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August 15, 2019

Regional Water Quality Control Board, Santa Ana Region

Attention: Ms. Hope Smythe

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

**Subject: Chino Basin Recycled Water Groundwater Recharge Program:
Quarterly Monitoring Report for April through June 2019**

Dear Ms. Smythe,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the second quarter of 2019 (2Q19), April 1 through June 30, 2019, 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 2Q19, 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).

Chino Basin Watermaster hereby certifies that, during the period of April 1 through June 30, 2019, 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, Declez, 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.

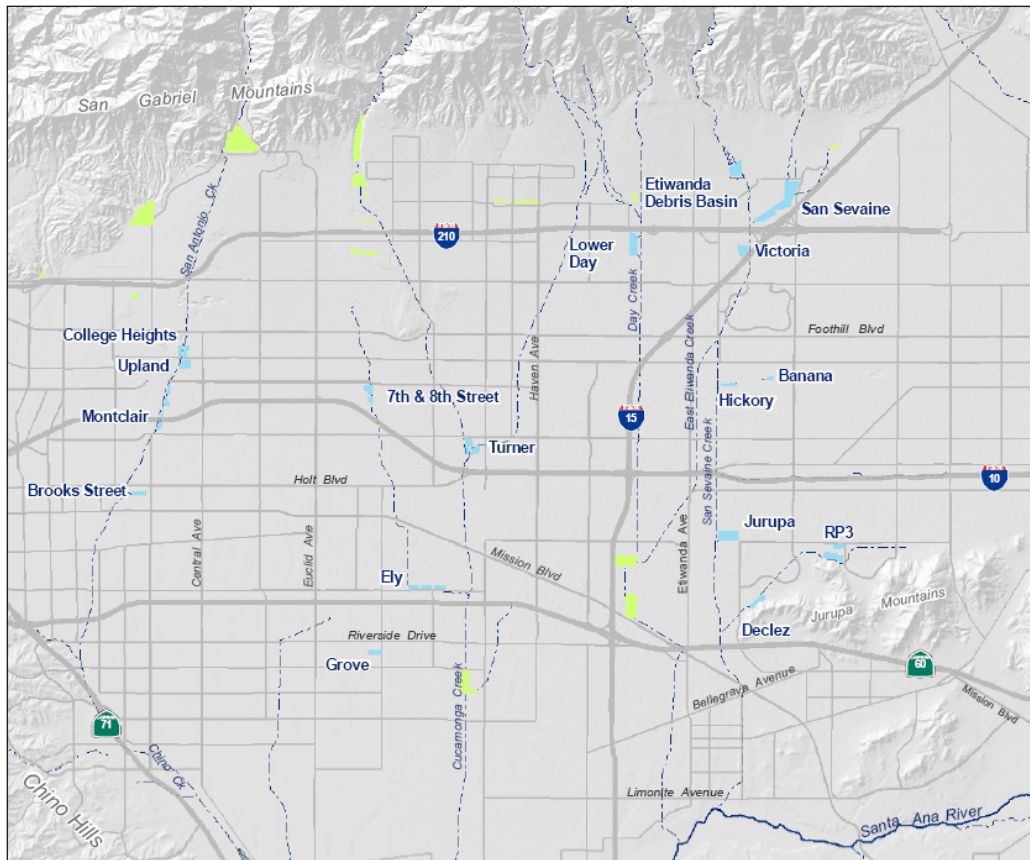
Executed on the 15th day of August in the Cities of Chino and Rancho Cucamonga.

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Executive Manager of Operations/
Assistant General Manager

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Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report April 1 through June 30, 2019



Prepared by:



August 15, 2019

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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 Program (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 Groundwater 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 second quarter of 2019 (2Q19).

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 (GRRP), which can be found in Title 22 California Code of Regulations, 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 began in 3Q15.

The DDW GRRP regulations require that all GRRPs permitted prior to June 18, 2014 submit a report to the DDW and Regional Board to assess compliance with the requirements. The IEUA submitted the Compliance Assessment Report (CAR) for the Chino Basin Recycled Water Groundwater Recharge Project dated June 18, 2015 and a revised CAR dated December 12, 2018. On July 25, 2019, the DDW sent a letter to IEUA with their comments on the CAR. Response to the comment letter will be submitted to the DDW no later than October 31, 2019.

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 described in the MRP. Tables 2-1 through 2-4 include all of the requisite 2Q19 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. The monitoring data in Table 2-1 is 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 2Q19, there were no exceedances of the TN limit. Table 2-2 is the compilation of Total Dissolved Solids and Total Inorganic Nitrogen (TIN) data used to demonstrate compliance with the agency-wide 12-month running average concentration limits of 550 mg/L for TDS and 8 mg/L of TIN. TDS and TIN were not exceeded during 2Q19.

Recycled Water Specifications A.1 through A.4 of the Order are numerical limits based on the Federal and State 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 these specifications in 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). Tables 2-3a (RW Blend) and 2-3b (RP-1 001B effluent) summarize the 4-quarter running average concentration data for each parameter from 3Q18 through 2Q19 and lists the corresponding limits for compliance.

RP-1 001B effluent sampling began in 2Q19; it was identified during the DDW's CAR review that 001B effluent would need to be reported independently of the RW Blend, due to the Ely Basins receiving only 001B effluent.

The 001B effluent during 2Q19 had a carbon tetrachloride result that exceeded the MCL. Compliance for carbon tetrachloride is based on a 4-quarter running average. Since a confirmation sample was not collected within 72 hours of notification of the result, pursuant to Title 22 §60320.112(d)(2) weekly sampling has been initiated during the 3rd week of August 2019 and will continue until the running 4-week average no longer exceeds the MCL.

There were no exceedances for the parameters analyzed during 2Q19, this includes 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 2Q19 was 15 Units, causing the threshold odor compliance metric to exceed the secondary MCL. The odor has been identified by Eurofins 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 2-9a), threshold odor did not exceed 3 Units at the nearest downgradient monitoring wells during 2Q19.

Although the RW Blend sample from NRG turnout is a suitable sample location for most constituents in recycled water, it is not appropriate for Total Trihalomethanes (TTHMs) and Total Haloacetic Acids (HAA5) Compliance samples for these compounds are taken from lysimeters or monitoring wells at basins actively receiving recycled water. At these locations, the samples better represent the compounds present in the recycled water prior to reaching the groundwater table, as the concentrations of these constituents change through the recharge process. Once a quarter, a representative sample is collected from a selected compliance lysimeter/monitoring well and analyzed for these compounds. For the 2Q19 sampling for these three compounds, IEUA chose the 35-foot below ground surface lysimeter at the 8th Street Basin (8TH-LYS-35) as the compliance point. The 8th Street Basin lysimeter was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present at the 35-foot depth based on electrical conductivity (EC) measurements. Total Trihalomethanes were inadvertently not analyzed during 2Q19.

During the DDW's review of the CAR, it was brought to IEUA's attention that MCLs are required to be met in the recycled water sample in accordance with the 2014 GRRP regulations. In quarters prior to

2Q19, the lysimeter result was selected as the compliance point for 1,2,3-trichloropropane (1,2,3-TCP), similar to the TTHMs and HAA5. Starting 2Q19, 1,2,3-TCP compliance will be determined using the 4-quarter running average of the RW Blend and the 001B effluent. Due to previous RW Blend results above the reporting limit of 0.005 µg/L, which is also the MCL, weekly sampling was initiated during 2Q19 until the 4-week running average was below the MCL. The 1,2,3-TCP results from this quarter are shown below:

Sample	Parameter	Sample Date	Results
RP1/RP4 RW Blend	1,2,3-TCP	05/15/19	0.015 µg/L
RP1/RP4 RW Blend	1,2,3-TCP	05/23/19	0.005 µg/L
RP1/RP4 RW Blend	1,2,3-TCP	05/30/19	<0.005 µg/L
RP1/RP4 RW Blend	1,2,3-TCP	06/06/19	<0.005 µg/L
RP1/RP4 RW Blend	1,2,3-TCP	06/13/19	<0.005 µg/L
RP1/RP4 RW Blend	1,2,3-TCP	06/20/19	<0.005 µg/L

Tables 2-4a (RW Blend) and 2-4b (RP-1 001B Effluent) summarize the quarterly monitoring results of recycled water for constituents with no MCLs or Action Levels; this includes priority pollutants, chemicals of emerging concern (CECs), and chemicals with state notification levels. All required constituents were analyzed in 2Q19.

Note that in Tables 2-4a and 2-4b there is an updated section named “Health-based and performance indicator CECs for Surface Application”, which includes CECs listed as monitoring requirements in the State Water Resources Control Board’s (State Water Board) amendment to the Policy for Water Quality Control for Recycled Water (Recycled Water Policy) adopted on December 11, 2018, and effective as of April 8, 2019. The amendment included updates to the CECs monitoring list based on the 2018 Science Advisory Panel recommendations. Additionally, the DDW issued notification levels (NLs) for two of the CECs on July 13, 2018; perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). The monitoring for PFOS and PFOA in recycled water began in 4Q18.

B. Recycled Water: Basin and Lysimeter Samples

Total organic carbon (TOC) and nitrogen species sampling and analyses are performed weekly or monthly at lysimeters at some basins when recycled water is being delivered, for the determination of compliance with Recycled Water Specifications A.7 and A.9 of the Order. 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 2Q19 are summarized in Table 2-5a. The table includes surface water and lysimeter data at the 25-foot depth for Brooks and Declez Basin. Most compliance sampling for TOC and TN of the recycled water at each basin is analyzed using alternative monitoring plans (Section 2.C), and not lysimeter data. Currently, the only lysimeter monitoring data used to assess compliance is at Brooks (TN only) and Declez Basins. There were no exceedances of TN and TOC at Brooks and Declez Basins during 2Q19. Please note that as part of the Compliance Assessment Report comments, the DDW has requested that the TN limit of 10 mg/L be met at the recycled water without a reduction factor.

C. Recycled Water: Alternative Monitoring Plans for TOC and TN

As indicated in Recycled Water Compliance Determination B.5 and B.6 of the Order, alternative monitoring plans to the lysimeter-based compliance sampling for TOC and TN under Recycled Water Specifications A.7 and A.9 can be established upon development of a soil-aquifer treatment factor using recharge demonstration studies. The alternative monitoring plans can be determined in the basin Start-up Period Reports or First Year Operations Reports. The alternative TOC and TN monitoring plans approved by the Regional Board and DDW include alternative monitoring locations that include: sampling at a

recycled water distribution turnout with the application of a correction factor; monitoring at one basin lysimeter; and/or monitoring at a basin monitoring well. The following are the alternative monitoring plans for each basin:

- Banana Basin: Sampling at the NRG turnout with a correction factor of 80 percent for TOC and 37 percent for TN (added to Table 2-5b in 2Q18 because alternative monitoring plan was located in the First Year Operations Report for Banana Basin prepared by WEI & IEUA in September 2007)
- Hickory Basin: Sampling at the NRG turnout with a correction factor of 81 percent for TOC and 27 percent for TN (added to Table 2-5b in 2Q18 because alternative monitoring plan was located in the First Year Operations Report for Hickory Basins prepared by WEI & IEUA in October 2007)
- Turner Basins 1 & 2: Sampling at the NRG turnout with a correction factor of 70 percent for TOC and 87 percent for TN
- Turner Basins 3 & 4: Sampling at the NRG turnout with a correction factor of 85 percent for TOC and 87 percent for TN
- Ely Basins: Sampling RP-1 recycled water with a correction factor of 76 percent for TOC and 52 percent for TN
- RP3 Basin: Sampling at the NRG turnout with a correction factor of 88 percent for TOC and 31 percent for TN
- 8th Street Basin: Sampling at the NRG turnout with a correction factor of 88 percent for TOC and 75 percent for TN
- San Sevaïne 5 Basin: Sampling at the NRG turnout with a correction factor of 78 percent for TOC and 69 percent for TN (removed from Table 2-5b in 2Q18 because this site has not received recycled water since 2014)
- Victoria Basin: Sampling at the NRG turnout with a correction factor of 78 percent for TOC and 82 percent for TN
- Brooks Basin: Sampling at the 25-foot lysimeter is the compliance point for TN, and sampling at well BRK-1/1 is the compliance point for TOC

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. As part of the CAR review, the DDW identified that the TN limit could not be met using a reduction factor. However, they would allow us to meet the 10 mg/L TN limit from the GRRP regulations. Due to ongoing work with the Regional Board, the alternative monitoring using the reduction factor to meet a 5 mg/L limit in the Order will continue until the Regional Board approves a change of the TN limit in the Order.

Table 2-6 is a compliance summary table for RWC, TOC average, and TN compliance. It includes the following: when the basin started receiving recycled water, when the startup period was completed, the RWC limit, the current RWC, the current TOC average limit (based on Recycled Water Specification A.10), the calculated monthly TOC averages, compliance with the TN limit, and recharged water monitoring plans for TOC and TN. Some of these correction factors and locations for the compliance sampling have been modified since the basin's startup reports. These changes are described below.

In June 2015, the DDW issued a letter that approved the request for 50% RWC for most of the GWR basins, with the exception of RP3, San Sevaïne 5, and Turner Basins. The letter stated that based on the data that was provided: "For most of the recharge basins, the data does show an increasing amount of EC and chloride in the mound monitoring wells over time, indicating that recycled water is reaching the

mound. Corresponding TOC data from the mound monitoring wells also show a consistent TOC level of less than 1.0 mg/L when recycled water is present; therefore, increasing the RWC limit to 50 percent for some basins is justified.” Starting 1Q17, the TOC reduction factor at the 8th Street Basin was amended to 88% to align with the DDW’s evaluation and allowance of a 50% RWC. The 80% reduction factor was determined based on mound monitoring well data from 2008 to 2016.

During 2Q19, there were no exceedances of TOC and TN at the basins that have implemented alternative monitoring plans.

D. Diluent Water

In addition to recycled water recharge, the two other recharge water sources are imported water and stormwater / local runoff; these two types of water are considered diluent water. Imported water and stormwater / local runoff must be sampled quarterly in accordance with the DDW-approved Diluent Water Monitoring Plan.

Details on the methods used to measure daily diluent water flow and diluent water monitoring schedule can be found in the 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. For 2Q19, diluent water quality sampling of local runoff was conducted during the month of May 2019. Table 2-7a lists the results of the local runoff sampling and analyses.

The monitoring for PFOS and PFOA added to the diluent water during 4Q18 to comply with the monitoring requirement for NLs found in Title 22 CCR, Division 4, Chapter 3. Article 5.1, §60320.114.

State Water Project water was delivered as diluent water during 2Q19. Table 2-7b lists the results from Metropolitan Water District’s general mineral and physical analysis of source water from Silverwood Lake for the calendar months that imported water deliveries occurred.

E. 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, San Sevaine, Victoria, and Declez Basins are summarized in Table 2-8, 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 2-9a.

Any 2Q19 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 are not reported to the DDW but are 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 six monitoring wells, namely: T-2/1, RP3-1/1, BRK-1/1, BRK-2/1, and SSV-2. The secondary MCL for color of 15 units was exceeded at

RP3-1/1. The secondary MCL for iron of 300 µg/L was exceeded at Ontario Well No. 35 and the secondary MCL for manganese of 50 µg/L was exceeded at BRK-2/2.

TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 µmhos/cm, respectively, in ALCOA MW3. Only TDS was exceeded at Southridge JHS, ALCOA MW1, and Ely MW2. 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 historically 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 at the 8th Street, RP3, Brooks, Turner, and Ely monitoring well networks have nitrate as nitrogen (NO₃-N) concentrations above the primary MCL of 10 mg/L. The NO₃-N levels range from 10 to 30 mg/L and are characteristic of groundwater quality in these areas of the Chino Basin. The distribution of NO₃-N concentrations observed at wells in the Chino Basin is summarized in Watermaster's State of the Basin Reports. No notifications were made to the DDW as these high NO₃-N concentrations are comparable to the ambient NO₃-N concentration in groundwater for each monitoring well's respective groundwater management zone within the Chino Basin.

The current State of the Basin Report, which is the "Chino Basin Optimum Basin Management Program 2016 State of the Basin Report" published in June 2019 was prepared by Wildermuth Environmental for the CBWM. The 2018 State of the Basin report can be downloaded from CBWM's website, www.cbwm.org.

The 2014 GRRP regulations require two downgradient monitoring wells to be monitored quarterly for Priority Pollutants, and that the wells are located (A) no less than two weeks but no more than six months of travel through the unsaturated 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 2-9b.

Groundwater quality samples are collected and tested annually for constituents specified in the Phase II Findings of Fact, Attachment A in the permit (Bullet 27 in the Conditions Section). The annual groundwater monitoring well sampling occurred during 2Q19. The groundwater constituents analyzed from the monitoring wells during annual monitoring are presented in Table 2-9c.

During the annual sampling event, the perchlorate concentration at BRK-1/2 was above the primary MCL of 6 µg/L. Perchlorate concentrations at BRK-1/2 have always been at levels slightly above the MCL since sampling at this well began in early 2007, prior to recycled water recharge. The perchlorate concentrations in BRK-1/2 are consistent with historical background groundwater concentration founds at nearby wells in the Pomona area. The perchlorate concentrations in these areas are reported in the Watermaster's State of the Basin reports.

3. Recharge Operations

IEUA's GWR staff records the daily volumes of water routed to all basins. The 8th Street, Banana, Brooks, Declez, 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 the most recent four quarters 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.

Several monitoring wells were not sampled during 2Q19: Ely MW1 is inoperative due to a pump being stuck in the well and Pomona Well No. 10 was offline.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 2Q19 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, Declez, 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 within 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 June 2019, MVWD restarted injection activities for the first time since May 2018. The injection activities continued through May 2018. 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 for the last year.

