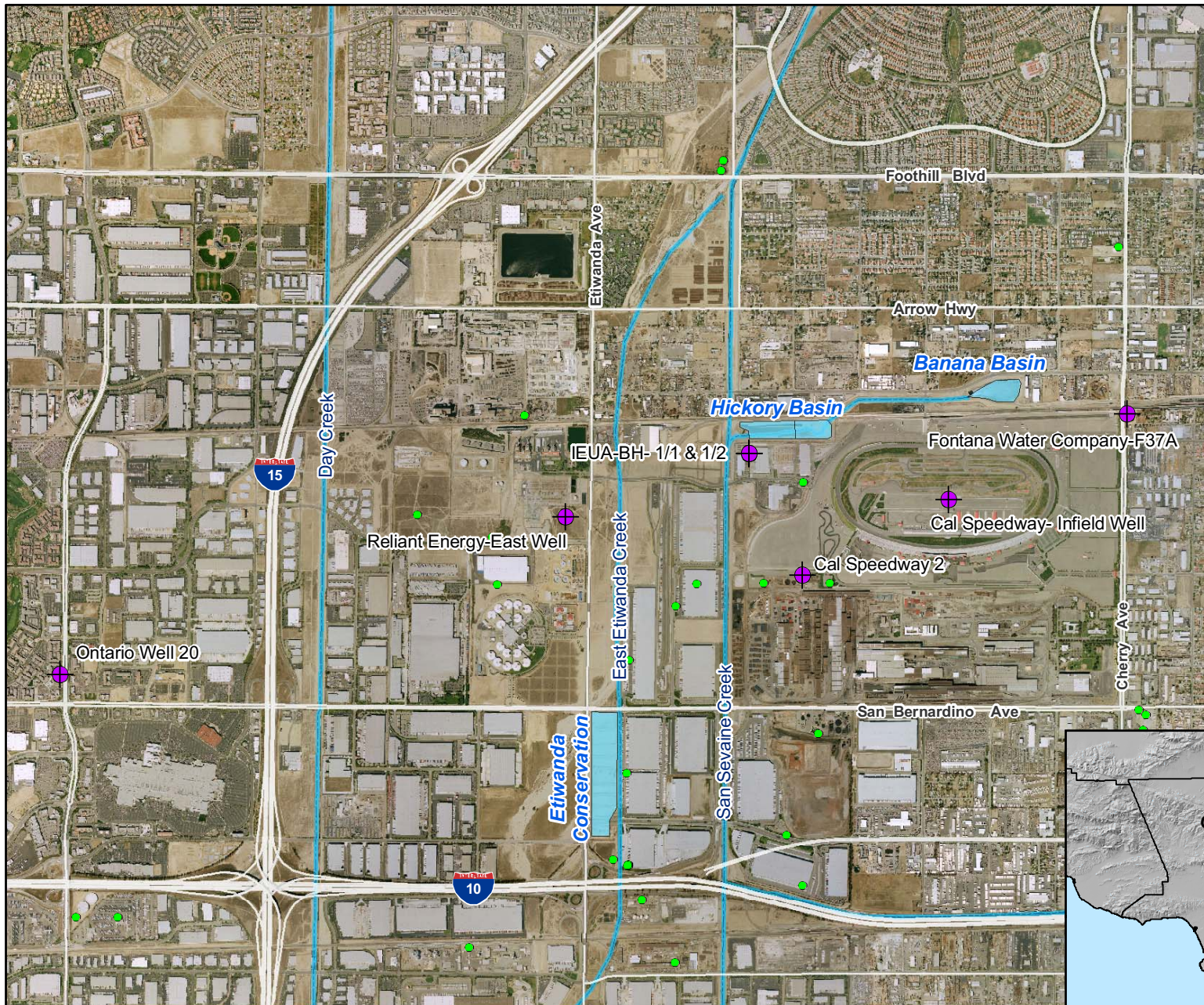


Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations



Figure 1-1



Main Map Features

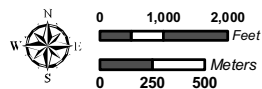
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

