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November 12, 2015

Regional Water Quality Control Board, Santa Ana Region
Attention: Mr. Kurt Berchtold
3737 Main Street, Suite 500
Riverside, California 92501-3348

Subject: Chino Basin Recycled Water Groundwater Recharge Program
Quarterly Monitoring Report for July through September 2015

Dear Mr. Berchtold,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the third quarter of 2015 (3Q15), July 1 through September 30, 2015, 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 3Q15, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of an exceedance of the 4-quarter running average for odor (secondary MCL).

On June 18, 2014, the State Water Resources Control Board – Division of Drinking Water (DDW) adopted new regulations pertaining to Groundwater Replenishment Reuse Projects (GRRPs), which can be found in Title 22, Division 4, Chapter 3. Article 5.1 §60320.100 for surface application. Pursuant to the new GRRP Regulations, additional monitoring and reporting was implemented during 3Q15. These additions will be discussed in further detail in the report text.

Chino Basin Watermaster hereby certifies that, during the period of July 1 through September 30, 2015, 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 8th Street, Banana, Brooks, Ely, Hickory, RP3, San Sevaine, Turner, and Victoria Basins. In point of fact, there are no domestic or municipal 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 12th day of November 2015 in the Cities of Chino and Rancho Cucamonga.

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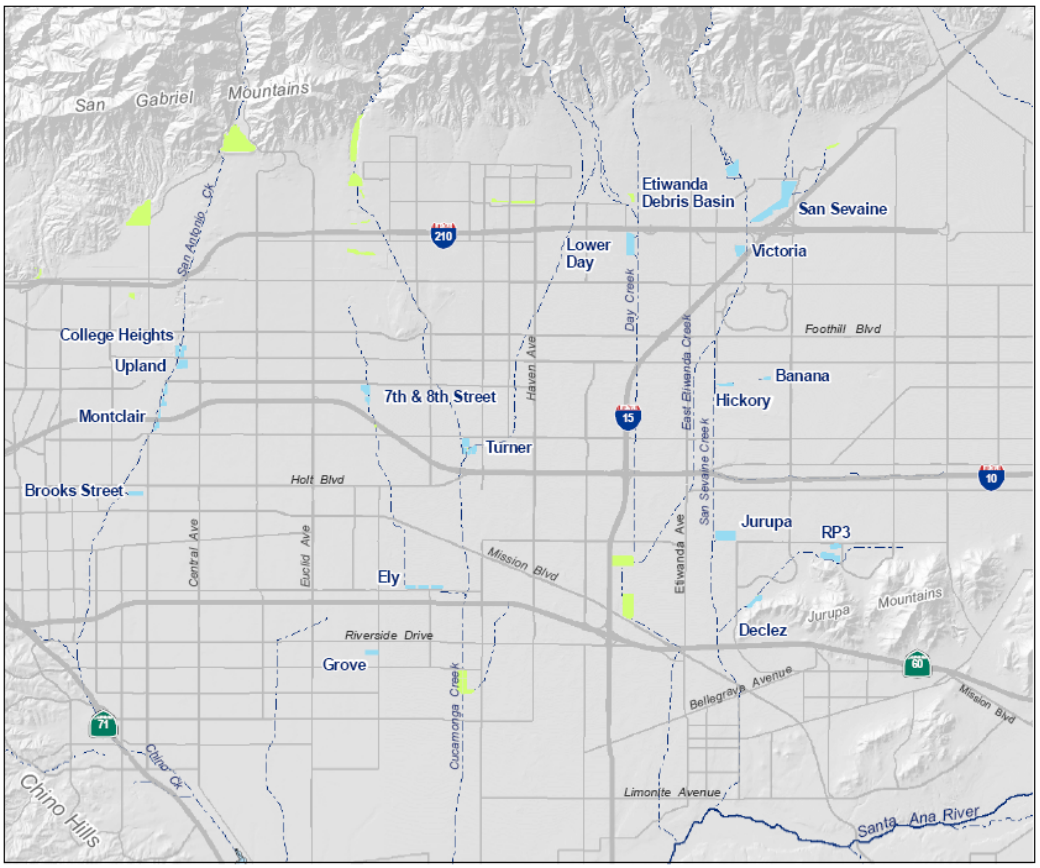
Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report

July 1 through September 30, 2015



Prepared by:

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

November 15, 2015

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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 part of 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. The locations of recharge basins in the Chino Basin Groundwater Recharge Program are shown 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 (MRP). The MRP 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 2015 (3Q15).

The quarterly report includes the following elements as prescribed in the MRP:

- 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 for domestic water supply use from the buffer zone that extends 500 feet and 6-months underground travel time from the recharge basin(s) where recycled water is applied.

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.

C. Revised Monitoring & Reporting Program No. R8-2007-0039

On October 27, 2010, the Regional Board revised Monitoring and Reporting Program No. R8-2007-0039 (MRP) based on requests for modifications from IEUA and approved by the State Water Resources Control Board – Division of Drinking Water (DDW, formerly California Department of Public Health). The following changes were made to the MRP:

1) Sampling Requirements A.3, A.4, and A.5 were modified by specifying that samples shall be collected on a representative day instead of the 10th day.

2) Groundwater Monitoring Program Requirement V.1. was modified by adding a sentence to the paragraph that allows IEUA to analyze the groundwater samples collected on a quarterly basis from non-active municipal drinking water wells for dissolved metals, instead of total recoverable metals.

3) Reporting Requirement VI.B.3.b. was modified and footnote No. 18 was added to reflect that IEUA uses groundwater monitoring information contained in the *State of the Basin* report prepared on a biennial basis by the Chino Basin Watermaster, amongst other sources, for the annual determination of the recycled water groundwater flow path.

D. Title 22, Division 4, Chapter 3. Article 5.1 §60320.100

On June 18, 2014, the DDW adopted new regulations pertaining to Groundwater Replenishment Reuse Projects (GRRPs), which can be found in Title 22, Division 4, Chapter 3. Article 5.1 "Indirect Potable Reuse: Groundwater Replenishment - Surface Application" found in Sections §60320.100 through 60320.130. Pursuant to the new GRRP Regulations, additional monitoring and reporting was implemented during 3Q15.

E. 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's (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 MRP. Tables 2-1 through 2-4 include all of the requisite 3Q15 data.

Recycled Water Specifications A.5 through A.9 in the Order are the narrative limits established in the permit. The corresponding monitoring data used to determine compliance with the Order are presented in Tables 2-1 and 2-2. This data is typically collected from samples of RP-1 and RP-4 effluent; however, recycled water compliance with the total nitrogen (TN) limit of 5 mg/L (Specification A.7) can also be met at the lysimeters (Table 2-5a) or at locations specified in alternative monitoring plans (Table 2-5b, and discussed in further detail in Section 2.B). During 3Q15, there were no exceedances of the TN limit.

In the GRRP Regulations adopted by the DDW on June 18, 2014, the new TN limit for recycled water recharge is 10 mg/L. In anticipation of the adoption of these new Groundwater Replenishment Regulations, IEUA submitted a letter to the DDW and the Regional Board on March 12, 2014, requesting the higher TIN limit in the proposed regulations be adopted for the Chino Basin Recycled Water Groundwater Recharge Program. Per the request of the Regional Board, additional data was submitted to support the increased TN limit. IEUA has yet to receive approval of the new limit and continues to report based on the 5 mg/L limit.

Recycled Water Specifications A.1 through A.4 of the Order are numerical limits based on the EPA's primary maximum contaminant levels (MCLs), secondary MCLs, and Action Levels. Recycled Water Specification A.15 is a numerical limit for oil and grease. The corresponding monitoring data used to

determine compliance with the Order are presented in Table 2-3. Due to the volume of samples required for laboratory analyses, IEUA selected, and DDW approved, a sampling point along the recycled water distribution pipeline as the compliance point for the numerical limits. IEUA selected the turnout to NRG California South, LP (formerly Reliant Energy) as representative of the system blend of recycled water used for recharge.

In the Order, compliance for all constituents with MCLs or Action Levels is based on a 4-quarter running average (Recycled Water Specifications A.1 through A.4). Table 2-3 summarizes the 4-quarter running average concentration data for each parameter from 4Q14 through 3Q15, and lists the corresponding limits for compliance.

For the parameters that were analyzed during 3Q15, there were no exceedances in the following categories: primary MCLs for inorganic chemicals, volatile organic compounds (VOCs), non-volatile synthetic organic chemicals (SOCs), radionuclides, and disinfection byproducts; action levels for lead and copper; secondary MCLs for required constituents, with the exception of odor; and oil and grease.

Odor has a secondary MCL of 3 Units in Recycled Water Specification A.3. The 4-quarter running average for 3Q15 was 16 Units, causing the threshold odor compliance metric to exceed the secondary MCL. The odor has been identified by Eaton Analytical (contract laboratory) as chlorine. Recycled water used for groundwater recharge must meet disinfected tertiary recycled water standards in accordance to Title 22. Sodium hypochlorite is used as the disinfection agent at the RP-1 and RP-4 water recycling facilities; hence, the smell of chlorine is prominent in recycled water and is therefore unavoidable. Order No. R8-2007-0039 allows compliance for secondary MCLs to be determined at the mound monitoring well. Based on the mound monitoring well data (Table 2-8), threshold odor did not exceed 3 Units at any of the monitoring wells during 3Q15.

Although NRG turnout is a suitable sampling location 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, the samples better represent the DBPs present in the recycled water prior to reaching the groundwater table. Once a quarter, a single representative sample is collected from a selected compliance lysimeter and analyzed for DBPs. For the 3Q15 sampling for DBPs, IEUA chose the 25-foot below ground surface lysimeter at the RP3 Basin (RP3-LYS-25) as the compliance point. The RP3 Basin lysimeter was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present at the 25-foot depth based on electrical conductivity (EC) measurements.

For constituents with no specified limits, quarterly monitoring data are summarized in Table 2-4. All required constituents were analyzed in 3Q15, with the exception of Diazinon, N-Nitrosodiethylamine (NDEA), and Propachlor. These three compounds were inadvertently missed due to the implementation of the new GRRP Regulations, which changed the monitoring frequency for State Notification Level (NL) chemicals from annually to quarterly.

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analysis are performed weekly at basins when recycled water is delivered, for the determination of compliance with Recycled Water Specifications A.7, A.10, and A.11. EC is also measured and reported to assist in identifying the presence of recycled water at various depths in the vadose zone. Basin and lysimeter water quality results from 3Q15 are summarized in Table 2-5a. The table includes lysimeter data for Banana, Brooks, and Hickory Basins. During 3Q15, there were no exceedances of TOC and TN at the compliance lysimeters at the abovementioned basins. TN was not analyzed at the required frequency at Banana Basin (7 samples missed, weekly sampling) and Brooks Basins (1 sample missed, monthly sampling)

due to a lapse of communication with DDW and RWQCB. The monitoring frequency and compliance locations were reverted back to their original locations the second week of September 2015.

As indicated in Recycled Water Compliance Determination B.6 of the Order, alternative monitoring programs for TOC and TN compliance under Specifications A.7, A.10 and A11 can be developed based on start-up period findings. The alternative monitoring plans can be found in the Start-Up Period Report for each basin. The alternative TOC and TN monitoring plans approved by the Regional Board and DDW for Turner, RP3, Ely, 8th Street, San Sevaine, and Victoria Basins include alternative monitoring locations (RP1 effluent for Ely Basin, and recycled water at the NRG turnout for all other basins), and the application of correction factors for soil aquifer treatment (SAT). The following correction factors were determined from each basin's start-up period findings:

- Turner 1 & 2: TOC reduction of 70 percent and TN reduction of 87 percent
- Turner 3 & 4: TOC reduction of 85 percent and TN reduction of 87 percent
- Ely Basins: TOC reduction of 76 percent and TN reduction of 52 percent
- RP3 Basin: TOC reduction of 88 percent and TN reduction of 31 percent
- 8th Street Basin: TOC reduction of 59 percent and TN reduction of 75 percent
- San Sevaine 5: TOC reduction of 78 percent and TN reduction of 69 percent
- Victoria: TOC reduction of 78 percent and TN reduction of 82 percent

The TOC and TN values calculated based on the alternative monitoring locations and the application of these correction factors listed above are summarized in Table 2-5b.

An alternative monitoring plan has also been implemented at the Brooks Basin based on start-up period findings. The Brooks Basin alternative monitoring plan includes monthly sampling of the Brooks Basin surface water, 25-foot lysimeter, and monitoring well BRK-1/1 for EC, TOC, and TN to be conducted as long as recycled water has been recharged in the prior 180 days. Additionally, chloride will be analyzed for BRK-1/1 and used to verify the presence of recycled water. The 25-foot lysimeter will be the compliance point for TN and the monitoring well will be the compliance point for TOC. Brooks Basin alternative monitoring data are summarized in Table 2-5b.

On July 29, 2013, the Regional Board approved the relocation of Hickory Basin TN compliance point from HKYE-LYS-25 to groundwater mound monitoring well, BH-1/2. The TN monitoring data for BH-1/2 can be found in Table 2-5b.

During 3Q15, there were no exceedances of TOC and TN at the basins that have implemented alternative monitoring plans.

C. Diluent Water

For 3Q15, diluent water quality sampling of local runoff was conducted during the month of September 2015. 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 DDW-approved Diluent Water Monitoring 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 (1st and 4th quarters) and local runoff is sampled during the dry season (2nd and 3rd quarters). Samples are collected at about half the locations during each seasonal quarter, alternating between even and odd years. Table 5-1 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 of the MRP. During 3Q15, the Deer Creek sample exceeded the "maximum level to trigger source water evaluation" for bromate, a

disinfection byproduct. IEUA is currently in the process of evaluating the local runoff and stormwater data to comply with the new GRRP Regulations.

D. Groundwater Monitoring Wells

Monitoring is conducted at groundwater monitoring wells quarterly and annually to evaluate groundwater 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 that recharged water has on downgradient water supplies. The wells in the monitoring well networks for Hickory and Banana, Turner, 8th Street, Ely, Brooks, RP3, and San Sevaine and Victoria Basins are summarized in Table 2-7, and presented on Figures 2-1 through 2-7, respectively. Groundwater quality samples are collected and tested quarterly for all constituents listed in Table 1 of Section V in the MRP R8-2007-0039, and annually for constituents specified in the Phase II Findings of Fact, Attachment A in the permit (Bullet 27 in the Conditions Section). The groundwater constituents analyzed from the monitoring wells during quarterly monitoring are presented in Table 2-8a.

Any 3Q15 sample which exceeded primary or secondary MCLs are shown in the table in bold italic font. The DDW is notified within 48 hours of receiving the results for primary MCL exceedances or coliform presence at active municipal drinking water wells. Exceedances of primary MCLs and coliform presence at non-drinking water monitoring wells and all secondary MCL exceedances will only be reported in the quarterly reports. Of note are the analyses for the following wells and constituents:

Turbidity exceeding the secondary MCL of 5 NTU was observed in seven monitoring wells, namely: T-1/2, BRK-2/1, Ely MW1, and VCT-1/1. The secondary MCL of 15 units for color was also exceeded at BRK-2/1.

TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 µmhos/cm, respectively, in Southridge JHS and Ely MW2 (Walnut). Alcoa MW3 and Bishop of San Bernardino Corporation exceeded the TDS secondary MCL. The wells south of the Ely Basins and near the RP3 Basins are located in areas where the TDS and EC concentrations in groundwater are naturally elevated. The distribution of TDS concentrations observed at wells in the Chino Basin is summarized in Watermaster's State of the Basin Reports.

Some monitoring wells in the Banana & Hickory, RP3, 8th Street, Brooks, and Ely monitoring networks have nitrate as nitrogen (NO_3-N) concentrations above the primary MCL of 10 mg/L. These higher levels of NO_3-N are characteristic of groundwater in these portions of the Chino Basin, where historically the NO_3-N concentrations range from 10-30 mg/L, as reported in Watermaster's State of the Basin reports. No notifications were made to the DDW as these high NO_3-N concentrations are comparable to the ambient NO_3-N concentration in groundwater for each monitoring well's respective groundwater management zone within the Chino Basin. The distribution of NO_3-N concentrations observed at wells in the Chino Basin is summarized in Watermaster's State of the Basin Reports.

The current State of the Basin Report, which is the "Chino Basin Optimum Basin Management Program 2014 State of the Basin Report" published in June 2015 was prepared by Wildermuth Environmental for the Chino Basin Watermaster.

Total coliform was detected at Ontario Well No. 38, Southridge JHS, Alcoa MW1, BRK-2/1, and Unitex 91090. The total coliform found at these well locations did not come from recycled water, as the total coliform levels found in the recycled water are usually non-detect. In accordance with the MRP, notification to the DDW of coliform presence in municipal drinking water wells must be made within 48 hours of receiving the results. On November 9, 2015, IEUA belatedly notified the DDW of coliform presence at Ontario Well No. 38.

The new GRRP Regulations requires that downgradient monitoring wells (two downgradient monitoring wells with at least one monitoring well located: (A) no less than two weeks but no more than six months of travel through the saturated zone affected by the project, and (B) at least 30 days upgradient of the nearest drinking water well) be monitored quarterly for Priority Toxic Pollutants. The table below shows the monitoring wells that meet the (A) and (B) criteria specified above. The priority pollutants analysis results for these downgradient monitoring wells are summarized in Table 2-8b.

Basins	Monitoring Well (A)	Monitoring Well (B)
8th Street	8TH-1/2	8TH-2/1
Banana & Hickory	BH-1/2	Reliant Energy – East Well
Brooks	BRK-1/1	BRK-2/1
Ely	Ely MW1	Ely MW2
RP3	RP3-1/1	Southridge JHS
Turner	T-1/2	T-2/2
Victoria & San Sevaine	SS-1/1 & VCT-1/1	VCT-2/1

The new GRRP Regulations required that several wells to be added to the monitoring program for annual compliance monitoring which were not part of the annual monitoring program in the 2007 Phase II Finding of Facts of the DDW (formally State of California Department of Health Services), including wells: BH-1/2, Reliant Energy East Well, RP3-1/1, Southridge JHS, T-1/2, and T-2/2. The 2015 sampling of these wells took place during 3Q15 to comply with the new annual requirement. The analysis results are presented in Table 2-8c. The annual sampling event for the monitoring wells specified in the Phase II Findings of Facts took place during 1Q15.