Table 2-1a
Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for April 2019
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	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}
Limits	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240
04/01/19	0.6	9.0	6.5		6.5	6.9	656			<1	0.4	5.8	2.7		2.7	7.0	734			<1
04/02/19	0.6	9.1	4.9		4.9	6.8	698			<1	0.3	5.8	3.2		3.2	7.1	736			<1
04/03/19	0.7	8.9	5.6		5.6	6.9	715			<1	0.4	5.8	3.6		3.6	7.1	743			<1
04/04/19	0.7	8.6	5.1		5.1	6.9	703			<1	0.3	5.5	4.9		4.9	7.1	730			<1
04/05/19	0.7	7.8				6.9	702			1	0.3	5.2				7.1	724			<1
04/06/19	0.7	8.0				6.9	719			<1	0.3	5.2				7.1	729			<1
04/07/19	0.7	8.7	4.6	4.6	4.6	6.9	692	466	143	<1	0.3	5.7	3.5	3.5	3.5	7.1	728	416	129	<1
04/08/19	0.8	8.5	4.3		4.3	6.9	668			<1	0.4	5.3	3.1		3.1	7.1	685			<1
04/09/19	0.7	7.8	4.0		4.0	6.9	674			<1	0.4	5.1	3.0		3.0	7.1	680			<1
04/10/19	0.8	7.9	4.2		4.2	6.9	694			<1	0.4	5.2	3.6		3.6	7.1	603			<1
04/11/19	0.7	7.9	3.8		3.8	6.9	689			1	0.4	4.9	4.5		4.5	7.1	676			<1
04/12/19	0.8	8.1				6.9	712			1	0.4	5.2				7.1	667			<1
04/13/19	0.8	7.7				6.9	708			<1	0.4	5.3				7.1	680			<1
04/14/19	0.8	8.0	4.3	4.3	4.3	6.9	678	450		<1	0.4	5.1	3.5	4.0	3.5	7.1	687	408		<1
04/15/19	0.9	9.1	3.3		3.3	6.9	666			<1	0.4	5.2	3.2		3.2	7.1	693			<1
04/16/19	1.0	14.4	3.9		3.9	7.0	745			<1	0.4	5.0	3.7		3.7	7.0	620			<1
04/17/19	0.9	8.3	3.8			7.0	833			<1	0.4	5.1	4.7			7.0	626			<1
04/18/19	1.0	8.3	3.4			7.0	831			<1	0.4	4.8	4.6			7.0	684			<1
04/19/19	0.9	8.5				7.1	828			<1	0.4	5.1				7.0	682			<1
04/20/19	0.9	8.5				7.0	833			<1	0.4	4.9				7.0	681			<1
04/21/19	0.9	7.7	4.4	4.7	4.7	7.0	821	456		<1	0.4	5.3	3.1	3.3	3.3	7.0	692	408		<1
04/22/19	1.0	8.3	4.2		4.4	7.0	771			10.9	0.4	5.1	2.9		3.1	7.0	714			<1
04/23/19	0.9	7.9	4.1		4.1	7.0	757			<1	0.4	5.3	3.2		3.2	7.0	693			<1
04/24/19	1.0	7.9	3.6		3.8	6.9	776			<1	0.3	5.2	3.7		3.9	7.0	832			<1
04/25/19	1.2	8.4	3.2		3.4	7.1	780			<1	0.3	5.1	3.6		3.8	6.9	726			<1
04/26/19	1.3	8.3				7.1	786			2	0.3	5.1				6.9	707			<1
04/27/19	1.2	7.3				7.0	797			<1	0.3	4.9				6.9	708			<1
04/28/19	1.1	7.6	4.6	4.8	4.9	7.0	779	470		<1	0.4	5.3	3.8	4.0	4.2	6.9	713	402		<1
04/29/19	1.0	8.2	4.5		4.5	7.0	773			1	0.3	5.3	3.2		3.2	7.0	718			<1
04/30/19	1.0	7.9	4.0		4.0	7.0	785			<1	0.3	5.1	3.5		3.5	7.0	720			<1
Avg	0.9	8.4	4.3	4.6	4.4	6.9	742	461	143	<1	0.4	5.2	3.6	3.7	3.5	7.0	700	409	129	<1
Min	0.6	7.3	3.2	4.3	3.3	6.8	656	450	143	<1	0.3	4.8	2.7	3.3	2.7	6.9	603	402	129	<1
Max	1.3	14.4	6.5	4.8	6.5	7.1	833	470	143	11	0.4	5.8	4.9	4.0	4.9	7.1	832	416	129	<1

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 the 12-month running average of the combined effluent from all plants, 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 reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

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 May 2019
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	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}
Limits	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240
05/01/19	0.9	7.2	3.8		3.8	7.0	776			<1	0.3	5.2	4.7		4.7	6.9	726			<1
05/02/19	0.9	7.5	3.8		3.8	6.9	798			<1	0.3	5.4	6.0		6.0	6.9	738			<1
05/03/19	0.9	7.5				7.0	786			<1	0.3	5.4				6.8	728			<1
05/04/19	0.9	7.5				7.0	792			1	0.3	5.2				6.9	730			<1
05/05/19	0.9	7.6	4.7	4.7	4.7	7.0	773	472	144	<1	0.3	5.4	4.0	4.0	4.0	6.9	747	418	114	<1
05/06/19	1.0	8.0	4.3		4.3	7.1	764			<1	0.3	5.4	3.4		3.4	7.0	735			<1
05/07/19	1.0	7.8	3.9		3.9	7.2	791			<1	0.3	5.4	3.8		3.8	7.1	697			<1
05/08/19	1.0	7.8	3.6		3.6	7.3	804			<1	0.3	5.2	4.2		4.2	7.0	699			<1
05/09/19	1.0	7.8	2.9		2.9	7.2	808			1	0.3	5.2	4.0		4.0	7.0	749			<1
05/10/19	1.1	7.5				7.2	815			<1	0.3	5.2				7.0	744			<1
05/11/19	1.0	7.6				7.3	814			<1	0.3	5.0				7.0	712			<1
05/12/19	1.1	7.3	4.0	4.0	4.0	7.0	782	456		<1	0.3	5.0	3.6	3.6	3.6	7.1	711	422		<1
05/13/19	1.0	7.6	4.8		4.8	7.0	781			<1	0.3	5.0	3.2		3.2	7.1	685			<1
05/14/19	0.9	7.6	4.1		4.1	7.0	795			<1	0.4	5.1	3.1		3.1	7.1	727			<1
05/15/19	0.9	7.5	3.9		3.9	7.0	797			<1	0.3	4.8	3.7		3.7	7.1	723			<1
05/16/19	1.0	7.6	3.4		3.4	7.0	805			<1	0.3	4.7	5.0		5.0	7.2	724			<1
05/17/19	1.0	7.6				7.0	821			<1	0.3	4.7				7.1	720			<1
05/18/19	1.0	7.9				7.1	834			<1	0.3	4.9				7.1	743			<1
05/19/19	0.9	7.7	4.1	4.1	4.1	7.1	828	464		<1	0.3	5.2	4.0	4.5	4.0	7.1	762	430		<1
05/20/19	0.9	8.2	3.4		3.4	7.0	741			<1	0.3	5.4	3.8		3.8	7.1	782			<1
05/21/19	0.9	8.1	2.8		2.8	7.0	707			<1	0.3	5.3	4.3		4.3	7.1	810			<1
05/22/19	0.9	7.5	3.0		3.0	7.0	724			2	0.4	5.2	4.9		4.9	7.0	793			<1
05/23/19	0.9	7.6	2.9		3.0	6.9	719			<1	0.4	5.0	4.9		4.9	7.0	792			<1
05/24/19	0.8	6.9				6.9	737			<1	0.3	5.0				7.0	798			<1
05/25/19	0.9	7.0				6.9	748			<1	0.3	5.2				7.0	802			<1
05/26/19	0.8	6.9				6.9	733			<1	0.4	5.0				7.1	792			<1
05/27/19	0.8	7.3	3.8		3.8	6.9	727			<1	0.4	5.3	3.7		3.7	7.0	770			<1
05/28/19	0.9	7.7	3.4		3.4	6.9	736			<1	0.4	5.3	3.1		3.1	7.0	747			<1
05/29/19	0.9	7.4	2.5	2.5	2.5	6.9	737	482		<1	0.5	5.1	3.4	4.2	3.4	7.0	763	426		<1
05/30/19	0.8	7.5	1.9		1.9	6.9	748			<1	0.4	5.2	3.8		3.8	7.0	783			<1
05/31/19	0.7	7.4				7.0	752			<1	0.4	5.1				7.0	780			<1
Avg	0.9	7.5	3.6	3.8	3.6	7.0	773	469	144	<1	0.3	5.1	4.0	4.1	4.0	7.0	749	424	114	<1
Min	0.7	6.9	1.9	2.5	1.9	6.9	707	456	144	<1	0.3	4.7	3.1	3.6	3.1	6.8	685	418	114	<1
Max	1.1	8.2	4.8	4.7	4.8	7.3	834	482	144	2	0.5	5.4	6.0	4.5	6.0	7.2	810	430	114	<1

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 the 12-month running average of the combined effluent from all plants, 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 reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

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 June 2019
(Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

Unit	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}
Limits	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240	2.5;10	16 ⁵		10 / 5 ⁶		6<pH<9				2.2;23;240
06/01/19	0.7	7.5				7.0	756			<1	0.4	5.1				7.0	781			<1
06/02/19	0.8	7.0	2.9	2.9	2.9	6.9	747	486	149	<1	0.4	5.2	4.0	4.7	4.0	7.0	767	440	128	<1
06/03/19	0.9	7.7	2.7		2.7	7.0	769			1	0.4	5.3	3.8		3.8	7.0	683			<1
06/04/19	1.0	8.0	1.4		1.4	7.1	835			<1	0.4	5.2	3.7		3.7	7.0	682			<1
06/05/19	0.9	7.2	1.6		1.6	7.1	843			<1	0.4	5.2	3.9		3.9	7.0	669			<1
06/06/19	0.9	7.7	1.1			7.1	844			<1	0.4	5.2	3.9			7.0	779			<1
06/07/19	0.9	7.4				7.1	858			1	0.4	5.0				7.0	775			<1
06/08/19	0.9	7.7				7.1	856			<1	0.4	5.3				7.0	775			<1
06/09/19	0.9	7.5	1.2	1.2	1.2	7.1	826	474		<1	0.4	5.4	3.0	3.7	3.0	7.0	781	446		<1
06/10/19	0.8	8.0	1.3		1.3	7.0	808			<1	0.4	5.5	3.3		3.3	7.0	776			<1
06/11/19	0.7	8.2	0.8		0.8	7.0	871			6.3	0.4	5.5	3.2		3.2	7.1	781			<1
06/12/19	0.6	7.8	1.3		1.3	7.0	851			<1	0.4	5.4	3.4		3.4	7.1	796			<1
06/13/19	0.5	7.4	1.3		1.3	7.0	851			<1	0.4	5.3	3.2		3.2	7.1	797			<1
06/14/19	0.5	7.0				7.0	861			<1	0.5	5.3				7.1	787			<1
06/15/19	0.5	7.0				7.1	861			<1	0.5	5.2				7.0	795			<1
06/16/19	0.6	7.1	3.2	3.2	3.2	7.0	849	496		<1	0.5	5.6	3.4	4.0	3.4	7.1	780	400		<1
06/17/19	0.6	7.4	2.9		2.9	7.0	849			<1	0.5	5.6	3.4		3.4	7.1	664			<1
06/18/19	0.7	7.9	2.7		2.7	7.0	908			1	0.5	5.7	3.6		3.6	7.0	683			<1
06/19/19	0.8	7.1	2.9		2.9	7.0	931			QC	0.4	5.4	3.8		4.2	7.0	686			QC
06/20/19	0.7	7.4	1.9		2.1	7.0	930			<1	0.4	5.4	4.1		4.2	7.0	740			<1
06/21/19	0.7	7.0				7.1	934			<1	0.4	5.3				7.1	741			<1
06/22/19	0.8	7.0				7.1	936			<1	0.4	5.2				7.1	752			<1
06/23/19	0.8	6.9	2.3	2.3	2.3	7.0	914	474		<1	0.4	5.5	3.6	4.7	3.6	7.1	746	440		<1
06/24/19	0.8	7.4	3.1		3.1	7.0	874			<1	0.4	5.6	3.4		3.4	7.1	769			<1
06/25/19	0.8	7.5	2.9		2.9	7.0	889			<1	0.4	5.6	3.5		3.5	7.1	764			<1
06/26/19	0.8	7.0	2.9		2.9	7.0	898			<1	0.4	5.5	4.2		4.2	7.0	756			<1
06/27/19	0.8	7.6	1.7		1.7	7.0	899			<1	0.4	5.5	4.4		4.4	7.1	742			<1
06/28/19	0.9	7.1				7.0	899			<1	0.4	5.4				7.0	734			<1
06/29/19	0.9	7.0				7.0	913			<1	0.4	5.4				7.0	744			<1
06/30/19	0.9	7.1	4.1	4.1	4.1	6.9	909			<1	0.4	5.6	3.5	4.1	3.5	7.1	745			<1
Avg	0.8	7.4	2.2	2.7	2.3	7.0	866	483	149	<1	0.4	5.4	3.6	4.2	3.6	7.0	749	432	128	<1
Min	0.5	6.9	0.8	1.2	0.8	6.9	747	474	149	<1	0.4	5.0	3.0	3.7	3.0	7.0	664	400	128	<1
Max	1.0	8.2	4.1	4.1	4.1	7.1	936	496	149	6	0.5	5.7	4.4	4.7	4.4	7.1	797	446	128	<1

Note: **Bolded characters signify an exceedance of a permit limitation**

QC: quality control test failure

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 the 12-month running average of the combined effluent from all plants, 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 reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L, TN compliance met in RW / RWQCB limit is 5 mg/L, TN compliance met at a point prior to reaching the regional groundwater table, including lysimeters, or reduction factors

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.
Jul-18	4.6	5.4	484	468
Aug-18	4.3	5.3	478	471
Sep-18	5.2	5.3	467	473
Oct-18	4.7	5.1	496	479
Nov-18	5.9	5.1	505	483
Dec-18	5.0	4.9	487	487
Jan-19	6.2	5.0	503	490
Feb-19	4.9	5.0	485	490
Mar-19	5.7	5.1	495	489
Apr-19	5.2	5.1	476	489
May-19	4.2	5.0	487	488
Jun-19	3.0	4.9	489	488
Avg	4.9	5.1	488	483
Min	3.0	4.9	467	468
Max	6.2	5.4	505	490
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 2-3a
Recycled Water Monitoring - RW Blend (RP1/RP-4): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	3Q18	4Q18	1Q19	2Q19	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	32	72	96	31	58	1000	µg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<1	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.2	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Barium	18	15	14	17	16	1000	µg/L	EPA 200.8
Beryllium	<0.5	<1	<0.5	<0.5	<1	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.5	<0.25	<0.25	<0.5	5	µg/L	EPA 200.8
Chromium	1.8	<1	1.9	<0.5	1.3	50	µg/L	EPA 200.8
Chromium VI ²	0.36	0.28	0.24	0.39	0.32	10	µg/L	EPA 218.6
Cyanide	<20	<25	<20	<0.02	<25	150	µg/L	OIA-1677, DW
Fluoride	0.2	0.2	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.2	<0.5	<0.5	<0.5	2	µg/L	EPA 245.1
Nickel	3	<5	2	3	<5	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
Selenium	<2	<5	<2	<2	<5	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropane	<0.5	0.7	0.7	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ³	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		µg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/17)	0.007	<0.005	0.006	<0.005	<0.005	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.1	<0.1	<0.1	<0.1	2	µg/L	EPA 505
Atrazine	<5	<5	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	8	5	8	7	7	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	2.4	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505

Table 2-3a

Constituent	3Q18	4Q18	1Q19	2Q19	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	<25	700	µg/L	EPA 547
Heptachlor	<0.04	<0.04	<0.01	<0.04	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	0.05	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<4.07	<5	<5	<5	<5.12	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	4.0	2.0	6.1	5.6	4.4	1300	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	<0.16	0.28	<1	<0.337	<1	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<344	<337	<387	<314	<338	20,000	pCi/L	EPA 906
Strontium-90	<1.04	<0.90	<3	<1	<1.04	8	pCi/L	EPA 905
Gross Beta Particle Activity	13	15	13	15	14	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	32	72	96	31	58	200	µg/L	EPA 200.8
Copper	4.0	2.0	6.1	5.6	4.4	1000	µg/L	EPA 200.8
Corrosivity	-0.2 (Non-Cor.)	0.3 (Non-Cor.)	-0.6 (Non-Cor.)	-0.5 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	<0.1	<0.1	NR	<0.1	<0.1	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	NR	63	NR	<15	47	300	µg/L	EPA 200.7
Manganese	14	9	16	11	13	50	µg/L	EPA 200.8
Methyl-tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Odor--Threshold	40	8	8	2	15	3	TON	SM 2150B
Silver	<0.25	NR	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.5	1	µg/L	EPA 525.2

NA: Not analyzed

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 As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

³ The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

⁴ 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.

