



Randy Lee, P.E.
Acting Director of Finance

Peter Kavounas, P.E.
General Manager

May 15, 2023

Regional Water Quality Control Board, Santa Ana Region

Attention: Ms. Jayne Joy
3737 Main Street, Suite 500
Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program:
Quarterly Monitoring Report for January through March 2023**

Dear Ms. Joy,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the first quarter of 2023 (1Q23), January 1 through March 31, 2023, 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 1Q23, the Groundwater Recharge Program was in compliance with all monitoring and reporting requirements as specified in the Order, with the exception of exceedances of the maximum contaminant level (MCL) for 1,2,3-Trichloropropane (1,2,3-TCP), and notification level for Perfluorooctanoic acid (PFOA).

Chino Basin Watermaster hereby certifies that, during the period of January 1 through March 31, 2023, there was no reported pumping for drinking water purposes in the buffer zones extending 500 feet laterally and 6 months underground travel time from each of the recharge sites using recycled water, namely 7th & 8th Street, Banana, Brooks, Declez, Ely, Hickory, RP3, San Sevaive, 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.

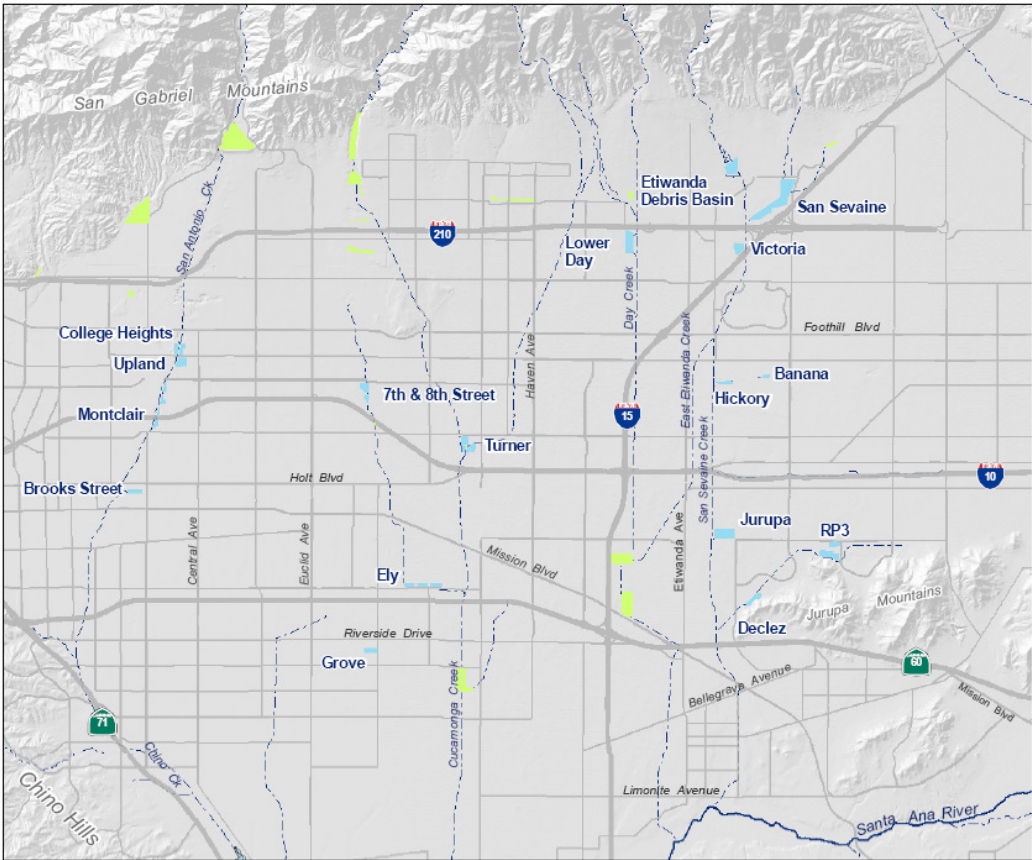
Executed on the 15th day of May in the Cities of Chino and Rancho Cucamonga.

for **Randy Lee, P.E.**
Acting Director of Finance

Peter Kavounas, P.E.
General Manager

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 31, 2023



Prepared by:



May 15, 2023

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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 2023 (1Q23).

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

- Monitoring results for recycled water, 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 of the existing permit in alignment with the GRRP 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, and basin surface water), 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 1Q23 data.

Recycled Water Quality 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 10 mg/L (Title 22, §60320.110). The previous method of TN compliance determination was based on alternative monitoring plans with reduction factors (Table 2-5 and discussed in further detail in Section 2.B). During 1Q23, 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 1Q23.

Recycled Water Quality 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) and Table 2-3b (RP-1 001B effluent) summarize the 4-quarter running average concentration for each parameter from 2Q22 through 1Q23 and lists the corresponding compliance limits.

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 1Q23 sampling for these compounds, IEUA chose the Banana-Hickory monitoring well (BH-1/2) as the compliance point. The BH-1/2 mound monitoring well was selected as the compliance monitoring point for 1Q23, as it has received many years of recycled water deliveries and would not be influenced by the recent storm events. Recycled water was present based on electrical conductivity (EC) measurements.

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 a 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 1Q23 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)*; secondary MCLs for required constituents; and oil & grease. 1,2,3-TCP and PFOA exceedances are detailed below:

1,2,3-TCP

In September 2019, 1,2,3-TCP was detected above the MCL of 0.005 µg/L at both the RW Blend and 001B Effluent recycled water locations. Accelerated weekly sampling for 1,2,3-TCP continued through 2Q20 until 1,2,3-TCP was found to be below the MCL. During 2Q21, 1,2,3-TCP was detected again above the MCL at both the RW Blend and 001B Effluent. 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 06/18/21.

- 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.”
- During a meeting with the DDW and Regional Board on July 15, 2021, Faraz Asad (DDW) requested that a revised corrective action report from the one submitted to the DDW and Regional Board on February 13, 2020 be prepared and submitted. IEUA continues to exceed the MCL after accelerated monitoring was implemented and the corrective actions report was submitted to the DDW and the Regional Board on Thursday, August 12, 2021.
- IEUA has been actively implementing the corrective actions, which includes: evaluations of monitoring wells, lysimeters, source control, and the analysis method; and an investigation of disinfection byproducts. IEUA has contracted with Trussell Technologies on October 5, 2021 to assist with the investigation of 1,2,3-TCP and possible mitigation measures. The objective of this study is to have 1,2,3-TCP designated as a disinfection byproduct specific to surface spreading activities. As of January 2022, the project team has identified the potential strategies to carry out the 1,2,3-TCP investigation. A 1,2,3-TCP method assessment plan was submitted to DDW and Regional Board for their review and comment on March 22, 2022 and the last set of comments were received on April 27, 2022. Trussell Technologies revised the plan, and the plan was re-submitted for review on June 13, 2022. On September 16, 2022, IEUA received an email from DDW asking if the DWRL_123TCP method has been incorporated in the method assessment plan. IEUA Compliance staff is confirming this information with Lab staff. At the time of reporting, some preliminary testing has taken place to evaluate the analytical methods and impact of preservative impacts on 1,2,3-TCP concentrations. Additionally, IEUA and Los Angeles County Sanitations Districts (LACSD) meet regularly to discuss 1,2,3-TCP, as both agencies utilize surface application for groundwater recharge and are regularly experiencing 1,2,3-TCP concentrations above the MCL.

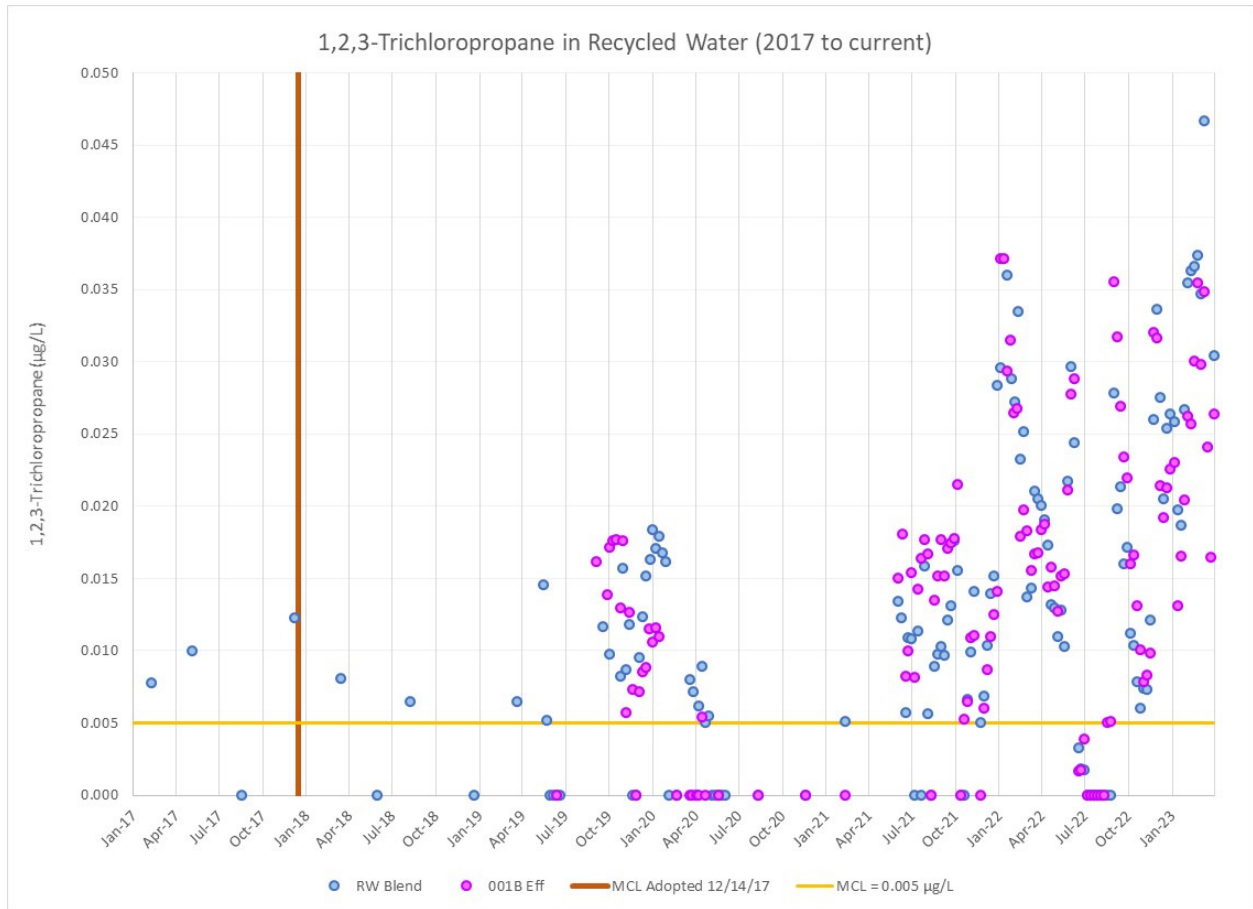
The weekly 1,2,3-TCP results from 2Q22 through 1Q23, and a chart of all the 1,2,3-TCP results since 2017 are shown below:

| Sample | Date | RW Blend (µg/L) | 4-week avg (µg/L) |
|---------|----------|-----------------|-------------------|
| Week 43 | 04/05/22 | 0.019 | 0.020 |
| Week 44 | 04/12/22 | 0.014 | 0.018 |
| Week 45 | 04/19/22 | 0.016 | 0.017 |
| Week 46 | 04/26/22 | 0.015 | 0.016 |
| Week 47 | 05/03/22 | 0.013 | 0.014 |
| Week 48 | 05/10/22 | 0.015 | 0.015 |
| Week 49 | 05/17/22 | 0.015 | 0.014 |
| Week 50 | 05/24/22 | 0.021 | 0.016 |
| Week 51 | 05/31/22 | 0.028 | 0.020 |
| Week 52 | 06/07/22 | 0.029 | 0.023 |
| Week 53 | 06/16/22 | <0.005 | 0.019 |
| Week 54 | 06/21/22 | <0.005 | 0.014 |
| Week 55 | 06/28/22 | <0.005 | 0.007 |
| Week 55 | 07/05/22 | <0.005 | <0.005 |
| Week 56 | 07/12/22 | <0.005 | <0.005 |
| Week 57 | 07/19/22 | <0.005 | <0.005 |

| Sample | Date | 001B Eff (µg/L) | 4-week avg (µg/L) |
|---------|----------|-----------------|-------------------|
| Week 43 | 04/05/22 | 0.019 | 0.018 |
| Week 44 | 04/12/22 | 0.014 | 0.017 |
| Week 45 | 04/19/22 | 0.016 | 0.017 |
| Week 46 | 04/26/22 | 0.015 | 0.016 |
| Week 47 | 05/03/22 | 0.013 | 0.014 |
| Week 48 | 05/10/22 | 0.015 | 0.015 |
| Week 49 | 05/17/22 | 0.015 | 0.014 |
| Week 50 | 05/24/22 | 0.021 | 0.016 |
| Week 51 | 05/31/22 | 0.028 | 0.020 |
| Week 52 | 06/07/22 | 0.029 | 0.023 |
| Week 53 | 06/16/22 | <0.005 | 0.019 |
| Week 54 | 06/21/22 | <0.005 | 0.014 |
| Week 55 | 06/28/22 | <0.005 | 0.007 |
| Week 55 | 07/05/22 | <0.005 | <0.005 |
| Week 56 | 07/12/22 | <0.005 | <0.005 |
| Week 57 | 07/19/22 | <0.005 | <0.005 |

| Sample | Date | RW Blend (µg/L) | 4-week avg (µg/L) |
|---------|----------|-----------------|-------------------|
| Week 58 | 07/26/22 | <0.005 | <0.005 |
| Week 59 | 08/03/22 | <0.005 | <0.005 |
| Week 60 | 08/09/22 | <0.005 | <0.005 |
| Week 61 | 08/16/22 | <0.005 | <0.005 |
| Week 62 | 08/23/22 | <0.005 | <0.005 |
| Week 63 | 08/30/22 | 0.028 | 0.007 |
| Week 64 | 09/06/22 | 0.020 | 0.012 |
| Week 65 | 09/13/22 | 0.021 | 0.017 |
| Week 66 | 09/20/22 | 0.016 | 0.021 |
| Week 67 | 09/27/22 | 0.017 | 0.019 |
| Week 68 | 10/05/22 | 0.011 | 0.016 |
| Week 69 | 10/12/22 | 0.010 | 0.014 |
| Week 70 | 10/19/22 | 0.008 | 0.012 |
| Week 71 | 10/26/22 | 0.006 | 0.009 |
| Week 72 | 11/02/22 | 0.007 | 0.008 |
| Week 73 | 11/09/22 | 0.007 | 0.007 |
| Week 74 | 11/16/22 | 0.012 | 0.008 |
| Week 75 | 11/23/22 | 0.026 | 0.013 |
| Week 76 | 11/30/22 | 0.034 | 0.020 |
| Week 77 | 12/07/22 | 0.028 | 0.025 |
| Week 78 | 12/14/22 | 0.021 | 0.027 |
| Week 79 | 12/21/22 | 0.025 | 0.027 |
| Week 80 | 12/28/22 | 0.026 | 0.025 |
| Week 81 | 01/04/23 | 0.026 | 0.025 |
| Week 82 | 01/11/23 | 0.020 | 0.024 |
| Week 83 | 01/18/23 | 0.019 | 0.023 |
| Week 84 | 01/25/23 | 0.027 | 0.023 |
| Week 85 | 02/01/23 | 0.035 | 0.025 |
| Week 86 | 02/08/23 | 0.036 | 0.029 |
| Week 87 | 02/15/23 | 0.037 | 0.034 |
| Week 88 | 02/22/23 | 0.037 | 0.036 |
| Week 89 | 03/01/23 | 0.035 | 0.036 |
| Week 90 | 03/08/23 | 0.047 | 0.039 |
| Week 91 | 03/15/23 | 0.052 | 0.043 |
| Week 92 | 03/22/23 | 0.053 | 0.047 |

| Sample | Date | 001B Eff (µg/L) | 4-week avg (µg/L) |
|---------|----------|-----------------|-------------------|
| Week 58 | 07/26/22 | <0.005 | <0.005 |
| Week 59 | 08/03/22 | <0.005 | <0.005 |
| Week 60 | 08/09/22 | <0.005 | <0.005 |
| Week 61 | 08/16/22 | 0.005 | 0.001 |
| Week 62 | 08/23/22 | 0.005 | 0.003 |
| Week 63 | 08/30/22 | 0.036 | 0.011 |
| Week 64 | 09/06/22 | 0.032 | 0.019 |
| Week 65 | 09/13/22 | 0.027 | 0.025 |
| Week 66 | 09/20/22 | 0.023 | 0.029 |
| Week 67 | 09/27/22 | 0.022 | 0.026 |
| Week 68 | 10/05/22 | 0.016 | 0.022 |
| Week 69 | 10/12/22 | 0.017 | 0.020 |
| Week 70 | 10/19/22 | 0.013 | 0.017 |
| Week 71 | 10/26/22 | 0.010 | 0.014 |
| Week 72 | 11/02/22 | 0.008 | 0.012 |
| Week 73 | 11/09/22 | 0.008 | 0.010 |
| Week 74 | 11/16/22 | 0.010 | 0.009 |
| Week 75 | 11/23/22 | 0.032 | 0.015 |
| Week 76 | 11/30/22 | 0.032 | 0.020 |
| Week 77 | 12/07/22 | 0.021 | 0.024 |
| Week 78 | 12/14/22 | 0.019 | 0.026 |
| Week 79 | 12/21/22 | 0.021 | 0.023 |
| Week 80 | 12/28/22 | 0.023 | 0.021 |
| Week 81 | 01/04/23 | 0.023 | 0.022 |
| Week 82 | 01/11/23 | 0.013 | 0.020 |
| Week 83 | 01/18/23 | 0.017 | 0.019 |
| Week 84 | 01/25/23 | 0.020 | 0.018 |
| Week 85 | 02/01/23 | 0.026 | 0.019 |
| Week 86 | 02/08/23 | 0.026 | 0.022 |
| Week 87 | 02/15/23 | 0.030 | 0.026 |
| Week 88 | 02/22/23 | 0.035 | 0.029 |
| Week 89 | 03/01/23 | 0.030 | 0.030 |
| Week 90 | 03/08/23 | 0.035 | 0.033 |
| Week 91 | 03/15/23 | 0.024 | 0.031 |
| Week 92 | 03/22/23 | 0.016 | 0.026 |



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. PFOS concentrations have never exceeded the NL in the recycled water. However, since the NLs were lowered during 3Q19, PFOA concentrations in the recycled water have exceeded the NL 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.

- §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, IEUA is awaiting the reevaluation of the request to reduce the PFOA monitoring frequency from weekly to monthly. During an August 5, 2021 meeting, the DDW and the Regional

Board requested additional information and a revised PFOA corrective actions report, which was submitted to both regulatory agencies on November 3, 2021.

- A follow-up meeting took place on February 28, 2022 and the DDW requested additional information on dry weather flow diversions. A revised corrective actions report was submitted to the DDW and RWQCB on May 2, 2022. At time of reporting, IEUA has not received a response from the DDW.

