

ITEM: 14

SUBJECT: Uncontested NPDES Permits

REPORT: Following is a proposed permit. All agencies and the dischargers concur, or have offered no comments. Consideration of NPDES Permit Renewal

	a	<p>Lincoln Center Environmental Remediation Trust, Groundwater Treatment System, San Joaquin County</p> <p>The Regional Water Quality Control Board, Central Valley Region, (Central Valley Water Board) adopted Waste Discharge Requirements Order No. R5-2005-0144 (NPDES Permit) on 21 October 2005, for the Lincoln Center Environmental Remediation Trust (Discharger) Groundwater Treatment System (GWTS), San Joaquin County. The Discharger operates the GWTS as part of a remedial action to clean groundwater polluted with volatile organic compounds (VOCs), including perchloroethene (PCE) solvent contamination, considered carcinogenic and thus a threat to public health in groundwater designated for use as drinking water in the vicinity of the Lincoln Center remediation site. Pumped groundwater is treated by air stripping and granular activated carbon. The treated groundwater is discharged to Fourteen-Mile Slough via the City of Stockton's storm drain system.</p> <p>The Central Valley Water Board also adopted Time Schedule Order No. R5-2005-0145 on 21 October 2005, because the Discharger was unable to immediately comply with the final effluent limitations for ammonia, iron, manganese, specific conductance, hexavalent chromium, mercury, arsenic, and barium. The Discharger performed monitoring studies to confirm the source of these constituents to determine the ability of the GWTS to meet the final effluent limits. As a result, it was determined that the Discharger is able to comply with all effluent limits, except barium and arsenic. The Discharger subsequently conducted a mixing zone study, which concludes that assimilative capacity and dilution is available in the receiving water for arsenic and barium and requested the effluent limits be modified to allow dilution. The proposed amendment allows for a mixing zone and amends the water quality-based effluent limits for arsenic and barium in the NPDES permit to account for dilution.</p>
		<p>Public comments were received by the Discharger. The following is a summary of the comments and Central Valley Water Board staff responses. Changes made to the proposed Order due to</p>

	<p>public comments are identified with yellow highlighting in the agenda package, to distinguish changes made to the original tentative.</p> <p><u>Proposed final effluent limit for barium does not consider statistical variation:</u> The water quality-based effluent limitation for barium is 580 µg/L based on the proposed mixing zone. However, to satisfy antidegradation requirements the proposed amendment includes a more stringent final effluent limitation based on the performance of the GWTS. The Discharger commented the proposed performance-based effluent limit is based only on the observed maximum effluent concentration and does not account for statistical variability, which may result in future exceedances. Central Valley Water board staff agrees that to adequately account for statistical variability the performance-based limit should be based on the 99.9th percentile for the data set (i.e., 415 µg/L assuming a log-normal distribution). Therefore, the proposed permit amendment has been modified to include a final maximum daily effluent limit for barium of 415 µg/L.</p>
--	--

RECOMMENDATION: Adopt the proposed NPDES permits.

Mgmt. Review _____

Legal Review _____

29 July 2010
 Central Valley Regional Water Quality Control Board meeting
 11020 Sun Center Dr. #200
 Rancho Cordova, CA 95670