⁵ Oil & Grease compliance determination not based on 4-quarter running average

⁶ 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 2-3b
Recycled Water Monitoring - RP-1 (001B Effluent): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	3Q18	4Q18	1Q19	2Q19	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	--	--	--	84	--	1000	µg/L	EPA 200.8
Antimony	--	--	--	<1	--	6	µg/L	EPA 200.8
Arsenic	--	--	--	<2	--	10	µg/L	EPA 200.8
Asbestos	--	--	--	<0.2	--	7	MFL	EPA 100.2
Barium	--	--	--	20	--	1000	µg/L	EPA 200.8
Beryllium	--	--	--	<0.5	--	4	µg/L	EPA 200.8
Cadmium	--	--	--	<0.25	--	5	µg/L	EPA 200.8
Chromium	--	--	--	<0.5	--	50	µg/L	EPA 200.8
Chromium VI ²	--	--	--	--	--	10	µg/L	EPA 218.6
Cyanide	--	--	--	<2	--	150	µg/L	OIA-1677, DW
Fluoride	--	--	--	0.2	--	2	mg/L	SM 4500-F C
Mercury	--	--	--	<0.025	--	2	µg/L	EPA 245.1
Nickel	--	--	--	3	--	100	µg/L	EPA 200.8
Perchlorate	--	--	--	--	--	6	µg/L	EPA 314/331.0
Selenium	--	--	--	<2	--	50	µg/L	EPA 200.8
Thallium	--	--	--	<1	--	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	--	--	--	<0.5	--	1	µg/L	EPA 524.2
Carbon Tetrachloride	--	--	--	1.7	--	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	--	--	--	<0.5	--	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	--	--	--	<0.5	--	5	µg/L	EPA 524.2
1,1-Dichloroethane	--	--	--	<0.5	--	5	µg/L	EPA 524.2
1,2-Dichloroethane	--	--	--	<0.5	--	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	--	--	--	<0.5	--	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	--	--	--	<0.5	--	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	--	--	--	<0.5	--	10	µg/L	EPA 524.2
Dichloromethane	--	--	--	2.0	--	5	µg/L	EPA 524.2
1,2-Dichloropropane	--	--	--	<0.5	--	5	µg/L	EPA 524.2
1,3-Dichloropropene	--	--	--	<0.5	--	0.5	µg/L	EPA 524.2
Ethylbenzene	--	--	--	<0.5	--	300	µg/L	EPA 524.2
Monochlorobenzene	--	--	--	<0.5	--	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	--	--	--	<0.5	--	13	µg/L	EPA 524.2
Styrene	--	--	--	<0.5	--	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	--	--	--	<0.5	--	1	µg/L	EPA 524.2
Tetrachloroethylene	--	--	--	<0.5	--	5	µg/L	EPA 524.2
Toluene	--	--	--	<0.5	--	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	--	--	--	<0.5	--	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	--	--	--	<0.5	--	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	--	--	--	<0.5	--	5	µg/L	EPA 524.2
Trichloroethylene	--	--	--	<0.5	--	5	µg/L	EPA 524.2
Trichlorofluoromethane	--	--	--	<0.5	--	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	<0.5	--	1200	µg/L	EPA 524.2
Vinyl Chloride	--	--	--	<0.5	--	0.5	µg/L	EPA 524.2
m,p-Xylene	--	--	--	<0.5	--	1750 ³	µg/L	EPA 524.2
o-Xylene	--	--	--	<0.5	--		µg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/17)	--	--	--	<0.005	--	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	--	--	--	<0.1	--	2	µg/L	EPA 505
Atrazine	--	--	--	<0.05	--	1	µg/L	EPA 525.2
Bentazon	--	--	--	<0.5	--	18	µg/L	EPA 515.4
Benzo(a)pyrene	--	--	--	<0.02	--	0.2	µg/L	EPA 525.2
Carbofuran	--	--	--	<0.5	--	18	µg/L	EPA 531.2
Chlordane	--	--	--	<0.1	--	0.1	µg/L	EPA 505
2,4-D	--	--	--	<0.1	--	70	µg/L	EPA 515.4
Dalapon	--	--	--	4	--	200	µg/L	EPA 515.4
Dibromochloropropane	--	--	--	<0.01	--	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	--	--	--	<0.6	--	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	--	--	--	<0.6	--	4	µg/L	EPA 525.2
Dinoseb	--	--	--	<0.2	--	7	µg/L	EPA 515.4
Diquat	--	--	--	<0.4	--	20	µg/L	EPA 549.2
Endothall	--	--	--	<5	--	100	µg/L	EPA 548.1
Endrin	--	--	--	<0.01	--	2	µg/L	EPA 505

Table 2-3b
Recycled Water Monitoring - RP-1 (001B Effluent): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, & A.15)

Constituent	3Q18	4Q18	1Q19	2Q19	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	--	--	--	<0.01	--	0.05	µg/L	EPA 504.1
Glyphosate	--	--	--	<6	--	700	µg/L	EPA 547
Heptachlor	--	--	--	<0.01	--	0.01	µg/L	EPA 505
Heptachlor Epoxide	--	--	--	<0.01	--	0.01	µg/L	EPA 505
Hexachlorobenzene	--	--	--	<0.05	--	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	--	--	--	<0.05	--	50	µg/L	EPA 525.2
Lindane	--	--	--	<0.01	--	0.2	µg/L	EPA 505
Methoxychlor	--	--	--	<0.05	--	30	µg/L	EPA 505
Molinate	--	--	--	<0.1	--	20	µg/L	EPA 525.2
Oxamyl	--	--	--	<0.5	--	50	µg/L	EPA 531.2
Pentachlorophenol	--	--	--	<0.04	--	1	µg/L	EPA 515.4
Picloram	--	--	--	<0.1	--	500	µg/L	EPA 515.4
PCB 1016	--	--	--	<0.08	--	0.5	µg/L	EPA 505
PCB 1221	--	--	--	<0.1	--	0.5	µg/L	EPA 505
PCB 1232	--	--	--	<0.1	--	0.5	µg/L	EPA 505
PCB 1242	--	--	--	<0.1	--	0.5	µg/L	EPA 505
PCB 1248	--	--	--	<0.1	--	0.5	µg/L	EPA 505
PCB 1254	--	--	--	<0.1	--	0.5	µg/L	EPA 505
PCB 1260	--	--	--	<0.1	--	0.5	µg/L	EPA 505
Simazine	--	--	--	<0.05	--	4	µg/L	EPA 525.2
Thiobencarb	--	--	--	<0.2	--	70	µg/L	EPA 525.2
Toxaphene	--	--	--	<0.5	--	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	--	--	--	<5	--	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	--	--	--	<0.2	--	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	--	--	--	5.1	--	1300	µg/L	EPA 200.8
Lead	--	--	--	<0.5	--	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	--	--	--	<0.37	--	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	--	--	--	<3	--	15	pCi/L	EPA 900.0/SM7110C
Tritium	--	--	--	<314	--	20,000	pCi/L	EPA 906
Strontium-90	--	--	--	<0.54	--	8	pCi/L	EPA 905
Gross Beta Particle Activity	--	--	--	17	--	50	pCi/L	EPA 900.0
Uranium	--	--	--	<0.7	--	20	pCi/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals								
Aluminum	--	--	--	84	--	200	µg/L	EPA 200.8
Copper	--	--	--	5.1	--	1000	µg/L	EPA 200.8
Corrosivity	--	--	--	-0.4 (Non-Cor.)	--	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	--	--	--	NA	--	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	--	--	--	NA	--	300	µg/L	EPA 200.7
Manganese	--	--	--	7	--	50	µg/L	EPA 200.8
Methyl-tert-butyl ether (MTBE)	--	--	--	<0.5	--	5	µg/L	EPA 524.2
Odor--Threshold	--	--	--	3	--	3	TON	SM 2150B
Silver	--	--	--	<0.25	--	100	µg/L	EPA 200.8
Thiobencarb	--	--	--	<0.2	--	1	µg/L	EPA 525.2
Zinc	--	--	--	41	--	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁵	--	--	--	NA	--	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	--	--	--	<1	--	10	µg/L	EPA 300.1/317
Chlorite	--	--	--	<0.01	--	1	mg/L	EPA 300.0

NR: Not required this quarter

NA: Not analyzed

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 As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

³ The sum of m,p-Xylene and o-Xylene is used to calculate compliance for the Total Xylenes limit

⁴ 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.

⁵ 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 2-4a
Recycled Water Monitoring - RW Blend (RP1/RP-4): Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals
(Monitoring & Reporting Program)

Constituent	2Q19	Unit	Method	Constituent	2Q19	Unit	Method	
Volatile Organic Chemicals (VOCs)				Pesticides				
Acrolein	<2	µg/L	EPA 624	N-Nitroso-di-n-propylamine	<1	µg/L	EPA 625	
Acrylonitrile	<2	µg/L	EPA 624	N-Nitrosodiphenylamine	<1	µg/L	EPA 625	
Bromoform	<0.5	µg/L	EPA 524.2/624	Phenanthrene	<1	µg/L	EPA 625	
Chlorodibromomethane	2.8	µg/L	EPA 524.2/624	Pyrene	<1	µg/L	EPA 625	
Chloroethane	<0.5	µg/L	EPA 524.2/624	Aldrin	<0.01	µg/L	EPA 505/608	
2-Chloroethylvinylether	<1	µg/L	EPA 524.2/624	BHC, alpha isomer	<0.1	µg/L	EPA 525/608	
Chloroform	87	µg/L	EPA 524.2/624	BHC, beta isomer	<0.1	µg/L	EPA 525/608	
Dichlorobromomethane	<0.5	µg/L	EPA 524.2/624	BHC, delta isomer	<0.1	µg/L	EPA 525/608	
Methyl Bromide	<0.5	µg/L	EPA 524.2/624	4,4'-DDT	<0.1	µg/L	EPA 525/608	
Methyl Chloride	<0.5	µg/L	EPA 524.2/624	4,4'-DDE	<0.1	µg/L	EPA 525/608	
Acid Extractibles				4,4'-DDD	<0.1	µg/L	EPA 525/608	
2-Chlorophenol	<1	µg/L	EPA 625	Dieldrin	<0.01	µg/L	EPA 505/608	
2,4-Dichlorophenol	<2	µg/L	EPA 625	Endosulfan I	<0.1	µg/L	EPA 525/608	
2,4-Dimethylphenol	<1	µg/L	EPA 625	Endosulfan II	<0.1	µg/L	EPA 525/608	
2-Methyl-4,6-dinitrophenol	<2	µg/L	EPA 625	Endosulfan Sulfate	<0.1	µg/L	EPA 525/608	
2,4-Dinitrophenol	<3	µg/L	EPA 625	Chemicals w/ State Notification Levels (NLS)			NL	
2-Nitrophenol	<1	µg/L	EPA 625	Boron	0.2	mg/L	EPA 200.7	1
4-Nitrophenol	<3	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2	260
4-Chloro-3-methylphenol	<1	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2	260
Phenol	<1	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2	260
2,4,6-Trichlorophenol	<1	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2	160
Base/Neutral Extractibles				Chlorate	NA	µg/L	EPA 300.0	800
Acenaphthene	<1	µg/L	EPA 625	2-Chlorotoluene	<0.5	µg/L	EPA 524.2	140
Acenaphthylene	<1	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2	140
Anthracene	<1	µg/L	EPA 625	Diazinon	<0.1	µg/L	EPA 525.2	1.2
Benzidine	<5	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12	<0.5	µg/L	EPA 524.2	1000
Benzo(a)anthracene	<5	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522	1
Benzo(b)fluoranthene	<1	µg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B	14
Benzo(g,h,i)perylene	<2	µg/L	EPA 625	Formaldehyde	37	µg/L	EPA 556	100
Benzo(k)fluoranthene	<1	µg/L	EPA 625	HMX	<0.4	µg/L	EPA 8330B	350
Bis(2-chloroethoxy)methane	<2	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2	770
Bis(2-chloroethyl)ether	<1	µg/L	EPA 625	Manganese	11.0	µg/L	EPA 200.8	500
Bis(2-chloroisopropyl)ether	<1	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2	120
4-Bromophenyl phenyl ether	<1	µg/L	EPA 625	Naphthalene	<0.3	µg/L	EPA 525.2	17
Butyl benzyl phthalate	<1	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521	10
2-Chloronaphthalene	<1	µg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	4	ng/L	EPA 521	10
4-Chlorophenyl phenyl ether	<1	µg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521	10
Chrysene	<1	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	13 /14	ng/L	EPA 537	14
Dibenzo(a,h)anthracene	<1	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOA)	<2 / 2	ng/L	EPA 537	13
1,3-Dichlorobenzene	<1	µg/L	EPA 625	Propachlor	<0.05	µg/L	EPA 525.2	90
3,3-Dichlorobenzidine	<5	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2	200
Diethyl phthalate	<2	µg/L	EPA 625	RDX	<0.4	µg/L	EPA 8330B	0.3
Dimethyl phthalate	<1	µg/L	EPA 625	Tertiary butyl alcohol		µg/L	EPA 524.2	12
Di-n-butyl phthalate	<1	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2	330
2,4-Dinitrotoluene	<1	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2	330
2,6-Dinitrotoluene	<2	µg/L	EPA 625	2,4,6-Trinitrotoluene		µg/L	EPA 8330B	1
Di-n-octyl phthalate	<1	µg/L	EPA 625	Vanadium	<5	µg/L	EPA 200.8	50
Azobenzene	<1	µg/L	EPA 625	Health-based and performance indicator CECs for Surface Application				
Fluoranthene	<1	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522	
Fluorene	<1	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	4.1	ng/L	EPA 521	
Hexachlorobutadiene	<1	µg/L	EPA 625	N-Nitrosomorphline	350	ng/L	EPA 521	
Hexachlorocyclopentadiene	<5	µg/L	EPA 625	PFOA	13 /14	ng/L	EPA 537	
Hexachloroethane	<1	µg/L	EPA 625	PFOS	<2 / 2	ng/L	EPA 537	
Indeno(1,2,3-cd)pyrene	<2	µg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS	
Isophorone	<1	µg/L	EPA 625	Iohexol	34000	ng/L	LC-MS-MS	
Naphthalene	<1	µg/L	EPA 625	Sucralose	56000	ng/L	LC-MS-MS	
Nitrobenzene	<1	µg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS	

NR: Not Required (Annual Requirement)

NA: Not analyzed

*Pursuant to the GRRP regulations, recharge water may be monitored in lieu of recycled water. Chlorate was sampled at BRK-LYS-25 during 4Q18 to meet the notification level.

Table 2-4b

Recycled Water Monitoring - RP-1 (001B Effluent): Remaining Priority Pollutants, EDCs & Pharmaceuticals, and Unregulated Chemicals
(Monitoring & Reporting Program)

Constituent	2Q19	Unit	Method	Constituent	2Q19	Unit	Method	
Volatile Organic Chemicals (VOCs)				Pesticides				
Acrolein	--	µg/L	EPA 624	N-Nitroso-di-n-propylamine	--	µg/L	EPA 625	
Acrylonitrile	--	µg/L	EPA 624	N-Nitrosodiphenylamine	--	µg/L	EPA 625	
Bromoform	<0.5	µg/L	EPA 524.2/624	Phenanthrene	--	µg/L	EPA 625	
Chlorodibromomethane	3.8	µg/L	EPA 524.2/624	Pyrene	--	µg/L	EPA 625	
Chloroethane	<0.5	µg/L	EPA 524.2/624	Aldrin	--	µg/L	EPA 505/608	
2-Chloroethylvinylether		µg/L	EPA 524.2/624	BHC, alpha isomer	--	µg/L	EPA 525/608	
Chloroform	57	µg/L	EPA 524.2/624	BHC, beta isomer	--	µg/L	EPA 525/608	
Dichlorobromomethane	18	µg/L	EPA 524.2/624	BHC, delta isomer	--	µg/L	EPA 525/608	
Methyl Bromide	<0.5	µg/L	EPA 524.2/624	4,4'-DDT	--	µg/L	EPA 525/608	
Methyl Chloride	3.9	µg/L	EPA 524.2/624	4,4'-DDE	--	µg/L	EPA 525/608	
Acid Extractibles				4,4'-DDD	--	µg/L	EPA 525/608	
2-Chlorophenol	--	µg/L	EPA 625	Dieldrin	--	µg/L	EPA 505/608	
2,4-Dichlorophenol	--	µg/L	EPA 625	Endosulfan I	--	µg/L	EPA 525/608	
2,4-Dimethylphenol	--	µg/L	EPA 625	Endosulfan II	--	µg/L	EPA 525/608	
2-Methyl-4,6-dinitrophenol	--	µg/L	EPA 625	Endosulfan Sulfate	--	µg/L	EPA 525/608	
2,4-Dinitrophenol	--	µg/L	EPA 625	Chemicals w/ State Notification Levels (NLS)			NL	
2-Nitrophenol	--	µg/L	EPA 625	Boron	0.3	mg/L	EPA 200.7	1
4-Nitrophenol	--	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2	260
4-Chloro-3-methylphenol	--	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2	260
Phenol	--	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2	260
2,4,6-Trichlorophenol	--	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2	160
Base/Neutral Extractibles				Chlorate	<0.01	µg/L	EPA 300.0	800
Acenaphthene	--	µg/L	EPA 625	2-Chlorotoluene	<0.5	µg/L	EPA 524.2	140
Acenaphthylene	--	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2	140
Anthracene	--	µg/L	EPA 625	Diazinon	<0.1	µg/L	EPA 525.2	1.2
Benzidine	--	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12	<0.5	µg/L	EPA 524.2	1000
Benzo(a)anthracene	--	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522	1
Benzo(b)fluoranthene	--	µg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B	14
Benzo(g,h,i)perylene	--	µg/L	EPA 625	Formaldehyde	30	µg/L	EPA 556	100
Benzo(k)fluoranthene	--	µg/L	EPA 625	HMX	<0.4	µg/L	EPA 8330B	350
Bis(2-chloroethoxy)methane	--	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2	770
Bis(2-chloroethyl)ether	--	µg/L	EPA 625	Manganese	8.2	µg/L	EPA 200.8	500
Bis(2-chloroisopropyl)ether	--	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2	120
4-Bromophenyl phenyl ether	--	µg/L	EPA 625	Naphthalene	<0.3	µg/L	EPA 525.2	17
Butyl benzyl phthalate	--	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521	10
2-Chloronaphthalene	--	µg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	6	ng/L	EPA 521	10
4-Chlorophenyl phenyl ether	--	µg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521	10
Chrysene	--	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	11	ng/L	EPA 537	14
Dibenzo(a,h)anthracene	--	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	2	ng/L	EPA 537	13
1,3-Dichlorobenzene	--	µg/L	EPA 625	Propachlor	<0.05	µg/L	EPA 525.2	90
3,3-Dichlorobenzidine	--	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2	200
Diethyl phthalate	--	µg/L	EPA 625	RDX	<0.4	µg/L	EPA 8330B	0.3
Dimethyl phthalate	--	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2	12
Di-n-butyl phthalate	--	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2	330
2,4-Dinitrotoluene	--	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2	330
2,6-Dinitrotoluene	--	µg/L	EPA 625	2,4,6-Trinitrotoluene	<0.4	µg/L	EPA 8330B	1
Di-n-octyl phthalate	--	µg/L	EPA 625	Vanadium	<5	µg/L	EPA 200.8	50
Azobenzene	--	µg/L	EPA 625	Health-based and performance indicator CECs for Surface Application				
Fluoranthene	--	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522	
Fluorene	--	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	5.5	ng/L	EPA 521	
Hexachlorobutadiene	--	µg/L	EPA 625	N-Nitrosomorphiline	27	ng/L	EPA 521	
Hexachlorocyclopentadiene	--	µg/L	EPA 625	PFOA	11	ng/L	EPA 537	
Hexachloroethane	--	µg/L	EPA 625	PFOS	2	ng/L	EPA 537	
Indeno(1,2,3-cd)pyrene	--	µg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS	
Isophorone	--	µg/L	EPA 625	Iohexol	44000	ng/L	LC-MS-MS	
Naphthalene	--	µg/L	EPA 625	Sucralose	110000	ng/L	LC-MS-MS	
Nitrobenzene	--	µg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS	

NR: Not Required (Annual Requirement)

*Pursuant to the GRRP regulations, recharge water may be monitored in lieu of recycled water. Chlorate was sampled at BRK-LYS-25 during 4Q18 to meet the notification level.