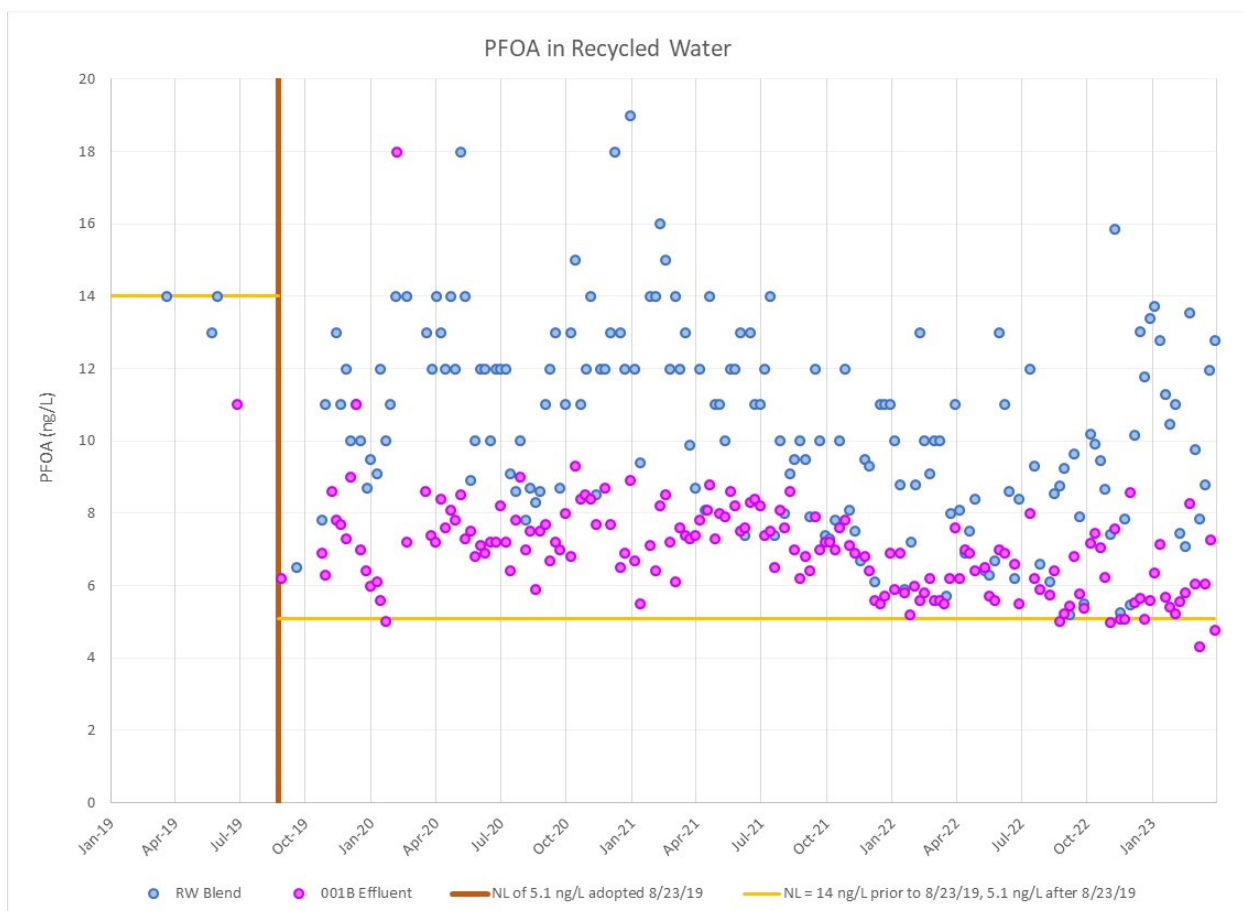
The weekly PFOA results from 2Q22 through 1Q23, and a chart of all the PFOA results since 2019 are shown below:

| Sample | Date | RW Blend (ng/L) | 4-week avg (ng/L) |
|-----------|----------|-----------------|-------------------|
| Continued | 04/05/22 | 6.2 | 6.4 |
| Continued | 04/12/22 | 7.0 | 6.8 |
| Continued | 04/19/22 | 6.9 | 6.9 |
| Continued | 04/26/22 | 6.4 | 6.6 |
| Continued | 05/10/22 | 6.5 | 6.7 |
| Continued | 05/17/22 | 5.7 | 6.4 |
| Continued | 05/24/22 | 5.6 | 6.1 |
| Continued | 05/31/22 | 7.0 | 6.2 |
| Continued | 06/07/22 | 6.9 | 6.3 |
| Continued | 06/14/22 | <2.0 | 4.9 |
| Continued | 06/21/22 | 6.6 | 5.1 |
| Continued | 06/28/22 | 5.5 | 4.8 |
| Continued | 07/05/22 | 12.0 | 8.8 |
| Continued | 07/12/22 | 9.3 | 9.0 |
| Continued | 07/19/22 | 6.6 | 9.1 |
| Continued | 07/26/22 | 6.1 | 8.5 |
| Continued | 08/02/22 | 8.5 | 7.1 |
| Continued | 08/09/22 | 8.8 | 7.8 |
| Continued | 08/16/22 | 9.3 | 8.2 |
| Continued | 08/23/22 | 5.2 | 7.9 |
| Continued | 08/30/22 | 9.7 | 8.2 |
| Continued | 09/06/22 | 7.9 | 8.0 |
| Continued | 09/13/22 | 5.5 | 7.1 |
| Continued | 09/20/22 | 6.1 | 8.5 |
| Continued | 09/27/22 | 8.5 | 7.1 |
| Continued | 10/05/22 | 10.2 | 8.3 |
| Continued | 10/12/22 | 9.9 | 8.4 |
| Continued | 10/19/22 | 9.5 | 8.8 |
| Continued | 10/26/22 | 8.7 | 9.6 |
| Continued | 11/02/22 | 7.4 | 8.9 |
| Continued | 11/09/22 | 15.9 | 10.4 |
| Continued | 11/16/22 | 5.3 | 9.3 |
| Continued | 11/23/22 | 7.8 | 9.1 |
| Continued | 11/30/22 | 5.5 | 8.6 |
| Continued | 12/07/22 | 10.2 | 7.2 |
| Continued | 12/14/22 | 13.0 | 9.1 |
| Continued | 12/21/22 | 11.8 | 10.1 |

| Sample | Date | 001B Eff (ng/L) | 4-week avg (ng/L) |
|-----------|----------|-----------------|-------------------|
| Continued | 04/05/22 | 8.1 | 8.2 |
| Continued | 04/12/22 | 6.9 | 8.5 |
| Continued | 04/19/22 | 7.5 | 8.4 |
| Continued | 04/26/22 | 8.4 | 7.7 |
| Continued | 05/10/22 | 6.4 | 7.3 |
| Continued | 05/17/22 | 6.3 | 7.2 |
| Continued | 05/24/22 | 6.7 | 7.0 |
| Continued | 05/31/22 | 13.0 | 8.1 |
| Continued | 06/07/22 | 11.0 | 9.3 |
| Continued | 06/14/22 | 8.6 | 9.8 |
| Continued | 06/21/22 | 6.2 | 9.7 |
| Continued | 06/28/22 | 8.4 | 8.6 |
| Continued | 07/05/22 | 8.0 | 5.0 |
| Continued | 07/12/22 | 6.2 | 6.6 |
| Continued | 07/19/22 | 5.9 | 6.4 |
| Continued | 07/26/22 | 5.7 | 6.5 |
| Continued | 08/02/22 | 6.4 | 6.0 |
| Continued | 08/09/22 | 5.0 | 5.7 |
| Continued | 08/16/22 | 5.2 | 5.6 |
| Continued | 08/23/22 | 5.4 | 5.5 |
| Continued | 08/30/22 | 6.8 | 5.6 |
| Continued | 09/06/22 | 5.8 | 5.8 |
| Continued | 09/13/22 | 5.4 | 5.8 |
| Continued | 09/20/22 | 5.7 | 6.5 |
| Continued | 09/27/22 | 6.4 | 6.0 |
| Continued | 10/05/22 | 7.2 | 6.3 |
| Continued | 10/12/22 | 7.5 | 6.4 |
| Continued | 10/19/22 | 7.1 | 6.8 |
| Continued | 10/26/22 | 6.2 | 7.0 |
| Continued | 11/02/22 | 5.0 | 6.4 |
| Continued | 11/09/22 | 7.6 | 6.5 |
| Continued | 11/16/22 | 5.1 | 6.0 |
| Continued | 11/23/22 | 5.1 | 5.7 |
| Continued | 11/30/22 | 8.6 | 6.6 |
| Continued | 12/07/22 | 5.5 | 6.1 |
| Continued | 12/14/22 | 5.6 | 6.2 |
| Continued | 12/21/22 | 5.1 | 6.2 |

| Sample | Date | RW Blend (ng/L) | 4-week avg (ng/L) |
|-----------|----------|-----------------|-------------------|
| Continued | 12/28/22 | 13.4 | 12.1 |
| Continued | 01/04/23 | 13.7 | 13.0 |
| Continued | 01/11/23 | 12.8 | 12.9 |
| Continued | 01/18/23 | 11.3 | 12.8 |
| Continued | 01/25/23 | 10.5 | 12.1 |
| Continued | 02/01/23 | 11.0 | 11.4 |
| Continued | 02/08/23 | 7.4 | 10.1 |
| Continued | 02/15/23 | 7.1 | 9.0 |
| Continued | 02/22/23 | 13.5 | 9.8 |
| Continued | 03/01/23 | 9.8 | 9.5 |
| Continued | 03/08/23 | 7.8 | 9.5 |
| Continued | 03/15/23 | 8.8 | 10.0 |
| Continued | 03/22/23 | 12.0 | 9.6 |
| Continued | 03/29/23 | 12.8 | 10.3 |

| Sample | Date | 001B Eff (ng/L) | 4-week avg (ng/L) |
|-----------|----------|-----------------|-------------------|
| Continued | 12/28/22 | 5.6 | 5.5 |
| Continued | 01/04/23 | 6.4 | 5.7 |
| Continued | 01/11/23 | 7.2 | 6.0 |
| Continued | 01/18/23 | 5.7 | 6.2 |
| Continued | 01/25/23 | 5.4 | 6.2 |
| Continued | 02/01/23 | 5.2 | 5.9 |
| Continued | 02/08/23 | 5.6 | 5.5 |
| Continued | 02/15/23 | 5.8 | 5.5 |
| Continued | 02/22/23 | 8.3 | 6.2 |
| Continued | 03/01/23 | 6.1 | 6.4 |
| Continued | 03/08/23 | 4.3 | 6.1 |
| Continued | 03/15/23 | 6.0 | 6.2 |
| Continued | 03/22/23 | 7.3 | 5.9 |
| Continued | 03/29/23 | 4.8 | 5.6 |



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

Total organic carbon (TOC) and nitrogen species sampling and analyses were 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. However, starting 3Q22 all

recharge basins have transitioned to alternative monitoring plans to determine compliance with TOC and TN, and lysimeter monitoring is no longer used.

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 RW Blend with a correction factor of 80 percent for TOC and 47 percent for TN
- Hickory Basin: Sampling at the RW Blend with a correction factor of 81 percent for TOC and 27 percent for TN
- Turner Basins 1 & 2: Sampling at the RW Blend with a correction factor of 70 percent for TOC and 87 percent for TN
- Turner Basins 3 & 4: Sampling at the RW Blend with a correction factor of 85 percent for TOC and 87 percent for TN
- Ely Basins: Sampling 001B Effluent with a correction factor of 76 percent for TOC and 52 percent for TN
- RP3 Basin: Sampling at the RW Blend with a correction factor of 88 percent for TOC and 31 percent for TN
- 7th & 8th Street Basin: Sampling at the RW Blend with a correction factor of 88 percent for TOC and 75 percent for TN
- Victoria Basin: Sampling at the RW Blend 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
- Declaz Basin: Sampling at the RW Blend with a correction factor of 62 percent for TOC and 91 percent for TN
- San Sevaine Basin 1-3: Sampling at the RW Blend with a correction factor of 92 percent for TOC and 34 percent for TN. Revised start-up period report was submitted during 1Q22.

During 1Q23, there were no exceedances of TOC and TN at basins based on the 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 2-5. As part of the CAR review, the DDW identified that the TN limit could not be met using a reduction factor we had previously established for alternative monitoring. The DDW clarified that the 10 mg/L TN limit from the GRRP regulations would need to be met at the recycled water. The recycled water monitoring has met the TN compliance for 1Q23 as demonstrated in Table 2-1. However, the alternative monitoring using the reduction factor will continue to be reported for the Regional Board until a new GWR permit is issued.

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 basins where recycled water recharge had initiated, with the exception of San Sevaïne 5 (no longer being recharged with recycled water) 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.”

C. 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 1Q23, diluent water quality sampling of four storm water sites were conducted. Table 2-7a list the results of the local runoff and stormwater sampling and analyses for 1Q23. The maximum level to trigger a source water evaluation has been exceeded for aluminum, PFOA, and PFOS during prior monitoring events. IEUA has submitted a preliminary evaluation of potential source for all the contaminants where concentrations exceed the maximum level to trigger a source evaluation as part of the CAR and is awaiting a response from DDW regarding the need to complete a source water evaluation.

Table 2-7b lists the results from Metropolitan Water District’s (MWD) general mineral and physical analysis of source water from Silverwood Lake.

D. Groundwater Monitoring Wells

Monitoring is conducted at groundwater monitoring wells quarterly and annually to evaluate groundwater quality conditions in the vicinity of the recharge basins utilizing recycled water. Groundwater monitoring results can be used to assess background conditions, time the arrival of recharge waters, and assess the impact that recharged water has on downgradient water supplies. The wells in the monitoring well networks for Hickory and Banana, Turner, Declez, RP3, 7th & 8th Street, Brooks Street, San Sevaïne, Victoria, and Ely 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 2-9.

Any 1Q23 sample which exceeded primary or secondary MCLs are shown in Table 2-9 in magenta (primary MCL) and green (secondary MCL) 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. In 1Q23, the following constituents were detected above the MCLs:

Primary MCL Exceedance

- NO₃-N samples collected from monitoring wells at Banana & Hickory, RP3, 7th & 8th Street, Brooks, and Ely were detected above the primary MCL of 10 mg/L. The NO₃-N concentrations at these wells range from 11 to 22 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.

Secondary MCL Exceedances

- Color was higher than the secondary MCL of 15 units at BRK-2/1 and DCZ-1/1.
- Turbidity was higher than the secondary MCL of 5 NTU at 8TH-1/2, 8TH-2/2, BRK-2/1, SSV-2, and DCZ-1/1.
- TDS was higher than its secondary MCL of 500 mg/L at ALCOA MW3, Southridge JHS, and Bishop of SB Corp. – DOM and EC was higher than its secondary MCL of 900 μmhos/cm at ALCOA MW3 and Southridge JHS. 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.

The current State of the Basin Report, which is the “Chino Basin Optimum Basin Management Program 2020 State of the Basin Report” published in June 2021 was prepared by West Yost Associates for the CBWM. The 2020 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 Toxic 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.

| Basins | Monitoring Well (A) | Monitoring Well (B) |
|--|---------------------------------------|--|
| 7 th & 8 th Street | 8TH-1/2 | 8TH-2/1 |
| Banana & Hickory | BH-1/2 | Reliant Energy – East Well (currently out of service) |
| Brooks | BRK-1/1 | BRK-2/1 |
| Ely | Ely MW1 (currently out of service) | Ely MW2 |
| RP3 | RP3-1/1 | Southridge JHS |
| Turner | T-1/2 | T-2/2 |
| Victoria & San Sevaine | SSV-2 & VCT-1/1 | VCT-2/1 |
| Declez | DCZ-1/1 | DCZ-2 |

Groundwater quality samples are collected and tested annually for constituents specified in the Phase II Findings of Fact, Attachment A in the permit (Bullet 27 in the Conditions Section). The annual groundwater monitoring well sampling was started during 1Q23. However, due to the relocation of the

Eurofins Eaton Analytical (EEA) Laboratory, we were advised by EEA staff to stop collecting the annual monitoring well samples to reduce the possibility of lost samples. The 1Q23 data will be reported in the 2Q23 report when the remaining monitoring wells are sampled.

3. Recharge Operations

IEUA's GWR staff records the daily volumes of water routed to the recharge basins. The 7th & 8th St, Banana, Brooks, RP3, San Sevaine, and Victoria Basins received recycled water this quarter. Table 3-1 lists the volumes of recycled water and diluent water (imported water and/or local runoff/storm flow) 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 1Q23: Ely MW1 well is damaged and requires replacement; Ontario Well 25 was taken out of service indefinitely by the DDW; Pomona Well 34 was having issues that were not resolved during 1Q23; 8TH-1/1 was out of service due to a collapsed bladder and is awaiting quotes to rehabilitate the well; Alcoa MW1 is out of service due to possible water in the line; California Speedway – Infield Well has a motor issue; and JCSD Well 17 is out of service due to water quality issues.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q23 for domestic or municipal use from the buffer zones that extend 500 feet and 6 months underground travel time from the 7th & 8th St, Banana, Brooks, Declez, Ely, Hickory, RP3, San Sevaine, Turner, 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. Injection activities have been periodic since the program began in 2007. There was not injection during the last year from 2Q22 to 1Q23. 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 2Q22 to 1Q23.

Table 2-1a
 Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for January 2023
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

| Unit | RP-1 Effluent (001B 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 |
| 01/01/23 | 0.5 | 6.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.6 | | | 7.1 | 813 | | | | <1 |
| 01/02/23 | 0.5 | 7.4 | | | | 7.0 | 1061 | | | 2 | 0.6 | 5.8 | 6.2 | | 7.0 | 807 | | | | <1 |
| 01/03/23 | 0.5 | 8.4 | | | | 7.0 | 1061 | | | <1 | 0.6 | 6.0 | | | 7.0 | 829 | | | | <1 |
| 01/04/23 | 0.6 | 9.4 | 4.9 | | 4.9 | 7.0 | 1061 | 444 | | 2 | 0.6 | 5.9 | 6.3 | 6.5 | 6.3 | 7.0 | 826 | 454 | | <1 |
| 01/05/23 | 0.6 | 10.4 | | | | 7.0 | 1061 | | | <1 | 0.6 | 5.6 | | | 7.0 | 812 | | | | <1 |
| 01/06/23 | 0.6 | 11.4 | | | | 7.0 | 1061 | | | <1 | 0.7 | 5.3 | | | 7.0 | 774 | | | | <1 |
| 01/07/23 | 0.6 | 12.4 | | | | 7.0 | 1061 | | | <1 | 0.6 | 5.2 | | | 7.0 | 767 | | | | <1 |
| 01/08/23 | 0.7 | 13.4 | 5.1 | 5.1 | 5.1 | 7.0 | 1061 | 430 | 148 | 1 | 0.7 | 5.4 | 8.7 | 8.7 | 8.7 | 7.0 | 760 | 438 | 144 | <1 |
| 01/09/23 | 0.8 | 14.4 | | | | 7.0 | 1061 | | | <1 | 0.6 | 5.5 | | | 7.1 | 747 | | | | <1 |
| 01/10/23 | 0.7 | 15.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.4 | | | 7.1 | 721 | | | | 1 |
| 01/11/23 | 0.7 | 16.4 | 5.3 | | 5.3 | 7.0 | 1061 | | | <1 | 0.4 | 5.3 | 9.2 | | 9.2 | 7.0 | 688 | | | <1 |
| 01/12/23 | 0.8 | 17.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.3 | | | 7.0 | 719 | | | | <1 |
| 01/13/23 | 0.8 | 18.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.0 | | | 7.0 | 718 | | | | <1 |
| 01/14/23 | 0.9 | 19.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.1 | | | 7.0 | 725 | | | | <1 |
| 01/15/23 | 0.7 | 20.4 | 4.2 | 4.2 | 4.2 | 7.0 | 1061 | 368 | | <1 | 0.5 | 5.1 | 9.1 | 9.1 | 9.1 | 7.0 | 680 | 400 | | <1 |
| 01/16/23 | 0.8 | 21.4 | | | | 7.0 | 1061 | | | 1 | 0.5 | 5.3 | | | 7.0 | 662 | | | | <1 |
| 01/17/23 | 1.1 | 22.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.3 | | | 7.0 | 657 | | | | <1 |
| 01/18/23 | 1.0 | 23.4 | 4.6 | | 4.6 | 7.0 | 1061 | | | <1 | 0.3 | 5.3 | 6.1 | | 6.2 | 7.1 | 682 | | | <1 |
| 01/19/23 | 1.1 | 24.4 | | | | 7.0 | 1061 | | | <1 | 0.3 | 5.3 | | | 7.1 | 724 | | | | <1 |
| 01/20/23 | 1.2 | 25.4 | | | | 7.0 | 1061 | | | <1 | 0.3 | 5.1 | | | 7.1 | 741 | | | | <1 |
| 01/21/23 | 1.2 | 26.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.2 | | | 7.0 | 751 | | | | <1 |
| 01/22/23 | 1.2 | 27.4 | 5.5 | 5.5 | 5.5 | 7.0 | 1061 | 436 | | 1 | 0.4 | 5.4 | 6.5 | 6.5 | 6.7 | 7.1 | 727 | 424 | | <1 |
| 01/23/23 | 1.0 | 28.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 6.2 | | | 7.1 | 719 | | | | <1 |
| 01/24/23 | 0.7 | 29.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.5 | | | 7.1 | 725 | | | | <1 |
| 01/25/23 | 0.7 | 30.4 | 5.8 | | 5.8 | 7.0 | 1061 | | | <1 | 0.4 | 5.7 | 6.6 | | 6.7 | 7.1 | 719 | | | <1 |
| 01/26/23 | 0.6 | 31.4 | | | | 7.0 | 1061 | | | 30 | 0.4 | 5.7 | | | 7.2 | 716 | | | | <1 |
| 01/27/23 | 0.6 | 32.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.5 | | | 7.1 | 724 | | | | <1 |
| 01/28/23 | 0.5 | 33.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.6 | | | 7.1 | 722 | | | | <1 |
| 01/29/23 | 0.5 | 34.4 | 6.4 | 6.4 | 6.4 | 7.0 | 1061 | 432 | | <1 | 0.4 | 5.9 | 6.7 | 6.7 | 6.8 | 7.1 | 715 | 432 | | <1 |
| 01/30/23 | 0.5 | 35.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 6.3 | | | 7.1 | 712 | | | | 2 |
| 01/31/23 | 0.4 | 36.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 6.2 | | | 7.2 | 714 | | | | <1 |
| Avg | 0.8 | 21.4 | 5.2 | 5.3 | 5.2 | 7.0 | 1061 | 422 | 148 | <2 | 0.5 | 5.5 | 7.3 | 7.5 | 7.4 | 7.0 | 735 | 430 | 144 | <1 |
| Min | 0.4 | 6.4 | 4.2 | 4.2 | 4.2 | 7.0 | 1061 | 368 | 148 | <1 | 0.3 | 5.0 | 6.1 | 6.5 | 6.2 | 7.0 | 657 | 400 | 144 | <1 |
| Max | 1.2 | 36.4 | 6.4 | 6.4 | 6.4 | 7.0 | 1061 | 444 | 148 | 30 | 0.7 | 6.3 | 9.2 | 9.1 | 9.2 | 7.2 | 829 | 454 | 144 | 2 |

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

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

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. 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 and compliance is evaluated in recycled water samples. RWQCB limit is 5 mg/L and compliance can be evaluated using applied correction factor of alternative monitoring plans