3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to all basins. The Banana, Brooks, Ely, Hickory, RP3, Turner, and Victoria Basins received recycled water this quarter. Table 3-1 lists the volumes of recycled water and diluent water (local runoff, stormwater, and/or imported water) captured during 3Q15 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 Water Recycling Facilities - RP-1 & RP-4 and recharge operations.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 3Q15 for domestic or municipal use from the buffer zones that extend 500 feet and 6 months underground travel time from the 8th Street, Banana, Brooks, Ely, Hickory, RP3, San Sevaine, Turner, and Victoria Basins. In fact, there are no domestic or municipal production wells within the buffer zones of these aforementioned recharge sites.

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 recharge basin location maps and parcel lists, both provided by IEUA. The maps and lists show township/range/section parcels (40-acre parcels) that abut recharge basins and their 500-foot buffers.

If a proposed well falls within an abutting parcel, SBCDEHS will review the 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 identify the exact location of the proposed well casing. To conduct a detailed field review, SBCDEHS will contact and provide the 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 DDW and the Regional Board of well permit applications that it recommends should be declined due to well locations determined to fall with a 500-foot buffer zone.

6. MVWD ASR Project

Reporting for the Monte Vista Water District (MVWD) Aquifer Storage and Recovery (ASR) project was allowed by the Regional Board to be included under IEUA/Watermaster 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. In May 2008, MVWD discontinued groundwater injection at the ASR wells for an extended period of time. In June 2011, MVWD groundwater injection activities resumed at four ASR wells. MVWD continued injection of imported water through September 2011. No significant volume of imported water has been injected since September 2011. During the last four quarters (4Q14 through 3Q15), no imported water was injected into the groundwater basin. 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 2015
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

	RP-1 Effluent										RP-4 Effluent									
	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC [7]	TDS [3]	Hardness	Coliform [1,2,4]	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC	TDS [3]	Hardness	Coliform [1,2,4]
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
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
07/01/15	0.6	5.6	5.7		5.8	7.1	847			<2	0.7	4.3	3.3		3.4	7.2	798			<2
07/02/15	0.6	5.5	5.9		6.0	7.1	862			<2	0.6	4.2	3.7		3.8	7.3	805			<2
07/03/15	0.5	5.7				7.0	852			<2	0.6	4.0				7.3	807			<2
07/04/15	0.5	5.1				7.1	874			<2	0.7	4.1				7.3	805			<2
07/05/15	0.5	5.1	7.5	7.6	7.6	7.1	863	484	156	<2	0.7	4.1	2.4	2.5	2.5	7.3	797	484	148	<2
07/06/15	0.5	5.3	7.2		7.3	7.1	852			2	0.7	4.2	3.1		3.2	7.2	804			<2
07/07/15	0.6	5.3	7.3		7.4	7.1	833			<2	0.6	4.2	3.0		3.1	7.3	799			<2
07/08/15	0.5	5.2	6.4		6.5	7.1	287			<2	0.6	4.0	3.5		3.6	7.4	816			<2
07/09/15	0.5	5.1	6.2		6.3	7.2	830			<2	0.6	3.9	4.9		5.0	7.4	789			<2
07/10/15	0.5	5.0				7.2	838			<2	0.6	3.8				7.3	838			<2
07/11/15	0.5	4.9				7.2	795			<2	0.6	3.8				7.3	831			<2
07/12/15	0.4	4.9	6.6	6.7	6.7	7.2	780	480		<2	0.6	4.0	4.3	4.4	4.4	7.3	829	502		<2
07/13/15	0.5	4.9	6.4		6.5	7.2	799			<2	0.6	4.0	3.6		3.7	7.3	812			<2
07/14/15	0.6	4.9	6.3		6.4	7.1	825			<2	0.5	4.1	3.6		3.7	7.3	834			<2
07/15/15	0.4	4.6	6.4		6.5	7.1	834			<2	0.6	4.0	4.5		4.6	7.3	840			<2
07/16/15	0.4	4.8	6.5		6.6	7.1	795			<2	0.6	3.9	5.3		5.4	7.3	802			<2
07/17/15	0.4	4.9				7.1	757			<2	0.6	3.9				7.3	803			<2
07/18/15	0.4	4.9				7.1	838			<2	0.7	4.0				7.2	811			<2
07/19/15	0.4	5.2	6.7	6.8	6.8	7.1	823	472		<2	0.8	4.2	5.3	5.4	5.4	7.3	810	492		<2
07/20/15	0.5	5.1	5.6		5.7	7.1	821			<2	0.8	4.2	4.2		4.3	7.3	817			<2
07/21/15	0.4	5.0	4.9		5.0	7.1	744			<2	0.7	4.2	3.9		4.0	7.3	836			<2
07/22/15	0.4	5.0	5.5		5.6	7.2	802			<2	0.7	4.1	4.3		4.4	7.3	841			<2
07/23/15	0.4	4.9	5.5		5.6	7.2	656			<2	0.7	4.0	4.7		4.8	7.3	833			<2
07/24/15	0.4	4.8				7.1	690			<2	0.6	3.8				7.3	845			<2
07/25/15	0.5	4.7				7.2	726			<2	0.6	3.8				7.3	835			<2
07/26/15	0.5	4.7	5.0	5.1	5.1	7.2	705	470		<2	0.6	3.7	4.5	5.3	4.5	7.3	817	470		<2
07/27/15	0.4	4.8	4.7		4.7	7.2	652			<2	0.5	3.8	4.2		4.2	7.4	809			<2
07/28/15	0.4	5.0	4.5		4.5	7.2	653			<2	0.5	3.8	4.4		4.4	7.3	818			<2
07/29/15	0.4	4.9	4.8		4.8	7.2	759			<2	0.5	3.7	4.9		4.9	7.3	809			<2
07/30/15	0.4	4.7	5.4		5.5	7.2	797			2	0.4	3.7	5.2		5.3	7.3	798			<2
07/31/15	0.5	4.8				7.2	804			<2	0.4	3.6				7.3	821			<2
Avg	0.5	5.0	6.0	6.5	6.0	7.1	774	477	156	<2	0.6	4.0	4.1	4.4	4.2	7.3	816	487	148	<2
Min	0.4	4.6	4.5	5.1	4.5	7.0	287	470	156	<2	0.4	3.6	2.4	2.5	2.5	7.2	789	470	148	<2
Max	0.6	5.7	7.5	7.6	7.6	7.2	874	484	156	2	0.8	4.3	5.3	5.4	5.4	7.4	845	502	148	<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. CA8000409, Order No. R8-2009-0021.

[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.

[7] These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1b
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for August 2015
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

	RP-1 Effluent										RP-4 Effluent									
	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC [7]	TDS [3]	Hardness	Coliform [1,2,4]	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC	TDS [3]	Hardness	Coliform [1,2,4]
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
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
08/01/15	0.5	4.7				7.2	860			<2	0.5	3.7				7.3	823			<2
08/02/15	0.5	4.7	5.7	5.7	5.7	7.1	759	470	158	<2	0.5	3.8	3.9	3.9	3.9	7.3	819	480	147	<2
08/03/15	0.5	4.9	4.6		4.6	7.2	718			<2	0.5	3.9	3.5		3.5	7.3	808			<2
08/04/15	0.5	4.9	4.7		4.8	7.1	772			<2	0.5	4.0	3.6		3.7	7.3	820			<2
08/05/15	0.5	4.7	5.4		5.4	7.1	927			2	0.5	3.8	4.7		4.7	7.2	823			<2
08/06/15	0.5	4.6	5.4		5.5	7.1	921			<2	0.4	3.7	4.8		4.9	7.3	815			<2
08/07/15	0.5	4.6				7.1	877			<2	0.4	3.6				7.3	817			<2
08/08/15	0.4	4.8				7.0	873			<2	0.4	3.7				7.3	812			<2
08/09/15	0.4	5.0	5.8	5.9	5.9	7.1	875	466		<2	0.5	3.8	4.8	4.9	4.9	7.3	773	472		<2
08/10/15	0.4	5.0	5.7		5.7	7.2	871			<2	0.5	4.0	3.9		3.9	7.3	807			<2
08/11/15	0.5	5.0	4.5		4.6	7.1	859			<2	0.4	3.9	3.7		3.8	7.3	823			<2
08/12/15	0.5	4.7	4.9		4.9	7.1	866			<2	0.4	3.8	4.6		4.6	7.3	828			<2
08/13/15	0.5	4.6	6.4		6.5	7.1	793			<2	0.5	3.7	5.3		5.4	7.2	822			<2
08/14/15	0.6	4.6				7.1	825			<2	0.4	3.6				7.3	816			<2
08/15/15	0.6	4.7				7.1	866			<2	0.4	3.6				7.3	802			<2
08/16/15	0.7	4.6	6.1	6.1	6.1	7.1	898	476		<2	0.4	3.6	4.1	5.0	4.1	7.3	792	442		<2
08/17/15	0.7	4.6	6.2		6.3	7.1	903			<2	0.5	4.9	3.2		3.3	7.3	786			<2
08/18/15	0.7	4.6	6.3		6.4	7.1	880			<2	0.4	3.6	3.4		3.5	7.3	788			<2
08/19/15	0.7	4.9	5.7		5.7	7.1	867			<2	0.4	3.6	4.1		4.1	7.3	794			<2
08/20/15	0.7	4.7	5.3		5.3	7.1	878			<2	0.4	3.5	4.8		4.8	7.2	775			<2
08/21/15	0.7	4.7				7.0	883			<2	0.4	3.5				7.2	785			<2
08/22/15	0.7	4.8				7.0	855			2	0.4	3.6				7.2	775			<2
08/23/15	0.8	4.9	4.5	4.5	4.5	7.0	882	506		<2	0.4	3.7	3.9	4.7	3.9	7.2	771	446		<2
08/24/15	0.8	5.0	4.5		4.5	7.1	869			<2	0.5	3.8	3.2		3.2	7.2	761			<2
08/25/15	0.7	5.0	4.4		4.5	7.0	861			<2	0.5	3.8	3.0		3.1	7.2	781			<2
08/26/15	0.6	5.0	4.8		4.9	7.0	898			<2	0.5	3.8	4.4		4.5	7.2	799			<2
08/27/15	0.6	5.0	4.8		4.9	7.0	968			<2	0.5	3.6	5.0		5.1	7.2	782			<2
08/28/15	0.6	4.7				7.0	959			<2	0.5	3.6				7.2	781			<2
08/29/15	0.6	4.8				7.0	958			<2	0.5	3.7				7.2	782			<2
08/30/15	0.6	4.8	6.1	6.2	6.2	7.1	944	516		<2	0.6	3.8	4.1	4.2	4.2	7.2	790	476		<2
08/31/15	0.6	4.9	5.9		6.0	7.1	938			<2	0.6	4.0	3.0		3.1	7.2	782			<2
Avg	0.6	4.8	5.4	5.7	5.4	7.1	874	487	158	<2	0.5	3.8	4.0	4.5	4.1	7.2	798	463	147	<2
Min	0.4	4.6	4.4	4.5	4.5	7.0	718	466	158	<2	0.4	3.5	3.0	3.9	3.1	7.2	761	442	147	<2
Max	0.8	5.0	6.4	6.2	6.5	7.2	968	516	158	2	0.6	4.9	5.3	5.0	5.4	7.3	828	480	147	<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. CA8000409, Order No. R8-2009-0021.

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

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

[7] These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

Table 2-1c
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for September 2015
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

	RP-1 Effluent										RP-4 Effluent									
	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC [7]	TDS [3]	Hardness	Coliform [1,2,4]	Turbidity [1,2,7]	TOC	NO_3-N	TN	TIN [3]	pH [7]	EC	TDS [3]	Hardness	Coliform [1,2,4]
Unit	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
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
09/01/15	0.6	4.8	6.5		6.6	7.0	961			<2	0.5	3.9	3.3		3.4	7.2	798			<2
09/02/15	0.6	4.9	7.1		7.2	6.9	899			<2	0.5	3.8	4.7		4.8	7.2	825			<2
09/03/15	0.5	4.8	7.9		8.0	6.9	838			2	0.5	3.7	6.2		6.3	7.2	797			<2
09/04/15	0.5	4.9				7.0	828			4	0.5	3.7				7.2	796			<2
09/05/15	0.5	4.8				7.0	848			<2	0.6	3.9				7.2	794			<2
09/06/15	0.5	4.8				7.1	824			<2	0.7	3.9				7.2	795			<2
09/07/15	0.6	4.8	7.7	7.8	7.8	7.0	873	504	157	<2	0.7	4.1	4.8	5.5	4.9	7.2	794	458	150	<2
09/08/15	0.6	5.0	6.4		6.5	7.0	864			<2	0.9	4.2	3.3		3.4	7.2	799			<2
09/09/15	0.8	5.2	4.9		5.0	7.0	860			<2	0.7	4.1	3.8		3.9	7.2	790			<2
09/10/15	0.7	5.0	4.9		5.0	7.2	829			<2	0.7	3.9	5.0		5.1	7.3	787			<2
09/11/15	0.7	4.8				7.1	854			<2	0.8	3.8				7.3	791			<2
09/12/15	0.6	4.9				7.1	844			<2	1.0	4.0				7.3	786			<2
09/13/15	0.6	4.9	3.5	3.6	3.6	7.2	818	496		<2	1.2	4.2	5.5	6.8	5.6	7.2	786	484		<2
09/14/15	0.6	4.8	4.2		4.3	7.2	867			<2	1.3	4.3	4.3		4.4	7.3	791			<2
09/15/15	0.6	4.9	4.4		4.5	7.2	849			<2	1.4	4.1	4.7		4.8	7.3	794			<2
09/16/15	0.5	5.0	4.5		4.6	7.2	703			<2	1.0	4.1	6.3		6.4	7.2	793			<2
09/17/15	0.7	4.9	5.3		5.4	7.2	831			<2	0.9	4.0	7.2		7.3	7.1	792			<2
09/18/15	0.6	4.9				7.2	673			<2	1.0	3.9				7.1	802			<2
09/19/15	0.7	4.7				7.2	620			<2	1.1	4.0				7.1	822			<2
09/20/15	0.7	4.9	5.9	6.0	6.0	7.2	589	498		<2	1.2	4.1	5.8	6.4	5.9	7.1	809	484		<2
09/21/15	0.8	4.9	5.9		6.0	7.3	594			<2	1.2	4.3	4.2		4.3	7.1	805			<2
09/22/15	0.8	4.9	6.2		6.3	7.3	867			<2	1.0	4.1	4.2		4.3	7.1	800			<2
09/23/15	0.8	5.0	5.5		5.6	7.3	907			<2	1.0	4.1	5.0		5.1	7.1	784			<2
09/24/15	0.8	4.6	5.4		5.5	7.3	1010			<2	0.9	3.8	5.6		5.7	7.3	797			<2
09/25/15	0.9	4.7				7.2	1045			<2	0.9	3.6				7.3	792			<2
09/26/15	0.8	4.7				7.2	1025			<2	0.9	3.7				7.2	807			<2
09/27/15	0.7	4.6	4.4	4.5	4.5	7.3	1060	480		<2	1.1	3.9	3.6	3.7	3.7	7.2	816	464		<2
09/28/15	0.7	4.8	4.1		4.2	7.2	1112			<2	0.9	3.7	3.3		3.4	7.2	807			<2
09/29/15	0.8	4.8	3.6		3.6	7.2	1109			<2	0.7	3.7	3.3		3.3	7.3	808			<2
09/30/15	0.7	5.5	3.9		3.9	7.2	1093			<2	0.8	3.9	4.2		4.2	7.2	805			<2
Avg	0.7	4.9	5.3	5.5	5.4	7.1	870	495	157	<2	0.9	3.9	4.7	5.6	4.7	7.2	799	473	150	<2
Min	0.5	4.6	3.5	3.6	3.6	6.9	589	480	157	<2	0.5	3.6	3.3	3.7	3.3	7.1	784	458	150	<2
Max	0.9	5.5	7.9	7.8	8.0	7.3	1112	504	157	4	1.4	4.3	7.2	6.8	7.3	7.3	825	484	150	<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. CA8000409, Order No. R8-2009-0021.

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

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

[7] These values based on continuous monitoring data generated by the Supervisory Control and Data Acquisition (SCADA) system.