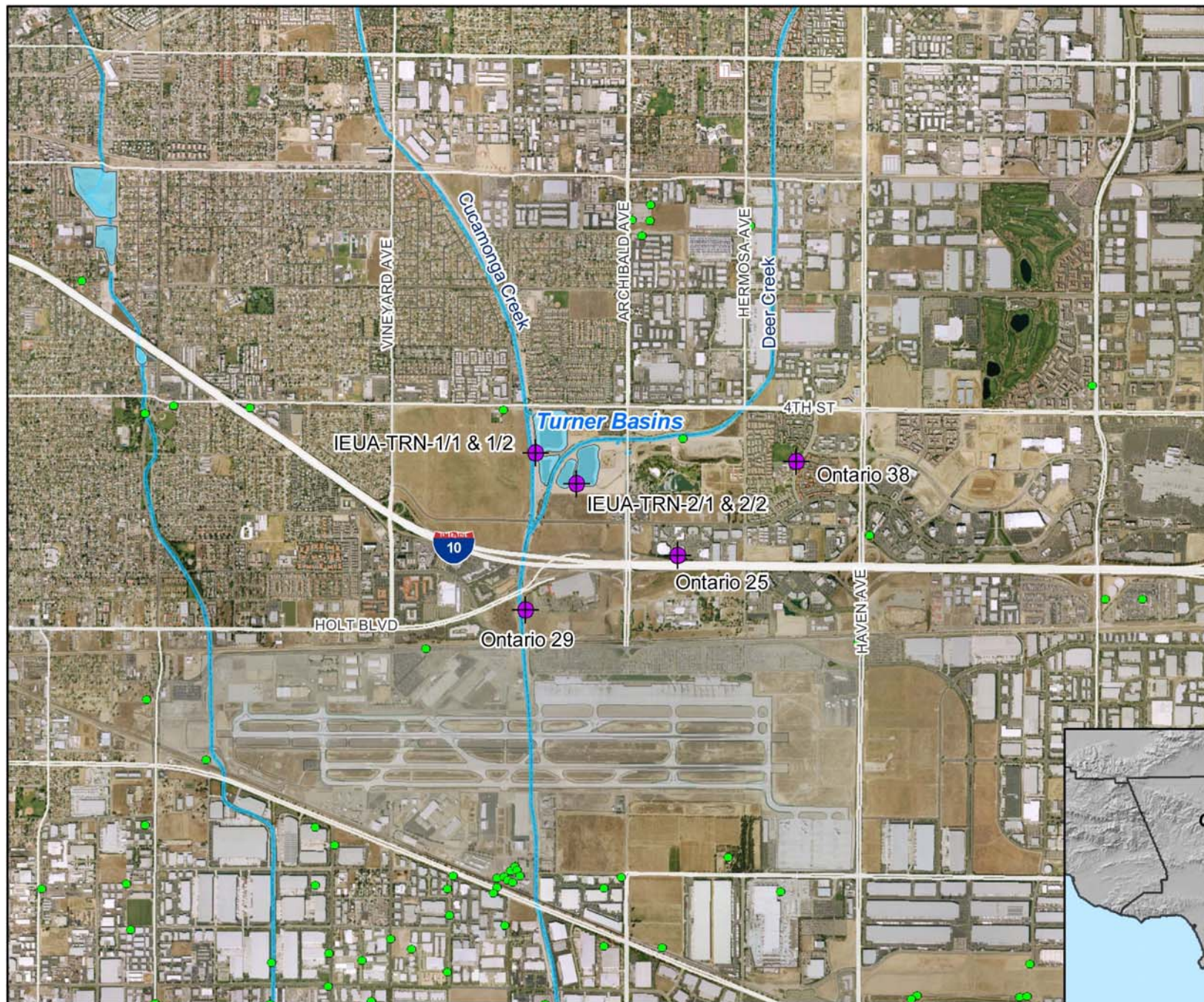


Monitoring Well Network
Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





