

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. R4-2002-0173

AMENDING WATER RECYCLING REQUIREMENTS IN ORDER NO. 01-043
FOR
WEST BASIN MUNICIPAL WATER DISTRICT
(West Basin Water Recycling Facility)
(Title 22 Recycled Water)
(File No. 94-062)

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board), finds:

1. West Basin Municipal Water District (West Basin or Producer) owns and operates the West Basin Water Recycling Facility (Recycling Facility) at 1935 Hughes Way, El Segundo, California.

The Recycling Facility provides tertiary and/or advanced treatment to a portion of the secondary treated wastewater from the City of Los Angeles' Hyperion Treatment Plant and has a capacity of producing up to 41.8 million gallons per day (mgd) of recycled water. There are essentially three types of recycled water produced at the Recycling Facility:

- a. Title 22 recycled water – Up to 30 mgd of disinfected tertiary treated recycled water for irrigation and industrial uses;
- b. Boiler Feed recycled water – Up to 4.3 mgd of microfiltration and reverse osmosis treated recycled water used only for boiler feed at Chevron Refinery; and
- c. Barrier recycled water – Up to 7.5 mgd of advanced treated (multi-media filtration/microfiltration and reverse osmosis) recycled water for West Coast Basin seawater barrier injection.

The production and use of Title 22 and Boiler Feed recycled waters are regulated under Water Recycling Requirements contained in Order No. 01-043 (File No. 94-062), adopted by this Regional Board on March 29, 2001. The production and injection of the Barrier recycled water are regulated under separate water recycling requirements in Order No. 95-014 (File No. 93-009) and its amendments adopted by this Regional Board.

2. In a letter dated August 9, 2002, West Basin requested the Regional Board to allow for the use of Title 22 recycled water for street sweeping under Order No. 01-043.
3. In a later communication, West Basin also indicated its intention of using Title 22 recycled water for sewer line flushing. Sewer line flushing will not result in any discharge to surface water or to land/groundwater, hence, no requirement for this proposed use is necessary.

September 19, 2002
Revised September 26, 2002

4. Section II of Order No. 01-043, Specifications for Use of Recycled Water, specifies the uses for the Title 22 recycled water. Section II.C provides that, for recycled water uses other than those specified in Section II. B of Order No. 01-043, an engineering report shall be submitted to the State Department of Health Services (State DOHS) and/or requirements for these uses may be prescribed by the Regional Board prior to delivery of recycled water.
5. This Order amends Order No. 01-043 authorizing the use of Title 22 recycled water for cleaning roads, sidewalks, and outdoor work areas, and prescribes additional water recycling requirements for these new uses. The amendment also authorizes the Executive Officer of the Regional Board to approve additional uses of the disinfected tertiary recycled water allowed under California Code of Regulations, Title 22, Chapter 3, Water Recycling Criteria, after the Producer has obtained approval for such uses from the State DOHS.
6. This Order also clarifies the use of Title 22 recycled water for injection into the Old Dune aquifer underneath the El Segundo Chevron Refinery for Chevron's Liquid Hydrocarbon (LHC) Recovery Program. The use of Title 22 recycled water in Chevron's LHC Recovery Program will be regulated under separate waste discharge requirements. Therefore, the recycled water quantity limitation of one (1) mgd for groundwater injection prescribed in Order No. 01-043 for Chevron is deleted in this Order.
7. The Water Recycling Criteria [Section 60307(b)(7), Chapter 3, Title 22, California Code of Regulations] provides that recycled water used for cleaning roads, sidewalks and outdoor work areas shall be at least disinfected secondary-23 recycled water. Disinfected secondary-23 recycled water is oxidized wastewater that has been disinfected so that the 7-day median of total coliform bacteria does not exceed 23 most probable number (MPN) per 100 milliliters (mL). West Basin's Title 22 recycled water, which is tertiary treated wastewater that has been disinfected such that the 7-day median of total coliform bacteria does not exceed 2.2 MPN per 100 mL, exceeds these requirements.
8. Pursuant to Section 13523 of the California Water Code, this Regional Board has consulted with the State DOHS regarding West Basin's request to include additional uses for its Title 22 recycled water. The State DOHS recommendations and conditions for the requested uses are incorporated in this Order.
9. The requirements contained in this Order, as they are met, will be in conformance with Water Recycling Criteria, the goals and objectives of the Basin Plan and policies of this Regional Board, and comply with the requirements of the Water Code.
10. Pursuant to California Water Code Section 13320, any aggrieved party may seek review of this Order by filing a petition with the State Board. A petition must be sent to the State Water Resources Control Board, 1001 I Street, Sacramento, CA 95814, within 30 days of adoption.

