

INFORMATION SHEET

ORDER R5-2017-XXXX
CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION
DEUEL VOCATIONAL INSTITUTION
CLASS II SURFACE IMPOUNDMENTS
CONSTRUCTION, OPERATION, CLOSURE, AND CORRECTIVE ACTION

CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION; DEUEL VOCATIONAL INSTITUTION CLASS II SURFACE IMPOUNDMENTS; SAN JOAQUIN COUNTY

The facility operates Class II surface impoundments regulated under authority given in Water Code section 13000 et seq.; and Title 27 section 20005 et seq. The facility is on a 760-acre property at 23500 Kasson Road, Tracy. The facility currently operates a reverse osmosis (RO) groundwater treatment plant that includes a brine concentrator system (BCS) and four evaporation ponds (Class II Surface Impoundments) that serves the CDCR vocational facility which includes inmate housing and supporting operations. The Discharger proposes to clean close the existing surface impoundments and replace them with four new 1.7-acre Class II surface impoundments. The Class II surface impoundments are used for containment of the discharge of hypersaline wastewater generated during the reverse osmosis and brine concentration process used in the production of potable drinking water. The primary constituents of concern in the wastewater are total dissolved solids which include chloride, sodium, sulfate, manganese, aluminum, and iron.

Following construction of the four 1.1-acre ponds in 2008, a leak in the secondary liner was discovered on 18 September 2014. In February 2015 the Discharger ceased discharging waste to the ponds. On 30 March 2015, Central Valley Water Board Executive Officer issued a Cleanup and Abatement Order (CAO) requiring the Discharger to develop a Long Term Compliance Implementation Report which included a schedule when the leaks in the primary and secondary liners would be repaired. In response to the CAO, on 30 September 2016, the Discharger submitted a Report of Waste Discharge (ROWD) to replace the ponds. The information in the ROWD and supporting documents contain information related to this revision of the WDRs including:

- Clean closure of the four existing 1.1-acre Class II surface impoundments;
- Reconstruction of the clean closed area into two new 1.7 acre Class II surface impoundments;
- Construction of two new 1.7 acre Class II surface impoundments;
- Installation of unsaturated zone and groundwater detection monitoring systems for the Class II surface impoundments; and
- Updates to financial assurances for closure and post closure maintenance costs.

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