



Pietro Cambiaso
Manager of Compliance & Sustainability

Todd Corbin
General Manager

May 15, 2024

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 2024**

Dear Ms. Joy,

Inland Empire Utilities Agency and Chino Basin Watermaster hereby submit the *Quarterly Monitoring Report* for the first quarter of 2024 (1Q24), January 1 through March 31, 2024, 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 1Q24, 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); notification level for Perfluorooctanoic acid (PFOA); and secondary MCL for odor.

Chino Basin Watermaster hereby certifies that, during the period of January 1 through March 31, 2024, 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 Sevaine, Turner, and Victoria Basins. In 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.

Handwritten signature of Pietro Cambiaso in blue ink.

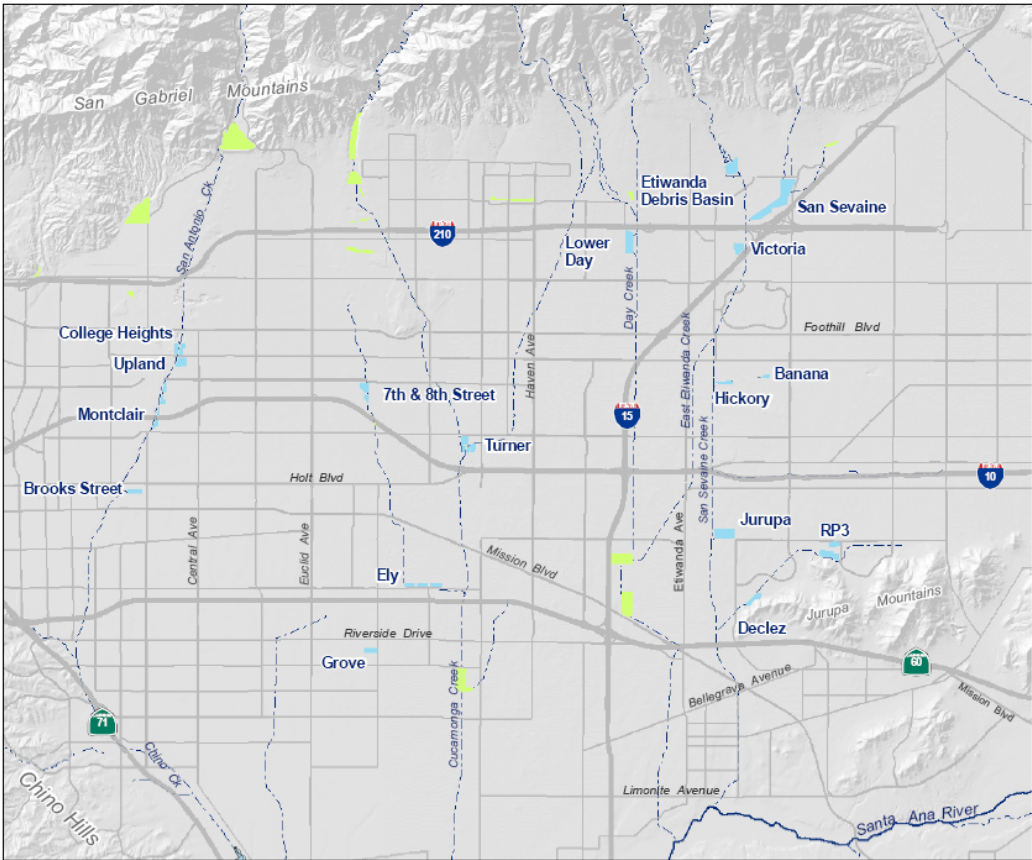
Pietro Cambiaso, P.E.
Manager of Compliance & Sustainability

Handwritten signature of Todd Corbin in blue ink.

Todd Corbin
General Manager

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report January 1 through March 31, 2024



Prepared by:



May 15, 2024

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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 2024 (1Q24).

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 1Q24 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. The total nitrogen (TN) limit of 10 mg/L (Title 22 §60320.110) must be met in the recycled water prior to groundwater recharge. 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 1Q24, 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) with effluent limitations of 8 mg/L and 550 mg/L, respectively. TDS and TIN were not exceeded during 1Q24.

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 2Q23 through 1Q24 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 1Q24, IEUA chose the 25-foot below ground surface lysimeter at the Brooks Basin (BRK-LYS-25) as the compliance point. The Brooks Basin lysimeter was selected as the compliance point because the basin received consistent recycled water recharge and recycled water was present at the 25-foot depth based on electrical conductivity (EC) measurements.

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 1Q24 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 exceptions of Perfluorooctanoic acid (PFOA)*; secondary MCLs for required constituents, *with the exception of odor*; and oil & grease. 1,2,3-TCP, PFOA, and odor 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 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 applicable to IEUA’s recycled water groundwater recharge only. The project team identified the initial strategies to carry out the 1,2,3-TCP investigation; the following actions have been completed:
 - A 1,2,3-TCP method assessment plan was submitted to DDW and Regional Board for their review and comment on March 22, 2022.
 - The last set of comments from the DDW was received on April 27, 2022.
 - Trussell Technologies revised the plan, and the plan was re-submitted for review on June 13, 2022.
 - IEUA received an email on September 16, 2022 from DDW asking if the DWRL_123TCP (DWRL) method has been incorporated in the method assessment plan.
 - IEUA Compliance staff has confirmed that the DWRL method has been incorporated and the revised plan was submitted to DDW on June 6, 2023.

At the time of this reporting, the testing for the method assessment plan has taken place to evaluate the analytical methods and impact of preservative on 1,2,3-TCP concentrations. In a meeting held on April 2, 2024, IEUA and Trussell Technologies presented the method assessment results. Additionally, preliminary results from running 1,2,3-TCP analysis through a longer GC column was presented, which showed that the compound that was previously reported as 1,2,3-TCP was not 1,2,3-TCP. Since this does not deviate from SRL-524 method, IEUA plans to use the longer GC column for analysis moving forward. The next step would be to formally demonstrate that the compound is not 1,2,3-TCP so we can resolve the past reported results that exceeded the MCL. The expected time to develop and execute this additional study is approximately one year. The plan for this phase of the study will take a few months to develop.

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.

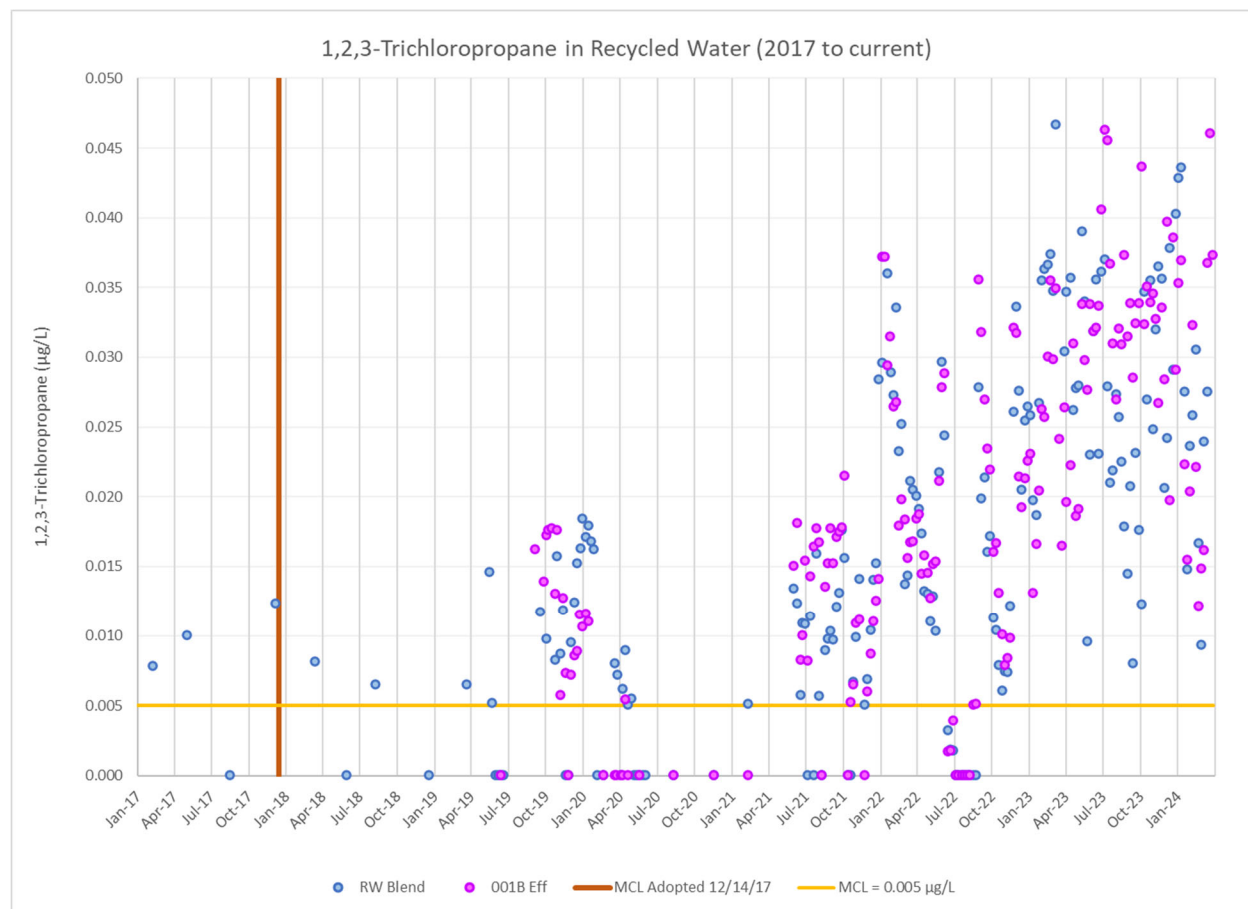
The table below shows weekly results of 1,2,3-TCP in recycled water from 2Q23 through 1Q24. The chart below shows the trend in 1,2,3-TCP from 2017 to present. As shown in the table and chart below, 1,2,3-TCP concentration sampled at RW Blend and 001B Effluent continued to exceed the MCL of 0.005 µg/ (or 5 ng/L) during the weekly monitoring events in the last four-quarters.

Date	RW Blend (ng/L)	4-week avg (ng/L)
04/03/23	52	43
04/12/23	53	47
04/19/23	30	46
04/26/23	35	43
05/03/23	36	38
05/10/23	26	32
05/17/23	28	31
05/24/23	28	29
05/31/23	39	30
06/07/23	34	32
06/15/23	10	28
06/21/23	23	26
06/28/23	32	25
07/05/23	37	33
07/12/23	28	31
07/19/23	21	31
07/26/23	22	27
08/02/23	27	25
08/09/23	26	24
08/16/23	22	24
08/23/23	18	23
08/30/23	14	20
09/06/23	21	19
09/13/23	8	15
09/20/23	23	17
09/27/23	18	17
10/04/23	12	15
10/11/23	35	22
10/18/23	27	23
10/25/23	35	27
11/01/23	25	30
11/08/23	32	30
11/15/23	36	32
11/22/23	36	32
11/29/23	21	31
12/06/23	24	29
12/13/23	38	30
12/20/23	29	28
12/27/23	40	33
01/03/24	43	37
01/10/24	44	42
01/17/24	28	38
01/24/24	15	32
01/31/24	24	27
02/07/24	26	23

Date	001B Eff (ng/L)	4-week avg (ng/L)
04/03/23	24	31
04/12/23	16	26
04/19/23	26	25
04/26/23	20	22
05/03/23	22	21
05/10/23	31	25
05/17/23	19	23
05/24/23	19	23
05/31/23	34	26
06/07/23	30	25
06/15/23	28	28
06/21/23	34	31
06/28/23	32	31
07/05/23	46	38
07/12/23	46	42
07/19/23	37	42
07/26/23	31	40
08/02/23	27	35
08/09/23	32	32
08/16/23	31	30
08/23/23	37	32
08/30/23	31	33
09/06/23	34	33
09/13/23	28	33
09/20/23	32	32
09/27/23	34	32
10/04/23	44	35
10/11/23	32	36
10/18/23	35	36
10/25/23	34	36
11/01/23	35	34
11/08/23	33	34
11/15/23	27	32
11/22/23	34	32
11/29/23	28	30
12/06/23	40	32
12/13/23	20	30
12/20/23	39	32
12/28/23	29	32
01/03/24	35	31
01/10/24	37	35
01/17/24	22	31
01/24/24	15	28
01/31/24	20	26
02/07/24	32	25

Date	RW Blend (ng/L)	4-week avg (ng/L)
02/14/24	31	24
02/21/24	17	24
02/28/24	9	21
03/06/24	24	20
03/13/24	28	19
03/20/24	59	30
03/27/24	59	42

Date	001B Eff (ng/L)	4-week avg (ng/L)
02/14/24	22	22
02/21/24	12	20
02/28/24	15	20
03/06/24	16	19
03/13/24	37	20
03/20/24	46	25
03/27/24	37	30



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.

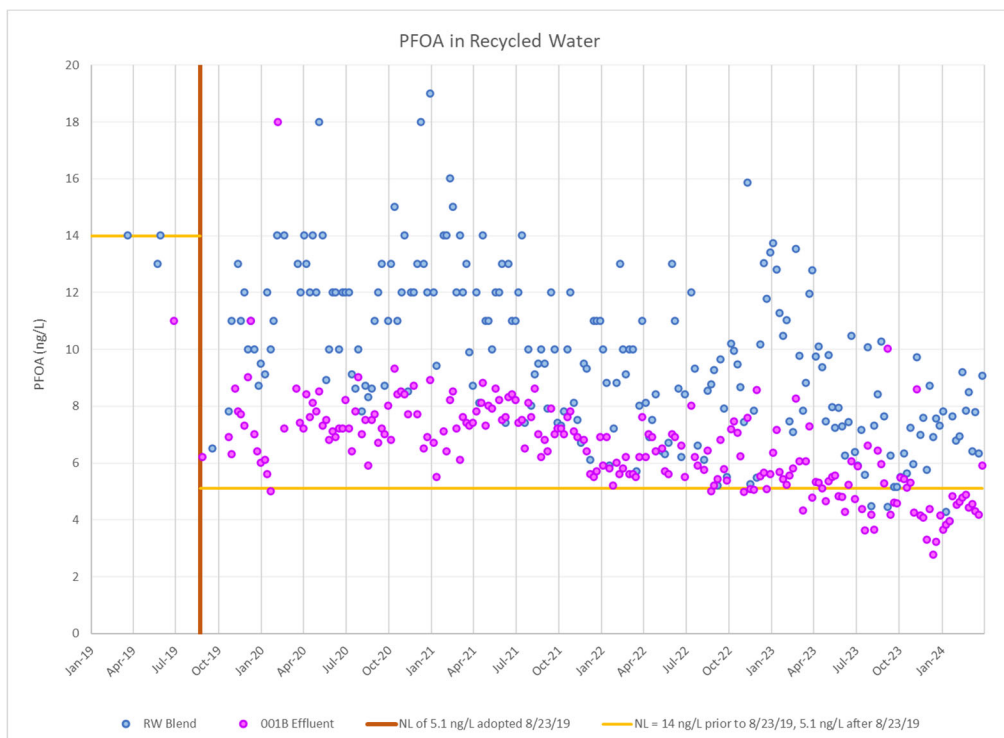
- IEUA completed the sixteen consecutive weeks of sampling the RW Blend and 001B Effluent per §60320.120(b)(2) during 1Q20 and notified the DDW and the Regional Board after the final results were received. Notifications of exceedance were emailed to the Regional Board and DDW on February 25, 2020 for 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.
- In a meeting on January 17, 2024, IEUA provided DDW staff with an update on the PFOA Corrective Actions Report. An updated Corrective Actions Report with the University of California Irvine (UCI) PFAS Research Project will be submitted when the final report becomes available. The research project is a sewershed-scale analysis of PFAS in wastewater from domestic, commercial, and industrial sewerage system users. Additionally, IEUA is expanding sewershed monitoring efforts to study PFAS in the IEUA service area.

The table below shows weekly results of PFOA in recycled water from 2Q23 through 1Q24. The chart below shows the trend in PFOA in recycled water from 2019 to present. As shown in the table and chart below, PFOA concentration sampled at RW Blend and 001B Effluent continued to exceed the MCL of 5.1 ng/L during the weekly monitoring events in the last four-quarters.

