



Randy Lee, P.E.
Executive Manager of Operations / Assistant GM

Peter Kavounas, P.E.
General Manager

May 15, 2020

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 January through March 2020**

Dear Ms. Smythe,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the first quarter of 2020 (1Q20), January 1 through March 30, 2020, 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 1Q20, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of exceedances of 1,2,3-Trichloropropane (MCL), Perfluorooctanoic acid (notification level), and odor (secondary MCL).

Chino Basin Watermaster hereby certifies that, during the period of January 1 through March 30, 2020, 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 Sevaire, 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 May in the Cities of Chino and Rancho Cucamonga.

Randy Lee

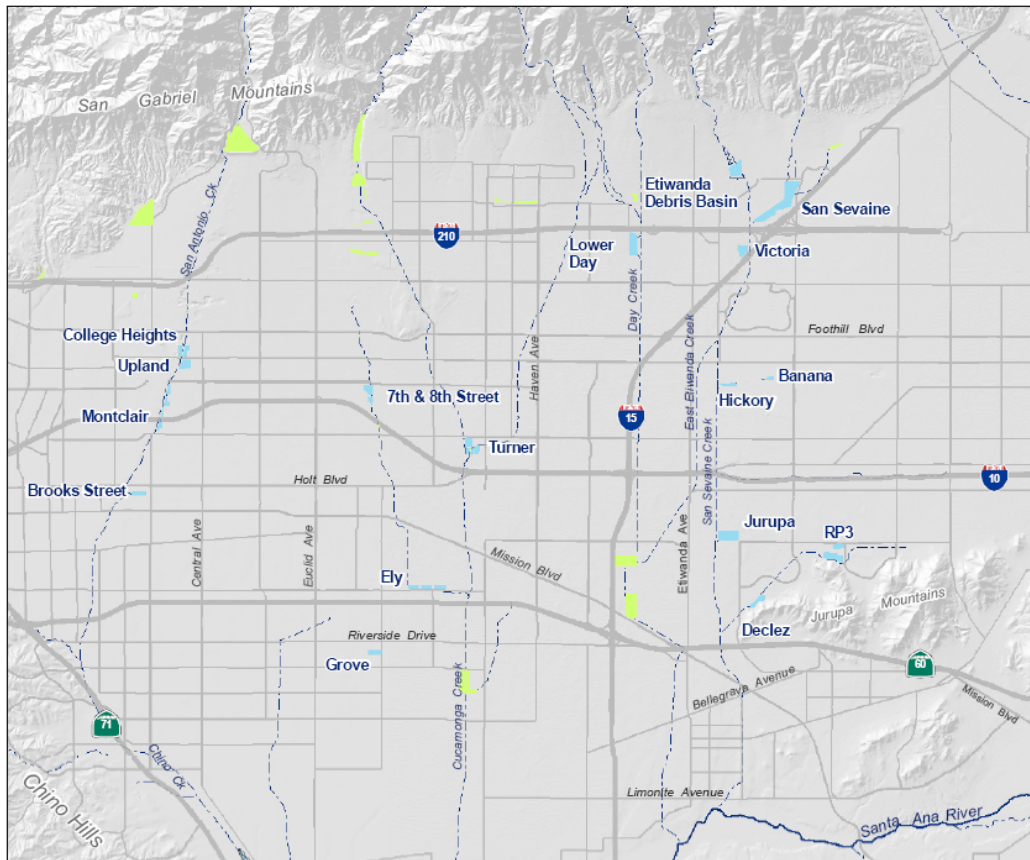
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Assistant General Manager

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General Manager

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 30, 2020



Prepared by:



May 15, 2020

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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 first quarter of 2020 (1Q20).

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. The DDW granted a deadline extension for IEUA to submit responses in an October 21, 2019 email. IEUA responded to the DDW comment letter on November 27, 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 1Q20 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 1Q20, there were no exceedances of the TN limit. Table 2-2 shows the agency-wide monthly and 12-month running average concentrations for Total Inorganic Nitrogen (TIN) and Total Dissolved Solids (TDS). TDS and TIN were not exceeded during 1Q20.

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.

Table 2-3a shows the results for the DDW approved sample location representative of the recycled water blend from RP-1 and RP-4 used for recharge located at the RP-4 1299 Pressure Zone Pump Station (RW Blend). Table 2-3b shows results for the RP-1 001B effluent. During the CAR review, DDW identified that 001B effluent must be sampled and reported independently of the RW Blend.

In the Order, compliance for all constituents with MCLs or Action Levels is based on a 4-quarter running average (Recycled Water Specifications A.1 through A.4). Table 2-3a (RW Blend) summarizes the 4-quarter running average concentration for each parameter from 2Q19 through 1Q20 and lists the corresponding compliance limits. Quarterly sampling at the RP-1 001B effluent started in 2Q19 and the 4-quarter running averages for RP-1 001B effluent are calculated starting this quarter (Table 2-3b).

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.

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.

There were no exceedances for the parameters analyzed during 1Q20 in the following categories: primary MCLs for inorganic chemicals; volatile organic compounds (VOCs), *with the exception of 1,2,3-Trichloropropane (1,2,3-TCP)*; non-volatile synthetic organic chemicals (SOCs); radionuclides; disinfection byproducts; action levels for lead and copper; notification level chemicals (NLs), *with the exception of Perfluorooctanoic acid (PFOA)*; and secondary MCLs for required constituents, *with the exception of odor*. 1,2,3-TCP, PFOA, and odor exceedances are detailed below:

1,2,3-TCP

During 3Q19, recycled water monitoring initiated at the new RW Blend and 001B Effluent sample points and 1,2,3-TCP was detected above the MCL of 0.005 µg/L. A confirmation sample was collected within 72 hours of notification of the first results, and in accordance with §60320.112(d)(2), weekly sampling began on 10/24/19. The 1,2,3-TCP results from 3Q19 through 1Q20 are shown below:

Sample	Date	RW Blend (µg/L)	4-week avg (µg/L)
Original	09/18/19	0.012	--
Confirmation	10/02/19	0.010	--
Week 1	10/24/19	0.008	--
Week 2	10/29/19	0.016	--
Week 3	11/06/19	0.009	--
Week 4	11/12/19	0.012	0.011
Week 5	11/19/19	<0.005	0.009
Week 6	11/26/19	<0.005	0.005
Week 7	12/03/19	0.010	0.005
Week 8	12/10/19	0.012	0.005

Sample	Date	001B Eff (µg/L)	4-week avg (µg/L)
Original	09/04/19	0.016	--
Confirmation	09/26/19	0.014	--
Week 1	10/02/19	0.017	--
Week 2	10/08/19	0.018	--
Week 3	10/16/19	0.018	--
Week 4	10/24/19	0.013	0.016
Week 5	10/29/19	0.018	0.016
Week 6	11/06/19	0.006	0.014
Week 7	11/12/19	0.013	0.012
Week 8	11/19/19	0.007	0.011

Sample	Date	RW Blend (µg/L)	4-week avg (µg/L)
Week 9	12/17/19	0.015	0.009
Week 10	12/26/19	0.016	0.013
Week 11	12/31/19	0.018	0.016
Week 12	01/07/20	0.017	0.017
Week 13	01/14/20	0.018	0.017
Week 14	01/21/20	0.017	0.018
Week 15	01/28/20	0.016	0.017
Week 16	02/04/20	<0.005	0.013
--	03/19/20	0.008	0.010
--	03/26/20	0.007	0.008

Sample	Date	001B Eff (µg/L)	4-week avg (µg/L)
Week 9	11/26/19	<0.005	0.006
Week 10	12/03/19	0.007	0.007
Week 11	12/10/19	0.009	0.006
Week 12	12/17/19	0.009	0.006
Week 13	12/24/19	0.012	0.009
Week 14	12/31/19	0.011	0.010
Week 15	01/07/20	0.012	0.011
Week 16	01/14/20	0.011	0.011
--	03/18/20	<0.005	0.008
--	03/24/20	<0.005	0.006

- In accordance with §60320.112(d)(2), “the GRRP shall initiate weekly monitoring for the contaminant until the running four-week average no longer exceeds the contaminant’s MCL.”
- §60320.112(d)(2)(A) states that “If the running four-week average exceeds the contaminant’s MCL, a project sponsor shall describe the reason(s) for the exceedance and provide a schedule for completion of corrective actions in a report submitted to the Department and Regional Board no later than 45 days following the quarter in which the exceedance occurred.” IEUA continued to exceed the four-week average after accelerated monitoring was implemented and the corrective actions report was submitted to the DDW and the Regional Board on February 13, 2020.
- IEUA completed the sixteen consecutive weeks of sampling the RW blend and 001B Effluent per §60320.112(d)(2)(B) during 1Q20 and notified the DDW and the Regional Board within 48 hours after the final results were received. Notifications of exceedance were emailed to the Regional Board and DDW on February 20, 2020 for the RW Blend and on January 22, 2020 for the 001B effluent.
- In a March 5, 2020 email, DDW stated that IEUA needs to continue with weekly samples for 1,2,3-TCP in the recycled water. Weekly sampling was reinitiated during the third week of March 2020. At time of reporting, we are awaiting feedback from the DDW and the Regional Board regarding the corrective actions report.

PFOA

In August 2019, the NL for PFOA was lowered from 14 ng/L to 5.1 ng/L and the NL for Perfluorooctanesulfonic acid (PFOS) was lowered from 13 ng/L to 6.5 ng/L. The NL for PFOS has never been exceeded in the recycled water sampling. However, since the NLs were lowered during 3Q19, PFOA has exceeded the NL in the recycled water sampling at both the RW Blend and 001B Effluent sample locations. No confirmation sample was collected within 72 hours of notification of the first results in exceedance, and in accordance with §60320.120(b) weekly sampling began on 10/24/19. The PFOA results from 3Q19 to 1Q20 (to-date) are shown below:

Sample	Date	RW Blend (ng/L)	4-week avg (ng/L)
Original	09/18/19	6.5	--
Confirmation	--	--	--
Week 1	10/24/19	7.8	--
Week 2	10/29/19	11	--
Week 3	11/12/19	13	--

Sample	Date	001B Eff (ng/L)	4-week avg (ng/L)
Original	08/28/19	6.2	--
Confirmation	--	--	--
Week 1	10/24/19	6.9	--
Week 2	10/29/19	6.3	--
Week 3	11/06/19	8.6	--

Sample	Date	RW Blend (ng/L)	4-week avg (ng/L)
Week 4	11/12/19	13	11
Week 5	11/19/19	11	12
Week 6	11/26/19	12	12
Week 7	12/03/19	10	12
Week 8	12/10/19	11	11
Week 9	12/17/19	10	11
Week 10	12/26/19	8.7	9.9
Week 11	12/31/19	9.5	9.8
Week 12	01/09/20	9.1	9.3
Week 13	01/14/20	12	9.8
Week 14	01/21/20	10	10
Week 15	01/28/20	11	11
Week 16	02/04/20	14	12
--	03/19/20	13	13
--	03/26/20	12	13

Sample	Date	001B Eff (ng/L)	4-week (ng/L)
Week 4	11/12/19	7.8	7.4
Week 5	11/19/19	7.7	7.6
Week 6	11/26/19	7.3	7.9
Week 7	12/03/19	9.0	8.0
Week 8	12/10/19	11	8.8
Week 9	12/17/19	7.0	8.6
Week 10	12/24/19	6.4	8.4
Week 11	12/31/19	6.0	7.6
Week 12	01/09/20	6.1	6.4
Week 13	01/14/20	5.6	6.0
Week 14	01/21/20	5.0	5.9
Week 15	02/06/20	18	8.7
Week 16	02/20/20	7.2	9.0
--	03/17/20	8.6	9.7
--	03/24/20	7.4	10
--	03/31/20	7.2	7.6

- §60320.120(b)(1) states that “If the running four-week average exceeds the contaminant’s NL, a project sponsor shall describe the reason(s) for the exceedance and provide a schedule for completion of corrective actions in a report submitted to the Regional Board no later than 45 days following the quarter in which the exceedance occurred, with a copy concurrently provided to the Department.” IEUA continued to exceed the four-week average after accelerated monitoring was implemented and the corrective actions report was submitted to the DDW and the Regional Board on February 13, 2020.
- IEUA completed the sixteen consecutive weeks of sampling the RW blend and 001B Effluent per §60320.120(b)(2) during 1Q20 and notified the DDW and the Regional Board after the final results were received. Notifications of exceedance were emailed to the Regional Board and DDW on February 25, 2020 for the RW Blend and on March 5, 2020 for the 001B effluent.
- In a March 5, 2020 email, DDW stated that IEUA needs to continue with weekly samples for PFOA in the recycled water. Weekly sampling was reinitiated during the third week of March 2020. At time of reporting, we are awaiting feedback from the DDW and the Regional Board regarding the corrective actions report.

Odor

Odor has a secondary MCL of 3 Units in Recycled Water Specification A.3. The 4-quarter running average for 1Q20 was 7 Units at the RW Blend and 13 units at the 001B effluent, causing the threshold odor compliance metric to exceed the secondary MCL. The 3-quarter running average at the 001B Effluent was 15 Units. 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 1Q20.

Although the RW Blend sample from the RP-4 1299 Pump Station 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 1Q20 sampling for these compounds, IEUA chose the 25-foot below ground surface lysimeter at the RP3 Basin (RP31-LYS-25) as the compliance point. The RP3 Basin lysimeter was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present at the 25-foot depth based on electrical conductivity (EC) measurements. NL compliance for chlorate will be met at the lysimeter in future quarters, as allowed in Title 22 §60320.120(b) which states “Recharge water (including recharge water after surface application) may be monitored in lieu of recycled municipal wastewater if the fraction of recycled municipal wastewater in the recharge water is equal to or greater than the average fraction of recycled municipal wastewater in the recharge water applied over the quarter.”

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 1Q20 are summarized in Table 2-5a. The table includes surface water and lysimeter data at the 25-foot depth for Declez Basin. The Brooks Basin surface water and 25-foot depth lysimeter were inadvertently missed during October and November 2019. 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 TOC compliance is Declez Basins. There were no exceedances of TOC at Declez Basin during 1Q20. 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 RP-4 1299 Pressure Zone Pump Station with a correction factor of 80 percent for TOC and 47 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 RP-4 1299 Pressure Zone Pump Station 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 RP-4 1299 Pressure Zone Pump Station with a correction factor of 70 percent for TOC and 87 percent for TN
- Turner Basins 3 & 4: Sampling at the RP-4 1299 Pressure Zone Pump Station 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 RP-4 1299 Pressure Zone Pump Station with a correction factor of 88 percent for TOC and 31 percent for TN
- 8th Street Basin: Sampling at the RP-4 1299 Pressure Zone Pump Station with a correction factor of 88 percent for TOC and 75 percent for TN
- San Sevaine 5 Basin: Sampling at the RP-4 1299 Pressure Zone Pump Station 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 RP-4 1299 Pressure Zone Pump Station 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

During 1Q20, there were no exceedances of TOC and TN at the basins that have implemented alternative monitoring plans.

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 will continue to be reported, however the TN compliance will be based on the 10 mg/L at the recycled water.

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.

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 Sevaine 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.