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-14	4.9	5.2	541	512
Nov-14	5.9	5.1	571	518
Dec-14	6.2	5.0	565	522
Jan-15	7.9	5.2	546	525
Feb-15	7.4	5.3	560	529
Mar-15	6.2	5.4	528	532
Apr-15	5.2	5.4	531	533
May-15	6.1	5.4	520	533
Jun-15	4.6	5.4	515	534
Jul-15	5.2	5.6	500	534
Aug-15	4.7	5.7	503	534
Sep-15	4.8	5.7	508	532
Avg	6.0	5.3	542	526
Min	4.6	5.0	515	512
Max	7.9	5.4	571	534
Limit		8.0		550

Date source: IEUA NPDES monthly self-monitoring report (MRP No. R8-2009-0021).
Per the Regional Board, TDS is calculated using the flow-weighted averages based on discharged effluent flows and recycled water flows; TIN is calculated using the flow-weighted averages based on discharged effluent flows only.
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	4Q14	1Q15	2Q15	3Q15	4Q Run. Avg.[1]	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	40	40	34	31	36	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	<0.8	<2.0	<0.7	RM	<2.0	7	MFL	EPA 100.2
Barium	11	16	11	10	12	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	0.6	0.6	0.8	0.7	0.7	50	µg/L	EPA 200.8
Chromium VI	0.19	0.26	0.17	0.23	0.21	10	µg/L	EPA 218.6
Cyanide	<5	<20	<0.02	<0.02	<20	150	µg/L	SM 4500-CN E
Fluoride	0.2	0.2	0.3	0.2	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	1	2	2	2	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
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 524.2/624
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2/624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2/624
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2/624
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2/624
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2/624
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2/624
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2/624
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2/624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2/624
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2/624
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2/624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2/624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2/624
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2/624
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2/624
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 [2]	µg/L	EPA 524.2/624
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		µg/L	EPA 524.2/624
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*	<0.5	<0.5	<0.5	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*	<0.2	<0.2	<0.2	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	4	6	3	5	5	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*	<0.5	<0.5	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6*	<0.5	<0.5	<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

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

Constituent	4Q14	1Q15	2Q15	3Q15	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*	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05*	<0.5	<0.5	<0.5	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*	<0.5	<0.5	<0.5	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*	<0.5	<0.5	<0.5	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2*	<0.5	<0.5	<0.5	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	5.4	6.4	4.0	7.2	5.8	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	<0.57	0.25	<0.42	<0.26	<0.57	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<2	<3	<3	6	<4	15	pCi/L	EPA 900.0/SM7110C
Tritium	<1000	<299	<1000	<322	<1000	20,000	pCi/L	EPA 906
Strontium-90	<0.49	<0.82	<0.52	<0.34	<0.82	8	pCi/L	EPA 905
Gross Beta Particle Activity	14	14	12	13	13	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	40	40	34	31	36	200	µg/L	EPA 200.8
Copper	5.4	6.4	4.0	7.2	5.7	1000	µg/L	EPA 200.8
Corrosivity [3]	-0.7 (Non-Cor.)	-1.0 (Non-Cor.)	-0.7 (Non-Cor.)	-0.3 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) [3]	0.07	0.06	0.09	0.11	0.08	0.5	mg/L	S5540C/EPA 425.1
Iron [3]	42	29	NR	NR	103	300	µg/L	EPA 200.7
Manganese	14	13	10	19	14	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]	8	8	8	40	**16**	3	TON	SM 2150B
Silver	<0.25	<0.25	0.74	<0.25	<0.37	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2*	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Zinc	40	42	27	29	34	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	<1	2	<1	<1	<5	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
Lysimeter Compliance Point Data	HKYE-LYS-25 4Q14	RP3-LYS-25 1Q15	RP3-LYS-25 2Q15	RP3-LYS-25 3Q15				
Total Trihalomethanes (TTHMs)	28	<4	4	4	10	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

RM: Reduced monitoring for asbestos from quarterly to every 3 years in accordance with new groundwater recharge regulations

[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	3Q15	Unit	Method
Metals			
Chromium (III) [1]	0.7	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)			
Acrolein	NR	µg/L	EPA 624
Acrylonitrile	NR	µg/L	EPA 624
Bromoform	<0.5	µg/L	EPA 524.2/624
Chlorodibromomethane	4.6	µg/L	EPA 524.2/624
Chloroethane	<0.5	µg/L	EPA 524.2/624
2-Chloroethylvinylether	NR	µg/L	EPA 524.2/624
Chloroform	68.8	µg/L	EPA 524.2/624
Dichlorobromomethane	19.2	µg/L	EPA 524.2/624
Methyl Bromide	<1	µg/L	EPA 524.2/624
Methyl Chloride	3.7	µg/L	EPA 524.2/624
Acid Extractibles			
2-Chlorophenol	NR	µg/L	EPA 625
2,4-Dichlorophenol	NR	µg/L	EPA 625
2,4-Dimethylphenol	NR	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	NR	µg/L	EPA 625
2,4-Dinitrophenol	NR	µg/L	EPA 625
2-Nitrophenol	NR	µg/L	EPA 625
4-Nitrophenol	NR	µg/L	EPA 625
4-Chloro-3-methylphenol	NR	µg/L	EPA 625
Phenol	NR	µg/L	EPA 625
2,4,6-Trichlorophenol	NR	µg/L	EPA 625
Base/Neutral Extractibles			
Acenaphthene	NR	µg/L	EPA 625
Acenaphthylene	NR	µg/L	EPA 625
Anthracene	NR	µg/L	EPA 625
Benzidine	NR	µg/L	EPA 625
Benzo(a)anthracene	NR	µg/L	EPA 625
Benzo(b)fluoranthene	NR	µg/L	EPA 625
Benzo(g,h,i)perylene	NR	µg/L	EPA 625
Benzo(k)fluoranthene	NR	µg/L	EPA 625
Bis(2-chloroethoxy)methane	NR	µg/L	EPA 625
Bis(2-chloroethyl)ether	NR	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	NR	µg/L	EPA 625
4-Bromophenyl phenyl ether	NR	µg/L	EPA 625
Butyl benzyl phthalate	NR	µg/L	EPA 625
2-Chloronaphthalene	NR	µg/L	EPA 625
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625
Chrysene	NR	µg/L	EPA 625
Dibenzo(a,h)anthracene	NR	µg/L	EPA 625
1,3-Dichlorobenzene	NR	µg/L	EPA 625
3,3-Dichlorobenzidine	NR	µg/L	EPA 625
Diethyl phthalate	NR	µg/L	EPA 625
Dimethyl phthalate	NR	µg/L	EPA 625
Di-n-butyl phthalate	NR	µg/L	EPA 625
2,4-Dinitrotoluene	NR	µg/L	EPA 625
2,6-Dinitrotoluene	NR	µg/L	EPA 625
Di-n-octyl phthalate	NR	µg/L	EPA 625
Azobenzene	NR	µg/L	EPA 625
Fluoranthene	NR	µg/L	EPA 625
Fluorene	NR	µg/L	EPA 625
Hexachlorobutadiene	NR	µg/L	EPA 625
Hexachlorocyclopentadiene	NR	µg/L	EPA 625
Hexachloroethane	NR	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625
Isophorone	NR	µg/L	EPA 625
Naphthalene	NR	µg/L	EPA 625
Nitrobenzene	NR	µg/L	EPA 625
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625
N-Nitrosodiphenylamine	NR	µg/L	EPA 625
Phenanthrene	NR	µg/L	EPA 625
Pyrene	NR	µg/L	EPA 625

Constituent	3Q15	Unit	Method
Pesticides			
Aldrin	NR	µg/L	EPA 608
BHC, alpha isomer	NR	µg/L	EPA 608
BHC, beta isomer	NR	µg/L	EPA 608
BHC, delta isomer	NR	µg/L	EPA 608
4,4'-DDT	NR	µg/L	EPA 608
4,4'-DDE	NR	µg/L	EPA 608
4,4'-DDD	NR	µg/L	EPA 608
Dieldrin	NR	µg/L	EPA 608
Endosulfan I	NR	µg/L	EPA 608
Endosulfan II	NR	µg/L	EPA 608
Endosulfan Sulfate	NR	µg/L	EPA 608
Unregulated Chemicals			
Endrin Aldehyde	NR	µg/L	EPA 608
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			
Boron	0.2	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	560	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	µg/L	EPA 524.2
Diazinon	*	µg/L	EPA 525.2
Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2
1,4 - Dioxane	1.2	µg/L	EPA 522
Ethylene glycol	<5	mg/L	EPA 8015B
Formaldehyde	37	µg/L	EPA 556
HMX	<0.4	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)	*	ng/L	EPA 521
N-nitrosodimethylamine (NDMA)	<2	ng/L	EPA 521
Propachlor	*	µg/L	EPA 525.2
N-propylbenzene	<0.5	µg/L	EPA 524.2
RDX	<0.4	µg/L	EPA 8330B
Tertiary butyl alcohol	<2	µg/L	EPA 524.2
1,2,3-Trichloropropane (1,2,3-TCP)	<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	<0.4	µg/L	EPA 8330B
Vanadium	5	µg/L	EPA 200.8
Endocrine Disrupting Chemicals, Pharmaceuticals and Other Chemicals[2]			
Acetominophen	NR	ng/L	LC-MS-MS
Bis Phenol A (BPA)	NR	ng/L	LC-MS-MS
Caffeine	NR	ng/L	LC-MS-MS
Carbamazepine	NR	ng/L	LC-MS-MS
DEET	NR	ng/L	LC-MS-MS
Estradiol	NR	ng/L	LC-MS-MS
Estrone	NR	ng/L	LC-MS-MS
Ethinyl Estradiol - 17 alpha	NR	ng/L	LC-MS-MS
Fluoxetine	NR	ng/L	LC-MS-MS
Gemfibrozil	NR	ng/L	LC-MS-MS
Ibuprofen	NR	ng/L	LC-MS-MS
Iopromide	NR	ng/L	LC-MS-MS
Progesterone	NR	ng/L	LC-MS-MS
Sucralose	NR	ng/L	LC-MS-MS
Sulfamethoxazole	NR	ng/L	LC-MS-MS
Testosterone	NR	ng/L	LC-MS-MS
Triclosan	NR	ng/L	LC-MS-MS
Trimethoprim	NR	ng/L	LC-MS-MS
Warfarin	NR	ng/L	LC-MS-MS

[1] Trivalent chromium is measured as total chromium

*New groundwater recharge regulations (implemented 3Q15) increased monitoring from annually to quarterly. Analysis for these compounds were inadvertently missed during 3Q15.

NR: Not Required (Annual Requirement)

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

Banana Basin

Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	TN* (Limit = 5 mg/L)	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	07/15/15	9.21	2.9		0.8	2.1	0.13	721
BNA-LYS-00	0	07/22/15	5.99	6.4	5.1	5.0	1.4	0.11	779
BNA-LYS-00	0	07/29/15	5.66	3.1	1.4	0.9	2.2	0.30	805
BNA-LYS-00	0	08/05/15	7.93						832
BNA-LYS-00	0	08/12/15	4.47						812
BNA-LYS-00	0	08/19/15	4.63						808
BNA-LYS-00	0	08/26/15	4.97						740
BNA-LYS-00	0	09/02/15	4.65						792
BNA-LYS-00	0	09/09/15	4.90						791
BNA-LYS-00	0	09/16/15	11.6						202
BNA-LYS-00	0	09/23/15	6.95						804
BNA-LYS-00	0	09/30/15	4.76						817
BNA-LYS-25**	25	07/01/15	1.93	0.7	0.7	0.6	<0.5	0.08	704
BNA-LYS-25**	25	07/08/15	0.87	4.8	4.8	4.7	<0.5	0.07	737
BNA-LYS-25**	25	07/15/15	0.98	5.0		4.9	<0.5	0.11	711
BNA-LYS-25**	25	07/22/15	0.85	5.2	5.2	5.1	<0.5	0.13	770
BNA-LYS-25**	25	07/29/15	0.91	5.6	5.0	4.9	0.7	0.05	765
BNA-LYS-25**	25	08/05/15	0.89	NA					764
BNA-LYS-25**	25	08/12/15	0.94	NA					799
BNA-LYS-25**	25	08/19/15	1.24	NA					802
BNA-LYS-25**	25	08/26/15	1.10	NA					777
BNA-LYS-25**	25	09/02/15	1.07	NA					764
BNA-LYS-25**	25	09/09/15	1.16	NA					765
BNA-LYS-25**	25	09/16/15		NA		4.9		0.07	806
BNA-LYS-25**	25	09/23/15	1.36	4.0	4.0	3.9	<0.5	0.07	732
BNA-LYS-25**	25	09/30/15	1.10	3.8	3.8	3.7	<0.5	0.05	732

Brooks Basin

Site	Depth, bgs	Date	TOC	TN* (Limit = 5 mg/L)	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	07/08/15	5.12	4.6	3.5	3.4	1.2	<0.01	738
BRK-LYS-00	0	08/05/15	6.30						757
BRK-LYS-00	0	09/09/15	6.41						735
BRK-LYS-00	0	09/30/15		1.2	<0.2	<0.1	1.2	<0.01	626
BRK-LYS-25**	25	07/08/15	2.91	<0.6	<0.2	<0.1	<0.5	0.12	704
BRK-LYS-25**	25	08/05/15	2.73	NA					734
BRK-LYS-25**	25	09/09/15	3.06						723
BRK-LYS-25**	25	09/30/15		<0.6	<0.2	<0.1	<0.5	0.06	904

Hickory East Basin

Site	Depth, bgs	Date	TOC (Limit = 16 mg/L)	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	07/01/15	6.14				1.7	0.09	
HKYE-LYS-00	0	07/08/15	5.46	4.5		2.5	2.0	0.09	803
HKYE-LYS-00	0	07/15/15	7.00	2.6		<0.1	2.6	0.05	773
HKYE-LYS-00	0	07/22/15	7.10	3.9	1.8	1.7	2.2	0.09	730
HKYE-LYS-00	0	07/29/15	6.23	3.3	1.0	0.5	2.8	0.05	781
HKYE-LYS-00	0	08/05/15	6.96						816
HKYE-LYS-00	0	08/12/15	7.33						807
HKYE-LYS-00	0	08/19/15	8.28						790
HKYE-LYS-00	0	08/26/15	11.1						839
HKYE-LYS-00	0	09/02/15	12.3						948
HKYE-LYS-00	0	09/09/15	18.3						1153
HKYE-LYS-00	0	09/16/15	11.6						459
HKYE-LYS-00	0	09/23/15	7.49						688
HKYE-LYS-00	0	09/30/15	7.27						716
HKYE-LYS-25**	25	07/01/15	1.07	4.6	4.6	4.5	<0.5	0.08	757
HKYE-LYS-25**	25	07/08/15	2.04	1.7	1.7	1.6	<0.5	0.07	804
HKYE-LYS-25**	25	07/15/15	2.27	1.8		1.7	<0.5	0.11	805
HKYE-LYS-25**	25	07/22/15	1.67	2.0	1.4	1.3	0.7	0.11	780
HKYE-LYS-25**	25	07/29/15	1.83	2.1	1.1	1.1	1.0	<0.01	256
HKYE-LYS-25**	25	08/05/15	1.89						771
HKYE-LYS-25**	25	08/12/15	1.74						758
HKYE-LYS-25**	25	08/19/15	1.65						758
HKYE-LYS-25**	25	08/26/15	1.69						765
HKYE-LYS-25**	25	09/02/15	1.54						767
HKYE-LYS-25**	25	09/09/15	1.49						778
HKYE-LYS-25**	25	09/16/15							796
HKYE-LYS-25**	25	09/23/15	1.71						945
HKYE-LYS-25**	25	09/30/15	2.09	4.2	4.2	4.2	<0.5	<0.01	811

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

* 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.

** Compliance lysimeter for their respective basin (Specifications A.7, A.10, and A.11 of the Order). The Brooks Basin and Hickory Basin lysimeters are part of alternative monitoring plans; the Brooks Basin lysimeter is only used for compliance with TN, and the Hickory Basin lysimeter is only used for compliance with TOC. Compliance with TOC at Brooks Basin, TN at Hickory Basin, and both constituents at other basins is measured at alternative points (see Table 2-5b)

NA: not analyzed is shown for TN compliance monitoring that was missed during the quarter. Monitoring frequency is monthly for Brooks Basin and weekly for Banana Basin.