Main Map Features

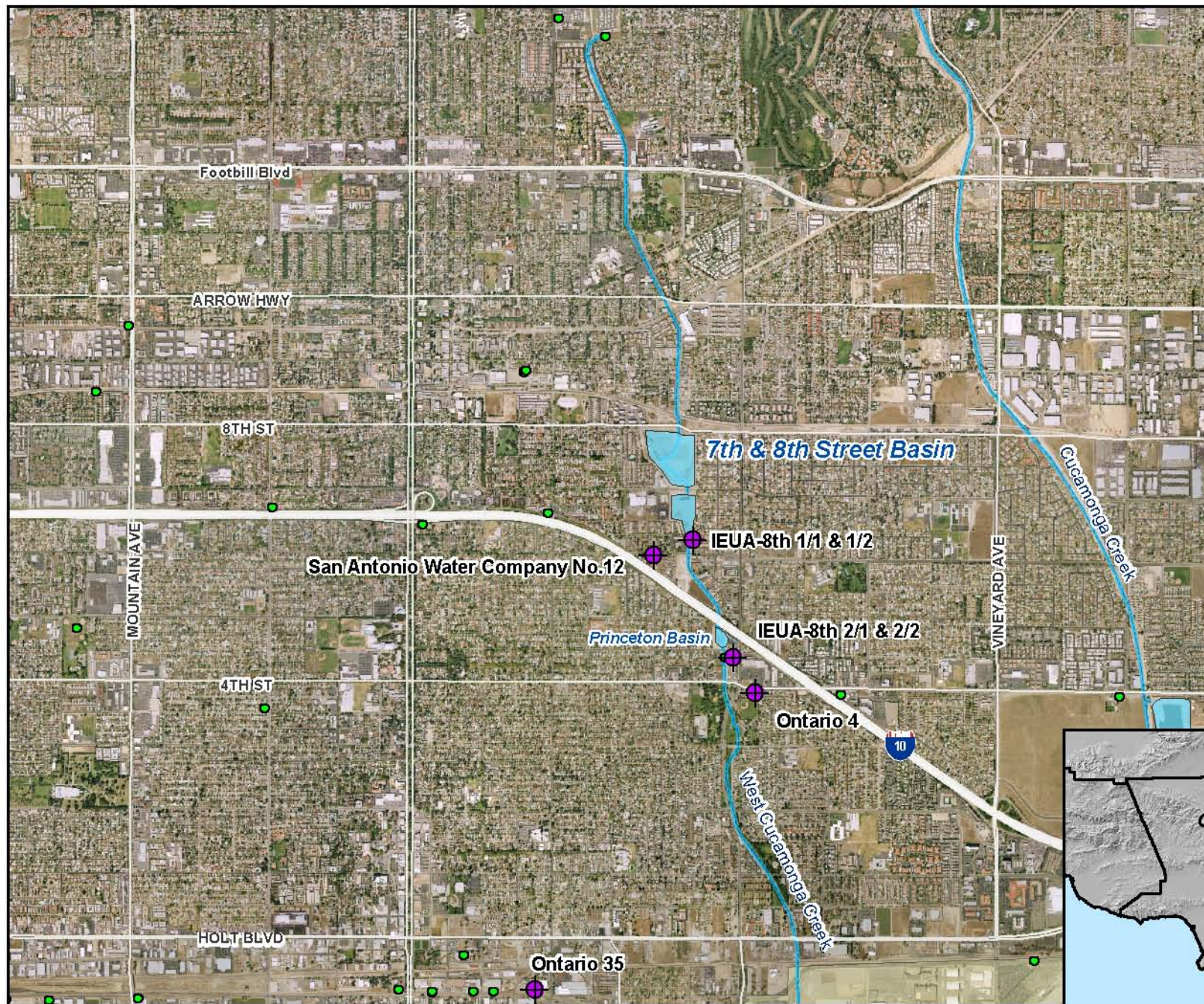
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins



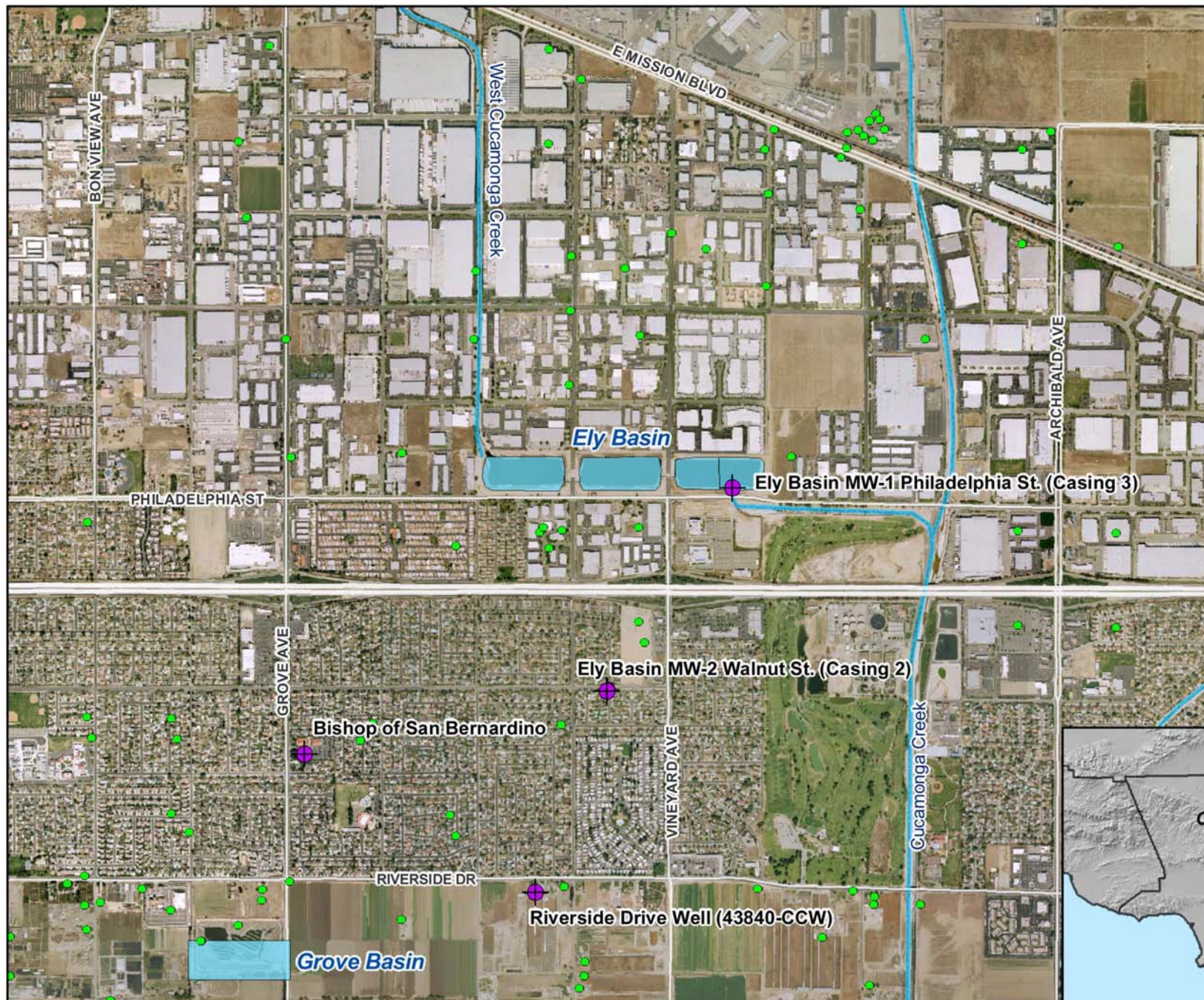
Monitoring Well Network

7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program





Main Map Features

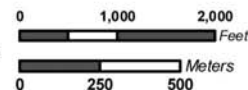
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