Date	RW Blend (ng/L)	4-week avg (ng/L)	Date	001B Eff (ng/L)	4-week avg (ng/L)
04/05/23	9.7	10.8	04/05/23	5.3	5.9
04/12/23	10.1	11.1	04/12/23	5.3	5.7
04/19/23	9.4	10.5	04/19/23	5.1	5.1
04/26/23	7.5	9.2	04/26/23	4.6	5.1
05/03/23	9.8	9.2	05/03/23	5.4	5.1
05/10/23	8.0	8.6	05/10/23	5.5	5.2
05/17/23	7.2	8.1	05/17/23	5.6	5.3
05/24/23	7.9	8.2	05/24/23	4.8	5.3
05/31/23	7.3	7.6	05/31/23	4.8	5.2
06/07/23	6.3	7.2	06/07/23	4.3	4.9
06/14/23	7.4	7.2	06/14/23	5.2	4.8
06/21/23	10.5	7.9	06/21/23	6.1	5.1
06/28/23	6.4	7.6	06/28/23	4.7	5.1
07/05/23	5.9	7.5	07/05/23	5.9	5.5
07/12/23	7.2	7.5	07/13/23	4.4	5.3
07/19/23	5.6	6.3	07/19/23	3.6	4.6
07/26/23	10.1	7.2	07/26/23	6.6	5.1
08/02/23	4.5	6.8	08/02/23	4.2	4.7
08/08/23	7.3	6.9	08/09/23	3.6	4.5
08/16/23	8.4	7.6	08/16/23	6.4	5.2
08/23/23	10.3	7.6	08/23/23	6.0	5.1
08/30/23	7.6	8.4	08/30/23	5.3	5.3
09/06/23	4.5	7.7	09/06/23	10.0	6.9
09/13/23	6.3	7.2	09/13/23	4.2	6.4
09/20/23	5.1	5.9	09/20/23	4.6	6.0
09/27/23	5.2	5.3	09/27/23	4.6	5.8

Date	RW Blend (ng/L)	4-week avg (ng/L)
10/04/23	5.5	5.5
10/11/23	6.3	5.5
10/18/23	5.6	5.7
10/25/23	7.2	6.2
11/01/23	6.0	6.3
11/08/23	9.7	7.1
11/15/23	7.0	7.5
11/22/23	7.6	7.6
11/29/23	5.7	7.5
12/06/23	8.7	7.3
12/13/23	6.9	7.2
12/20/23	7.6	7.2
12/27/23	7.3	7.6
01/03/24	7.8	7.4
01/10/24	4.3	6.7
01/17/24	4.0	5.8
01/24/24	7.6	5.9
01/31/24	6.8	5.7
02/07/24	6.9	6.3
02/14/24	9.2	7.6
02/21/24	7.8	7.7
02/28/24	8.5	8.1
03/06/24	6.4	8.0
03/13/24	7.8	7.6
03/20/24	6.3	7.2
03/27/24	9.1	7.4

Date	001B Eff (ng/L)	4-week avg (ng/L)
10/04/23	5.5	4.7
10/11/23	5.4	5.0
10/18/23	5.1	5.2
10/25/23	5.3	5.3
11/01/23	8.6	6.1
11/08/23	4.2	5.8
11/15/23	4.1	5.6
11/22/23	4.1	5.3
11/29/23	3.3	3.9
12/06/23	4.4	4.0
12/13/23	2.8	3.6
12/20/23	3.2	3.4
12/27/23	4.2	3.6
01/03/24	3.7	3.4
01/10/24	3.8	3.7
01/17/24	4.0	3.9
01/24/24	4.8	4.1
01/31/24	4.5	4.3
02/01/24	4.6	4.5
02/14/24	4.8	4.7
02/21/24	4.9	4.7
02/28/24	4.4	4.7
03/06/24	4.5	4.6
03/13/24	4.3	4.5
03/20/24	4.2	4.4
03/27/24	5.9	4.7



Odor

Odor has a secondary MCL of 3 Threshold Odor Number (TON) in the Recycled Water Specification A.3. The 4-quarter running average (using the four most recent quarterly odor values since odor is an annual monitoring requirement) for 2Q23 were 6 TON and 7 TON at the RW Blend and 001B Effluent, respectively, causing the threshold odor compliance metric to exceed the secondary MCL. Order No. R8-2007-0039 allows compliance for secondary MCLs to be determined at the mound monitoring well. Based on the mound monitoring well data (Table 2-9), threshold odor did not exceed 3 TON at all the nearest downgradient monitoring wells during 2Q23. The 4-quarter running average will remain the same until the next annual sampling is conducted.

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 RW Blend with a correction factor of 45 percent for TOC and 83 percent for TN.
- Declez 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.

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. During 1Q24, there were no exceedances of TOC and TN at basins based on the alternative monitoring plans. 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 1Q24 as demonstrated in Table 2-1. However, 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 Sevaine 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 1Q24, diluent water quality sampling of five stormwater sites was conducted. Table 2-7a lists the results of the stormwater sampling and analyses for 1Q24. The maximum level to trigger a source water evaluation was exceeded for PFOA, PFOS, and aluminum during the 1Q24 monitoring. 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 water from Silverwood Lake, the source of imported water for recharge.

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, Decluz, RP3, 7th & 8th Street, Brooks Street, San Sevaine, 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 1Q24 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 1Q24, the following constituents were detected above the MCLs:

Primary MCL Exceedance

- NO₃-N samples collected from monitoring wells at 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 15 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

- Turbidity was higher than the secondary MCL of 5 NTU at 8TH-1/1, 8TH-1/2, 8TH-2/2, and SSV-2.
- Color was higher than the secondary MCL of 15 units at 8TH-1/1.
- TDS was higher than the secondary MCL of 500 mg/L at Bishop of SB Corp. – DOM.
- TDS and EC were higher than their secondary MCLs of 500 mg/L and 900 µmhos/cm, respectively, at Alcoa MW3, Alcoa MW1, 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 (2022 State of the Basin) was prepared by West Yost Associates for the CBWM in June 2023. The 2022 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-3	Ely MW2
RP3	RP3-1/1	Southridge JHS
Turner	T-1/2	T-2/2
Victoria & San Sevaine	SSV-2 & VCT-1/1	VCT-2/2
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).

3. Recharge Operations

IEUA’s GWR staff records the daily volumes of water routed to the recharge basins. The 7th & 8th St, Banana, Brooks, Declez, 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 1Q24: Ely MW1 well was permanently abandoned and replaced by ELY-3; Pomona Well 34 was having issues that were not resolved during 1Q24; California Speedway – Infield Well has a motor issue; CVWD Well 39 is out of service due to a fire; and DCZ-1/1 is pending rehabilitation to correct turbidity issues.

5. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater in 1Q24 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 no injection activity during 1Q24. Table 6-1 summarizes the monthly volumes and TIN/TDS of injected and recovered water for the last year (2Q23 to 1Q24) and the mass balance of TIN/TDS from the injection-recovery cycles.

7. Exceedance Summary Table

The table below summarizes the recycled water, diluent water, and monitoring well exceedances from 1Q24.

Sample Type	Site	Exceedance
RW	RW Blend	Primary MCL (0.005 µg/L) – 1,2,3-Trichloropropane NL (5.1 ng/L) – PFOA Secondary MCL (3 TON) – Odor (this will remain until next annual sampling)
RW	001B Effluent	Primary MCL (0.005 µg/L) – 1,2,3-Trichloropropane Secondary MCL (3 TON) - Odor (this will remain until next annual sampling)
Diluent-Stormwater	Cucamonga Creek @ Turner 1&2	Primary MCL (1000 µg/L) - Aluminum NL (5.1 ng/L) – PFOA
Diluent-Stormwater	Deer Creek @ Turner 3&4	Primary MCL (1000 µg/L) - Aluminum NL (5.1 ng/L) – PFOA NL (6.5 ng/L) – PFOS
Diluent-Stormwater	San Antonio Creek @ Montclair	Primary MCL (1000 µg/L) - Aluminum
Diluent-Stormwater	W Fontana Channel @ Banana Basin	NL (1 µg/L) – 1,4 – Dioxane ¹
Well	Alcoa MW1	Secondary MCL (200 µmhos/cm) - EC Secondary MCL (500 mg/L) - TDS
Well	Alcoa MW3	Primary MCL (10 mg/L) – NO ₃ -N Secondary MCL (200 µmhos/cm) - EC Secondary MCL (500 mg/L) - TDS
Well	Southridge JHS	Primary MCL (10 mg/L) – NO ₃ -N Secondary MCL (200 µmhos/cm) - EC Secondary MCL (500 mg/L) – TDS
Well	8TH-1/1	Secondary MCL (15 units) – Color Secondary MCL (5 NTU) - Turbidity
Well	8TH-1/2	Secondary MCL (5 NTU) - Turbidity
Well	8TH-2/1	Primary MCL (10 mg/L) - NO ₃ -N
Well	8TH-2/2	Secondary MCL (5 NTU) - Turbidity
Well	BRK-1/2	Primary MCL (10 mg/L) – NO ₃ -N
Well	Bishop of SB Corp	Primary MCL (10 mg/L) – NO ₃ -N Secondary MCL (500 mg/L) – TDS
Well	SSV-2	Secondary MCL (5 NTU) - Turbidity

¹In 4Q23, levels of 1,4-Dioxane exceeded notification limit of 1 µg/L. However, upon resampling in 1Q24, no such exceedance was detected.

Table 2-1a
 Recycled Water Monitoring: RP-1 & RP-4 Effluent Water Quality for January 2024
 (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	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	2;5;10	16 ⁵	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
			10 / 5 ⁶			6<pH<9				2.2;23;240			10 / 5 ⁶			6<pH<9				2.2;23;240
01/01/24	0.6	6.5				7.1	681			<1	0.5	5.8			7.4	595				<1
01/02/24	0.6	6.4				7.1	698			1	0.5	5.8			7.2	584				<1
01/03/24	0.6	7.0	4.5	5.4	4.6	7.0	690	418		<1	0.5	5.7	3.7	4.5	3.7	7.0	576	394		<1
01/04/24	0.5	6.6				7.0	677			<1	0.5	5.7			7.0	575				1
01/05/24	0.6	6.5				7.0	688			2	0.5	5.5			7.0	576				<1
01/06/24	0.6	6.7				7.0	697			<1	0.5	5.5			7.0	577				<1
01/07/24	0.5	6.8	4.4	5.1	4.5	7.0	690	444		<1	0.5	5.8	4.3	4.9	4.3	7.1	580	404		<1
01/08/24	0.5	6.9				7.0	679			<1	0.5	5.8			7.1	585				<1
01/09/24	0.6	6.9				7.0	696		162	1	0.5	5.9			7.1	589				<1
01/10/24	0.6	6.7	3.8	4.8	3.8	7.0	690			<1	0.5	5.5	4.6		4.6	7.1	591			1
01/11/24	0.6	7.0				7.0	700			1	0.5	5.6			7.1	587		160		<1
01/12/24	0.6	6.7				7.0	685			<1	0.5	5.3			7.1	592				<1
01/13/24	0.6	6.8				7.0	707			<1	0.5	5.6			7.1	590				<1
01/14/24	0.6	7.1	4.5	5.4	4.5	7.0	687	422		<1	0.5	5.7	4.8	5.2	4.8	7.1	589	410		<1
01/15/24	0.7	7.1				7.0	678			<1	0.5	5.6			7.1	617				<1
01/16/24	0.7	7.1				7.0	722			<1	0.5	5.6			7.0	640				<1
01/17/24	0.7	6.7	4.4	5.5	4.5	7.3	760			<1	0.5	5.6	3.9		4.0	7.0	643			<1
01/18/24	0.7	6.6				7.2	774			<1	0.5	5.7			7.0	641				<1
01/19/24	0.7	6.7				7.3	789			<1	0.5	5.6			7.0	636				<1
01/20/24	0.8	7.0				7.3	785			<1	0.5	5.6			7.0	639				<1
01/21/24	0.8	7.2	4.5	5.6	4.6	7.2	746	432		<1	0.6	5.8	5.0	5.1	5.1	7.0	641	422		<1
01/22/24	0.9	7.0				7.2	738			<1	0.6	5.9			7.0	648				<1
01/23/24	0.9	6.9				7.0	716			1	0.7	5.6			6.9	648				<1
01/24/24	0.9	6.9	4.4	5.3	4.4	7.1	734			1	0.6	6.1	3.4		3.4	6.9	647			<1
01/25/24	0.8	7.0				7.1	757			<1	0.6	5.4			7.0	643				<1
01/26/24	0.9	6.7				7.1	768			<1	0.6	5.6			7.0	638				<1
01/27/24	1.0	6.9				7.1	776			1	0.7	5.6			7.0	637				<1
01/28/24	1.0	7.4	3.9	5.1	3.9	7.1	766	440		<1	0.7	6.1	4.2	5.0	4.3	7.0	642	424		<1
01/29/24	1.0	7.3				7.1	706			1	0.7	6.2			7.0	669				<1
01/30/24	1.0	7.1				7.1	711			6	0.7	6.0			7.0	688				<1
01/31/24	0.6	6.8	3.6	4.8	3.6	7.1	877			<1	0.7	6.0	4.0		4.1	7.0	691			<1
Avg	0.7	6.9	4.2	5.2	4.3	7.1	725	431	162	<1	0.6	5.7	4.2	4.9	4.2	7.0	619	411	160	<1
Min	0.5	6.4	3.6	4.8	3.6	7.0	677	418	162	1	0.5	5.3	3.4	4.5	3.4	6.9	575	394	160	<1
Max	1.0	7.4	4.5	5.6	4.6	7.3	877	444	162	6	0.7	6.2	5.0	5.2	5.1	7.4	691	424	160	1

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

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

¹ Turbidity and coliform must meet water quality standards for disinfected tertiary treated recycled water, as specified in NPDES No. CA8000409, Order No. R8-2009-0021.

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

³ TDS and TIN limits are based on the 12-month running average of the combined effluent from all plants, which are presented in Table 2-2.

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

⁵ TOC shall not exceed 16 mg/L for more than two consecutive samples and an average of the last 4 sample results. TOC compliance can be met at a point prior to reaching the regional groundwater table, including lysimeters.

⁶ DDW limit is 10 mg/L 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 2024
 (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}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵	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
02/01/24	0.6	6.2				7.1	851			1	0.8	5.8			7.0	696				<1
02/02/24	0.5	6.0				7.0	802			<1	0.6	5.5			7.0	680				<1
02/03/24	0.6	6.2				7.1	838			<1	0.5	5.6			7.0	687				<1
02/04/24	0.6	6.6	4.6	5.4	4.7	7.1	844	432		<1	0.5	0.0			7.0	698				<1
02/05/24	NA	5.5				6.7	704			<1	0.7	5.8	4.4	5.0	4.4	7.0	625	396		1
02/06/24	NA	9.2				6.5	786			<1	0.7	5.8			6.8	503		129		<1
02/07/24	NA	7.1	3.3	4.6	3.4	6.8	722			<1	0.7	6.1	5.4		5.5	6.8	509			<1
02/08/24	0.9	7.1				6.9	702			<1	0.7	6.3			6.8	573				<1
02/09/24	0.9	7.4				6.8	745			<1	0.8	6.5			6.8	582				<1
02/10/24	1.0	7.7				7.0	767			3	0.8	6.7			6.9	596				<1
02/11/24	0.9	7.3	3.7	4.5	3.8	7.0	755	444	159	<1	0.8	7.2	3.1	4.2	3.1	6.9	615	430		<1
02/12/24	0.8	7.3				7.0	751			<1	0.8	7.4			6.9	621				<1
02/13/24	1.0	7.7				7.0	773			<1	0.9	8.0			6.9	623				<1
02/14/24	0.6	7.8	3.0	4.2	3.0	7.0	762			1	0.9	7.0	3.3		3.4	6.9	618			<1
02/15/24	0.6	7.3				7.0	765			<1	0.9	6.6			6.9	612				<1
02/16/24	0.7	7.3				7.0	765			<1	0.8	6.2			7.0	607				<1
02/17/24	0.7	7.8				7.0	757			<1	0.7	6.2			7.0	604				<1
02/18/24	0.7	7.8				7.0	755			<1	0.6	6.3			7.0	605				<1
02/19/24	0.7	8.2	4.0	5.2	4.0	7.0	740			<1	0.6	6.7			7.0	609				<1
02/20/24	0.6	7.2				7.0	716			<1	0.6	6.7			7.0	603				1
02/21/24	0.7	7.1	2.5	3.6	2.5	6.9	647	388		<1	0.6	6.6	3.6	4.5	3.7	6.9	552	412		<1
02/22/24	0.6	7.2				7.0	697			<1	0.5	6.3			6.8	552				<1
02/23/24	0.6	7.6				7.0	719			<1	0.6	6.3			6.9	581				1
02/24/24	0.6	7.7				7.0	747			<1	0.6	6.6			6.9	600				<1
02/25/24	0.6	7.9	3.7	5.2	3.7	7.0	751	432		<1	0.6	6.8	3.6	5.0	3.6	6.9	613	418		<1
02/26/24	0.5	8.0				7.0	743			<1	0.6	6.8			6.9	616				<1
02/27/24	0.6	7.9				7.0	742			<1	0.6	7.1			6.9	612				<1
02/28/24	0.7	7.8	3.3	4.8	3.4	7.0	686			1	0.7	6.7	3.6		3.6	6.9	606			<1
02/29/24	0.7	7.5				7.0	715			1	0.6	6.3			6.9	602				<1
Avg	0.7	7.4	3.5	4.7	3.5	7.0	750	424	159	<1	0.7	6.3	3.9	4.7	3.9	6.9	607	414	129	<1
Min	0.5	5.5	2.5	3.6	2.5	6.5	647	388	159	<1	0.5	0.0	3.1	4.2	3.1	6.8	503	396	129	<1
Max	1.0	9.2	4.6	5.4	4.7	7.1	851	444	159	3	0.9	8.0	5.4	5.0	5.5	7.0	698	430	129	1

Note:

Bolded characters signify an exceedance of a permit limitation

NA: No recycled water used during storm event.