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 2023
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

| Unit | RP-1 Effluent (001B 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 |
| 02/01/23 | 0.5 | 6.4 | 5.5 | | 5.5 | 7.0 | 1061 | | | <1 | 0.4 | 5.8 | 7.3 | | 7.3 | 7.1 | 717 | | | <1 |
| 02/02/23 | 0.5 | 7.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.8 | | | | 7.0 | 716 | | | <1 |
| 02/03/23 | 0.6 | 8.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.6 | | | | 7.0 | 713 | | | <1 |
| 02/04/23 | 0.6 | 9.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.7 | | | | 7.0 | 715 | | | <1 |
| 02/05/23 | 0.7 | 10.4 | 5.7 | 5.7 | 5.7 | 7.0 | 1061 | 470 | 169 | 2 | 0.6 | 6.0 | 6.2 | 6.2 | 6.2 | 7.1 | 715 | 408 | 154 | <1 |
| 02/06/23 | 0.9 | 11.4 | | | | 7.0 | 1061 | | | <1 | 0.6 | 6.2 | | | | 7.1 | 713 | | | <1 |
| 02/07/23 | 1.0 | 12.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.1 | | | | 7.1 | 717 | | | <1 |
| 02/08/23 | 1.1 | 13.4 | 5.7 | | 5.9 | 7.0 | 1061 | | | <1 | 0.4 | 5.8 | 5.7 | | 5.8 | 7.1 | 716 | | | <1 |
| 02/09/23 | 0.9 | 14.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.8 | | | | 7.1 | 714 | | | <1 |
| 02/10/23 | 0.6 | 15.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.8 | | | | 7.1 | 713 | | | <1 |
| 02/11/23 | 0.6 | 16.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.7 | | | | 7.1 | 714 | | | <1 |
| 02/12/23 | 0.6 | 17.4 | 5.8 | 5.8 | 5.8 | 7.0 | 1061 | 414 | | 1 | 0.4 | 0.0 | | | | 7.1 | | | | <1 |
| 02/13/23 | 0.6 | 18.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.0 | 4.4 | 4.6 | 4.4 | 7.1 | 711 | 410 | | <1 |
| 02/14/23 | 0.8 | 19.4 | | | | 7.0 | 1061 | | | 2 | 0.5 | 6.3 | | | | 7.2 | 724 | | | <1 |
| 02/15/23 | 0.6 | 20.4 | 8.4 | | 8.4 | 7.0 | 1061 | | | <1 | 0.5 | 5.9 | 3.6 | | 3.6 | 7.2 | 725 | | | <1 |
| 02/16/23 | 0.6 | 21.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.9 | | | | 7.2 | 718 | | | <1 |
| 02/17/23 | 0.6 | 22.4 | | | | 7.0 | 1061 | | | 1 | 0.4 | 5.4 | | | | 7.1 | 725 | | | <1 |
| 02/18/23 | 0.6 | 23.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.4 | | | | 7.1 | 724 | | | <1 |
| 02/19/23 | 0.6 | 24.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.6 | | | | 7.1 | 720 | | | <1 |
| 02/20/23 | 0.7 | 25.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 6.1 | | | | 7.1 | 715 | | | <1 |
| 02/21/23 | 0.6 | 26.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.2 | | | | 7.2 | 717 | | | <1 |
| 02/22/23 | 0.9 | 27.4 | 6.1 | | 6.1 | 7.0 | 1061 | 440 | | <1 | 0.4 | 5.8 | 3.7 | 4.2 | 3.7 | 7.2 | 713 | 400 | | <1 |
| 02/23/23 | 1.3 | 28.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.9 | | | | 7.2 | 711 | | | <1 |
| 02/24/23 | 1.1 | 29.4 | | | | 7.0 | 1061 | | | 1 | 0.3 | 5.4 | | | | 7.1 | 706 | | | <1 |
| 02/25/23 | 0.4 | 30.4 | | | | 7.0 | 1061 | | | <1 | 0.3 | 5.2 | | | | 7.1 | 670 | | | <1 |
| 02/26/23 | 0.4 | 31.4 | 5.0 | | 5.0 | 7.0 | 1061 | 386 | | <1 | 0.3 | 5.1 | 6.0 | 6.0 | 6.0 | 7.0 | 642 | 372 | | 36 |
| 02/27/23 | 0.5 | 32.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.5 | | | | 7.0 | 661 | | | <1 |
| 02/28/23 | 0.6 | 33.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.4 | | | | 7.0 | 678 | | | <1 |
| Avg | 0.7 | 19.9 | 6.0 | 5.8 | 6.1 | 7.0 | 1061 | 428 | 169 | <1 | 0.4 | 5.5 | 5.3 | 5.3 | 5.3 | 7.1 | 708 | 398 | 154 | <2 |
| Min | 0.4 | 6.4 | 5.0 | 5.7 | 5.0 | 7.0 | 1061 | 386 | 169 | <1 | 0.3 | 0.0 | 3.6 | 4.2 | 3.6 | 7.0 | 642 | 372 | 154 | <1 |
| Max | 1.3 | 33.4 | 8.4 | 5.8 | 8.4 | 7.0 | 1061 | 470 | 169 | 2 | 0.6 | 6.3 | 7.3 | 6.2 | 7.3 | 7.2 | 725 | 410 | 154 | 36 |

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 and compliance is evaluated in recycled water samples. RWQCB limit is 5 mg/L and compliance can be evaluated using applied correction factor of alternative monitoring plans

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 2023
 (Recycled Water Quality Specifications A.5, A.7, A.8, & A.9)

| Unit | RP-1 Effluent (001B 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 |
| 03/01/23 | 0.6 | 6.4 | 5.0 | | 5.0 | 7.0 | 1061 | | | <1 | 0.4 | 5.3 | 5.4 | | 5.5 | 7.0 | 676 | | | <1 |
| 03/02/23 | 0.6 | 7.4 | | | | 7.0 | 1061 | | | <1 | 0.3 | 5.3 | | | | 7.0 | 676 | | | <1 |
| 03/03/23 | 0.6 | 8.4 | | | | 7.0 | 1061 | | | 1 | 0.3 | 5.1 | | | | 6.9 | 695 | | | <1 |
| 03/04/23 | 0.6 | 9.4 | | | | 7.0 | 1061 | | | <1 | 0.3 | 5.2 | | | | 7.0 | 713 | | | <1 |
| 03/05/23 | 0.6 | 10.4 | 5.7 | 5.7 | 5.7 | 7.0 | 1061 | 458 | 144 | <1 | 0.4 | 5.7 | 4.7 | 4.7 | 4.8 | 7.0 | 731 | 418 | 146 | <1 |
| 03/06/23 | 0.6 | 11.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.0 | | | | 7.1 | 737 | | | <1 |
| 03/07/23 | 1.0 | 12.4 | | | | 7.0 | 1061 | | | 1 | 0.5 | 5.8 | | | | 7.1 | 745 | | | <1 |
| 03/08/23 | 1.2 | 13.4 | 4.8 | | 4.8 | 7.0 | 1061 | | | <1 | 0.5 | 5.9 | 4.7 | | 4.7 | 7.1 | 754 | | | <1 |
| 03/09/23 | 1.2 | 14.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 6.1 | | | | 7.0 | 762 | | | <1 |
| 03/10/23 | 1.0 | 15.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.9 | | | | 7.0 | 759 | | | <1 |
| 03/11/23 | 0.8 | 16.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.7 | | | | 7.0 | 746 | | | <1 |
| 03/12/23 | 0.8 | 17.4 | 4.3 | | 4.3 | 7.0 | 1061 | 434 | | <1 | 0.4 | 6.1 | 4.3 | 5.1 | 4.4 | 7.0 | 737 | 424 | | <1 |
| 03/13/23 | 0.8 | 18.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.4 | | | | 7.0 | 749 | | | <1 |
| 03/14/23 | 0.7 | 19.4 | | | | 7.0 | 1061 | | | 1 | 0.5 | 6.4 | | | | 7.0 | 752 | | | <1 |
| 03/15/23 | 0.6 | 20.4 | 5.7 | | 5.7 | 7.0 | 1061 | | | <1 | 0.5 | 6.1 | 3.9 | | 4.0 | 7.0 | 712 | | | <1 |
| 03/16/23 | 0.7 | 21.4 | | | | 7.0 | 1061 | | | <1 | 0.4 | 5.5 | | | | 7.0 | 685 | | | <1 |
| 03/17/23 | 0.7 | 22.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.4 | | | | 6.9 | 719 | | | <1 |
| 03/18/23 | 0.6 | 23.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.7 | | | | 7.0 | 746 | | | <1 |
| 03/19/23 | 0.7 | 24.4 | 5.7 | | 5.7 | 7.0 | 1061 | 434 | | <1 | 0.7 | 6.1 | 3.2 | 4.2 | 3.3 | 7.0 | 752 | 420 | | <1 |
| 03/20/23 | 0.6 | 25.4 | | | | 7.0 | 1061 | | | <1 | 0.7 | 6.6 | | | | 7.0 | 736 | | | <1 |
| 03/21/23 | 0.6 | 26.4 | | | | 7.0 | 1061 | | | 1 | 0.6 | 6.2 | | | | 7.0 | 737 | | | <1 |
| 03/22/23 | 0.6 | 27.4 | 6.0 | | 6.0 | 7.0 | 1061 | | | <1 | 0.5 | 5.9 | 3.7 | | 3.7 | 7.0 | 704 | | | <1 |
| 03/23/23 | 0.7 | 28.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.8 | | | | 6.9 | 708 | | | <1 |
| 03/24/23 | 0.8 | 29.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 5.7 | | | | 7.0 | 717 | | | <1 |
| 03/25/23 | 0.9 | 30.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.0 | | | | 7.0 | 732 | | | <1 |
| 03/26/23 | 1.0 | 31.4 | 6.2 | | 6.2 | 7.0 | 1061 | 430 | | <1 | 0.5 | 6.2 | 3.8 | 4.9 | 3.8 | 7.0 | 737 | 424 | | <1 |
| 03/27/23 | 0.6 | 32.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.4 | | | | 7.0 | 739 | | | <1 |
| 03/28/23 | 0.4 | 33.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.5 | | | | 7.0 | 744 | | | <1 |
| 03/29/23 | 0.4 | 34.4 | 5.7 | | 5.7 | 7.0 | 1061 | | | <1 | 0.5 | 6.5 | 3.9 | | 3.9 | 7.0 | 739 | | | <1 |
| 03/30/23 | 0.5 | 35.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.1 | | | | 7.0 | 733 | | | <1 |
| 03/31/23 | 0.5 | 36.4 | | | | 7.0 | 1061 | | | <1 | 0.5 | 6.0 | | | | 6.9 | 743 | | | <1 |
| Avg | 0.7 | 21.4 | 5.5 | 5.7 | 5.5 | 7.0 | 1061 | 439 | 144 | <1 | 0.5 | 5.9 | 4.2 | 4.7 | 4.2 | 7.0 | 730 | 422 | 146 | <1 |
| Min | 0.4 | 6.4 | 4.3 | 5.7 | 4.3 | 7.0 | 1061 | 430 | 144 | <1 | 0.3 | 5.1 | 3.2 | 4.2 | 3.3 | 6.9 | 676 | 418 | 146 | <1 |
| Max | 1.2 | 36.4 | 6.2 | 5.7 | 6.2 | 7.0 | 1061 | 458 | 144 | 1 | 0.7 | 6.6 | 5.4 | 5.1 | 5.5 | 7.1 | 762 | 424 | 146 | <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 and compliance is evaluated in recycled water samples. RWQCB limit is 5 mg/L and compliance can be evaluated using applied correction factor of alternative monitoring plans

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)

| Date | TIN | | TDS | |
|--------|---------|-----------------|---------|-----------------|
| | Monthly | 12-Mo. Run Avg. | Monthly | 12-Mo. Run Avg. |
| Apr-22 | 4.8 | 4.4 | 491 | 489 |
| May-22 | 5.1 | 4.4 | 487 | 488 |
| Jun-22 | 4.5 | 4.4 | 479 | 486 |
| Jul-22 | 4.3 | 4.4 | 494 | 486 |
| Aug-22 | 4.4 | 4.4 | 482 | 484 |
| Sep-22 | 4.8 | 4.4 | 493 | 485 |
| Oct-22 | 5.4 | 4.6 | 483 | 485 |
| Nov-22 | 4.0 | 4.6 | 506 | 487 |
| Dec-22 | 3.8 | 4.5 | 497 | 487 |
| Jan-23 | 4.3 | 4.5 | 468 | 485 |
| Feb-23 | 5.2 | 4.6 | 465 | 484 |
| Mar-23 | 4.3 | 4.6 | 491 | 486 |
| Avg | 4.6 | 4.5 | 486 | 486 |
| Min | 3.8 | 4.4 | 465 | 484 |
| Max | 5.4 | 4.6 | 506 | 489 |
| 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 | 2Q22 | 3Q22 | 4Q22 | 1Q23 | 4Q Run. Avg. ¹ | Limit | Unit | Method |
|---|---------------|---------------|---------------|---------------|---------------------------|-------------------|------|----------------|
| Inorganic Chemicals | | | | | | | | |
| Aluminum | 82 | 142 | 129 | 206 | 140 | 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 | NR | NR | NR | NR | <2 | 7 | MFL | EPA 100.2 |
| Barium | 14 | 24 | 13 | 25 | 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 | <2 | 3 | <2 | <2 | <2 | 50 | µg/L | EPA 200.8 |
| Chromium VI ² | 0.4 | 0.5 | 0.3 | 0.3 | 0.4 | 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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2 | µg/L | EPA 245.1 |
| Nickel | 4 | 3 | 2 | 2 | 3 | 100 | µg/L | EPA 200.8 |
| Perchlorate | <2 | <2 | <2 | <2 | <2 | 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 | <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-Dichloropropene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 300 | µg/L | EPA 524.2 |
| Monochlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 524.2 |
| Methyl-tert-butyl ether | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 13 | µg/L | EPA 524.2 |
| Styrene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 100 | µg/L | EPA 524.2 |
| 1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 524.2 |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Toluene | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,2,4-Trichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 200 | µg/L | EPA 524.2 |
| 1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichlorofluoromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1200 | µg/L | EPA 524.2 |
| Vinyl Chloride | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| m,p-Xylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1750 ³ | µg/L | EPA 524.2 |
| o-Xylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1750 ³ | µg/L | EPA 524.2 |
| 1,2,3-Trichloropropane (added 7/2017) | see 2Q22 text | see 3Q22 text | see 4Q22 text | see 1Q23 text | <0.005 | 0.005 | µg/L | CASRL 524M-TCP |
| Non-Volatile Synthetic Organic Chemicals (SOCs) | | | | | | | | |
| Alachlor (Alanex) | <0.1 | NA | <0.1 | <0.1 | <0.1 | 2 | µg/L | EPA 505 |
| Atrazine | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Bentazon | <0.5 | NA | <0.5 | <0.5 | <0.5 | 18 | µg/L | EPA 515.4 |
| Benzo(a)pyrene | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | µg/L | EPA 525.2 |
| Carbofuran | <0.5 | <0.9 | <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 | 1.1 | <0.1 | <0.1 | <0.1 | 70 | µg/L | EPA 515.4 |
| Dalapon | 6 | <1 | 2 | 5 | 3 | 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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.6 | 400 | µg/L | EPA 525.2 |
| Di(2-ethylhexyl)phthalate | <0.5 | <0.5 | <0.5 | <0.5 | <0.6 | 4 | µg/L | EPA 525.2 |
| Dinoseb | <0.2 | <0.1 | <0.1 | <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 | NA | <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 | 2Q22 | 3Q22 | 4Q22 | 1Q23 | 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 | NA | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Heptachlor Epoxide | <0.01 | NA | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Hexachlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Hexachlorocyclopentadiene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 50 | µg/L | EPA 525.2 |
| Lindane | <0.01 | NA | <0.01 | <0.01 | <0.01 | 0.2 | µg/L | EPA 505 |
| Methoxychlor | <0.05 | NA | <0.05 | <0.05 | <0.05 | 30 | µg/L | EPA 505 |
| Molinate | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 20 | µg/L | EPA 525.2 |
| Oxamyl | <0.5 | <1 | <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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 525.2 |
| Thiobencarb | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 525.2 |
| Toxaphene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | µg/L | EPA 505 |
| 2,3,7,8-TCDD (Dioxin) | <5 | <4 | <4 | <4 | <4 | 30 | pg/L | EPA 1613 |
| 2,4,5-TP (Silvex) | <0.2 | <0.1 | <0.1 | <0.2 | <0.2 | 50 | µg/L | EPA 515.4 |
| Action Level Chemicals | | | | | | | | |
| Copper | 3.5 | 4.2 | 4.0 | 7.0 | 4.7 | 1300 | µg/L | EPA 200.8 |
| Lead | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 15 | µg/L | EPA 200.8 |
| Radionuclides | | | | | | | | |
| Combined Radium-226 and Radium 228 | <3 | <3 | <3 | <3 | <3 | 5 | pCi/L | EPA 903.0 |
| Gross Alpha Particle Activity | <3 | <3 | <3 | <3 | <3 | 15 | pCi/L | EPA 900.0/SM7110C |
| Tritium | <1000 | <1000 | <335 | <335 | <1000 | 20,000 | pCi/L | EPA 906 |
| Strontium-90 | <2 | <3 | <3 | <3 | <3 | 8 | pCi/L | EPA 905 |
| Gross Beta Particle Activity | 14 | 10 | 6 | 8 | 9 | 50 | pCi/L | EPA 900.0 |
| Uranium | <1 | <1 | <1 | <1 | <1 | 20 | pCi/L | EPA 200.8 |
| Secondary Maximum Contaminant Level Chemicals | | | | | | | | |
| Aluminum | 82 | 129 | 129 | 206 | 137 | 200 | µg/L | EPA 200.8 |
| Copper | 3.5 | 4.0 | 4.0 | 7.0 | 4.6 | 1000 | µg/L | EPA 200.8 |
| Corrosivity | 0.2 (Non-Cor.) | 0.1 (Non-Cor.) | 0.1 (Non-Cor.) | 0.3 (Non-Cor.) | Non-Cor. | Non-Cor. | SI | SM 2330B |
| Foaming Agents (MBAS) ⁴ | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | mg/L | S5540C/EPA 425.1 |
| Iron ⁴ | 74 | 41 | 58 | <15 | 73 | 300 | µg/L | EPA 200.7 |
| Manganese | 4 | 8 | 9 | 12 | 8 | 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 | NR | 8 | NR | NR | 3 | 3 | TON | SM 2150B |
| Silver | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | 100 | µg/L | EPA 200.8 |
| Thiobencarb | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Zinc | 36 | 35 | 30 | 55 | 39 | 5000 | µg/L | EPA 200.8 |
| Miscellaneous Regulated Constituents | | | | | | | | |
| Oil & Grease ⁵ | <1 | <1 | <1 | <1 | -- | 1 | mg/L | EPA 1664 |
| Disinfection Byproducts | | | | | | | | |
| Bromate | <1 | <5 | <5 | <5 | <4 | 10 | µg/L | EPA 300.1/317 |
| Chlorite | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 1 | mg/L | EPA 300.0 |
| Alternative Compliance Point Data | | | | | | | | |
| | 8TH-LYS-25 | SSV-2 | 8TH-LYS-25 | BH-1/2 | <==TTHMs | | | |
| | 8TH-LYS-25 | SSV-2 | 8TH-LYS-25 | BH-1/2 | <==HAA5 | | | |
| | 2Q22 | 3Q22 | 4Q22 | 1Q23 | | | | |
| Total Trihalomethanes (TTHMs) | 4 | 40 | <2 | 12 | 15 | 80 | µg/L | EPA 524.2 |
| Total Haloacetic Acids (HAA5) | <2 | <2 | <2 | <2 | <2 | 60 | µg/L | S6251B |

