

ITEM: 9

SUBJECT: City of Red Bluff Wastewater Reclamation Plant, Tehama County

BOARD ACTION: *Consideration of NPDES Permit Renewal*

BACKGROUND: The Discharger owns an advanced secondary treatment wastewater reclamation plant in the City of Red Bluff, Tehama County. The wastewater reclamation plant is operated by SouthWest Water Company. The treatment system consists of screening for removal of large solids, aerated grit removal, primary sedimentation, activated sludge treatment with secondary clarification, filtration, and chlorination/dechlorination. Primary and waste activated sludge are treated by aerobic digestion, storage in solids storage basins, followed by dewatering and drying in sludge drying beds. Wastewater is discharged from Discharge Point 001 to the Sacramento River, a water of the United States, within the Sacramento River Basin. The facility discharges up to 2.5 million gallons per day (mgd) treated effluent to the Sacramento River.

The Discharger provides approximately 6.5 million gallons of treated effluent per year for reclamation purposes for landscape irrigation on State of California, Department of Transportation (Caltrans) property along Interstate 5. This discharge of recycled water for roadside landscape irrigation is currently governed by Wastewater Reclamation Permit Order No. 5-01-262, issued to Caltrans and adopted by the Board on 7 December 2001.

The Discharger has performed effluent and receiving water analysis for priority pollutants (and other pollutants) listed in the National Toxics Rule and California Toxics Rule (CTR) in accordance with the State Implementation Policy. Several constituents (ammonia, copper, zinc, dichlorobromomethane, and chlorodibromomethane) were identified as constituents of concern and this Order contains effluent limitations for these CTR constituents. The proposed Order also has requirements for a Constituent Study (aluminum, nitrate and nitrite), Mixing Zone/Dilution Confirmation Study, an Outfall Design Study, and an Ammonia Reduction Study.

ISSUES Comments were received from the Discharger, Central Valley Clean Water Association (CVCWA) and US Environmental Protection Agency. Staff made changes to the proposed permit in response to some of the comments. Staff's response to comments and permit revisions are included with this agenda item.

The main issues are how to determine appropriate mixing zones and dilution credits, and the chronic toxicity monitoring trigger, and how to determine what data is appropriate for use.

RECOMMENDATION: Adopt the proposed order.

Mgmt. Review\_\_Smith\_\_\_\_  
Legal Review\_\_\_\_Coupe\_\_

30, 31 May 2013

11020 Sun Center Dr. #200  
Rancho Cordova, CA 95670