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 2024
 (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}
	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL	NTU	mg/L	mg/L	mg/L	mg/L	unit	µhmo/cm	mg/L	mg/L	mpn/100mL
Limits	2;5;10	16 ⁵		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
03/01/24	0.8	7.3				7.0	792			1	0.6	6.3				6.9	605			<1
03/02/24	0.8	7.4				7.1	768			<1	0.6	6.5				6.9	606			<1
03/03/24	0.8	7.5	4.2	5.7	4.2	7.0	733	436		1	0.7	7.0	4.1	4.9	4.1	6.9	597	426		<1
03/04/24	0.8	7.9				7.0	758			<1	0.7	6.9				6.9	620			<1
03/05/24	0.9	7.8				7.1	797		150	<1	0.6	6.8				6.9	627		141	<1
03/06/24	0.8	7.6	3.2	4.3	3.2	7.1	809			1	0.6	6.4	3.8		3.9	6.9	633			<1
03/07/24	0.7	7.0				7.0	807			186	0.7	6.6				6.9	629			<1
03/08/24	0.7	7.1				7.0	798			<1	0.7	6.4				6.8	619			<1
03/09/24	0.7	7.5				7.0	829			<1	0.7	6.7				6.8	619			<1
03/10/24	0.7	8.0	3.5	4.6	3.5	7.0	837	448		<1	0.7	6.9	4.0	4.4	4.1	6.8	626	420		<1
03/11/24	0.7	7.9				7.0	823			<1	0.7	7.0				6.9	630			<1
03/12/24	0.7	7.9				7.0	793			1	0.7	6.9				6.9	633			<1
03/13/24	0.7	7.8	3.5	4.3	3.5	7.0	750			<1	0.7	6.9	5.1		5.1	6.9	635			<1
03/14/24	0.7	7.6				7.0	756			<1	0.7	6.7				6.9	640			<1
03/15/24	0.8	7.8				6.9	769			<1	0.7	6.7				6.9	645			<1
03/16/24	0.7	8.0				7.0	784			<1	0.7	7.0				6.9	653			<1
03/17/24	0.7	7.9	3.6	4.2	3.6	6.9	767	434		<1	0.7	7.2	4.2	5.0	4.2	6.8	653	468		<1
03/18/24	0.7	8.5				6.9	752			<1	0.7	7.5				6.8	646			<1
03/19/24	0.7	8.5				7.0	760			4	0.7	7.5				6.9	651			<1
03/20/24	0.7	8.1	3.4	4.6	3.4	7.1	747			1	0.7	7.1	3.9		4.0	6.9	649			<1
03/21/24	0.7	8.2				7.1	745			<1	0.7	7.1				6.9	656			<1
03/22/24	0.7	7.9				7.1	730			<1	0.7	7.0				6.8	657			<1
03/23/24	0.8	8.2				7.2	730			<1	0.7	7.0				6.9	657			<1
03/24/24	0.8	8.4	4.6	5.9	4.7	7.2	735	428		<1	0.7	7.3	4.3	5.3	4.3	6.9	655	436		<1
03/25/24	0.9	9.0				7.1	702			<1	0.7	7.5				6.9	704			<1
03/26/24	0.9	8.4				7.1	727			<1	0.7	7.4				6.9	750			<1
03/27/24	0.9	8.2	3.3	4.4	3.3	7.1	730			<1	0.7	7.2	4.2		4.3	6.8	752			<1
03/28/24	0.8					7.1	723			<1	0.7	7.0				6.8	750			<1
03/29/24	0.7	8.0				7.2	725			1	0.6	6.9				6.8	753			1
03/30/24	0.8	8.0				7.1	693			<1	0.7	7.0				6.8	749			<1
03/31/24	1.1	7.7	4.5	5.3	4.5	7.1	624	388		<1	0.7	7.3	4.7	5.1	4.7	6.8	702	400		<1
Avg	0.8	7.9	3.7	4.8	3.8	7.0	758	427	150	<7	0.7	7.0	4.3	4.9	4.3	6.9	658	430	141	<1
Min	0.7	7.0	3.2	4.2	3.2	6.9	624	388	150	<1	0.6	6.3	3.8	4.4	3.9	6.8	597	400	141	<1
Max	1.1	9.0	4.6	5.9	4.7	7.2	837	448	150	186	0.7	7.5	5.1	5.3	5.1	6.9	753	468	141	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-23	4.8	4.6	488	486
May-23	4.8	4.6	458	484
Jun-23	4.5	4.9	446	481
Jul-23	5.2	5.0	446	477
Aug-23	4.3	5.0	456	475
Sep-23	5.3	5.0	449	471
Oct-23	4.7	5.0	458	469
Nov-23	4.4	5.0	465	466
Dec-23	4.9	5.0	478	464
Jan-24	4.7	5.0	469	464
Feb-24	4.1	4.8	475	465
Mar-24	4.1	4.8	479	464
Avg	4.6	4.9	464	472
Min	4.1	4.6	446	464
Max	5.3	5.0	488	486
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	2Q23	3Q23	4Q23	1Q24	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	239	<25	<25	<25	<79	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	<0.19	7	MFL	EPA 100.2
Barium	21	24	28	26	25	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	<2	<2	<2	<2	50	µg/L	EPA 200.8
Chromium VI ²	0.2	0.3	0.4	0.3	0.3	10	µg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	µg/L	OIA-1677, DW
Fluoride	0.2	0.1	0.1	0.2	0.1	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	2	2	2	2	2	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-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<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 2Q23 text	see 3Q23 text	see 4Q23 text	see 1Q24 text	>0.005	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.4	<0.4	<1	<0.5	2	µg/L	EPA 505/508.1
Atrazine	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Bentazon	<0.5	<2	<2	<2	<2	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	<2	<2	<2	<2	18	µg/L	EPA 531.2
Chlordane	<0.1	<2.5	<2	<2.5	<2	0.1	µg/L	EPA 505/508.1
2,4-D	<0.1	<0.4	<0.4	<0.4	<0.3	70	µg/L	EPA 515.4
Dalapon	<1	<10	<10	5	<7	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	<0.5	<0.5	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	<0.4	<0.4	<0.4	<0.4	7	µg/L	EPA 515.4
Diquat	<0.4	<4	<4	<4	<3	20	µg/L	EPA 549.2
Endothall	<5	<45	<45	<45	<35	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.02	<0.05	<0.02	2	µg/L	EPA 505/508.1

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	2Q23	3Q23	4Q23	1Q24	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.02	<0.02	<0.02	<0.02	0.05	µg/L	EPA 504.1/524.3
Glyphosate	<6	<50	<10	<5	<18	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.05	<0.02	0.01	µg/L	EPA 505/508.1
Heptachlor Epoxide	<0.01	<0.01	<0.02	<0.05	<0.02	0.01	µg/L	EPA 505/508.1
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	<0.01	<0.02	<0.05	<0.02	0.2	µg/L	EPA 505/508.1
Methoxychlor	<0.05	<0.01	<0.02	<0.05	<0.03	30	µg/L	EPA 505/508.1
Molinate	<0.5	<0.5	<0.5	<0.5	<0.5	20	µg/L	EPA 525.2
Oxamyl	<0.5	<2	<2	<2	<2	50	µg/L	EPA 531.2
Pentachlorophenol	<0.04	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 515.4
Picloram	<0.1	<0.6	<0.6	<0.6	<0.5	500	µg/L	EPA 515.4
PCB 1016	<0.07	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1221	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1232	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1242	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1248	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1254	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1260	<0.07	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
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	<5	<5	<5	<4	3	µg/L	EPA 505/508.1
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	5.8	6.2	6.1	5.4	4.9	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	<311	50	64	<608	258	20,000	pCi/L	EPA 906
Strontium-90	<3	<3	<3	<3	<3	8	pCi/L	EPA 905
Gross Beta Particle Activity	10	15	14	11	12	50	pCi/L	EPA 900.0
Uranium	<1	<1	<1	<1	<1	20	pCi/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals								
Aluminum	<25	<25	<25	<25	<25	200	µg/L	EPA 200.8
Copper	6.2	6.2	6.1	5.4	6.0	1000	µg/L	EPA 200.8
Corrosivity	-0.4 (Non-Cor.)	-0.3 (Non-Cor.)	-0.3 (Non-Cor.)	-0.4 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	NR	NR	NR	NR	<0.1	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	17	19	<15	20	18	300	µg/L	EPA 200.7
Manganese	10	7	7	10	9	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	12	NR	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	56	54	42	52	41	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁵	<1	<4	<2	<1	--	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<0.005	<0.005	<0.050	<0.005	<0.016	0.010	mg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.1	<0.01	<0.0	1	mg/L	EPA 300.0
Alternative Compliance Point Data								
	DCZ-LYS-25	DCZ-LYS-25	DCZ-LYS-25	BRK-LYS-25	==TTHMs			
	DCZ-LYS-25	DCZ-LYS-25	DCZ-LYS-25	BRK-LYS-25	==HAA5			
	2Q23	3Q23	4Q23	1Q24				
Total Trihalomethanes (TTHMs)	<2	<2	<2	<2	<2	80	µg/L	EPA 524.2
Total Haloacetic Acids (HAA5)	<2	<2	<2	<1	<2	60	µg/L	SM 6251B/EPA 552.3

NR: Not required this quarter

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

² As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

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

⁴ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually. However, if monitoring takes place more frequently than required, those results will be reported.

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

Bold & yellow highlight 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	2Q23	3Q23	4Q23	1Q24	4Q Run. Avg. ¹	Limit	Unit	Method
Inorganic Chemicals								
Aluminum	126	194	49	128	124	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	<0.19	7	MFL	EPA 100.2
Barium	13	16	5	13	12	1000	µg/L	EPA 200.8
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.8
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.8
Chromium	0.7	<2	<2	<2	<2	50	µg/L	EPA 200.8
Chromium VI ²	0.2	0.3	0.2	0.2	0.2	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	<0.5	<0.5	<0.5	<0.4	2	µg/L	EPA 245.1
Nickel	3	3	<1	3	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-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Monochlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl-tert-butyl ether	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Tetrachloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Toluene	<0.5	<0.5	<0.5	0.7	<0.6	150	µg/L	EPA 524.2
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5	<0.5	150	µg/L	EPA 524.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	<0.5	<0.5	<0.5	<0.5	<0.5	1200	µg/L	EPA 524.2
Vinyl Chloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
m,p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1750 ³	µg/L	EPA 524.2
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5		µg/L	EPA 524.2
1,2,3-Trichloropropane (added 7/2017)	see 2Q23 text	see 3Q23 text	see 4Q23 text	see 1Q24 text	>0.005	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<0.1	<0.4	<0.4	<1	<0.5	2	µg/L	EPA 505/508.1/508.1
Atrazine	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Bentazon	0.6	<2	<2	<2	<2	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	<2	<2	<2	<2	18	µg/L	EPA 531.2
Chlordane	<0.1	<2.5	<2	<2.5	<2	0.1	µg/L	EPA 505/508.1
2,4-D	<0.1	<0.4	<0.4	<0.4	<0.3	70	µg/L	EPA 515.4
Dalapon	4	5	<10	4	6	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1
Di(2-ethylhexyl)adipate	<0.5	<0.5	<0.5	<0.5	<0.5	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	<0.5	<0.5	<0.5	0.6	<0.5	4	µg/L	EPA 525.2
Dinoseb	<0.1	<0.4	<0.4	<0.4	<0.3	7	µg/L	EPA 515.4
Diquat	<0.4	<4	<4	<4	<3	20	µg/L	EPA 549.2
Endothall	<5	<45	<45	<45	<35	100	µg/L	EPA 548.1
Endrin	<0.01	<0.01	<0.04	<0.05	<0.03	2	µg/L	EPA 505/508.1

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	2Q23	3Q23	4Q23	1Q24	4Q Run. Avg. ¹	Limit	Unit	Method
Ethylene Dibromide	<0.01	<0.02	<0.02	<0.02	<0.02	0.05	µg/L	EPA 504.1/524.3
Glyphosate	<6	<50	<10	<5	<18	700	µg/L	EPA 547
Heptachlor	<0.01	<0.01	<0.01	<0.05	<0.02	0.01	µg/L	EPA 505/508.1
Heptachlor Epoxide	<0.01	<0.01	<0.02	<0.05	<0.02	0.01	µg/L	EPA 505/508.1
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	<0.05	<0.02	<0.05	<0.03	0.2	µg/L	EPA 505/508.1
Methoxychlor	<0.05	<0.01	<0.02	<0.05	<0.03	30	µg/L	EPA 505/508.1
Molinate	<0.5	<0.5	<0.5	<0.5	<0.5	20	µg/L	EPA 525.2
Oxamyl	<0.5	<2	<2	<2	<2	50	µg/L	EPA 531.2
Pentachlorophenol	0.08	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 515.4
Picloram	<0.1	<0.6	<0.6	<0.6	<0.5	500	µg/L	EPA 515.4
PCB 1016	<0.08	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1221	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1232	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1242	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1248	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1254	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
PCB 1260	<0.1	<2	<2	<2.5	<2	0.5	µg/L	EPA 505/508.1
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	<5	<5	<5	<4	3	µg/L	EPA 505/508.1
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<5	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Action Level Chemicals								
Copper	5.0	<3	<3	4.0	3.3	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	<251	200	429	239	280	20,000	pCi/L	EPA 906
Strontium-90	<3	<3	<3	<3	<3	8	pCi/L	EPA 905
Gross Beta Particle Activity	8	14	14	14	12	50	pCi/L	EPA 900.0
Uranium	<0.7	<0.7	<0.7	<1	<1	20	pCi/L	EPA 200.8
Secondary Maximum Contaminant Level Chemicals								
Aluminum	120	194	49	128	123	200	µg/L	EPA 200.8
Copper	5.0	<3	<3	4.0	3.8	1000	µg/L	EPA 200.8
Corrosivity	-0.5 (Non-Cor.)	-0.1 (Non-Cor.)	-0.4 (Non-Cor.)	-0.3 (Non-Cor.)	Non-Cor.	Non-Cor.	SI	SM 2330B
Foaming Agents (MBAS) ⁴	<0.1	NR	NR	NR	<0.1	0.5	mg/L	S5540C/EPA 425.1
Iron ⁴	<150	62	48	75	84	300	µg/L	EPA 200.7
Manganese	3	13	2	5	6	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	NR	NR	NR	7	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	19	6	24	17	5000	µg/L	EPA 200.8
Miscellaneous Regulated Constituents								
Oil & Grease ⁵	<1	<4	1	<1	--	1	mg/L	EPA 1664
Disinfection Byproducts								
Bromate	<0.005	<0.005	<0.050	<0.005	<0.016	0.010	mg/L	EPA 300.1/317
Chlorite	<0.01	<0.1	<0.1	<0.1	<0.1	1	mg/L	EPA 300.0

NR: Not required this quarter

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

² As of September 11, 2017 the MCL for hexavalent chromium that was established in 2014 is no longer in effect; the State Board does plan on establishing a new MCL in the near future.

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

⁴ 4-quarter running average is calculated based on the four most recent results. Monitoring is required annually. However, if monitoring takes place more frequently than required, those results will be reported.