Table 2-5b
Alternative Monitoring Plans

Turner Basin					
Date	RW Blend*	RW Blend*	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)
Limit ==>			16 mg/L	16 mg/L	5 mg/L
07/01/15	4.29	4.8	1.29	0.64	0.6
07/08/15	4.34	6.6	1.30	0.65	0.9
07/15/15	4.06	5.3	1.22	0.61	0.7
07/22/15	4.52	7.0	1.36	0.68	0.9
07/29/15	4.33	7.0	1.30	0.65	0.9
08/05/15	3.81	7.0**	1.14	0.57	0.9
08/12/15	3.67	7.0**	1.10	0.55	0.9
08/19/15	3.99	7.3**	1.20	0.60	0.9
08/26/15	4.26	5.4**	1.28	0.64	0.7
09/02/15	3.84	6.8**	1.15	0.58	0.9
09/09/15	4.42	8.4**	1.33	0.66	1.1
09/16/15	4.11	7.8	1.23	0.62	1.0
09/23/15	4.34	7.1	1.30	0.65	0.9
09/30/15	4.41	4.2	1.32	0.66	0.5

Ely Basin				
Date	RP-1 RW	RP-1 RW	Ely 3 East	Ely 3 East
mg/L==>	TOC	TN	TOC (76% reduction)	TN (52% reduction)
Limit ==>			16 mg/L	5 mg/L
07/06/15	5.12	7.6	1.23	3.6
07/13/15	4.87	6.7	1.17	3.2
07/20/15	5.19	7.4	1.25	3.6
07/27/15	4.66	5.9	1.12	2.8
08/03/15	4.72	7.0	1.13	3.4
08/10/15	5.01	7.0	1.20	3.4
08/17/15	4.55	7.3	1.09	3.5
08/24/15	4.88	5.4	1.17	2.6
08/31/15	4.82	6.8	1.16	3.3
09/08/15	4.81	8.4	1.15	4.0
09/14/15	4.94	4.5	1.19	2.2
09/21/15	4.90	6.0	1.18	2.9
09/28/15	4.57	5.2	1.10	2.5

RP3 Basin				
Date	RW Blend*	RW Blend*	RP3	RP3
mg/L==>	TOC	TN	TOC (88% reduction)	TN (31% reduction)
Limit ==>			16 mg/L	5 mg/L
07/01/15	4.29	4.8	0.51	3.3
07/08/15	4.34	6.6	0.52	4.6
07/15/15	4.06	5.3	0.49	3.7
07/22/15	4.52	7.0	0.54	4.8
07/29/15	4.33	7.0	0.52	4.8
08/05/15	3.81	7.0**	0.46	4.8
08/12/15	3.67	7.0**	0.44	4.8
08/19/15	3.99	7.3**	0.48	**5.0**
08/26/15	4.26	5.4**	0.51	**3.7**
09/02/15	3.84	6.8**	0.46	4.7
09/09/15	4.42	8.4**	0.53	5.8
09/16/15	4.11	7.8	0.49	5.4
09/23/15	4.34	7.1	0.52	4.9
09/30/15	4.41	4.2	0.53	2.9

8th Street Basin				
Date	RW Blend*	RW Blend*	8th Street	8th Street
mg/L==>	TOC	TN	TOC (59% reduction)	TN (75% reduction)
Limit ==>			16 mg/L	5 mg/L
07/01/15	4.29	4.8	1.76	1.2
07/08/15	4.34	6.6	1.78	1.7
07/15/15	4.06	5.3	1.66	1.3
07/22/15	4.52	7.0	1.85	1.8
07/29/15	4.33	7.0	1.78	1.8
08/05/15	3.81	7.0**	1.56	1.8
08/12/15	3.67	7.0**	1.50	1.8
08/19/15	3.99	7.3**	1.64	1.8
08/26/15	4.26	5.4**	1.75	1.4
09/02/15	3.84	6.8**	1.57	1.7
09/09/15	4.42	8.4**	1.81	2.1
09/16/15	4.11	7.8	1.69	1.9
09/23/15	4.34	7.1	1.78	1.8
09/30/15	4.41	4.2	1.81	1.1

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the NRG Energy (formerly Reliant Energy) turnout point

**RW Blend was not analyzed for TN on this date, most recent RP-1 effluent TN value used as highest possible TN value.

Table 2-5b
Alternative Monitoring Plans

San Sevaine 5 Basin				
Date	RW Blend*	RW Blend*	San Sevaine 5	San Sevaine 5
mg/L==>	TOC	TN	TOC (78% reduction)	TN (69% reduction)
Limit ==>			16 mg/L	5 mg/L
07/01/15	4.29	4.8	0.94	1.5
07/08/15	4.34	6.6	0.95	2.1
07/15/15	4.06	5.3	0.89	1.6
07/22/15	4.52	7.0	0.99	2.2
07/29/15	4.33	7.0	0.95	2.2
08/05/15	3.81	7.0**	0.84	2.2
08/12/15	3.67	7.0**	0.81	2.2
08/19/15	3.99	7.3**	0.88	2.3
08/26/15	4.26	5.4**	0.94	1.7
09/02/15	3.84	6.8**	0.84	2.1
09/09/15	4.42	8.4**	0.97	2.6
09/16/15	4.11	7.8	0.90	2.4
09/23/15	4.34	7.1	0.95	2.2
09/30/15	4.41	4.2	0.97	1.3

Victoria Basin				
Date	RW Blend*	RW Blend*	Victoria	Victoria
mg/L==>	TOC	TN	TOC (78% reduction)	TN (82% reduction)
Limit ==>			16 mg/L	5 mg/L
07/01/15	4.29	4.8	0.94	0.9
07/08/15	4.34	6.6	0.95	1.2
07/15/15	4.06	5.3	0.89	1.0
07/22/15	4.52	7.0	0.99	1.3
07/29/15	4.33	7.0	0.95	1.3
08/05/15	3.81	7.0**	0.84	1.3
08/12/15	3.67	7.0**	0.81	1.3
08/19/15	3.99	7.3**	0.88	1.3
08/26/15	4.26	5.4**	0.94	1.0
09/02/15	3.84	6.8**	0.84	1.2
09/09/15	4.42	8.4**	0.97	1.5
09/16/15	4.11	7.8	0.90	1.4
09/23/15	4.34	7.1	0.95	1.3
09/30/15	4.41	4.2	0.97	0.8

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the NRG Energy (formerly Reliant Energy) turnout point

**RW Blend was not analyzed for TN on this date, most recent RP-1 effluent TN value used as highest possible TN value.

Brooks Basin				
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00
mg/L==>	TOC	TN	EC	
07/08/15	5.12	4.6	738	
08/05/15	6.30	**	757	
09/09/15	6.41	-	735	
09/30/15	-	1.2	626	
Date	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25
mg/L==>	TOC	TN* (Limit = 5 mg/L)	EC	
07/08/15	2.91	<0.1	704	
08/05/15	2.73	**	734	
09/09/15	3.06	-	723	
09/30/15	-	0.1	904	
Date	BRK-1/1	BRK-1/1	BRK-1/1	BRK-1/1
mg/L==>	TOC* (Limit = 16 mg/L)	TN	EC	Cl
07/07/15	0.75	0.9	690	107
08/05/15	0.64	0.9	729	108
08/18/15	0.55	1.5	718	109
09/08/15	0.70	0.9	733	111

*BRK-LYS-25 is the compliance point for TN and BRK-1/1 is the compliance point for TOC.

**TN was not analyzed during the month of August 2015 due to a lapse of communication with DDW and RWQCB.

Hickory Basin		
Date	BH-1/2*	BH-1/2
mg/L==>	TN (Limit - 5 mg/L)	EC
07/07/15	3.9	665
08/04/15	4.1	681
09/08/15	4.1	-

*BH-1/2 was approved to be the TN compliance point for Hickory Basin by the RWQCB on 7/29/13

Table 2-6
Diluent Water Monitoring*: Local Runoff

Constituent	Cucamonga Creek @ Turner 1&2 09/17/15	Deer Creek @ Turner 3&4 09/21/15	W. Cucamonga Creek @ 7th & 8th Street 09/21/15	Max Level to Trigger Source Water Evaluation	Unit	Method
NO_2-N	0.05	0.08	0.09	1	mg/L	EPA 300.0
NO_3-N	<0.1	0.6	<0.1	10	mg/L	EPA 300.0
TDS	282	394	164	420	mg/L	SM 2540C
Total Coliform	50	900	90000	NA	mpn/100ml	SM 9221B
Oil & Grease	<1	<1	<1	NA	mg/L	EPA 1664A
Inorganic Chemicals						
Aluminum	279	66	101	1000	µg/L	EPA 200.7
Antimony	<0.5	<0.5	2.0	6	µg/L	EPA 200.8
Arsenic	<2	<2	3	10	µg/L	EPA 200.8
Asbestos	<1.76	<5.86	<5.86	7	MFL	EPA 100.2
Barium	45	55	52	1000	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	4	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	5	µg/L	EPA 200.7
Chromium	2.9	2.9	1.1	50	µg/L	EPA 200.7
Chromium VI	2.40	2.30	0.03	10	µg/L	EPA 218.6
Cyanide	<5	<5	<5	150	µg/L	ASTM D7284
Fluoride	0.8	0.3	0.1	2	mg/L	SM 4500-F C
Mercury	<0.05	<0.05	<0.05	2	µg/L	EPA 245.2
Nickel	3	2	5	100	µg/L	EPA 200.7
Perchlorate	<4	<4	<4	6	µg/L	EPA 314
Selenium	<2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)						
Benzene	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	18.3	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<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	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	1750	µg/L	EPA 524.2
Non-Volatile Synthetic Organic Chemicals (SOCs)						
Alachlor (Alanex)	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	1.0	1.1	0.7	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	10	7	20	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505

Table 2-6
Diluent Water Monitoring*: Local Runoff

Constituent	Cucamonga Creek @ Turner 1&2 09/17/15	Deer Creek @ Turner 3&4 09/21/15	W. Cucamonga Creek @ 7th & 8th Street 09/21/15	Max Level to Trigger Source Water Evaluation	Unit	Method
Methoxychlor	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<2.01	<2.23	<2.01	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Disinfection Byproducts						
Total Trihalomethanes (TTHMs)	<2	<2	<2	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	17	10	<2	60	µg/L	SM 6251B
Bromate	3	***21***	<1	10	µg/L	EPA 300.1/317
Chlorite	<0.01	0.02	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals						
Copper	21.0	9.8	8.6	1300	µg/L	EPA 200.7
Lead	0.7	<0.5	2.8	15	µg/L	EPA 200.8
Radionuclides						
Combined Radium-226 & Radium 228	<0.24	0.36	0.30	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<1000	<335	380	20,000	pCi/L	EPA 906.0
Strontium-90	<0.693	<0.641	<0.68	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	4.8	4.4	5.2	50	pCi/L	EPA 900.0
Uranium	<0.7	<0.7	<0.7	20	pCi/L	EPA 200.8
Unregulated Chemicals						
Ethyl tertiary butyl ether	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Tertiary amyl methyl ether	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Chemicals w/ State Notification Levels						
Boron	0.2	<0.1	<0.1	-	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Chlorate	790	600	<10	-	µg/L	EPA 9056
2-Chlorotoluene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Diazinon	<0.1	<0.1	<0.1	-	µg/L	EPA 525.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
1,4 - Dioxane	<1	<1	<1	-	µg/L	EPA 522
Formaldehyde	11	11	18	-	µg/L	EPA 556
HMX	<0.1	<0.1	<0.1	-	µg/L	LC-MS-MS
Isopropylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	<2	<2	-	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	<2	<2	<2	-	ng/l	EPA 521
N-nitrosodimethylamine (NDMA)	<2	<2	<2	-	ng/l	EPA 521
Propachlor	<0.05	<0.05	<0.05	-	µg/L	EPA 525.2
N-propylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
RDX	<0.1	<0.1	<0.1	-	µg/L	LC-MS-MS
Tertiary butyl alcohol	<2	<2	<2	-	µg/L	EPA 524.2 MOD
1,2,3-Trichloropropane (1,2,3-TCP)	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
1,2,4 –trimethylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	-	µg/L	EPA 524.2
2,4,6-Trinitrotoluene	<0.1	<0.1	<0.1	-	µg/L	LC-MS-MS
Vanadium	32	29	4	-	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals						
Aluminum	279	66	101	-	µg/L	EPA 200.7
Corrosivity	2.7	2.4	-0.3	-	SI	SM 2330B
Foaming Agents (MBAS)	0.08	0.10	0.16	-	mg/L	SM 5540C/EPA 425.1
Iron	368	121	2307	-	µg/L	EPA 200.7
Manganese	9	4	126	-	µg/L	EPA 200.7
Odor--Threshold	2	67	67	-	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	-	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	<0.2	-	µg/L	EPA 525.2
Zinc	24	13	20	-	µg/L	EPA 200.7

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

Bold signifies an exceedance of the maximum level to trigger a source water evaluation. Explained in further detail in the report text.

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	Inactive	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
	300484	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	Monitoring
	600848	Alcoa - Offsite MW1	9480 downgradient	NA	NA	Active	Monitoring
	600850	Alcoa - Offsite MW3	4725 downgradient	NA	NA	Active	Monitoring
	601040	Inland Empire Utilities Agency - RP3-1/1	100 downgradient	215-235	4	Active	Monitoring
	601041	Inland Empire Utilities Agency - RP3-1/2	100 downgradient	265-285	4	Active	Monitoring
Jurupa Basin	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
	601036	Inland Empire Utilities Agency - 8TH-1/1	150 downgradient	495-535	4	Active	Monitoring
	601037	Inland Empire Utilities Agency - 8TH-1/2	150 downgradient	595-645	4	Active	Monitoring
	601038	Inland Empire Utilities Agency - 8TH-2/1	2460 downgradient	465-505	4	Active	Monitoring
	601039	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
	601050	Inland Empire Utilities Agency - BRK-1/1	144 downgradient	310-350	4	Active	Monitoring
	601051	Inland Empire Utilities Agency - BRK-1/2	144 downgradient	520-560	4	Active	Monitoring
	601048	Inland Empire Utilities Agency - BRK-2/1	1305 downgradient	320-360	4	Active	Monitoring
	601049	Inland Empire Utilities Agency - BRK-2/2	1305 downgradient	560-600	4	Active	Monitoring
San Sevaine Basins	600905	Cucamonga Valley Water District No. 39	8300-13170 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601115	Inland Empire Utilities Agency - SS-1/1 and 1/2	~39-116 downgradient	640-680	4	Active	Monitoring
	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
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
	601117	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~39-116 downgradient	570-610	4	Active	Monitoring
Ely Basin	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	Active	Monitoring
	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	Active	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 (µmho/cm)	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)	TDS (mg/L)	Cl (mg/L)	Hardness (mg $CaCO_3$/L)	Na (mg/L)	SO_4 (mg/L)	Nitrogen, Total (mg/L)	NO_2-N (mg/L)	NO_3-N (mg/L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Co. - F37a*	08/19/15	0.28	<1.1	7.5	523	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.44	4	336	24	225	19	26	12.7	0.12	***12.6***	6.30
	California Speedway - Infield Well	08/13/15	0.25	<1.1	7.6	527	<25	<3	0.7	0.2	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.24	<1	352	27	256	22	55	8.2	<0.02	8.2	6.60
	California Speedway 2	07/16/15	0.21	<1.1	7.7	432	<25	<3	1.6	0.2	<0.05	<15	<1		1	0.27	<0.2	0.10	2	284	15	176	17	19	5.1	0.14	5.0	9.00
	Reliant Energy - East Well	07/29/15	0.20	<1.1	7.6	365	<25	<3	1.9	0.0	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.10	<1	240	13	146	18	14	5.9	0.12	5.8	7.00
	Ontario Well No. 20	09/09/15	0.20	<1.1	7.7	379	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.15	<1	246	9	175	14	6	2.5	0.12	2.4	4.30
	BH-1/2*	08/04/15	0.39	<1.1		681	<25	<3	0.9	0.4		<15	2	<0.5		<0.25	<0.2	2.00	8	460	101	267	28	36	3.7	<0.02	3.7	
Turner	Ontario Well No. 25	09/09/15	0.29	<1.1	7.7	462	<25	<3	0.8	0.3	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.10	<1	290	20	188	23	16	4.9	0.11	4.8	4.30
	Ontario Well No. 29	09/09/15	0.58	<1.1	7.8	341	<25	5	0.8	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	<1	220	6	135	22	12	1.4	0.11	1.3	4.60
	Ontario Well No. 38	09/09/15	0.21	23	7.8	316	<25	<3	0.6	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.10	<1	192	5	128	20	8	1.5	0.11	1.4	4.80
	T-1/2*	07/28/15	0.91	<1.1	7.4	749	<25	15	1.2	-0.2	<0.05	<15	6	<0.5	2	1.23	<0.2	***10.3***	<1	482	100	309	32	46	1.2	0.06	0.6	2.73
	T-2/2*	07/29/15	0.64	<1.1	7.4	666	<25	5	3.7	0.2	<0.05	<15	2	<0.5	2	<0.25	<0.2	4.10	1	418	89	262	36	51	2.8	0.05	2.7	4.10
RP3	Fontana Water Co. - F23a	08/19/15	0.14	<1.1	7.6	403	<25	<3	2.2	0.3	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.86	3	256	19	166	20	20	5.9	0.11	5.8	6.20
	Southridge JHS*	08/10/15	0.50	2.2	7.2	***966***	<25	<3	2.1	0.3	0.10	<15	1	<0.5	<1	<0.25	<0.2	1.30	2	***622***	95	387	55	78	16.2	0.14	***16.1***	4.00
	Alcoa MW1*	09/29/15	0.16	6.9	7.5	723	<25	<3	0.7	0.3	<0.05	<15	2	<0.5	<1	<0.25	<0.2	0.70	5	500	90	289	27	23	11.1	0.07	***11.0***	5.90
	Alcoa MW3*	09/29/15	0.27	<1.1	7.1	889	<25	<3	1.1	0.2	0.09	<15	<1	<0.5	1	<0.25	<0.2	0.25	<1	***622***	74	361	39	51	15.9	0.09	***15.8***	5.20
	RP3-1/1*	08/04/15	0.76	<1.1	7.3	781	<25	5	1.6	0.1	<0.05	<15	24	<0.5	1	<0.25	<0.2	1.00	1	486	100	266	48	53	4.4	<0.02	3.4	1.20
8th Street	8TH-1/2*	08/11/15	0.37	<1.1	7.5	374	<25	5	<0.5	0.1	<0.05	<15	3	<0.5	<1	0.43	<0.2	5.10	<1	246	37	150	16	17	2.4	<0.02	2.4	6.10
	8TH-2/1*	08/17/15	0.25	<1.1	7.4	449	<25	<3	<0.5	0.1	<0.05	<15	<1	<0.5	<1	<0.25	<0.2	0.14	<1	288	16	206	14	15	7.3	<0.02	7.3	5.10
Brooks	Pomona Well No. 10	07/09/15	0.24	<1.1	7.8	526	<25	<3	0.9	0.4	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.15	1	338	39	231	11	39	6.9	0.13	6.8	10.50
	Pomona Well No. 2	07/09/15	0.23	<1.1	7.8	611	<25	5	1.7	0.5	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.13	2	402	39	285	13	59	10.7	0.14	***10.6***	9.70
	Pomona Well No. 34	07/09/15	0.22	<1.1	7.6	575	<25	5	0.9	0.3	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.87	2	372	31	250	11	41	13.8	0.14	***13.7***	8.80
	BRK-1/1	07/07/15	0.75		7.5	690					<0.05				<1						107				0.9	0.08	0.8	4.60
	BRK-1/1*	08/18/15	0.55	<1.1		718	<25	<3	0.8	0.2		<15	4	<0.5		<0.25	<0.2	2.20	2	450	109	306	26	39	1.5	0.10	0.8	
	BRK-2/1*	08/18/15	0.31	5.1	7.7	559	<25	***20***	<0.5	0.4	<0.05	<15	4	<0.5	1	<0.25	<0.2	***8.90***	<1	382	72	261	11	32	3.2	0.10	2.3	3.40
Ely	Ely Basin MW1 Philadelphia St.*	08/18/15	2.32	<1.1	7.3	640	<25	15	0.8	-0.2	0.06	192	***86***	<0.5	1	<0.25	<0.2	***8.50***	<1	376	88	97	55	42	1.7	0.14	0.9	2.30
	Ely Basin MW2 Walnut St.*	08/13/15	0.65	<1.1	7.2	***1126***	<25	<3	0.8	0.5	0.10	<15	1	<0.5	<1	<0.25	<0.2	0.15	2	***692***	67	549	33	73	24.4	<0.02	***24.4***	3.00
	Riverside Well (43840-CWW)*	07/09/15	0.33	<1.1	7.8	597	<25	<3	1.0	0.6	<0.05	38	16	<0.5	2	<0.25	<0.2	0.54	55	376	29	252	21	35	11.1	0.16	***10.9***	9.00
	Bishop of SB Corp. - DOM	07/09/15	0.32	<1.1	7.8	793	<25	5	1.7	0.7	0.09	28	1	<0.5	<1	0.58	<0.2	0.18	280	***520***	37	349	22	64	20.5	0.17	***20.3***	8.70
Victoria & San Sevaine	SS-1/1*	08/05/15	0.24	<1.1	7.2	270	<25	<3	<0.5	-0.7	0.06	<15	<1	<0.5	1	<0.25	<0.2	3.50	<1	200	11	102	16	22	2.9	0.12	2.8	4.90
	VCT-1/1*	08/10/15	0.78	<1.1	7.1	604	<25	10	0.6	-0.4	<0.05	<15	1	<0.5	1	<0.25	<0.2	***7.00***	1	410	98	247	22	25	2.2	0.11	1.3	5.32
	VCT-2/2*	08/06/15	0.20	<1.1	7.6	283	<25	<3	<0.5	-0.1	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.30	5	196	7	114	16	9	2.8	<0.02	2.8	5.00
	CVWD Well No. 39	07/14/15	0.28	<1.1	7.7	287	<25	<3	2.5	-0.1	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.14	4	184	5	99	20	10	2.4	0.13	2.3	9.00
	CVWD Well No. 43	07/14/15	0.21	<1.1	7.7	340	<25	5	1.4	0.1	<0.05	<15	<1	<0.5	1	<0.25	<0.2	0.08	2	226	8	136	18	14	3.0	0.14	2.9	8.30
	Unitex 91090	07/16/15	0.27	3.6	7.8	369	<25	5	0.6	0.1	<0.05	47	1		2	<0.25	<0.2	0.39	2	242	26	153	15	27	1.7	0.10	1.6	9.10
Declez**	JCSD Well No. 13	07/14/15	0.22	<1.1	7.8	467	<25	<3	1.3	0.4	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.23	1	268	52	159	27	14	1.7	0.10	1.6	7.00
	JCSD Well No. 17	07/14/15	0.42	<1.1	7.7	632	<25	5	2.1	0.4	<0.05	<15	<1	<0.5	2	<0.25	<0.2	0.06	<1	418	69	236	27	38	9.8	0.09	9.7	7.60
	JCSD Well No. 19	07/14/15	0.21	<1.1	7.8	322	<25	<3	1.4	0.3	<0.05	23	<1	<0.5	2	<0.25	<0.2	0.43	<1	210	7	102	28	12	1.9	0.14	1.8	7.26
	DCZ-1/1*	07/23/15	0.89	<1.1	7.5	520	<25	15	1.0	0.1	<0.05	<15	22	<0.5	1	<0.25	<0.2	***14.0***	<1	326	55	198	26	33	1.1	0.09	1.0	9.10
	Primary Maximum Contaminant Level						1000		1300					13			70									1	10	
	Secondary Maximum Contaminant Level				6.5-8.5	900	200	15	1000		0.5	300	50	5	3	100	1	5	5000	500	250			250				

