

**SBWR Service ID: [SBWR Service ID]\***  
**Recycled Water System Engineering Report**  
**for Cooling Systems**  
**[Month day, year]**

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Retailer

Date

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SBWR – South Bay Water Recycling

Date

\* Replace all red text with project-specific information. Outline any additional use of recycled water taking place within the dual-plumbed system. Delete this footnote before submission.

## Site Information

This report provides the information addressed in Sections 60313-60316 of the State of California Title 22 Regulations. It is intended to serve as a guide for the use of disinfected tertiary recycled water for cooling towers at non-residential buildings within the South Bay Water Recycling (SBWR) service area. The table below summarizes project information:

|  |   |
|--|---|
| SBWR Service ID:<br><i>(Match application)</i>                   |   |
| Site Name:<br><i>(Match application)</i>                         |   |
| Site Address:<br><i>(Match application)</i>                      |   |
| Site Contact:  | Name:<br>Title:<br>Organization:<br>Phone:<br>Email:                |
| Certified Site Supervisor:                                       | Name:<br>Certification Number:<br>Organization:<br>Phone:<br>Email: |
| Number of Cooling Units/Towers:                                  |   |
| Cooling Tower/Unit Model:<br><i>(Attach manufacturer sheets)</i> |   |
| Estimated number of persons served by facility each day:         |   |
| Facility Operation/Maintenance Company:                          |   |

**[Organization name]** is constructing **[brief description of project and location]**. The facility is **[indicate number of stories]** stories. The recycled water supply to the building will enter through a metered line. All recycled water system piping will be permanently marked in accordance with the most recent version of the California Plumbing Code and SBWR Rules and Regulations. Plans describing the proposed piping systems to be used, the pipe locations of both the recycled and potable systems, and devices to be used to prevent backflow of recycled water into the public water system are included with this submission.

Each room containing recycled water equipment shall have a sign approximately six (6) inches by six (6) inches, in a location that is visible to anyone working on or near recycled water equipment. Place signs on all access doors, hatches etc., leading to any recycled water equipment. Each sign must have the following wording in one (1) inch letters on a contrasting background:

**CAUTION:  
RECYCLED WATER, DO NOT DRINK.  
DO NOT CONNECT TO DRINKING WATER SYSTEM.**

**NOTICE:  
CONTACT BUILDING MANAGEMENT BEFORE  
PERFORMING ANY WORK ON THIS WATER SYSTEM.**

The cooling systems for this facility are located **[describe the location of major cooling system elements]**. Each cooling system is equipped with drift eliminators and will be supplied with recycled water that is fed via a California Plumbing Code approved air gap to the tower's water basin. Should recycled water ever become unavailable to the site, potable water will be utilized as the backup water. The potable water will be supplied through a California Plumbing Code approved air gap to the tower's water basin. Only authorized personnel will have access to the cooling system area. The certified Site Supervisor for this site must ensure those who operate and maintain the cooling system receive training on the safe use of recycled water. A chlorine, or other, biocide will be used to treat the recirculating water in the cooling systems to minimize the growth of Legionella and other microorganisms. Product information for the biocide and cooling system elements are attached.

The Retailer or their designee will inspect the installation of the proposed recycled water system at the location. All potable and recycled water piping will be completely separated, and all recycled water piping will be identified and installed in accordance with SBWR Rules and Regulations. Prior to the system's connection to recycled water, an AWWA certified Cross-Connection Test Specialist will certify that the recycled water system is free of cross-connections.

## **South Bay Water Recycling Cross-Connection Control Test Requirement For Recycled Water Dual-plumbed Systems**

Current California Plumbing Code cross-connection test methodology must be used on all dual-plumbed systems where recycled water is used. This test is to ensure the complete separation of the recycled water system and other water systems. Every four (4) years, a certified AWWA cross-connection test specialist must perform a full cross-connection test and submit an SBWR cross connection test form to the Retailer and CSS. Every year, a certified AWWA cross-connection test specialist must perform a visual cross-connection test and submit an SBWR cross connection test form to the Retailer and CSS. **The recycled water system *must* pass each test to maintain compliance with its recycled water permit.** A visual cross connection test is not required on years that align with a full cross-connection test.

### **Certified Site Supervisor**

The Certified Site Supervisor (CSS) is responsible for scheduling all cross-connection tests of the dual plumbed system. The CSS must notify the Retailer of any scheduled cross-connection test. After every test, the CSS must ensure the cross-connection specialist submits an SBWR cross connection test form to the Retailer. **The CSS must *immediately* notify the Retailer of any failed cross-connection tests.** The CSS's full responsibilities and the cross-connection test form are available at SBWR's webpage.

## Engineer's Certification

This document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

If there are any questions or comments, or if any additional information is required, please contact **[name of Engineering Firm or Engineer's name]** at **(xxx) xxx-xxxx**.

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**[Engineer's name]**, P.E.

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Date (mm/dd/yyyy)

*This page is to be signed and stamped by  
the above-mentioned Engineer*