NR: Not required this quarter

NA: Not analyzed by contract lab

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 | 2Q22 | 3Q22 | 4Q22 | 1Q23 | 4Q Run. Avg. ¹ | Limit | Unit | Method |
|---|---------------|---------------|---------------|---------------|---------------------------|-------------------|------|----------------|
| Inorganic Chemicals | | | | | | | | |
| Aluminum | 64 | 162 | 71 | 120 | 104 | 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 | NR | NR | NR | NR | <0.2 | 7 | MFL | EPA 100.2 |
| Barium | 11 | 16 | 15 | 12 | 14 | 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 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 50 | µg/L | EPA 200.8 |
| Chromium VI ² | 0.4 | 0.5 | 0.3 | 0.2 | 0.4 | 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 | <0.025 | <0.025 | <0.025 | <0.025 | 2 | µg/L | EPA 245.1 |
| Nickel | 4 | 3 | 3 | 3 | 3 | 100 | µg/L | EPA 200.8 |
| Perchlorate | <2 | <2 | <2 | <2 | <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 | <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-Dichloropropene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 300 | µg/L | EPA 524.2 |
| Monochlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 524.2 |
| Methyl-tert-butyl ether | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 13 | µg/L | EPA 524.2 |
| Styrene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 100 | µg/L | EPA 524.2 |
| 1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 524.2 |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Toluene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,2,4-Trichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 200 | µg/L | EPA 524.2 |
| 1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichlorofluoromethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1200 | µg/L | EPA 524.2 |
| Vinyl Chloride | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| m,p-Xylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1750 ³ | µg/L | EPA 524.2 |
| o-Xylene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | | µg/L | EPA 524.2 |
| 1,2,3-Trichloropropane (added 7/2017) | see 2Q22 text | see 3Q22 text | see 4Q22 text | see 1Q23 text | <0.005 | 0.005 | µg/L | CASRL 524M-TCP |
| Non-Volatile Synthetic Organic Chemicals (SOCs) | | | | | | | | |
| Alachlor (Alanex) | <0.1 | NA | <0.1 | <0.1 | <0.1 | 2 | µg/L | EPA 505 |
| Atrazine | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Bentazon | <0.5 | NA | <0.5 | 0.6 | <0.5 | 18 | µg/L | EPA 515.4 |
| Benzo(a)pyrene | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 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 | 0.5 | <0.1 | <0.2 | 70 | µg/L | EPA 515.4 |
| Dalapon | 4 | <1 | <1 | 4 | 2 | 200 | µg/L | EPA 515.4 |
| Dibromochloropropane | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.2 | µg/L | EPA 504.1 |
| Di(2-ethylhexyl)adipate | <0.5 | <0.5 | <0.5 | <0.5 | <0.6 | 400 | µg/L | EPA 525.2 |
| Di(2-ethylhexyl)phthalate | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 525.2 |
| Dinoseb | <0.2 | <0.1 | <0.1 | <0.1 | <0.1 | 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 | NA | <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 | 2Q22 | 3Q22 | 4Q22 | 1Q23 | 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 | NA | <6 | <6 | <6 | <6 | 700 | µg/L | EPA 547 |
| Heptachlor | <0.01 | NA | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Heptachlor Epoxide | <0.01 | NA | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Hexachlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Hexachlorocyclopentadiene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 50 | µg/L | EPA 525.2 |
| Lindane | <0.01 | NA | <0.01 | <0.01 | <0.01 | 0.2 | µg/L | EPA 505 |
| Methoxychlor | <0.05 | NA | <0.05 | <0.05 | <0.05 | 30 | µg/L | EPA 505 |
| Molinate | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 20 | µg/L | EPA 525.2 |
| Oxamyl | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 50 | µg/L | EPA 531.2 |
| Pentachlorophenol | <0.04 | <0.04 | <0.04 | 0.08 | <0.05 | 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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 525.2 |
| Thiobencarb | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 525.2 |
| Toxaphene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3 | µg/L | EPA 505 |
| 2,3,7,8-TCDD (Dioxin) | <5 | <5 | <5 | <5 | <5 | 30 | pg/L | EPA 1613 |
| 2,4,5-TP (Silvex) | <0.2 | <0.1 | <0.1 | <0.2 | <0.2 | 50 | µg/L | EPA 515.4 |
| Action Level Chemicals | | | | | | | | |
| Copper | 3.2 | 3.9 | 3.8 | 5.0 | 4.0 | 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 | <3 | <3 | Sample Interference | <3 | <3 | 5 | pCi/L | EPA 903.0 |
| Gross Alpha Particle Activity | <3 | 7 | 5 | <3 | 4 | 15 | pCi/L | EPA 900.0/SM7110C |
| Tritium | <1000 | <1000 | <335 | <251 | <1000 | 20,000 | pCi/L | EPA 906 |
| Strontium-90 | <2 | <3 | <3 | <3 | <3 | 8 | pCi/L | EPA 905 |
| Gross Beta Particle Activity | 8 | 10 | 12 | 8 | 9 | 50 | pCi/L | EPA 900.0 |
| Uranium | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | 20 | pCi/L | EPA 200.8 |
| Secondary Maximum Contaminant Level Chemicals | | | | | | | | |
| Aluminum | 64 | 162 | 71 | 120 | 104 | 200 | µg/L | EPA 200.8 |
| Copper | 3.2 | 3.9 | 3.8 | 5.0 | 4.0 | 1000 | µg/L | EPA 200.8 |
| Corrosivity | 0.3 (Non-Cor.) | 0.2 (Non-Cor.) | NR | -0.5 (Non-Cor.) | Non-Cor. | Non-Cor. | SI | SM 2330B |
| Foaming Agents (MBAS) ⁴ | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | mg/L | S5540C/EPA 425.1 |
| Iron ⁴ | <150 | <150 | <150 | <150 | 47 | 300 | µg/L | EPA 200.7 |
| Manganese | 4 | 13 | 11 | 3 | 8 | 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 | NR | 6 | NR | NR | 6 | 3 | TON | SM 2150B |
| Silver | <0.25 | <0.25 | <0.25 | <0.25 | <0.25 | 100 | µg/L | EPA 200.8 |
| Thiobencarb | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Zinc | 38 | 29 | 28 | 36 | 33 | 5000 | µg/L | EPA 200.8 |
| Miscellaneous Regulated Constituents | | | | | | | | |
| Oil & Grease ⁵ | <1 | <1 | <1 | <1 | -- | 1 | mg/L | EPA 1664 |
| Disinfection Byproducts | | | | | | | | |
| Bromate | <1 | <5 | <5 | <5 | <4 | 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 by contract lab

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 | 1Q23 | Unit | Method | Constituent | 1Q23 | Unit | Method | | | |
|-----------------------------------|------|------|---------------|---|-----------|------|-----------------|---------|------|-------------|
| Volatile Organic Chemicals (VOCs) | | | | Pesticides | | | | | | |
| Acrolein | NR | µg/L | EPA 624 | Aldrin | <0.01 | µg/L | EPA 505/525/608 | | | |
| Acrylonitrile | NR | µg/L | EPA 624 | BHC, alpha isomer | NR | µg/L | EPA 525/608 | | | |
| Bromoform | <0.5 | µg/L | EPA 524.2/624 | BHC, beta isomer | NR | µg/L | EPA 525/608 | | | |
| Chlorodibromomethane | 2.6 | µg/L | EPA 524.2/624 | BHC, delta isomer | NR | µg/L | EPA 525/608 | | | |
| Chloroethane | <0.5 | µg/L | EPA 524.2/624 | 4,4'-DDT | NR | µg/L | EPA 525/608 | | | |
| 2-Chloroethylvinylether | NR | µg/L | EPA 524.2/624 | 4,4'-DDE | NR | µg/L | EPA 525/608 | | | |
| Chloroform | 78 | µg/L | EPA 524.2/624 | 4,4'-DDD | NR | µg/L | EPA 525/608 | | | |
| Dichlorobromomethane | 18 | µg/L | EPA 524.2/624 | Dieldrin | <0.01 | µg/L | EPA 505/525/608 | | | |
| Methyl Bromide | <0.5 | µg/L | EPA 524.2/624 | Endosulfan I | NR | µg/L | EPA 525/608 | | | |
| Methyl Chloride | <0.5 | µg/L | EPA 524.2/624 | Endosulfan II | NR | µg/L | EPA 525/608 | | | |
| Acid Extractibles | | | | Endosulfan Sulfate | | | | NR | µg/L | EPA 525/608 |
| 2-Chlorophenol | NR | µg/L | EPA 625 | Chemicals w/ State Notification Levels (NLs) | | | | NL | | |
| 2,4-Dichlorophenol | NR | µg/L | EPA 625 | Boron | 0.4 | mg/L | EPA 200.7 | 1 | | |
| 2,4-Dimethylphenol | NR | µg/L | EPA 625 | n-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 | | |
| 2-Methyl-4,6-dinitrophenol | NR | µg/L | EPA 625 | sec-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 | | |
| 2,4-Dinitrophenol | NR | µg/L | EPA 625 | tert-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 | | |
| 2-Nitrophenol | NR | µg/L | EPA 625 | Carbon disulfide | <0.5 | µg/L | EPA 524.2 | 160 | | |
| 4-Nitrophenol | NR | µg/L | EPA 625 | Chlorate* (RW Blend / BH-1/2) | 336 / 136 | µg/L | EPA 300.0 | 800 | | |
| 4-Chloro-3-methylphenol | NR | µg/L | EPA 625 | 2-Chlorotoluene | <0.5 | µg/L | EPA 524.2 | 140 | | |
| Phenol | NR | µg/L | EPA 625 | 4-Chlorotoluene | <0.5 | µg/L | EPA 524.2 | 140 | | |
| 2,4,6-Trichlorophenol | NR | µg/L | EPA 625 | Diazinon | <0.5 | µg/L | EPA 525.2 | 1.2 | | |
| Base/Neutral Extractibles | | | | Dichlorodifluoromethane (Freon 12) | <0.5 | µg/L | EPA 524.2 | 1000 | | |
| Acenaphthene | NR | µg/L | EPA 625 | 1,4 - Dioxane | <1 | µg/L | EPA 522 | 1 | | |
| Acenaphthylene | NR | µg/L | EPA 625 | Ethylene glycol | <5 | mg/L | EPA 8015B | 14 | | |
| Anthracene | NR | µg/L | EPA 625 | Formaldehyde | 35 | µg/L | EPA 556 | 100 | | |
| Benzidine | NR | µg/L | EPA 625 | HMX | <0.1 | µg/L | EPA 8330B | 350 | | |
| Benzo(a)anthracene | NR | µg/L | EPA 625 | Isopropylbenzene | <0.5 | µg/L | EPA 524.2 | 770 | | |
| Benzo(b)fluoranthene | NR | µg/L | EPA 625 | Manganese | 12 | µg/L | EPA 200.8 | 500 | | |
| Benzo(g,h,i)perylene | NR | µg/L | EPA 625 | Methyl isobutyl ketone (MIBK) | <2 | µg/L | EPA 524.2 | 120 | | |
| Benzo(k)fluoranthene | NR | µg/L | EPA 625 | Naphthalene | <0.5 | µg/L | EPA 525.2/524.2 | 17 | | |
| Bis(2-chloroethoxy)methane | NR | µg/L | EPA 625 | N-Nitrosodiethylamine (NDEA) | <2 | ng/L | EPA 521 | 10 | | |
| Bis(2-chloroethyl)ether | NR | µg/L | EPA 625 | N-Nitrosodimethylamine (NDMA) | <2 | ng/L | EPA 521 | 10 | | |
| Bis(2-chloroisopropyl)ether | NR | µg/L | EPA 625 | N-Nitrosodi-n-propylamine (NDPA) | <2 | ng/L | EPA 521 | 10 | | |
| 4-Bromophenyl phenyl ether | NR | µg/L | EPA 625 | Perfluorobutanesulfonic acid (PFBS) | 2.5 | ng/L | EPA 537.1 | 500 | | |
| Butyl benzyl phthalate | NR | µg/L | EPA 625 | Perfluorohexanesulfonic acid (PFHxS) | 0.9 | ng/L | EPA 537.1 | 3.0 | | |
| 2-Chloronaphthalene | NR | µg/L | EPA 625 | Perfluorooctanoic acid (PFOA)** | 10.6 | ng/L | EPA 537.1 | 5.1 | | |
| 4-Chlorophenyl phenyl ether | NR | µg/L | EPA 625 | Perfluorooctanesulfonic acid (PFOS) | 1.4 | ng/L | EPA 537.1 | 6.5 | | |
| Chrysene | NR | µg/L | EPA 625 | Propachlor | <0.5 | µg/L | EPA 525.2 | 90 | | |
| Dibenzo(a,h)anthracene | NR | µg/L | EPA 625 | N-propylbenzene | <0.5 | µg/L | EPA 524.2 | 200 | | |
| 1,3-Dichlorobenzene | NR | µg/L | EPA 625 | Tertiary butyl alcohol | <2 | µg/L | EPA 524.2 | 12 | | |
| 3,3-Dichlorobenzidine | NR | µg/L | EPA 625 | 1,2,4-trimethylbenzene | <0.5 | µg/L | EPA 524.2 | 330 | | |
| Diethyl phthalate | NR | µg/L | EPA 625 | 1,3,5-trimethylbenzene | <0.5 | µg/L | EPA 524.2 | 330 | | |
| Dimethyl phthalate | NR | µg/L | EPA 625 | 2,4,6-Trinitrotoluene | <0.1 | µg/L | EPA 8330B | 1 | | |
| Di-n-butyl phthalate | NR | µg/L | EPA 625 | Vanadium | <5 | µg/L | EPA 200.8 | 50 | | |
| 2,4-Dinitrotoluene | NR | µg/L | EPA 625 | Health-based and performance indicator CECs for Surface Application | | | | RP3-1/1 | | |
| 2,6-Dinitrotoluene | NR | µg/L | EPA 625 | 1,4 - Dioxane | <1 | µg/L | EPA 522 | <0.36 | | |
| Di-n-octyl phthalate | NR | µg/L | EPA 625 | N-nitrosodimethylamine (NDMA) | <2 | ng/L | EPA 521 | <2 | | |
| Azobenzene | NR | µg/L | EPA 625 | N-Nitrosomorpholine | 3.8 | ng/L | EPA 521 | 4.1 | | |
| Fluoranthene | NR | µg/L | EPA 625 | Perfluorooctanesulfonic acid (PFOS) | 1.4 | ng/L | EPA 537.1 | 13.7 | | |
| Fluorene | NR | µg/L | EPA 625 | Perfluorooctanoic acid (PFOA) | 10.6 | ng/L | EPA 537.1 | 16.1 | | |
| Hexachlorobutadiene | NR | µg/L | EPA 625 | Gemfibrozil | <5 | ng/L | LC-MS-MS | <4 | | |
| Hexachlorocyclopentadiene | NR | µg/L | EPA 625 | Iohexol | 7400 | ng/L | LC-MS-MS | NA | | |
| Hexachloroethane | NR | µg/L | EPA 625 | Sucralose | 89000 | ng/L | LC-MS-MS | NA | | |
| Indeno(1,2,3-cd)pyrene | NR | µg/L | EPA 625 | Sulfamethoxazole | NA | ng/L | LC-MS-MS | 27 | | |
| Isophorone | NR | µg/L | EPA 625 | ER-α (RW Blend / RP3-1/1) | <0.5 | ng/L | Trussell Tech | <0.5 | | |
| Naphthalene | NR | µg/L | EPA 625 | AhR (method pending approval) | -- | ng/L | Trussell Tech | -- | | |
| Nitrobenzene | NR | µg/L | EPA 625 | NA: Not available from EEA Lab at time of reporting | | | | | | |
| N-Nitroso-di-n-propylamine | NR | µg/L | EPA 625 | | | | | | | |
| N-Nitrosodiphenylamine | NR | µg/L | EPA 625 | | | | | | | |
| Phenanthrene | NR | µg/L | EPA 625 | | | | | | | |
| Pyrene | NR | µg/L | EPA 625 | | | | | | | |

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

*Pursuant to the GRRP regulations,

**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 | 1Q23 | Unit | Method | Constituent | 1Q23 | Unit | Method | |
|-----------------------------------|------|------|---------------|---|-----------|------|---------------|---------|
| Volatile Organic Chemicals (VOCs) | | | | Pesticides | | | | |
| Acrolein | 2.0 | µg/L | EPA 624 | Aldrin | <0.01 | µg/L | EPA 505/608 | |
| Acrylonitrile | 0.51 | µg/L | EPA 624 | BHC, alpha isomer | NR | µg/L | EPA 525/608 | |
| Bromoform | <0.5 | µg/L | EPA 524.2/624 | BHC, beta isomer | NR | µg/L | EPA 525/608 | |
| Chlorodibromomethane | 4.0 | µg/L | EPA 524.2/624 | BHC, delta isomer | NR | µg/L | EPA 525/608 | |
| Chloroethane | <0.5 | µg/L | EPA 524.2/624 | 4,4'-DDT | NR | µg/L | EPA 525/608 | |
| 2-Chloroethylvinylether | <1 | µg/L | EPA 524.2/624 | 4,4'-DDE | NR | µg/L | EPA 525/608 | |
| Chloroform | 62 | µg/L | EPA 524.2/624 | 4,4'-DDD | NR | µg/L | EPA 525/608 | |
| Dichlorobromomethane | 19 | µg/L | EPA 524.2/624 | Dieldrin | <0.01 | µg/L | EPA 505/608 | |
| Methyl Bromide | <0.5 | µg/L | EPA 524.2/624 | Endosulfan I | NR | µg/L | EPA 525/608 | |
| Methyl Chloride | <0.5 | µg/L | EPA 524.2/624 | Endosulfan II | NR | µg/L | EPA 525/608 | |
| Acid Extractibles | | | | Endosulfan Sulfate | NR | µg/L | EPA 525/608 | |
| 2-Chlorophenol | <5 | µg/L | EPA 625 | Chemicals w/ State Notification Levels (NLs) | | | | NL |
| 2,4-Dichlorophenol | <5 | µg/L | EPA 625 | Boron | 0.4 | mg/L | EPA 200.7 | 1 |
| 2,4-Dimethylphenol | <2 | µg/L | EPA 625 | n-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 |
| 2-Methyl-4,6-dinitrophenol | <5 | µg/L | EPA 625 | sec-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 |
| 2,4-Dinitrophenol | <5 | µg/L | EPA 625 | tert-butylbenzene | <0.5 | µg/L | EPA 524.2 | 260 |
| 2-Nitrophenol | <10 | µg/L | EPA 625 | Carbon disulfide | <0.5 | µg/L | EPA 524.2 | 160 |
| 4-Nitrophenol | <10 | µg/L | EPA 625 | Chlorate* (001B Eff / BH-1/2) | 165 / 136 | µg/L | EPA 300.0 | 800 |
| 4-Chloro-3-methylphenol | <1 | µg/L | EPA 625 | 2-Chlorotoluene | <0.5 | µg/L | EPA 524.2 | 140 |
| Phenol | <1 | µg/L | EPA 625 | 4-Chlorotoluene | <0.5 | µg/L | EPA 524.2 | 140 |
| 2,4,6-Trichlorophenol | <10 | µg/L | EPA 625 | Diazinon | 0.05 | µg/L | EPA 525.2 | 1.2 |
| Base/Neutral Extractibles | | | | Dichlorodifluoromethane (Freon 12) | <0.5 | µg/L | EPA 524.2 | 1000 |
| Acenaphthene | <1 | µg/L | EPA 625 | 1,4 - Dioxane | <1 | µg/L | EPA 522 | 1 |
| Acenaphthylene | <10 | µg/L | EPA 625 | Ethylene glycol | <5 | mg/L | EPA 8015B | 14 |
| Anthracene | <10 | µg/L | EPA 625 | Formaldehyde | 32 | µg/L | EPA 556 | 100 |
| Benzidine | <5 | µg/L | EPA 625 | HMX | <1 | µg/L | EPA 8330B | 350 |
| Benzo(a)anthracene | <5 | µg/L | EPA 625 | Isopropylbenzene | <0.5 | µg/L | EPA 524.2 | 770 |
| Benzo(b)fluoranthene | <10 | µg/L | EPA 625 | Manganese | 3 | µg/L | EPA 200.8 | 500 |
| Benzo(g,h,i)perylene | <5 | µg/L | EPA 625 | Methyl isobutyl ketone (MIBK) | <2 | µg/L | EPA 524.2 | 120 |
| Benzo(k)fluoranthene | <10 | µg/L | EPA 625 | Naphthalene | <0.5 | µg/L | EPA 524.2 | 17 |
| Bis(2-chloroethoxy)methane | <5 | µg/L | EPA 625 | N-Nitrosodiethylamine (NDEA) | <2 | ng/L | EPA 521 | 10 |
| Bis(2-chloroethyl)ether | <1 | µg/L | EPA 625 | N-Nitrosodimethylamine (NDMA) | <2 | ng/L | EPA 521 | 10 |
| Bis(2-chloroisopropyl)ether | <2 | µg/L | EPA 625 | N-Nitrosodi-n-propylamine (NDPA) | <2 | ng/L | EPA 521 | 10 |
| 4-Bromophenyl phenyl ether | <5 | µg/L | EPA 625 | Perfluorobutanesulfonic acid (PFBS) | 0.8 | ng/L | EPA 537.1 | 500 |
| Butyl benzyl phthalate | <10 | µg/L | EPA 625 | Perfluorohexanesulfonic acid (PFHxS) | 1.2 | ng/L | EPA 537.1 | 3.0 |
| 2-Chloronaphthalene | <10 | µg/L | EPA 625 | Perfluorooctanoic acid (PFOA)** | 6.0 | ng/L | EPA 537.1 | 5.1 |
| 4-Chlorophenyl phenyl ether | <5 | µg/L | EPA 625 | Perfluorooctanesulfonic acid (PFOS) | 2.1 | ng/L | EPA 537.1 | 6.5 |
| Chrysene | <10 | µg/L | EPA 625 | Propachlor | <0.5 | µg/L | EPA 525.2 | 90 |
| Dibenzo(a,h)anthracene | <10 | µg/L | EPA 625 | N-propylbenzene | <0.5 | µg/L | EPA 524.2 | 200 |
| 1,3-Dichlorobenzene | <1 | µg/L | EPA 625 | Tertiary butyl alcohol | <2 | µg/L | EPA 524.2 | 12 |
| 3,3-Dichlorobenzidine | <5 | µg/L | EPA 625 | 1,2,4-trimethylbenzene | <0.5 | µg/L | EPA 524.2 | 330 |
| Diethyl phthalate | <2 | µg/L | EPA 625 | 1,3,5-trimethylbenzene | <0.5 | µg/L | EPA 524.2 | 330 |
| Dimethyl phthalate | <2 | µg/L | EPA 625 | 2,4,6-Trinitrotoluene | <0.1 | µg/L | EPA 8330B | 1 |
| Di-n-butyl phthalate | <10 | µg/L | EPA 625 | Vanadium | 3 | µg/L | EPA 200.8 | 50 |
| 2,4-Dinitrotoluene | <5 | µg/L | EPA 625 | Health-based and performance indicator CECs for Surface Application | | | | RP3-1/1 |
| 2,6-Dinitrotoluene | <5 | µg/L | EPA 625 | 1,4 - Dioxane | <1 | µg/L | EPA 522 | <0.36 |
| Di-n-octyl phthalate | <10 | µg/L | EPA 625 | N-nitrosodimethylamine (NDMA) | <2 | ng/L | EPA 521 | <2 |
| Azobenzene | <10 | µg/L | EPA 625 | N-Nitrosomorpholine | 9.1 | ng/L | EPA 521 | 4.1 |
| Fluoranthene | <1 | µg/L | EPA 625 | Perfluorooctanesulfonic acid (PFOS) | 2.1 | ng/L | EPA 537.1 | 13.7 |
| Fluorene | <10 | µg/L | EPA 625 | Perfluorooctanoic acid (PFOA) | 6.0 | ng/L | EPA 537.1 | 16.1 |
| Hexachlorobutadiene | <1 | µg/L | EPA 625 | Gemfibrozil | NA | ng/L | LC-MS-MS | <4 |
| Hexachlorocyclopentadiene | <5 | µg/L | EPA 625 | Iohexol | NA | ng/L | LC-MS-MS | NA |
| Hexachloroethane | <1 | µg/L | EPA 625 | Sucralose | NA | ng/L | LC-MS-MS | NA |
| Indeno(1,2,3-cd)pyrene | <10 | µg/L | EPA 625 | Sulfamethoxazole | NA | ng/L | LC-MS-MS | 27 |
| Isophorone | <1 | µg/L | EPA 625 | ER-α | <0.5 | ng/L | Trussell Tech | <0.5 |
| Naphthalene | <1 | µg/L | EPA 625 | AhR (method pending approval) | -- | ng/L | Trussell Tech | -- |
| Nitrobenzene | <1 | µg/L | EPA 625 | NA: Not available from EEA Lab at time of reporting | | | | |
| N-Nitroso-di-n-propylamine | <5 | µg/L | EPA 625 | | | | | |
| N-Nitrosodiphenylamine | <5 | µg/L | EPA 625 | | | | | |
| Phenanthrene | <5 | µg/L | EPA 625 | | | | | |
| Pyrene | <10 | 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 2-5
Alternative Monitoring Plans: TOC & TN