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

Bold & yellow highlight 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	1Q24	Unit	Method	Constituent	1Q24	Unit	Method		
Volatile Organic Chemicals (VOCs)				Pesticides					
Acrolein	NR	µg/L	EPA 624	Aldrin	NR	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	1.6	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	69	µg/L	EPA 524.2/624	4,4'-DDD	NR	µg/L	EPA 525/608		
Dichlorobromomethane	14	µg/L	EPA 524.2/624	Dieldrin	NR	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	0.3	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 /BRK-LYS-25)	276 / <0.01	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	0.21	µg/L	EPA 522	1	
Acenaphthylene	NR	µg/L	EPA 625	Ethylene glycol	<10	mg/L	EPA 8015B	14	
Anthracene	NR	µg/L	EPA 625	Formaldehyde	46	µg/L	EPA 556	100	
Benzidine	NR	µg/L	EPA 625	HMX	<10	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	10	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)	2.2	ng/L	EPA 537.1	500	
Butyl benzyl phthalate	NR	µg/L	EPA 625	Perfluorohexanesulfonic acid (PFHxS)	<2	ng/L	EPA 537.1	3.0	
2-Chloronaphthalene	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)**	7.1	ng/L	EPA 537.1	5.1	
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2	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	RDX	<10	µg/L	EPA 524.4	200	
3,3-Dichlorobenzidine	NR	µg/L	EPA 625	Tertiary butyl alcohol	<2	µg/L	EPA 524.2	12	
Diethyl phthalate	NR	µg/L	EPA 625	1,2,4-trimethylbenzene	<0.5	µg/L	EPA 524.2	330	
Dimethyl phthalate	NR	µg/L	EPA 625	1,3,5-trimethylbenzene	<0.5	µg/L	EPA 524.2	330	
Di-n-butyl phthalate	NR	µg/L	EPA 625	2,4,6-Trinitrotoluene	<10	µg/L	EPA 8330B	1	
2,4-Dinitrotoluene	NR	µg/L	EPA 625	Vanadium	<5	µg/L	EPA 200.8	50	
2,6-Dinitrotoluene	NR	µg/L	EPA 625	Health-based and performance indicator CECs for Surface Application				RP3-1/1	
Di-n-octyl phthalate	NR	µg/L	EPA 625	1,4 - Dioxane	0.21	µg/L	EPA 522	0.2	
Azobenzene	NR	µg/L	EPA 625	N-nitrosodimethylamine (NDMA)	<2	ng/L	EPA 521	<2	
Fluoranthene	NR	µg/L	EPA 625	N-Nitrosomorpholine	3.8	ng/L	EPA 521	3.4	
Fluorene	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2	ng/L	EPA 537.1	7.2	
Hexachlorobutadiene	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	7.1	ng/L	EPA 537.1	5.8	
Hexachlorocyclopentadiene	NR	µg/L	EPA 625	Gemfibrozil	<4	ng/L	LC-MS-MS	<4	
Hexachloroethane	NR	µg/L	EPA 625	Iohexol	<5	ng/L	LC-MS-MS	<250	
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625	Sucralose	100000	ng/L	LC-MS-MS	56000	
Isophorone	NR	µg/L	EPA 625	Sulfamethoxazole	<4	ng/L	LC-MS-MS	29	
Naphthalene	NR	µg/L	EPA 625	ER-α (RW Blend / RP3-1/1)	<0.2	ng/L	Trussell Tech	<0.2	
Nitrobenzene	NR	µg/L	EPA 625	AhR (method pending approval)	--	ng/L	Trussell Tech	--	
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625	Bold & yellow highlight signifies an exceedance of a limit					
N-Nitrosodiphenylamine	NR	µg/L	EPA 625	NA: Not available from contract lab at time of reporting					
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	1Q24	Unit	Method	Constituent	1Q24	Unit	Method		
Volatile Organic Chemicals (VOCs)				Pesticides					
Acrolein	NR	µg/L	EPA 624	Aldrin	NR	µg/L	EPA 505/608		
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	1.8	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	49	µg/L	EPA 524.2/624	4,4'-DDD	NR	µg/L	EPA 525/608		
Dichlorobromomethane	12	µg/L	EPA 524.2/624	Dieldrin	NR	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				Chemicals w/ State Notification Levels (NLs)				NL	
2-Chlorophenol	NR	µg/L	EPA 625	Boron	0.3	mg/L	EPA 200.7	1	
2,4-Dichlorophenol	NR	µg/L	EPA 625	n-butylbenzene	<0.5	µg/L	EPA 524.2	260	
2,4-Dimethylphenol	NR	µg/L	EPA 625	sec-butylbenzene	<0.5	µg/L	EPA 524.2	260	
2-Methyl-4,6-dinitrophenol	NR	µg/L	EPA 625	tert-butylbenzene	<0.5	µg/L	EPA 524.2	260	
2,4-Dinitrophenol	NR	µg/L	EPA 625	Carbon disulfide	<0.5	µg/L	EPA 524.2	160	
2-Nitrophenol	NR	µg/L	EPA 625	Chlorate* (001B Eff / BRK-LYS-25)	103 / <0.01	µg/L	EPA 300.0	800	
4-Nitrophenol	NR	µg/L	EPA 625	2-Chlorotoluene	<0.5	µg/L	EPA 524.2	140	
4-Chloro-3-methylphenol	NR	µg/L	EPA 625	4-Chlorotoluene	<0.5	µg/L	EPA 524.2	140	
Phenol	NR	µg/L	EPA 625	Diazinon	<0.5	µg/L	EPA 525.2	1.2	
2,4,6-Trichlorophenol	NR	µg/L	EPA 625	Dichlorodifluoromethane (Freon 12)	<0.5	µg/L	EPA 524.2	1000	
Base/Neutral Extractibles				1,4 - Dioxane	0.22	µg/L	EPA 522	1	
Acenaphthene	NR	µg/L	EPA 625	Ethylene glycol	<10	mg/L	EPA 8015B	14	
Acenaphthylene	NR	µg/L	EPA 625	Formaldehyde	44	µg/L	EPA 556	100	
Anthracene	NR	µg/L	EPA 625	HMX	<10	µg/L	EPA 8330B	350	
Benzidine	NR	µg/L	EPA 625	Isopropylbenzene	<0.5	µg/L	EPA 524.2	770	
Benzo(a)anthracene	NR	µg/L	EPA 625	Manganese	5	µg/L	EPA 200.8	500	
Benzo(b)fluoranthene	NR	µg/L	EPA 625	Methyl isobutyl ketone (MIBK)	<2	µg/L	EPA 524.2	120	
Benzo(g,h,i)perylene	NR	µg/L	EPA 625	Naphthalene	<0.5	µg/L	EPA 524.2	17	
Benzo(k)fluoranthene	NR	µg/L	EPA 625	N-Nitrosodiethylamine (NDEA)	<2	ng/L	EPA 521	10	
Bis(2-chloroethoxy)methane	NR	µg/L	EPA 625	N-Nitrosodimethylamine (NDMA)	<2	ng/L	EPA 521	10	
Bis(2-chloroethyl)ether	NR	µg/L	EPA 625	N-Nitrosodi-n-propylamine (NDPA)	<2	ng/L	EPA 521	10	
Bis(2-chloroisopropyl)ether	NR	µg/L	EPA 625	Perfluorobutanesulfonic acid (PFBS)	<2	ng/L	EPA 537.1	500	
4-Bromophenyl phenyl ether	NR	µg/L	EPA 625	Perfluorohexanesulfonic acid (PFHxS)	<2	ng/L	EPA 537.1	3.0	
Butyl benzyl phthalate	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)**	4.5	ng/L	EPA 537.1	5.1	
2-Chloronaphthalene	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2	ng/L	EPA 537.1	6.5	
4-Chlorophenyl phenyl ether	NR	µg/L	EPA 625	Propachlor	<0.5	µg/L	EPA 525.2	90	
Chrysene	NR	µg/L	EPA 625	N-propylbenzene	<0.5	µg/L	EPA 524.2	200	
Dibenzo(a,h)anthracene	NR	µg/L	EPA 625	RDX	<10	µg/L	EPA 524.4	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	<10	µg/L	EPA 8330B	1	
Di-n-butyl phthalate	NR	µg/L	EPA 625	Vanadium	<2	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	0.22	µg/L	EPA 522	0.2	
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	4.3	ng/L	EPA 521	3.4	
Fluoranthene	NR	µg/L	EPA 625	Perfluorooctanesulfonic acid (PFOS)	<2	ng/L	EPA 537.1	7.2	
Fluorene	NR	µg/L	EPA 625	Perfluorooctanoic acid (PFOA)	4.5	ng/L	EPA 537.1	5.8	
Hexachlorobutadiene	NR	µg/L	EPA 625	Gemfibrozil	<4	ng/L	LC-MS-MS	<4	
Hexachlorocyclopentadiene	NR	µg/L	EPA 625	Iohexol	48000	ng/L	LC-MS-MS	<250	
Hexachloroethane	NR	µg/L	EPA 625	Sucralose	94000	ng/L	LC-MS-MS	56000	
Indeno(1,2,3-cd)pyrene	NR	µg/L	EPA 625	Sulfamethoxazole	<4	ng/L	LC-MS-MS	29	
Isophorone	NR	µg/L	EPA 625	ER-α	<0.2	ng/L	Trussell Tech	<0.2	
Naphthalene	NR	µg/L	EPA 625	AhR (method pending approval)	--	ng/L	Trussell Tech	--	
Nitrobenzene	NR	µg/L	EPA 625	Bold & yellow highlight signifies an exceedance of a limit					
N-Nitroso-di-n-propylamine	NR	µg/L	EPA 625	NA: Not available from contract lab at time of reporting					
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, 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

Date	RW Blend*				Banana						Hickory					
	mg/L==>	TOC	TOC-20 wk avg	TOC-4 sample avg	TN	TN - 2 sample avg	TOC (80% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (47% reduction)	TN - 2 sample avg	TOC (81% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (27% reduction)	TN - 2 sample avg
	Limit ==>				10 mg/L (DDW)	16 mg/L (RWQCB)	Jan - Mar 2024 : 1.5; 1.5; 1.5 mg/L			5 mg/L (RWQCB)	5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 3.0; 3.1; 3.1 mg/L			5 mg/L (RWQCB)
12/26/23		5.74			3.8	4.9	1.15			2.0	2.6	1.09			2.7	3.6
01/01/24		5.60	6.17	5.71	4.6	4.2	1.12	1.23	1.14	2.4	2.2	1.06	1.17	1.08	3.3	3.0
01/04/24		-	-	-	4.0	4.3	-	-	-	2.1	2.3	-	-	-	2.9	3.1
01/08/24		5.47	6.13	5.61	4.7	4.4	1.09	1.23	1.12	2.5	2.3	1.04	1.17	1.07	3.5	3.2
01/11/24		-	-	-	4.7	4.7	-	-	-	2.5	2.5	-	-	-	3.5	3.5
01/15/24		6.53	6.15	5.81	5.0	4.9	1.31	1.23	1.16	2.7	2.6	1.24	1.17	1.10	3.7	3.6
01/18/24		-	-	-	4.0	4.5	-	-	-	2.1	2.4	-	-	-	2.9	3.3
01/22/24		5.77	6.11	5.85	5.6	4.8	1.15	1.22	1.17	3.0	2.5	1.10	1.16	1.11	4.1	3.5
01/25/24		-	-	-	4.2	4.9	-	-	-	2.2	2.6	-	-	-	3.0	3.6
01/29/24		5.93	6.08	5.93	5.3	4.7	1.19	1.22	1.19	2.8	2.5	1.13	1.16	1.13	3.8	3.4
02/01/24		-	-	-	4.8	5.0	-	-	-	2.6	2.7	-	-	-	3.5	3.7
02/05/24		5.80	6.03	6.01	5.3	5.1	1.16	1.21	1.20	2.8	2.7	1.10	1.15	1.14	3.9	3.7
02/08/24		-	-	-	5.9	5.6	-	-	-	3.1	3.0	-	-	-	4.3	4.1
02/12/24		6.87	6.02	6.09	4.5	5.2	1.37	1.20	1.22	2.4	2.7	1.31	1.14	1.16	3.3	3.8
02/13/24		7.63	6.09	6.56	4.4	4.4	1.53	1.22	1.31	2.3	2.3	1.45	1.16	1.25	3.2	3.2
02/15/24		-	-	-	4.6	4.5	-	-	-	2.4	2.4	-	-	-	3.4	3.3
02/19/24		6.40	6.11	6.68	4.2	4.4	1.28	1.22	1.34	2.2	2.3	1.22	1.16	1.27	3.0	3.2
02/22/24		-	-	-	4.0	4.1	-	-	-	2.1	2.2	-	-	-	2.9	3.0
02/26/24		6.50	6.10	6.85	4.8	4.4	1.30	1.22	1.37	2.6	2.3	1.24	1.16	1.30	3.5	3.2
02/29/24		-	-	-	5.8	5.3	-	-	-	3.1	2.8	-	-	-	4.2	3.9
03/04/24		6.74	6.13	6.82	6.0	5.9	1.35	1.23	1.36	3.2	3.1	1.28	1.16	1.30	4.4	4.3
03/07/24		-	-	-	5.0	5.5	-	-	-	2.6	2.9	-	-	-	3.6	4.0
03/11/24		7.00	6.17	6.66	4.4	4.7	1.40	1.23	1.33	2.3	2.5	1.33	1.17	1.27	3.2	3.4
03/14/24		-	-	-	5.6	5.0	-	-	-	3.0	2.6	-	-	-	4.1	3.6
03/18/24		7.33	6.23	6.89	4.9	5.3	1.47	1.25	1.38	2.6	2.8	1.39	1.18	1.31	3.6	3.8
03/21/24		-	-	-	4.5	4.7	-	-	-	2.4	2.5	-	-	-	3.3	3.4
03/25/24		7.40	6.29	7.12	5.3	4.9	1.48	1.26	1.42	2.8	2.6	1.41	1.19	1.35	3.9	3.6
03/28/24		-	-	-	5.1	5.2	-	-	-	2.7	2.8	-	-	-	3.7	3.8

*The RW blend of RP-1 & RP-4 effluent is sampled at the RP-4 1299 Pump Station. The TOC & TN values are used for the % reduction calculation of most of the GWR basins with the exception of the Ely Basins, which receives 001B Effluent.

Date	Turner 1 & 2				Turner 3 & 4						RP3					
	mg/L==>	TOC (70% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (87% reduction)	TN - 2 sample avg	TOC (85% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (87% reduction)	TN - 2 sample avg	TOC (88% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (31% reduction)	TN - 2 sample avg
	Limit ==>	16 mg/L (RWQCB)	Jan - Mar 2024 : 2.3; 2.3; 2.3 mg/L		5 mg/L (RWQCB)	5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 2.2; 2.3; 2.3 mg/L			5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 1.9; 1.9; 1.8 mg/L			5 mg/L (RWQCB)
12/26/23		1.72			0.5	0.6	0.86			0.5	0.6	0.69			2.6	3.4
01/01/24		1.68	1.85	1.71	0.6	0.5	0.84	0.93	0.86	0.6	0.5	0.67	0.74	0.68	3.1	2.9
01/04/24		-	-	-	0.5	0.6	-	-	-	0.5	0.6	-	-	-	2.8	3.0
01/08/24		1.64	1.84	1.68	0.6	0.6	0.82	0.92	0.84	0.6	0.6	0.66	0.74	0.67	3.3	3.0
01/11/24		-	-	-	0.6	0.6	-	-	-	0.6	0.6	-	-	-	3.3	3.3
01/15/24		1.96	1.85	1.74	0.7	0.6	0.98	0.92	0.87	0.7	0.6	0.78	0.74	0.70	3.5	3.4
01/18/24		-	-	-	0.5	0.6	-	-	-	0.5	0.6	-	-	-	2.8	3.1
01/22/24		1.73	1.83	1.76	0.7	0.6	0.87	0.92	0.88	0.7	0.6	0.69	0.73	0.70	3.9	3.3
01/25/24		-	-	-	0.5	0.6	-	-	-	0.5	0.6	-	-	-	2.9	3.4
01/29/24		1.78	1.82	1.78	0.7	0.6	0.89	0.91	0.89	0.7	0.6	0.71	0.73	0.71	3.6	3.2
02/01/24		-	-	-	0.6	0.7	-	-	-	0.6	0.7	-	-	-	3.3	3.5
02/05/24		1.74	1.81	1.80	0.7	0.7	0.87	0.90	0.90	0.7	0.7	0.70	0.72	0.72	3.7	3.5
02/08/24		-	-	-	0.8	0.7	-	-	-	0.8	0.7	-	-	-	4.1	3.9
02/12/24		2.06	1.80	1.83	0.6	0.7	1.03	0.90	0.91	0.6	0.7	0.82	0.72	0.73	3.1	3.6
02/13/24		2.29	1.83	1.97	0.6	0.6	1.14	0.91	0.98	0.6	0.6	0.92	0.73	0.79	3.0	3.0
02/15/24		-	-	-	0.6	0.6	-	-	-	0.6	0.6	-	-	-	3.2	3.1
02/19/24		1.92	1.83	2.00	0.5	0.6	0.96	0.92	1.00	0.5	0.6	0.77	0.73	0.80	2.9	3.0
02/22/24		-	-	-	0.5	0.5	-	-	-	0.5	0.5	-	-	-	2.8	2.8
02/26/24		1.95	1.83	2.06	0.6	0.6	0.98	0.92	1.03	0.6	0.6	0.78	0.73	0.82	3.3	3.0
02/29/24		-	-	-	0.8	0.7	-	-	-	0.8	0.7	-	-	-	4.0	3.7
03/04/24		2.02	1.84	2.05	0.8	0.8	1.01	0.92	1.02	0.8	0.8	0.81	0.74	0.82	4.1	4.1
03/07/24		-	-	-	0.6	0.7	-	-	-	0.6	0.7	-	-	-	3.4	3.8
03/11/24		2.10	1.85	2.00	0.6	0.6	1.05	0.93	1.00	0.6	0.6	0.84	0.74	0.80	3.0	3.2
03/14/24		-	-	-	0.7	0.6	-	-	-	0.7	0.6	-	-	-	3.8	3.4
03/18/24		2.20	1.87	2.07	0.6	0.7	1.10	0.93	1.03	0.6	0.7	0.88	0.75	0.83	3.4	3.6
03/21/24		-	-	-	0.6	0.6	-	-	-	0.6	0.6	-	-	-	3.1	3.2
03/25/24		2.22	1.89	2.14	0.7	0.6	1.11	0.94	1.07	0.7	0.6	0.89	0.75	0.85	3.7	3.4
03/28/24		-	-	-	0.7	0.7	-	-	-	0.7	0.7	-	-	-	3.5	3.6

Table 2-5
Alternative Monitoring Plans: TOC & TN

Date	8th Street					Victoria					San Sevaine 1-3				
	mg/L==> TOC (88% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (75% reduction)	TN - 2 sample avg	TOC (78% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (82% reduction)	TN - 2 sample avg	TOC (92% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (34% reduction)	TN - 2 sample avg
Limit ==>	16 mg/L (RWQCB)	Jan - Mar 2024 : 2.3; 2.3; 2.3 mg/L			5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 1.9; 1.9; 1.9 mg/L			5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 3.2; 3.2; 3.2 mg/L			5 mg/L (RWQCB)
12/26/23	0.69			0.9	1.2	1.26			0.7	0.7	0.46			2.5	2.5
01/01/24	0.67	0.74	0.68	1.1	1.0	0.67	0.74	0.68	1.1	0.9	0.45	0.49	0.46	3.0	2.7
01/04/24	-	-	-	1.0	1.1	-	-	-	1.0	1.1	-	-	-	2.6	2.8
01/08/24	0.66	0.74	0.67	1.2	1.1	0.66	0.74	0.67	1.2	1.1	0.44	0.49	0.45	3.1	2.9
01/11/24	-	-	-	1.2	1.2	-	-	-	1.2	1.2	-	-	-	3.1	3.1
01/15/24	0.78	0.74	0.70	1.3	1.2	0.78	0.74	0.70	1.3	1.2	0.52	0.49	0.46	3.3	3.2
01/18/24	-	-	-	1.0	1.1	-	-	-	1.0	1.1	-	-	-	2.6	3.0
01/22/24	0.69	0.73	0.70	1.4	1.2	0.69	0.73	0.70	1.4	1.2	0.46	0.49	0.47	3.7	3.2
01/25/24	-	-	-	1.0	1.2	-	-	-	1.0	1.2	-	-	-	2.7	3.2
01/29/24	0.71	0.73	0.71	1.3	1.2	0.71	0.73	0.71	1.3	1.2	0.47	0.49	0.47	3.5	3.1
02/01/24	-	-	-	1.2	1.3	-	-	-	1.2	1.3	-	-	-	3.2	3.3
02/05/24	0.70	0.72	0.72	1.3	1.3	0.70	0.72	0.72	1.3	1.3	0.46	0.48	0.48	3.5	3.3
02/08/24	-	-	-	1.5	1.4	-	-	-	1.5	1.4	-	-	-	3.9	3.7
02/12/24	0.82	0.72	0.73	1.1	1.3	0.82	0.72	0.73	1.1	1.3	0.55	0.48	0.49	2.9	3.4
02/13/24	0.92	0.73	0.79	1.1	1.1	0.92	0.73	0.79	1.1	1.1	0.61	0.49	0.52	2.9	2.9
02/15/24	-	-	-	1.2	1.1	-	-	-	1.2	1.1	-	-	-	3.0	3.0
02/19/24	0.77	0.73	0.80	1.0	1.1	0.77	0.73	0.80	1.0	1.1	0.51	0.49	0.53	2.7	2.9
02/22/24	-	-	-	1.0	1.0	-	-	-	1.0	1.0	-	-	-	2.6	2.7
02/26/24	0.78	0.73	0.82	1.2	1.1	0.78	0.73	0.82	1.2	1.1	0.52	0.49	0.55	3.2	2.9
02/29/24	-	-	-	1.4	1.3	-	-	-	1.4	1.3	-	-	-	3.8	3.5
03/04/24	0.81	0.74	0.82	1.5	1.5	0.81	0.74	0.82	1.5	1.5	0.54	0.49	0.55	3.9	3.9
03/07/24	-	-	-	1.2	1.4	-	-	-	1.2	1.4	-	-	-	3.3	3.6
03/11/24	0.84	0.74	0.80	1.1	1.2	0.84	0.74	0.80	1.1	1.2	0.56	0.49	0.53	2.9	3.1
03/14/24	-	-	-	1.4	1.2	-	-	-	1.4	1.2	-	-	-	3.7	3.3
03/18/24	0.88	0.75	0.83	1.2	1.3	0.88	0.75	0.83	1.2	1.3	0.59	0.50	0.55	3.3	3.5
03/21/24	-	-	-	1.1	1.2	-	-	-	1.1	1.2	-	-	-	3.0	3.1
03/25/24	0.89	0.75	0.85	1.3	1.2	0.89	0.75	0.85	1.3	1.2	0.59	0.50	0.57	3.5	3.2
03/28/24	-	-	-	1.3	1.3	-	-	-	1.3	1.3	-	-	-	3.4	3.4

