

ITEM: 23

SUBJECT: Uncontested Waste Discharge Requirements

REPORT: Following are the proposed waste discharge requirements that prohibit discharge to surface waters. All agencies and the dischargers concur or have offered no comments. Items indicated as updates on the summary agenda make the requirements consistent with current plans and policies of the Board.

a	<p><b>AEROJET-GENERAL CORPORATION, WHITE ROCK NORTH DUMP GROUNDWATER TREATMENT SYSTEM Sacramento County</b></p> <p>Aerojet-General Corporation is the current owner of a parcel of property, adjacent to Aerojet’s Superfund site, in eastern Sacramento County that was the site of the former White Rock North Dump. Leakage from the dump has caused the groundwater to be polluted with volatile organic contaminants (VOCs) such as trichloroethylene (TCE), tetrachloroethylene (PCE) and their breakdown products, including vinyl chloride. In addition, a plume of contaminated groundwater from the Superfund site also passes below the former dump and contains perchlorate and TCE. Aerojet and other responsible parties were issued Cleanup and Abatement Order 96-150 directing clean up of the groundwater. The initial response had Aerojet constructing and interim groundwater extraction and treatment system designed to intercept the high concentrations of VOCs at the dump property boundary. Aerojet has since constructed a system to control not only the VOC plume from the dump, but also the Superfund perchlorate and TCE plume on the west side of the dump. Aerojet has constructed a treatment system on Teichert property to treat groundwater from extraction wells and the Teichert water supply well. The treatment system will remove VOCs to less than 0.5 µg/L and perchlorate to less than 4 µg/L, below their respective water quality objectives. The water will be supplied to Teichert for use in their aggregate processing facilities and when not needed by Teichert discharged on Aerojet property for infiltration back to the groundwater. Groundwater monitoring is conducted pursuant to a monitoring program under the Cleanup and Abatement Order (AMM).</p>
b	<p><b>Shasta Gold Corporation and French Gulch (Nevada) Mining Corporation, Tailings and Waste Rock Disposal Facilities, Washington Mine, Shasta County</b></p> <p>Shasta Gold Corporation and French Gulch (Nevada) Mining Corporation own and operate an underground gold mine near French Gulch, Shasta County. Ore and waste rock are removed from the underground mine and the waste rock is placed in a designated disposal area. Ore is processed through a mill where the particle size is reduced and gold is separated with gravity jigs and finally through flotation cells. In the flotation cells, chemical reagents are added to allow the gold bearing particles to adhere or “float” on bubbles which are skimmed from the processing solution. The processing solution is recycled back through the mineral recovery system. The fine grained residue, called tailings, is dried through a filter screen and stockpiled adjacent to the mill until they can be transported to the tailings disposal facility. The tailings, which contain appreciable concentrations of heavy metals, including arsenic, are classified as a Group B mining waste pursuant to Title 27 and require a constructed</p>

