

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

**ADDENDUM NO. 2
TO
ORDER NO. 2000-203
WASTE DISCHARGE AND WATER RECYCLING REQUIREMENTS
FOR THE PRODUCTION AND PURVEYANCE
OF RECYCLED WATER
FOR
CITY OF SAN DIEGO
SOUTH BAY WATER RECLAMATION PLANT
SAN DIEGO COUNTY**

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On November 8, 2000, this Regional Board adopted Order No. 2000-203, Waste Discharge and Water Recycling Requirements for the Production and Purveyance of Recycled Water for the City of San Diego (City) South Bay Water Reclamation Plant (SBWRP). Order No. 2000-203 established waste discharge requirements and water recycling requirements for production, distribution, and use of up to 15.0 million gallons per day of recycled water at use sites within the Otay Valley Hydrologic Area (HA) (910.20) and the Tijuana Valley HA (911.10) for a range of potential uses.
2. On October 13, 2004, this Regional Board adopted Addendum No. 1 to Order No. 2000-203. Addendum No. 1 addresses modifications to original discharge specifications, disinfection process specifications, the facility operation manual, monitoring provisions, and effluent monitoring requirements in response to issues the California Department of Health Services (DHS) identified during a commissioning study of the ultraviolet (UV) disinfection system at the SBWRP.
3. According to Section 13263(e) of the California Water Code, the Regional Board may, upon application by any affected person, or on its own motion, review and revise waste discharge requirements.
4. By letter dated September 29, 2005, the DHS requested modifications to Order No. 2000-203 associated with operation and maintenance at the SBWRP to comply with DHS requirements for the UV disinfection of recycled water.
5. The issuance of waste discharge requirements for this discharge is exempt from the requirement of preparation of environmental documents under the California Environmental Quality Act [Public Resources Code, Division 13, Chapter 3, Section 21000 et seq.] as provided by Section 15301 for existing facilities, and in compliance with Section 15300.2, of California Code of Regulations Title 14.

6. The Regional Board has notified all interested parties of its intent to modify Order No. 2000-203.
7. The Regional Board in a public hearing on June 14, 2006 heard and considered all comments pertaining to the modification of Order No. 2000-203.

IT IS HEREBY ORDERED THAT Order No. 2000-203 be modified as follows:

1. Facility Design and Operation Specification C.3. Disinfection Process – Parts c through k of the section shall be replaced with the following:
 - c. Regular cleaning of the quartz sleeve surfaces is required to avoid inadequate transmittance of UV light. ActiClean™ Gel was the cleaning agent used for testing and inspections prior to distribution of recycled water from the SBWRP. Trojan Technologies, Incorporated manufactures ActiClean™ Gel as well as the UV lamps used at the SBWRP. Therefore, ActiClean™ Gel shall be the designated cleaning agent. If the City decides to change the cleaning agent in the future, other comparable cleaning agents may be considered, with the prior approval of the DHS and Regional Board.
 - d. Continuous, reliable monitoring of the flow, UV transmittance, power, and turbidity shall be provided.
 - e. The UV transmittance (at 254 nanometers) in the wastewater exiting the UV system shall not fall below 55 percent of the maximum.
 - f. The power setting on any UV bank in operation shall not fall below 30 percent of the maximum.
 - g. The discharger shall use a minimum of two UV banks in service at all times.
 - h. The quartz sleeves and cleaning system components must be visually inspected every 3 months for physical wear (scoring, solarization, seal leaks, ActiClean™ Gel levels, etc.) and to check on the efficacy of the cleaning system. The discharger must maintain records tracking these visual inspections.
 - i. The lamp sleeves must be cleaned every 3 hours. ActiClean™ Gel must be replaced every six months. The discharger must maintain records tracking ActiClean™ Gel replacement.
 - j. Lamps must be replaced after they have reached 5000 hours of operation, or sooner if there are indications the lamp is failing to provide adequate disinfection. The discharger must maintain records tracking lamp age and lamp replacement for each lamp.
 - k. The facility must be operated in accordance with an operations and maintenance manual approved by the Regional Board and DHS.

2. Facility Design and Operation Specification C.5. Operation Manual – The entire text of the section shall be replaced with the following:

A copy of the facility operations and maintenance manual shall be maintained at the City's facility and shall be available to operation personnel and the Regional Board at all times. The following portions of the operations manual shall be posted at the treatment plant as a quick reference for treatment plant operators:

- a. Alarm set points for secondary turbidity, tertiary turbidity, low flow, high flow, UV dose, UV transmittance, power, and UV lamp operating hours.
- b. Values at which flow will be diverted for secondary turbidity, tertiary turbidity, low flow, high flow, UV dose, UV transmittance, power, and UV lamp operating hours.
- c. When to divert flow for high daily and weekly median total coliform.
- d. When the DHS, DEH, and Regional Board will be notified in the event of system failure.
- e. Frequency of calibration for the meters measuring turbidity, flow, UV transmittance, and verification of power.
- f. Frequency of mechanical cleaning and inspection of the quartz sleeves and replacement of the cleaning fluid.
- g. UV lamp tracking procedures and replacement interval.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, on June 14, 2006.



JOHN H. ROBERTUS
Executive Officer