Blank cells indicate that analysis was not run for a constituent on that particular date. On certain dates, supplemental analysis was conducted on several monitoring wells. On those occasions, a full set of analysis was not necessary and only parameters of interest were analyzed.

* Total dissolved metals reported for these wells. The remaining wells report total recoverable metals values. Please note Fontana Water Co. Well No. 37A is a municipal well that has not been in production since May 2005 and is currently only used for monitoring.

** Recycled water delivery has not been initiated at this basin. Data collected and reported is for background monitoring purposes only and will not be discussed in report text until the basin starts receiving recycled water.

NS - No sample. Original JCSD Well No. 17 sample exceeded holding time and well went offline before it could be re-sampled during 1Q15.

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/2 08/11/15	8TH-2/1 08/17/15	BRK-1/1 08/18/15	BRK-2/1 08/18/15	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	µg/L	EPA 200.8
Chromium	2.5	1.5	0.7	4.6	µg/L	EPA 200.8
Copper	<0.5	<0.5	0.8	<0.5	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.05	<0.05	<0.05	<0.05	µg/L	EPA 245.2
Nickel	83	<1	33	75	µg/L	EPA 200.8
Selenium	<2	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	µg/L	EPA 200.8
Zinc	<1	<1	2	<1	µg/L	EPA 200.8
EPA Priority Pollutants - Volatile Organics						
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
2-Chloroethyl vinyl ether	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Benzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromoform	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromomethane	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroform	3.0	<0.5	2.1	<0.5	µg/L	EPA 524.2/EPA 624
Chloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Methylene chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Toluene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Acrolein	<2	<2	<2	<2	µg/L	EPA 624
Acrylonitrile	<2	<2	<2	<2	µg/L	EPA 624

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/2 08/11/15	8TH-2/1 08/17/15	BRK-1/1 08/18/15	BRK-2/1 08/18/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles						
1,2,4-Trichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,2-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,3-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,4-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
2,4,6-Trichlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dichlorophenol	<2	<2	<2	<2	µg/L	EPA 625
2,4-Dimethylphenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dinitrophenol	<3	<3	<3	<3	µg/L	EPA 625
2,4-Dinitrotoluene	<1	<1	<1	<1	µg/L	EPA 625
2,6-Dinitrotoluene	<2	<2	<2	<2	µg/L	EPA 625
2-Chloronaphthalene	<1	<1	<1	<1	µg/L	EPA 625
2-Chlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	<2	<2	<2	<2	µg/L	EPA 625
2-Nitrophenol	<1	<1	<1	<1	µg/L	EPA 625
3,3-Dichlorobenzidine	<5	<5	<5	<5	µg/L	EPA 625
4-Bromophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Chloro-3-methylphenol	<1	<1	<1	<1	µg/L	EPA 625
4-Chlorophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Nitrophenol	<3	<3	<3	<3	µg/L	EPA 625
Acenaphthene	<1	<1	<1	<1	µg/L	EPA 625
Acenaphthylene	<1	<1	<1	<1	µg/L	EPA 625
Anthracene	<1	<1	<1	<1	µg/L	EPA 625
Azobenzene	<1	<1	<1	<1	µg/L	EPA 625
Benzidine	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)anthracene	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)pyrene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(b)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(g,h,i)perylene	<2	<2	<2	<2	µg/L	EPA 625
Benzo(k)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroethoxy)methane	<2	<2	<2	<2	µg/L	EPA 625
Bis(2-chloroethyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-ethylhexyl)phthalate	<2	<2	3	3	µg/L	EPA 625
Butyl benzyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Chrysene	<1	<1	<1	<1	µg/L	EPA 625
Dibenzo(a,h)anthracene	<1	<1	<1	<1	µg/L	EPA 625
Diethyl phthalate	<2	<2	<2	<2	µg/L	EPA 625
Dimethyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-butyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-octyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Fluorene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobutadiene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorocyclopentadiene	<5	<5	<5	<5	µg/L	EPA 625
Hexachloroethane	<1	<1	<1	<1	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	<2	<2	<2	<2	µg/L	EPA 625
Isophorone	<1	<1	<1	<1	µg/L	EPA 625

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/2 08/11/15	8TH-2/1 08/17/15	BRK-1/1 08/18/15	BRK-2/1 08/18/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles (cont'd)						
Naphthalene	<1	<1	<1	<1	µg/L	EPA 625
Nitrobenzene	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodimethylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitroso-di-n-propylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodiphenylamine	<1	<1	<1	<1	µg/L	EPA 625
Pentachlorophenol	<2	<2	<2	<2	µg/L	EPA 625
Phenanthrene	<1	<1	<1	<1	µg/L	EPA 625
Phenol	<1	<1	<1	<1	µg/L	EPA 625
Pyrene	<1	<1	<1	<1	µg/L	EPA 625
EPA Priority Pollutants - Pesticides						
4,4-DDD	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
4,4-DDE	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Aldrin	<0.005	<0.005	<0.005	<0.005	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.005	<0.005	<0.005	<0.005	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.007	<0.007	<0.007	<0.007	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Endrin	<0.016	<0.016	<0.016	<0.016	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 525.2/EPA 608
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Heptachlor	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Heptachlor epoxide	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Chlordane	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1016	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1221	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1232	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1242	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1248	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1254	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
PCB-1260	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
Toxaphene	<2.5	<2.5	<2.5	<2.5	µg/L	EPA 505/EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	-	-	-	-	µg/L	ASTM D7284
2,3,7,8-TCDD	-	-	-	-	µg/L	EPA 1613B

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2 08/04/15	Ely Basin MW-1 08/18/15	Ely Basin MW-2 08/13/15	Reliant Energy - East Well 07/29/15	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	µg/L	EPA 200.8
Chromium	1.8	<0.5	4.9	4.7	µg/L	EPA 200.8
Copper	0.9	0.8	0.8	1.9	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	1.0	µg/L	EPA 200.8
Mercury	<0.05	<0.05	<0.05		µg/L	EPA 245.2
Nickel	31	2	3	1	µg/L	EPA 200.8
Selenium	<2	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	µg/L	EPA 200.8
Zinc	8	<1	2	<1	µg/L	EPA 200.8
EPA Priority Pollutants - Volatile Organics						
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
2-Chloroethyl vinyl ether	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Benzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromodichloromethane	0.6	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromoform	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromomethane	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroform	38.1	<0.5	5.8	<0.5	µg/L	EPA 524.2/EPA 624
Chloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Methylene chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Toluene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Acrolein	<2	<2	<2	<2	µg/L	EPA 624
Acrylonitrile	<2	<2	<2	<2	µg/L	EPA 624

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2 08/04/15	Ely Basin MW-1 08/18/15	Ely Basin MW-2 08/13/15	Reliant Energy - East Well 07/29/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles						
1,2,4-Trichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,2-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,3-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,4-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
2,4,6-Trichlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dichlorophenol	<2	<2	<2	<2	µg/L	EPA 625
2,4-Dimethylphenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dinitrophenol	<3	<3	<3	<3	µg/L	EPA 625
2,4-Dinitrotoluene	<1	<1	<1	<1	µg/L	EPA 625
2,6-Dinitrotoluene	<2	<2	<2	<2	µg/L	EPA 625
2-Chloronaphthalene	<1	<1	<1	<1	µg/L	EPA 625
2-Chlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	<2	<2	<2	<2	µg/L	EPA 625
2-Nitrophenol	<1	<1	<1	<1	µg/L	EPA 625
3,3-Dichlorobenzidine	<5	<5	<5	<5	µg/L	EPA 625
4-Bromophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Chloro-3-methylphenol	<1	<1	<1	<1	µg/L	EPA 625
4-Chlorophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Nitrophenol	<3	<3	<3	<3	µg/L	EPA 625
Acenaphthene	<1	<1	<1	<1	µg/L	EPA 625
Acenaphthylene	<1	<1	<1	<1	µg/L	EPA 625
Anthracene	<1	<1	<1	<1	µg/L	EPA 625
Azobenzene	<1	<1	<1	<1	µg/L	EPA 625
Benzidine	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)anthracene	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)pyrene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(b)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(g,h,i)perylene	<2	<2	<2	<2	µg/L	EPA 625
Benzo(k)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroethoxy)methane	<2	<2	<2	<2	µg/L	EPA 625
Bis(2-chloroethyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-ethylhexyl)phthalate	3	5	<2	<2	µg/L	EPA 625
Butyl benzyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Chrysene	<1	<1	<1	<1	µg/L	EPA 625
Dibenzo(a,h)anthracene	<1	<1	<1	<1	µg/L	EPA 625
Diethyl phthalate	<2	<2	<2	<2	µg/L	EPA 625
Dimethyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-butyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-octyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Fluorene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobutadiene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorocyclopentadiene	<5	<5	<5	<5	µg/L	EPA 625
Hexachloroethane	<1	<1	<1	<1	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	<2	<2	<2	<2	µg/L	EPA 625
Isophorone	<1	<1	<1	<1	µg/L	EPA 625

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2 08/04/15	Ely Basin MW-1 08/18/15	Ely Basin MW-2 08/13/15	Reliant Energy - East Well 07/29/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles (cont'd)						
Naphthalene	<1	<1	<1	<1	µg/L	EPA 625
Nitrobenzene	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodimethylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitroso-di-n-propylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodiphenylamine	<1	<1	<1	<1	µg/L	EPA 625
Pentachlorophenol	<2	<2	<2	<2	µg/L	EPA 625
Phenanthrene	<1	<1	<1	<1	µg/L	EPA 625
Phenol	<1	<1	<1	<1	µg/L	EPA 625
Pyrene	<1	<1	<1	<1	µg/L	EPA 625
EPA Priority Pollutants - Pesticides						
4,4-DDD	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
4,4-DDE	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
4,4-DDT	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Aldrin	<0.01	<0.005	<0.005	<0.01	µg/L	EPA 608
Alpha-BHC	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Beta-BHC	<0.1	<0.005	<0.005	<0.1	µg/L	EPA 608
Delta-BHC	<0.1	<0.007	<0.007	<0.1	µg/L	EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Endosulfan I	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Endosulfan II	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Endosulfan Sulfate	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Endrin	<0.01	<0.016	<0.016	<0.01	µg/L	EPA 608
Endrin aldehyde	<0.1	<0.01	<0.01	<0.1	µg/L	EPA 608
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor epoxide	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Chlordane	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
PCB-1016	<0.08	<2.5	<2.5	<0.08	µg/L	EPA 608
PCB-1221	<0.5	<2.5	<2.5	<0.5	µg/L	EPA 608
PCB-1232	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
PCB-1242	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
PCB-1248	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
PCB-1254	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
PCB-1260	<0.1	<2.5	<2.5	<0.1	µg/L	EPA 608
Toxaphene	<0.5	<2.5	<2.5	<0.5	µg/L	EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<0.02	-	-	<0.02	µg/L	ASTM D7284
2,3,7,8-TCDD	<2.02	-	-	<5	µg/L	EPA 1613B

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1 08/04/15	Southridge JHS 08/26/15	T-1/2 07/28/15	T-2/2 07/29/15	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	µg/L	EPA 200.8
Chromium	1.0	5.7	0.9	1.3	µg/L	EPA 200.8
Copper	1.6	2.1	1.2	3.7	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.05	<0.05	<0.05		µg/L	EPA 245.2
Nickel	33	2	70	25	µg/L	EPA 200.8
Selenium	<2	2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	µg/L	EPA 200.8
Zinc	1	2	<1	1	µg/L	EPA 200.8
EPA Priority Pollutants - Volatile Organics						
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
2-Chloroethyl vinyl ether	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Benzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromodichloromethane	<0.5	<0.5	0.8	2.1	µg/L	EPA 524.2/EPA 624
Bromoform	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromomethane	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroform	1.3	<0.5	6.1	14.6	µg/L	EPA 524.2/EPA 624
Chloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Methylene chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Toluene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Acrolein	<2	<2	<2	<2	µg/L	EPA 624
Acrylonitrile	<2	<2	<2	<2	µg/L	EPA 624

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1 08/04/15	Southridge JHS 08/26/15	T-1/2 07/28/15	T-2/2 07/29/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles						
1,2,4-Trichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,2-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,3-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
1,4-Dichlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
2,4,6-Trichlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dichlorophenol	<2	<2	<2	<2	µg/L	EPA 625
2,4-Dimethylphenol	<1	<1	<1	<1	µg/L	EPA 625
2,4-Dinitrophenol	<3	<3	<3	<3	µg/L	EPA 625
2,4-Dinitrotoluene	<1	<1	<1	<1	µg/L	EPA 625
2,6-Dinitrotoluene	<2	<2	<2	<2	µg/L	EPA 625
2-Chloronaphthalene	<1	<1	<1	<1	µg/L	EPA 625
2-Chlorophenol	<1	<1	<1	<1	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	<2	<2	<2	<2	µg/L	EPA 625
2-Nitrophenol	<1	<1	<1	<1	µg/L	EPA 625
3,3-Dichlorobenzidine	<5	<5	<5	<5	µg/L	EPA 625
4-Bromophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Chloro-3-methylphenol	<1	<1	<1	<1	µg/L	EPA 625
4-Chlorophenyl phenyl ether	<1	<1	<1	<1	µg/L	EPA 625
4-Nitrophenol	<3	<3	<3	<3	µg/L	EPA 625
Acenaphthene	<1	<1	<1	<1	µg/L	EPA 625
Acenaphthylene	<1	<1	<1	<1	µg/L	EPA 625
Anthracene	<1	<1	<1	<1	µg/L	EPA 625
Azobenzene	<1	<1	<1	<1	µg/L	EPA 625
Benzidine	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)anthracene	<5	<5	<5	<5	µg/L	EPA 625
Benzo(a)pyrene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(b)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Benzo(g,h,i)perylene	<2	<2	<2	<2	µg/L	EPA 625
Benzo(k)fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroethoxy)methane	<2	<2	<2	<2	µg/L	EPA 625
Bis(2-chloroethyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	<1	<1	<1	<1	µg/L	EPA 625
Bis(2-ethylhexyl)phthalate	8	<2	<2	<2	µg/L	EPA 625
Butyl benzyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Chrysene	<1	<1	<1	<1	µg/L	EPA 625
Dibenzo(a,h)anthracene	<1	<1	<1	<1	µg/L	EPA 625
Diethyl phthalate	<2	<2	<2	<2	µg/L	EPA 625
Dimethyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-butyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Di-n-octyl phthalate	<1	<1	<1	<1	µg/L	EPA 625
Fluoranthene	<1	<1	<1	<1	µg/L	EPA 625
Fluorene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobenzene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorobutadiene	<1	<1	<1	<1	µg/L	EPA 625
Hexachlorocyclopentadiene	<5	<5	<5	<5	µg/L	EPA 625
Hexachloroethane	<1	<1	<1	<1	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	<2	<2	<2	<2	µg/L	EPA 625
Isophorone	<1	<1	<1	<1	µg/L	EPA 625