Date	Declez					Brooks				
	mg/L==> TOC (62% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (91% reduction)	TN - 2 sample avg	TOC (45% reduction)*	TOC-20 wk avg	TOC-4 sample avg	TN (83% reduction)*	TN - 2 sample avg
Limit ==>	16 mg/L (RWQCB)	Jan - Mar 2024 : 7.6; 7.7; 7.7 mg/L			5 mg/L (RWQCB)	16 mg/L (RWQCB)	Jan - Mar 2024 : 4.0; 4.1; 4.2 mg/L			5 mg/L (RWQCB)
12/26/23	2.18			0.3	0.3	3.16			0.6	0.6
01/01/24	2.13	2.34	2.17	0.4	0.4	3.08	3.39	3.14	0.8	0.7
01/04/24	-	-	-	0.4	0.4	-	-	-	0.7	0.7
01/08/24	2.08	2.33	2.13	0.4	0.4	3.01	3.37	3.09	0.8	0.7
01/11/24	-	-	-	0.4	0.4	-	-	-	0.8	0.8
01/15/24	2.48	2.34	2.21	0.5	0.4	3.59	3.38	3.19	0.9	0.8
01/18/24	-	-	-	0.4	0.4	-	-	-	0.7	0.8
01/22/24	2.19	2.32	2.22	0.5	0.4	3.17	3.36	3.22	1.0	0.8
01/25/24	-	-	-	0.4	0.4	-	-	-	0.7	0.8
01/29/24	2.25	2.31	2.25	0.5	0.4	3.26	3.34	3.26	0.9	0.8
02/01/24	-	-	-	0.4	0.5	-	-	-	0.8	0.9
02/05/24	2.20	2.29	2.28	0.5	0.5	3.19	3.32	3.30	0.9	0.9
02/08/24	-	-	-	0.5	0.5	-	-	-	1.0	1.0
02/12/24	2.61	2.29	2.32	0.4	0.5	3.78	3.31	3.35	0.8	0.9
02/13/24	2.90	2.32	2.49	0.4	0.4	4.20	3.35	3.61	0.7	0.8
02/15/24	-	-	-	0.4	0.4	-	-	-	0.8	0.8
02/19/24	2.43	2.32	2.54	0.4	0.4	3.52	3.36	3.67	0.7	0.7
02/22/24	-	-	-	0.4	0.4	-	-	-	0.7	0.7
02/26/24	2.47	2.32	2.60	0.4	0.4	3.58	3.36	3.77	0.8	0.8
02/29/24	-	-	-	0.5	0.5	-	-	-	1.0	0.9
03/04/24	2.56	2.33	2.59	0.5	0.5	3.71	3.37	3.75	1.0	1.0
03/07/24	-	-	-	0.4	0.5	-	-	-	0.8	0.9
03/11/24	2.66	2.34	2.53	0.4	0.4	3.85	3.39	3.66	0.8	0.8
03/14/24	-	-	-	0.5	0.4	-	-	-	0.9	0.8
03/18/24	2.79	2.37	2.62	0.4	0.5	4.03	3.42	3.79	0.8	0.9
03/21/24	-	-	-	0.4	0.4	-	-	-	0.8	0.8
03/25/24	2.81	2.39	2.70	0.5	0.4	4.07	3.46	3.91	0.9	0.8
03/28/24	-	-	-	0.5	0.5	-	-	-	0.9	0.9

Table 2-5
Alternative Monitoring Plans: TOC & TN

Date	001B Effluent **			Ely 3 East (001B Effluent)**							
	mg/L==>	TOC	TOC-20 wk avg	TOC-4 sample avg	TN	TN - 2 sample avg	TOC (76% reduction)	TOC-20 wk avg	TOC-4 sample avg	TN (52% reduction)	TN - 2 sample avg
Limit ==>					10 mg/L (DDW)	16 mg/L (RWQCB)	Jan - Mar 2024 : 2.5; 2.5; 2.6 mg/L				5 mg/L (RWQCB)
12/29/23	6.67				4.6	4.6	1.60			2.2	2.2
01/01/24	6.40	6.98	6.52	5.4	5.0	1.54	1.67	1.57	2.6	2.4	
01/04/24	7.03	-	-	5.4	5.4	1.69	-	-	2.6	2.6	
01/08/24	6.80	6.97	6.79	5.1	5.2	1.63	1.67	1.63	2.4	2.5	
01/11/24	6.70	-	-	4.8	4.9	1.61	-	-	2.3	2.4	
01/15/24	7.07	6.98	6.89	5.4	5.1	1.70	1.68	1.65	2.6	2.4	
01/18/24	6.73	-	-	5.5	5.5	1.62	-	-	2.6	2.6	
01/22/24	7.20	7.00	6.92	5.6	5.6	1.73	1.68	1.66	2.7	2.7	
01/25/24	6.93	-	-	5.3	5.4	1.66	-	-	2.5	2.6	
01/29/24	7.43	6.99	6.95	5.1	5.2	1.78	1.68	1.67	2.5	2.5	
02/01/24	6.77	-	-	4.8	4.9	1.62	-	-	2.3	2.4	
02/05/24	6.57	6.96	6.79	5.4	5.1	1.58	1.67	1.63	2.6	2.4	
02/08/24	7.10	-	-	4.6	5.0	1.70	-	-	2.2	2.4	
02/12/24	7.27	6.98	7.47	4.5	4.6	1.74	1.67	1.79	2.2	2.2	
02/15/24	7.77	-	-	4.2	4.4	1.86	-	-	2.0	2.1	
02/20/24	8.20	7.00	7.57	5.2	4.7	1.97	1.68	1.82	2.5	2.3	
02/22/24	7.13	-	-	3.6	4.4	1.71	-	-	1.7	2.1	
02/26/24	7.93	7.02	7.71	5.2	4.4	1.90	1.69	1.85	2.5	2.1	
02/29/24	7.80	-	-	4.8	5.0	1.87	-	-	2.3	2.4	
03/04/24	7.53	7.06	7.53	5.7	5.2	1.81	1.70	1.81	2.7	2.5	
03/07/24	7.57	-	-	4.3	5.0	1.82	-	-	2.0	2.4	
03/11/24	7.97	7.11	7.64	4.6	4.4	1.91	1.71	1.83	2.2	2.1	
03/14/24	7.80	-	-	4.3	4.5	1.87	-	-	2.1	2.2	
03/18/24	7.87	7.17	8.08	4.4	4.4	1.89	1.72	1.94	2.1	2.1	
03/21/24	8.13	-	-	4.6	4.5	1.95	-	-	2.2	2.2	
03/25/24	8.37	7.26	8.32	5.8	5.2	2.01	1.74	2.00	2.8	2.5	
03/28/24	8.20	-	-	4.4	5.1	1.97	-	-	2.1	2.5	

** 001B Effluent is RP-1 Recycled water that is delivered to the Ely Basins.

§60320.118(c) Analytical results of the TOC monitoring performed pursuant to subsection (a) shall not exceed 0.5 mg/L divided by the RMA RWC based on: (1) the 20-week running average of all TOC results; and (2) the average of the last four TOC results.

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

Basin	SUP Start Date	SUP End Date	SUP Report Submittal	RWC Limit (120-MRA)	Mos. in Operation (Mar 2024)	Month	RWC _{Avg} (120-MRA)	TOC _{Avg} Limit* (mg/L)	TOC _{Avg} (mg/L)	TN 10 mg/L Limit** Compliance	Recharged Water Monitoring Plan
7 th & 8 th Street	Sep-07	Dec-10	05/23/11	50%	199	Jan-24	22%	2.3	0.7	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 75%
						Feb-24	21%	2.3	0.8		
						Mar-24	21%	2.3	0.9		
Banana	Jul-05	Jan-06	10/27/06	50%	225	Jan-24	34%	1.5	1.2	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 80% and TN reduction of 47%
						Feb-24	34%	1.5	1.3		
						Mar-24	34%	1.5	1.4		
Brooks	Aug-08	Dec-09	07/29/10	50%	188	Jan-24	12%	4.0	3.2	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 45% and TN reduction of 83%. These are the lowest reduction factors from the SUP report.
						Feb-24	12%	4.1	3.7		
						Mar-24	12%	4.2	3.9		
Declez	Dec-15	Sep-16	05/21/18	initial 20%	100	Jan-24	7%	7.6	2.2	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 62% and TN reduction of 91%
						Feb-24	7%	7.7	2.5		
						Mar-24	6%	7.7	2.7		
Ely***	RW initiated Sep-99	NA	NA	50%	295	Jan-24	20%	2.5	1.7	Met	Alternative monitoring: <u>Weekly</u> RP-1 RW sample with TOC reduction of 76% and TN reduction of 52%
						Feb-24	20%	2.5	1.8		
						Mar-24	19%	2.6	1.9		
Hickory	Sep-05	Feb-06	02/15/07	50%	223	Jan-24	16%	3.0	1.1	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 81% and TN reduction of 27%
						Feb-24	16%	3.1	1.3		
						Mar-24	16%	3.1	1.4		
RP3	Jun-09	Jun-10	12/15/10	50%	178	Jan-24	27%	1.9	0.7	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 88% and TN reduction of 31%
						Feb-24	27%	1.9	0.8		
						Mar-24	27%	1.8	0.9		
San Sevaine 1-3	Aug-20	Sep-21	02/08/22	50%	44	Jan-24	16%	3.2	0.5	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 92% and TN reduction of 34%
						Feb-24	16%	3.2	0.5		
						Mar-24	16%	3.2	0.6		
Turner 1&2	Dec-06	May-07	07/03/08	24%	208	Jan-24	22%	2.3	1.8	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 70%; TN reduction of 87%
						Feb-24	22%	2.3	2.0		
						Mar-24	22%	2.3	2.1		
Turner 3&4	Dec-06	May-07	07/03/08	45%	208	Jan-24	22%	2.2	0.9	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 85% ; TN reduction of 87%
						Feb-24	22%	2.3	1.0		
						Mar-24	22%	2.3	1.1		
Victoria	Sep-10	Jul-11	02/08/12	50%	163	Jan-24	26%	1.9	0.7	Met	Alternative monitoring: <u>Weekly</u> RW Blend with TOC reduction of 78% and TN reduction of 82%
						Feb-24	26%	1.9	0.8		
						Mar-24	26%	1.9	0.9		

SUP - Start-Up Period

120-MRA - The recycled water contribution (RWC) limit and the RWC avg are based on 120-month running average

*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 bolded.

**TN limit is 10 mg/L based on a two-sample average of the RW Blend and 001B Effluent.

***Ely Basin receives 001B Effluent, which is RP-1 effluent only. All other basins receive RW Blend, which is a blend of RP-1 & RP-4 recycled water.

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

Constituent	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Max Level to Trigger Source Water Evaluation	Unit	Method
	Cucamonga Creek @ Turner 1&2 01/03/24	Day Creek @ Lower Day 01/22/24	Deer Creek @ Turner 3&4 01/03/24	San Antonio Creek @ Montclair 01/22/24	West Cucamonga Creek @ Ely 01/22/24			
NO ₂ -N	<0.05	<0.05	<0.05	<0.05	0.09	1	mg/L	EPA 300.0
NO ₃ -N	0.9	0.4	0.9	0.3	0.5	10	mg/L	EPA 300.0
TDS	88	96	56	62	40	1000	mg/L	SM 2540C
Total Coliform	16000	>16000	>16000	>16000	>16000	-	mpn/100ml	SM 9221B
Oil & Grease	2.0	4.7	18.4	6.2	5.6	-	mg/L	EPA 1664A
Inorganic Chemicals								
Aluminum	4620	452	3178	4964	613	1000	µg/L	EPA 200.7
Antimony	2	<1	<1	1	<1	6	µg/L	EPA 200.8
Arsenic	<2	<2	<2	3	<2	10	µg/L	EPA 200.8
Asbestos	<1.0	<1.0	<5.0	<5.1	<1.0	7	MFL	EPA 100.2
Barium	24	16	39	67	15	1000	µg/L	EPA 200.7
Beryllium	<0.5	<0.5	<0.5	<0.5	<0.5	4	µg/L	EPA 200.7
Cadmium	<0.25	<0.25	<0.25	<0.25	<0.25	5	µg/L	EPA 200.7
Chromium	2.6	<0.5	6.8	7.7	<0.5	50	µg/L	EPA 200.7
Chromium VI	0.30	0.42	0.33	0.41	0.48	10	µg/L	EPA 218.6
Cyanide	<20	<20	<20	<20	<20	150	µg/L	ASTM D7284/OIA-1677
Fluoride	<0.1	<0.1	0.1	0.1	0.1	2	mg/L	SM 4500-F C
Mercury	<0.5	<0.5	<0.5	<0.5	<0.5	2	µg/L	EPA 245.2
Nickel	2	1	4	5	1	100	µg/L	EPA 200.7
Perchlorate	<2	<2	<2	<2	<2	6	µg/L	EPA 314
Selenium	<2	<2	<2	<2	<2	50	µg/L	EPA 200.8
Thallium	<1	<1	<1	<1	<1	2	µg/L	EPA 200.8
Volatile Organic Chemicals (VOCs)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 524.2
Carbon Tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	600	µg/L	EPA 524.2
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
cis-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	6	µg/L	EPA 524.2
trans-1,2-Dichloroethylene	<0.5	<0.5	<0.5	<0.5	<0.5	10	µg/L	EPA 524.2
Dichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	5	µg/L	EPA 524.2
1,3-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	µg/L	EPA 524.2
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	300	µg/L	EPA 524.2
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	70	µg/L	EPA 524.2
Methyl Tert-butyl ether (MTBE)	<0.5	<0.5	<0.5	<0.5	<0.5	13	µg/L	EPA 524.2
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	100	µg/L	EPA 524.2
1,1,2,2-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
Total Xylenes	<0.5	<0.5	<0.5	<0.5	<0.5	1750	µg/L	EPA 524.2
1,2,3-Trichloropropane	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	µg/L	CASRL 524M-TCP
Non-Volatile Synthetic Organic Chemicals (SOCs)								
Alachlor (Alanex)	<10	<4	<1	<10	<10	2	µg/L	EPA 505/508.1
Atrazine	<0.5	<0.5	<0.5	<0.5	<0.5	1	µg/L	EPA 525.2
Bentazon	<2	<2	<2	<2	<2	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	<2	<2	<2	<2	<2	18	µg/L	EPA 531.2
Chlordane	<5.0	<2.0	<0.5	<5.0	<5.0	0.1	µg/L	EPA 505/508.1
2,4-D	<0.4	<0.4	<0.4	<0.4	<0.4	70	µg/L	EPA 515.4
Dalapon	<0.4	<0.4	<0.4	<0.4	<0.4	200	µg/L	EPA 515.4
Dibromochloropropane	<0.01	<0.01	<0.01	<0.01	<0.01	0.2	µg/L	EPA 504.1/EPA 524.3
Di(2-ethylhexyl)adipate	<0.5	<0.5	0.5	<0.5	<0.5	400	µg/L	EPA 525.2
Di(2-ethylhexyl)phthalate	1.0	0.6	<0.5	0.6	1.4	4	µg/L	EPA 525.2
Dinoseb	<0.4	<0.4	<0.4	<0.4	<0.4	7	µg/L	EPA 515.4
Diquat	<4	<4	<4	<4	<4	20	µg/L	EPA 549.2
Endothall	<45	<45	<45	<45	<45	100	µg/L	EPA 548.1
Endrin	<0.5	<0.2	<0.05	<0.5	<0.5	2	µg/L	EPA 505/508.1
Ethylene Dibromide	<0.02	<0.02	<0.02	<0.02	<0.02	0.05	µg/L	EPA 504.1
Glyphosate	<5	<5	<5	<5	<5	700	µg/L	EPA 547
Heptachlor	<0.5	<0.2	<0.05	<0.5	<0.5	0.01	µg/L	EPA 505/508.1
Heptachlor Epoxide	<0.5	<0.2	<0.05	<0.5	<0.5	0.01	µg/L	EPA 505/508.1
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	<0.5	<0.2	<0.05	<0.5	<0.5	0.2	µg/L	EPA 505/508.1
Methoxychlor	<0.5	<0.2	<0.05	<0.5	<0.5	30	µg/L	EPA 505/508.1
Molinate	<0.5	<0.5	<0.5	<0.5	<0.5	20	µg/L	EPA 525.2