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 1Q20, diluent water quality sampling of stormwater was conducted during the month of March 2020. Table 2-7a lists the results of the local runoff sampling and analyses. The maximum level to trigger source water evaluation was exceeded for both primary and secondary MCLs for aluminum; the secondary MCLs for surfactants and manganese; and the notification level for PFOA. IEUA has submitted a preliminary evaluation of probable sources as part of the CAR and is awaiting a response from DDW regarding the need to complete a source water evaluation.

State Water Project water was delivered as diluent water during January 2020. Table 2-7b normally lists the results from Metropolitan Water District's (MWD) general mineral and physical analysis of source water from Silverwood Lake for the calendar months that imported water deliveries occurred. However, imported water data was not reported by MWD due to Silverwood Lake being out of service.

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 Sevaire, 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 1Q20 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 was detected at concentrations above the secondary MCL of 5 NTU at the following four monitoring wells in the 1Q20 monitoring period: RP3-1/1, 8TH-2/2, BRK-2/1, and DCZ-1/1. The secondary MCL for color of 15 units was exceeded at 8TH-2/2, BRK-2/1, SSV-2, and DCZ-1/1. The secondary MCL for iron of 300 µg/L was exceeded at BRK-2/1.

TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 µmhos/cm, respectively, in Alcoa MW3 and Southridge JHS. Only TDS was exceeded at Ely MW2. The wells 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.

NO₃-N samples collected from monitoring wells at RP3, Brooks, and Ely Basins were detected above the primary MCL of 10 mg/L. The NO₃-N concentrations at these wells range from 10 to 20 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 2018 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.

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

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, 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 1Q20: Ely MW1 well is damaged and requires replacement; Ontario Well 25 was taken out of service indefinitely by the DDW; Ontario Well 29 was taken out of service until Ontario's water demands are higher; Ontario Well 38 is out of service for maintenance and rehabilitation; and Fontana Water Company Well F23A is out of service to address nitrate levels. JCSD 17 is offline due to PFAS contamination. Pomona 34 was not operational due to a motor repair/replacement.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q20 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 Sevaïne, 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 4Q19. 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 January 2020
(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
01/01/20	0.6	7.2	4.1		4.1	6.9	645			<1	0.6	5.4	2.7		2.7	6.8	736			<1
01/02/20	0.6	7.4	4.7		4.7	6.9	631			<1	0.5	5.7	3.5		3.5	6.8	718			<1
01/03/20	0.6	7.5				6.9	654			<1	0.4	5.6				6.8	718			1
01/04/20	0.6	7.4				6.9	681			<1	0.4	5.4				6.8	720			<1
01/05/20	0.6	7.0	4.2	4.2	4.2	6.9	669	454	157	<1	0.4	5.5	3.9	3.9	3.9	6.8	723	418	151	<1
01/06/20	0.6	7.5	4.2		4.2	6.9	659			1	0.4	5.6	3.5		3.5	6.9	745			<1
01/07/20	0.7	7.2	3.7		3.7	6.9	660			1	0.4	6.4	3.4		3.4	7.0	735			<1
01/08/20	0.7	7.2	4.5		4.5	7.0	664			<1	0.4	5.4	3.8		3.8	7.0	732			<1
01/09/20	0.6	6.7				7.0	667			<1	0.4	4.8				7.1	744			<1
01/10/20	0.6	6.9				7.0	663			2	0.3	4.8				7.0	722			<1
01/11/20	0.6	6.8				7.0	656			<1	0.4	5.3				7.0	741			<1
01/12/20	0.6	7.5	4.5	4.5	4.5	7.0	638	440		<1	0.5	5.9	4.4	5.8	4.4	7.0	735	432		<1
01/13/20	0.7	7.2	4.8		4.8	6.9	639			<1	0.4	5.2	4.6		4.6	6.9	715			<1
01/14/20	0.7	7.4	3.8		3.8	6.9	682			<1	0.4	5.1	5.5		5.5	6.8	715			<1
01/15/20	0.7	8.2	3.5		3.5	6.9	678			<1	0.4	5.2	7.0		7.0	6.8	705			<1
01/16/20	0.8	7.9	2.8		2.8	7.0	694			<1	0.4	5.0	7.5		7.5	6.8	705			<1
01/17/20	0.8	7.4				7.0	697			<1	0.4	5.1				6.8	709			<1
01/18/20	0.8	7.7				7.0	705			<1	0.4	5.1				6.8	719			<1
01/19/20	0.8	8.0	3.3	3.3	3.3	6.9	691	458		1	0.4	5.7	5.3	5.3	5.3	6.8	718	424		<1
01/20/20	0.7	8.0	3.5		3.5	6.8	671			<1	0.5	5.7	4.5		4.5	6.8	717			<1
01/21/20	0.8	8.2	2.8		2.8	6.8	686			1	0.5	5.8	4.3		4.3	6.8	717			<1
01/22/20	0.9	7.4	2.7		2.7	6.8	684			2	0.5	5.6				6.8	720			<1
01/23/20	0.9	8.3	2.7		2.7	6.8	688			<1	0.5	5.5	5.1		5.1	6.7	725			<1
01/24/20	0.9	7.7				6.8	696			<1	0.5	5.5				6.7	721			<1
01/25/20	0.8	7.7				6.8	697			<1	0.5	5.7				6.7	724			<1
01/26/20	0.8	7.6	4.4	4.4	4.4	6.8	673	446		<1	0.5	5.6	4.2	5.1	4.2	6.8	723	418		<1
01/27/20	0.7	7.7	4.8		4.8	6.8	669			1	0.7	6.0	4.0		4.0	6.8	736			<1
01/28/20	0.7	7.4	3.6		3.6	6.8	706			<1	0.8	6.0	3.3		3.3	6.8	728			<1
01/29/20	0.7	7.6	4.1		4.1	6.8	707			<1	0.8	5.8	3.6		3.6	6.9	718			<1
01/30/20	0.7	7.2	3.6		3.7	6.7	722			1	0.8	5.6	4.5		4.5	6.9	721			<1
01/31/20	0.6	7.2				6.7	740			1	0.8	5.7				6.8	719			<1
Avg	0.7	7.5	3.8	4.1	3.8	6.9	678	450	157	<1	0.5	5.5	4.4	5.0	4.4	6.8	723	423	151	<1
Min	0.6	6.7	2.7	3.3	2.7	6.7	631	440	157	<1	0.3	4.8	2.7	3.9	2.7	6.7	705	418	151	<1
Max	0.9	8.3	4.8	4.5	4.8	7.0	740	458	157	2	0.8	6.4	7.5	5.8	7.5	7.1	745	432	151	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 February 2020
(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
02/01/20	0.5	7.5				6.7	756			<1	0.8	5.8				6.8	725			<1
02/02/20	0.5	7.6	2.2	2.2	2.2	6.8	730	444	179	<1	0.8	5.9	3.1	3.7	3.1	6.8	733	420	160	<1
02/03/20	0.6	7.7	3.0		3.0	6.8	697			1	0.8	5.8	3.1		3.1	6.9	720			<1
02/04/20	0.7	7.6				6.9	697			<1	0.8	5.9				7.0	719			<1
02/05/20	0.7	7.0	3.1		3.2	6.9	696			<1	0.6	5.6	4.9		4.9	6.9	720			<1
02/06/20	0.6	6.7	2.5			6.8	708			<1	0.6	5.6	5.3			6.8	729			<1
02/07/20	0.6	7.3				6.8	727			<1	0.6	5.5				6.8	711			<1
02/08/20	0.6	7.4				6.8	721			<1	0.5	5.7				6.8	731			<1
02/09/20	0.6	7.2	3.7	3.7	3.7	6.9	702	452		<1	0.5	5.8	4.4	4.4	4.4	6.8	738	438		<1
02/10/20	0.6	7.2	4.6		4.6	6.8	704			<1	0.5	5.9	4.3		4.3	6.9	725			<1
02/11/20	0.7	7.2	4.1		4.1	6.8	734			1	0.5	5.8	4.3		4.3	6.9	726			<1
02/12/20	0.7	6.9	3.7		3.7	6.8	745			1	0.5	5.7	4.8		4.8	6.8	729			<1
02/13/20	0.7	6.9	3.4		3.4	6.8	754			1	0.5	5.6	5.2		5.2	6.8	737			<1
02/14/20	0.7	6.7				6.8	753			<1	0.5	5.3				6.8	734			<1
02/15/20	0.7	6.6				6.8	752			<1	0.5	5.4				6.8	735			<1
02/16/20	0.7	6.6				6.8	737			<1	0.5	5.5				6.8	734			<1
02/17/20	0.7	5.7	5.0		5.0	6.8	711			<1	0.4	6.9	3.5		3.5	6.8	737			<1
02/18/20	0.7	6.8	4.6		4.6	6.8	714			<1	0.5	5.8	3.0		3.0	6.9	735			<1
02/19/20	0.7	6.5	4.3	4.3	4.3	6.7	716	456		1	0.4	5.5	3.3	3.9	3.3	6.9	735	424		<1
02/20/20	0.8	7.1				6.7	721			<1	0.4	5.3				7.0	735			<1
02/21/20	0.7	6.5				6.8	727			<1	0.4	5.0				7.0	737			<1
02/22/20	0.7	6.7				6.8	728			<1	0.4	5.1				7.0	735			<1
02/23/20	0.7	6.8	5.3	5.3	5.3	6.8	716	446		<1	0.4	5.2	3.9	4.8	3.9	7.0	746	424		<1
02/24/20	0.7	7.0	5.7		5.7	6.8	648			<1	0.5	5.2	3.3		3.3	7.0	758			<1
02/25/20	0.7	7.0	5.1		5.1	7.0	627			<1	0.5	5.2	3.6		3.6	7.1	765			<1
02/26/20	0.7	7.2	4.7		4.7	6.9	638			<1	0.5	5.3	4.7		4.7	7.1	777			<1
02/27/20	0.7	7.2	4.7		4.7	6.9	646			<1	0.5	4.9	4.1		4.1	7.0	760			<1
02/28/20	0.8	7.0				6.9	649			<1	0.4	5.0				6.9	757			<1
02/29/20	0.8	7.1				6.9	650			<1	0.4	5.2				6.9	754			<1
Avg	0.7	7.0	4.1	3.9	4.2	6.8	707	450	179	<1	0.5	5.5	4.0	4.2	4.0	6.9	737	427	160	<1
Min	0.5	5.7	2.2	2.2	2.2	6.7	627	444	179	<1	0.4	4.9	3.0	3.7	3.0	6.8	711	420	160	<1
Max	0.8	7.7	5.7	5.3	5.7	7.0	756	456	179	1	0.8	6.9	5.3	4.8	5.2	7.1	777	438	160	<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 March
(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
03/01/20	0.8	7.5	5.4	6.3	5.4	7.0	642	442	157	<1	0.4	5.3	3.6	4.4	3.6	7.0	740	440	144	<1
03/02/20	0.9	7.9	5.3		5.3	6.9	630			<1	0.5	5.5	3.7		3.7	6.9	750			5.2
03/03/20	1.0	7.8	4.8		4.8	6.9	682			21.3	0.5	5.3	3.7		3.7	6.8	752			<1
03/04/20	1.1	7.9	4.7		4.7	6.8	724			<1	0.6	5.3	4.2		4.2	6.8	752			<1
03/05/20	0.9	7.6	4.5		4.5	6.8	734			<1	0.6	5.5	4.7		4.7	6.7	748			<1
03/06/20	0.8	7.3				6.8	730			1	0.6	5.6				6.7	745			<1
03/07/20	0.9	7.4				6.9	750			<1	0.6	5.2				6.8	746			<1
03/08/20	0.9	6.9	5.0	5.9	5.0	6.9	743	462		<1	0.6	5.2	3.8	3.8	3.8	6.8	738	436		<1
03/09/20	0.8	7.4	5.5		5.5	6.9	715			29.5	0.6	5.6	3.5		3.5	6.9	740			<1
03/10/20	0.8	7.4	4.8		4.8	7.0	750			<1	0.6	5.4	3.9		3.9	6.9	736			<1
03/11/20	0.8	7.4	4.0		4.0	7.0	756			<1	0.5	5.3	4.6		4.6	6.9	731			<1
03/12/20	0.7	7.0	4.2		4.2	7.1	774			<1	0.5	5.4	4.9		4.9	6.9	733			<1
03/13/20	0.5	6.0				7.0	713			<1	0.5	5.0				6.9	712			<1
03/14/20	0.5	6.2				7.0	736			<1	0.5	5.1				6.9	730			<1
03/15/20	0.5	6.3	5.0	5.9	5.0	7.0	751	450		<1	0.5	5.1	4.5	5.6	4.5	6.9	749	446		<1
03/16/20	0.5	6.7	5.2		5.2	6.9	715			1	0.5	5.6	4.5		4.5	6.9	765			<1
03/17/20	0.6	7.1	4.7		4.7	6.7	743			<1	0.6	5.4	4.9		4.9	6.9	765			<1
03/18/20	0.6	6.7	4.0		4.0	6.8	765			<1	0.5	5.3	5.4		5.4	6.9	762			<1
03/19/20	0.6	6.7	3.7		3.7	6.8	782			<1	0.5	5.2	6.0		6.0	6.9	769			<1
03/20/20	0.6	6.3				6.7	776			<1	0.5	5.2				6.9	771			<1
03/21/20	0.6	6.6				6.7	784			<1	0.5	5.2				6.9	772			<1
03/22/20	0.6	6.7	4.9	5.8	4.9	6.7	793	470		<1	0.6	5.2	5.5	6.4	5.5	6.9	772	454		<1
03/23/20	0.6	6.5	4.5		4.5	6.7	750			<1	0.6	5.3	5.3		5.3	6.9	756			<1
03/24/20	0.6	7.0	4.2		4.2	6.8	767			1	0.6	5.3	5.8		5.8	6.9	755			<1
03/25/20	0.7	7.0	3.7		3.7	6.8	797			<1	0.6	5.4	6.2		6.2	6.9	764			<1
03/26/20	0.7	7.1	3.8		3.8	6.9	810			<1	0.6	5.2	6.8		6.8	6.9	773			<1
03/27/20	0.7	7.0				6.8	807			<1	0.5	5.2				6.9	778			<1
03/28/20	0.7	6.6				6.8	813			<1	0.5	5.2				6.9	777			<1
03/29/20	0.6	6.6	5.1	6.0	5.1	6.8	803	476		<1	0.5	5.1	6.0	6.0	6.0	6.9	777	446		<1
03/30/20	0.6	6.6	4.9		4.9	6.7	794			<1	0.6	5.4	5.9			6.9	749			<1
03/31/20	0.6	7.1	6.1		6.1	6.7	791			<1	0.6	5.6	4.3		4.3	6.8	770			<1
Avg	0.7	7.0	4.7	6.0	4.7	6.9	752	460	157	<3	0.5	5.3	4.9	5.2	4.8	6.9	754	444	144	<1
Min	0.5	6.0	3.7	5.8	3.7	6.7	630	442	157	<1	0.4	5.0	3.5	3.8	3.5	6.7	712	436	144	<1
Max	1.1	7.9	6.1	6.3	6.1	7.1	813	476	157	30	0.6	5.6	6.8	6.4	6.8	7.0	778	454	144	5

