LATE REVISIONS

SACRAMENTO COUNTY SANITATION DISTRICT
SACRAMENTO REGIONAL WASTEWATER TREATMENT PLANT
SACRAMENTO COUNTY

Proposed Waste Discharge Requirements Renewal and Time Schedule Order
(NPDES No. CA0077682)
Regional Water Quality Control Board, Central Valley Region
Board Meeting – 9 December 2010
ITEM # 6

1. ***NPDES Permit. Modify the third paragraph of section II.B. of the Limitations and Discharge Requirements as shown in underline/strikeout format below:***

   As part of Waste Discharge Requirements (WDR) Order No. 98-087, a corrective action program (CAP) was initiated by the Discharger. The CAP is to address elevated constituent concentrations that were observed in samples from groundwater monitoring wells down gradient of the Dedication Land Disposal areas (DLDs) and the Class III landfill when compared to upgradient groundwater monitoring wells. Extraction wells are used for hydraulic control of the site. Characterization of the groundwater aquifer is documented in the reports submitted twice annually pursuant to WDR Order No. 98-087. The Discharger conveys the extracted groundwater from the CAP extraction wells, estimated at approximately 1.0 MGD, to the Facility effluent channel downstream of the secondary clarifiers and upstream of the plant chlorination station or onsite constructed wetlands. Discharging water from the CAP system downstream of the secondary clarifiers is acceptable and does not decrease the amount of treatment as the treatment processes upstream of this discharge point are not designed for removal of the CAP discharge constituents of concern. Furthermore, based on the extracted groundwater sampling, estimates of CAP discharge constituent concentrations are either below current Facility effluent concentrations or do not have a reasonable potential to violate water quality objectives in the receiving water. Based on these considerations, the Board finds disposal of CAP discharge as described above to be acceptable.

2. ***NPDES Permit. Modify section V.A.15.c. of the Limitations and Discharge Requirements as shown in underline/strikeout format below:***

   c. The discharge shall not cause the receiving water surface temperature to increase more than 4^{o}F above the ambient temperature of the receiving water at any ~~tiem~~ time or place outside the initial zone of dilution.

3. ***NPDES Permit. Modify section VI.C.1.c. of the Limitations and Discharge Requirements as shown in underline/strikeout format below:***

   c. Pollution Prevention. This Order requires the Discharger prepare pollution prevention plans following CWC section 13263.3(d)(3) for ~~salinity~~ ammonia and mercury. Based on a review of the pollution prevention plans, this Order may be reopened for addition and/or modification of effluent limitations and requirements for these constituents

4. NPDES Permit. Modify section VI.C.2.c. of the Limitations and Discharge Requirements as shown in underline/strikeout format below:

c. Pollution *Hyalella azteca* Study. The Discharger shall submit a workplan and time schedule for Executive Officer approval to conduct a study to develop procedures for conducting whole effluent toxicity (WET) testing using *Hyalella azteca* as the test species. The procedures shall result in WET testing that will provide an evaluation of both the acute and chronic toxicity of the discharge. The study should develop procedures that build upon existing research of WET testing using *Hyalella azteca* and shall recommend monitoring frequencies that result in an effective evaluation of the discharge (e.g., monitoring conducted when pyrethroid pesticides may be prevalent in the discharge). The workplan shall be implemented upon approval by the Executive Officer.

Task	Compliance Date
i. Submit Workplan and Time Schedule	90 days from Adoption Date of this Order
ii. Begin Study	To be determined in Task i.
iii. Complete Study	To be determined in Task i.
iv. Submit Study Report	To be determined in Task i.
v. Full Implementation of WET testing using *Hyalella azteca*	To be determined ~~in~~ based on Study Report~~, or by two years from the Adoption Date of this Order, whichever is sooner~~.

5. NPDES Permit. Modify footnotes 1 and 13 for Total Chlorine Residual and Turbidity in Table E-3a (Effluent Monitoring) of the Monitoring and Reporting Program as shown in underline/strikeout format below:

1 Beginning 1 December 2011, ~~T~~total chlorine residual must be monitored with a method sensitive to and accurate at the permitted level of 0.01 mg/L. Report the magnitude and duration of all non-zero chlorine residual events within the reporting period.

13 Continuous effluent turbidity monitoring is required effective **1 December 2020** or upon compliance with Special Provisions VI.C.6.a, whichever is sooner. Upon compliance with Special Provisions VI.C.6.a. of the Permit, location for measurement of effluent turbidity may change due to change in disinfection systems.