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

Constituent	Stormwater	Stormwater	Stormwater	Stormwater	Stormwater	Max Level to Trigger Source Water Evaluation	Unit	Method
	Cucamonga Creek @ Turner 1&2 01/03/24	Day Creek @ Lower Day 01/22/24	Deer Creek @ Turner 3&4 01/03/24	San Antonio Creek @ Montclair 01/22/24	West Cucamonga Creek @ Ely 01/22/24			
Oxamyl	<2	<2	<2	<2	<2	50	µg/L	EPA 531.2
Pentachlorophenol	<0.2	<0.2	<0.2	<0.2	<0.2	1	µg/L	EPA 515.4
Picloram	<0.6	<0.6	<0.6	<0.6	<0.6	500	µg/L	EPA 515.4
PCB 1016	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1221	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1232	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1242	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1248	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1254	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
PCB 1260	<5	<2	<0.5	<5	<5	0.5	µg/L	EPA 505/508.1
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	<50	<20	<5	<50	<50	3	µg/L	EPA 505/508.1
2,3,7,8-TCDD (Dioxin)	<5	<5	<5	<25	<5	30	pg/L	EPA 1613
2,4,5-TP (Silvex)	<0.2	<0.2	<0.2	<0.2	<0.2	50	µg/L	EPA 515.4
Disinfection Byproducts								
Total Trihalomethanes (TTHMs)	<2	<2	<2	<2	<2	80	µg/L	EPA 524.2/624
Total Haloacetic Acids (HAA5)	<2	8	4	<2	<2	60	µg/L	SM 6251B/EPA 552.3
Bromate	<0.005	0.009	<0.005	<0.005	<0.005	10	µg/L	EPA 300.1/317
Chlorite	<0.01	<0.01	<0.01	<0.01	<0.01	1	mg/L	EPA 300.0
Action Level Chemicals								
Copper	7.2	5.1	8.0	14	6.4	1300	µg/L	EPA 200.8
Lead	1.4	0.6	1.6	4.2	3.2	15	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 & Radium 228	<3	<3	<3	<3	<3	5	pCi/L	EPA 903.0
Gross Alpha Particle Activity	1.47	0.48	2.15	0.97	0.50	15	pCi/L	EPA 900.0/SM7110C
Tritium	<300	<300	<300	<300	<300	20,000	pCi/L	EPA 906.0
Strontium-90	<3	<3	<3	<3	<3	8	pCi/L	EPA 905.0
Gross Beta Particle Activity	4.2	1.7	6.8	3.5	2.3	50	pCi/L	EPA 900.0
Uranium	1	<1	<1	<1	<1	20	pCi/L	EPA 200.8
Chemicals w/ State Notification Levels								
Boron	<0.1	<0.1	<0.1	<0.1	<0.1	1	mg/L	EPA 200.7
n-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
sec-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
tert-butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	260	µg/L	EPA 524.2
Carbon disulfide	<0.5	<0.5	<0.5	<0.5	<0.5	160	µg/L	EPA 524.2
Chlorate	0.12	0.34	0.12	<0.01	<0.01	800	µg/L	EPA 300.0
2-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	140	µg/L	EPA 524.2
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	140	µg/L	EPA 524.2
Diazinon	<0.5	<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	<0.5	1000	µg/L	EPA 524.2
1,4 - Dioxane	<0.07	<0.07	<0.07	<0.07	<0.07	1	µg/L	EPA 522
Ethylene glycol	<10	<10	<10	<10	<10	14	mg/L	EPA 8015B/504.1
Formaldehyde	17	8	16	9	20	100	µg/L	EPA 556
HMX	<2	<10	<10	<10	<10	350	µg/L	EPA 8330B
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	770	µg/L	EPA 524.2
Manganese	25	10	47	137	16	500	µg/L	EPA 200.8
Methyl isobutyl ketone (MIBK)	<2	<2	<2	<2	<2	120	µg/L	EPA 524.2
Naphthalene	<0.5	<0.5	<0.5	<0.5	<0.5	17	µg/L	EPA 524.2
N-Nitrosodiethylamine (NDEA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-nitrosodimethylamine (NDMA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
N-Nitrosodi-n-propylamine (NDPA)	<2	<2	<2	<2	<2	10	ng/L	EPA 521
PFOS	4.5	<2	7.3	<2	<2	6.5	ng/L	EPA 537.1
PFOA	6.7	4.7	9.5	3.9	<2	5.1	ng/L	EPA 537.1
Propachlor	<0.5	<0.5	<0.5	<0.5	<0.5	90	µg/L	EPA 525.2
N-propylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	200	µg/L	EPA 524.2
RDX	<20	<10	<100	<10	<10	0.3	µg/L	EPA 8330B
Tertiary butyl alcohol	<2	<2	<2	<2	<2	12	µg/L	EPA 524.2
1,2,4 -trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	330	µg/L	EPA 524.2
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	330	µg/L	EPA 524.2
2,4,6-Trinitrotoluene	<2	<10	<10	<10	<10	1	µg/L	EPA 8330B
Vanadium	5	<5	21	13	<5	50	µg/L	EPA 200.8

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

NA: Not available at time of reporting

Bold & yellow highlight signifies an exceedance of the maximum level to trigger a source water evaluation.

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

Constituent	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Unit	
Silica	12.0	11.5	Not Yet Available										mg/L	
Calcium	21	20												mg/L
Magnesium	11	10												mg/L
Sodium	43	42												mg/L
Potassium	3.0	2.8												mg/L
Carbonate	0	0												mg/L
Bicarbonate	92	87												mg/L
Sulfate	34	29												mg/L
Chloride	58	54												mg/L
Nitrate	3.1	2.7												mg/L
Fluoride	<0.1	<0.1												mg/L
Total Dissolved Solids	231	216												mg/L
Total Hardness as CaCO ₃	97	91												mg/L
Total Alkalinity as CaCO ₃	75	71												mg/L
Free Carbon Dioxide	1.9	2.3												mg/L
pH	7.90	7.80												unit
Specific Conductance	407	382												µmho/cm
Color	10	--												CU
Turbidity	0.61	6.2												NTU
Temperature	11	9												°C
Bromide	0.17	0.17											mg/L	
Total Organic Carbon	3.64	4.34											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 - T-1/2	50 downgradient	380-400	4	Active	Monitoring
	601000	Inland Empire Utilities Agency - T-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-1/1	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 Seavine 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	--	Inland Empire Utilities Agency - Ely-3	100 downgradient	246-306	4	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)
- **** = Inland Empire Utilities Agency Ely-3 replaced Ely Basin MW-1, f

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)	Thiobencarb (µg/L)	Turbidity (NTU)	Zn (µg/L)	TDS (mg/L)	Cl (mg/L)	Hardness (mg CaCO ₃ /L)	Na (mg/L)	SO ₄ (mg/L)	Nitrogen, Total (mg/L)	NO ₂ -N (mg/L)	NO ₃ -N (mg/L)	Dissolved Oxygen (mg/L)
Banana & Hickory	Fontana Water Co. - F7a	01/17/24	<0.10	<1.1	7.5	380	<20	5	<3	0.0	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	286	10	175	17	12	4.8	<0.05	4.8	9.4
	California Speedway 2	02/27/24	<0.10	88	7.9	397	<20	<3	<3	0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	244	14	171	19	13	5.6	<0.05	5.6	4.3
	BH-1/2	01/30/24	<0.10	<1.1	7.8	594	<20	5	<3	0.3	<0.1	<15	<2	<0.5	2	<0.5	<0.2	0.4	<20	344	84	228	24	34	1.8	<0.05	1.8	5.1
Turner	Ontario Well No. 29	01/24/24	<0.10	<1.1	7.7	343	<20	<3	<3	0.0	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.4	<20	212	7	133	23	10	1.7	<0.05	1.7	5.4
	Ontario Well No. 38	01/24/24	<0.10	<1.1	7.7	319	<20	<3	<3	0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	210	6	129	20	6	1.8	<0.05	1.8	5.2
	T-1/2	01/29/24	<0.10	<1.1	7.6	330	<20	5	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.5	<20	226	12	90	40	8	<0.6	<0.05	<0.1	2.1
	T-2/2	01/29/24	0.50	<1.1	7.7	436	<20	5	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.3	<20	282	39	114	44	23	1.5	<0.05	1.5	2.1
RP3	Alcoa MW1	02/15/24	0.40	46	7.8	1071	<20	5	<3	0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.6	<20	646	227	384	31	34	6.7	<0.05	6.7	4.6
	Alcoa MW3	02/21/24	<0.10	<1.1	7.1	1064	<20	<3	<3	0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	682	149	399	33	57	15.4	<0.05	15.4	3.9
	Fontana Water Co. - F23a	01/17/24	<0.10	<1.1	7.4	359	<20	5	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	250	11	156	20	16	4.7	<0.05	4.7	9.0
	Southridge JHS	03/12/24	0.30	<1.1	7.2	904	<20	<3	<3	0.0	<0.1	<15	2	<0.5	<1	<0.5	<0.2	0.6	<20	566	79	335	55	71	15.5	<0.05	15.5	3.4
	RP3-1/1	02/12/24	0.97	<1.1	7.1	741	<20	5	<3	-0.4	<0.1	<15	15	<0.5	<1	<0.5	<0.2	1.2	<20	434	111	146	87	45	2.4	<0.05	2.4	1.0
7th & 8th Street	Ontario Well No. 35	01/24/24	<0.10	<1.1	7.6	344	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	232	7	132	23	17	3.1	<0.05	3.1	4.4
	8TH-1/1	01/31/24	<0.10	2	7.5	377	<20	20	<3	-0.1	<0.1	<15	<2	<0.5	<1	1.89	<0.2	11.0	<20	220	16	154	17	23	<0.6	<0.05	0.5	2.2
	8TH-1/2	01/31/24	<0.10	<1.1	7.4	512	<20	15	<3	-0.2	<0.1	<15	29	<0.5	<1	<0.5	<0.2	11.5	<20	300	66	219	17	27	1.0	<0.05	1.0	2.8
	8TH-2/1	02/08/24	<0.10	<1.1	7.8	550	<20	5	<3	0.3	<0.1	<15	3	<0.5	<1	<0.5	<0.2	0.6	<20	350	25	233	16	21	15.5	<0.05	15.5	4.7
	8TH-2/2	02/08/24	<0.10	<1.1	7.4	457	<20	15	<3	-0.2	<0.1	<15	6	<0.5	<1	<0.5	<0.2	10.0	<20	294	49	188	15	25	2.5	<0.05	2.5	5.2
Brooks	Pomona Well No. 10	02/27/24	<0.10	<1.1	7.9	549	<20	<3	<3	0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	318	49	238	13	39	7.4	<0.05	7.4	5.2
	BRK-1/1	02/14/24	0.67	<1.1	8.1	638	<20	5	<3	0.7	<0.1	<15	17	<0.5	<1	<0.5	<0.2	3.3	<20	374	80	207	41	28	<0.6	<0.05	0.5	4.0
	BRK-1/2	02/14/24	<0.10	<1.1	7.8	670	<20	<3	<3	0.6	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.3	<20	392	28	289	13	49	22.2	<0.05	22.2	5.7
	BRK-2/1	02/26/24	<0.10	<1.1	7.5	570	<20	<3	<3	0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	2.8	<20	386	62	264	11	43	6.8	<0.05	6.8	3.1
	BRK-2/2	02/26/24	<0.10	14	8.3	357	<20	5	<3	0.6	<0.1	<15	2	<0.5	<1	<0.5	<0.2	0.4	<20	228	8	120	30	27	7.6	<0.05	7.6	2.2
Ely	Ely Basin MW2 Walnut St.	03/07/24	<0.10	<1.1	7.4	649	<20	<3	<3	0.1	<0.1	<15	9	<0.5	<1	<0.5	<0.2	0.2	<20	360	57	257	34	32	8.4	<0.05	8.4	1.8
	ELY-3	03/07/24	0.63	<1.1	7.3	239	<20	5	<3	-1.0	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.9	<20	128	14	45	38	11	<0.6	<0.05	0.2	1.2
	Riverside Well (43840-CWW)	01/24/24	<0.10	<1.1	7.4	578	<20	<3	<3	0.0	<0.1	<15	3	<0.5	<1	<0.5	<0.2	<0.1	33	360	31	250	21	28	9.0	<0.05	9.0	5.4
	Bishop of SB Corp. - DOM	01/25/24	<0.10	<1.1	7.5	864	<20	5	<3	0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	23	544	40	387	24	62	20.7	<0.05	20.7	5.0
Victoria & San Sevaine	SS-1/1	03/04/24	<0.10	<1.1	7.2	399	<20	<3	<3	-0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	2.3	<20	246	44	162	19	26	2.6	<0.05	2.6	4.5
	SSV-2	03/04/24	0.56	<1.1	7.6	362	<20	5	<3	-0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	10.2	<20	224	51	111	30	28	<0.6	<0.05	0.5	2.3
	VCT-1/1	03/06/24	0.45	<1.1	7.0	631	<20	5	<3	-0.4	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.7	<20	358	95	244	25	43	2.1	<0.05	2.1	2.4
	VCT-2/2	03/06/24	<0.10	35	7.7	309	<20	5	<3	0.0	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	1.3	<20	184	14	127	17	14	3.2	<0.05	3.2	4.2
	CVWD Well No. 43	01/25/24	<0.10	<1.1	7.2	348	<20	<3	<3	-0.5	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	250	12	141	19	13	3.5	<0.05	3.5	5.0
	Unitex 91090	01/17/24	<0.10	11	7.4	461	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.5	<20	302	43	194	23	26	1.6	<0.05	1.6	8.1
Declez	JCSD Well No. 13	01/18/24	<0.10	<1.1	7.6	557	<20	5	4.1	0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	0.1	<20	374	64	230	31	22	4.4	<0.05	4.4	3.9
	JCSD Well No. 17	01/18/24	<0.10	<1.1	7.8	495	<20	5	<3	-0.2	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	332	39	202	30	31	7.5	<0.05	7.5	3.5
	JCSD Well No. 19	01/18/24	<0.10	<1.1	7.6	345	<20	<3	<3	-0.1	<0.1	<15	<2	<0.5	<1	<0.5	<0.2	<0.1	<20	246	10	134	28	12	3.5	<0.05	3.5	5.2
	DCZ-2	03/12/24	<0.10	<1.1	7.8	583	<20	<3	<3	0.3	<0.1	<15	<2	<0.5	2	<0.5	<0.2	0.3	166	364	66	198	37	41	7.8	<0.05	7.8	4.5
	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.

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

Date	Diluent Water																				Recycled Water									
	Imported Water										Local Runoff / Storm Flow																			
	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria	7th & 8th St.	Banana	Brooks	Declez	Ely	Hickory	RP3	San Sevaïne	Turner	Victoria
Apr-23	0	0	0	0	0	0	0	89	0	10	0	4	9	3	0	42	248	11	94	91	0	58	0	0	0	534	51	0	124	
May-23	0	0	0	0	0	0	82	858	71	9	129	23	39	78	100	0	6	52	18	34	103	0	72	91	0	0	817	8	0	223
Jun-23	0	0	0	0	0	0	131	1013	31	0	139	0	2	8	1	0	3	0	8	0	156	30	116	188	0	0	689	95	0	281
2Q23 Total	0	0	0	0	0	0	131	1047	31	0	230	23	40	96	105	0	51	300	36	128	350	30	245	279	0	0	2040	154	0	629
Jul-23	0	0	0	0	0	0	184	887	107	0	136	0	1	3	1	0	0	0	20	1	86	366	46	54	0	0	713	56	0	242
Aug-23	0	0	0	0	0	43	176	1039	65	0	283	60	58	126	437	45	56	233	86	119	8	230	0	8	0	0	798	202	0	85
Sep-23	13	0	0	0	0	334	0	1222	101	0	66	4	5	13	62	69	0	28	82	11	61	134	108	120	0	0	876	273	0	139
3Q23 Total	13	0	0	0	0	378	360	3148	273	0	484	63	63	142	500	115	56	261	187	131	154	730	154	182	0	0	2387	530	0	467
Oct-23	0	0	0	0	0	268	0	1107	105	0	37	0	2	13	2	22	0	21	63	12	76	150	131	145	0	0	842	344	0	254
Nov-23	0	0	0	0	0	234	0	1104	101	0	72	21	2	59	64	30	0	41	118	18	126	105	51	79	0	0	497	143	0	150
Dec-23	114	0	0	0	0	147	0	623	20	90	114	40	33	136	112	34	16	152	150	47	38	48	82	10	0	0	846	20	0	35
4Q23 Total	114	0	0	0	0	649	0	2834	226	90	223	62	37	208	178	86	16	213	331	78	241	304	264	233	0	0	2184	507	0	438
Jan-24	0	0	0	0	0	0	0	74	0	0	159	42	79	149	259	48	130	141	140	92	22	0	35	0	0	52	385	155	55	30
Feb-24	0	0	0	0	0	0	0	0	0	0	226	73	272	178	527	128	383	787	359	213	0	0	0	0	0	0	52	113	55	12
Mar-24	0	0	0	0	0	0	0	0	0	0	174	72	141	191	457	129	226	509	272	224	23	273	0	18	0	64	106	128	38	19
1Q24 Total	0	0	0	0	0	0	0	74	0	0	559	187	491	518	1243	305	739	1437	770	529	45	273	35	18	0	117	543	396	149	61

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)
2Q23	Apr-23	0.0	0.7	180	7	13.0	400	(2,447)	(43,526)	(1,197,943)
	May-23	0.0	0.7	180	24	13.0	400	(2,471)	(43,908)	(1,209,717)
	Jun-23	0.0	0.7	180	34	13.0	400	(2,505)	(44,460)	(1,226,682)
3Q23	Jul-23	0.0	0.3	150	14	13.0	400	(2,518)	(44,677)	(1,233,353)
	Aug-23	0.0	0.3	150	1	13.0	400	(2,519)	(44,690)	(1,233,748)
	Sep-23	0.0	0.3	150	0	13.0	400	(2,520)	(44,697)	(1,233,970)
4Q23	Oct-23	0.0	0.4	170	0	13.0	400	(2,520)	(44,699)	(1,234,034)
	Nov-23	0.0	0.4	170	0	13.0	400	(2,520)	(44,701)	(1,234,108)
	Dec-23	0.0	0.4	170	0	13.0	400	(2,520)	(44,704)	(1,234,197)
1Q24	Jan-24	0.0	0.7	230	0	13.0	400	(2,520)	(44,707)	(1,234,291)
	Feb-24	0.0	0.7	230	0	13.0	400	(2,521)	(44,711)	(1,234,404)
	Mar-24	0.0	0.7	230	0	13.0	400	(2,521)	(44,714)	(1,234,513)

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)
2Q23	Apr-23	0.0	0.7	180	5	12.0	250	(90)	(53,091)	(541,566)
	May-23	0.0	0.7	180	177	12.0	250	(267)	(55,706)	(596,035)
	Jun-23	0.0	0.7	180	81	12.0	250	(347)	(56,900)	(620,920)
3Q23	Jul-23	0.0	0.3	150	63	12.0	250	(410)	(57,832)	(640,341)
	Aug-23	0.0	0.3	150	16	12.0	250	(426)	(58,068)	(645,260)
	Sep-23	0.0	0.3	150	0	12.0	250	(426)	(58,068)	(645,260)
4Q23	Oct-23	0.0	0.4	170	0	12.0	250	(426)	(58,068)	(645,260)
	Nov-23	0.0	0.4	170	0	12.0	250	(426)	(58,068)	(645,260)
	Dec-23	0.0	0.4	170	0	12.0	250	(426)	(58,068)	(645,260)
1Q24	Jan-24	0.0	0.7	230	135	12.0	250	(562)	(60,074)	(687,037)
	Feb-24	0.0	0.7	230	0	12.0	250	(562)	(60,074)	(687,037)
	Mar-24	0.0	0.7	230	0	12.0	250	(562)	(60,074)	(687,037)