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1 08/04/15	Southridge JHS 08/26/15	T-1/2 07/28/15	T-2/2 07/29/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles (cont'd)						
Naphthalene	<1	<1	<1	<1	µg/L	EPA 625
Nitrobenzene	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodimethylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitroso-di-n-propylamine	<1	<1	<1	<1	µg/L	EPA 625
N-Nitrosodiphenylamine	<1	<1	<1	<1	µg/L	EPA 625
Pentachlorophenol	<2	<2	<2	<2	µg/L	EPA 625
Phenanthrene	<1	<1	<1	<1	µg/L	EPA 625
Phenol	<1	<1	<1	<1	µg/L	EPA 625
Pyrene	<1	<1	<1	<1	µg/L	EPA 625
EPA Priority Pollutants - Pesticides						
4,4-DDD	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Gamma-BHC	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor epoxide	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 608
Chlordane	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 608
PCB-1221	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 608
Toxaphene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<0.02	<0.02	<0.02	<0.02	µg/L	ASTM D7284
2,3,7,8-TCDD	<5	<1.97	<2.02	<2.19	µg/L	EPA 1613B

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1 08/05/15	VCT-1/1 08/10/15	VCT-2/2 08/06/15	Unit	Method
EPA Priority Pollutants - Metals					
Antimony	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<2	<2	<2	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	µg/L	EPA 200.8
Chromium	0.9	2.7	1.4	µg/L	EPA 200.8
Copper	<0.5	<0.5	0.6	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.05	<0.05	<0.05	µg/L	EPA 245.2
Nickel	<1	<1	7	µg/L	EPA 200.8
Selenium	<2	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	µg/L	EPA 200.8
Zinc	<1	5	1	µg/L	EPA 200.8
EPA Priority Pollutants - Volatile Organics					
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloropropane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
2-Chloroethyl vinyl ether	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Benzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromodichloromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromoform	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromomethane	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Carbon tetrachloride	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chlorobenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Chloroform	<0.5	<0.5	6.6	µg/L	EPA 524.2/EPA 624
Chloromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Dibromochloromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Ethylbenzene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Methylene chloride	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Tetrachloroethene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Toluene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichloroethene	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Trichlorofluoromethane	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Vinyl chloride	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Acrolein	<2	<2	<2	µg/L	EPA 624
Acrylonitrile	<2	<2	<2	µg/L	EPA 624

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1 08/05/15	VCT-1/1 08/10/15	VCT-2/2 08/06/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles					
1,2,4-Trichlorobenzene	<1	<1	<1	µg/L	EPA 625
1,2-Dichlorobenzene	<1	<1	<1	µg/L	EPA 625
1,3-Dichlorobenzene	<1	<1	<1	µg/L	EPA 625
1,4-Dichlorobenzene	<1	<1	<1	µg/L	EPA 625
2,4,6-Trichlorophenol	<1	<1	<1	µg/L	EPA 625
2,4-Dichlorophenol	<2	<2	<2	µg/L	EPA 625
2,4-Dimethylphenol	<1	<1	<1	µg/L	EPA 625
2,4-Dinitrophenol	<3	<3	<3	µg/L	EPA 625
2,4-Dinitrotoluene	<1	<1	<1	µg/L	EPA 625
2,6-Dinitrotoluene	<2	<2	<2	µg/L	EPA 625
2-Chloronaphthalene	<1	<1	<1	µg/L	EPA 625
2-Chlorophenol	<1	<1	<1	µg/L	EPA 625
2-Methyl-4,6-dinitrophenol	<2	<2	<2	µg/L	EPA 625
2-Nitrophenol	<1	<1	<1	µg/L	EPA 625
3,3-Dichlorobenzidine	<5	<5	<5	µg/L	EPA 625
4-Bromophenyl phenyl ether	<1	<1	<1	µg/L	EPA 625
4-Chloro-3-methylphenol	<1	<1	<1	µg/L	EPA 625
4-Chlorophenyl phenyl ether	<1	<1	<1	µg/L	EPA 625
4-Nitrophenol	<3	<3	<3	µg/L	EPA 625
Acenaphthene	<1	<1	<1	µg/L	EPA 625
Acenaphthylene	<1	<1	<1	µg/L	EPA 625
Anthracene	<1	<1	<1	µg/L	EPA 625
Azobenzene	<1	<1	<1	µg/L	EPA 625
Benzidine	<5	<5	<5	µg/L	EPA 625
Benzo(a)anthracene	<5	<5	<5	µg/L	EPA 625
Benzo(a)pyrene	<1	<1	<1	µg/L	EPA 625
Benzo(b)fluoranthene	<1	<1	<1	µg/L	EPA 625
Benzo(g,h,i)perylene	<2	<2	<2	µg/L	EPA 625
Benzo(k)fluoranthene	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroethoxy)methane	<2	<2	<2	µg/L	EPA 625
Bis(2-chloroethyl)ether	<1	<1	<1	µg/L	EPA 625
Bis(2-chloroisopropyl)ether	<1	<1	<1	µg/L	EPA 625
Bis(2-ethylhexyl)phthalate	<2	<2	<2	µg/L	EPA 625
Butyl benzyl phthalate	<1	<1	<1	µg/L	EPA 625
Chrysene	<1	<1	<1	µg/L	EPA 625
Dibenzo(a,h)anthracene	<1	<1	<1	µg/L	EPA 625
Diethyl phthalate	<2	<2	<2	µg/L	EPA 625
Dimethyl phthalate	<1	<1	<1	µg/L	EPA 625
Di-n-butyl phthalate	<1	<1	<1	µg/L	EPA 625
Di-n-octyl phthalate	<1	<1	<1	µg/L	EPA 625
Fluoranthene	<1	<1	<1	µg/L	EPA 625
Fluorene	<1	<1	<1	µg/L	EPA 625
Hexachlorobenzene	<1	<1	<1	µg/L	EPA 625
Hexachlorobutadiene	<1	<1	<1	µg/L	EPA 625
Hexachlorocyclopentadiene	<5	<5	<5	µg/L	EPA 625
Hexachloroethane	<1	<1	<1	µg/L	EPA 625
Indeno(1,2,3-cd)pyrene	<2	<2	<2	µg/L	EPA 625
Isophorone	<1	<1	<1	µg/L	EPA 625

Table 2-8b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1 08/05/15	VCT-1/1 08/10/15	VCT-2/2 08/06/15	Unit	Method
EPA Priority Pollutants - Base/Neutral and Acid Extractibles (cont'd)					
Naphthalene	<1	<1	<1	µg/L	EPA 625
Nitrobenzene	<1	<1	<1	µg/L	EPA 625
N-Nitrosodimethylamine	<1	<1	<1	µg/L	EPA 625
N-Nitroso-di-n-propylamine	<1	<1	<1	µg/L	EPA 625
N-Nitrosodiphenylamine	<1	<1	<1	µg/L	EPA 625
Pentachlorophenol	<2	<2	<2	µg/L	EPA 625
Phenanthrene	<1	<1	<1	µg/L	EPA 625
Phenol	<1	<1	<1	µg/L	EPA 625
Pyrene	<1	<1	<1	µg/L	EPA 625
EPA Priority Pollutants - Pesticides					
4,4-DDD	<0.01	<0.01	<0.01	µg/L	EPA 608
4,4-DDE	<0.01	<0.01	<0.01	µg/L	EPA 608
4,4-DDT	<0.01	<0.01	<0.01	µg/L	EPA 608
Aldrin	<0.005	<0.005	<0.005	µg/L	EPA 608
Alpha-BHC	<0.01	<0.01	<0.01	µg/L	EPA 608
Beta-BHC	<0.005	<0.005	<0.005	µg/L	EPA 608
Delta-BHC	<0.007	<0.007	<0.007	µg/L	EPA 608
Dieldrin	<0.01	<0.01	<0.01	µg/L	EPA 608
Endosulfan I	<0.01	<0.01	<0.01	µg/L	EPA 608
Endosulfan II	<0.01	<0.01	<0.01	µg/L	EPA 608
Endosulfan Sulfate	<0.01	<0.01	<0.01	µg/L	EPA 608
Endrin	<0.016	<0.016	<0.016	µg/L	EPA 608
Endrin aldehyde	<0.01	<0.01	<0.01	µg/L	EPA 608
Gamma-BHC	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor	<0.01	<0.01	<0.01	µg/L	EPA 608
Heptachlor epoxide	<0.01	<0.01	<0.01	µg/L	EPA 608
Chlordane	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1016	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1221	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1232	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1242	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1248	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1254	<2.5	<2.5	<2.5	µg/L	EPA 608
PCB-1260	<2.5	<2.5	<2.5	µg/L	EPA 608
Toxaphene	<2.5	<2.5	<2.5	µg/L	EPA 608
EPA Priority Pollutants - Miscellaneous					
Cyanide	-	-	-	µg/L	ASTM D7284
2,3,7,8-TCDD	-	-	-	µg/L	EPA 1613B

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

Constituent	BH-1/2 08/04/15	Reliant Energy - East Well 07/29/15	RP3-1/1 08/04/15	Southridge JHS 08/26/15	T-1/2 07/28/15	T-2/2 07/28/15	MCL	Unit	Method
Inorganic Chemicals									
Asbestos	<0.2	<0.2	<0.2	<0.35	<1.54	<0.7	7	MFL	EPA 100.2
Cyanide	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	150	mg/L	ASTM D7284
Perchlorate	<4	<4	<4	4	<4	<4	6	µg/L	EPA 314
Mercury	<0.05	-	<0.05	<0.05	<0.05	-	2	µg/L	EPA 245.2
Fluoride	0.1	0.1	0.1	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<2	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Barium, Dissolved	117	78	127	160	103	103	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium, Dissolved	1.8	4.7	1.0	5.7	0.9	1.3	50	µg/L	EPA 200.8
Copper, Dissolved	0.9	1.9	1.6	2.1	1.2	3.7	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	31	1	33	2	70	25	100	µg/L	EPA 200.8
Manganese, Dissolved	2	<1	24	1	6	2	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	1.23	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	8	<1	1	2	<1	1	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)									
Benzene	<0.5	<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	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<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	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<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	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<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	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<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	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<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	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<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	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<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	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<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	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<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	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<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	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	<1	<1	1750	µg/L	EPA 524.2

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

Constituent	BH-1/2 08/04/15	Reliant Energy - East Well 07/29/15	RP3-1/1 08/04/15	Southridge JHS 08/26/15	T-1/2 07/28/15	T-2/2 07/28/15	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)									
Alachlor (Alanex)	<0.05	<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	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<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	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<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	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<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	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	2.0	<0.6	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	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<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	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<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	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<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	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<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	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<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	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<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	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<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	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<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	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<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	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	0.07	<0.05	<0.05	<0.05	0.10	0.06	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<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	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<2.02	<5	<5	<1.97	<2.02	<2.19	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals									
Copper, Dissolved	0.9	1.9	1.6	2.1	1.2	3.7	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides									
Combined Radium-226 and Radium 228	0.21	0.49	0.58	0.44	0.34	0.72	5	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	8	10	<3	15	pCi/l	EPA 900.0
Tritium	<1000	<1000	<1000	<1000	<1000	<1000	20,000	pCi/l	EPA 906
Strontium-90	<0.657	<0.651	<0.758	<0.73	<0.682	<0.682	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	<3	3	6	<3	<3	50	pCi/l	EPA 900.0
Uranium	0.8	<0.7	2.4	6.5	1.7	<0.7	20	pCi/l	EPA 200.8

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	RP3	San Sevaine	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Sevaine	Turner	Victoria	7th & 8th St.	Banana	Brooks	Ely	Hickory	RP3	San Sevaine	Turner	Victoria
Oct-14	0	0	0	0	0	0	0	0	0	0	0	6	16	0	25	0	39	3	0	206	56	286	226	335	0	63	75
Nov-14	0	0	0	0	0	0	0	0	0	146	7	28	170	0	112	18	108	57	0	173	37	70	272	250	0	58	4
Dec-14	0	0	0	0	0	0	0	0	0	353	145	95	392	185	419	246	603	153	0	67	0	5	46	6	0	2	0
4Q14 Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**499**	**152**	**129**	**578**	**185**	**555**	**264**	**750**	**213**	**0**	**445**	**93**	**361**	**544**	**592**	**0**	**123**	**79**
Jan-15	0	0	0	0	0	0	0	0	0	110	24	19	44	8	132	-5	121	18	0	144	10	183	194	29	0	0	63
Feb-15	0	0	0	0	0	0	0	0	0	42	16	27	72	47	94	39	157	40	0	47	92	222	180	243	0	113	57
Mar-15	0	0	0	0	0	0	0	0	0	43	2	13	15	0	69	2	123	12	0	80	69	157	115	325	0	298	79
1Q15 Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**194**	**42**	**58**	**131**	**55**	**295**	**36**	**401**	**70**	**0**	**272**	**171**	**562**	**489**	**597**	**0**	**412**	**199**
Apr-15	0	0	0	0	0	0	0	0	0	25	3	10	100	0	41	0	39	0	0	90	101	165	229	282	0	0	127
May-15	0	0	0	0	0	0	0	0	0	57	0	21	231	3	121	17	0	13	0	161	120	160	139	348	102	0	141
Jun-15	0	0	0	0	0	0	0	0	0	12	0	0	0	0	12	0	2	1	0	26	156	273	197	531	38	81	32
2Q15 Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**94**	**3**	**30**	**331**	**3**	**174**	**17**	**41**	**14**	**0**	**277**	**377**	**598**	**565**	**1161**	**140**	**81**	**300**
Jul-15	0	0	0	0	0	0	0	0	0	45	0	0	285	0	133	9	87	4	0	54	63	102	39	266	0	85	139
Aug-15	0	0	0	0	0	0	0	0	0	4	0	0	3	0	31	0	15	1	23	156	0	1	56	141	0	163	165
Sep-15	0	0	0	0	0	0	0	0	0	76	40	0	215	9	123	52	194	37	63	376	0	31	107	302	0	195	136
3Q15 Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**125**	**40**	**0**	**503**	**9**	**288**	**61**	**297**	**41**	**87**	**585**	**63**	**134**	**202**	**709**	**0**	**443**	**440**

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

	ASR Well No. 4									
		Injection			Recovery			Mass Balance		
	Date	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
4Q14	Oct-14	0.0	0.7	320	0	11.7	380	(637)	(12,020)	(303,607)
	Nov-14	0.0	0.7	320	45	10.8	380	(682)	(12,617)	(324,534)
	Dec-14	0.0	0.7	320	14	10.2	380	(696)	(12,789)	(330,965)
1Q15	Jan-15	0.0	0.7	320	61	12.5	380	(756)	(13,723)	(359,411)
	Feb-15	0.0	0.7	320	47	12.6	380	(803)	(14,444)	(381,219)
	Mar-15	0.0	0.7	320	40	12.0	380	(843)	(15,037)	(399,961)
2Q15	Apr-15	0.0	0.7	320	41	12.5	380	(884)	(15,667)	(419,083)
	May-15	0.0	0.7	320	47	12.8	380	(931)	(16,415)	(441,299)
	Jun-15	0.0	0.7	320	4	12.9	380	(935)	(16,479)	(443,179)
3Q15	Jul-15	0.0	0.7	320	0	12.9	380	(935)	(16,479)	(443,179)
	Aug-15	0.0	0.7	320	0	12.9	380	(935)	(16,479)	(443,179)
	Sep-15	0.0	0.7	320	13	10.2	380	(948)	(16,639)	(449,174)

	ASR Well No. 30									
		Injection			Recovery			Mass Balance		
	Date	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
4Q14	Oct-14	0.0	0.7	320	0	16.5	370	(161)	(25,336)	(279,931)
	Nov-14	0.0	0.7	320	0	16.5	370	(162)	(25,345)	(280,132)
	Dec-14	0.0	0.7	320	0	16.5	370	(162)	(25,345)	(280,132)
1Q15	Jan-15	0.0	0.7	320	3	16.5	370	(165)	(25,406)	(281,510)
	Feb-15	0.0	0.7	320	23	16.5	370	(187)	(25,868)	(291,867)
	Mar-15	0.0	0.7	320	0	14.0	370	(187)	(25,868)	(291,867)
2Q15	Apr-15	0.0	0.7	320	6	14.0	370	(193)	(25,971)	(294,606)
	May-15	0.0	0.7	320	16	14.0	370	(210)	(26,255)	(302,101)
	Jun-15	0.0	0.7	320	0	16.9	370	(210)	(26,255)	(302,101)
3Q15	Jul-15	0.0	0.7	320	0	16.9	370	(210)	(26,255)	(302,101)
	Aug-15	0.0	0.7	320	10	16.9	370	(220)	(26,470)	(306,816)
	Sep-15	0.0	0.7	320	28	16.9	370	(249)	(27,065)	(319,802)