| Banana Basin | | | | | | |
|--------------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | Banana | 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 |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 1.12 | 3.4 | 3.1 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 1.06 | 4.4 | 3.9 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 1.05 | 3.5 | 4.0 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 1.11 | 3.6 | 3.6 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 1.19 | 3.1 | 3.4 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 1.22 | 2.7 | 2.9 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 1.23 | 2.3 | 2.5 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 1.19 | 2.0 | 2.2 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 1.09 | 2.6 | 2.3 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 1.20 | 2.1 | 2.4 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 1.21 | 2.4 | 2.3 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 1.25 | 2.3 | 2.4 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 1.29 | 2.3 | 2.3 |

| Hickory Basin | | | | | | |
|---------------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | Hickory | 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) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 1.06 | 4.7 | 4.3 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 1.01 | 6.0 | 5.4 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 0.99 | 4.9 | 5.4 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 1.06 | 5.0 | 4.9 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 1.13 | 4.3 | 4.6 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 1.16 | 3.7 | 4.0 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 1.16 | 3.2 | 3.5 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 1.13 | 2.8 | 3.0 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 1.04 | 3.5 | 3.2 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 1.14 | 3.0 | 3.2 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 1.15 | 3.4 | 3.2 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 1.19 | 3.2 | 3.3 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 1.22 | 3.2 | 3.2 |

| Turner Basin | | | | | | |
|--------------|-----------|--------------------|---------------------|---------------------|------------------------------|------------------------------|
| Date | RW Blend* | RW Blend* | Turner 1 & 2 | Turner 3 & 4 | 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) |
| 01/04/23 | 5.60 | 6.4 | 1.68 | 0.84 | 0.8 | 0.8 |
| 01/11/23 | 5.30 | 7.3 | 1.59 | 0.80 | 1.0 | 0.9 |
| 01/18/23 | 5.23 | 7.5 | 1.57 | 0.78 | 1.0 | 1.0 |
| 01/25/23 | 5.57 | 6.7 | 1.67 | 0.84 | 0.9 | 0.9 |
| 02/01/23 | 5.93 | 6.3 | 1.78 | 0.89 | 0.8 | 0.8 |
| 02/08/23 | 6.10 | 5.5 | 1.83 | 0.92 | 0.7 | 0.8 |
| 02/15/23 | 6.13 | 4.8 | 1.84 | 0.92 | 0.6 | 0.7 |
| 02/22/23 | 5.93 | 4.1 | 1.78 | 0.89 | 0.5 | 0.6 |
| 03/01/23 | 5.47 | 4.3 | 1.64 | 0.82 | 0.6 | 0.5 |
| 03/08/23 | 6.00 | 4.4 | 1.80 | 0.90 | 0.6 | 0.6 |
| 03/15/23 | 6.07 | 4.3 | 1.82 | 0.91 | 0.6 | 0.6 |
| 03/20/23 | 6.27 | 4.5 | 1.88 | 0.94 | 0.6 | 0.6 |
| 03/29/23 | 6.43 | 4.4 | 1.93 | 0.96 | 0.6 | 0.6 |

| Ely Basin | | | | | | |
|-----------|---------|---------|--------------------|---------------------|--------------------|--------------------|
| Date | RP-1 RW | RP-1 RW | RP-1 RW | Ely 3 East | 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) |
| 01/05/23 | 7.33 | 5.7 | 5.3 | 1.76 | 2.7 | 2.6 |
| 01/09/23 | 6.63 | 5.9 | 5.8 | 1.59 | 2.8 | 2.8 |
| 01/16/23 | 5.60 | 5.4 | 5.6 | 1.34 | 2.6 | 2.7 |
| 01/23/23 | 6.80 | 6.0 | 5.7 | 1.63 | 2.9 | 2.7 |
| 01/30/23 | 6.43 | 6.3 | 6.1 | 1.54 | 3.0 | 2.9 |
| 02/06/23 | 6.47 | 5.7 | 6.0 | 1.55 | 2.7 | 2.9 |
| 02/13/23 | 7.03 | 5.2 | 5.4 | 1.69 | 2.5 | 2.6 |
| 02/23/23 | 6.97 | 5.4 | 5.3 | 1.67 | 2.6 | 2.5 |
| 02/27/23 | 6.30 | 5.9 | 5.7 | 1.51 | 2.9 | 2.7 |
| 03/06/23 | 7.77 | 6.4 | 6.2 | 1.86 | 3.1 | 3.0 |
| 03/13/23 | 7.57 | 6.1 | 6.2 | 1.82 | 2.9 | 3.0 |
| 03/20/23 | 7.00 | 6.1 | 6.1 | 1.68 | 2.9 | 2.9 |
| 03/27/23 | 6.90 | 5.7 | 5.9 | 1.66 | 2.7 | 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.

Table 2-5
Alternative Monitoring Plans: TOC & TN

| RP3 Basin | | | | | | |
|-----------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | RP3 | 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) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 0.67 | 4.4 | 4.1 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 0.64 | 5.7 | 5.1 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 0.63 | 4.6 | 5.2 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 0.67 | 4.7 | 4.6 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 0.71 | 4.0 | 4.4 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 0.73 | 3.5 | 3.8 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 0.74 | 3.0 | 3.3 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 0.71 | 2.7 | 2.8 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 0.66 | 3.3 | 3.0 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 0.72 | 2.8 | 3.1 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 0.73 | 3.2 | 3.0 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 0.75 | 3.0 | 3.1 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 0.77 | 3.0 | 3.0 |

| 7th & 8th Street Basin | | | | | | |
|------------------------|-----------|-----------|--------------------|-----------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | 8th Street | 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) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 0.67 | 1.6 | 1.5 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 0.64 | 2.1 | 1.8 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 0.63 | 1.7 | 1.9 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 0.67 | 1.7 | 1.7 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 0.71 | 1.5 | 1.6 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 0.73 | 1.3 | 1.4 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 0.74 | 1.1 | 1.2 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 0.71 | 1.0 | 1.0 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 0.66 | 1.2 | 1.1 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 0.72 | 1.0 | 1.1 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 0.73 | 1.2 | 1.1 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 0.75 | 1.1 | 1.1 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 0.77 | 1.1 | 1.1 |

| Victoria Basin | | | | | | |
|----------------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | Victoria | 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) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 1.23 | 1.2 | 1.1 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 1.17 | 1.5 | 1.3 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 1.15 | 1.2 | 1.3 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 1.23 | 1.2 | 1.2 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 1.30 | 1.1 | 1.1 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 1.34 | 0.9 | 1.0 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 1.35 | 0.8 | 0.9 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 1.30 | 0.7 | 0.7 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 1.20 | 0.9 | 0.8 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 1.32 | 0.7 | 0.8 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 1.34 | 0.8 | 0.8 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 1.38 | 0.8 | 0.8 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 1.41 | 0.8 | 0.8 |

| Declez Basin | | | | | | |
|--------------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | Declez | Declez | Declez |
| mg/L==> | TOC | TN | TN - 2 sample avg. | TOC (62% reduction) | TN (91% reduction) | TN - 2 sample avg. |
| Limit ==> | | | 10 mg/L (DDW) | 16 mg/L | 5 mg/L | 5 mg/L (RWQCB) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 2.13 | 0.6 | 0.5 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 2.01 | 0.7 | 0.7 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 1.99 | 0.6 | 0.7 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 2.12 | 0.6 | 0.6 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 2.25 | 0.5 | 0.6 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 2.32 | 0.5 | 0.5 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 2.33 | 0.4 | 0.4 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 2.25 | 0.3 | 0.4 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 2.08 | 0.4 | 0.4 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 2.28 | 0.4 | 0.4 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 2.31 | 0.4 | 0.4 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 2.38 | 0.4 | 0.4 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 2.44 | 0.4 | 0.4 |

*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.

Table 2-5
Alternative Monitoring Plans: TOC & TN

| San Sevaine 1-3 | | | | | | |
|-----------------|-----------|-----------|--------------------|---------------------|--------------------|--------------------|
| Date | RW Blend* | RW Blend* | RW Blend* | San Sevaine 1-3 | San Sevaine 1-3 | San Sevaine 1-3 |
| mg/L==> | TOC | TN | TN - 2 sample avg. | TOC (92% reduction) | TN (34% reduction) | TN - 2 sample avg. |
| Limit ==> | | | 10 mg/L (DDW) | 16 mg/L | 5 mg/L | 5 mg/L (RWQCB) |
| 01/04/23 | 5.60 | 6.4 | 5.9 | 0.45 | 4.2 | 4.2 |
| 01/11/23 | 5.30 | 8.3 | 7.3 | 0.42 | 5.5 | 4.8 |
| 01/18/23 | 5.23 | 6.6 | 7.5 | 0.42 | 4.4 | 4.9 |
| 01/25/23 | 5.57 | 6.8 | 6.7 | 0.45 | 4.5 | 4.4 |
| 02/01/23 | 5.93 | 5.8 | 6.3 | 0.47 | 3.9 | 4.2 |
| 02/08/23 | 6.10 | 5.1 | 5.5 | 0.49 | 3.4 | 3.6 |
| 02/15/23 | 6.13 | 4.4 | 4.8 | 0.49 | 2.9 | 3.1 |
| 02/22/23 | 5.93 | 3.8 | 4.1 | 0.47 | 2.5 | 2.7 |
| 03/01/23 | 5.47 | 4.8 | 4.3 | 0.44 | 3.2 | 2.9 |
| 03/08/23 | 6.00 | 4.0 | 4.4 | 0.48 | 2.7 | 2.7 |
| 03/15/23 | 6.07 | 4.6 | 4.3 | 0.49 | 3.0 | 3.0 |
| 03/20/23 | 6.27 | 4.4 | 4.5 | 0.50 | 2.9 | 2.9 |
| 03/29/23 | 6.43 | 4.3 | 4.4 | 0.51 | 2.9 | 2.9 |

| Brooks Basin | | | |
|--------------|----------------------------------|------------|---------------|
| Date | BRK-LYS-00 | BRK-LYS-00 | BRK-LYS-00 |
| | TOC (mg/L) | TN (mg/L) | EC (µmhos/cm) |
| 02/27/23 | 4.7 | 2.6 | 331 |
| | Sample not collected due to rain | | |
| | Sample not collected due to rain | | |

| Date | BRK-LYS-25 | BRK-LYS-25 | BRK-LYS-25 |
|----------|----------------------------------|------------|---------------|
| | TOC (mg/L) | TN* (mg/L) | EC (µmhos/cm) |
| Limit==> | | | 5 mg/L |
| 02/27/23 | 3.2 | <0.6 | 538 |
| | Sample not collected due to rain | | |
| | Sample not collected due to rain | | |

| Date | BRK-1/1 | BRK-1/1 |
|----------|----------------------------------|-----------|
| | TOC* (mg/L) | TN (mg/L) |
| Limit==> | 16 mg/L | |
| 01/31/23 | 0.4 | 0.8 |
| 02/27/23 | 0.3 | 1.0 |
| | Sample not collected due to rain | |

*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 2023) | RWC _{AVG} (Mar 2023) | TOC _{AVG} Limit* (mg/L) | Jan 2023 TOC _{AVG} (mg/L) | Feb 2023 TOC _{AVG} (mg/L) | Mar 2023 TOC _{AVG} (mg/L) | 1Q23 TN Limit** | Recharged Water Monitoring Plan |
|--|---------------------|--------------|----------------------|-------------|------------------------------|-------------------------------|----------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------|---|
| 7 th & 8 th Street | Sep-07 | Dec-10 | 05/23/11 | 50% | 187 | 24% | 2.1 | 0.7 | 0.7 | 0.7 | 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% | 213 | 33% | 1.5 | 1.1 | 1.2 | 1.2 | 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% | 176 | 14% | 3.6 | 0.4 | 0.3 | 0.0 | Met | Alternative monitoring: <u>Monthly</u> lysimeter monitoring at 0- and 25-foot 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). |
| Decluz | Dec-15 | Sep-16 | 05/21/18 | initial 20% | 88 | 7% | 7.1 | 2.1 | 2.2 | 2.4 | Met | Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 62% and TN reduction of 91% |
| Ely | RW initiated Sep-99 | NA | NA | 50% | 283 | 25% | 2.0 | 1.6 | 1.6 | 1.8 | 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% | 211 | 19% | 2.6 | 1.0 | 1.1 | 1.2 | 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% | 166 | 25% | 2.0 | 0.7 | 0.7 | 0.7 | Met | Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 31% |
| San Sevaine 1-3 | Aug-20 | Sep-21 | 02/08/22 | 50% | 32 | 18% | 2.8 | 0.4 | 0.5 | 0.5 | Met | Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 92% and TN reduction of 34% |
| Turner 1&2 | Dec-06 | May-07 | 07/03/08 | 24% | 196 | 24% | 2.1 | 1.6 | 1.8 | 1.9 | 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% | 196 | 25% | 2.0 | 0.8 | 0.9 | 0.9 | 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% | 151 | 27% | 1.9 | 1.2 | 1.3 | 1.4 | 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 10 mg/L based on a two-sample average.

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

| Constituent | Stormwater | Stormwater | Stormwater | Stormwater | Max Level to Trigger Source Water Evaluation | Unit | Method |
|--|--|---|--|--|--|----------|---------------------|
| | Declez Channel @ Declez Basin 01/19/23 | Etiwanda Creek @ Etiwanda Debris Basin 01/18/23 | San Sevaine Creek @ San Sevaine 1-5 01/18/23 | W. Fontana Channel @ Banana Basin 01/19/23 | | | |
| NO ₂ -N | <0.05 | <0.05 | <0.05 | <0.05 | 1 | mg/L | EPA 300.0 |
| NO ₃ -N | 0.7 | 0.1 | 0.2 | 0.2 | 10 | mg/L | EPA 300.0 |
| TDS | 82 | 130 | 168 | 33 | 1000 | mg/L | SM 2540C |
| Total Coliform | >1600 | 18 | 700 | >1600 | - | mpn/100m | SM 9221B |
| Oil & Grease | 2 | 4 | 4 | 2 | - | mg/L | EPA 1664A |
| Inorganic Chemicals | | | | | | | |
| Aluminum | 1869 | 64 | 129 | 1010 | 1000 | µg/L | EPA 200.7 |
| Antimony | <1 | <1 | <1 | <1 | 6 | µg/L | EPA 200.8 |
| Arsenic | 3 | <2 | <2 | <2 | 10 | µg/L | EPA 200.8 |
| Asbestos | <2.1 | <0.19 | <0.42 | <1.1 | 7 | MFL | EPA 100.2 |
| Barium | 25 | 24 | 29 | 17 | 1000 | µg/L | EPA 200.7 |
| Beryllium | <0.5 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 200.7 |
| Cadmium | <0.25 | 0.25 | <0.25 | <0.25 | 5 | µg/L | EPA 200.7 |
| Chromium | 3.0 | 0.9 | 0.9 | 3.2 | 50 | µg/L | EPA 200.7 |
| Chromium VI | 0.30 | 0.03 | 0.10 | 0.73 | 10 | µg/L | EPA 218.6 |
| Cyanide | <20 | <20 | <20 | <20 | 150 | µg/L | ASTM D7284/OIA-1677 |
| Fluoride | <0.1 | 0.1 | <0.1 | 0.1 | 2 | mg/L | SM 4500-F C |
| Mercury | <0.5 | <0.5 | <0.5 | <0.5 | 2 | µg/L | EPA 245.2 |
| Nickel | 3 | 1 | 2 | 2 | 100 | µg/L | EPA 200.7 |
| Perchlorate | <2 | <2 | <2 | <2 | 6 | µg/L | EPA 314 |
| Selenium | <2 | <2 | <2 | <2 | 50 | µg/L | EPA 200.8 |
| Thallium | <1 | <1 | <1 | <1 | 2 | µg/L | EPA 200.8 |
| Volatile Organic Chemicals (VOCs) | | | | | | | |
| Benzene | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 524.2 |
| Carbon Tetrachloride | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| 1,2-Dichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | 600 | µg/L | EPA 524.2 |
| 1,4-Dichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,1-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,2-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| 1,1-Dichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | 6 | µg/L | EPA 524.2 |
| cis-1,2-Dichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | 6 | µg/L | EPA 524.2 |
| trans-1,2-Dichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | 10 | µg/L | EPA 524.2 |
| Dichloromethane | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,2-Dichloropropane | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,3-Dichloropropene | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 300 | µg/L | EPA 524.2 |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 524.2 |
| Methyl Tert-butyl ether (MTBE) | <0.5 | <0.5 | <0.5 | <0.5 | 13 | µg/L | EPA 524.2 |
| Styrene | <0.5 | <0.5 | <0.5 | <0.5 | 100 | µg/L | EPA 524.2 |
| 1,1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 524.2 |
| Tetrachloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Toluene | <0.5 | <0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,2,4-Trichlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | 200 | µg/L | EPA 524.2 |
| 1,1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichloroethylene | <0.5 | <0.5 | <0.5 | <0.5 | 5 | µg/L | EPA 524.2 |
| Trichlorofluoromethane | <0.5 | <0.5 | <0.5 | <0.5 | 150 | µg/L | EPA 524.2 |
| 1,1,1,2-Trichloro-1,2,2-Trifluoroethane | <0.5 | <0.5 | <0.5 | <0.5 | 1200 | µg/L | EPA 524.2 |
| Vinyl Chloride | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | µg/L | EPA 524.2 |
| Total Xylenes | 0.6 | <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 | µg/L | CASRL 524M-TCP |
| Non-Volatile Synthetic Organic Chemicals (SOCs) | | | | | | | |
| Alachlor (Alanex) | <0.1 | <0.1 | <0.1 | <0.1 | 2 | µg/L | EPA 505 |
| Atrazine | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Bentazon | <0.5 | <0.5 | <0.5 | <0.5 | 18 | µg/L | EPA 515.4 |
| Benzo(a)pyrene | <0.1 | <0.1 | <0.1 | <0.1 | 0.2 | µg/L | EPA 525.2 |
| Carbofuran | <0.5 | <0.5 | <0.5 | <0.5 | 18 | µg/L | EPA 531.2 |
| Chlordane | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | µg/L | EPA 505 |
| 2,4-D | <0.1 | <0.1 | <0.1 | <0.1 | 70 | µg/L | EPA 515.4 |
| Dalapon | <1 | <1 | <1 | <1 | 200 | µg/L | EPA 515.4 |
| Dibromochloropropane | <0.01 | <0.01 | <0.01 | <0.01 | 0.2 | µg/L | EPA 504.1 |
| Di(2-ethylhexyl)adipate | <0.5 | <0.5 | <0.5 | <0.5 | 400 | µg/L | EPA 525.2 |
| Di(2-ethylhexyl)phthalate | 0.8 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 525.2 |
| Dinoseb | <0.2 | <0.2 | <0.1 | <0.2 | 7 | µg/L | EPA 515.4 |
| Diquat | <0.4 | <0.4 | <0.4 | <0.4 | 20 | µg/L | EPA 549.2 |
| Endothall | <5 | <5 | <5 | <5 | 100 | µg/L | EPA 548.1 |
| Endrin | <0.01 | <0.01 | <0.01 | <0.01 | 2 | µg/L | EPA 505 |
| Ethylene Dibromide | <0.01 | <0.01 | <0.01 | <0.01 | 0.05 | µg/L | EPA 504.1 |
| Glyphosate | <6 | <6 | 9 | <6 | 700 | µg/L | EPA 547 |
| Heptachlor | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Heptachlor Epoxide | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | µg/L | EPA 505 |
| Hexachlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | 1 | µg/L | EPA 525.2 |
| Hexachlorocyclopentadiene | <0.5 | <0.5 | <0.5 | <0.5 | 50 | µg/L | EPA 525.2 |
| Lindane | <0.01 | <0.01 | <0.01 | <0.01 | 0.2 | µg/L | EPA 505 |