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 2-2
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-19	3.2	4.8	447	485
Aug-19	3.8	4.7	447	482
Sep-19	4.0	4.6	452	481
Oct-19	4.5	4.6	445	477
Nov-19	3.9	4.5	465	473
Dec-19	4.1	4.4	461	471
Oct-19	4.5	4.6	445	477
Nov-19	3.9	4.5	465	473
Dec-19	4.1	4.4	461	471
Jan-20	3.5	4.2	470	468
Feb-20	4.0	4.1	473	467
Mar-20	4.0	4.0	492	467
Avg	4.0	4.4	460	474
Min	3.2	4.0	445	467
Max	4.5	4.8	492	485
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.4 & A.15)

Constituent	2Q19	3Q19	4Q19	1Q20	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	31	72	41	67	53	1000	µg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.2	<2	NR	NR	<2	7	MFL	EPA 100.2
Barium	17	13	14	21	16	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	<0.5	1.9	2.1	1.1	1.4	50	µg/L	EPA 200.8
Chromium VI ²	0.39	0.36	0.39	0.41	0.39	10	µg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	µg/L	OIA-1677, DW
Fluoride	0.2	0.1	0.1	0.2	0.2	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.1
Nickel	3	3	3	2	<5	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
Selenium	<2	<2	<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	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-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	0.6	<0.5	1750 ³	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ³	µg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/17)	<0.005	see 3Q19 text	see 4Q19 text	see 1Q20 text	see report text	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	<0.05	<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	<0.2	<0.02	<0.02	<0.2	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	7	6	6	6	6	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	<0.5	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	0.5	<0.6	<0.6	0.4	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
Recycled Water Monitoring - RW Blend (RP1/RP-4): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

Constituent	2Q19	3Q19	4Q19	1Q20	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.04	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.5	<0.05	<0.05	<0.5	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.5	<0.05	0.099	<0.5	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.5	<0.1	<0.1	<0.5	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<5	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.5	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	5.6	5.1	5.7	7.5	6.0	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	<0.337	0.61	<0.405	<1	<1	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<314	<331	<316	<343	<338	20,000	pCi/L	EPA 906
Strontium-90	<1	<1.16	<0.70	<3	<1.16	8	pCi/L	EPA 905
Gross Beta Particle Activity	15	15	15	14	15	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	31	72	41	67	53	200	µg/L	EPA 200.8
Copper	5.6	5.1	5.7	7.5	6.0	1000	µg/L	EPA 200.8
Corrosivity	-0.5 (Non-Cor.)	0.3 (Non-Cor.)	0.3 (Non-Cor.)	0.3 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	<0.1	0.2	<0.1	0.11	0.1	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	<150	NR	NR	NR	50	300	µg/L	EPA 200.7
Manganese	11	11	12	10	11	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	2	17	2	8	7	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.5	<0.2	<0.2	<0.5	1	µg/L	EPA 525.2
Zinc	53	67	51	63	59	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁵	<1	<1	4	<1	--	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<1	<1	1	<1	<1	10	µg/L	EPA 300.1/317
Chlorite	NA	0.01	0.02	<0.01	0.01	1	mg/L	EPA 300.0
Alternative Compliance Point Data	BNA-LYS-10 DCZ2-LYS-25 RP31-LYS-25 <==TTHMs							
	8TH-LYS-35 BNA-LYS-10 DCZ2-LYS-25 RP31-LYS-25 <==HAA5							
	2Q19	3Q19	4Q19	1Q20				
Total Trihalomethanes (TTHMs)	<2	7	2	102	28	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	<2	<2	<2	<2	60	µg/L	S6251B

NR: Not required this quarter

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

² 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 2-3b
Recycled Water Monitoring - RP-1 (001B Effluent): Primary & Secondary Maximum Contaminant Levels
(Recycled Water Quality Specifications A.1, A.2, A.3, A.4 & A.15)

Constituent	2Q19	3Q19	4Q19	1Q20	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	84	109	105	71	92	1000	µg/L	EPA 200.8
Antimony	<1	<1	<1	<1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<0.21	<0.18	<0.18	<0.19	<0.21	7	MFL	EPA 100.2
Barium	20	20	16	20	19	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 200.8
Chromium VI ²	2.2	0.7	0.4	0.4	0.9	10	µg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	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	<0.025	NA	<0.025	<0.025	<0.025	2	µg/L	EPA 245.1
Nickel	3	3	14	3	6	100	µg/L	EPA 200.8
Perchlorate	<4	<4	<4	<4	<4	6	µg/L	EPA 314/331.0
Selenium	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	1.7	see 3Q19 text	<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	2.0	0.7	<0.5	<0.5	0.9	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	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-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	0.7	0.6	0.6	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)	<0.005	see 3Q19 text	see 4Q19 text	see 1Q20 text	see report text	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	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	<0.1	<0.1	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	4	5	3	4	4	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	<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.4 & A.15)

Constituent	2Q19	3Q19	4Q19	1Q20	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	<6	<6	<6	<6	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.04	<0.01	<0.02	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	<0.1	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	0.081	<0.1	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	<0.04	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<0.05	<0.05	<0.05	<0.05	4	µg/L	EPA 525.2
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	µg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	5.1	4.4	4.1	4.2	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	<0.37	<0.495	<0.425	<1	<1	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	<3	<3	<3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<314	<323	<305	<319	<323	20,000	pCi/L	EPA 906
Strontium-90	<0.54	<1.68	<0.7	<3	<1.68	8	pCi/L	EPA 905
Gross Beta Particle Activity	17	15	16	16	16	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	84	109	105	71	92	200	µg/L	EPA 200.8
Copper	5.1	4.4	4.2	4.2	4.5	1000	µg/L	EPA 200.8
Corrosivity	-0.4 (Non-Cor.)	0.1 (Non-Cor.)	-0.4 (Non-Cor.)	-0.3 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	NA	0.2	0.11	<0.1	0.1	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	NA	<150	<150	<150	47	300	µg/L	EPA 200.7
Manganese	7	14	12	5	10	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	3	40	2	8	13	3	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.8
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.5	1	µg/L	EPA 525.2
Zinc	41	32	36	52	40	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁵	NA	NA	NA	<1	--	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<1	<1	<1	<1	<1	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<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	1Q20	Unit	Method	Constituent	1Q20	Unit	Method
Volatile Organic Chemicals (VOCs)				Base/Neutral Extractibles			
Acrolein	<2	µg/L	EPA 624	N-Nitrosodiphenylamine	<1	µg/L	EPA 625
Acrylonitrile	<0.25	µg/L	EPA 624	Phenanthrene	<1	µg/L	EPA 625
Bromoform	<0.5	µg/L	EPA 524.2/624	Pyrene	<1	µg/L	EPA 625
Chlorodibromomethane	3.4	µg/L	EPA 524.2/624	Pesticides			
Chloroethane	<0.5	µg/L	EPA 524.2/624	Aldrin	<0.004	µg/L	EPA 505/525/608
2-Chloroethylvinylether	0.0	µg/L	EPA 524.2/624	BHC, alpha isomer	<0.008	µg/L	EPA 525/608
Chloroform	61	µg/L	EPA 524.2/624	BHC, beta isomer	<0.005	µg/L	EPA 525/608
Dichlorobromomethane	20	µg/L	EPA 524.2/624	BHC, delta isomer	<0.007	µg/L	EPA 525/608
Methyl Bromide	<0.5	µg/L	EPA 524.2/624	4,4'-DDT	<0.006	µg/L	EPA 525/608
Methyl Chloride	<0.5	µg/L	EPA 524.2/624	4,4'-DDE	<0.006	µg/L	EPA 525/608
Acid Extractibles				4,4'-DDD	<0.008	µg/L	EPA 525/608
2-Chlorophenol	<1	µg/L	EPA 625	Dieldrin	<0.006	µg/L	EPA 505/525/608
2,4-Dichlorophenol	<2	µg/L	EPA 625	Endosulfan I	<0.01	µg/L	EPA 525/608
2,4-Dimethylphenol	<1	µg/L	EPA 625	Endosulfan II	<0.007	µg/L	EPA 525/608
2-Methyl-4,6-dinitrophenol	<2	µg/L	EPA 625	Endosulfan Sulfate	<0.009	µg/L	EPA 525/608
2,4-Dinitrophenol	<3	µg/L	EPA 625	Chemicals w/ State Notification Levels (NLs)			
2-Nitrophenol	<1	µg/L	EPA 625	Boron	0.3	mg/L	EPA 200.7
4-Nitrophenol	<3	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2
4-Chloro-3-methylphenol	<1	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2
Phenol	<1	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2
2,4,6-Trichlorophenol	<1	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2
Base/Neutral Extractibles				Chlorate*	0.3	µg/L	EPA 300.0
Acenaphthene	<1	µg/L	EPA 625	2-Chlorotoluene	<0.5	µg/L	EPA 524.2
Acenaphthylene	<1	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2
Anthracene	<1	µg/L	EPA 625	Diazinon	<0.1	µg/L	EPA 525.2
Benzidine	<5	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2
Benzo(a)anthracene	<5	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522
Benzo(b)fluoranthene	<1	µg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B
Benzo(g,h,i)perylene	<2	µg/L	EPA 625	Formaldehyde	34	µg/L	EPA 556
Benzo(k)fluoranthene	<1	µg/L	EPA 625	HMX	<0.1	µg/L	EPA 8330B
Bis(2-chloroethoxy)methane	<2	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2
Bis(2-chloroethyl)ether	<1	µg/L	EPA 625	Manganese	10	µg/L	EPA 200.8
Bis(2-chloroisopropyl)ether	<1	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2
4-Bromophenyl phenyl ether	<1	µg/L	EPA 625	Naphthalene	<0.5	µg/L	EPA 525.2/524.2
Butyl benzyl phthalate	<1	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521
2-Chloronaphthalene	<1	µg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	2.3	ng/L	EPA 521
4-Chlorophenyl phenyl ether	<1	µg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521
Chrysene	<1	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	see report text	ng/L	EPA 537.1
Dibenzo(a,h)anthracene	<1	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1
1,3-Dichlorobenzene	<1	µg/L	EPA 625	Propachlor	<0.05	µg/L	EPA 525.2
3,3-Dichlorobenzidine	<5	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2
Diethyl phthalate	<2	µg/L	EPA 625	RDX	<0.1	µg/L	EPA 8330B
Dimethyl phthalate	<1	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2
Di-n-butyl phthalate	<1	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2
2,4-Dinitrotoluene	<1	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2
2,6-Dinitrotoluene	<2	µg/L	EPA 625	2,4,6-Trinitrotoluene	<0.1	µg/L	EPA 8330B
Di-n-octyl phthalate	<1	µg/L	EPA 625	Vanadium	<5	µg/L	EPA 200.8
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)	2.3	ng/L	EPA 521
Hexachlorobutadiene	<1	µg/L	EPA 625	N-Nitrosomorpholine	4.4	ng/L	EPA 521
Hexachlorocyclopentadiene	<5	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	see report text	ng/L	EPA 537.1
Hexachloroethane	<1	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1
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	7800	ng/L	LC-MS-MS
Naphthalene	<1	µg/L	EPA 625	Sucralose	62000	ng/L	LC-MS-MS
Nitrobenzene	<1	µg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS
N-Nitroso-di-n-propylamine	<1	µg/L	EPA 625				

NR: Not Required (Annual Requirement, Phase II FOF, Attachment A, Page 26, Item 19)

*Pursuant to the GRRP regulations, recharge water may be monitored in lieu of recycled water.

**PFOA is being analyzed weekly for the exceedance of the NL and is reported in Section 2A of this report

Table 2-4b

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

Constituent	1Q20	Unit	Method	Constituent	1Q20	Unit	Method
Volatile Organic Chemicals (VOCs)				Base/Neutral Extractibles			
Acrolein	NR	µg/L	EPA 624	N-Nitrosodiphenylamine	NR	µg/L	EPA 625
Acrylonitrile	NR	µg/L	EPA 624	Phenanthrene	NR	µg/L	EPA 625
Bromoform	<0.5	µg/L	EPA 524.2/624	Pyrene	NR	µg/L	EPA 625
Chlorodibromomethane	3.3	µg/L	EPA 524.2/624	Pesticides			
Chloroethane	<0.5	µg/L	EPA 524.2/624	Aldrin	NR	µg/L	EPA 505/608
2-Chloroethylvinylether	<1	µg/L	EPA 524.2/624	BHC, alpha isomer	NR	µg/L	EPA 525/608
Chloroform	111	µg/L	EPA 524.2/624	BHC, beta isomer	NR	µg/L	EPA 525/608
Dichlorobromomethane	25	µg/L	EPA 524.2/624	BHC, delta isomer	NR	µg/L	EPA 525/608
Methyl Bromide	<0.5	µg/L	EPA 524.2/624	4,4'-DDT	NR	µg/L	EPA 525/608
Methyl Chloride	<0.5	µg/L	EPA 524.2/624	4,4'-DDE	NR	µg/L	EPA 525/608
Acid Extractibles				4,4'-DDD	NR	µg/L	EPA 525/608
2-Chlorophenol	NR	µg/L	EPA 625	Dieldrin	NR	µg/L	EPA 505/608
2,4-Dichlorophenol	NR	µg/L	EPA 625	Endosulfan I	NR	µg/L	EPA 525/608
2,4-Dimethylphenol	NR	µg/L	EPA 625	Endosulfan II	NR	µg/L	EPA 525/608
2-Methyl-4,6-dinitrophenol	NR	µg/L	EPA 625	Endosulfan Sulfate	NR	µg/L	EPA 525/608
2,4-Dinitrophenol	NR	µg/L	EPA 625	Chemicals w/ State Notification Levels (NLs)			
2-Nitrophenol	NR	µg/L	EPA 625	Boron	0.3	mg/L	EPA 200.7
4-Nitrophenol	NR	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2
4-Chloro-3-methylphenol	NR	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2
Phenol	NR	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2
2,4,6-Trichlorophenol	NR	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2
Base/Neutral Extractibles				Chlorate	0.2	µg/L	EPA 300.0
Acenaphthene	NR	µg/L	EPA 625	2-Chlorotoluene	<0.5	µg/L	EPA 524.2
Acenaphthylene	NR	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2
Anthracene	NR	µg/L	EPA 625	Diazinon	<0.1	µg/L	EPA 525.2
Benzidine	NR	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2
Benzo(a)anthracene	NR	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522
Benzo(b)fluoranthene	NR	µg/L	EPA 625	Ethylene glycol	<5	mg/L	EPA 8015B
Benzo(g,h,i)perylene	NR	µg/L	EPA 625	Formaldehyde	21	µg/L	EPA 556
Benzo(k)fluoranthene	NR	µg/L	EPA 625	HMX	<0.1	µg/L	EPA 8330B
Bis(2-chloroethoxy)methane	NR	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2
Bis(2-chloroethyl)ether	NR	µg/L	EPA 625	Manganese	5	µg/L	EPA 200.8
Bis(2-chloroisopropyl)ether	NR	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2
4-Bromophenyl phenyl ether	NR	µg/L	EPA 625	Naphthalene	<0.5	µg/L	EPA 525.2
Butyl benzyl phthalate	NR	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521
2-Chloronaphthalene	NR	µg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	3.8	ng/L	EPA 521
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521
Chrysene	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	see report text	ng/L	EPA 537.1
Dibenzo(a,h)anthracene	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1
1,3-Dichlorobenzene	NR	µg/L	EPA 625	Propachlor	<0.05	µg/L	EPA 525.2
3,3-Dichlorobenzidine	NR	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2
Diethyl phthalate	NR	µg/L	EPA 625	RDX	<0.1	µg/L	EPA 8330B
Dimethyl phthalate	NR	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2
Di-n-butyl phthalate	NR	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2
2,4-Dinitrotoluene	NR	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2
2,6-Dinitrotoluene	NR	µg/L	EPA 625	2,4,6-Trinitrotoluene	<0.1	µg/L	EPA 8330B
Di-n-octyl phthalate	NR	µg/L	EPA 625	Vanadium	<3	µg/L	EPA 200.8
Azobenzene	NR	µg/L	EPA 625	Health-based and performance indicator CECs for Surface Application			
Fluoranthene	NR	µg/L	EPA 625	1,4 - Dioxane	<1	µg/L	EPA 522
Fluorene	NR	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	3.8	ng/L	EPA 521
Hexachlorobutadiene	NR	µg/L	EPA 625	N-Nitrosomorpholine	33	ng/L	EPA 521
Hexachlorocyclopentadiene	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	see report text	ng/L	EPA 537.1
Hexachloroethane	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	see report text	ng/L	EPA 537.1
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625	Gemfibrozil	<5	ng/L	LC-MS-MS
Isophorone	NR	µg/L	EPA 625	Iohexol	31000	ng/L	LC-MS-MS
Naphthalene	NR	µg/L	EPA 625	Sucralose	56000	ng/L	LC-MS-MS
Nitrobenzene	NR	µg/L	EPA 625	Sulfamethoxazole	<5	ng/L	LC-MS-MS
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625				

NR: Not Required (Annual Requirement, Phase II FOF, Attachment A, Page 26, Item 19) NA: Not analyzed

*Pursuant to the GRRP regulations, recharge water may be monitored in lieu of recycled water.