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

Brooks 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
BRK-LYS-00	0	04/04/19	6.63	2.6	1.9	1.9	0.7	<0.01	166
BRK-LYS-00	0	05/21/19	7.23	4.7	3.1	2.8	1.9	<0.01	677
BRK-LYS-00	0	06/19/19	5.98	4.7	2.7	2.6	2.1	<0.01	638
BRK-LYS-25	25	04/04/19	2.61	<0.6	<0.2	<0.1	<0.5	<0.01	371
BRK-LYS-25	25	05/21/19	2.78	0.6	<0.2	<0.1	0.6	<0.01	400
BRK-LYS-25	25	06/05/19	2.92	<0.6	<0.2	<0.1	<0.5	<0.01	538
BRK-LYS-25	25	06/19/19	2.88	1.0	<0.2	<0.1	1.0	<0.01	506
Declez Basin									
DCZ2-LYS-00	0	04/03/19	8.06	4.3	2.8	2.7	1.6	0.10	566
DCZ2-LYS-00	0	04/11/19	8.66	4.0	2.2	2.1	1.9	0.13	573
DCZ2-LYS-00	0	04/25/19	9.23	4.8	1.4	1.2	3.6	0.24	310
DCZ2-LYS-00	0	05/07/19	9.46	3.7	1.1	1.1	2.6	<0.01	623
DCZ2-LYS-00	0	05/22/19	12.7	12.3	0.9	0.8	11.5	<0.01	540
DCZ2-LYS-00	0	06/19/19	8.10	1.5	<0.2	<0.1	1.5	<0.01	562
DCZ2-LYS-25	25	04/03/19	2.03	<0.6	<0.2	0.1	<0.5	<0.01	180
DCZ2-LYS-25	25	04/11/19	1.81	<0.6	<0.2	0.1	<0.5	<0.01	178
DCZ2-LYS-25	25	04/25/19	1.90	<0.6	<0.2	<0.1	<0.5	0.17	342
DCZ2-LYS-25	25	05/07/19	2.16	<0.6	<0.2	<0.1	<0.5	<0.01	421
DCZ2-LYS-25	25	05/22/19	2.61	0.6	<0.2	<0.1	0.6	<0.01	550
DCZ2-LYS-25	25	06/05/19	2.92	<0.6	<0.2	<0.1	<0.5	<0.01	494
DCZ2-LYS-25	25	06/19/19	3.63	1.3	<0.2	<0.1	1.3	<0.01	473

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

Table 2-5b
Alternative Monitoring Plans

Banana Basin						
Date	RW Blend*	RW Blend*	RW Blend*	Banana	Banana	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (80% reduction)	TN (47% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L
04/01/19	5.48	3.3	4.6	1.10	1.7	2.4
04/08/19	5.61	4.1	4.1	1.12	2.1	1.9
04/15/19	6.68	4.8	4.8	1.34	2.5	2.3
04/22/19	5.88	4.8	4.8	1.18	2.6	2.5
04/29/19	7.23	5.7	5.7	1.45	3.0	2.8
05/06/19	6.81	5.8	5.8	1.36	3.1	3.1
05/13/19	5.71	4.6	4.6	1.14	2.4	2.8
05/20/19	6.22	5.8	5.8	1.24	3.1	2.8
05/28/19	4.98	5.3	5.3	1.00	2.8	2.9
06/03/19	6.72	4.5	4.5	1.34	2.4	2.6
06/10/19	6.67	4.0	4.0	1.33	2.1	2.3
06/17/19	6.52	4.7	4.7	1.30	2.5	2.3
06/24/19	6.49	4.3	4.3	1.30	2.3	2.4

Hickory Basin						
Date	RW Blend*	RW Blend*	RW Blend*	Hickory	Hickory	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (81% reduction)	TN (27% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L
04/01/19	5.48	3.3	4.6	1.04	2.4	4.1
04/08/19	5.61	4.1	4.1	1.06	3.0	2.7
04/15/19	6.68	4.8	4.8	1.27	3.5	3.2
04/22/19	5.88	4.8	4.8	1.12	3.5	3.5
04/29/19	7.23	5.7	5.7	1.37	4.2	3.8
05/06/19	6.81	5.8	5.8	1.29	4.2	4.2
05/13/19	5.71	4.6	4.6	1.08	3.4	3.8
05/20/19	6.22	5.8	5.8	1.18	4.2	3.8
05/28/19	4.98	5.3	5.3	0.95	3.9	4.0
06/03/19	6.72	4.5	4.5	1.28	3.3	3.6
06/10/19	6.67	4.0	4.0	1.27	2.9	3.1
06/17/19	6.52	4.7	4.7	1.24	3.4	3.2
06/24/19	6.49	4.3	4.3	1.23	3.1	3.3

Turner Basin						
Date	RW Blend*	RW Blend*	Turner 1 & 2	Turner 3 & 4	Turner 1 & 2 Turner 3 & 4	
mg/L==>	TOC	TN - 2 sample avg.	TOC (70% reduction)	TOC (85% reduction)	TN (87% reduction)	TN - 2 sample avg.
Limit ==>		10 mg/L (DDW)	16 mg/L	16 mg/L		5 mg/L
04/01/19	5.48	4.6	1.64	0.82	0.6	0.6
04/08/19	5.61	4.1	1.68	0.84	0.5	0.6
04/15/19	6.68	4.8	2.00	1.00	0.6	0.6
04/22/19	5.88	4.8	1.76	0.88	0.6	0.6
04/29/19	7.23	5.7	2.17	1.08	0.7	0.7
05/06/19	6.81	5.8	2.04	1.02	0.8	0.7
05/13/19	5.71	4.6	1.71	0.86	0.6	0.7
05/20/19	6.22	5.8	1.87	0.93	0.8	0.7
05/28/19	4.98	5.3	1.49	0.75	0.7	0.7
06/03/19	6.72	4.5	2.02	1.01	0.6	0.6
06/10/19	6.67	4.0	2.00	1.00	0.5	0.6
06/17/19	6.52	4.7	1.96	0.98	0.6	0.6
06/24/19	6.49	4.3	1.95	0.97	0.6	0.6

Ely Basin						
Date	RP-1 RW	RP-1 RW	RP-1 RW	Ely 3 East	Ely 3 East	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (76% reduction)	TN (52% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L
04/01/19	8.28	6.8	6.8	1.99	3.3	3.3
04/08/19	8.74	4.6	4.6	2.10	2.2	2.7
04/15/19	7.98	5.7	5.7	1.92	2.7	2.5
04/22/19	7.68	6.2	6.2	1.84	3.0	2.8
04/29/19	7.57	5.7	5.7	1.82	2.7	2.8
05/06/19	7.58	5.8	5.8	1.82	2.8	2.8
05/13/19	7.29	4.9	4.9	1.75	2.4	2.6
05/20/19	7.73	5.3	5.3	1.86	2.5	2.4
05/30/19	7.36	3.8	3.8	1.77	1.8	2.2
06/03/19	7.01	4.2	4.2	1.68	2.0	1.9
06/10/19	7.49	2.2	2.2	1.80	1.1	1.5
06/17/19	7.13	4.2	4.2	1.71	2.0	1.5
06/24/19	6.93	3.3	3.3	1.66	1.6	1.8

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the NRG Energy (formerly Reliant Energy) turnout point
Note: TOC & TN compliance is based on two consecutive sample results.

Table 2-5b
Alternative Monitoring Plans

RP3 Basin						
Date	RW Blend*	RW Blend*	RW Blend*	RP3	RP3	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (88% reduction)	TN (31% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L		5 mg/L (RWQCB)
04/01/19	5.48	3.3	4.6	0.66	2.3	3.1
04/08/19	5.61	4.1	4.1	0.67	2.8	2.5
04/15/19	6.68	4.8	4.8	0.80	3.3	3.1
04/22/19	5.88	4.8	4.8	0.71	3.3	3.3
04/29/19	7.23	5.7	5.7	0.87	3.9	3.6
05/06/19	6.81	5.8	5.8	0.82	4.0	4.0
05/13/19	5.71	4.6	4.6	0.69	3.2	3.6
05/20/19	6.22	5.8	5.8	0.75	4.0	3.6
05/28/19	4.98	5.3	5.3	0.60	3.7	3.8
06/03/19	6.72	4.5	4.5	0.81	3.1	3.4
06/10/19	6.67	4.0	4.0	0.80	2.8	2.9
06/17/19	6.52	4.7	4.7	0.78	3.2	3.2
06/24/19	6.49	4.3	4.3	0.78	3.0	3.0

8th Street Basin						
Date	RW Blend*	RW Blend*	RW Blend*	8th Street	8th Street	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (88% reduction)**	TN (75% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)
04/01/19	5.48	4.6	5.2	0.66	1.1	1.3
04/08/19	5.61	4.1	4.1	0.67	1.0	1.1
04/15/19	6.68	4.8	4.8	0.80	1.2	1.1
04/22/19	5.88	4.8	4.8	0.71	1.2	1.2
04/29/19	7.23	5.7	5.7	0.87	1.4	1.3
05/06/19	6.81	5.8	5.8	0.82	1.5	1.4
05/13/19	5.71	4.6	4.6	0.69	1.2	1.3
05/20/19	6.22	5.8	5.8	0.75	1.5	1.3
05/28/19	4.98	5.3	5.3	0.60	1.3	1.4
06/03/19	6.72	4.5	4.5	0.81	1.1	1.2
06/10/19	6.67	4.0	4.0	0.80	1.0	1.1
06/17/19	6.52	4.7	4.7	0.78	1.2	1.1
06/24/19	6.49	4.3	4.3	0.78	1.1	1.1

Victoria Basin						
Date	RW Blend*	RW Blend*	RW Blend*	Victoria	Victoria	
mg/L==>	TOC	TN	TN - 2 sample avg.	TOC (78% reduction)	TN (82% reduction)	TN - 2 sample avg.
Limit ==>			10 mg/L (DDW)	16 mg/L	5 mg/L	5 mg/L (RWQCB)
04/01/19	5.48	4.6	5.2	1.21	0.8	3.3
04/08/19	5.61	4.1	4.1	1.23	0.7	0.8
04/15/19	6.68	4.8	4.8	1.47	0.9	0.8
04/22/19	5.88	4.8	4.8	1.29	0.9	0.9
04/29/19	7.23	5.7	5.7	1.59	1.0	0.9
05/06/19	6.81	5.8	5.8	1.50	1.0	1.0
05/13/19	5.71	4.6	4.6	1.26	0.8	0.9
05/20/19	6.22	5.8	5.8	1.37	1.0	0.9
05/28/19	4.98	5.3	5.3	1.10	1.0	1.0
06/03/19	6.72	4.5	4.5	1.48	0.8	0.9
06/10/19	6.67	4.0	4.0	1.47	0.7	0.8
06/17/19	6.52	4.7	4.7	1.43	0.8	0.8
06/24/19	6.49	4.3	4.3	1.43	0.8	0.8

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

**Reduction factor amended to align with the DDW's evaluation and allowance for a 50% RWC at 8th Street Basin; using mound monitoring well data (2008-2016) to calculate percent reduction in place of the available lysimeter data used in the start-up period report.

Note: TOC & TN compliance is based on two consecutive sample results.

NA: Not Analyzed

Brooks Basin			
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00
	TOC (mg/L)	TN (mg/L)	EC (µmhos/cm)
04/04/19	6.63	2.6	166
05/21/19	7.23	4.7	677
06/19/19	5.98	4.7	638

Date	BRK-LYS-25	BRK-LYS-25	BRK-LYS-25
	TOC (mg/L)	TN* (mg/L)	TN - 2 sample avg. EC (µmhos/cm)
Limit==>			5 mg/L
04/04/19	2.61	<0.6	<0.6 371
05/21/19	2.78	0.6	0.6 400
06/05/19	2.92	<0.6	0.6 538
06/19/19	2.88	1.0	0.8 506

Date	BRK-1/1	BRK-1/1	BRK-1/1
	TOC* (mg/L)	TN (mg/L)	EC (µmhos/cm)
Limit==>	16 mg/L		
04/25/19	0.18	3.3	608
05/22/19	3.43	4.5	629
06/25/19	<0.10	5.5	611

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

Table 2-6
RWC, TOC Average, and TN Compliance Summary

Basin	SUP Start Date	SUP End Date	SUP Report Submittal	RWC Limit	Mos. in Operation (Jun 2019)	RWC _{Avg} (Jun 2019)	TOC _{Avg} Limit* (mg/L)	Apr 2019 TOC _{Avg} (mg/L)	May 2019 TOC _{Avg} (mg/L)	Jun 2019 TOC _{Avg} (mg/L)	2Q19 TN Limit Compliance	Recharged Water Monitoring Plan
8 th Street	Sep-07	Dec-10	05/23/11	50%	142	22%	2.3	0.7	0.7	0.8	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 75%
Banana	Jul-05	Jan-06	10/27/06	50%	168	36%	1.4	2.4	2.9	2.4	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 80% and TN reduction of 47%
Brooks	Aug-08	Dec-09	07/29/10	50%	131	16%	3.1	0.2	3.4	<0.1	Met	Alternative monitoring: <u>Monthly</u> lysimeter monitoring at 0- and 25-feet bgs & BRK-1/1 for EC, TOC, TN. 25-foot lysimeter compliance point for TN and BRK-1/1 for TOC. <u>Monthly</u> BRK-1/1 analyzed for chloride to verify presence of RW (monitoring ceased 3Q18 since RW presence has been verified).
Declez	Dec-15	Sep-16	TBD	TBD	43	7%	7.1	1.9	2.4	3.3	Met	Alternative monitoring: Initial year monitoring - <u>Every other week</u> lysimeter monitoring at 0- and 25-ft for EC, TOC, TN. Future years - <u>Weekly</u> RW Blend with TOC reduction of 62% and TN reduction of 91%
Ely	RW initiated Sep-99	NA	NA	50%	238	23%	2.2	1.9	1.8	1.7	Met	Alternative monitoring: <u>Weekly</u> RP-1 RW sample with TOC reduction of 76% and TN reduction of 52%
Hickory	Sep-05	Feb-06	02/15/07	50%	166	22%	2.3	3.5	4.0	3.3	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 81% and TN reduction of 27%
RP3	Jun-09	Jun-10	12/15/10	50%	121	16%	3.1	0.7	0.7	0.8	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 31%
Turner 1&2	Dec-06	May-07	07/03/08	24%	151	23%	2.2	1.9	1.8	2.0	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 70%; TN reduction of 87%
Turner 3&4	Dec-06	May-07	07/03/08	45%	151	25%	2.0	0.9	0.9	1.0	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 85% ; TN reduction of 87%
Victoria	Sep-10	Jul-11	02/08/12	50%	106	28%	1.8	1.4	1.3	1.5	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 78% and TN reduction of 82%

SUP - Start-Up Period

*TOC_{Avg} limit is 0.5 mg/L divided by the RWC_{Avg}. Compliance is determined by checking that monthly TOC_{Avg} does not exceed the TOC_{Avg} limit. If the TOC_{Avg} limit is exceeded, the monthly TOC_{Avg} will be shown in bold font.