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

| Constituent | Stormwater | Stormwater | Stormwater | Stormwater | Max Level to Trigger Source Water Evaluation | Unit | Method |
|---|--|---|--|--|--|-------|-------------------|
| | Declez Channel @ Declez Basin 01/19/23 | Etiwanda Creek @ Etiwanda Debris Basin 01/18/23 | San Sevaine Creek @ San Sevaine 1-5 01/18/23 | W. Fontana Channel @ Banana Basin 01/19/23 | | | |
| Methoxychlor | <0.05 | <0.05 | <0.05 | <0.05 | 30 | µg/L | EPA 505 |
| Molinate | <0.5 | <0.5 | <0.5 | <0.5 | 20 | µg/L | EPA 525.2 |
| Oxamyl | <0.5 | <0.5 | <0.5 | <0.5 | 50 | µg/L | EPA 531.2 |
| Pentachlorophenol | 0.07 | <0.04 | <0.04 | 0.19 | 1 | µg/L | EPA 515.4 |
| Picloram | <0.1 | <0.1 | <0.1 | <0.1 | 500 | µg/L | EPA 515.4 |
| PCB 1016 | <0.08 | <0.08 | <0.08 | <0.08 | 0.5 | µg/L | EPA 505 |
| PCB 1221 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| PCB 1232 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| PCB 1242 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| PCB 1248 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| PCB 1254 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| PCB 1260 | <0.1 | <0.1 | <0.1 | <0.1 | 0.5 | µg/L | EPA 505 |
| Simazine | <0.5 | <0.5 | <0.5 | <0.5 | 4 | µg/L | EPA 525.2 |
| Thiobencarb | <0.5 | <0.5 | <0.5 | <0.5 | 70 | µg/L | EPA 525.2 |
| Toxaphene | <0.5 | <0.5 | <0.5 | <0.5 | 3 | µg/L | EPA 505 |
| 2,3,7,8-TCDD (Dioxin) | <4 | <4 | <4 | <4 | 30 | pg/L | EPA 1613 |
| 2,4,5-TP (Silvex) | <0.2 | <0.2 | <0.1 | <0.2 | 50 | µg/L | EPA 515.4 |
| Disinfection Byproducts | | | | | | | |
| Total Trihalomethanes (TTHMs) | <2 | <2 | <2 | <2 | 80 | µg/L | EPA 524.2/624 |
| Total Haloacetic Acids (HAA5) | <2 | <2 | <2 | 2 | 60 | µg/L | SM 6251B |
| Bromate | <5 | <5 | <5 | <5 | 10 | µg/L | EPA 300.1/317 |
| Chlorite | <10 | <10 | <10 | <10 | 1 | µg/L | EPA 300.0 |
| Action Level Chemicals | | | | | | | |
| Copper | 7 | 2 | 2 | 12 | 1300 | µg/L | EPA 200.7 |
| Lead | 2.7 | <0.5 | <0.5 | 4.5 | 15 | µg/L | EPA 200.8 |
| Radionuclides | | | | | | | |
| Combined Radium-226 & Radium 228 | <3 | <3 | <3 | <3 | 5 | pCi/L | EPA 903.0 |
| Gross Alpha Particle Activity | <3 | <3 | <3 | <3 | 15 | pCi/L | EPA 900.0/SM7110C |
| Tritium | <1000 | <1000 | <1000 | <1000 | 20,000 | pCi/L | EPA 906.0 |
| Strontium-90 | 0.5 | 0.7 | 0.2 | 0.3 | 8 | pCi/L | EPA 905.0 |
| Gross Beta Particle Activity | 1 | 2 | 1 | 1 | 50 | pCi/L | EPA 900.0 |
| Uranium | <1 | <1 | <1 | <1 | 20 | pCi/L | EPA 200.8 |
| Chemicals w/ State Notification Levels | | | | | | | |
| Boron | <0.1 | <0.1 | <0.1 | <0.1 | 1 | mg/L | EPA 200.7 |
| n-butylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 260 | µg/L | EPA 524.2 |
| sec-butylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 260 | µg/L | EPA 524.2 |
| tert-butylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 260 | µg/L | EPA 524.2 |
| Carbon disulfide | <0.5 | <0.5 | <0.5 | <0.5 | 160 | µg/L | EPA 524.2 |
| Chlorate | 76 | <20 | 46 | 26 | 800 | µg/L | EPA 300.0 |
| 2-Chlorotoluene | <0.5 | <0.5 | <0.5 | <0.5 | 140 | µg/L | EPA 524.2 |
| 4-Chlorotoluene | <0.5 | <0.5 | <0.5 | <0.5 | 140 | µg/L | EPA 524.2 |
| Diazinon | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | µg/L | EPA 525.2 |
| Dichlorodifluoromethane (Freon 12) | <0.5 | <0.5 | <0.5 | <0.5 | 1000 | µg/L | EPA 524.2 |
| 1,4 - Dioxane | <1 | <1 | <1 | <1 | 1 | µg/L | EPA 522 |
| Ethylene glycol | NS | NS | NS | NS | 14 | mg/L | EPA 8015B/504.1 |
| Formaldehyde | <5 | 18 | <5 | <5 | 100 | µg/L | EPA 556 |
| HMX | <0.1 | <0.1 | <0.1 | <0.1 | 350 | µg/L | EPA 8330B |
| Isopropylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 770 | µg/L | EPA 524.2 |
| Manganese | 56 | 2 | 3 | 37 | 500 | µg/L | EPA 200.8 |
| Methyl isobutyl ketone (MIBK) | <2 | <2 | <2 | <2 | 120 | µg/L | EPA 524.2 |
| Naphthalene | <0.5 | <0.5 | <0.5 | <0.5 | 17 | µg/L | EPA 524.2 |
| N-Nitrosodiethylamine (NDEA) | <2 | <2 | <2 | <2 | 10 | ng/L | EPA 521 |
| N-nitrosodimethylamine (NDMA) | <2 | <2 | <2 | <2 | 10 | ng/L | EPA 521 |
| N-Nitrosodi-n-propylamine (NDPA) | <2 | <2 | <2 | <2 | 10 | ng/L | EPA 521 |
| PFOS | 4.7 | < 0.4 | 0.9 | 2.7 | 6.5 | ng/L | EPA 537.1 |
| PFOA | 6.1 | < 0.4 | 1.5 | 3.4 | 5.1 | ng/L | EPA 537.1 |
| Propachlor | <0.5 | <0.5 | <0.5 | <0.5 | 90 | µg/L | EPA 525.2 |
| N-propylbenzene | <0.5 | <0.5 | <0.5 | <0.5 | 200 | µg/L | EPA 524.2 |
| RDX | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | µg/L | EPA 8330B |
| Tertiary butyl alcohol | <2 | <2 | <2 | <2 | 12 | µg/L | EPA 524.2 |
| 1,2,4 -trimethylbenzene | 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 | 330 | µg/L | EPA 524.2 |
| 2,4,6-Trinitrotoluene | <0.1 | <0.1 | <0.1 | <0.1 | 1 | µg/L | EPA 8330B |
| Vanadium | 5 | <5 | <5 | <5 | 50 | µg/L | EPA 200.8 |

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

** Asbestos and Tritium were not analyzed in time for reporting by Eurofins Eaton Analytical

NS: Not sampled

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-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Unit |
|---------------------------------------|--------|--------|-------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Silica | 12.3 | 12.7 | Not Yet Available | | | | | | | | | | mg/L |
| Calcium | 24 | 24 | | | | | | | | | | | mg/L |
| Magnesium | 6 | 6 | | | | | | | | | | | mg/L |
| Sodium | 64 | 57 | | | | | | | | | | | mg/L |
| Potassium | 2.1 | 2.2 | | | | | | | | | | | mg/L |
| Carbonate | 0 | 0 | | | | | | | | | | | mg/L |
| Bicarbonate | 85 | 85 | | | | | | | | | | | mg/L |
| Sulfate | 52 | 47 | | | | | | | | | | | mg/L |
| Chloride | 66 | 59 | | | | | | | | | | | mg/L |
| Nitrate | 2.2 | 2.4 | | | | | | | | | | | mg/L |
| Fluoride | 0.2 | 0.2 | | | | | | | | | | | mg/L |
| Total Dissolved Solids | 271 | 253 | | | | | | | | | | | mg/L |
| Total Hardness as CaCO ₃ | 81 | 81 | | | | | | | | | | | mg/L |
| Total Alkalinity as CaCO ₃ | 70 | 70 | | | | | | | | | | | mg/L |
| Free Carbon Dioxide | 1.5 | 1.1 | | | | | | | | | | | mg/L |
| pH | 7.98 | 8.10 | | | | | | | | | | | unit |
| Specific Conductance | 479 | 443 | | | | | | | | | | | µmho/cm |
| Color | 5 | -- | | | | | | | | | | | CU |
| Turbidity | 0.7 | 0.8 | | | | | | | | | | | NTU |
| Temperature | 10 | 9 | | | | | | | | | | | °C |
| Bromide | 0.25 | 0.20 | mg/L | | | | | | | | | | |
| Total Organic Carbon | 3.09 | 3.70 | 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 |
| | 601002 | Inland Empire Utilities Agency - BH-1/2 | 340 downgradient | 435-475 | 4 | Active | Monitoring |
| Turner Basins | 600453 | City Of Ontario - 29 | 2810 downgradient | 400-1095 | 18 | Active | Municipal |
| | 600585 | City of Ontario - 38* | 4600 crossgradient | 500-1010 | 16 | Active | Municipal |
| | 600998 | Inland Empire Utilities Agency - TRN-1/2 | 50 downgradient | 380-400 | 4 | Active | Monitoring |
| | 601000 | Inland Empire Utilities Agency - TRN-2/2 | 50 downgradient | 392-412 | 4 | Active | Monitoring |
| Declez Basin | 300208 | Jurupa Community Services District - 19 | 8900 downgradient | 230-390 | 18 | Active | Municipal |
| | 300207 | Jurupa Community Services District - 17 | 5240 downgradient | 259-290, & 300-400 | NA | Active | Municipal |
| | 300200 | Jurupa Community Services District - 13 | 5730 downgradient | 220-446 | 16-34 | Active | Municipal |
| | 300484 | Inland Empire Utilities Agency - DCZ-1 | 50 downgradient | 155-175 | 4 | Active | Monitoring |
| -- | Inland Empire Utilities Agency - DCZ-2 | 4,100 downgradient | 240-270 | 4 | Active | Monitoring | |
| RP-3 Basins | 600492 | Fontana Water Company - F23a | 7900 upgradient | 450-740 | 18 | Active | Municipal |
| | 600477 | Inland Empire Utilities Agency - Southridge JHS | 5500 downgradient | NA | NA | Active | Monitoring |
| | 600848 | Alcoa - Offsite MW1 | 9480 downgradient | NA | NA | Active | Monitoring |
| | 600850 | Alcoa - Offsite MW3 | 4725 downgradient | NA | NA | Active | Monitoring |
| | 601040 | Inland Empire Utilities Agency - RP3-1/1 | 100 downgradient | 215-235 | 4 | Active | Monitoring |
| Jurupa Basin | Not currently planned for recharge | | | | | | |
| 7th & 8th Street Basins | 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 |
| | 1904001 | City of Pomona P-34 | 2550 downgradient | 363-367,380-400, 419-427 | 20 | Active | 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 Sevaive 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 |
| | 600462 | Unitex 91090 | ~1601 downgradient | NA | NA | Active | Private Domestic |
| Victoria Basin | 600905 | Cucamonga Valley Water District No. 39 | 4329 downgradient | 750-870, 940-960, 970-1060, & 1080-1130, | 20 | Active | Municipal |
| | 601033 | Cucamonga Valley Water District No. 43** | 8300 downgradient | 650-800 | 32-42 | Active | Municipal |
| | 601117 | Inland Empire Utilities Agency - VCT-1/1 | ~39-116 downgradient | 570-610 | 4 | Active | Monitoring |
| | -- | Inland Empire Utilities Agency - VCT-2/2 | ~ 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 2-9
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) | Thiocarb (µg/L) | Turbidity (NTU) | Zn (µg/L) | TDS (mg/L) | Cl (mg/L) | Hardness (mg CaCO ₃ /L) | Na (mg/L) | SO ₄ (mg/L) | Nitrogen, Total (mg/L) | NO ₂ -N (mg/L) | NO ₃ -N (mg/L) | Dissolved Oxygen (mg/L) |
|-------------------------------------|----------------------------|----------|------------|----------------------------|---------|--------------|-----------|---------------|-----------|------------------------|-----------------------|-----------|-----------|-------------|----------------------|-----------|-----------------|-----------------|-----------|------------|-----------|------------------------------------|-----------|------------------------|------------------------|---------------------------|---------------------------|-------------------------|
| Banana & Hickory | Fontana Water Co. - F7a | 01/24/23 | 0.90 | <1.1 | 7.8 | 483 | <20 | 5 | <3 | 0.4 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | 36 | 260 | 17 | 208 | 16 | 19 | 11.3 | <0.05 | 11.3 | 6.5 |
| | California Speedway 2 | 03/09/23 | <0.10 | <1.1 | 7.8 | 380 | <20 | <3 | <3 | 0.3 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | <20 | 256 | 11 | 158 | 18 | 9 | 4.6 | <0.05 | 4.6 | 7.8 |
| | BH-1/2* | 03/20/23 | 0.30 | <1.1 | 8.3 | 519 | <20 | 5 | <3 | 0.6 | <0.1 | <15 | <2 | <0.5 | 1 | <0.5 | <0.2 | 0.2 | <20 | 292 | 72 | 185 | 23 | 20 | 1.5 | <0.05 | 1.5 | 7.9 |
| Turner | Ontario Well No. 29 | 02/01/23 | <0.10 | <1.1 | 7.3 | 342 | <20 | 5 | 3.9 | -0.3 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | <0.1 | <20 | 212 | 8 | 135 | 22 | 10 | 1.8 | <0.05 | 1.8 | 8.7 |
| | Ontario Well No. 38 | 02/01/23 | <0.10 | <1.1 | 7.6 | 314 | <20 | 5 | <3 | 0.0 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | <20 | 198 | 6 | 129 | 19 | 6 | 1.8 | <0.05 | 1.8 | 5.9 |
| | T-1/2* | 02/01/23 | 0.33 | <1.1 | 7.7 | 344 | <20 | 5 | <3 | 0.0 | <0.1 | <15 | 2 | <0.5 | <1 | <0.5 | <0.2 | 0.4 | <20 | 216 | 20 | 106 | 36 | 10 | <0.6 | <0.05 | <0.1 | 1.3 |
| | T-2/2* | 02/23/23 | 0.46 | <1.1 | 7.7 | 521 | <20 | 5 | <3 | 0.0 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.6 | <20 | 310 | 62 | 151 | 52 | 25 | 0.7 | <0.05 | 0.7 | 3.2 |
| RP3 | Alcoa MW3* | 03/28/23 | <0.10 | <1.1 | 7.2 | 1116 | <20 | <3 | <3 | 0.1 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | <0.1 | <20 | 682 | 155 | 417 | 56 | 59 | 16.7 | <0.05 | 16.7 | 5.7 |
| | Fontana Water Co. - F23a | 01/24/23 | <0.10 | <1.1 | 7.9 | 382 | <20 | <3 | <3 | 0.4 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | 26 | 204 | 13 | 153 | 18 | 17 | 5.5 | <0.05 | 5.5 | 7.1 |
| | Southridge JHS* | 03/07/23 | 0.37 | <1.1 | 7.1 | 911 | <20 | <3 | <3 | 0.0 | <0.1 | <15 | 3 | <0.5 | <1 | <0.5 | <0.2 | 1.1 | <20 | 562 | 81 | 336 | 55 | 63 | 16.0 | <0.05 | 16.0 | 5.0 |
| | RP3-1/1* | 02/22/23 | 0.60 | <1.1 | 6.8 | 781 | <20 | 5 | 5 | -0.7 | <0.1 | <15 | 11 | <0.5 | <1 | <0.5 | <0.2 | 5.2 | <20 | 466 | 113 | 169 | 87 | 44 | 4.6 | <0.05 | 4.6 | 2.1 |
| 7th & 8th Street | Ontario Well No. 35 | 02/01/23 | <0.10 | <1.1 | 7.8 | 342 | <20 | <3 | <3 | 0.2 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | <0.1 | <20 | 214 | 7 | 133 | 22 | 16 | 3.0 | <0.05 | 3.0 | 8.2 |
| | 8TH-1/2* | 03/27/23 | 1.53 | <1.1 | 7.3 | 513 | <20 | 10 | <3 | -0.2 | <0.1 | <15 | 27 | <0.5 | <1 | <0.5 | <0.2 | 12.9 | <20 | 312 | 68 | 216 | 18 | 25 | 1.1 | <0.05 | 1.1 | 2.7 |
| | 8TH-2/1* | 03/23/23 | <0.10 | <1.1 | 7.7 | 497 | <20 | 5 | <3 | 0.2 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.8 | <20 | 288 | 25 | 220 | 17 | 20 | 13.5 | <0.05 | 13.5 | 6.1 |
| | 8TH-2/2* | 03/23/23 | <0.10 | <1.1 | 7.8 | 448 | <20 | 10 | <3 | 0.3 | <0.1 | <15 | 5 | <0.5 | <1 | <0.5 | <0.2 | 5.8 | <20 | 258 | 44 | 187 | 16 | 26 | 2.9 | <0.05 | 2.9 | 6.0 |
| | Pomona Well No. 10 | 01/24/23 | 0.44 | <1.1 | 7.8 | 551 | <20 | 5 | <3 | 0.4 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | <0.1 | <20 | 292 | 43 | 247 | 13 | 36 | 7.6 | <0.05 | 7.6 | 6.9 |
| Brooks | BRK-1/1* | 01/31/23 | 0.37 | <1.1 | 7.7 | 576 | <20 | <3 | <3 | 0.2 | <0.1 | <15 | 7 | <0.5 | <1 | <0.5 | <0.2 | 5.3 | <20 | 318 | 78 | 206 | 34 | 22 | 0.8 | <0.05 | 0.8 | 2.3 |
| | BRK-1/2* | 01/31/23 | 0.30 | <1.1 | 7.6 | 658 | <20 | 5 | <3 | 0.3 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 1.2 | <20 | 394 | 26 | 302 | 15 | 49 | 22.1 | <0.05 | 22.1 | 8.6 |
| | BRK-2/1* | 02/27/23 | <0.10 | <1.1 | 7.9 | 608 | <20 | 20 | <3 | 0.5 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 9.3 | <20 | 370 | 61 | 272 | 11 | 36 | 7.0 | <0.05 | 7.0 | 5.3 |
| | BRK-2/2* | 02/27/23 | <0.10 | <1.1 | 8.2 | 426 | <20 | <3 | <3 | 0.8 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.2 | <20 | 262 | 10 | 281 | 31 | 26 | 11.6 | <0.05 | 10.9 | 4.0 |
| | Ely Basin MW2 Walnut St.* | 02/02/23 | <0.10 | <1.1 | 7.5 | 659 | <20 | 5 | <3 | 0.1 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | <20 | 386 | 55 | 262 | 33 | 30 | 7.3 | <0.05 | 7.3 | 5.6 |
| Ely | Riverside Well (43840-CWW) | 01/23/23 | 1.27 | 2 | 7.5 | 542 | <20 | 5 | <3 | 0.1 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.4 | <20 | 304 | 28 | 235 | 20 | 25 | 8.2 | <0.05 | 8.2 | 7.1 |
| | Bishop of SB Corp. - DOM | 01/23/23 | 0.37 | <1.1 | 7.5 | 898 | <20 | 5 | <3 | 0.4 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.2 | 454 | 518 | 42 | 415 | 24 | 65 | 22.2 | <0.05 | 22.2 | 6.0 |
| | SS-1/1* | 03/06/23 | <0.10 | <1.1 | 7.1 | 383 | <20 | 5 | <3 | -0.7 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 2.1 | <20 | 256 | 49 | 147 | 18 | 16 | 2.7 | <0.05 | 2.7 | 6.7 |
| Victoria & San Sevaine | SSV-2* | 03/06/23 | 0.47 | <1.1 | 7.3 | 646 | <20 | 15 | <3 | -0.1 | <0.1 | <15 | 6 | <0.5 | <1 | <0.5 | <0.2 | 16.7 | <20 | 378 | 69 | 238 | 43 | 34 | 4.7 | <0.05 | 4.7 | 4.7 |
| | VCT-1/1* | 03/08/23 | <0.10 | <1.1 | 7.2 | 538 | <20 | <3 | <3 | -0.3 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.9 | <20 | 340 | 83 | 206 | 22 | 22 | <0.6 | <0.05 | 0.4 | 5.5 |
| | VCT-2/2 | 03/08/23 | <0.10 | 9 | 7.8 | 310 | <20 | <3 | <3 | 0.0 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.7 | <20 | 216 | 13 | 122 | 16 | 8 | 3.1 | <0.05 | 3.1 | 6.8 |
| | CVWD Well No. 39 | 01/25/23 | <0.10 | <1.1 | 7.7 | 292 | <20 | <3 | <3 | 0.0 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.8 | <20 | 172 | 7 | 108 | 21 | 10 | 2.5 | <0.05 | 2.5 | 6.1 |
| | CVWD Well No. 43 | 01/25/23 | <0.10 | <1.1 | 7.7 | 347 | <20 | 5 | <3 | 0.1 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | <20 | 204 | 11 | 141 | 19 | 12 | 3.5 | <0.05 | 3.5 | 6.7 |
| | Unitex 91090* | 03/07/23 | 0.30 | <1.1 | 7.2 | 602 | <20 | <3 | <3 | -0.2 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.2 | <20 | 372 | 75 | 227 | 29 | 28 | 2.9 | <0.05 | 2.9 | 5.1 |
| Declez | JCSD Well No. 13 | 02/02/23 | <0.10 | <1.1 | 7.7 | 572 | <20 | <3 | <3 | 0.3 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.3 | <20 | 336 | 69 | 218 | 28 | 19 | 4.3 | <0.05 | 4.3 | 7.5 |
| | JCSD Well No. 19 | 02/02/23 | <0.10 | <1.1 | 7.6 | 332 | <20 | 5 | <3 | 0.0 | <0.1 | <15 | <2 | <0.5 | <1 | <0.5 | <0.2 | 0.1 | <20 | 206 | 9 | 117 | 26 | 10 | 2.9 | <0.05 | 2.9 | 7.1 |
| | DCZ-1/1* | 03/20/23 | 1.10 | <1.1 | 7.6 | 592 | <20 | 20 | <3 | 0.1 | <0.1 | <15 | 11 | <0.5 | <1 | <0.5 | <0.2 | 34.0 | <20 | 346 | 89 | 216 | 33 | 25 | <0.6 | <0.05 | <0.1 | 2.5 |
| | DCZ-2* | 03/07/23 | <0.10 | <1.1 | 7.8 | 592 | <20 | <3 | <3 | 0.3 | <0.1 | <15 | <2 | <0.5 | <1 | 18.38 | <0.2 | 0.4 | 158 | 348 | 62 | 203 | 38 | 34 | 8.8 | <0.05 | 8.8 | 4.6 |
| Detection Limit | | | 0.3 | 1 | | | 20 | 3 | 3.0 | | 0.10 | 15 | 2 | 1 | 1 | 0.50 | 0.20 | 0.1 | 20 | | 2 | 3 | 1 | 1 | 0.6 | 0.05 | 0.1 | |
| Primary Maximum Contaminant Level | | | | | | | 1000 | | 1300 | | | | | 13 | | | 70 | | | | | | | | | 1 | 10 | |
| Secondary Maximum Contaminant Level | | | | | 6.5-8.5 | 900 | 200 | 15 | 1000 | | 0.5 | 300 | 50 | 5 | 3 | 100 | 1 | 5 | 5000 | 500 | 250 | | | | 250 | | | |