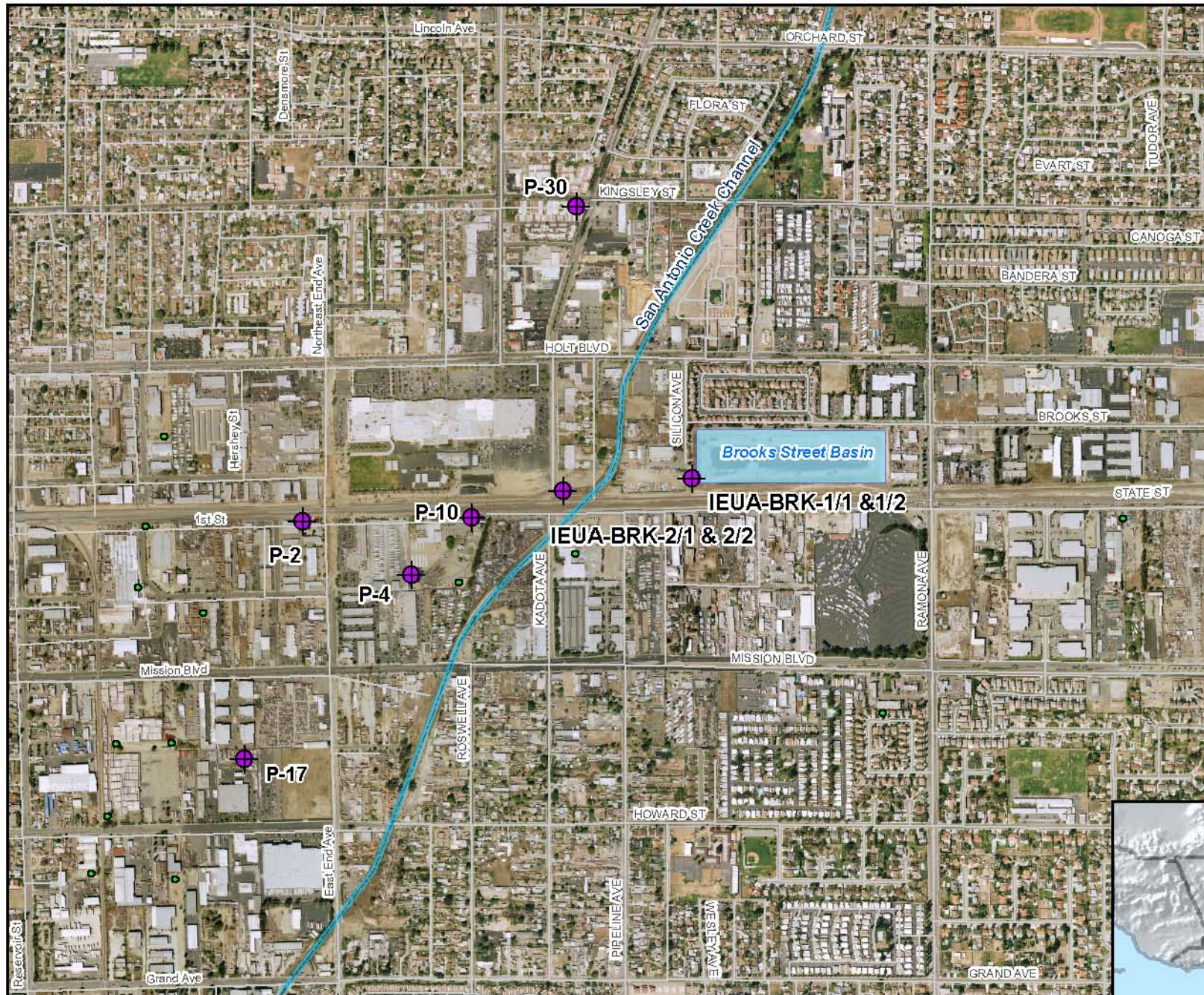


Monitoring Well Network
Ely Basins

Figure 2-4

Recycled Water Recharge Program





Main Map Features

- Existing Monitoring Wells
- "Other" Wells
- Rivers/Streams/Creeks
- Recharge Basins