**PFOA is being analyzed weekly for the exceedance of the NL and is reported in Section 2A of this report

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	01/21/20	2.90	0.7	0.7	0.7	<0.5	<0.01	541
BRK-LYS-00	0	02/12/20	5.70	3.4	2.6	1.9	1.5	0.06	310
BRK-LYS-00	0	03/18/20	5.83	2.8	2.1	1.7	1.1	0.06	367
BRK-LYS-25	25	01/21/20	7.42	2.8	1.1	0.8	2.0	<0.01	278
BRK-LYS-25	25	02/12/20	2.75	<0.6	<0.2	<0.1	<0.5	<0.01	366
BRK-LYS-25	25	03/18/20	2.73	<0.6	<0.2	<0.1	<0.5	<0.01	333
Declez 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
DCZ2-LYS-00	0	01/09/20	7.54	1.0	0.3	0.3	0.7	<0.01	113
DCZ2-LYS-00	0	01/23/20	7.92	3.5	0.9	0.9	2.6	<0.01	471
DCZ2-LYS-00	0	02/06/20	10.24	5.5	1.8	1.7	3.8	0.14	652
DCZ2-LYS-00	0	02/20/20	13.20	5.2	1.5	1.5	3.7	<0.01	634
DCZ2-LYS-00	0	03/05/20	10.29	5.9	3.6	3.6	2.3	<0.01	727
DCZ2-LYS-00	0	03/17/20	5.08	1.3	0.5	0.4	0.9	0.07	616
DCZ2-LYS-25	25	01/09/20	2.64	<0.6	<0.2	<0.1	<0.5	<0.01	210
DCZ2-LYS-25	25	01/23/20	2.02	<0.6	0.5	<0.1	<0.5	<0.01	190
DCZ2-LYS-25	25	02/06/20	1.99	<0.6	<0.2	<0.1	<0.5	<0.01	206
DCZ2-LYS-25	25	02/20/20	1.95	0.6	<0.2	<0.1	0.6	<0.01	349
DCZ2-LYS-25	25	03/05/20	2.54	0.6	0.6	0.6	<0.5	<0.01	483
DCZ2-LYS-25	25	03/17/20	3.02	2.0	0.7	0.6	1.4	0.06	80

* 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. (applies to Regional Board only)

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
01/07/20	6.47	5.0	4.6	1.29	2.7	2.4
01/14/20	5.29	5.7	5.7	1.06	3.0	2.8
01/21/20	5.44	4.7	4.7	1.09	2.5	2.8
01/28/20	5.80	5.1	5.1	1.16	2.7	2.6
02/04/20	5.80	4.0	4.0	1.16	2.1	2.4
02/11/20	5.84	5.3	5.3	1.17	2.8	2.5
02/18/20	5.59	4.7	4.7	1.12	2.5	2.7
02/25/20	5.31	4.8	4.8	1.06	2.5	2.5
03/03/20	5.97	4.0	4.0	1.19	2.1	2.3
03/10/20	5.39	4.0	4.0	1.08	2.1	2.1
03/17/20	5.39	5.0	5.0	1.08	2.7	2.4
03/24/20	5.38	5.0	5.0	1.08	2.7	2.7
03/31/20	5.24	5.7	5.7	1.05	3.0	2.8

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 (RWQCB)
01/07/20	6.47	5.0	4.6	1.23	3.7	3.4
01/14/20	5.29	5.7	5.7	1.01	4.2	3.9
01/21/20	5.44	4.7	4.7	1.03	3.4	3.8
01/28/20	5.80	5.1	5.1	1.10	3.7	3.6
02/04/20	5.80	4.0	4.0	1.10	2.9	3.3
02/11/20	5.84	5.3	5.3	1.11	3.9	3.4
02/18/20	5.59	4.7	4.7	1.06	3.4	3.7
02/25/20	5.31	4.8	4.8	1.01	3.5	3.5
03/03/20	5.97	4.0	4.0	1.13	2.9	3.2
03/10/20	5.39	4.0	4.0	1.02	2.9	2.9
03/17/20	5.39	5.0	5.0	1.02	3.7	3.3
03/24/20	5.38	5.0	5.0	1.02	3.7	3.7
03/31/20	5.24	5.7	5.7	1.00	4.2	3.8

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 (RWQCB)
01/07/20	6.47	4.6	1.94	0.97	0.6	0.5
01/14/20	5.29	5.7	1.59	0.79	0.7	0.7
01/21/20	5.44	4.7	1.63	0.82	0.6	0.7
01/28/20	5.80	5.1	1.74	0.87	0.7	0.6
02/04/20	5.80	4.0	1.74	0.87	0.5	0.6
02/11/20	5.84	5.3	1.75	0.88	0.7	0.6
02/18/20	5.59	4.7	1.68	0.84	0.6	0.7
02/25/20	5.31	4.8	1.59	0.80	0.6	0.6
03/03/20	5.97	4.0	1.79	0.90	0.5	0.6
03/10/20	5.39	4.0	1.62	0.81	0.5	0.5
03/17/20	5.39	5.0	1.62	0.81	0.7	0.6
03/24/20	5.38	5.0	1.61	0.81	0.7	0.7
03/31/20	5.24	5.7	1.57	0.79	0.7	0.7

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 (RWQCB)
01/06/20	6.98	5.3	5.3	1.68	2.5	2.5
01/13/20	7.50	5.9	5.6	1.80	2.8	2.7
01/20/20	8.00	4.7	5.3	1.92	2.3	2.5
01/27/20	7.60	5.6	5.2	1.82	2.7	2.5
02/03/20	7.60	3.8	4.7	1.82	1.8	2.3
02/10/20	7.24	4.4	4.1	1.74	2.1	2.0
02/20/20	6.54	5.4	4.9	1.57	2.6	2.4
02/24/20	6.75	6.5	5.9	1.62	3.1	2.9
03/02/20	7.53	6.3	6.4	1.81	3.0	3.1
03/09/20	6.87	6.4	6.3	1.65	3.1	3.0
03/16/20	6.34	6.0	6.2	1.52	2.9	3.0
03/23/20	6.71	5.5	5.8	1.61	2.6	2.8
03/30/20	6.64	5.9	5.7	1.59	2.8	2.8

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the RP-4 1299 Pump Station

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

Blue font shows an exceedance TN limit of 5 mg/L for the Regional Board (current permit). However the DDW compliance point is at the recycled water with a TN limit of 10 mg/L (CAR comment letter). WEI is currently conducting a study to demonstrate that the 10 mg/L TN limit for the recycled water will not negatively impact Chino Basin. These changes will be incorporated into our future GWR permit.

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)
01/07/20	6.47	5.0	4.6	0.78	3.5	3.2
01/14/20	5.29	5.7	5.7	0.63	3.9	3.7
01/21/20	5.44	4.7	4.7	0.65	3.2	3.6
01/28/20	5.80	5.1	5.1	0.70	3.5	3.4
02/04/20	5.80	4.0	4.0	0.70	2.8	3.1
02/11/20	5.84	5.3	5.3	0.70	3.7	3.2
02/18/20	5.59	4.7	4.7	0.67	3.2	3.5
02/25/20	5.31	4.8	4.8	0.64	3.3	3.3
03/03/20	5.97	4.0	4.0	0.72	2.8	3.0
03/10/20	5.39	4.0	4.0	0.65	2.8	2.8
03/17/20	5.39	5.0	5.0	0.65	3.5	3.1
03/24/20	5.38	5.0	5.0	0.65	3.5	3.5
03/31/20	5.24	5.7	5.7	0.63	3.9	3.9

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)
01/07/20	6.47	4.6	4.4	0.78	1.2	1.1
01/14/20	5.29	5.7	5.7	0.63	1.4	1.3
01/21/20	5.44	4.7	4.7	0.65	1.2	1.3
01/28/20	5.80	5.1	5.1	0.70	1.3	1.2
02/04/20	5.80	4.0	4.0	0.70	1.0	1.1
02/11/20	5.84	5.3	5.3	0.70	1.3	1.2
02/18/20	5.59	4.7	4.7	0.67	1.2	1.3
02/25/20	5.31	4.8	4.8	0.64	1.2	1.2
03/03/20	5.97	4.0	4.0	0.72	1.0	1.1
03/10/20	5.39	4.0	4.0	0.65	1.0	1.0
03/17/20	5.39	5.0	5.0	0.65	1.3	1.1
03/24/20	5.38	5.0	5.0	0.65	1.3	1.3
03/31/20	5.24	5.7	5.7	0.63	1.4	1.3

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)
01/07/20	6.47	4.6	4.4	1.42	0.8	0.8
01/14/20	5.29	5.7	5.7	1.16	1.0	0.9
01/21/20	5.44	4.7	4.7	1.20	0.8	0.9
01/28/20	5.80	5.1	5.1	1.28	0.9	0.9
02/04/20	5.80	4.0	4.0	1.28	0.7	0.8
02/11/20	5.84	5.3	5.3	1.28	1.0	0.8
02/18/20	5.59	4.7	4.7	1.23	0.8	0.9
02/25/20	5.31	4.8	4.8	1.17	0.9	0.9
03/03/20	5.97	4.0	4.0	1.31	0.7	0.8
03/10/20	5.39	4.0	4.0	1.19	0.7	0.7
03/17/20	5.39	5.0	5.0	1.19	0.9	0.8
03/24/20	5.38	5.0	5.0	1.18	0.9	0.9
03/31/20	5.24	5.7	5.7	1.15	1.0	0.9

*The recycled water blend of RP-1 & RP-4 effluent is sampled at the RP-4 1299 Pump Station

**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.

Blue font shows an exceedance TN limit of 5 mg/L for the Regional Board (current permit). However the DDW compliance point is at the recycled water with a TN limit of 10 mg/L (CAR comment letter). WEI is currently conducting a study to demonstrate that the 10 mg/L TN limit for the recycled water will not negatively impact Chino Basin. These changes will be incorporated into the our future GWR permit.

Brooks Basin			
Date	BRK-LYS-00	BRK-LYS-00	BRK-LYS-00
	TOC (mg/L)	TN (mg/L)	EC (µmhos/cm)
01/21/20	2.90	0.7	541
02/12/20	5.70	3.4	310
03/18/20	5.83	2.8	367

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
01/21/20	7.42	<2.8	<2.8
02/12/20	2.75	<0.6	<1.7
03/18/20	2.73	<0.6	<0.6

Date	BRK-1/1	BRK-1/1	BRK-1/1
	TOC* (mg/L)	TN (mg/L)	EC (µmhos/cm)
Limit==>			16 mg/L
01/21/20	0.3	2.6	548
02/11/20	<0.3	2.6	556
03/18/20	<0.3	2.9	556

*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 (Mar 2020)	RWC _{Avg} (Mar 2020)	TOC _{Avg} Limit* (mg/L)	Jan 2020 TOC _{Avg} (mg/L)	Feb 2020 TOC _{Avg} (mg/L)	Mar 2020 TOC _{Avg} (mg/L)	1Q20 TN Limit** Compliance	Recharged Water Monitoring Plan
8 th Street	Sep-07	Dec-10	05/23/11	50%	151	24%	2.1	0.7	0.7	0.5	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%	177	36%	1.4	1.2	1.1	1.1	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%	140	15%	3.3	0.3	<0.3	<0.3	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	52	7%	7.1	2.3	2.0	2.8	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%	247	23%	2.2	1.8	1.7	1.6	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%	175	20%	2.5	1.1	1.1	1.0	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%	130	18%	2.8	0.7	0.7	0.7	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%	160	23%	2.2	1.7	1.7	1.6	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%	160	24%	2.1	0.9	0.8	0.8	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%	115	28%	1.8	1.3	1.2	1.2	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.