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

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

NA: Not analyzed due to broken field equipment

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 Sevaine | Turner | Victoria | 7th & 8th St. | Banana | Brooks | Declez | Ely | Hickory | RP3 | San Sevaine | Turner | Victoria | 7th & 8th St. | Banana | Brooks | Declez | Ely | Hickory | RP3 | San Sevaine | Turner | Victoria |
| Apr-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 4 | 36 | 21 | 28 | 81 | 330 | 26 | 49 | 17 | 233 | 56 | 0 | 0 | 0 | 81 | 330 | 318 | 19 | 289 |
| May-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 1 | 5 | 50 | 102 | 316 | 0 | 14 | 0 | 243 | 0 | 0 | 74 | 180 | 102 | 316 | 341 | 67 | 440 |
| Jun-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 2 | 48 | 13 | 139 | 103 | 0 | 37 | 0 | 134 | 0 | 0 | 0 | 87 | 139 | 103 | 447 | 46 | 135 |
| 2Q22 Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 4 | 39 | 75 | 90 | 323 | 750 | 26 | 99 | 17 | 610 | 56 | 0 | 74 | 267 | 323 | 750 | 1105 | 132 | 864 |
| Jul-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 4 | 134 | 0 | 1 | 3 | 27 | 2 | 314 | 0 | 0 | 0 | 98 | 38 | 344 | 477 | 63 | 51 |
| Aug-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 5 | 9 | 0 | 0 | 0 | 26 | 0 | 160 | 125 | 6 | 0 | 0 | 50 | 592 | 394 | 58 | 0 |
| Sep-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 76 | 1 | 6 | 17 | 41 | 29 | 2 | 43 | 83 | 28 | 22 | 289 | 203 | 0 | 0 | 6 | 799 | 408 | 0 | 0 |
| 3Q22 Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 91 | 1 | 7 | 25 | 185 | 29 | 3 | 46 | 136 | 30 | 496 | 415 | 209 | 0 | 98 | 94 | 1735 | 1279 | 121 | 51 |
| Oct-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79 | 7 | 33 | 65 | 21 | 4 | 16 | 22 | 144 | 38 | 243 | 132 | 162 | 28 | 0 | 0 | 819 | 423 | 17 | 55 |
| Nov-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 183 | 58 | 57 | 135 | 128 | 62 | 38 | 208 | 174 | 62 | 69 | 49 | 87 | 0 | 27 | 24 | 742 | 225 | 0 | 169 |
| Dec-22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 298 | 111 | 76 | 208 | 576 | 51 | 125 | 316 | 359 | 118 | 17 | 0 | 104 | 3 | 0 | 0 | 1056 | 102 | 0 | 84 |
| 4Q22 Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 560 | 176 | 165 | 408 | 725 | 117 | 180 | 547 | 678 | 218 | 330 | 181 | 352 | 31 | 27 | 24 | 2616 | 749 | 17 | 309 |
| Jan-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 160 | 51 | 303 | 85 | 413 | 24 | 427 | 388 | 286 | 360 | 10 | 0 | 53 | 0 | 0 | 0 | 531 | 0 | 0 | 22 |
| Feb-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 0 | 0 | 210 | 74 | 86 | 195 | 310 | 41 | 149 | 349 | 135 | 120 | 50 | 2 | 64 | 0 | 0 | 0 | 776 | 84 | 0 | 110 |
| Mar-23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 | 0 | 0 | 3 | 0 | 0 | 8 | 10 | 0 | 178 | 80 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 253 | 0 | 0 | 2 |
| 1Q23 Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 | 0 | 0 | 373 | 125 | 388 | 288 | 733 | 65 | 754 | 817 | 462 | 480 | 59 | 3 | 117 | 0 | 0 | 0 | 1560 | 84 | 0 | 134 |

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) | |
| 2Q22 | Apr-22 | 0.0 | 0.2 | 140 | 69 | 13.0 | 380 | (1,980) | (36,043) | (973,212) |
| | May-22 | 0.0 | 0.2 | 140 | 111 | 13.0 | 380 | (2,091) | (37,818) | (1,025,083) |
| | Jun-22 | 0.0 | 0.2 | 140 | 113 | 13.0 | 380 | (2,203) | (39,622) | (1,077,835) |
| 3Q22 | Jul-22 | 0.0 | 0.2 | 140 | 108 | 13.0 | 380 | (2,312) | (41,359) | (1,128,595) |
| | Aug-22 | 0.0 | 0.2 | 140 | 103 | 13.0 | 380 | (2,415) | (43,011) | (1,176,899) |
| | Sep-22 | 0.0 | 0.2 | 140 | 0 | 13.0 | 380 | (2,415) | (43,014) | (1,176,983) |
| 4Q22 | Oct-22 | 0.0 | 0.2 | 140 | 3 | 13.0 | 380 | (2,418) | (43,060) | (1,178,315) |
| | Nov-22 | 0.0 | 0.2 | 140 | 18 | 13.0 | 380 | (2,436) | (43,348) | (1,186,739) |
| | Dec-22 | 0.0 | 0.2 | 140 | 3 | 13.0 | 380 | (2,439) | (43,403) | (1,188,337) |
| 1Q23 | Jan-23 | 0.0 | 0.2 | 140 | 0 | 13.0 | 380 | (2,439) | (43,403) | (1,188,356) |
| | Feb-23 | 0.0 | 0.2 | 140 | 0 | 13.0 | 380 | (2,439) | (43,405) | (1,188,417) |
| | Mar-23 | 0.0 | 0.2 | 140 | 0 | 13.0 | 380 | (2,439) | (43,407) | (1,188,464) |

| 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) | |
| 2Q22 | Apr-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | 736 | (40,861) | (252,736) |
| | May-22 | 0.0 | 0.2 | 140 | 8 | 12.0 | 320 | 728 | (40,983) | (256,009) |
| | Jun-22 | 0.0 | 0.2 | 140 | 51 | 12.0 | 320 | 677 | (41,736) | (276,086) |
| 3Q22 | Jul-22 | 0.0 | 0.2 | 140 | 8 | 12.0 | 320 | 668 | (41,861) | (279,422) |
| | Aug-22 | 0.0 | 0.2 | 140 | 118 | 12.0 | 320 | 550 | (43,613) | (326,131) |
| | Sep-22 | 0.0 | 0.2 | 140 | 38 | 12.0 | 320 | 512 | (44,180) | (341,258) |
| 4Q22 | Oct-22 | 0.0 | 0.2 | 140 | 170 | 12.0 | 320 | 342 | (46,694) | (408,302) |
| | Nov-22 | 0.0 | 0.2 | 140 | 121 | 12.0 | 320 | 221 | (48,485) | (456,041) |
| | Dec-22 | 0.0 | 0.2 | 140 | 216 | 12.0 | 320 | 5 | (51,679) | (541,231) |
| 1Q23 | Jan-23 | 0.0 | 0.2 | 140 | 32 | 12.0 | 320 | (27) | (52,151) | (553,816) |
| | Feb-23 | 0.0 | 0.2 | 140 | 50 | 12.0 | 320 | (77) | (52,896) | (573,685) |
| | Mar-23 | 0.0 | 0.2 | 140 | 8 | 12.0 | 320 | (85) | (53,021) | (577,025) |

| 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) | |
| 2Q22 | Apr-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (3,066) | (45,143) | (712,136) |
| | May-22 | 0.0 | 0.2 | 140 | 2 | 12.0 | 320 | (3,068) | (45,178) | (713,071) |
| | Jun-22 | 0.0 | 0.2 | 140 | 4 | 12.0 | 320 | (3,072) | (45,236) | (714,607) |
| 3Q22 | Jul-22 | 0.0 | 0.2 | 140 | 2 | 12.0 | 320 | (3,074) | (45,263) | (715,349) |
| | Aug-22 | 0.0 | 0.2 | 140 | 18 | 12.0 | 320 | (3,092) | (45,528) | (722,403) |
| | Sep-22 | 0.0 | 0.2 | 140 | 11 | 12.0 | 320 | (3,103) | (45,688) | (726,667) |
| 4Q22 | Oct-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (3,103) | (45,688) | (726,675) |
| | Nov-22 | 0.0 | 0.2 | 140 | 89 | 12.0 | 320 | (3,191) | (47,002) | (761,718) |
| | Dec-22 | 0.0 | 0.2 | 140 | 10 | 12.0 | 320 | (3,201) | (47,144) | (765,492) |
| 1Q23 | Jan-23 | 0.0 | 0.2 | 140 | 2 | 12.0 | 320 | (3,203) | (47,172) | (766,242) |
| | Feb-23 | 0.0 | 0.2 | 140 | 1 | 12.0 | 320 | (3,204) | (47,189) | (766,700) |
| | Mar-23 | 0.0 | 0.2 | 140 | 4 | 12.0 | 320 | (3,208) | (47,254) | (768,425) |

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

Cells shaded in grey reflect most recent lab values.

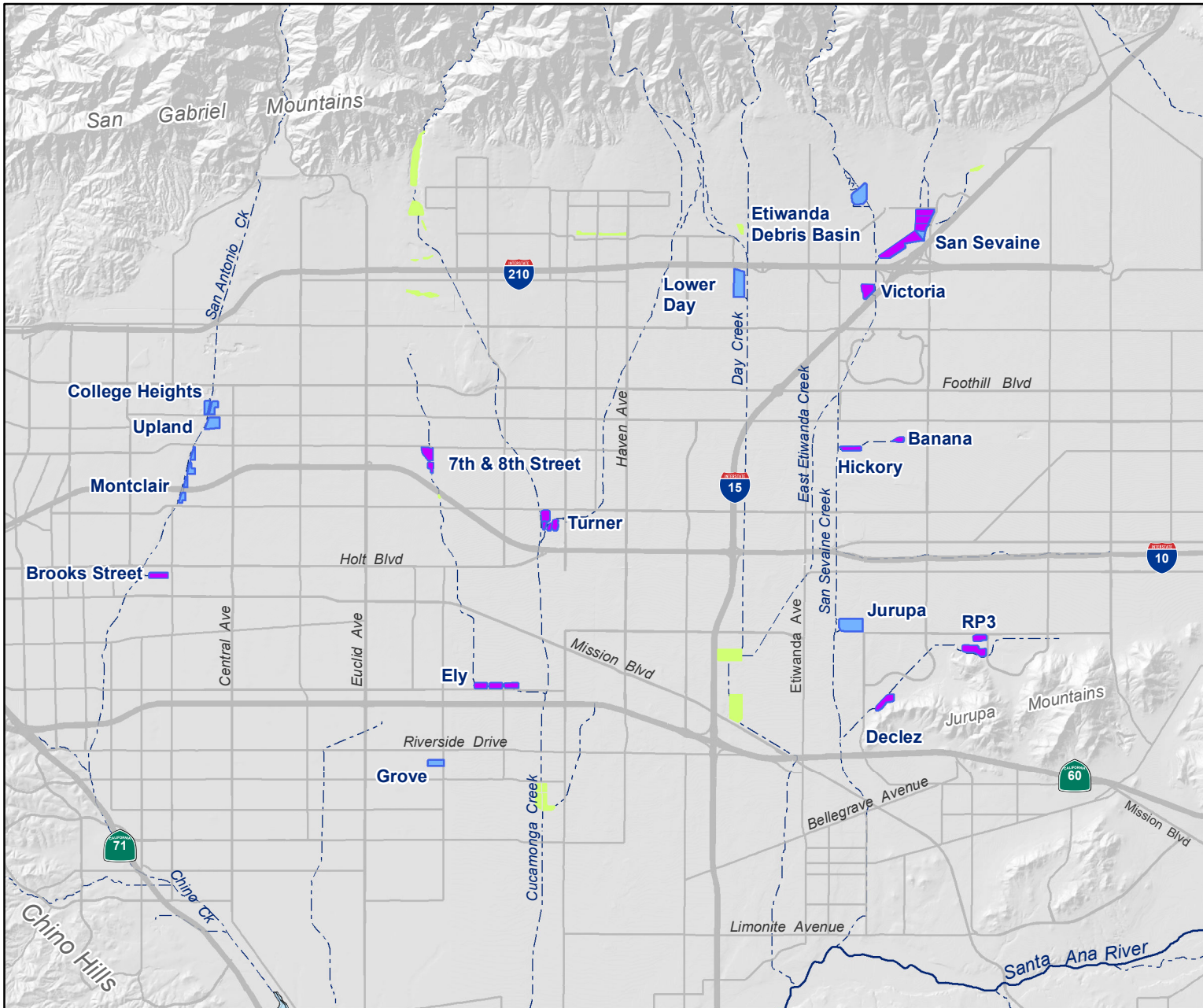
Table 6-1
 MVWD ASR Project - TIN/TDS Mass Balance

| 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) |
| 2Q22 | Apr-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | May-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Jun-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| 3Q22 | Jul-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Aug-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Sep-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| 4Q22 | Oct-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Nov-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Dec-22 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| 1Q23 | Jan-23 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Feb-23 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |
| | Mar-23 | 0.0 | 0.2 | 140 | 0 | 12.0 | 320 | (2,061) | (79,681) | (1,153,705) |

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) |
| 2Q22 | Apr-22 | | (6,371) | (201,728) | (3,091,789) |
| | May-22 | | (6,493) | (203,660) | (3,147,868) |
| | Jun-22 | | (6,660) | (206,275) | (3,222,234) |
| 3Q22 | Jul-22 | | (6,779) | (208,165) | (3,277,072) |
| | Aug-22 | | (7,018) | (211,833) | (3,379,139) |
| | Sep-22 | | (7,067) | (212,563) | (3,398,614) |
| 4Q22 | Oct-22 | | (7,240) | (215,123) | (3,466,996) |
| | Nov-22 | | (7,467) | (218,516) | (3,558,203) |
| | Dec-22 | | (7,696) | (221,907) | (3,648,766) |
| 1Q23 | Jan-23 | | (7,730) | (222,407) | (3,662,120) |
| | Feb-23 | | (7,782) | (223,172) | (3,682,507) |
| | Mar-23 | | (7,795) | (223,363) | (3,687,619) |



Main Map Features

- Recharge Basins in the Recycled Water Groundwater Recharge Program (Recycled Water not initiated)
- Recharge Basins in the Recycled Water Groundwater Recharge Program (Recycled Water initiated)
- Non-Program Basins
- Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations

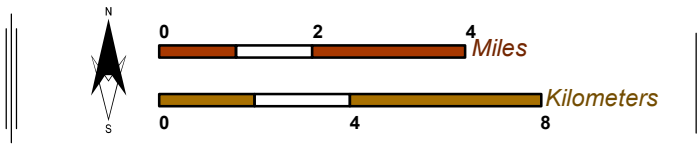
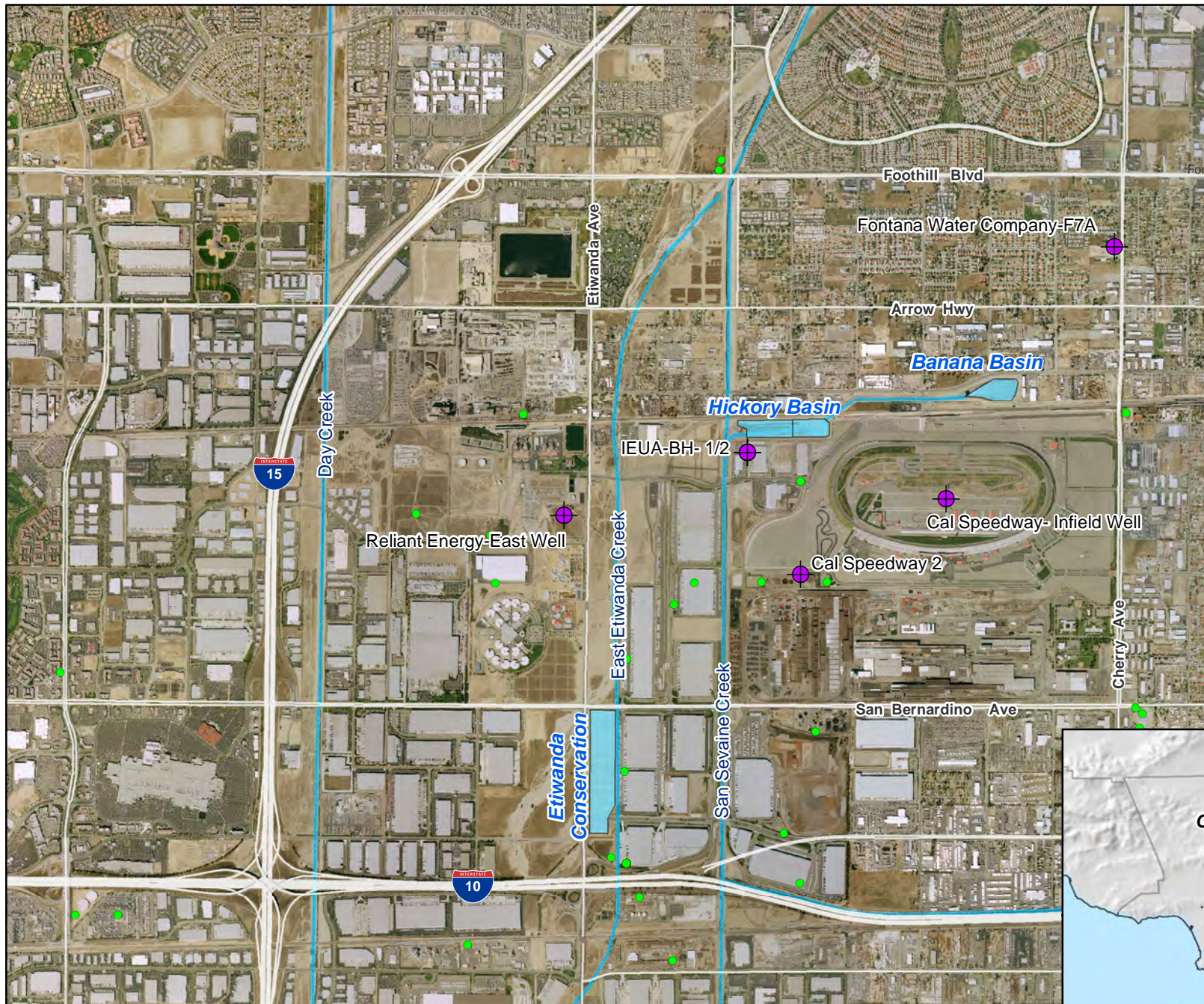






Figure 1-1



Main Map Features

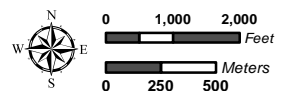
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

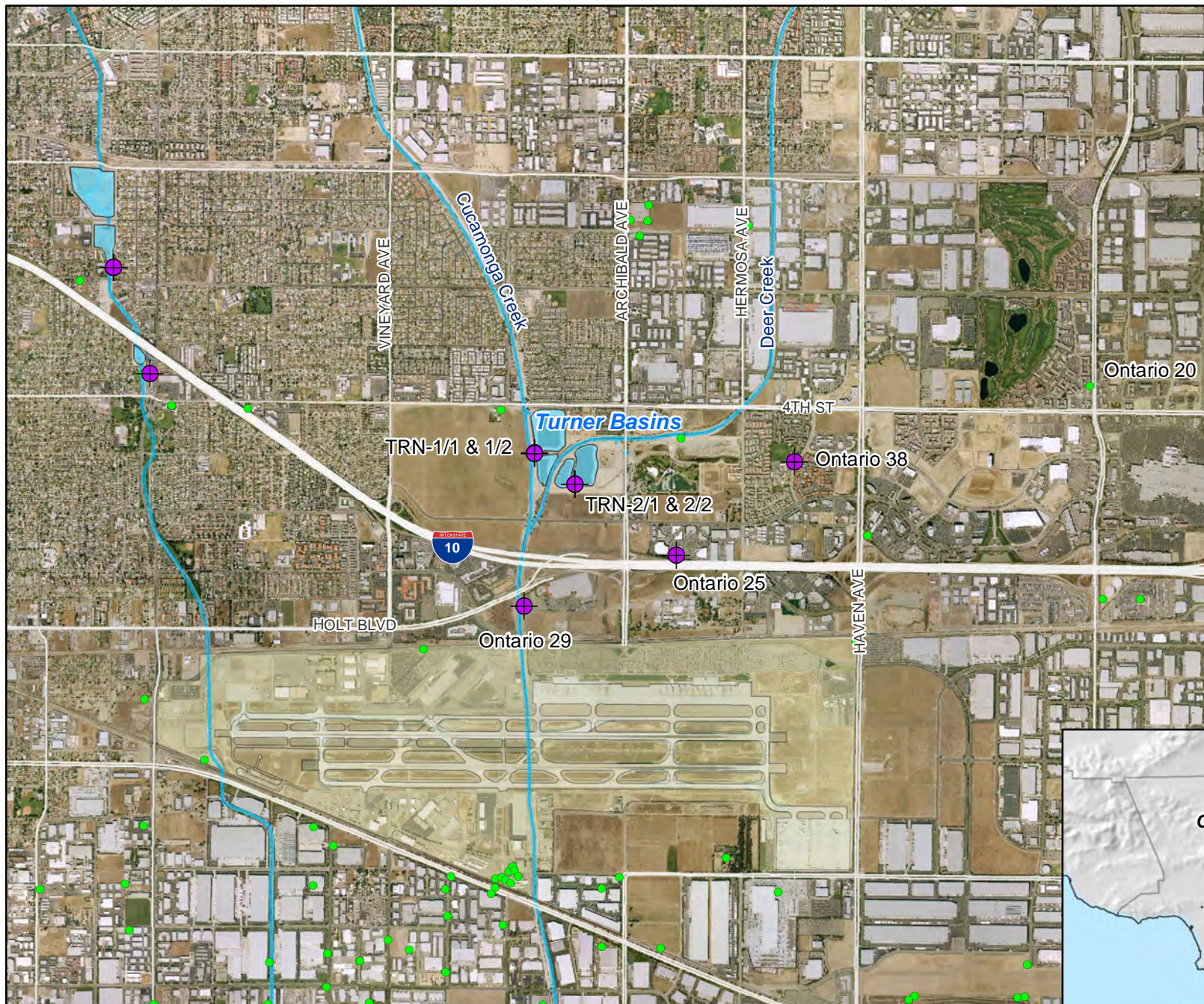


Monitoring Well Network
Hickory and Banana Basins





Figure 2-1

Recycled Water Recharge Program





Main Map Features

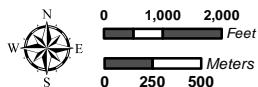
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