11. Amending water recycling requirements for an existing facility is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 2100 et seq.) in accordance with California Code of Regulations, Title 14, Chapter 3, Section 15301.

The Regional Board has notified the Producer and interested agencies and persons of its intent to amend the water recycling requirements for the use of West Basin's Title 22 recycled water and has provided them with an opportunity to submit their written views and recommendations.

The Regional Board, in a public meeting, heard and considered all comments pertaining to the additional uses of recycled water and the tentative Order amending the water recycling requirements.

IT IS HEREBY ORDERED that Order No. 01-043 adopted by this Regional Board on March 29, 2001, is amended as follows:

1. On page 6, delete Section I.C. RECYCLED WATER LIMITATIONS:
 - C. The recycled water used by Chevron for the injection into the Old Dune Sand aquifer for Chevron's Liquid Hydrocarbon Recovery Program shall not exceed one (1) million gallons per day.
2. On page 7, add the following to Section II.B. SPECIFICATIONS FOR USE OF RECYCLED WATER:
 - B. The disinfected tertiary recycled water may be used for the following:
 4. Cleaning roads, sidewalks and outdoor work areas;
 5. Groundwater injection in Chevron's Liquid Hydrocarbon Recovery Program provided separate waste discharge requirements are prescribed by the Regional Board; and
 6. Other allowable uses as specified in the Water Recycling Criteria*.

* The Producer shall obtain approval from the State DOHS and the Executive Officer of the Regional Board for additional uses not specified in this Order or Order No. 01-043 prior to delivery of recycled water. Additional requirements may be prescribed by the Regional Board for such uses.
3. On page 14, add the following requirements to Section V. (PROVISIONS):
 - X. All recycled water filling stations where street sweeping and sewer flushing vehicles can fill-up shall display signs incorporating "**RECYCLED WATER – DO NOT DRINK**" wording and the international symbol as shown in Figure 2 of Order No. 01-043.

- Y. When street sweeping and sewer flushing vehicles are accepting both recycled water and potable water, the Producer and user shall insure cross-connection protection by complying with the following:
1. Each vehicle shall have two risers, one for potable and one for recycled water. An air gap separation between the riser outlet and water tank shall be provided;
 2. The risers, hoses and fittings for each supply shall be color coded (painted), blue for potable and purple for recycled water;
 3. The hoses, hydrants and risers for each supply shall have separate and unique fittings (e.g., 2-1/2 inch diameter on the potable system and 2 inch diameter on the recycled water system) such that the potable system cannot accidentally be used on the recycled system and vice versa; and
 4. Signage shall be placed on each vehicle identifying it as carrying nonpotable /recycled water and incorporate the wording "**RECYCLED WATER – DO NOT DRINK**" and the international symbol as shown in Figure 2 of Order No. 01-043.
 5. Each vehicle shall be completely cleaned and disinfected prior to delivery of potable water for human consumption.

All other Requirements, Limitations, and Provisions of Order No. 01-043 not affected by the foregoing amendments shall remain in full force and effect.

This Order takes effect upon its adoption.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on October 24, 2002.

Dennis A. Dickerson
Executive Officer

/jrc