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)
2Q23	Apr-23	0.0	0.7	180	90	12.0	330	(3,299)	(48,587)	(806,848)
	May-23	54.0	0.7	180	12	12.0	330	(3,256)	(48,711)	(799,632)
	Jun-23	87.6	0.7	180	0	12.0	330	(3,169)	(48,631)	(780,169)
3Q23	Jul-23	93.1	0.3	150	0	12.0	330	(3,076)	(48,595)	(762,952)
	Aug-23	121.0	0.3	150	0	12.0	330	(2,955)	(48,547)	(740,563)
	Sep-23	124.5	0.3	150	0	12.0	330	(2,830)	(48,498)	(717,525)
4Q23	Oct-23	124.0	0.4	170	0	12.0	330	(2,706)	(48,437)	(691,520)
	Nov-23	77.2	0.4	170	0	12.0	330	(2,629)	(48,398)	(675,323)
	Dec-23	60.5	0.4	170	0	12.0	330	(2,568)	(48,369)	(662,633)
1Q24	Jan-24	0.0	0.7	230	0	12.0	330	(2,568)	(48,369)	(662,633)
	Feb-24	0.0	0.7	230	0	12.0	330	(2,568)	(48,369)	(662,633)
	Mar-24	0.0	0.7	230	0	12.0	330	(2,568)	(48,369)	(662,633)

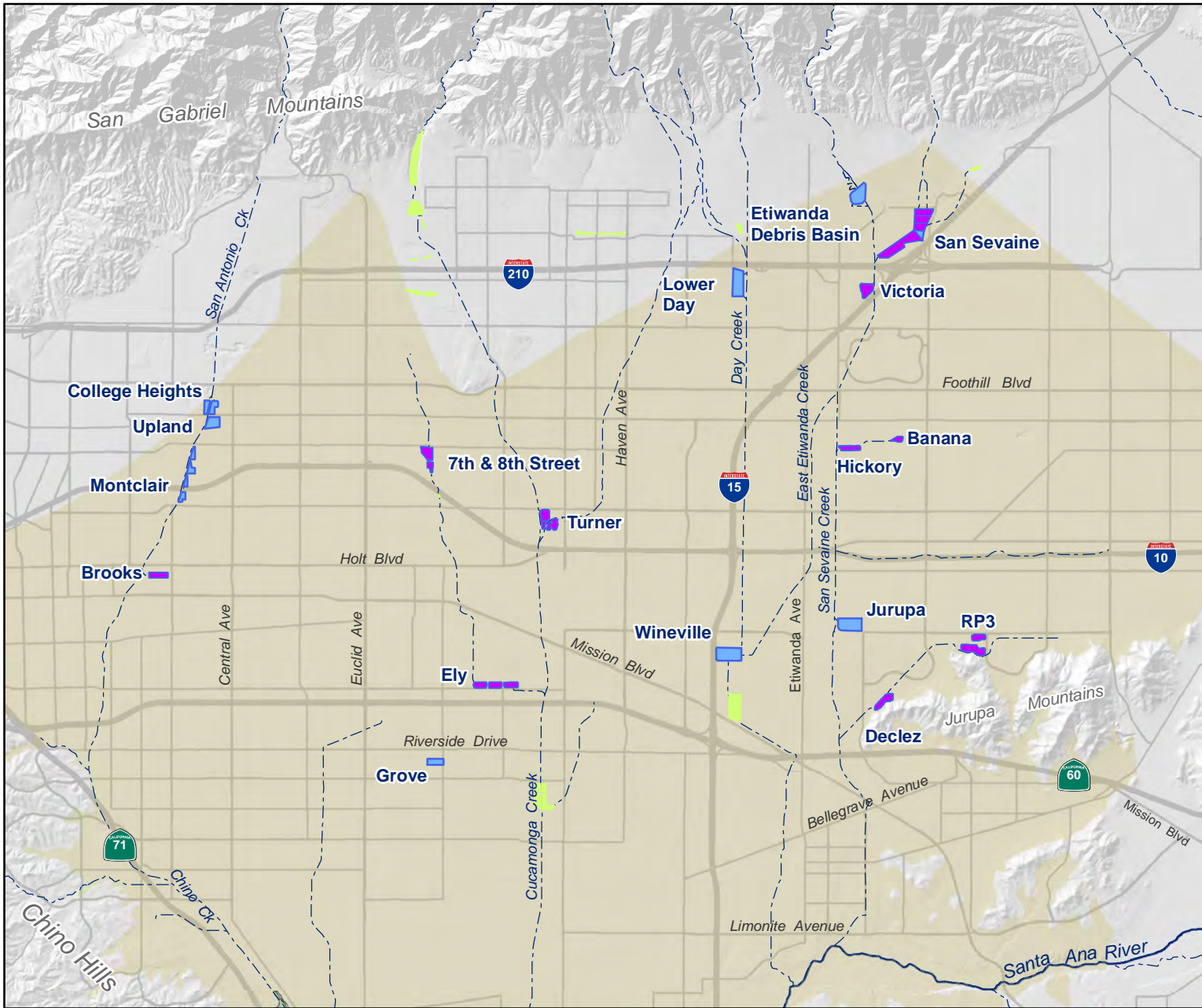
The injected water is WFA-treated water, which meets CCR Title 22 drinking water
 Cells shaded in grey reflect most recent lab values.

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)
2Q23	Apr-23	0.0	0.7	180	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	May-23	0.0	0.7	180	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Jun-23	0.0	0.7	180	0	12.0	320	(2,061)	(79,681)	(1,153,705)
3Q23	Jul-23	0.0	0.3	150	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Aug-23	0.0	0.3	150	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Sep-23	0.0	0.3	150	0	12.0	320	(2,061)	(79,681)	(1,153,705)
4Q23	Oct-23	0.0	0.4	170	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Nov-23	0.0	0.4	170	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Dec-23	0.0	0.4	170	0	12.0	320	(2,061)	(79,681)	(1,153,705)
1Q24	Jan-24	0.0	0.7	230	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Feb-24	0.0	0.7	230	0	12.0	320	(2,061)	(79,681)	(1,153,705)
	Mar-24	0.0	0.7	230	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
 Cells shaded in grey reflect most recent lab values.

Total Project (All Wells)						
	Date			Mass Balance		
				Storage (AF)	TIN (kg)	TDS (kg)
2Q23	Apr-23			(7,897)	(224,885)	(3,700,062)
	May-23			(8,055)	(228,006)	(3,759,088)
	Jun-23			(8,082)	(229,672)	(3,781,476)
3Q23	Jul-23			(8,066)	(230,785)	(3,790,352)
	Aug-23			(7,962)	(230,986)	(3,773,277)
	Sep-23			(7,838)	(230,944)	(3,750,461)
4Q23	Oct-23			(7,714)	(230,885)	(3,724,520)
	Nov-23			(7,637)	(230,849)	(3,708,397)
	Dec-23			(7,576)	(230,822)	(3,695,796)
1Q24	Jan-24			(7,712)	(232,830)	(3,737,667)
	Feb-24			(7,712)	(232,834)	(3,737,780)
	Mar-24			(7,712)	(232,838)	(3,737,889)



- Recharge Basins in the Recycled Water Groundwater Recharge Program
- Recharge Basins in the Recycled Water Groundwater Recharge Program (Active Recycled Water Recharge)
- Non-Program Basins
- Chino Groundwater Basin
- Rivers and Streams



Chino Basin Recycled Water Groundwater Recharge Program

Basin Locations

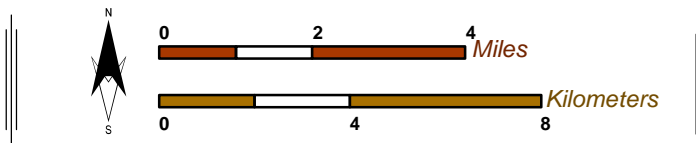
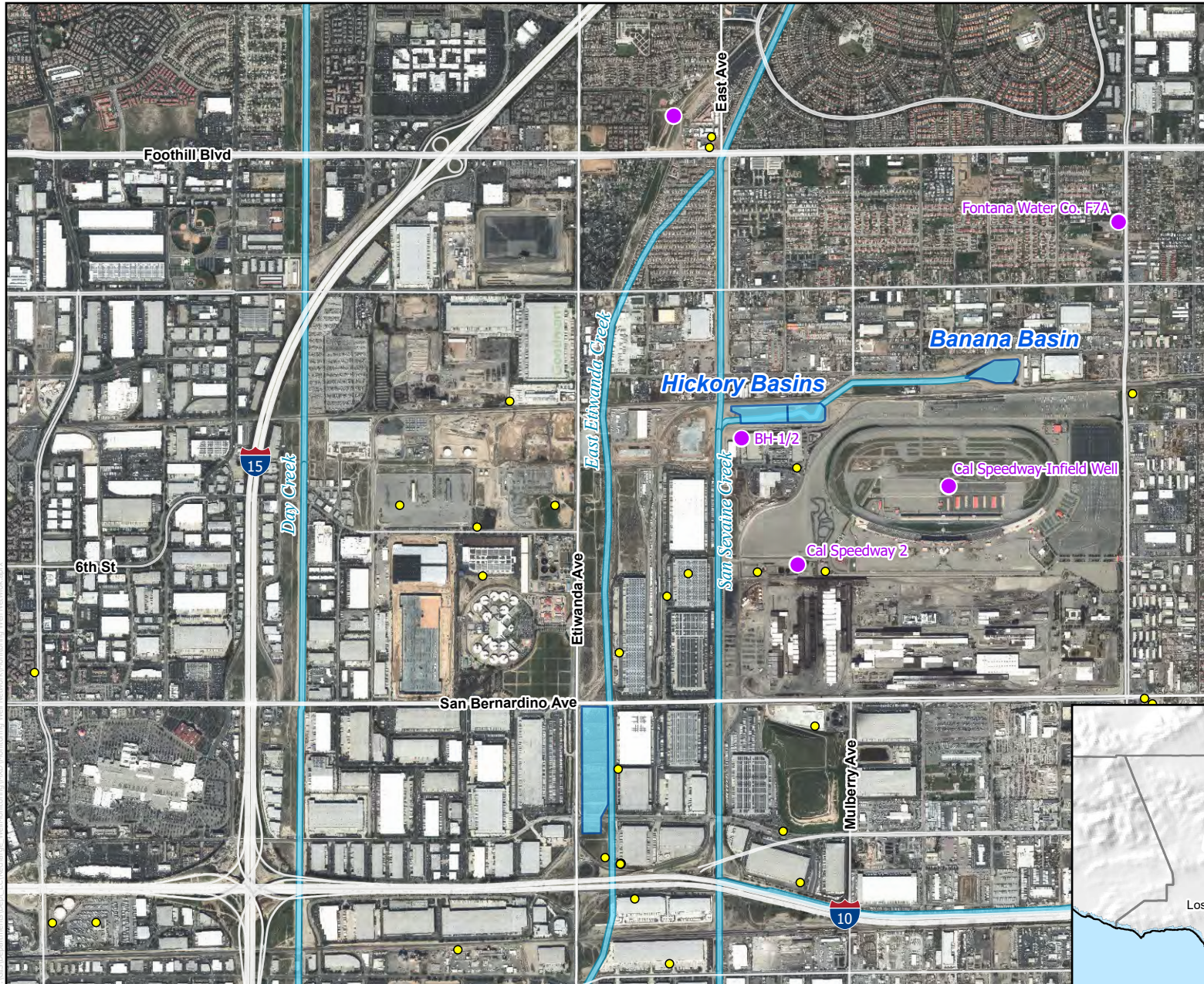


Figure 1-1



Main Map Features

- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin

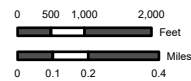


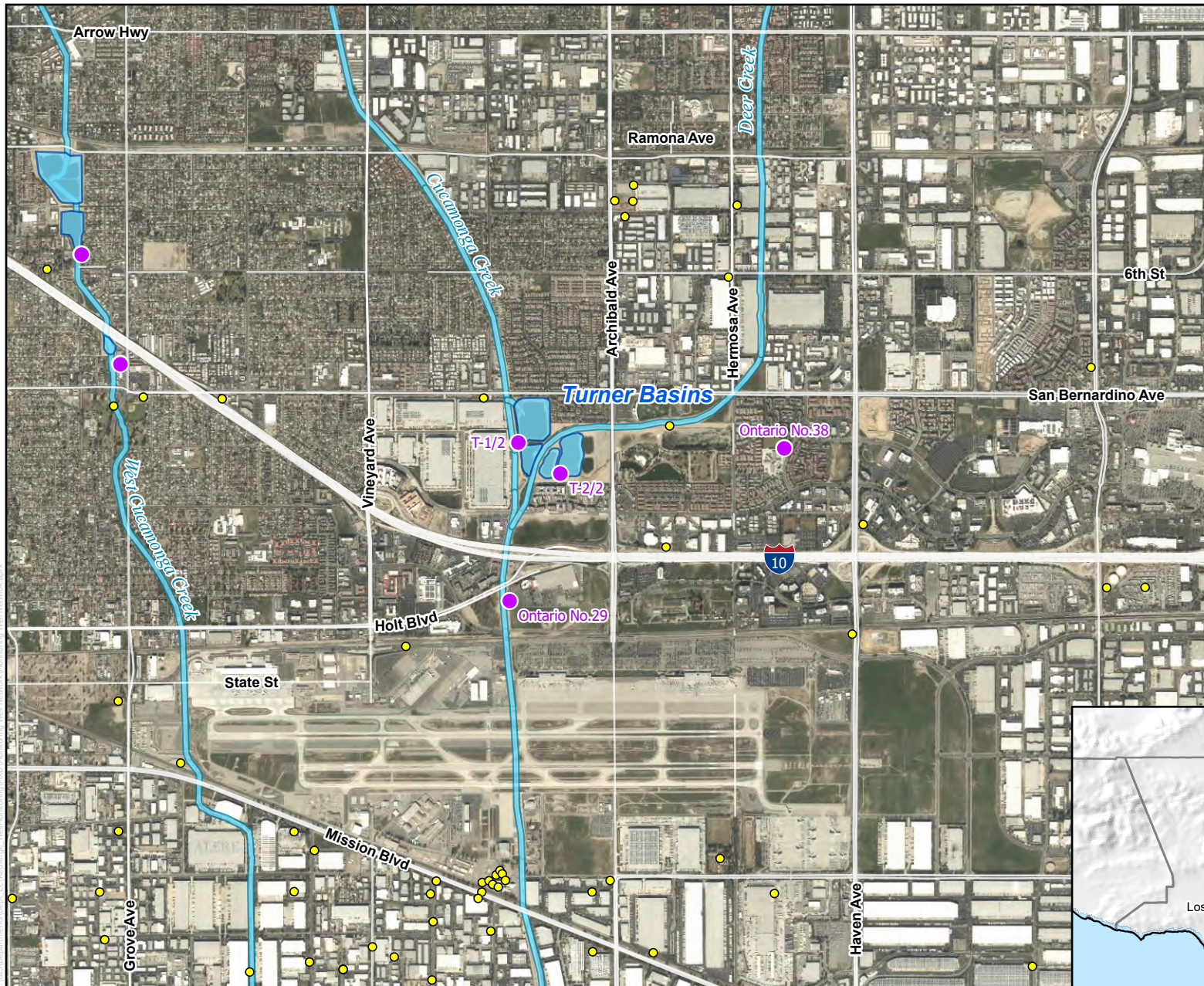
Monitoring Well Network

Hickory and Banana Basins

Figure 2-1

Recycled Water Recharge Program





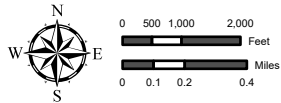
Main Map Features

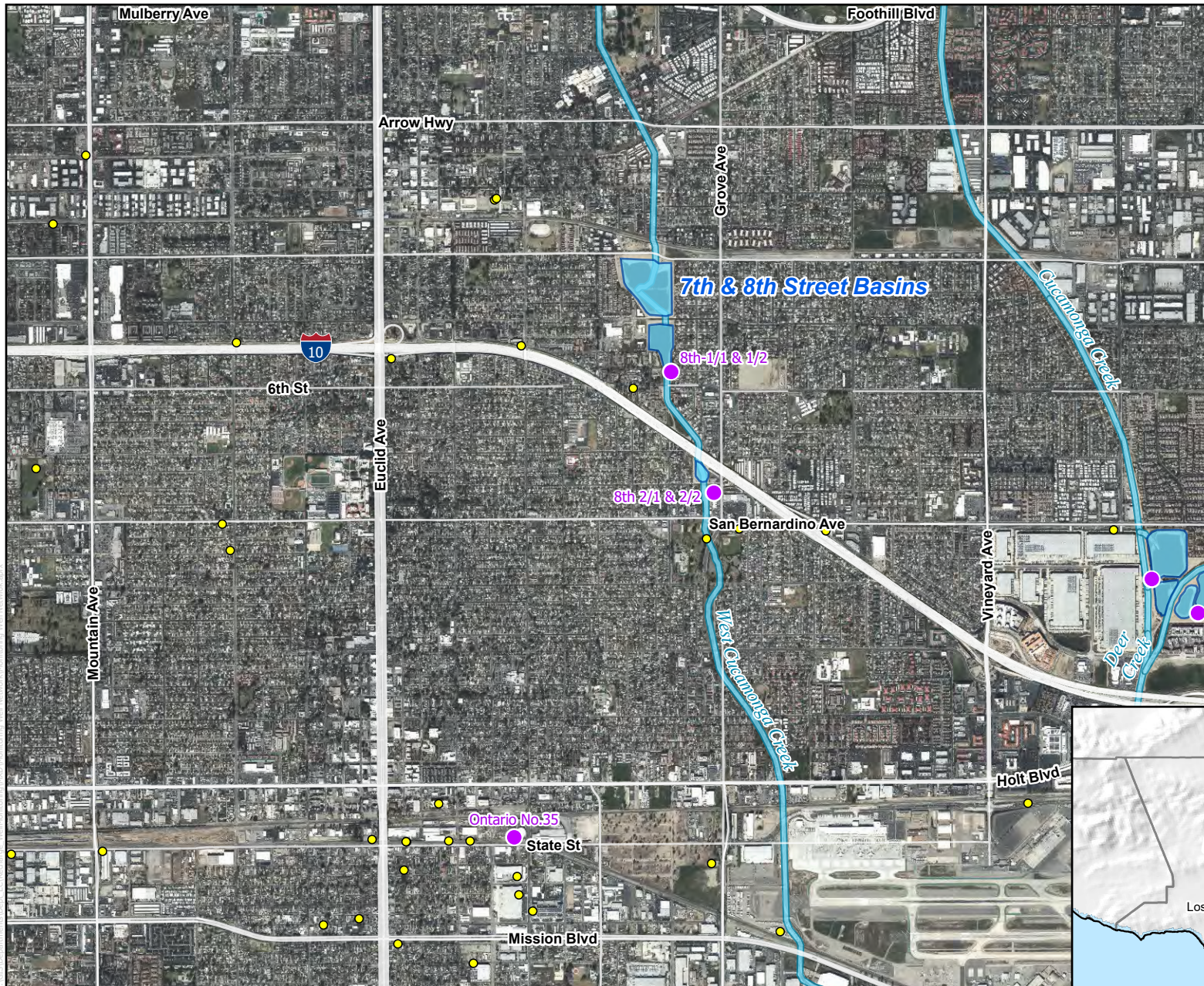
- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin



Monitoring Well Network
Turner Basins
Figure 2-2

Recycled Water Recharge Program





Main Map Features

- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin

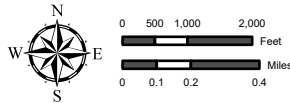


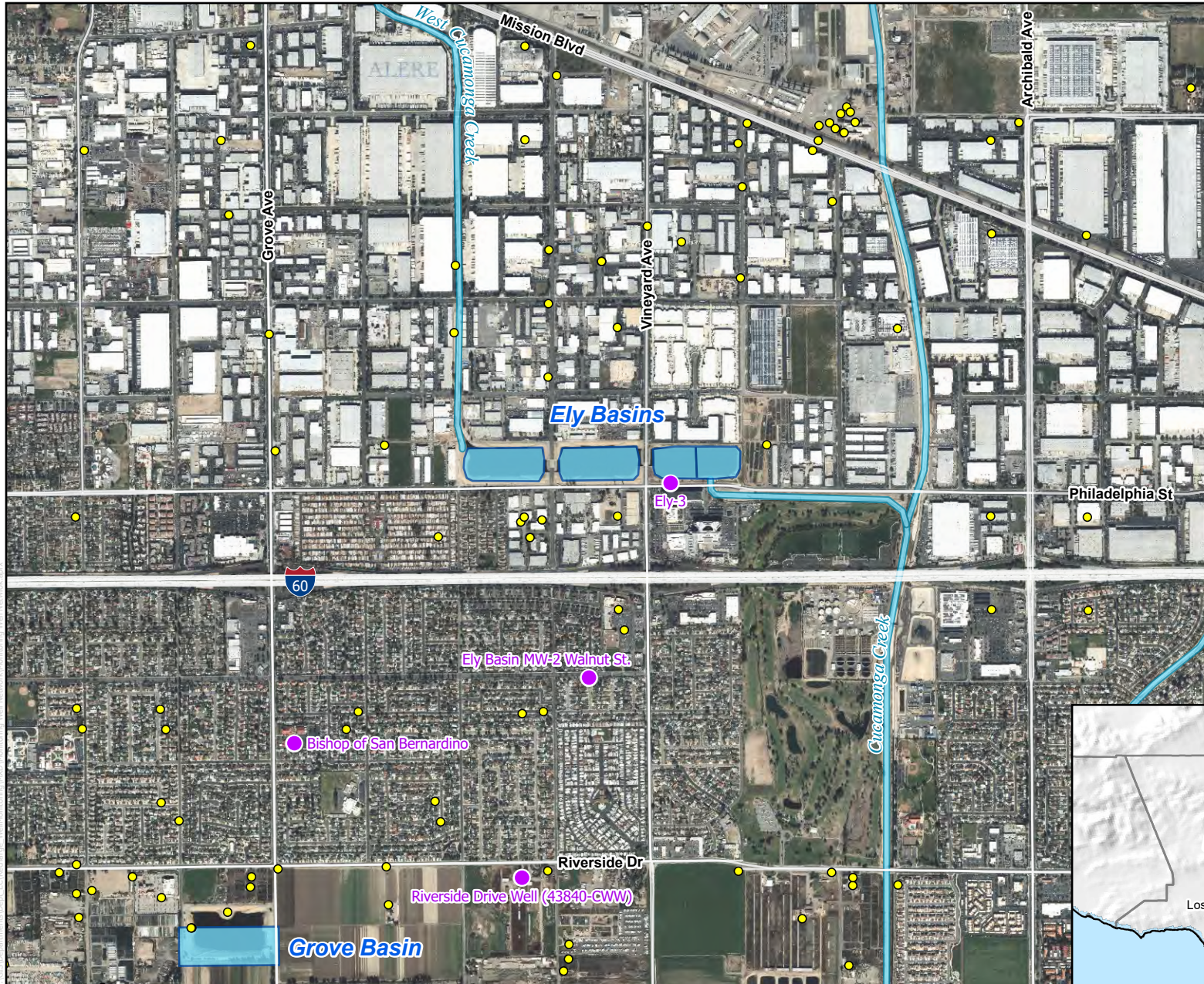
Monitoring Well Network

7th and 8th Street Basins

Figure 2-3

Recycled Water Recharge Program





Main Map Features

- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin

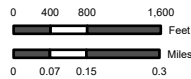


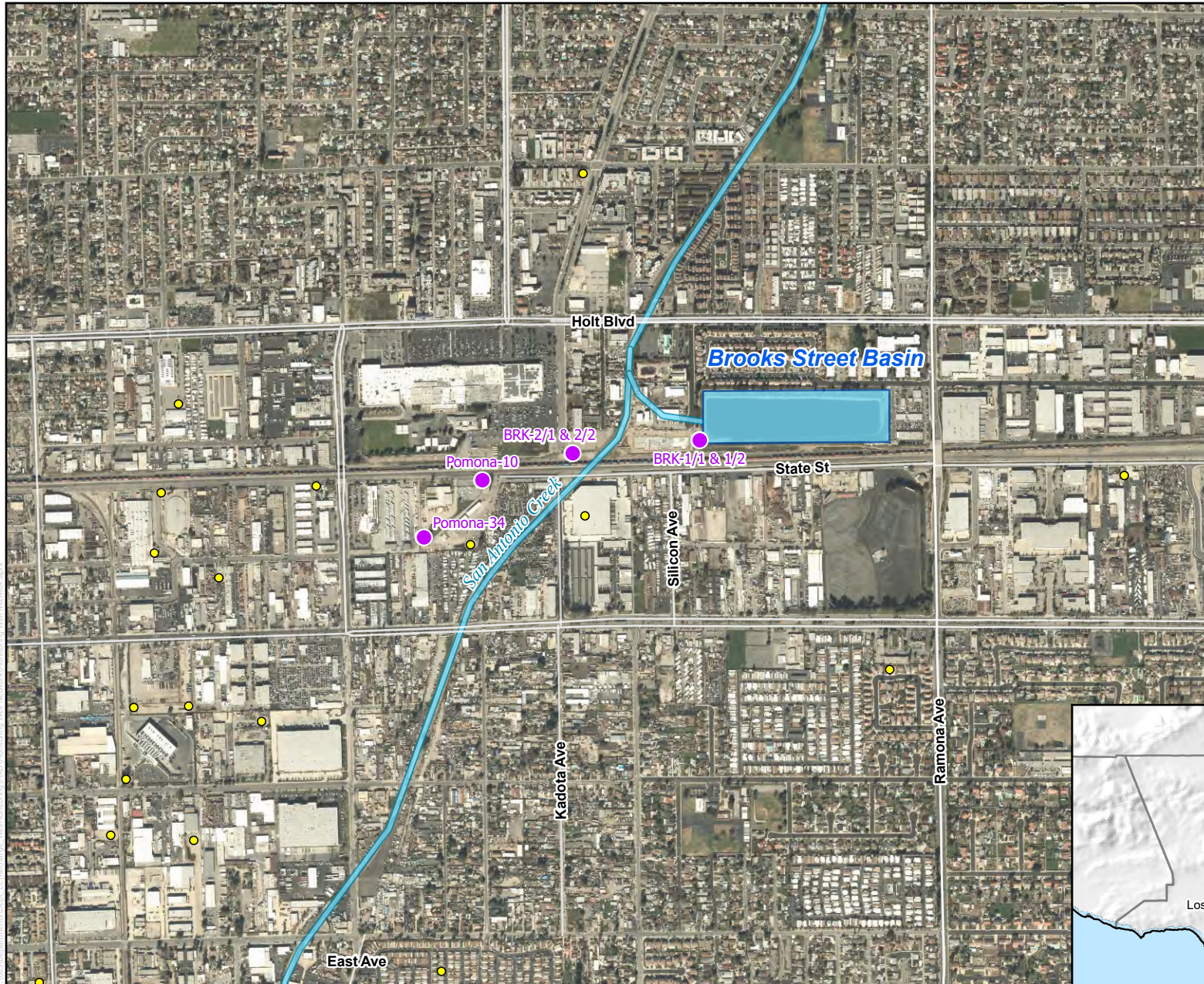
Monitoring Well Network

Ely Basins

Figure 2-4

Recycled Water Recharge Program





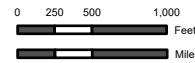
Main Map Features

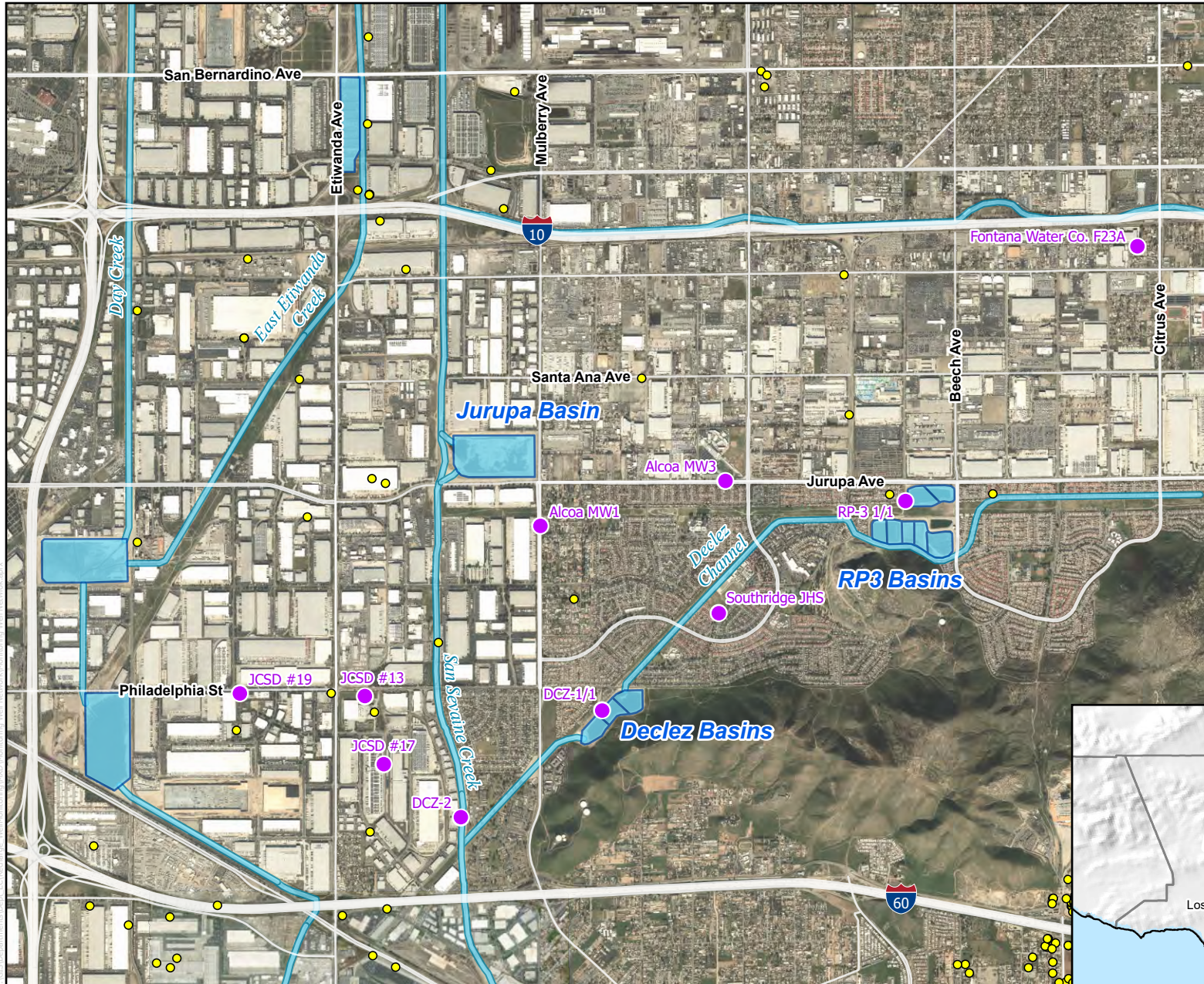
- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin



Monitoring Well Network
Brooks Street Basin
Figure 2-5

Recycled Water Recharge Program





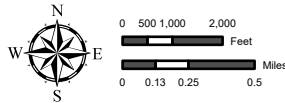
Main Map Features

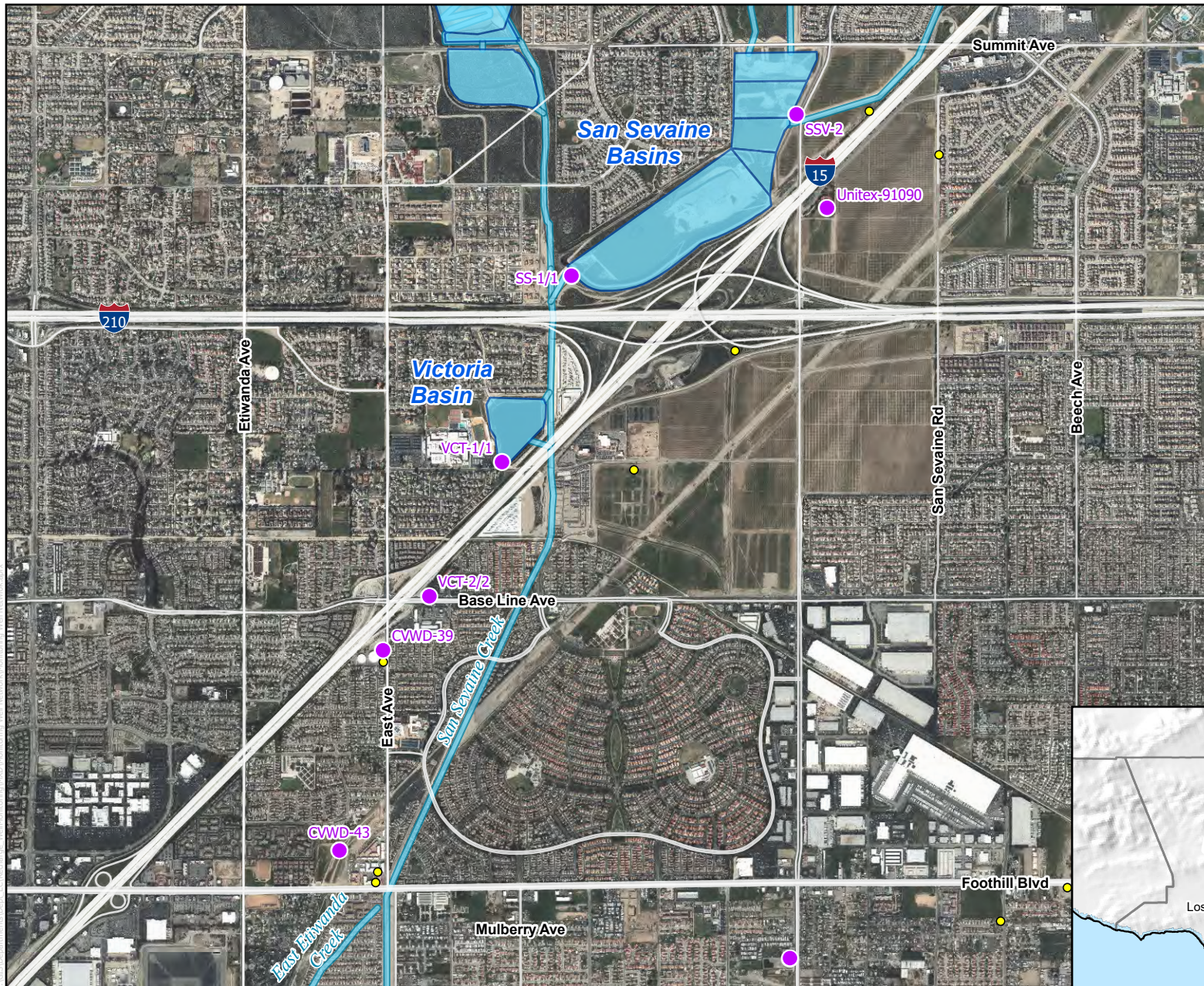
- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin



Monitoring Well Network
Declez and RP3 Basins
Figure 2-6

Recycled Water Recharge Program





Main Map Features

- Monitoring Well
- Other Well
- River/Stream/Creek
- Recharge Basin



Monitoring Well Network

San Seivaine and Victoria Basins

Figure 2-7

Recycled Water Recharge Program