Table 2-7a
Diluent Water Monitoring*: Local Runoff

Constituent	Declez Channel @ RP3 Basin 05/29/19	Max Level to Trigger Source Water Evaluation	Unit	Method
NO ₂ -N	<0.05	1	mg/L	EPA 300.0
NO ₃ -N	<0.1	10	mg/L	EPA 300.0
TDS	250	1000	mg/L	SM 2540C
Total Coliform	1600	-	mpn/100ml	SM 9221B
Oil & Grease	3.6	-	mg/L	EPA 1664A
Inorganic Chemicals				
Aluminum	98	1000	µg/L	EPA 200.7
Antimony	<1	6	µg/L	EPA 200.8
Arsenic	3	10	µg/L	EPA 200.8
Asbestos	<10.7	7	MFL	EPA 100.2
Barium	31	1000	µg/L	EPA 200.7
Beryllium	<1	4	µg/L	EPA 200.7
Cadmium	<0.5	5	µg/L	EPA 200.7
Chromium	1.0	50	µg/L	EPA 200.7
Chromium VI	1.1	10	µg/L	EPA 218.6
Cyanide	<20	150	µg/L	ASTM D7284
Fluoride	0.3	2	mg/L	SM 4500-F C
Mercury	<0.5	2	µg/L	EPA 245.2
Nickel	3	100	µg/L	EPA 200.7
Perchlorate	<4	6	µg/L	EPA 314
Selenium	<2	50	µg/L	EPA 200.8
Thallium	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)				
Benzene	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropane	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<0.5	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.005	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)				
Alachlor (Alanex)	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	0.8	4	µg/L	EPA 525.2
Dinoseb	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	20	µg/L	EPA 549.2
Endothall	<5	100	µg/L	EPA 548.1
Endrin	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	11	700	µg/L	EPA 547
Heptachlor	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	0.2	µg/L	EPA 505

Table 2-7a
Diluent Water Monitoring*: Local Runoff

Constituent	Declez Channel @ RP3 Basin 05/29/19	Max Level to Trigger Source Water Evaluation	Unit	Method
Methoxychlor	<0.05	30	µg/L	EPA 505
Molinate	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<4.45	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	50	µg/L	EPA 515.4
Disinfection Byproducts				
Total Trihalomethanes (TTHMs)	<2	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	22	60	µg/L	SM 6251B
Bromate	2	10	µg/L	EPA 300.1/317
Chlorite	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals				
Copper	12	1300	µg/L	EPA 200.7
Lead	<0.5	15	µg/L	EPA 200.8
Radionuclides				
Combined Radium-226 & Radium 228	0.20	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	4	15	pCi/L	EPA 900.0/SM7110C
Tritium	609	20,000	pCi/L	EPA 906.0
Strontium-90	<0.899	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	5	50	pCi/L	EPA 900.0
Uranium	1.7	20	pCi/L	EPA 200.8
Chemicals w/ State Notification Levels				
Boron	<0.1	1	mg/L	EPA 200.7
n-butylbenzene	<0.5	260	µg/L	EPA 524.2
sec-butylbenzene	<0.5	260	µg/L	EPA 524.2
tert-butylbenzene	<0.5	260	µg/L	EPA 524.2
Carbon disulfide	<0.5	160	µg/L	EPA 524.2
Chlorate	NA	800	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	140	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	140	µg/L	EPA 524.2
Diazinon	<0.1	1.2	µg/L	EPA 525.2
Dichlorodifluoromethane (Freon 12)	<0.5	1000	µg/L	EPA 524.2
1,4 - Dioxane	<1	1	µg/L	EPA 522
Formaldehyde	20	100	µg/L	EPA 556
HMX	<0.1	350	µg/L	LC-MS-MS
Isopropylbenzene	<0.5	770	µg/L	EPA 524.2
Methyl isobutyl ketone (MIBK)	<2	120	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	3.2	10	ng/l	EPA 521
N-nitrosodimethylamine (NDMA)	<2	10	ng/l	EPA 521
Propachlor	<0.05	90	µg/L	EPA 525.2
N-propylbenzene	<0.5	200	µg/L	EPA 524.2
PFOA	0.003	0.014	µg/L	EPA 537
PFOS	0.009	0.013	µg/L	EPA 537
RDX	<0.1	0.3	µg/L	LC-MS-MS
Tertiary butyl alcohol	<2	12	µg/L	EPA 524.2 MOD
1,2,4 -trimethylbenzene	<0.5	330	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	330	µg/L	EPA 524.2
2,4,6-Trinitrotoluene	<0.1	1	µg/L	LC-MS-MS
Vanadium	5	50	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals				
Aluminum	98	200	µg/L	EPA 200.7
Corrosivity	1.7	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS)	<0.1	0.5	mg/L	SM 5540C/EPA 425.1
Iron	162	300	µg/L	EPA 200.7
Manganese	4	50	µg/L	EPA 200.7
Odor--Threshold	8	3	TON	SM 2150B
Silver	<0.25	100	µg/L	EPA 200.7
Thiobencarb	<0.2	1	µg/L	EPA 525.2
Zinc	18	5000	µg/L	EPA 200.7

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

NA: Not analyzed

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

Table 2-7b
Diluent Water Monitoring: State Water Project - Silverwood Lake

Constituent	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Unit
Silica						8.7							mg/L
Calcium						18							mg/L
Magnesium						12							mg/L
Sodium						52							mg/L
Potassium						3.2							mg/L
Carbonate						0							mg/L
Bicarbonate						83							mg/L
Sulfate						33							mg/L
Chloride						72							mg/L
Nitrate						1.2							mg/L
Fluoride						<0.1							mg/L
Total Dissolved Solids						242							mg/L
Total Hardness as CaCO ₃						90							mg/L
Total Alkalinity as CaCO ₃						68							mg/L
Free Carbon Dioxide						1.0							mg/L
pH						8.14							unit
Specific Conductance						445							µmho/cm
Color						--							CU
Turbidity						0.7							NTU
Temperature						19							°C
Bromide						0.21							mg/L
Total Organic Carbon						3.69							mg/L

Table 2-8
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	600490	Fontana Water Company - F7a***	3330 upgradient	590-1000	18	Active	Municipal
	600660	California Speedway - Infield Well	2070 downgradient	NA	NA	Active	Industrial
	3601365	California Speedway 2	2780 downgradient	451-455, 491-603, & 664-780	20	Active	Industrial
	3600371	Reliant Energy - East Well	4070 downgradient	434-467, 500-513, 553-580, 593-652, & 825-847	20	Active	Industrial
	3602267	City Of Ontario - 20	14500 downgradient	NA	20	Active	Municipal
	601001	Inland Empire Utilities Agency - BH-1/1	340 downgradient	365-405	4	Active	Monitoring
	601002	Inland Empire Utilities Agency - BH-1/2	340 downgradient	435-475	4	Active	Monitoring
Turner Basins	3600010	City Of Ontario - 25	2530 crossgradient	370-903	20	Inactive	Municipal
	600453	City Of Ontario - 29	2810 downgradient	400-1095	18	Active	Municipal
	600585	City of Ontario - 38*	4600 crossgradient	500-1010	16	Active	Municipal
	600997	Inland Empire Utilities Agency - TRN-1/1	50 downgradient	340-360	4	Active	Monitoring
	600998	Inland Empire Utilities Agency - TRN-1/2	50 downgradient	380-400	4	Active	Monitoring
	600999	Inland Empire Utilities Agency - TRN-2/1	50 downgradient	350-370	4	Active	Monitoring
	601000	Inland Empire Utilities Agency - TRN-2/2	50 downgradient	392-412	4	Active	Monitoring
Declez Basin	300208	Jurupa Community Services District - 19	8900 downgradient	230-390	18	Active	Municipal
	300207	Jurupa Community Services District - 17	5240 downgradient	259-290, & 300-400	NA	Active	Municipal
	300200	Jurupa Community Services District - 13	5730 downgradient	220-446	16-34	Active	Municipal
	300484	Inland Empire Utilities Agency - DCZ-1	50 downgradient	155-175	4	Active	Monitoring
	--	Inland Empire Utilities Agency - DCZ-2	4,100 downgradient	240-270	4	Active	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
Brooks Basins	601039	Inland Empire Utilities Agency - 8TH-2/2	2460 downgradient	576-616	4	Active	Monitoring
	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
	1904001	City of Pomona P-34	2550 downgradient	363-367, 380-400, 419-427	20	Active	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
San Seavine Basins	601049	Inland Empire Utilities Agency - BRK-2/2	1305 downgradient	560-600	4	Active	Monitoring
	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	~39-116 downgradient	640-680	4	Active	Monitoring
	--	Inland Empire Utilities Agency - SSV-2	200 downgradient	370-395	4	Active	Monitoring
	600576	Unitex IRR	~ 1338 downgradient	NA	NA	NA	Private Irrigation
	600462	Unitex 91090	~1601 downgradient	NA	NA	Active	Private Domestic
Victoria Basin	600369	Unitex CalDOT	~ 2850 downgradient	400-684	NA	NA	Irrigation
	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	--	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~ 2000 downgradient	570-610	4	Active	Monitoring
	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.
- *** = Fontana Water Company Well 7A replaced Fontana Water Company Well 37A (1Q18)

Table 2-9a
Groundwater Monitoring Well Results (Quarterly)

	Sample Location	Date	TOC (mg/L)	Total Calcium (MPW/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)	Aq (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. - F7a	05/08/19	<0.10	<1.1	7.5	369	<20	<3	3.6	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.8	<20	268	11	165	17	13	5.3	<0.05	5.3	4.4
	California Speedway - Infield Well	05/14/19	<0.10	<1.1	7.7	617	<20	<3	<2	0.4	<0.1	72	<2	<0.5	<1	<0.5	<0.2	0.2	<20	386	43	260	24	59	7.6	<0.05	7.6	7.4
	California Speedway 2	05/14/19	<0.10	<1.1	7.7	483	<20	<3	<2	0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	310	24	202	21	32	6.6	<0.05	6.6	5.1
	BH-1/2*	05/09/19	<0.10	<1.1	7.7	556	<20	5	<2	0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.9	<20	416	76	235	26	40	2.6	<0.05	2.6	5.4
Turner	Ontario Well No. 29	06/27/19	<0.10	<1.1	7.6	353	<20	<3	<2	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	208	7	128	22	12	1.6	<0.05	1.6	4.3
	Ontario Well No. 38	04/11/19	<0.10	<1.1	7.7	345	<20	<3	<2	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	<20	270	7	125	21	10	1.7	<0.05	1.7	6.5
	T-1/2*	05/06/19	<0.10	<1.1	7.3	679	<20	5	<2	-0.1	<0.1	26	<2	<0.5	<1	<0.5	<0.2	2.7	<20	418	83	226	54	29	<0.6	<0.05	<0.1	3.0
	T-2/1*	05/02/19	<0.10	<1.1	7.5	691	<20	5	2.0	0.0	<0.1	<20	5	<0.5	<1	<0.5	<0.2	9.5	<20	422	114	211	57	31	0.9	<0.05	0.9	3.4
	T-2/2*	05/28/19	0.73	<1.1	7.4	673	<20	5	2.1	-0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	1.1	<20	404	111	209	52	34	1.1	<0.05	1.1	2.0
RP3	Fontana Water Co. - F23a	05/08/19	<0.10	<1.1	7.6	428	<20	<3	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	1.1	<20	322	24	181	20	24	8.8	<0.05	8.8	6.1
	Southridge JHS*	05/14/19	<0.10	<1.1	7.0	884	<20	10	3.0	-0.1	<0.1	42	3	<0.5	<1	<0.5	<0.2	2.1	<20	600	92	353	58	74	14.8	<0.05	14.8	5.3
	Alcoa MW1*	06/04/19	<0.10	<1.1	7.5	654	<20	5	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	1.4	<20	504	87	267	29	25	13.1	<0.05	13.1	4.1
	Alcoa MW3*	06/10/19	0.32	<1.1	7.1	1040	<20	<3	<2	0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	<20	814	195	455	51	60	20.4	<0.05	20.4	2.0
	RP3-1/1*	06/05/19	0.87	108	7.0	650	<20	20	3.2	-0.4	<0.1	<20	12	<0.5	1	<0.5	<0.2	11.0	<20	440	107	181	78	40	2.3	<0.05	2.3	4.9
8th Street	Ontario Well No. 35	04/11/19	<0.10	7	7.8	269	<20	5	<2	0.3	<0.1	525	4	<0.5	<1	<0.5	<0.2	2.1	<20	210	10	165	19	23	4.9	<0.05	4.9	5.1
	8TH-1/1*	04/30/19	0.40	<1.1	7.3	433	<20	5	<2	-0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.9	<20	296	62	182	10	24	1.8	<0.05	1.8	5.5
	8TH-1/2*	04/30/19	<0.10	<1.1	7.3	451	<20	5	<2	-0.4	<0.1	<20	17	<0.5	<1	<0.5	<0.2	3.4	<20	270	56	175	16	19	1.9	<0.05	1.9	5.3
	8TH-2/1*	05/01/19	<0.10	<1.1	7.3	522	<20	<3	<2	-0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	<20	344	18	227	17	29	16.2	<0.05	16.2	6.8
	8TH-2/2*	05/01/19	<0.10	<1.1	7.2	472	<20	5	<2	-0.5	<0.1	<20	8	<0.5	<1	<0.5	<0.2	2.9	<20	318	56	182	16	30	4.0	<0.05	4.0	4.8
Brooks	Pomona Well No. 34	05/07/19	<0.10	<1.1	7.6	550	<20	<3	<2	0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	2.5	<20	374	39	251	13	40	9.7	<0.05	9.7	6.8
	BRK-1/1*	04/25/19	<0.10	<1.1	7.9	608	<20	10	<2	0.3	<0.1	<20	5	<0.5	<1	<0.5	<0.2	13.0	<20	338	68	202	40	40	3.3	0.20	3.1	5.2
	BRK-1/2*	04/29/19	<0.10	<1.1	7.5	640	<20	<3	<2	0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	3.3	<20	414	25	287	15	51	22.6	0.27	22.3	3.6
	BRK-2/1*	05/30/19	0.47	2420	7.5	448	<20	10	<2	0.0	<0.1	292	14	<0.5	2	<0.5	<0.2	17.3	<20	288	42	210	12	30	4.0	<0.05	4.0	2.4
	BRK-2/2*	05/30/19	2.11	2420	7.7	317	<20	5	<2	0.0	<0.1	<20	121	<0.5	2	<0.5	<0.2	0.6	<20	220	10	99	31	22	4.2	0.24	4.0	2.2
Ely	Ely Basin MW2 Walnut St.*	06/06/19	<0.10	9	7.3	816	<20	<3	<2	0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	<20	572	65	422	31	63	16.7	<0.05	16.7	4.4
	Riverside Well (43840-CWW)*	05/06/19	<0.10	<1.1	7.5	554	<20	<3	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	29	344	28	235	21	30	9.3	<0.05	9.3	6.3
	Bishop of SB Corp. - DOM	05/06/19	<0.10	<1.1	7.7	737	<20	<3	<2	0.5	<0.1	42	<2	<0.5	<1	<0.5	<0.2	1.7	32	462	34	336	23	56	17.5	<0.05	17.5	6.0
Victoria & San Sevaime	SS-1/1*	05/07/19	<0.10	<1.1	7.1	293	<20	<3	<2	-0.9	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	2.0	<20	209	27	113	17	19	2.8	<0.05	2.8	5.0
	SSV-2*	06/05/19	0.42	<1.1	7.2	306	<20	15	<2	-0.6	0.10	<20	3	<0.5	1	<0.5	<0.2	23.0	<20	220	37	118	29	17	0.6	<0.05	0.6	5.5
	VCT-1/1*	05/13/19	<0.10	<1.1	7.1	586	<20	10	<2	-0.1	<0.1	105	<2	<0.5	<1	<0.5	<0.2	4.1	<20	410	75	217	21	37	1.4	<0.05	1.4	5.9
	VCT-2/2	06/27/19	<0.10	6	7.4	326	<20	<3	<2	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.8	<20	206	10	119	17	10	3.5	<0.05	3.5	5.0
	CVWD Well No. 39	04/30/19	<0.10	<1.1	7.5	298	<20	<3	<2	-0.3	<0.1	131	<2	<0.5	<1	<0.5	<0.2	3.2	<20	204	6	107	18	10	3.0	<0.05	3.0	5.4
	CVWD Well No. 43	04/30/19	<0.10	<1.1	7.4	356	<20	<3	<2	-0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.3	<20	238	8	135	20	15	2.5	<0.05	2.5	5.4
	Unitex 91090	05/06/19	<0.10	<1.1	7.4	398	<20	<3	<2	-0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.8	<20	260	22	168	15	29	2.1	<0.05	2.1	6.1
Declez	JCSD Well No. 13	05/09/19	<0.10	<1.1	7.6	621	<20	<3	<2	0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.7	<20	446	96	245	30	24	5.2	<0.05	5.2	8.3
	JCSD Well No. 17	05/09/19	<0.10	<1.1	7.7	524	<20	<3	<2	0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.4	<20	376	48	206	29	40	10.9	<0.05	10.9	4.8
	JCSD Well No. 19	05/09/19	<0.10	<1.1	7.7	351	<20	5	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.6	<20	244	13	132	26	14	4.2	<0.05	4.2	8.4
	DCZ-1/1*	05/15/19	0.62	<1.1	7.6	473	<20	5	<2	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	2.6	<20	284	44	162	28	31	2.7	<0.05	2.7	1.8
	DCZ-2*	05/14/19	10.87	<1.1	7.6	497	<20	<3	<2	0.1	<0.1	<20	<2	<0.5	2	<0.5	<0.2	0.1	283	302	38	165	36	31	8.4	<0.05	8.4	6.7
	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.