Monitoring Well Network

Brooks Street Basin

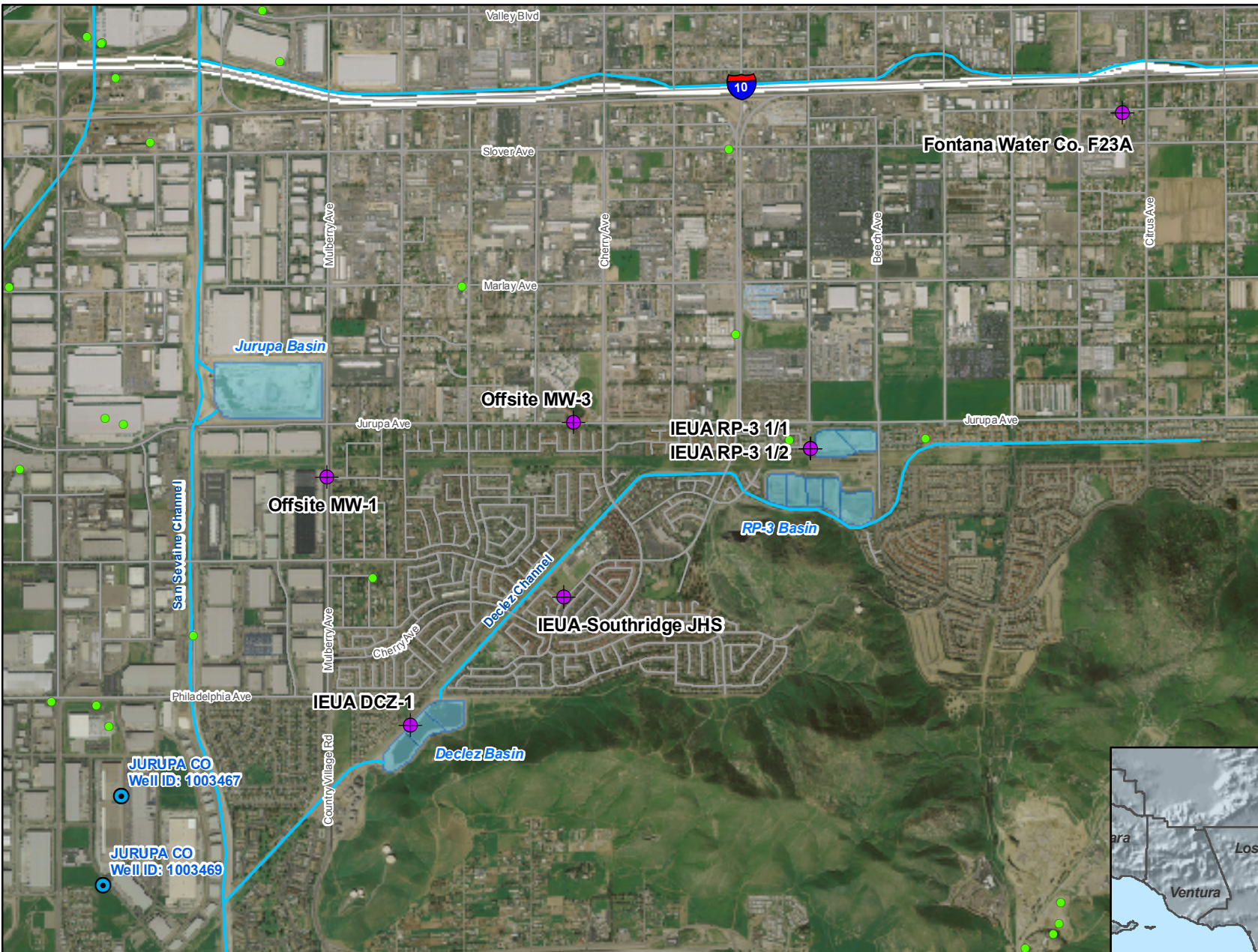
Figure 2-5

Recycled Water Recharge Program



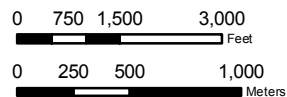
Main Map Features

- "Other" Wells
- JCSD Wells
- ⊕ Existing Monitoring Wells
- Rivers/Streams/Creeks
- Recharge Basins