	ASR Well No. 32									
		Injection			Recovery			Mass Balance		
	Date	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
4Q14	Oct-14	0.0	0.7	320	0	18.3	300	(3,643)	(42,885)	(825,638)
	Nov-14	0.0	0.7	320	3	18.3	300	(3,646)	(42,954)	(826,781)
	Dec-14	0.0	0.7	320	0	18.3	300	(3,646)	(42,954)	(826,781)
1Q15	Jan-15	0.0	0.7	320	0	18.3	300	(3,646)	(42,954)	(826,781)
	Feb-15	0.0	0.7	320	0	18.3	300	(3,646)	(42,954)	(826,781)
	Mar-15	0.0	0.7	320	0	12.9	300	(3,646)	(42,954)	(826,781)
2Q15	Apr-15	0.0	0.7	320	0	12.9	300	(3,646)	(42,954)	(826,781)
	May-15	0.0	0.7	320	0	12.9	300	(3,646)	(42,954)	(826,781)
	Jun-15	0.0	0.7	320	9	12.9	300	(3,654)	(43,092)	(829,997)
3Q15	Jul-15	0.0	0.7	320	29	19.0	300	(3,684)	(43,781)	(840,897)
	Aug-15	0.0	0.7	320	79	19.0	300	(3,763)	(45,636)	(870,238)
	Sep-15	0.0	0.7	320	129	19.0	300	(3,892)	(48,648)	(917,891)

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

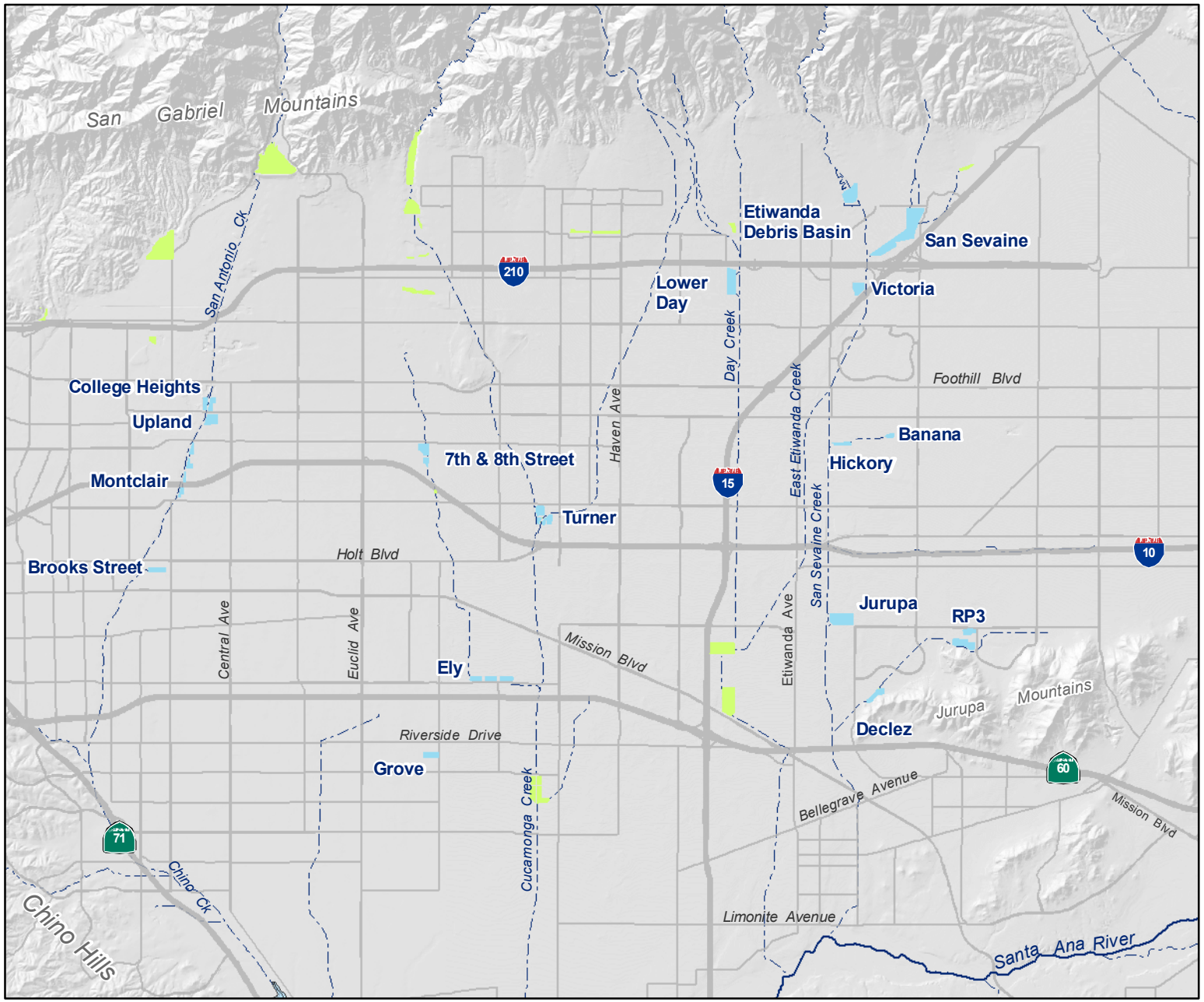
Cells shaded in grey reflect most recent lab values.

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

		ASR Well No. 33								
		Injection			Recovery			Mass Balance		
	Date	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
4Q14	Oct-14	0.0	0.7	320	0	18.1	340	(1,256)	(26,336)	(479,864)
	Nov-14	0.0	0.7	320	0	17.8	340	(1,256)	(26,336)	(479,864)
	Dec-14	0.0	0.7	320	0	16.0	340	(1,256)	(26,336)	(479,864)
1Q15	Jan-15	0.0	0.7	320	429	16.5	340	(1,685)	(35,065)	(659,963)
	Feb-15	0.0	0.7	320	442	16.5	340	(2,126)	(44,041)	(845,158)
	Mar-15	0.0	0.7	320	654	17.2	340	(2,781)	(57,887)	(1,119,567)
2Q15	Apr-15	0.0	0.7	320	758	16.5	340	(3,539)	(73,303)	(1,437,645)
	May-15	0.0	0.7	320	691	17.4	340	(4,230)	(88,115)	(1,727,385)
	Jun-15	0.0	0.7	320	972	17.1	340	(5,202)	(108,626)	(2,135,231)
3Q15	Jul-15	0.0	0.7	320	1015	17.0	340	(6,217)	(129,896)	(2,560,954)
	Aug-15	0.0	0.7	320	1004	16.9	340	(7,221)	(150,861)	(2,982,003)
	Sep-15	0.0	0.7	320	769	16.9	340	(7,990)	(166,928)	(3,304,670)

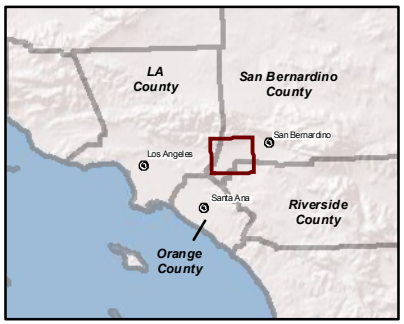
The injected water is WFA-treated water, which meets CCR Title 22 drinking water standards.
Cells shaded in grey reflect most recent lab values.

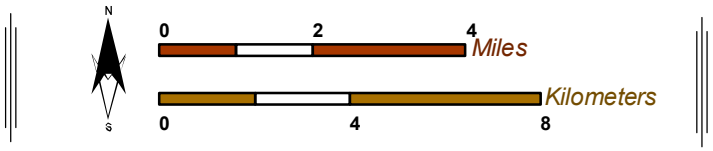
		Total Project (All Wells)			
	Date		Mass Balance		
			Storage (AF)	TIN (kg)	TDS (kg)
4Q14	Oct-14		(5,697)	(106,577)	(1,889,039)
	Nov-14		(5,745)	(107,252)	(1,911,310)
	Dec-14		(5,759)	(107,424)	(1,917,742)
1Q15	Jan-15		(6,252)	(117,148)	(2,127,665)
	Feb-15		(6,762)	(127,306)	(2,345,025)
	Mar-15		(7,457)	(141,745)	(2,638,177)
2Q15	Apr-15		(8,262)	(157,895)	(2,978,115)
	May-15		(9,016)	(173,739)	(3,297,566)
	Jun-15		(10,001)	(194,452)	(3,710,508)
3Q15	Jul-15		(11,046)	(216,410)	(4,147,129)
	Aug-15		(12,139)	(239,446)	(4,602,235)
	Sep-15		(13,079)	(259,279)	(4,991,537)