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

Date	Diluent Water																				Recycled Water									
	Imported Water										Local Runoff / Storm Flow																			
	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria
Jul-18	60	0	0	0	0	0	0	0	0	0	6	2	0	11	0	3	41	2	16	0	97	153	47	278	218	19	162	0	97	105
Aug-18	0	0	0	0	0	0	0	0	0	0	6	0	0	9	0	2	9	0	9	0	153	17	19	287	264	127	165	0	165	199
Sep-18	0	0	0	0	0	0	0	0	0	0	6	0	0	11	0	3	7	0	16	0	260	95	0	269	350	16	207	0	113	166
3Q18 Total	60	0	0	0	0	0	0	0	0	0	18	2	0	31	0	8	57	2	41	0	511	265	66	834	833	162	534	0	375	470
Oct-18	0	0	0	0	0	0	0	0	0	0	68	12	3	61	35	4	12	7	43	44	196	0	0	174	162	0	165	0	91	109
Nov-18	0	0	0	0	0	0	0	0	0	0	115	23	22	170	202	37	4	31	90	33	288	31	186	58	260	11	191	0	60	85
Dec-18	0	0	0	0	0	0	0	0	0	0	164	12	43	61	222	60	46	45	145	46	254	0	261	105	26	8	171	0	21	100
4Q18 Total	0	0	0	0	0	0	0	0	0	0	347	47	68	292	460	101	62	84	278	122	738	31	447	338	449	18	527	0	171	293
Jan-19	0	0	0	0	0	0	0	0	0	0	280	27	260	113	295	44	97	318	333	252	249	14	67	47	111	8	70	0	0	92
Feb-19	0	0	0	0	0	0	0	0	0	0	319	42	283	131	287	91	125	428	379	372	0	0	0	0	0	0	0	0	0	9
Mar-19	0	0	0	0	0	0	0	0	0	0	275	14	149	75	68	28	37	313	165	223	281	0	78	75	0	0	0	0	0	78
1Q19 Total	0	0	0	0	0	0	0	0	0	0	874	83	692	318	651	162	259	1059	877	847	530	14	145	122	111	8	70	0	0	179
Apr-19	0	0	0	0	0	0	0	0	0	0	885	83	695	340	725	162	261	1060	894	848	910	14	410	227	111	8	87	0	0	490
May-19	0	0	0	0	0	0	0	0	0	0	135	0	61	63	70	0	21	25	145	46	348	1	198	101	46	0	0	0	0	262
Jun-19	0	0	0	0	0	0	0	894	0	0	141	0	61	81	71	0	21	25	151	46	800	1	501	283	46	0	0	0	0	595
2Q19 Total	0	0	0	0	0	0	0	894	0	0	1161	83	817	484	866	162	302	1110	1191	940	2058	15	1109	611	203	8	87	0	0	1346

Table 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<1	<1	<1	<1	µg/L	EPA 200.8
Beryllium	<1	<1	<1	<1	µg/L	EPA 200.8
Cadmium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Chromium	1	2	2	2	µg/L	EPA 200.8
Copper	<0.5	0.6	0.5	0.5	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	29	251	4	105	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	<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	3.1	<0.5	1.3	µg/L	EPA 524.2/EPA 624
Bromoform	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromomethane	<0.5	<0.5	<0.5	<0.5	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	4.0	19.5	<0.5	6.8	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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2	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
Benazidine	<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	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2	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 525.2/EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	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	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505/EPA 608
PCB-1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Toxaphene	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<20	<20	<20	<20	µg/L	SM4500CN-F
2,3,7,8-TCDD	<5	<5	<5	<4.05	µg/L	EPA 1613B

Table 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<1	<1	<1	2	µg/L	EPA 200.8
Beryllium	<1	<1	<1	<1	µg/L	EPA 200.8
Cadmium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Chromium	1	5	9	1	µg/L	EPA 200.8
Copper	1.3	0.6	1.3	1.6	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	71	5	729	17	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	2	5	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	0.8	<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	<0.5	<0.5	<0.5	<0.5	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	7.8	<0.5	1.9	<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	2.0	1.0	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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2	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
Benazidine	<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	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2	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 525.2/EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	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	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505/EPA 608
PCB-1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Toxaphene	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Cyanide	<20	<20	<20	<20	µg/L	SM4500CN-F
2,3,7,8-TCDD	<5	<5	<5	<5	µg/L	EPA 1613B

Table 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2	Ely MW2	DCZ-1/1	DCZ-2	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<1	<1	<1	2	µg/L	EPA 200.8
Beryllium	<1	<1	<1	<1	µg/L	EPA 200.8
Cadmium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Chromium	2	4	1	3	µg/L	EPA 200.8
Copper	0.9	1.1	0.9	1.3	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	1.4	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	40	6	94	2	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	<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	1.3	<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	<0.5	<0.5	<0.5	<0.5	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	18.2	7.5	0.9	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2	Ely MW2	DCZ-1/1	DCZ-2	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	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	BH-1/2	Ely MW2	DCZ-1/1	DCZ-2	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 525.2/EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	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	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505/EPA 608
PCB-1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Toxaphene	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<20	<20	<20	<20	µg/L	SM4500CN-F
2,3,7,8-TCDD	<5	<5	<5	<5	µg/L	EPA 1613B

Table 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1	Southridge JHS	T-1/2	T-2/2	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<1	<1	<1	<1	µg/L	EPA 200.8
Beryllium	<1	<1	<1	<1	µg/L	EPA 200.8
Cadmium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Chromium	2	3	<1	<1	µg/L	EPA 200.8
Copper	3.2	3.0	1.8	2.1	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	200	7	28	11	µg/L	EPA 200.8
Selenium	<2	3	<2	<2	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	µg/L	EPA 200.8
Zinc	3	8	3	<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	<0.5	<0.5	<0.5	<0.5	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	8.2	<0.5	0.6	7.2	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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1	Southridge JHS	T-1/2	T-2/2	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	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	RP3-1/1	Southridge JHS	T-1/2	T-2/2	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 525.2/EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	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	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505/EPA 608
PCB-1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Toxaphene	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<20	<20	<20	<20	µg/L	SM4500CN-F
2,3,7,8-TCDD	<5	<4.07	<5	<5	µg/L	EPA 1613B

Table 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1	SSV-2	VCT-1/1	VCT-2/2	Unit	Method
EPA Priority Pollutants - Metals						
Antimony	<1	<1	<1	<1	µg/L	EPA 200.8
Arsenic	<1	<1	<1	<1	µg/L	EPA 200.8
Beryllium	<1	<1	<1	<1	µg/L	EPA 200.8
Cadmium	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Chromium	1	1	<1	4	µg/L	EPA 200.8
Copper	0.7	1.0	1.0	1.1	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	2	10	7	3	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	1	6	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	1.0	<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	<0.5	<0.5	<0.5	<0.5	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	0.8	<0.5	8.7	<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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1	SSV-2	VCT-1/1	VCT-2/2	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	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 2-9b
Groundwater Monitoring Well Results - Priority Pollutants (Quarterly)

Constituent	SS-1/1	SSV-2	VCT-1/1	VCT-2/2	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 525.2/EPA 608
4,4-DDE	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
4,4-DDT	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Aldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Alpha-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Beta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Delta-BHC	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Dieldrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endosulfan I	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan II	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endosulfan Sulfate	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 525.2/EPA 608
Endrin	<0.01	<0.01	<0.01	<0.01	µg/L	EPA 505/EPA 608
Endrin aldehyde	<0.1	<0.1	<0.1	<0.1	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	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1016	<0.08	<0.08	<0.08	<0.08	µg/L	EPA 505/EPA 608
PCB-1221	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1232	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1242	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1248	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1254	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
PCB-1260	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
Toxaphene	<0.1	<0.1	<0.1	<0.1	µg/L	EPA 505/EPA 608
EPA Priority Pollutants - Miscellaneous						
Cyanide	<20	<20	<20	<20	µg/L	SM4500CN-F
2,3,7,8-TCDD	<5	<5	<5	<5	µg/L	EPA 1613B

NA - not analyzed

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<20	<20	<20	<20	150	µg/L	EPA OIA-1677
Perchlorate	<4	<4	5	<4	6	µg/L	EPA 314
Mercury	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Fluoride	0.4	0.3	0.3	0.3	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<1	<1	<1	<1	10	µg/L	EPA 200.8
Barium, Dissolved	35	35	48	39	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<1	<1	<1	<1	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 200.8
Chromium, Dissolved	0.5	2	2	2	50	µg/L	EPA 200.8
Copper, Dissolved	<0.5	0.6	0.5	0.5	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	29	251	4	105	100	µg/L	EPA 200.8
Manganese, Dissolved	2	17	<1	8	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	1	<1	<1	<1	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	0.005	µg/L	EPA 524.2

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	8TH-1/1	8TH-1/2	8TH-2/1	8TH-2/2	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	0.06	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	0.07	<0.05	0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<4.05	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	<0.5	0.6	0.5	0.5	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.469	<0.554	<0.409	<0.551	5,000	pCi/l	EPA 903.0
Gross Alpha Particle Activity	4	<3	4.8	<3	15	pCi/l	EPA 900.0
Tritium	<368	<353	<359	<356	20,000	pCi/l	EPA 906
Strontium-90	<1.28	<1.2	<1.09	<0.739	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	<3	<3	<3	50	pCi/l	EPA 900.0
Uranium	<0.7	0.7	1.5	<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 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<20	<20	<20	<20	150	µg/L	EPA OIA-1677
Perchlorate	<4	17	<4	<4	6	µg/L	EPA 314
Mercury	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Fluoride	0.3	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<1	<1	<1	2	10	µg/L	EPA 200.8
Barium, Dissolved	33	69	39	66	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<1	<1	<1	<1	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 200.8
Chromium, Dissolved	1	5	9	1	50	µg/L	EPA 200.8
Copper, Dissolved	1.3	0.6	1.3	1.6	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	292	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	71	5	729	17	100	µg/L	EPA 200.8
Manganese, Dissolved	5	<1	14	121	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	<1	2	2	5	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	2.0	1.0	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	0.005	µg/L	EPA 524.2

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	BRK-1/1	BRK-1/2	BRK-2/1	BRK-2/2	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	0.04	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	0.061	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	1.3	0.6	1.3	1.6	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.325	<0.907	<0.15	<0.15	5,000	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	6	5	7	15	pCi/l	EPA 900.0
Tritium	<360	<362	<332	<337	20,000	pCi/l	EPA 906
Strontium-90	<2.97	<1.07	<0.616	<0.476	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	<3	<3	<3	50	pCi/l	EPA 900.0
Uranium	1.4	1.5	1.2	1.6	20	pCi/l	EPA 200.8

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

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	BH-1/2	Ely MW2	DCZ-1/1	DCZ-2	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<20	<20	<20	<20	150	µg/L	EPA OIA-1677
Perchlorate	<4	<4	<4	<4	6	µg/L	EPA 314
Mercury	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Fluoride	<0.1	0.2	0.3	<0.1	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<1	<1	<1	2	10	µg/L	EPA 200.8
Barium, Dissolved	102	107	61	42	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<1	<1	<1	<1	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.5	0.35	<0.5	<0.5	5	µg/L	EPA 200.8
Chromium, Dissolved	2	3.7	1	3	50	µg/L	EPA 200.8
Copper, Dissolved	0.9	1.1	0.9	1.3	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	<15	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	40	6	94	2	100	µg/L	EPA 200.8
Manganese, Dissolved	2	1	<1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	<1	<1	<1	283	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	0.005	µg/L	EPA 524.2

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	BH-1/2	Ely MW2	DCZ-1/1	DCZ-2	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	0.06	0.08	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	0.9	1.1	0.9	1.3	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	1.4	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.23	<0.24	<0.27	<0.271	5,000	pCi/l	EPA 903.0
Gross Alpha Particle Activity	6	9	8	4	15	pCi/l	EPA 900.0
Tritium	<385	<341	<313	<372	20,000	pCi/l	EPA 906
Strontium-90	<1.13	<0.768	<1.18	<1.13	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	4	5	3	50	pCi/l	EPA 900.0
Uranium	1.0	6.2	1.9	1.6	20	pCi/l	EPA 200.8

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

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	RP3-1/1	Southridge JHS	T-1/2	T-2/1	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<0.2	<0.2	7	MFL	EPA 100.2
Cyanide	<20	<20	<20	<20	150	µg/L	EPA OIA-1677
Perchlorate	<4	5	<4	<4	6	µg/L	EPA 314
Mercury	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Fluoride	0.1	0.2	0.2	0.2	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	<25	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<1	<1	<1	<1	10	µg/L	EPA 200.8
Barium, Dissolved	95	153	93	89	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<1	<1	<1	<1	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 200.8
Chromium, Dissolved	2.3	3.2	<0.5	<0.5	50	µg/L	EPA 200.8
Copper, Dissolved	3.2	3.0	1.8	2.1	1300	µg/L	EPA 200.8
Iron, Dissolved	17	42	26	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	200	7	28	11	100	µg/L	EPA 200.8
Manganese, Dissolved	12	3	<1	1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	3	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	<0.25	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	3	8	3	<1	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	0.005	µg/L	EPA 524.2

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	RP3-1/1	Southridge JHS	T-1/2	T-2/1	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<4.07	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	3.2	3.0	1.8	2.1	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.39	<0.55	<0.456	<0.422	5,000	pCi/l	EPA 903.0
Gross Alpha Particle Activity	4	16	<3	5	15	pCi/l	EPA 900.0
Tritium	<328	<384	<317	<294	20,000	pCi/l	EPA 906
Strontium-90	<0.911	<1.13	<1.16	<0.434	8	pCi/l	EPA 905
Gross Beta Particle Activity	3	7	<3	<3	50	pCi/l	EPA 900.0
Uranium	1.1	5.8	1.2	<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 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	SS-1/1	SSV-2	VCT-1/1	VCT-2/2	MCL	Unit	Method
Inorganic Chemicals							
Asbestos	<0.2	<0.2	<1.1	<0.21	7	MFL	EPA 100.2
Cyanide	<20	<20	<20	<20	150	µg/L	EPA OIA-1677
Perchlorate	<4	<4	<4	<4	6	µg/L	EPA 314
Mercury	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Fluoride	<0.1	0.1	<0.1	0.1	2	mg/L	SM 4500-F C
Aluminum, Dissolved	<25	<25	<25	38	1000	µg/L	EPA 200.8
Antimony, Dissolved	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic, Dissolved	<1	<1	<1	<1	10	µg/L	EPA 200.8
Barium, Dissolved	46	34	112	51	1000	µg/L	EPA 200.8
Beryllium, Dissolved	<1	<1	<1	<1	4	µg/L	EPA 200.8
Cadmium, Dissolved	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 200.8
Chromium, Dissolved	0.9	0.6	<0.5	3.5	50	µg/L	EPA 200.8
Copper, Dissolved	0.7	1.0	1.0	1.1	1300	µg/L	EPA 200.8
Iron, Dissolved	<15	<15	105	<15	300 (sec.)	µg/L	EPA 200.8
Nickel, Dissolved	2	10	7	3.33	100	µg/L	EPA 200.8
Manganese, Dissolved	<1	3	1	<1	50 (sec.)	µg/L	EPA 200.8
Selenium, Dissolved	<2	<2	<2	<2	50	µg/L	EPA 200.8
Silver, Dissolved	<0.25	<0.25	<0.25	0.38	100 (sec.)	µg/L	EPA 200.8
Thallium, Dissolved	<1	<1	<1	<1	2	µg/L	EPA 200.8
Zinc, Dissolved	<1	1	1	6	5000 (sec.)	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)							
Benzene	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<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	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<1	<1	<1	<1	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	0.005	µg/L	EPA 524.2

Table 2-9c
Groundwater Monitoring Well Results (Annual)

Constituent	SS-1/1	SSV-2	VCT-1/1	VCT-2/2	MCL	Unit	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)							
Alachlor (Alanex)	<0.05	<0.05	<0.05	<0.05	2	µg/L	EPA 525.2
Atrazine	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	0.07	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Notification Level Chemicals							
Copper, Dissolved	0.7	1.0	1.0	1.1	1300	µg/L	EPA 200.8
Lead, Dissolved	<0.5	<0.5	<0.5	<0.5	15	µg/L	EPA 200.8
Radionuclides							
Combined Radium-226 and Radium 228	<0.317	<0.21	<0.237	<0.31	5,000	pCi/l	EPA 903.0
Gross Alpha Particle Activity	<3	<3	8.2	<3	15	pCi/l	EPA 900.0
Tritium	<319	<341	<361	<357	20,000	pCi/l	EPA 906
Strontium-90	<3.54	<0.872	<1.09	<0.36	8	pCi/l	EPA 905
Gross Beta Particle Activity	<3	<3	<3	<3	50	pCi/l	EPA 900.0
Uranium	<0.7	<0.7	<0.7	<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 6-1
MVWD ASR Project - TIN/TDS Mass Balance

ASR Well No. 4										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
3Q18	Jul-18	0.0	0.6	230	112	13.0	380	(1,591)	(27,824)	(763,044)
	Aug-18	0.0	0.6	230	109	13.0	380	(1,700)	(29,580)	(814,362)
	Sep-18	0.0	0.6	230	104	13.0	380	(1,804)	(31,249)	(863,148)
4Q18	Oct-18	0.0	0.6	230	58	13.0	380	(1,862)	(32,177)	(890,277)
	Nov-18	0.0	0.6	230	0	13.0	380	(1,862)	(32,178)	(890,314)
	Dec-18	0.0	0.6	230	4	13.0	380	(1,867)	(32,247)	(892,344)
1Q19	Jan-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,247)	(892,344)
	Feb-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,247)	(892,344)
	Mar-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,247)	(892,344)
2Q19	Apr-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,247)	(892,344)
	May-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,247)	(892,344)
	Jun-19	42.6	0.5	170	0	13.0	380	(1,824)	(32,222)	(883,410)

ASR Well No. 30										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
3Q18	Jul-18	0.0	0.6	230	0	12.0	320	533	(30,271)	(169,089)
	Aug-18	0.0	0.6	230	48	12.0	320	485	(30,982)	(188,042)
	Sep-18	0.0	0.6	230	0	12.0	320	484	(30,985)	(188,113)
4Q18	Oct-18	0.0	0.6	230	0	12.0	320	484	(30,985)	(188,113)
	Nov-18	0.0	0.6	230	0	12.0	320	484	(30,985)	(188,113)
	Dec-18	0.0	0.6	230	71	12.0	320	413	(32,035)	(216,129)
1Q19	Jan-19	0.0	0.6	230	0	12.0	320	413	(32,035)	(216,129)
	Feb-19	0.0	0.6	230	0	12.0	320	413	(32,035)	(216,129)
	Mar-19	0.0	0.6	230	0	12.0	320	413	(32,035)	(216,129)
2Q19	Apr-19	0.0	0.6	230	0	12.0	320	413	(32,035)	(216,129)
	May-19	0.0	0.6	230	0	12.0	320	413	(32,035)	(216,129)
	Jun-19	132.4	0.5	170	0	12.0	320	546	(31,957)	(188,362)

ASR Well No. 32										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
3Q18	Jul-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,701)
	Aug-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,701)
	Sep-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,698)
4Q18	Oct-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,698)
	Nov-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,698)
	Dec-18	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,695)
1Q19	Jan-19	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,695)
	Feb-19	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,695)
	Mar-19	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,692)
2Q19	Apr-19	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,692)
	May-19	0.0	0.6	230	0	6.5	320	(3,584)	(45,366)	(844,692)
	Jun-19	121.1	0.5	170	0	6.5	320	(3,463)	(45,294)	(819,295)

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

Cells shaded in grey reflect most recent lab values.