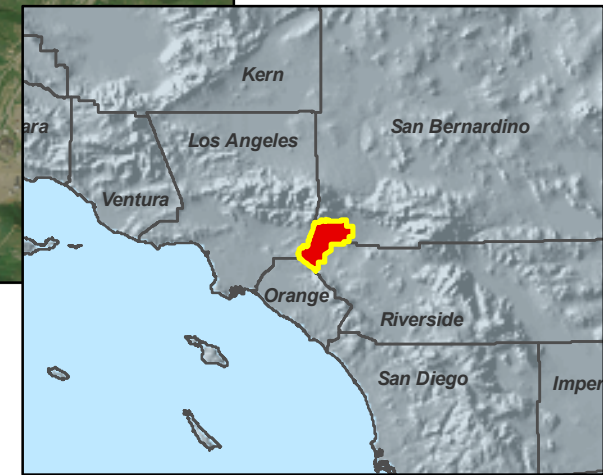


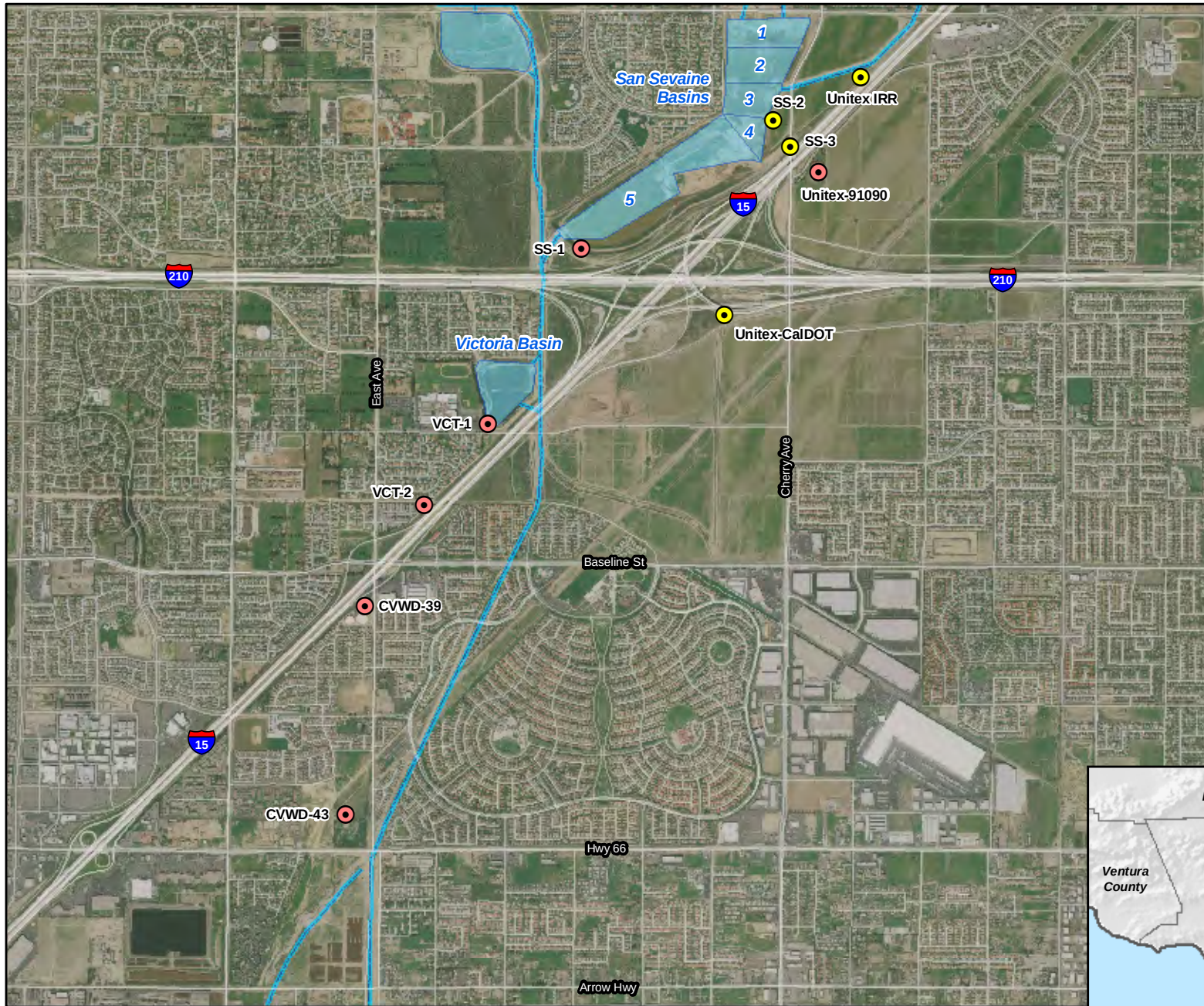
Monitoring Well Network RP-3 Basin

Figure 2-6



Recycled Water Recharge Program





Main Map Features

- Existing Monitoring Wells
- Other Wells*
- Streams/Creeks
- Basins

*Current recycled water recharge activities occur at Victoria and San Seavaine 5 only. Therefore SS-2, SS-3, Unitex CalDOT, and Unitex IRR are not being monitored.

Monitoring Well Network
San Seavaine and Victoria Basins

Figure 2-7