**TN limit is 5 mg/L on a two-sample average.

Table 2-7a
Diluent Water Monitoring*: Stormwater

Constituent	Cucamonga Creek @ Turner1&2 03/10/20	Day Creek @ Lower Day 03/11/20	Deer Creek @ Turner 3&4 03/10/20	Etiwanda Creek @ San Savaine 5 03/18/20	San Antonio Channel @ Montclair 03/11/20	W. Cucamonga Creek @ Ely 03/10/20	Max Level to Trigger Source Water Evaluation	Unit	Method
NO ₂ -N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1	mg/L	EPA 300.0
NO ₃ -N	2.0	0.5	0.6	0.3	0.7	1.0	10	mg/L	EPA 300.0
TDS	202	90	70	130	234	58	1000	mg/L	SM 2540C
Total Coliform	1600	1600	1600	500	>1600	1600	-	pn/100l	SM 9221B
Oil & Grease	<1	5	2	<1	5	3	-	mg/L	EPA 1664A
Inorganic Chemicals									
Aluminum	44	884	2280	734	138	1242	1000	µg/L	EPA 200.7
Antimony	<1	1	3	<1	<1	2	6	µg/L	EPA 200.8
Arsenic	2	<2	<2	<2	<2	<2	10	µg/L	EPA 200.8
Asbestos	<6.87	<6.87	<6.87	<6.87	<1.86	<6.87	7	MFL	EPA 100.2
Barium	58	26	51	24	35	36	1000	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.7
Chromium	1.8	1.3	4.9	<0.5	<0.5	3.5	50	µg/L	EPA 200.7
Chromium VI	2.3	0.6	0.7	0.4	0.3	1.0	10	µg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	<20	150	µg/L	ASTM D7284/OIA-1677
Fluoride	0.2	0.2	0.1	0.2	0.2	0.1	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Nickel	1	2	4	2	2	4	100	µg/L	EPA 200.7
Perchlorate	<4	<4	<4	<4	<4	<4	6	µg/L	EPA 314
Selenium	<2	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<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	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Total Xylenes	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.005	<0.005	<0.005	<0.005	<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	<0.1	2	µg/L	EPA 505
Atrazine	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Bentazon	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 515.4
Benzo(a)pyrene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.2	µg/L	EPA 525.2
Carbofuran	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	18	µg/L	EPA 531.2
Chlordane	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	µg/L	EPA 505
2,4-D	<0.1	1.2	1.6	0.2	<0.1	<0.1	70	µg/L	EPA 515.4
Dalapon	<1	<1	<1	<1	<2	<3	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	4	µg/L	EPA 525.2
Dinoseb	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	7	µg/L	EPA 515.4
Diquat	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	20	µg/L	EPA 549.2
Endothall	<5	<5	<5	<5	<5	<5	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2	µg/L	EPA 505
Ethylene Dibromide	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	µg/L	EPA 504.1
Glyphosate	<6	10	9	<6	<6	24	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Heptachlor Epoxide	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	µg/L	EPA 505
Hexachlorobenzene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1	µg/L	EPA 525.2
Hexachlorocyclopentadiene	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	50	µg/L	EPA 525.2
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 505

Table 2-7a
Diluent Water Monitoring*: Stormwater

Constituent	Cucamonga Creek @ Turner1&2 03/10/20	Day Creek @ Lower Day 03/11/20	Deer Creek @ Turner 3&4 03/10/20	Etiwanda Creek @ San Sevaine 5 03/18/20	San Antonio Channel @ Montclair 03/11/20	W. Cucamonga Creek @ Ely 03/10/20	Max Level to Trigger Source Water Evaluation	Unit	Method
Methoxychlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	30	µg/L	EPA 505
Molinate	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20	µg/L	EPA 525.2
Oxamyl	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.04	<0.04	<0.04	0.07	0.46	1	µg/L	EPA 515.4
Picloram	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	500	µg/L	EPA 515.4
PCB 1016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	0.5	µg/L	EPA 505
PCB 1221	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1232	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1242	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1248	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1254	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
PCB 1260	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	µg/L	EPA 505
Simazine	<0.05	<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	<0.2	70	µg/L	EPA 525.2
Toxaphene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3	µg/L	EPA 505
2,3,7,8-TCDD (Dioxin)	<5	<3.92	<3.88	<4.02	<3.96	<3.88	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Disinfection Byproducts									
Total Trihalomethanes (TTHMs)	<2	<2	<2	<2	<2	<2	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	<2	<2	<2	8	<2	60	µg/L	SM 6251B
Bromate	<1	1	2	1	<1	<1	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals									
Copper	<3	10	24	<3	9	24	1300	µg/L	EPA 200.7
Lead	<0.5	1.0	4.3	0.5	<0.5	6.5	15	µg/L	EPA 200.8
Radionuclides									
Combined Radium-226 & Radium 228	<1	<1	<1	<1	<1	<1	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	<3	4	<3	5	3	<3	15	pCi/L	EPA 900.0/SM7110C
Tritium	<345	<349	<363	<361	<371	<340	20,000	pCi/L	EPA 906.0
Strontium-90	<3	<3	<3	<3	<3	<3	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	<3	5	7	<3	4	5	50	pCi/L	EPA 900.0
Uranium	<1	<1	<1	1.9	2.0	<1	20	pCi/L	EPA 200.8
Chemicals w/ State Notification Levels									
Boron	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	160	µg/L	EPA 524.2
Chlorate	14	<10	59	<10	<10	13	800	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	140	µg/L	EPA 524.2
Diazinon	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	µg/L	EPA 525.2
Dichlorodifluoromethane (Freon 12)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1000	µg/L	EPA 524.2
1,4 - Dioxane	<1	<1	<1	<1	<1	<1	1	µg/L	EPA 522
Ethylene glycol	<5	<5	<5	<5	<5	<5	14	mg/L	EPA 8015B
Formaldehyde	<5	8	21	<5	<5	25	100	µg/L	EPA 556
HMX	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	350	µg/L	EPA 8330B
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	770	µg/L	EPA 524.2
Manganese	1	18	55	14	10	45	500	µg/L	EPA 200.8
Methyl isobutyl ketone (MIBK)	<2	<2	<2	<2	<2	<2	120	µg/L	EPA 524.2
Naphthalene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	<2	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-nitrosodimethylamine (NDMA)	<2	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-Nitrosodi-n-propylamine (NDPA)	<2	<2	<2	<2	<2	<2	10	ng/L	EPA 521
PFOS	<2.0	3.0	6.0	<2.0	2.7	6.2	6.5	ng/L	EPA 537.1
PFOA	<2.0	9.4	8.5	2.5	6.5	5.1	5.1	ng/L	EPA 537.1
Propachlor	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	90	µg/L	EPA 525.2
N-propylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
RDX	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	µg/L	EPA 8330B
Tertiary butyl alcohol	<2	<2	<2	<2	<2	<2	12	µg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	330	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	330	µg/L	EPA 524.2
2,4,6-Trinitrotoluene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	µg/L	EPA 8330B
Vanadium	23	<5	7	<5	<5	<5	50	µg/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals									
Aluminum	44	884	2280	734	138	1242	200	µg/L	EPA 200.7
Corrosivity	0.6	-1.9	-1	-0.6	1.2	-2.0	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS)	<0.1	0.3	0.4	<0.1	0.2	0.6	0.5	mg/L	SM 5540C/EPA 425.1
Iron	<15	<15	<15	<15	<15	<15	300	µg/L	EPA 200.7
Manganese	1	18	55	14	10	45	50	µg/L	EPA 200.7
Odor--Threshold	2	8	8	2	2	8	--	TON	SM 2150B
Silver	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	100	µg/L	EPA 200.7
Thiobencarb	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 525.2
Zinc	5	34	131	7	14	239	5000	µg/L	EPA 200.7

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

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

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

Constituent	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Unit
Silica	Not Reported / Out of Service	No Imported Water Delivery	No Imported Water Delivery										mg/L
Calcium													mg/L
Magnesium													mg/L
Sodium													mg/L
Potassium													mg/L
Carbonate													mg/L
Bicarbonate													mg/L
Sulfate													mg/L
Chloride													mg/L
Nitrate													mg/L
Fluoride													mg/L
Total Dissolved Solids													mg/L
Total Hardness as CaCO ₃													mg/L
Total Alkalinity as CaCO ₃													mg/L
Free Carbon Dioxide													mg/L
pH													unit
Specific Conductance													µmho/cm
Color													CU
Turbidity													NTU
Temperature													°C
Bromide													mg/L
Total Organic Carbon													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
	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
Declerz 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
	601039	Inland Empire Utilities Agency - 8TH-2/2	2460 downgradient	576-616	4	Active	Monitoring
Brooks Basins	1901719	City of Pomona P-10	1983 downgradient	295-784	20	Active	Municipal
	1901713	City of Pomona P-04	2620 downgradient	254-338, & 403-452	NA	Inactive	Municipal
	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
	601049	Inland Empire Utilities Agency - BRK-2/2	1305 downgradient	560-600	4	Active	Monitoring
San Sevaline Basins	600905	Cucamonga Valley Water District No. 39	8300-13170 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601115	Inland Empire Utilities Agency - SS-1/1	~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
	600369	Unitex CalDOT	~ 2850 downgradient	400-684	NA	NA	Irrigation
Victoria Basin	600905	Cucamonga Valley Water District No. 39	4329 downgradient	750-870, 940-960, 970-1060, & 1080-1130,	20	Active	Municipal
	601033	Cucamonga Valley Water District No. 43**	8300 downgradient	650-800	32-42	Active	Municipal
	601117	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~39-116 downgradient	570-610	4	Active	Monitoring
	--	Inland Empire Utilities Agency - VCT-1/1 and 1/2	~ 2000 downgradient	570-610	4	Active	Monitoring
Ely Basin	601003	Ely Basin MW-1, Philadelphia Well (Casing 3)	100 downgradient	280 - 300	2	Active	Monitoring
	601004	Ely Basin MW-2, Walnut Well (Casing 2)	3050 downgradient	290 - 310	4	Active	Monitoring
	3600975	Riverside Drive Well (43840-CWW)	6046 downgradient	NA	NA	Active	Private Irrigation
	600134	Bishop Of San Bernardino Corp. - DOM	6500 downgradient	NA	NA	Active	Private Domestic

Notes:

- NA = Data not available
- CBWM ID = Chino Basin Water Master well identification number
- bgs = below ground surface
- * = Ontario Well No. 38 replaced Ontario Well No. 19, which is inactive
- ** = Cucamonga Valley Water District No. 43 replaced CVWD Well Nos. 35 & 36, which are inactive.
- *** = 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 Coliform (MPN/100mL)	pH	EC (µmho/cm)	Al (µg/L)	Color (units)	Cu (µg/L)	Corrosivity Index (SI)	Foaming Agents (mg/L)	Fe (µg/L)	Mn (µg/L)	MTBE (µg/L)	Odor Threshold (TON)	Ag (µg/L)	Thiobencarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	TDS (mg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	Nitrogen, Total (mg/L)	NO ₃ -N (mg/L)	NO ₂ -N (mg/L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Co. - F7a	02/20/20	<0.10	<1.1	7.3	406	<20	<3	<2	-0.2	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	<20	250	12	165	18	16	6.8	<0.05	6.3	7.9
	California Speedway - Infield Well	02/20/20	<0.10	<1.1	7.2	628	<20	5	<2	-0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.4	<20	382	48	250	24	57	8.3	<0.05	8.3	5.4
	California Speedway 2	02/20/20	<0.10	<1.1	7.1	489	<20	5	<2	-0.5	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.4	<20	318	24	197	20	33	7.0	<0.05	7.0	6.5
	BH-1/2*	01/22/20	0.60	<1.1	7.2	578	<20	5	<2	-0.3	<0.1	<20	<2	<0.5	1	<0.5	<0.2	0.5	<20	372	83	219	24	33	4.5	<0.05	2.5	5.1
Turner	T-1/2*	02/11/20	0.52	<1.1	6.9	662	<20	5	<2	-0.4	<0.1	<20	<2	<0.5	2	<0.5	<0.2	0.6	<20	406	74	218	52	15	<0.6	<0.05	0.1	1.6
	T-2/1*	01/28/20	<0.10	<1.1	7.2	530	<20	5	<2	-0.4	<0.1	<20	<2	<0.5	1	<0.5	<0.2	2.5	<20	316	49	163	50	21	<0.6	<0.05	0.3	2.0
	T-2/2*	01/28/20	0.40	<1.1	7.2	524	<20	<3	<2	-0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.3	<20	306	53	145	50	21	<0.6	<0.05	0.2	1.9
RP3	Alcoa MW1*	02/24/20	<0.10	<1.1	7.0	696	<20	5	<2	-0.2	<0.1	<20	<2	<0.5	1	<0.5	<0.2	2.3	<20	430	40	271	32	47	21.1	<0.05	19.1	7.4
	Alcoa MW3*	01/20/20	0.39	<1.1	7.1	1180	<20	<3	<2	0.1	<0.1	<20	<2	<0.5	1	<0.5	<0.2	0.2	<20	808	156	445	52	62	20.7	<0.05	20.7	5.6
	RP3-1/1*	01/22/20	0.75	<1.1	6.9	636	<20	10	4.3	-0.7	<0.1	<20	9	<0.5	<1	<0.5	<0.2	7.3	<20	396	81	154	79	36	3.2	<0.05	3.2	2.8
	Southridge JHS*	02/12/20	0.54	<1.1	6.7	928	<20	5	3.0	-0.4	<0.1	<20	3	<0.5	2	<0.5	<0.2	0.9	<20	610	92	332	56	75	15.4	<0.05	15.4	5.3
8th Street	Ontario Well No. 35	03/03/20	<0.10	<1.1	7.3	348	<20	5	<2	-0.2	<0.1	<20	<2	<0.5	1	<0.5	<0.2	0.1	<20	218	11	138	22	23	3.1	<0.05	3.1	4.3
	8TH-1/1*	01/29/20	<0.10	<1.1	7.1	494	<20	5	<2	-0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	2.1	<20	294	46	234	16	27	2.9	<0.05	2.9	4.6
	8TH-1/2*	01/29/20	<0.10	<1.1	7.0	462	<20	<3	<2	-0.6	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	3.0	<20	280	61	184	24	22	1.7	<0.05	1.7	4.4
	8TH-2/1*	01/30/20	0.30	<1.1	7.0	486	<20	<3	<2	-0.5	<0.1	<20	<2	<0.5	1	<0.5	<0.2	0.9	<20	294	24	206	15	19	8.0	<0.05	8.0	8.0
	8TH-2/2*	01/30/20	<0.10	<1.1	7.0	481	<20	25	<2	-0.7	<0.1	<20	15	<0.5	2	<0.5	<0.2	23.0	<20	300	60	202	17	30	4.4	<0.05	4.4	6.9
Brooks	Pomona Well No. 10	02/03/20	<0.10	<1.1	7.5	543	<20	<3	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	<20	322	43	232	12	<0.5	7.4	<0.05	7.4	6.0
	BRK-1/1*	01/21/20	0.33	<1.1	7.1	548	<20	<3	<2	sv	<0.1	<20	<2	<0.5	1	<0.5	<0.2	1.8	<20	342	79	196	37	35	2.6	<0.05	2.6	4.0
	BRK-1/2*	01/21/20	<0.10	<1.1	7.1	633	<20	<3	<2	-0.6	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.5	<20	408	11	275	15	12	21.9	<0.05	21.9	5.0
	BRK-2/1*	01/27/20	<0.10	<1.1	7.0	579	<20	35	<2	-0.3	<0.1	433	7	<0.5	1	<0.5	<0.2	50.0	<20	368	46	276	12	37	7.9	<0.05	7.9	4.4
	BRK-2/2*	01/27/20	<0.10	<1.1	7.3	435	<20	5	<2	-0.3	<0.1	<20	7	<0.5	2	<0.5	<0.2	0.5	<20	282	14	146	31	30	11.7	<0.05	11.7	3.6
Ely	Ely Basin MW2 Walnut St.*	02/24/20	0.59	<1.1	7.1	897	<20	5	<2	-0.3	<0.1	<20	20	<0.5	1	<0.5	<0.2	0.2	<20	510	76	386	29	58	18.3	<0.05	18.3	6.0
	Riverside Well (43840-CWW)*	02/19/20	<0.10	<1.1	7.4	581	<20	<3	<2	0.0	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	35	350	31	231	21	33	10.4	<0.05	10.4	6.7
	Bishop of SB Corp. - DOM	02/19/20	<0.10	<1.1	7.4	808	<20	<3	<2	0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	23	496	38	351	24	61	19.3	<0.05	19.3	4.9
Victoria & San Sevaine	SS-1/1*	01/20/20	0.39	<1.1	7.0	376	<20	<3	<2	-0.9	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	2.5	<20	256	52	141	19	18	2.3	<0.05	2.3	4.7
	SSV-2*	01/20/20	0.49	<1.1	7.5	362	<20	20	<2		0.21	<20	12	<0.5	2	<0.5	<0.2	4.8	<20		31	133	27	25	1.2	<0.05	1.2	4.0
	VCT-1/1*	02/13/20	1.40	<1.1	6.7	556	<20	5	<2	-0.8	<0.1	<20	<2	<0.5	1	<0.5	<0.2	1.7	<20	390	88	236	23	32	1.4	<0.05	1.4	3.2
	VCT-2/2	02/13/20	0.59	345	6.8	344	<20	10	<2	-0.9	<0.1	<20	<2	<0.5	2	<0.5	<0.2	1.7	<20	242	18	151	19	13	5.3	<0.05	5.3	4.6
	CVWD Well No. 39	02/06/20	<0.10	<1.1	7.4	293	<20	<3	<2	-0.5	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.5	<20	192	6	105	22	12	2.2	<0.05	2.2	8.0
	CVWD Well No. 43	02/06/20	<0.10	<1.1	7.2	346	<20	<3	<2	-0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	<20	214	10	132	20	16	3.5	<0.05	3.5	7.2
	Unitex 91090	02/20/20	<0.10	<1.1	7.2	403	<20	5	<2	-0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.3	<20	256	23	164	15	28	2.3	<0.05	2.3	7.7
Declez	JCSD Well No. 13	02/18/20	<0.10	<1.1	7.7	691	<20	<3	<2	0.4	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	<20	422	96	254	29	30	7.9	<0.05	7.9	4.5
	JCSD Well No. 19	02/18/20	<0.10	<1.1	7.8	373	<20	5	<2	0.1	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.1	<20	228	13	128	26	15	4.4	<0.05	4.4	5.1
	DCZ-1/1*	01/23/20	0.66	<1.1	7.2	578	<20	20	<2	-0.4	<0.1	<20	5	<0.5	1	<0.5	<0.2	17.0	<20	364	88	213	33	31	1.3	<0.05	1.3	0.4
	DCZ-2*	02/12/20	1.19	<1.1	7.3	505	<20	<3	<2	-0.3	<0.1	<20	<2	<0.5	<1	<0.5	<0.2	0.2	202	320	44	162	36	36	8.9	<0.05	8.9	6.5
	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				

* Total dissolved metals reported for these wells. The remaining wells report total recoverable metals values.