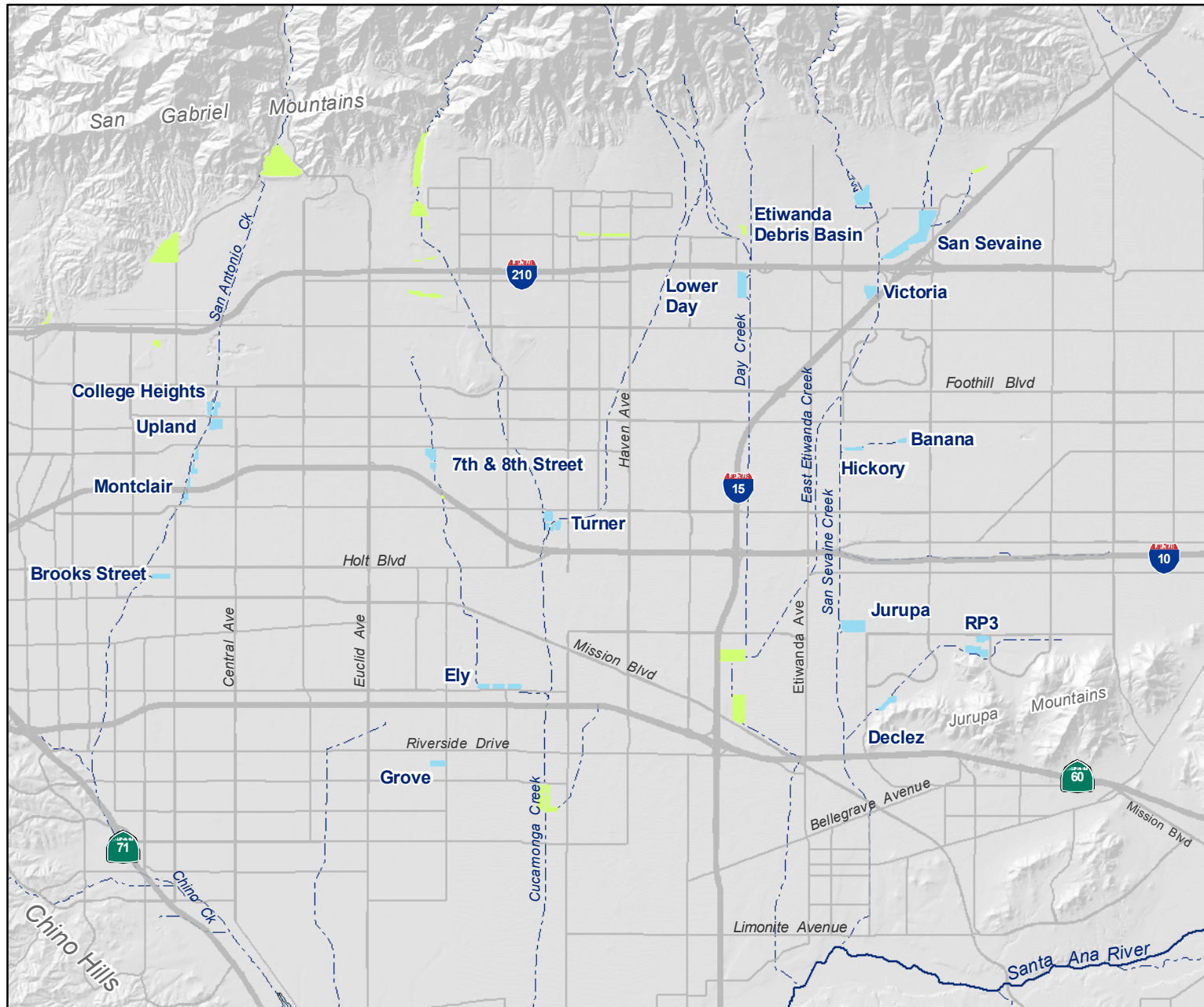
Table 6-1
MVWD ASR Project - TIN/TDS Mass Balance

ASR Well No. 33										
	Date	Injection			Recovery			Mass Balance		
		Volume (AF)	TIN (mg/L)	TDS (mg/L)	Volume (AF)	TIN (mg/L)	TDS (mg/L)	Storage (AF)	TIN (kg)	TDS (kg)
3Q18	Jul-18	0.0	0.6	230	0	18.0	320	(2,895)	(79,505)	(1,337,260)
	Aug-18	0.0	0.6	230	0	18.0	320	(2,895)	(79,505)	(1,337,260)
	Sep-18	0.0	0.6	230	0	18.0	320	(2,895)	(79,505)	(1,337,257)
4Q18	Oct-18	0.0	0.6	230	0	18.0	320	(2,895)	(79,505)	(1,337,257)
	Nov-18	0.0	0.6	230	5	18.0	320	(2,900)	(79,621)	(1,339,322)
	Dec-18	0.0	0.6	230	1	18.0	320	(2,901)	(79,640)	(1,339,658)
1Q19	Jan-19	0.0	0.6	230	0	18.0	320	(2,901)	(79,640)	(1,339,658)
	Feb-19	0.0	0.6	230	0	18.0	320	(2,901)	(79,640)	(1,339,658)
	Mar-19	0.0	0.6	230	0	18.0	320	(2,901)	(79,640)	(1,339,656)
2Q19	Apr-19	0.0	0.6	230	0	18.0	320	(2,901)	(79,640)	(1,339,656)
	May-19	0.0	0.6	230	0	18.0	320	(2,901)	(79,640)	(1,339,656)
	Jun-19	93.3	0.5	170	0	18.0	320	(2,808)	(79,585)	(1,320,089)

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)
3Q18	Jul-18		(7,537)	(182,966)	(3,114,093)
	Aug-18		(7,695)	(185,432)	(3,184,364)
	Sep-18		(7,799)	(187,104)	(3,233,216)
4Q18	Oct-18		(7,857)	(188,032)	(3,260,344)
	Nov-18		(7,862)	(188,149)	(3,262,446)
	Dec-18		(7,938)	(189,288)	(3,292,827)
1Q19	Jan-19		(7,938)	(189,288)	(3,292,827)
	Feb-19		(7,938)	(189,288)	(3,292,827)
	Mar-19		(7,938)	(189,288)	(3,292,821)
2Q19	Apr-19		(7,938)	(189,288)	(3,292,821)
	May-19		(7,938)	(189,288)	(3,292,821)
	Jun-19		(7,549)	(189,058)	(3,211,156)



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

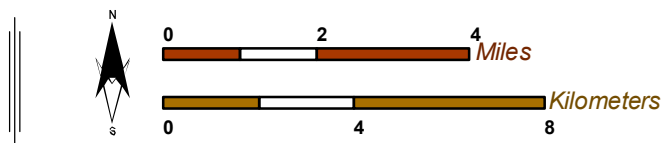
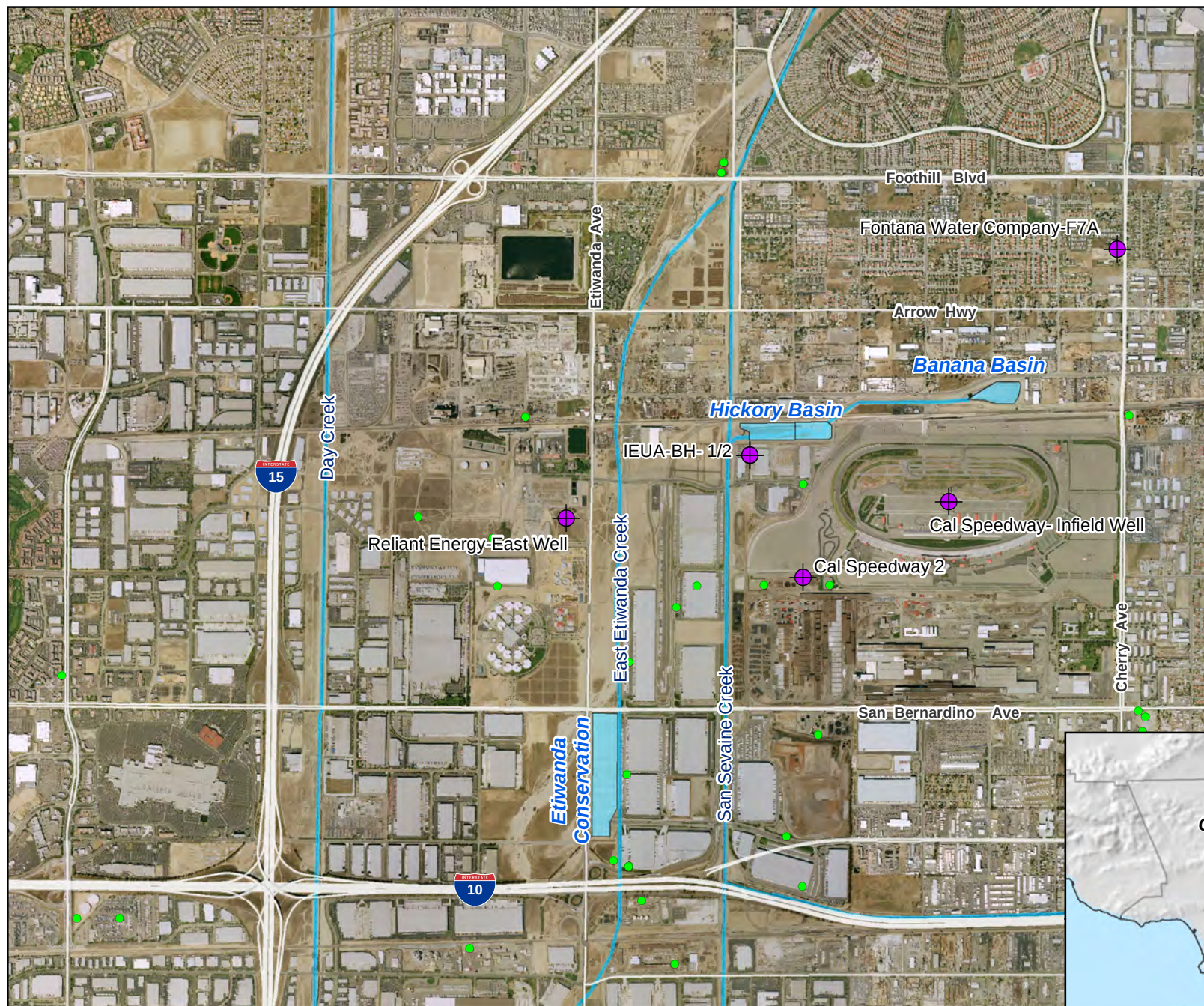
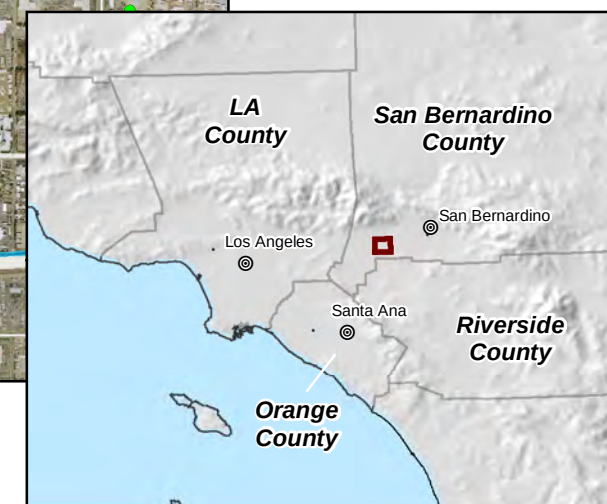


Figure 1-1



Main Map Features

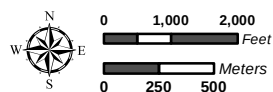
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

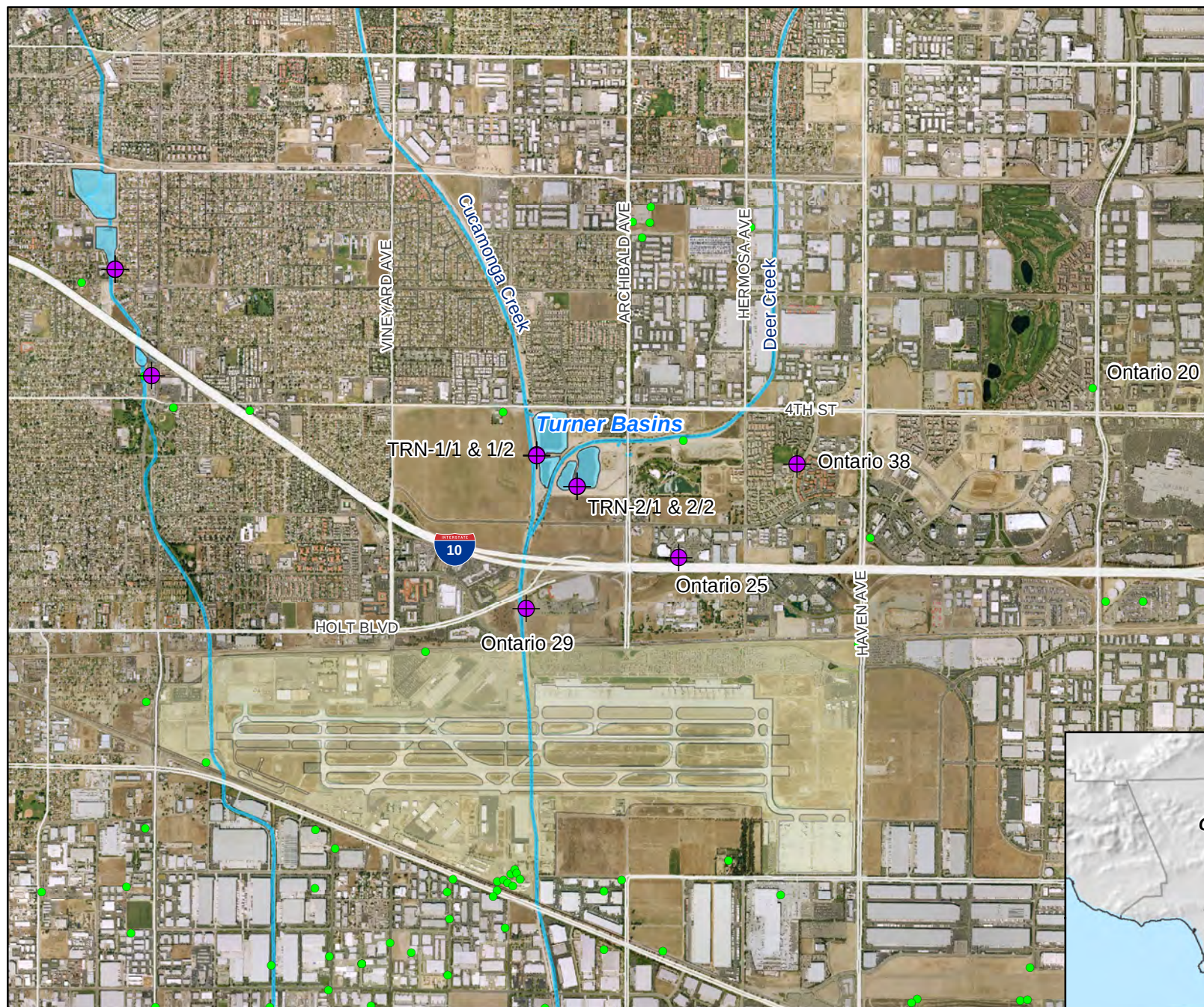


Monitoring Well Network Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





Main Map Features

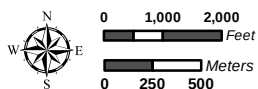
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