6. NPDES Permit. Modify the footnote 1 in Table E-3b (Effluent Monitoring) of the Monitoring and Reporting Program as shown in underline/strikeout format below:

1 -Monthly sampling for the 2013~~2~~ calendar year and every other calendar year thereafter. These samples should be taken during the same time that monthly receiving water samples are taken for the Coordinated Monitoring Program (CMP)

7. NPDES Permit. Modify section V.A.2. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

2. *Sample Types* –The effluent shall be taken at the effluent monitoring location EFF-001. If the flow-through bioassay is not available for use, static renewal testing may be used. For static renewal testing, the samples shall be flow proportional 24-hour composites samples and shall be representative of the volume and quality of the discharge.

8. NPDES Permit. Modify section V.B.7. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

7. *Dilutions* – The chronic toxicity testing shall be performed using the dilution series identified in the table, below. The receiving water control (RSWU-001) shall be used as the diluent (unless the receiving water is toxic). If the receiving water is toxic, lab control water may be substituted as the diluent.

9. NPDES Permit. Modify first paragraph of section V.D.1. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

1. Chronic WET Reporting. Regular chronic toxicity monitoring results shall be reported to the Central Valley Water Board within ~~30~~45 days following completion of the test, and shall contain, at minimum:

10. NPDES Permit. Modify section VI.A.1. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

1. The Discharger shall monitor **diverted influent or treated effluent** at the ~~each~~ Emergency Storage Basins, when wastewater is present, as follows:

Table E-5. Land Discharge Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
~~Flow~~	~~MG~~	~~Level~~	~~Daily~~	
Reason for Diversion	--	Narrative	--	
Duration of Diversion	hours	Narrative	Per each intermittent diversion event	
Description (Influent or Effluent)	--	Narrative	Per each intermittent diversion event	
Freeboard	0.1 feet	Measured	Weekly	

11. NPDES Permit. Modify footnote 1 in Table E-6b (Receiving Water Monitoring Requirements – Monitoring Location RSWU-001) of the Monitoring and Reporting Program as shown in underline/strikeout format below:

1 Monthly sampling for the 2013~~2~~ calendar year and every other calendar year thereafter. These samples should be taken during the same time that monthly receiving water samples are taken for the Coordinated Monitoring Program (CMP).

12. NPDES Permit. Modify sections X.D.5.a.i. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

i. A summary of analytical results from representative, flow proportioned, 24-hour composite sampling of the Publicly Owned Treatment Works (POTW's) influent and effluent for those pollutants USEPA has identified under section 307(a) of the CWA which are known or suspected to be discharged by nondomestic users. This will consist of an annual full priority pollutant scan, with quarterly samples analyzed only for those pollutants detected in the full scan. The Discharger is not required to sample and analyze for asbestos. ~~Sludge shall be sampled during the same 24-hour period and analyzed for the same pollutants as the influent and effluent sampling and analysis. The sludge analyzed shall be a composite sample of a minimum of 12 discrete samples taken at equal time intervals over the 24-hour period. Wastewater and sludge sampling and analysis shall be performed at least annually. The Discharger shall also provide any influent, effluent or sludge monitoring data for nonpriority pollutants which the Discharger believes may be causing or contributing to interference, pass through, or adversely impacting sludge quality.~~ Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto.

13. NPDES Permit. Modify sections III.E.3. of the Monitoring and Reporting Program as shown in underline/strikeout format below:

3. Corrective Action Program (CAP). During the 1990's the groundwater beneath the DLDs were found to be impacted by elevated concentrations of nitrates, chlorides and total dissolved solids (TDS). To mitigate the impacted groundwater, the Class III landfill that took grit and screenings was closed and the DLDs were either lined or closed. The District implemented a Corrective Action Program in December 1995 to remediate the impacted groundwater and it consisted of extraction wells down gradient of the DLDs. The extraction wells keep the groundwater from migrating off the Facility site. The groundwater is discharged downstream of the secondary clarifiers of the WWTP where it continues through the remaining treatment processes and discharged to the Sacramento River or to the onsite constructed ~~W~~wetlands. The CAP is operational and is regulated under Order No. R5-2003-0076, Sacramento Regional County Sanitation District Biosolids and Solids Storage and Disposal Facilities

14. NPDES Permit. Modify section VII.B.1.b. of the Fact Sheet as shown in underline/strikeout format below:

b. Pollution Prevention. This Order requires the Discharger prepare pollution prevention plans following CWC section 13263.3(d)(3) for ~~salinity~~ ammonia and mercury. This reopener provision allows the Central Valley Water Board to reopen this Order for addition and/or modification of effluent limitations and requirements for these constituents based on a review of the pollution prevention plans