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	2.7	2.4	2.2	3.7	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	21	306	6	330	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	1.5	<0.5	<0.5	1.6	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	10.0	5.5	<0.5	8.9	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	<0.25	<0.25	<0.25	<0.25	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
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	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	OIA-1677, DW
2,3,7,8-TCDD Scan	ND	ND	ND	ND	µg/L	EPA 1613B / EPA 625

ND: Non-detect

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	<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	5.6	72.6	5.7	µg/L	EPA 200.8
Copper	0.9	<0.5	1.6	0.7	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	26	4	152	34	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	3	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	8.1	<0.5	<0.5	<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	1.2	<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	<0.25	<0.25	<0.25	<0.25	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
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	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	OIA-1677, DW
2,3,7,8-TCDD	ND	ND	ND	ND	µg/L	EPA 1613B / EPA 625

ND: Non-detect

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	<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	3.1	<0.5	3.0	µg/L	EPA 200.8
Copper	0.6	0.9	1.0	1.3	µg/L	EPA 200.8
Lead	<0.5	<0.5	<0.5	1.2	µg/L	EPA 200.8
Mercury	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 245.2
Nickel	22	13	203	5	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	192	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	30.1	2.8	3.3	<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	<0.25	<0.25	<0.25	<0.25	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	15	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	OIA-1677, DW
2,3,7,8-TCDD	ND	ND	ND	ND	µg/L	EPA 1613B / EPA 625

ND: Non-detect

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	2.5	3.0	<0.5	0.8	µg/L	EPA 200.8
Copper	4.3	3.0	1.7	1.6	0.56	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	171	6	16	12	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	1	5	<1	<1	µg/L	EPA 200.8
EPA Priority Pollutants - Volatile Organics						
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
2-Chloroethyl vinyl ether	<1	<1	<1	<1	µg/L	EPA 524.2/EPA 624
Benzene	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2/EPA 624
Bromodichloromethane	<0.5	<0.5	<0.5	<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	41.6	<0.5	<0.5	<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	<0.25	<0.25	<0.25	<0.25	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	OIA-1677, DW
2,3,7,8-TCDD	ND	ND	ND	ND	µg/L	EPA 1613B / EPA 625

ND: Non-detect

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	0.9	1.9	0.9	2.1	µg/L	EPA 200.8
Copper	0.6	0.7	1.0	1.0	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	6	31	5	5	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	2	2	2	4	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	3.0	<0.5	5.2	<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	<0.25	<0.25	<0.25	<0.25	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	9.5	<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	OIA-1677, DW
2,3,7,8-TCDD	ND	ND	ND	ND	µg/L	EPA 1613B / EPA 625

ND: Non-detect

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
Apr-19	0	0	0	0	0	0	0	0	0	11	0	3	22	74	0	2	0	17	1	380	0	266	106	0	0	18	0	0	311	
May-19	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	6	0	0	18	1	0	0	6	0	453	0	303	181	0	0	0	0	0	333	
2Q19 Total	0	0	0	0	0	0	0	894	0	0	152	0	64	103	145	0	22	26	169	47	1180	1	767	388	46	0	18	0	0	906
Jul-19	0	0	116	0	0	63	0	800	0	0	6	0	0	16	0	0	344	0	4	0	292	35	184	101	0	0	344	0	0	167
Aug-19	0	0	41	0	0	365	0	623	0	359	4	0	0	11	22	67	401	0	5	0	74	105	59	29	0	67	401	0	112	148
Sep-19	690	0	0	0	92	359	0	122	0	523	3	0	1	12	0	21	445	0	5	0	155	237	38	26	133	21	445	0	51	51
3Q19 Total	690	0	157	0	92	788	0	1545	0	882	13	0	1	39	22	88	1190	0	14	0	521	376	281	156	133	88	1190	0	163	367
Oct-19	273	0	0	0	12	203	82	0	0	185	3	0	0	9	3	24	555	0	5	0	61	252	184	164	253	24	555	0	0	122
Nov-19	141	0	0	0	0	104	150	115	0	63	111	53	70	136	268	11	682	155	253	63	54	93	65	87	186	11	682	0	36	76
Dec-19	0	0	0	0	0	3	108	57	0	0	180	56	160	151	443	30	805	211	322	117	0	24	31	0	0	30	805	0	0	27
4Q19 Total	413	0	0	0	12	309	340	172	0	249	294	109	230	297	714	65	2042	366	579	179	116	370	280	251	439	65	2042	0	36	224
Jan-20	0	0	0	0	0	3	47	53	0	0	5	0	4	9	5	36	371	31	36	0	69	46	5	72	114	36	371	0	0	36
Feb-20	0	0	0	0	0	0	0	0	0	0	19	0	0	19	3	15	456	8	252	0	68	24	54	49	277	15	456	0	0	69
Mar-20	0	0	0	0	0	0	0	0	0	0	157	81	159	190	581	74	623	269	296	78	9	39	69	27	107	74	623	0	0	87
1Q20 Total	0	0	0	0	0	3	47	53	0	0	181	81	163	217	589	125	1449	309	584	78	145	109	129	148	498	125	1449	0	0	191

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)
2Q19	Apr-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,257)	(892,616)
	May-19	0.0	0.6	230	0	13.0	380	(1,867)	(32,258)	(892,658)
	Jun-19	42.6	0.5	170	0	13.0	380	(1,825)	(32,237)	(883,837)
3Q19	Jul-19	51.1	0.3	220	0	13.0	380	(1,774)	(32,217)	(869,991)
	Aug-19	33.1	0.3	220	0	13.0	380	(1,741)	(32,205)	(861,008)
	Sep-19	0.0	0.3	220	0	13.0	380	(1,741)	(32,205)	(861,008)
4Q19	Oct-19	0.0	0.2	140	0	13.0	380	(1,741)	(32,205)	(861,008)
	Nov-19	0.0	0.2	140	2	13.0	380	(1,742)	(32,230)	(861,758)
	Dec-19	0.0	0.2	140	0	13.0	380	(1,742)	(32,230)	(861,758)
1Q20	Jan-20	0.0	0.2	140	0	13.0	380	(1,742)	(32,230)	(861,758)
	Feb-20	0.0	0.2	140	0	13.0	380	(1,742)	(32,230)	(861,758)
	Mar-20	0.0	0.2	140	0	13.0	380	(1,742)	(32,230)	(861,758)

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)
2Q19	Apr-19	0.0	0.6	230	0	12.0	320	387	(32,428)	(226,614)
	May-19	0.0	0.6	230	0	12.0	320	387	(32,428)	(226,614)
	Jun-19	132.4	0.5	170	0	12.0	320	519	(32,350)	(198,847)
3Q19	Jul-19	137.2	0.3	220	0	12.0	320	656	(32,294)	(161,611)
	Aug-19	132.6	0.3	220	0	12.0	320	789	(32,245)	(125,623)
	Sep-19	136.2	0.3	220	0	12.0	320	925	(32,195)	(88,658)
4Q19	Oct-19	137.1	0.2	140	0	12.0	320	1,062	(32,162)	(64,980)
	Nov-19	138.6	0.2	140	0	12.0	320	1,201	(32,130)	(41,042)
	Dec-19	126.9	0.2	140	0	12.0	320	1,328	(32,100)	(19,125)
1Q20	Jan-20	0.0	0.2	140	0	12.0	320	1,328	(32,100)	(19,125)
	Feb-20	0.0	0.2	140	0	12.0	320	1,328	(32,100)	(19,125)
	Mar-20	0.0	0.2	140	0	12.0	320	1,328	(32,100)	(19,125)

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)
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)
3Q19	Jul-19	132.1	0.3	220	0	6.5	320	(3,331)	(45,240)	(783,443)
	Aug-19	132.0	0.3	220	0	6.5	320	(3,199)	(45,191)	(747,618)
	Sep-19	127.3	0.3	220	0	6.5	320	(3,071)	(45,144)	(713,068)
4Q19	Oct-19	5.4	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)
	Nov-19	0.0	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)
	Dec-19	0.0	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)
1Q20	Jan-20	0.0	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)
	Feb-20	0.0	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)
	Mar-20	0.0	0.2	140	0	6.5	320	(3,066)	(45,143)	(712,136)

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

Cells shaded in grey reflect most recent lab values.

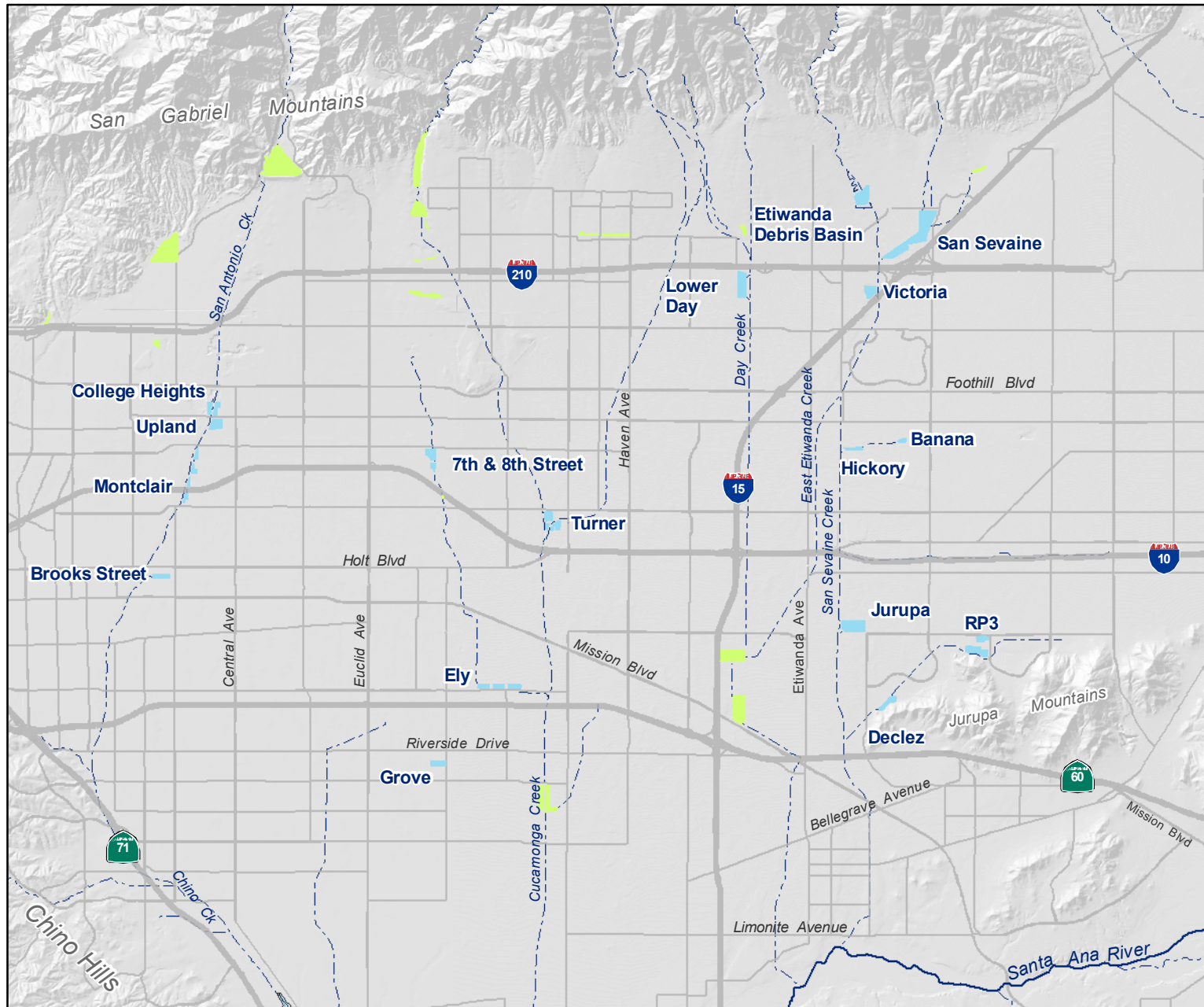
Table 6-1
MVWD ASR Project - TIN/TDS Mass Balance

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)
2Q19	Apr-19	0.0	0.6	230	13	18.0	320	(2,916)	(79,967)	(1,345,467)
	May-19	0.0	0.6	230	0	18.0	320	(2,916)	(79,967)	(1,345,467)
	Jun-19	93.3	0.5	170	0	18.0	320	(2,823)	(79,912)	(1,325,900)
3Q19	Jul-19	137.4	0.3	220	0	18.0	320	(2,685)	(79,856)	(1,288,610)
	Aug-19	136.5	0.3	220	0	18.0	320	(2,549)	(79,805)	(1,251,563)
	Sep-19	139.8	0.3	220	0	18.0	320	(2,409)	(79,754)	(1,213,621)
4Q19	Oct-19	134.7	0.2	140	0	18.0	320	(2,275)	(79,730)	(1,190,503)
	Nov-19	129.0	0.2	140	0	18.0	320	(2,146)	(79,700)	(1,168,224)
	Dec-19	84.2	0.2	140	0	18.0	320	(2,061)	(79,680)	(1,153,682)
1Q20	Jan-20	0.0	0.2	140	0	18.0	320	(2,061)	(79,680)	(1,153,682)
	Feb-20	0.0	0.2	140	0	18.0	320	(2,061)	(79,680)	(1,153,682)
	Mar-20	0.0	0.2	140	0	18.0	320	(2,061)	(79,680)	(1,153,682)