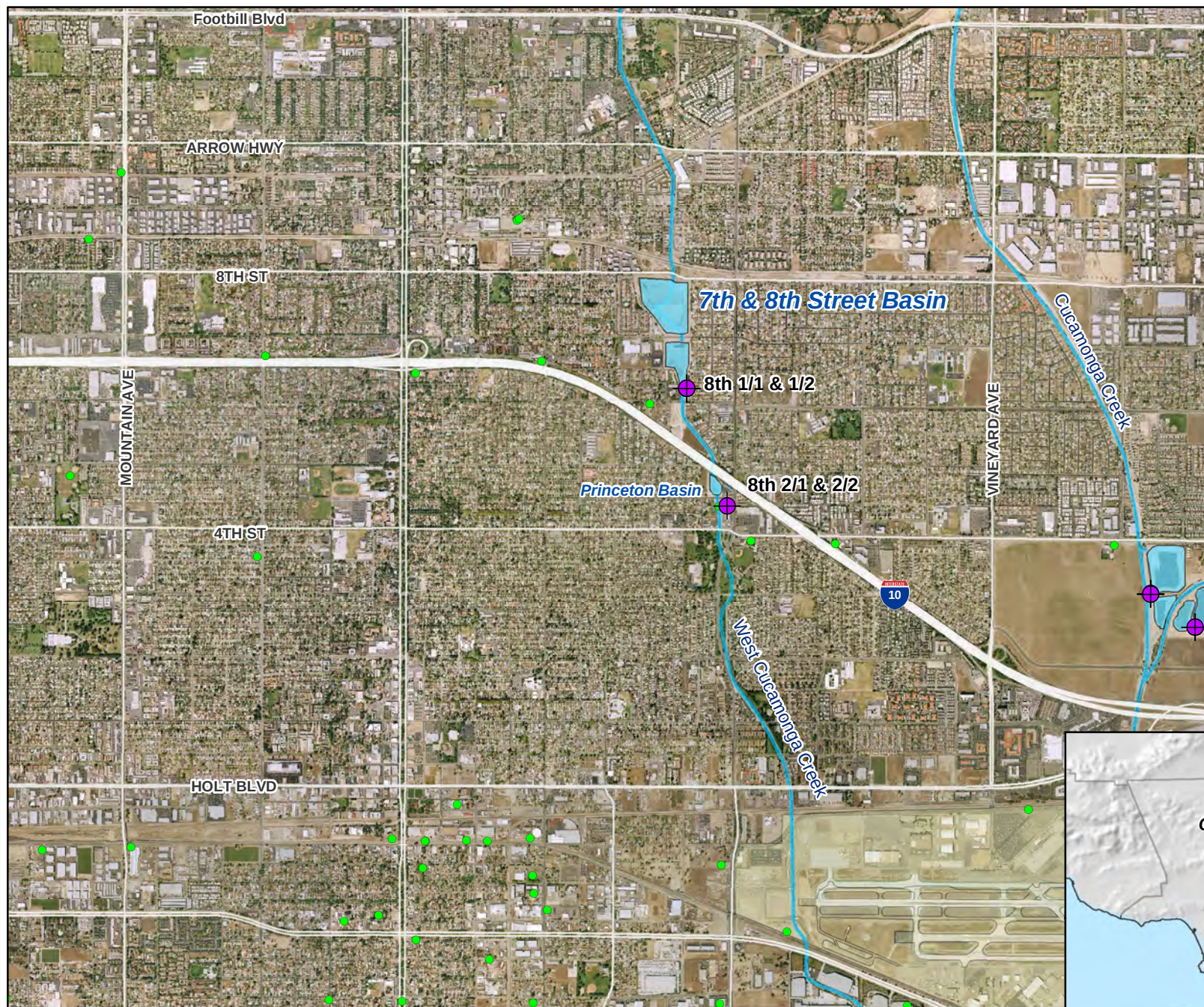


Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

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



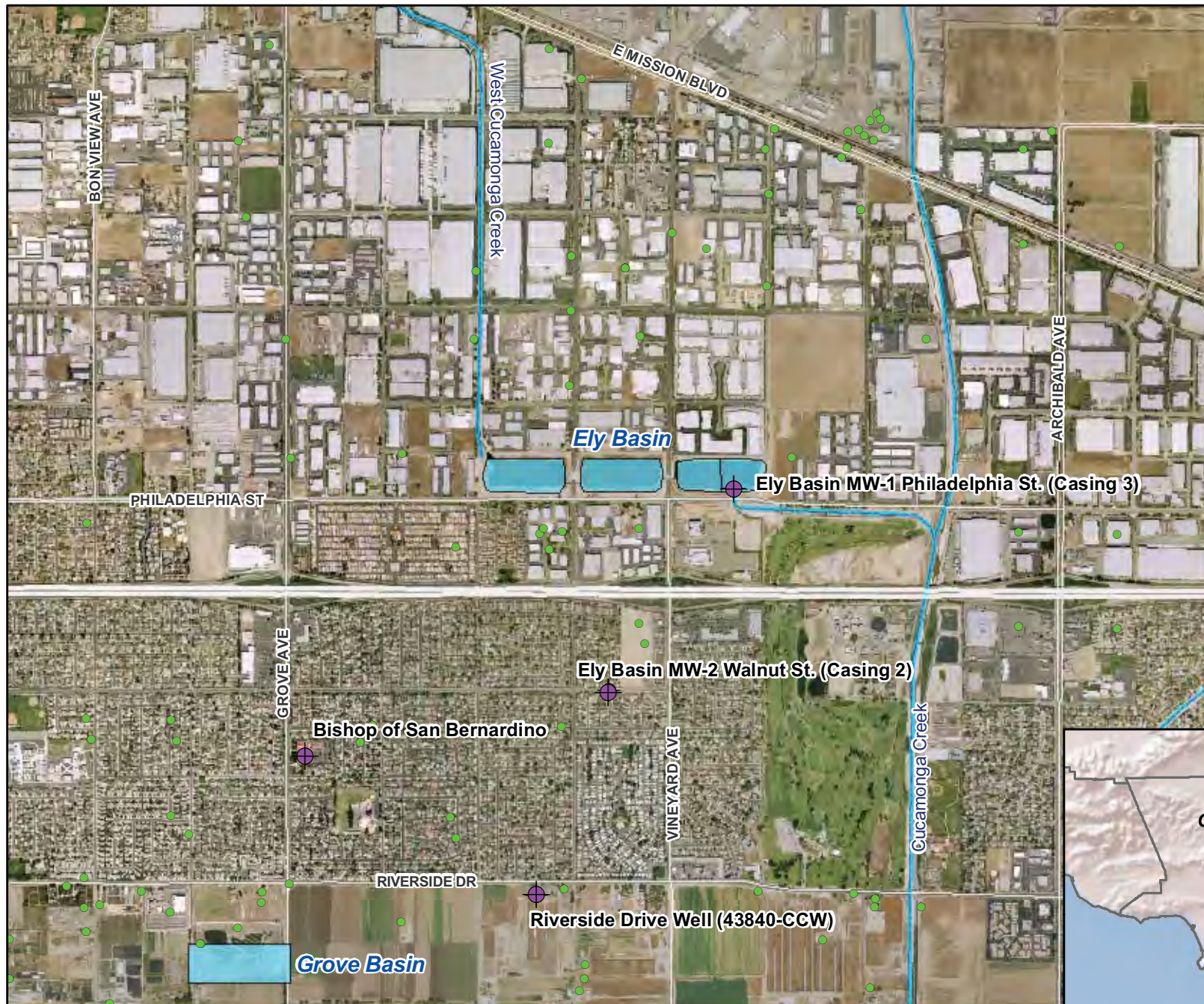
Monitoring Well Network

7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program





Main Map Features

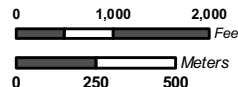
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

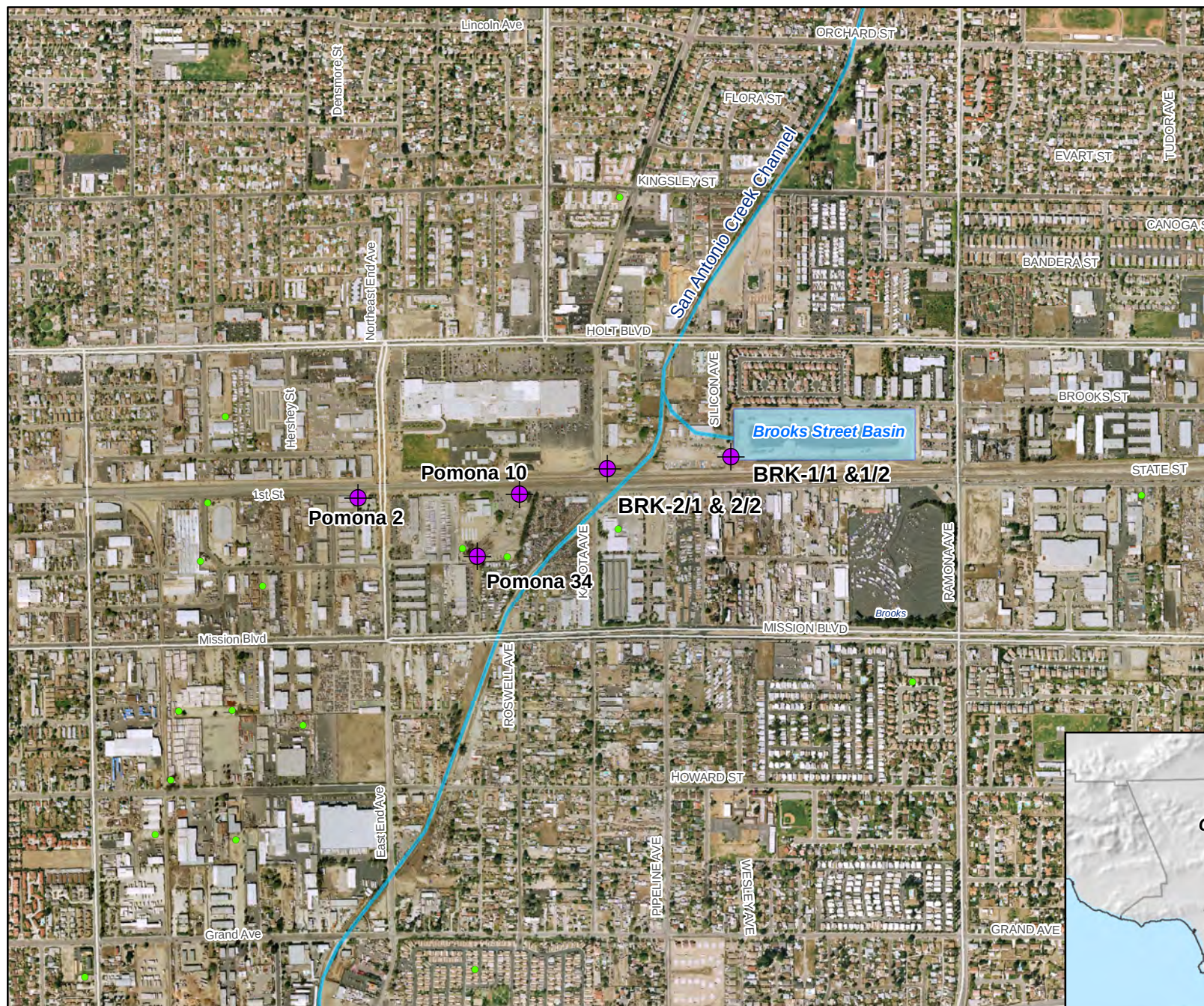


Monitoring Well Network
Ely Basins

Figure 2-4

Recycled Water Recharge Program





Main Map Features

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



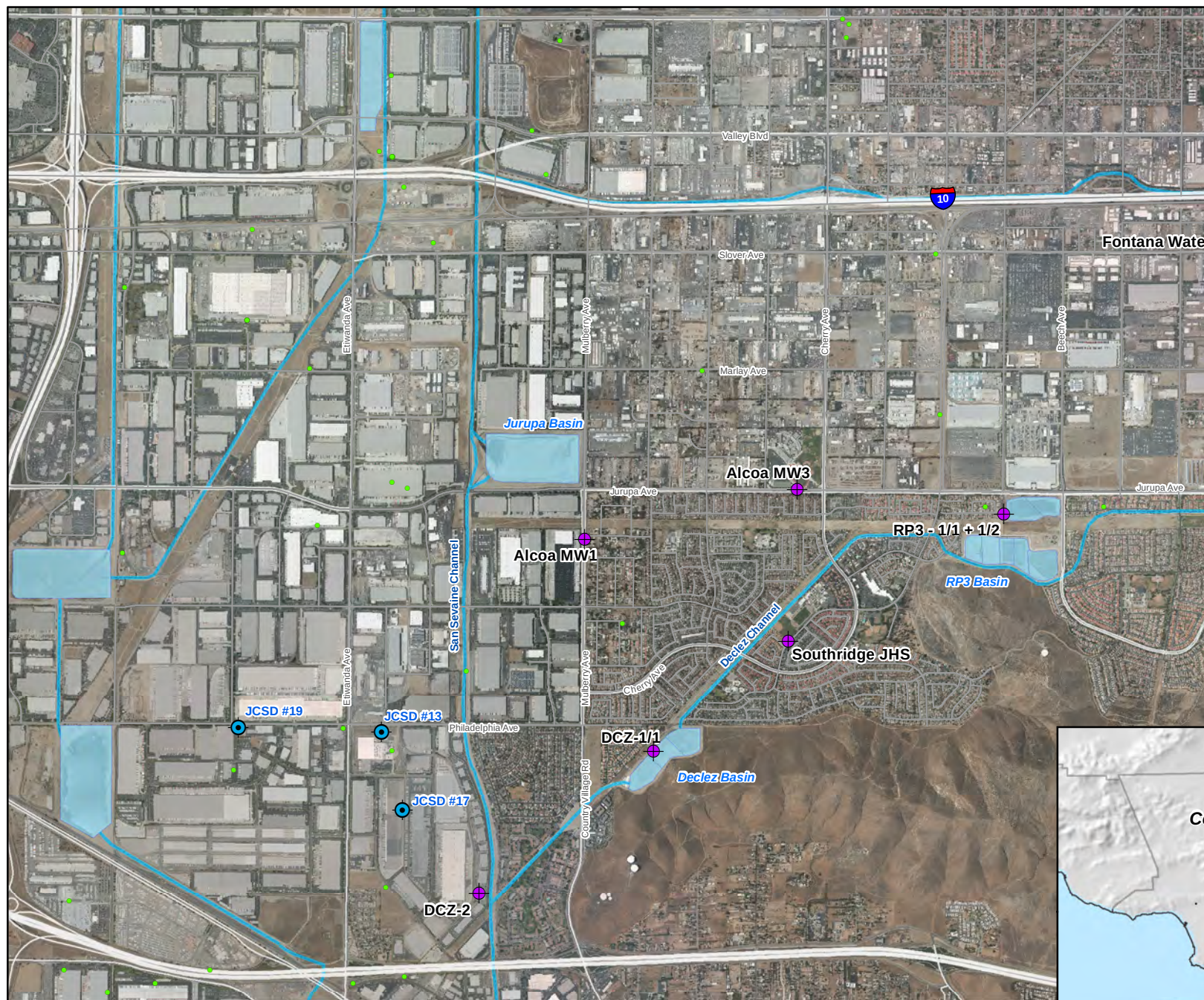
Monitoring Well Network

Brooks Street Basin

Figure 2-5

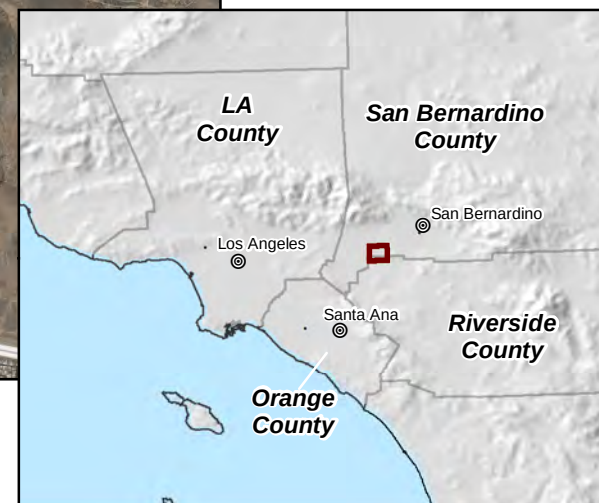
Recycled Water Recharge Program





Main Map Features

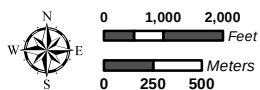
-  JCSD Wells
-  "Other Wells"
-  Existing Monitoring Well
-  Rivers/Streams/Creeks
-  Recharge Basins

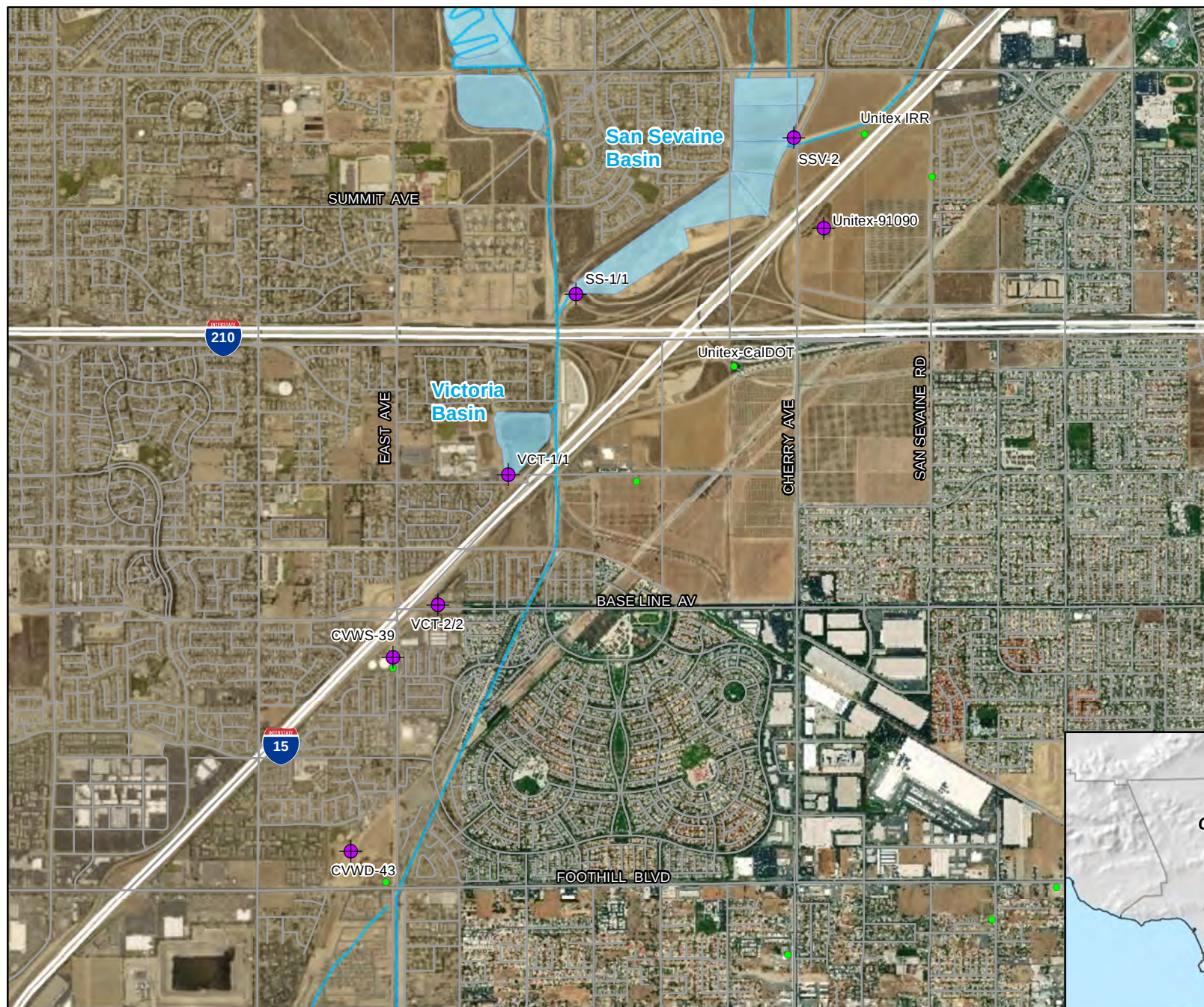


Monitoring Well Network
Declez and RP3 Basins

Figure 2-6

Recycled Water Recharge Program





Main Map Features

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



Monitoring Well Network San Sevaire and Victoria Basin

Figure 2-7

Recycled Water Recharge Program