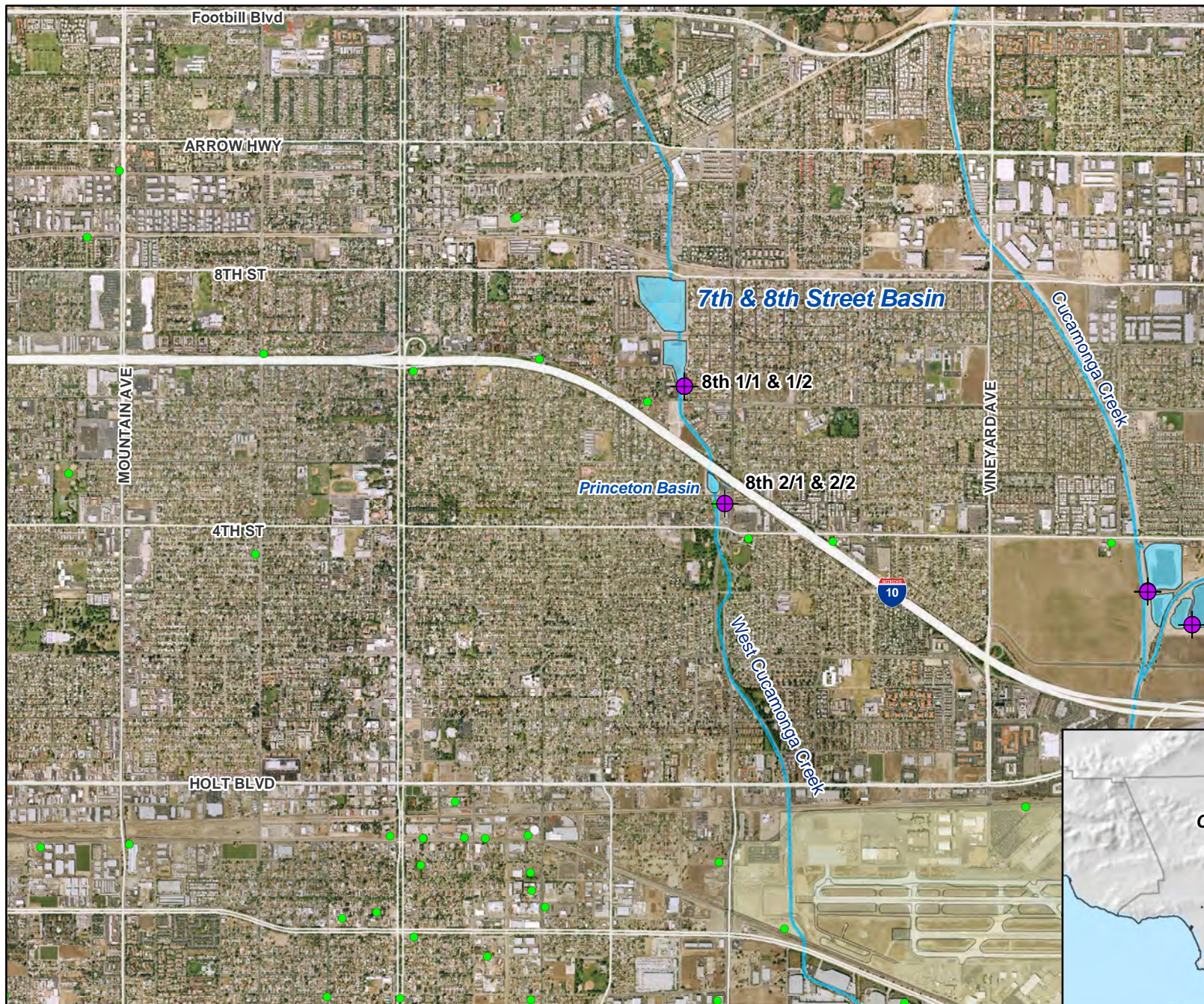


Monitoring Well Network
Turner Basins





Figure 2-2

Recycled Water Recharge Program





Main Map Features

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

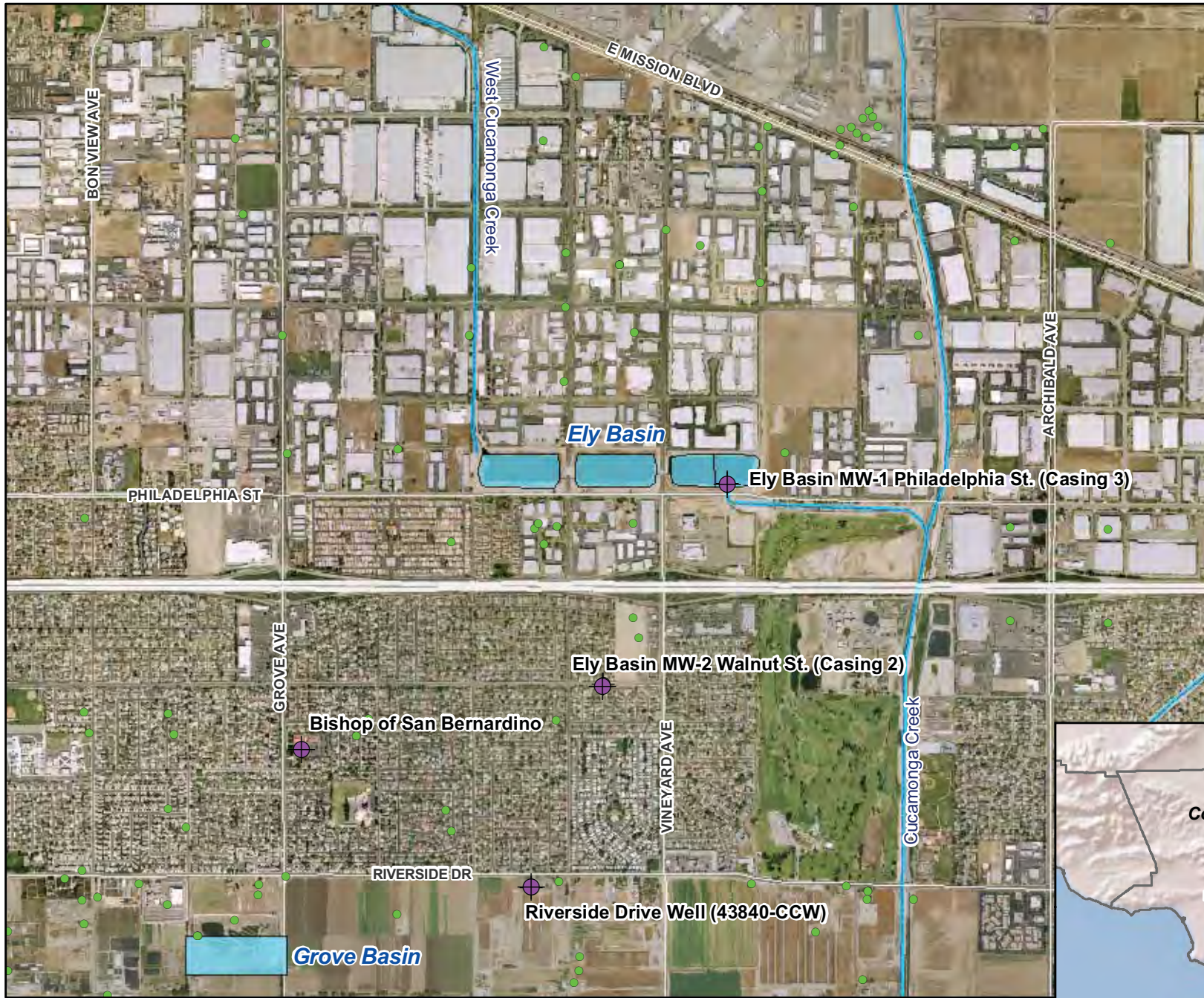


Monitoring Well Network
7th and 8th Street Basin





Figure 2-3

Recycled Water Recharge Program





Main Map Features

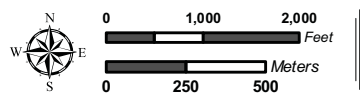
-  Existing Monitoring Well
-  "Other Wells"
-  Rivers/Streams/Creeks
-  Recharge Basins

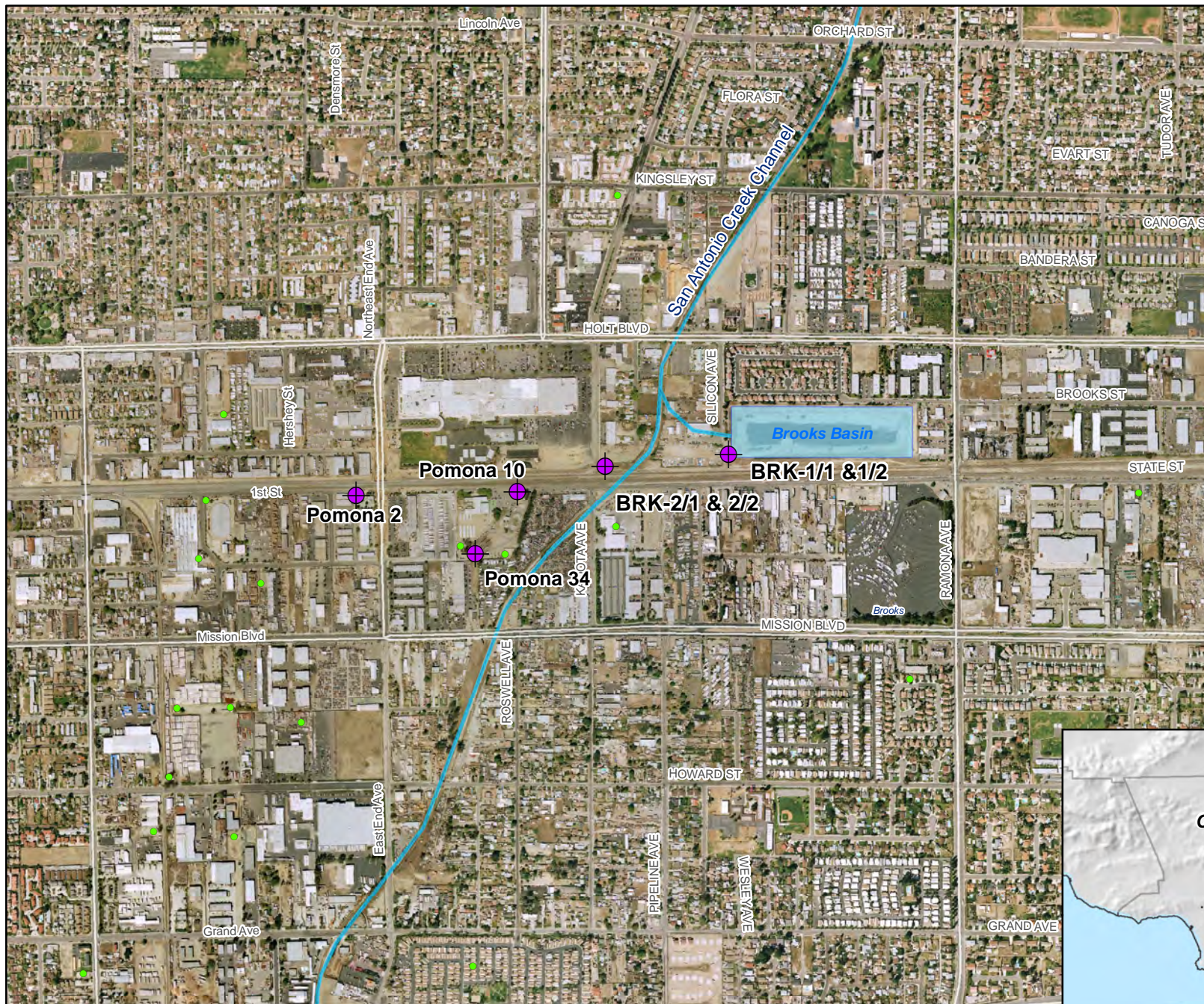


Monitoring Well Network
Ely Basins





Figure 2-4

Recycled Water Recharge Program





Main Map Features

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



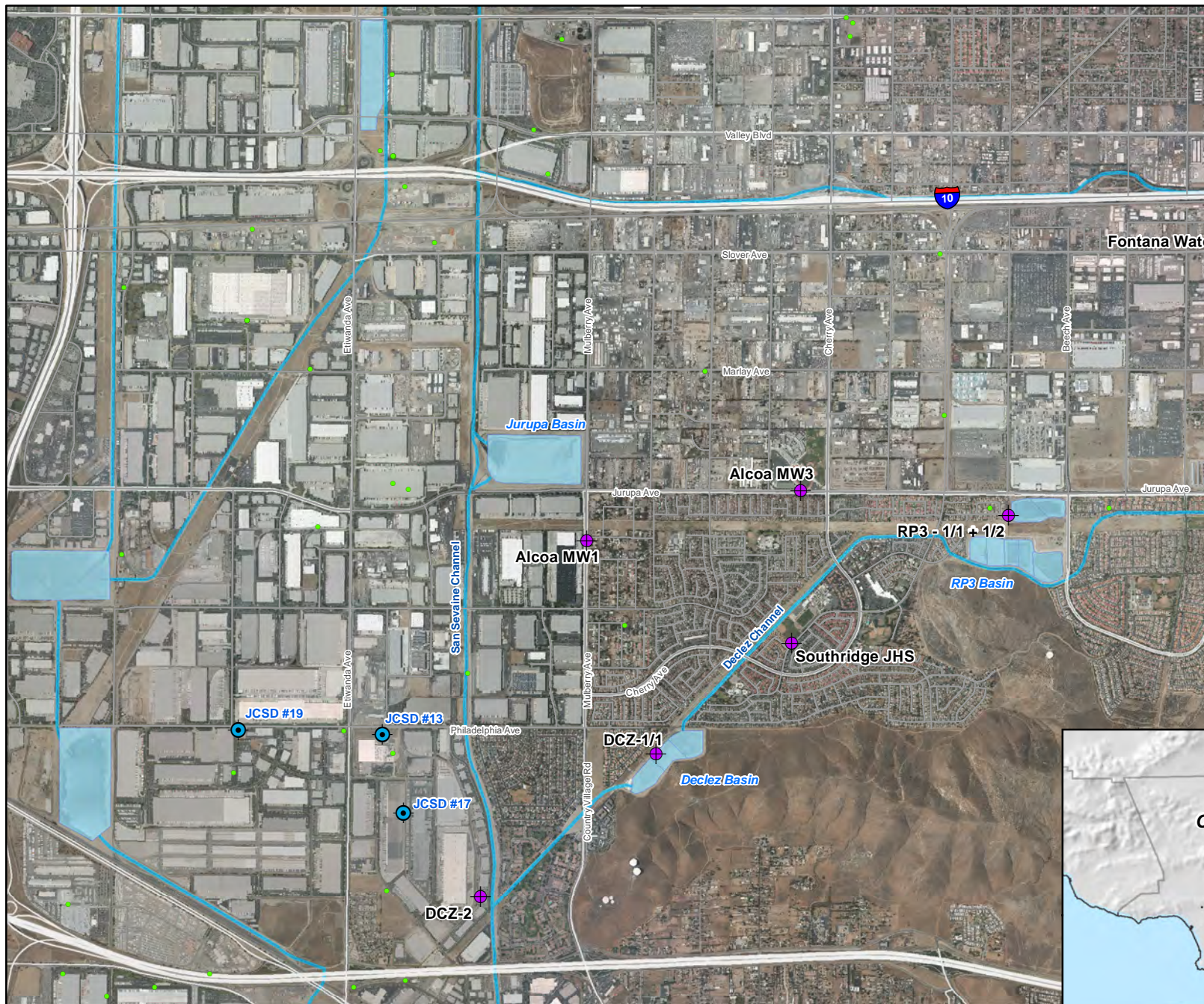
Monitoring Well Network

Brooks Street Basin

Recycled Water Recharge Program

Figure 2-5





Main Map Features

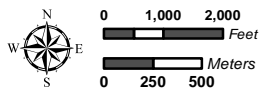
- JCSD Wells
- "Other Wells"
- ⊕ Existing Monitoring Well
- Rivers/Streams/Creeks
- Recharge Basins

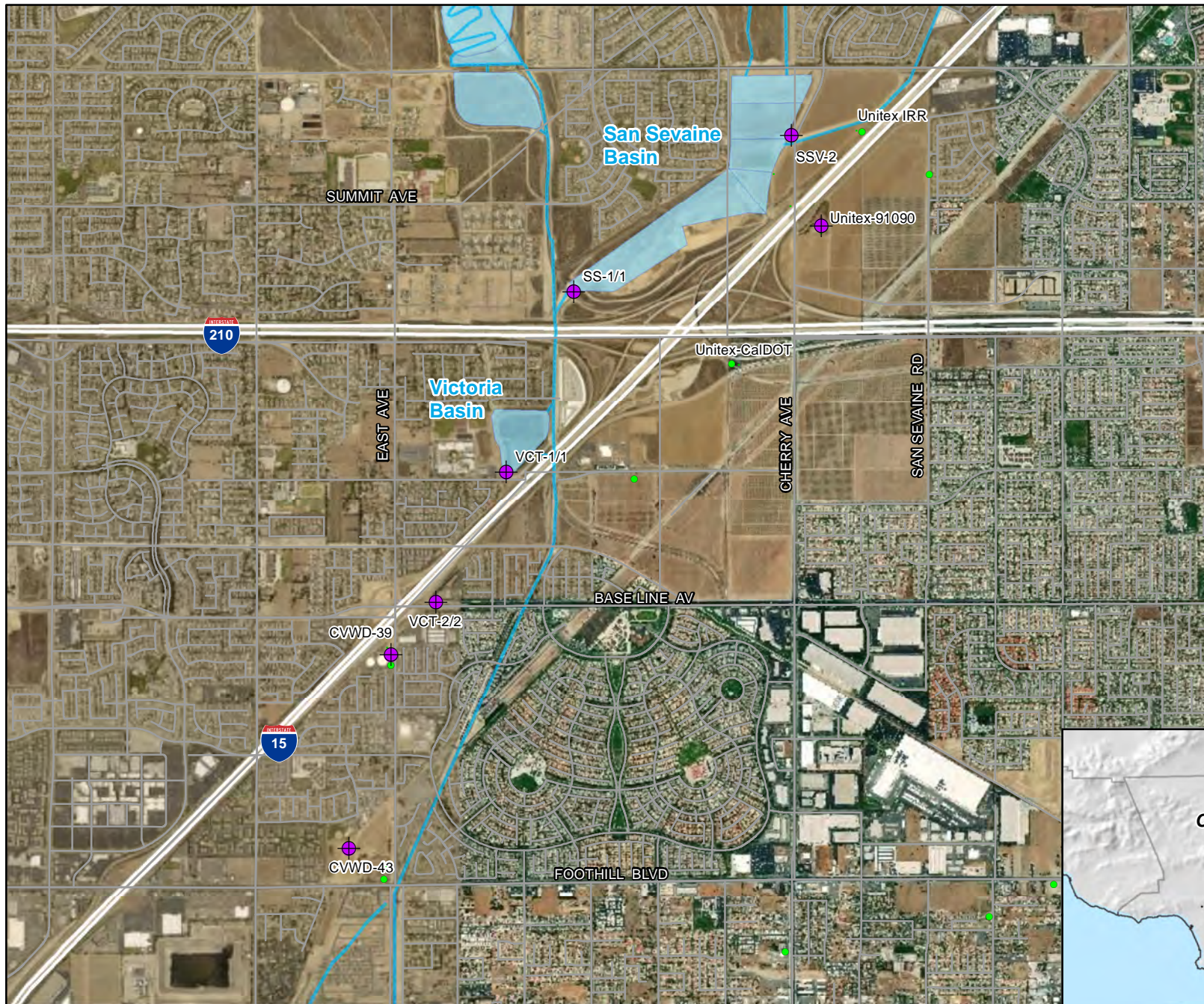


Monitoring Well Network
Declez and RP3 Basins

Figure 2-6

Recycled Water Recharge Program





Main Map Features

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



Monitoring Well Network
San Seivaine and Victoria Basins

Figure 2-7

Recycled Water Recharge Program