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)
2Q19	Apr-19		(7,980)	(190,018)	(3,309,390)
	May-19		(7,980)	(190,019)	(3,309,432)
	Jun-19		(7,591)	(189,792)	(3,227,879)
3Q19	Jul-19		(7,133)	(189,607)	(3,103,655)
	Aug-19		(6,699)	(189,446)	(2,985,812)
	Sep-19		(6,296)	(189,297)	(2,876,356)
4Q19	Oct-19		(6,019)	(189,240)	(2,828,627)
	Nov-19		(5,753)	(189,203)	(2,783,160)
	Dec-19		(5,542)	(189,154)	(2,746,700)
1Q20	Jan-20		(5,542)	(189,154)	(2,746,700)
	Feb-20		(5,542)	(189,154)	(2,746,700)
	Mar-20		(5,542)	(189,154)	(2,746,700)



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

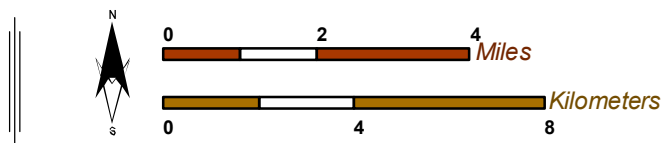
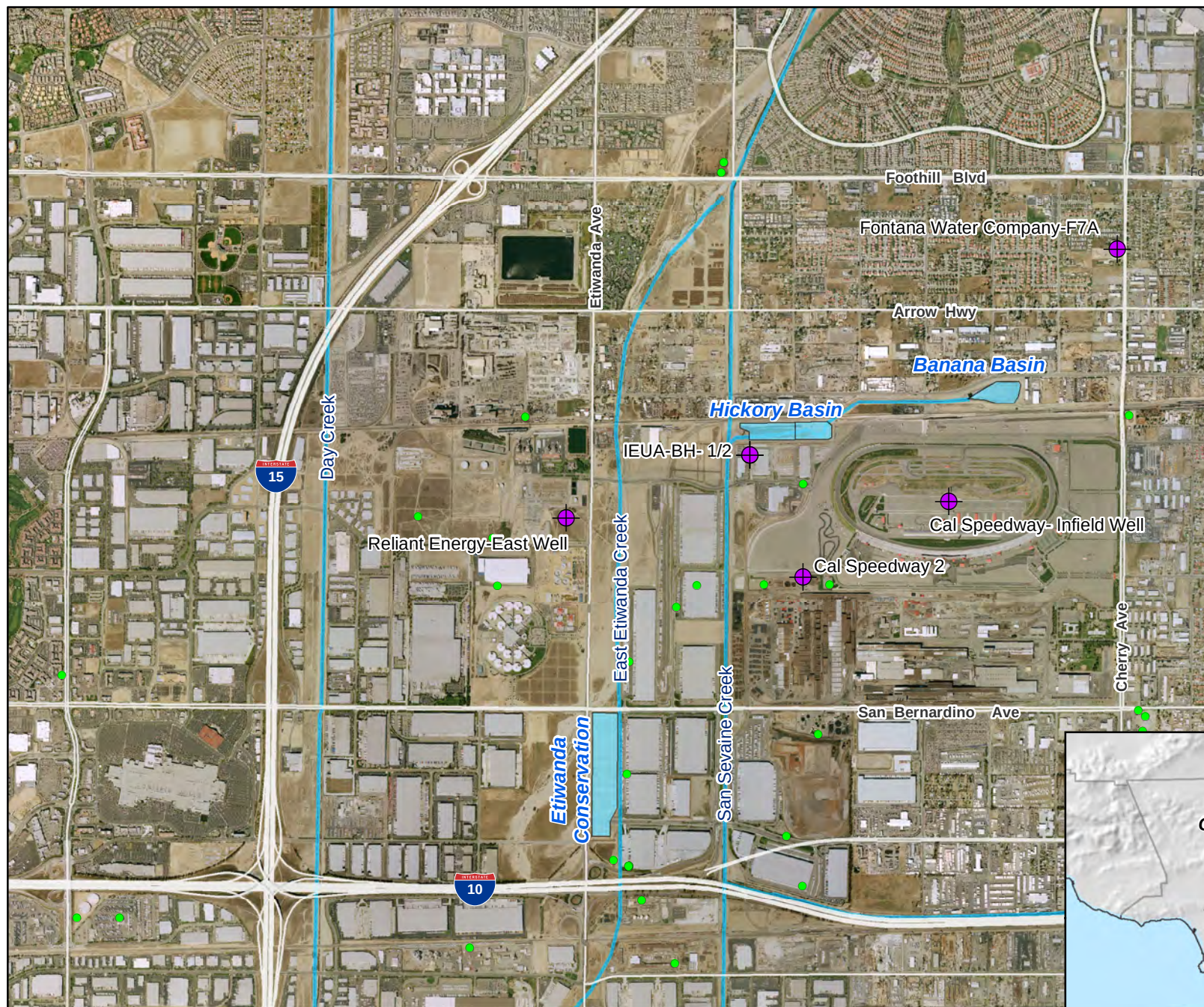
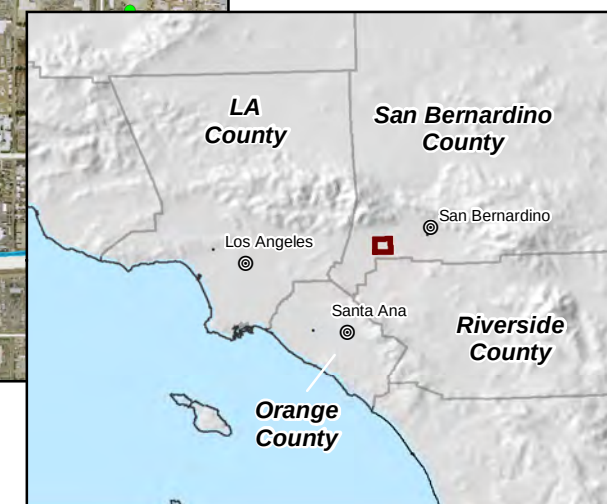


Figure 1-1



Main Map Features

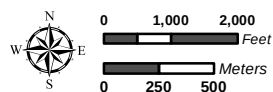
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