	<p>containment facility.</p> <p>Larger grained, non-reactive waste rock not requiring any special containment is classified as a Group C mining waste and deposited directly onto the ground.</p> <p>These requirements revise the existing waste discharge requirements for the disposal of solid mine waste to comply with Title 27 by requiring a lined containment facility for the tailings and reactive waste rock produced at the mine. A time schedule to move the existing tailings from an unlined area to the lined facility is included.</p> <p>Discharges of mine drainage to surface waters are regulated under a separate NPDES Permit.</p>
c	<p><b>TEHACHAPI-CUMMINGS COUNTY WATER DISTRICT, TEHACHAPI-CUMMINGS RECYCLING SYSTEM, KERN COUNTY (NEW)</b></p> <p>The Tehachapi-Cummings County Water District proposes to distribute disinfected tertiary recycled water produced by the California Department of Corrections, California Correctional Institution in Tehachapi (Prison), wastewater treatment facility for irrigation of a nearby golf course (Horse Thief Golf Course) and local farm lands. The wastewater treatment facility is regulated by Waste Discharge Requirements (WDRs) Order R5-2011-0007.</p> <p>The proposed Master Reclamation Permit (Permit) includes requirements for the Tehachapi-Cummings County Water District to establish and enforce rules and regulations for recycled water users in accordance with statewide recycling criteria, and for its Users to conduct periodic inspections of the recycled water use sites. The Tehachapi-Cummings County Water District is responsible for the operation and maintenance of transport facilities and associated appurtenances used to distribute the tertiary disinfected recycled water. The Permit requires the Tehachapi-Cummings County Water District to hold its Users responsible for the application and use of recycled water on the designated Reclamation Areas and to ensure associated operations and maintenance are in accordance with all applicable Title 22 requirements. (JSP)</p>
d	<p><b>Triangle Rock Products, Inc., Florin Rd Aggregate Plant, Sacramento County</b></p> <p>Triangle Rock Products, Inc. (Discharger) has expanded their aggregate mining and washing facility at 11501 Florin Road in Sacramento County, adding 121 acres (Expansion Area) to the existing 413-acre facility. The Discharger owns all the property and will operate the facility.</p> <p>The total mining and washing facility is now comprised of 534 acres and includes 339 acres to be mined, the original mining site, the existing processing plant, office, and fuel/oil storage area, and Expansion Area. The facility is bounded on the east by the Folsom South Canal. Laguna Creek traverses the facility. With the exception of Mining Phase X, the remainder of the site is outside of the 100-year flood plain. Per mitigation measure as contained in the Supplemental Final Environmental Impact Report, the Discharger shall complete flood control berms along the western bank of</p>

	<p>Laguna Creek prior to commencing Phase X. The Discharger has prepared a Spill Prevention Control and Countermeasure Plan for storage of their hazardous material.</p> <p>The majority of the wash water is from the on-site ponds. Any additional water needed to replace water lost to evaporation or retained in the aggregate will be provided from the on-site wells. Since all ponds can be used to dispose of wastewater, they are all considered to be wastewater ponds. Wastewater (silt-laden water or sediment slurry) from the clarifier is discharged via a high density polyethylene pipe into the settling ponds. The decant water is pumped to the fresh water tank for reuse. The settled fines or silts is allowed to dry and is compacted as fill. No dewatering of the excavation is performed.</p> <p>Wastewater and groundwater quality are similar (average total dissolved solids and electrical conductivity concentrations), with the exception of chloride. Although wastewater quality shows some variability with respect to chloride, chloride concentrations in groundwater remain steady. This Order requires further investigation of salinity reduction best practicable treatment and controls and a groundwater quality evaluation.</p>
e	<p><b>CALAVERAS COUNTY DEPARTMENT OF PUBLIC WORKS; ROCK CREEK SOLID WASTE FACILITY; CLASS II LANDFILL; CLASS II SURFACE IMPOUNDMENT; CONSTRUCTION, OPERATION, CLOSURE, AND POST-CLOSURE MAINTENANCE; Calaveras County</b></p> <p>Calaveras County Department of Public Works (Discharger) submitted an 18 October 2010 <i>Phase I Partial Final Closure and Postclosure Maintenance Plan</i> for closure of the Phase I-A and Phase I-B areas of the landfill at the Rock Creek Solid Waste Facility near Milton. The closure plan proposes an engineered alternative final cover for the landfill that requires revision of the facility's waste discharge requirements (WDRs) for approval. The engineered alternative final cover consists of, from bottom to top, an 18-inch soil foundation layer, a 40-mil geomembrane, a geocomposite drainage layer, and an 18-inch soil vegetative layer. The Discharger included the necessary engineered alternative demonstrations required by Title 27, California Code of Regulations. The proposed order approves the proposed final cover components for closure of the Phase I-A and Phase I-B areas and future closure phases for the landfill; however, design documents for future phases must be submitted for review and approval to verify they are in compliance with Title 27 and the WDRs. (WLB)</p>

RECOMMENDATION: Adopt the proposed waste discharge requirements.

Mgmt. Review \_\_\_\_\_

Legal Review \_\_\_\_\_

April 8, 2011

Central Valley Regional Water Quality Control Board meeting

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