Main Map Features

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

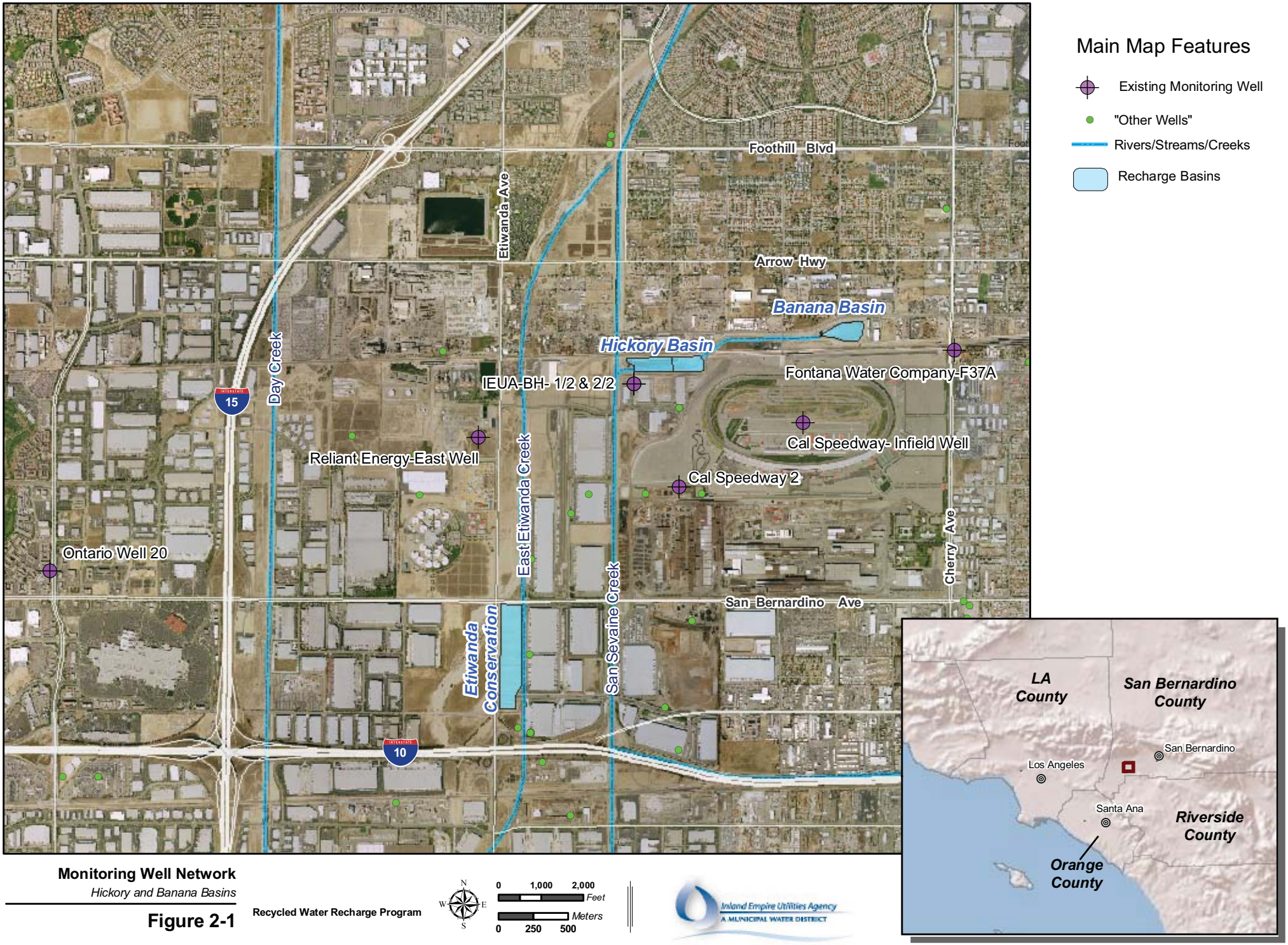




Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations

Figure 1-1

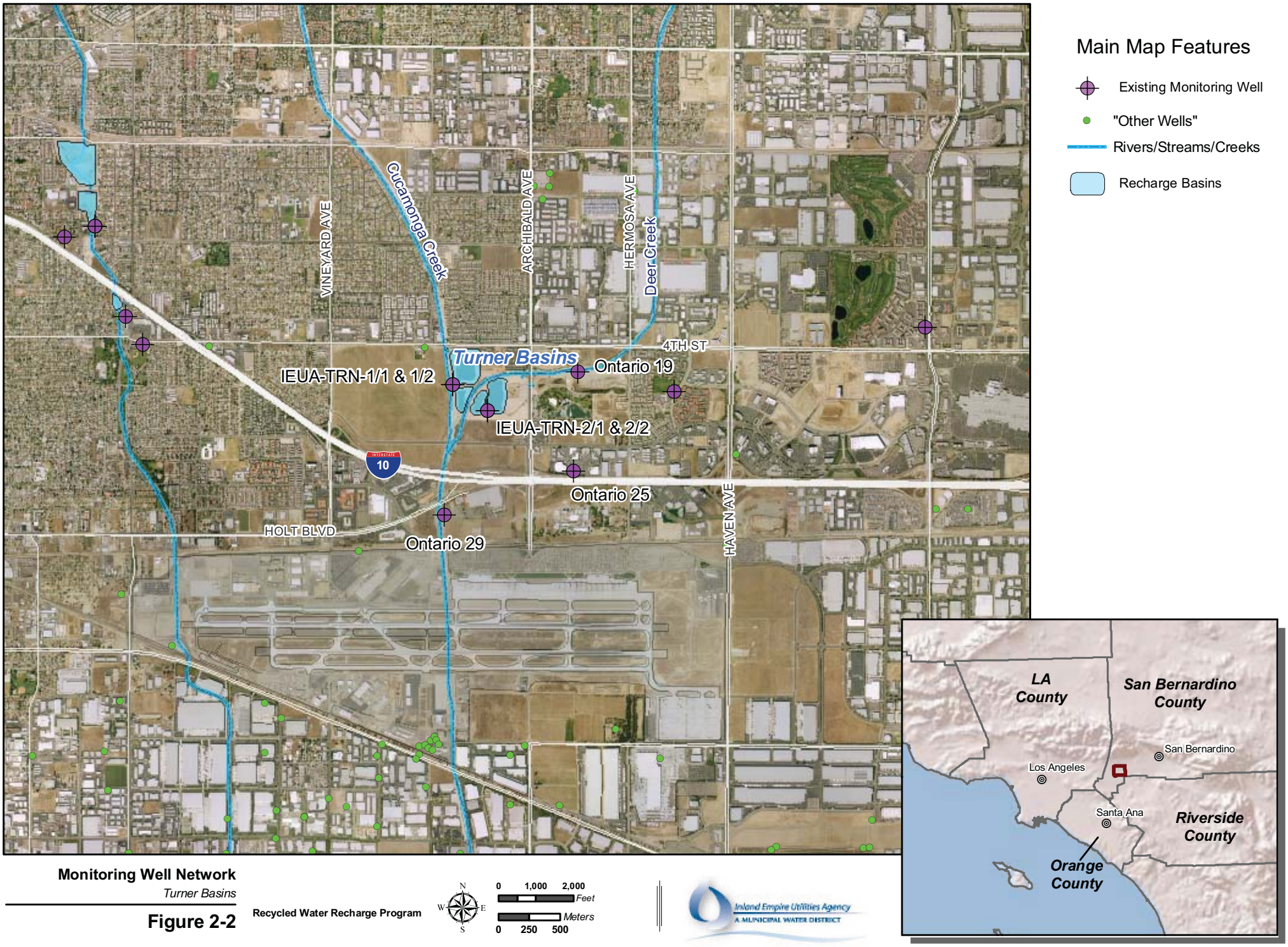


Monitoring Well Network

Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program



Monitoring Well Network

Turner Basins

Figure 2-2

Recycled Water Recharge Program

N W E S

0 1,000 2,000 Feet

0 250 500 Meters

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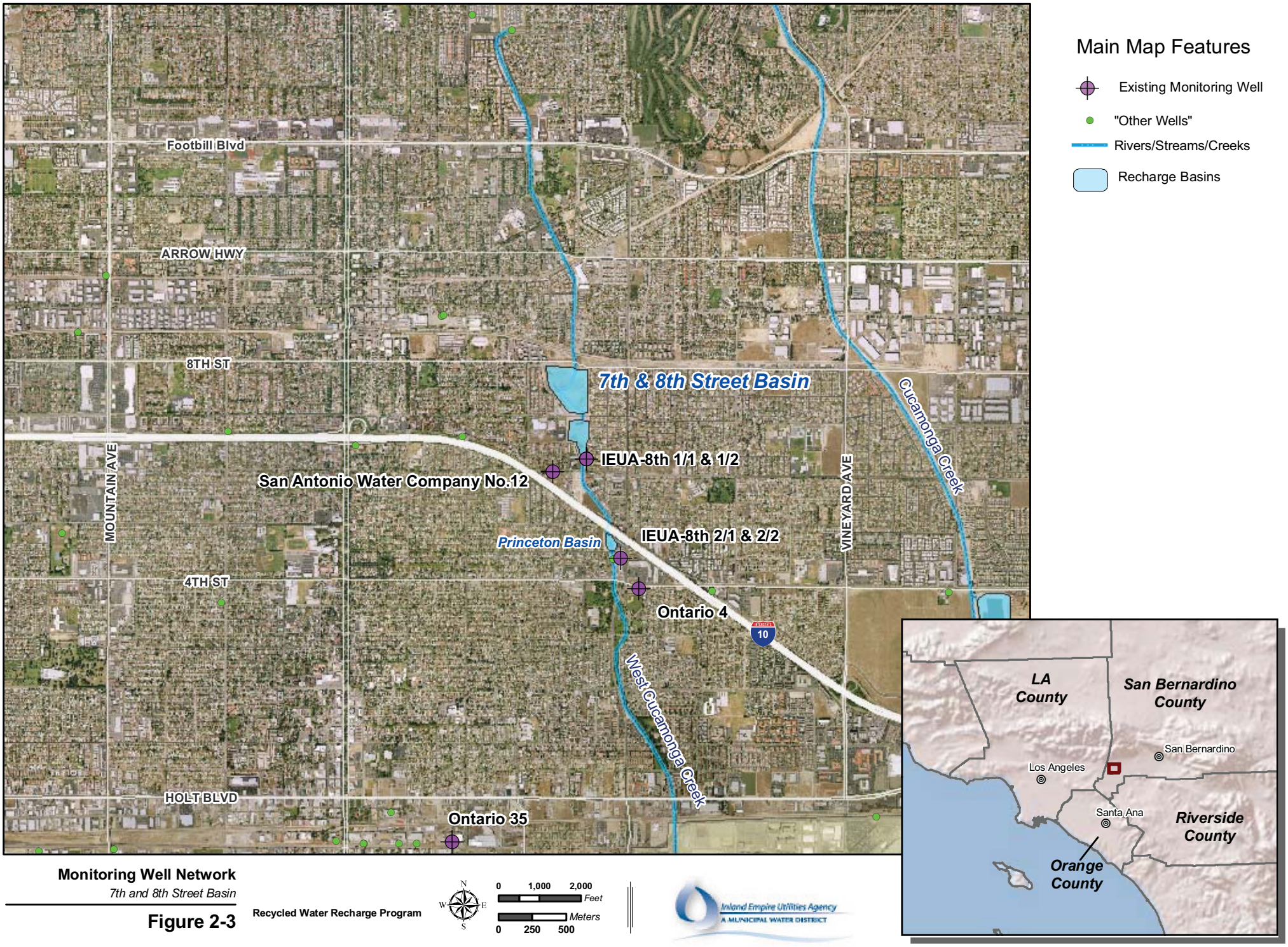
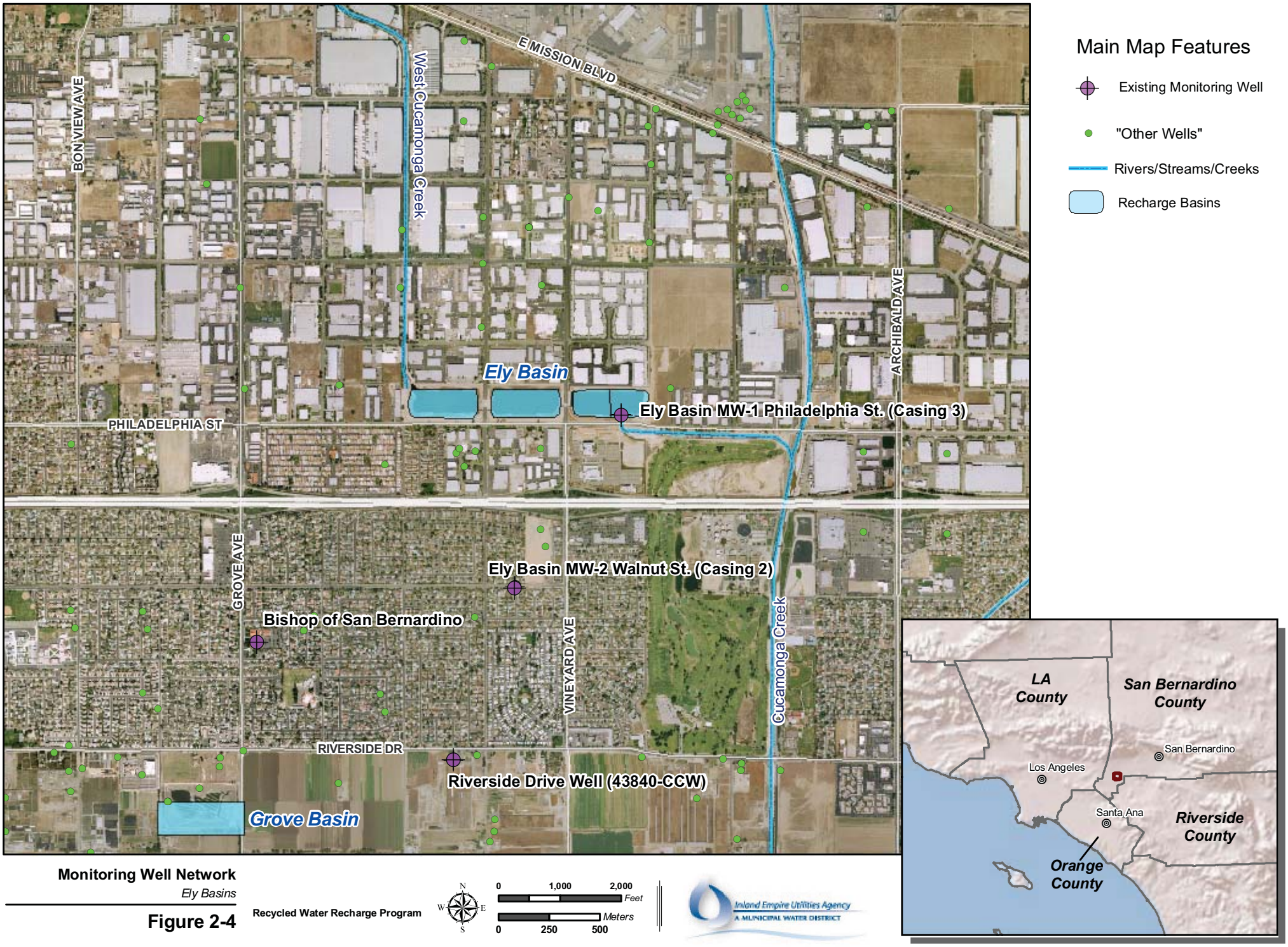


Monitoring Well Network

7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program

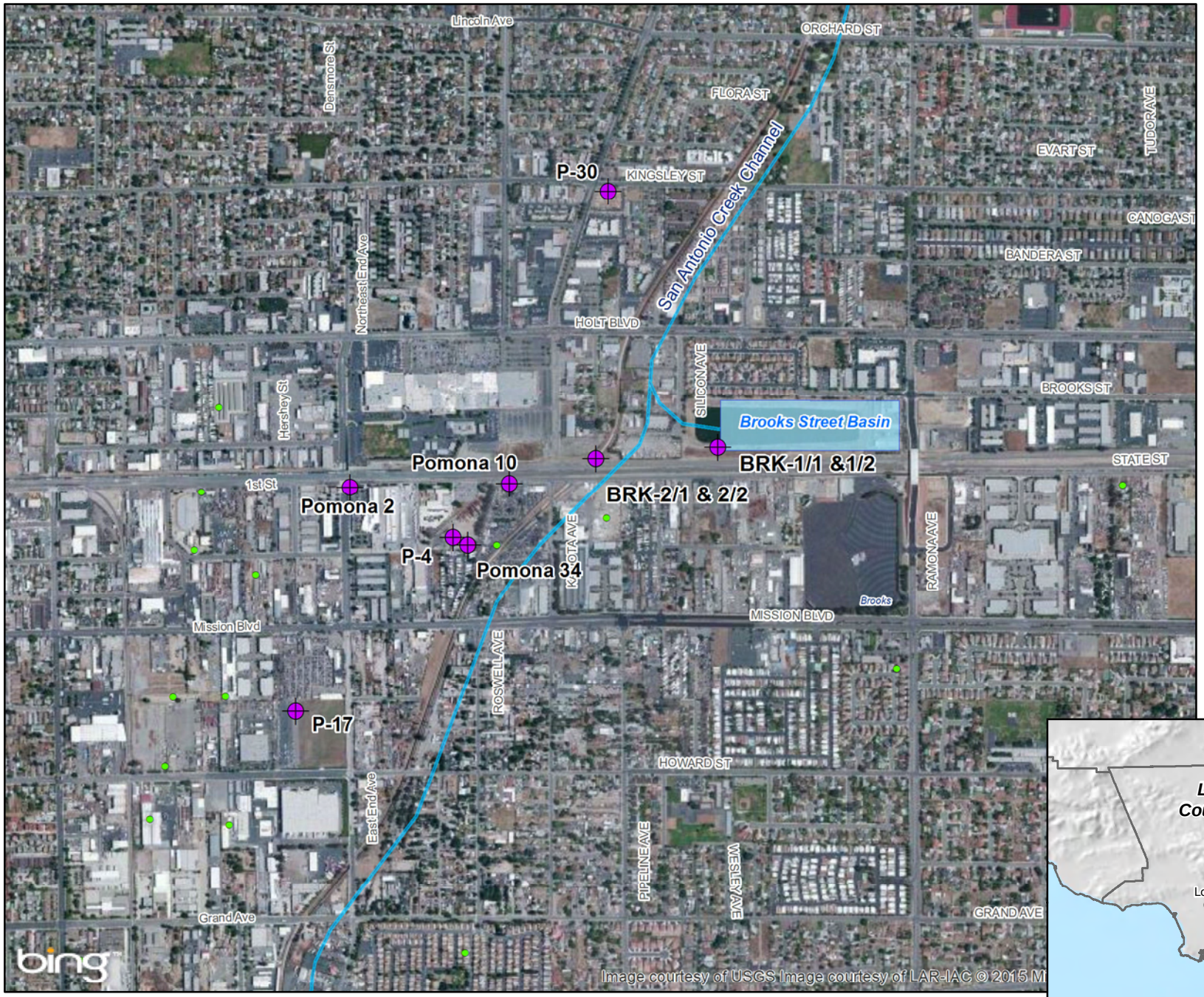


Monitoring Well Network

Ely Basins

Figure 2-4

Recycled Water Recharge Program



Main Map Features

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

Monitoring Well Network
Brooks Street Basin

Figure 2-5

Recycled Water Recharge Program

N W E S

0 1,000 Feet
0 300 Meters

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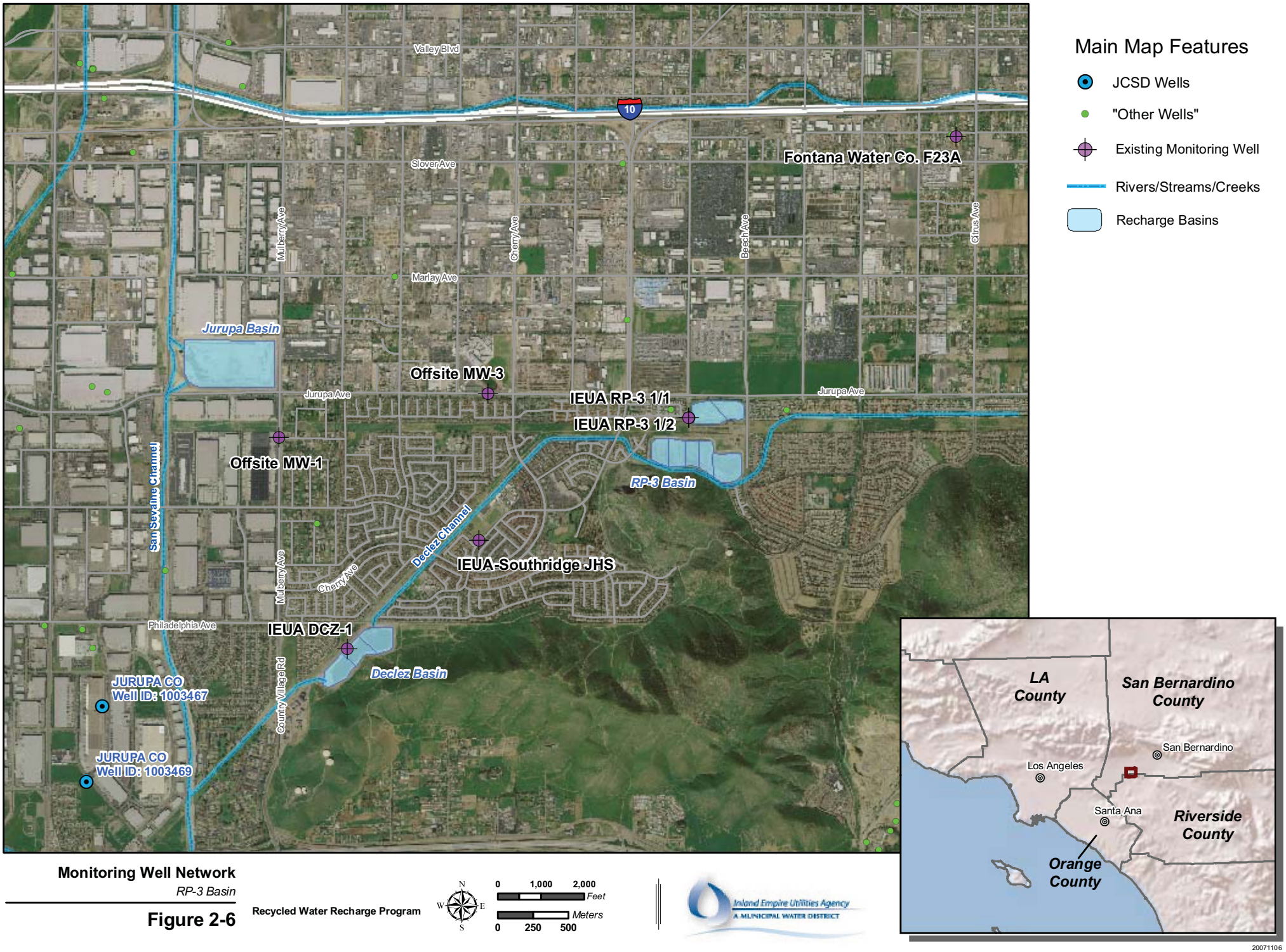
20071106

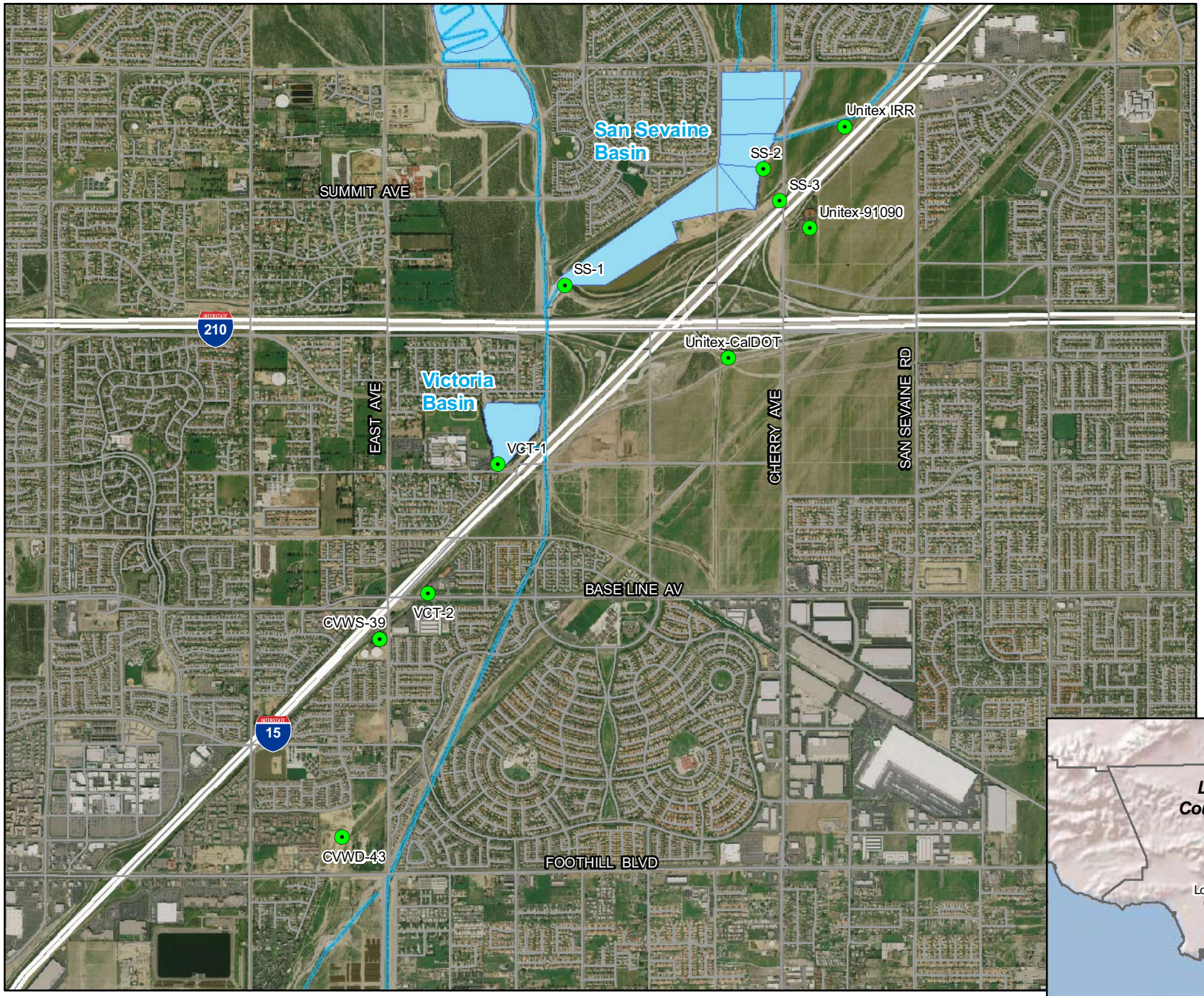


Monitoring Well Network

RP-3 Basin

Figure 2-6

Recycled Water Recharge Program



Main Map Features

- Existing Monitoring Well
- Rivers/Streams/Creeks
- Recharge Basins

Monitoring Well Network

San Sevaine and Victoria Basin

Figure 2-7

Recycled Water Recharge Program

N W E S

0 1,000 2,000 Feet

0 250 500 Meters

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