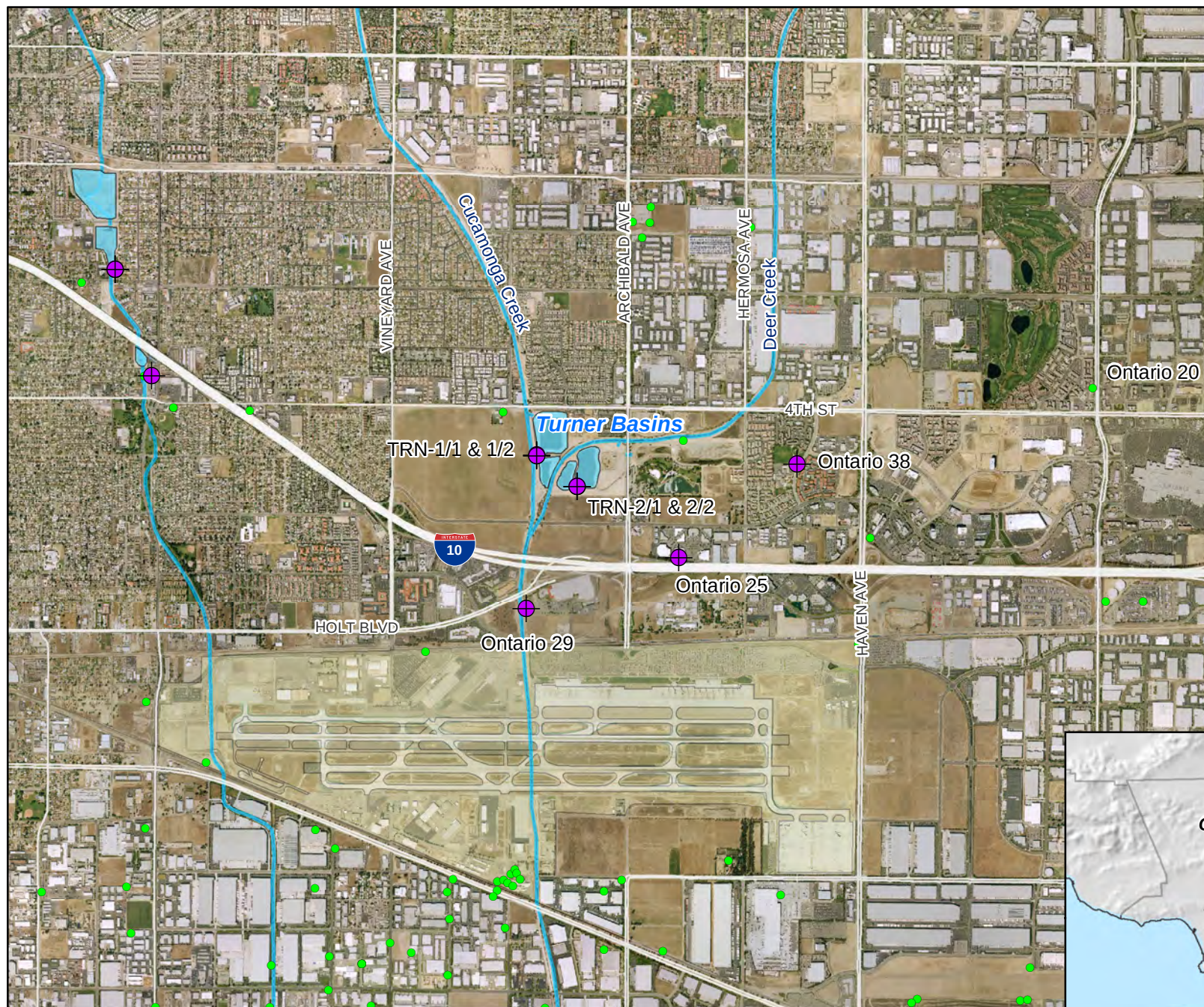


Monitoring Well Network Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





Main Map Features

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

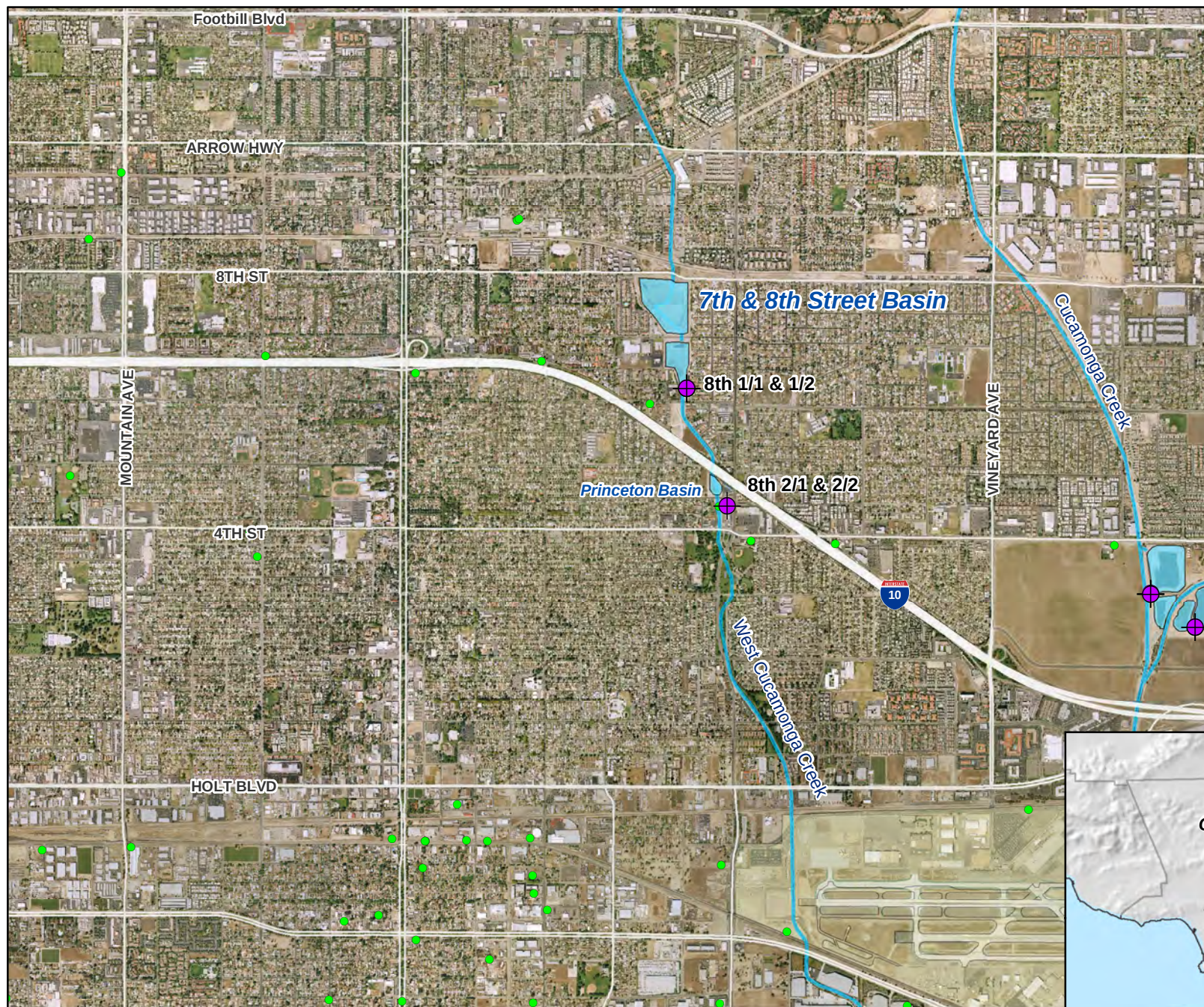


Monitoring Well Network
Turner Basins

Figure 2-2

Recycled Water Recharge Program





Main Map Features

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



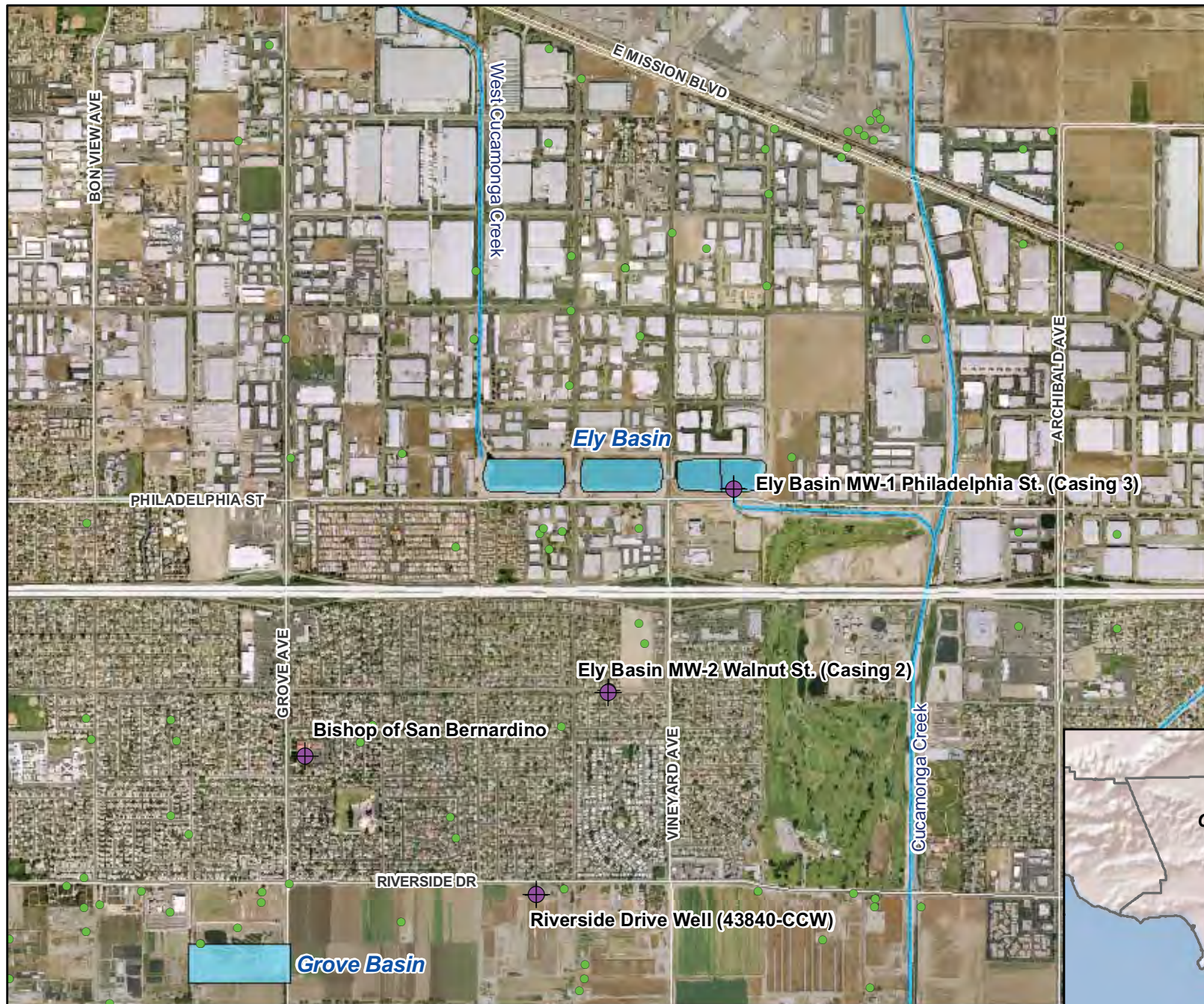
Monitoring Well Network

7th and 8th Street Basin

Figure 2-3

Recycled Water Recharge Program





Main Map Features

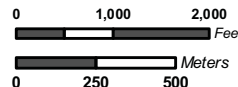
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

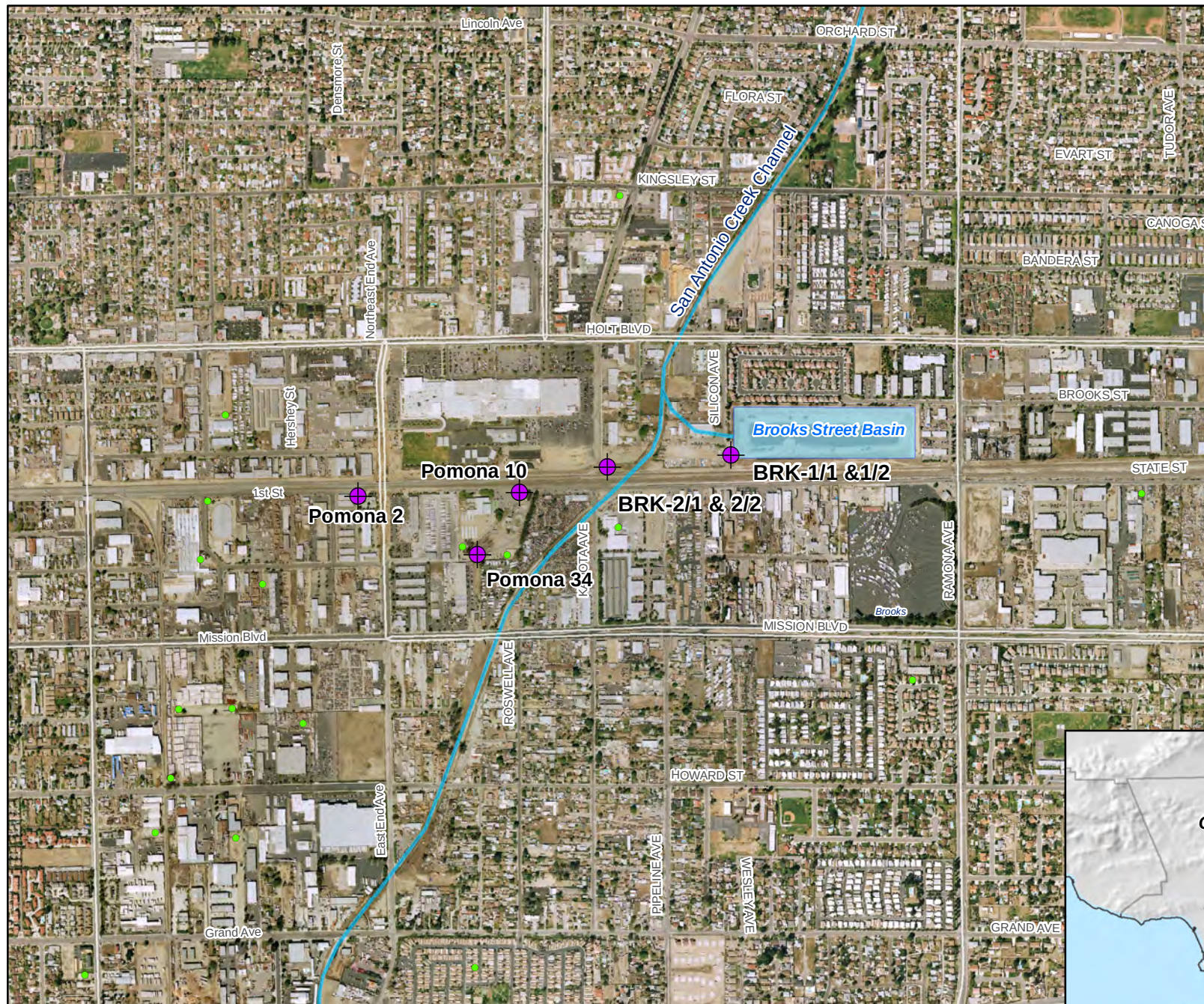


Monitoring Well Network
Ely Basins

Figure 2-4

Recycled Water Recharge Program





Main Map Features

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

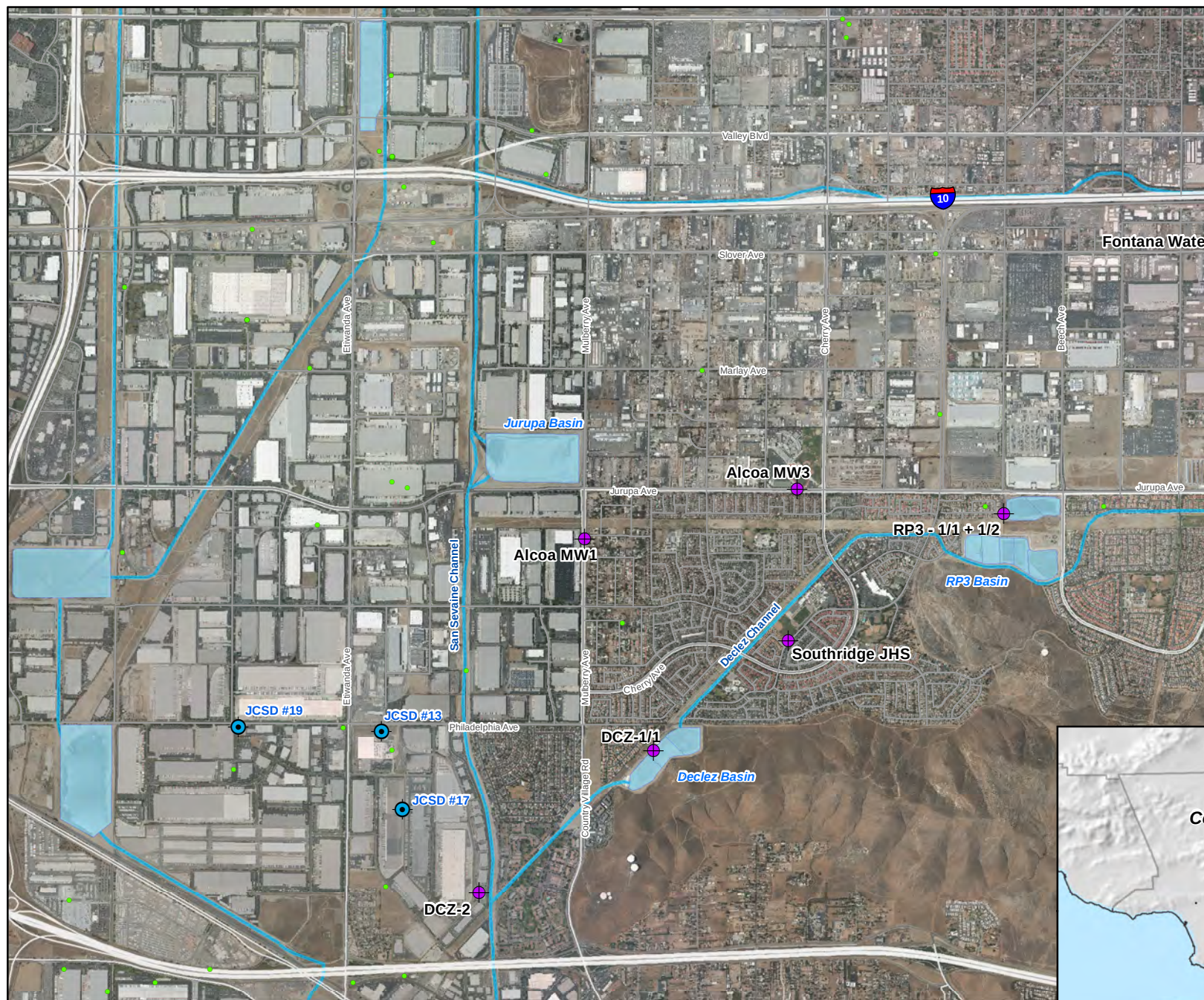


Monitoring Well Network
Brooks Street Basin

Figure 2-5

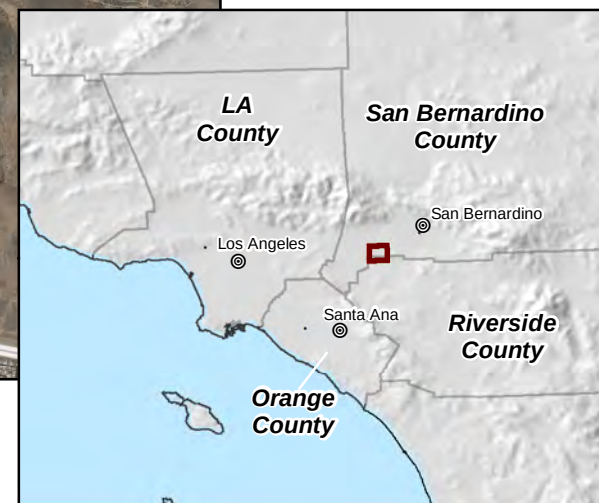
Recycled Water Recharge Program





Main Map Features

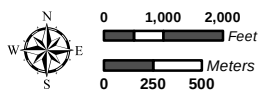
-  JCSD Wells
-  "Other Wells"
-  Existing Monitoring Well
-  Rivers/Streams/Creeks
-  Recharge Basins

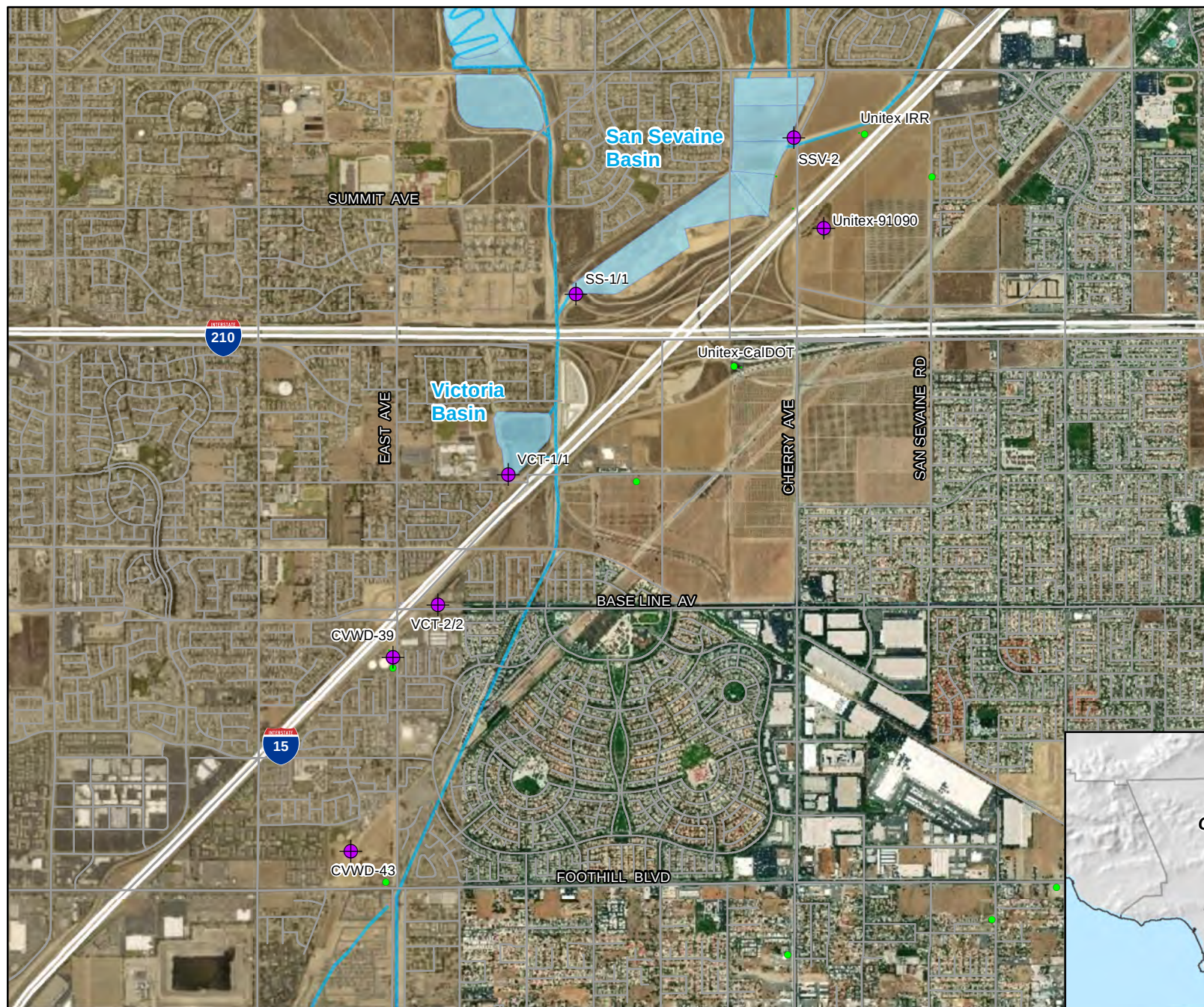


Monitoring Well Network
Declez and RP3 Basins

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

