

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-_____

FOR
WOODLAND-DAVIS CLEAN WATER AGENCY
DAVIS WOODLAND REGIONAL WATER TREATMENT FACILITY
YOLO COUNTY

The Monitoring and Reporting Program (MRP) describes requirements for monitoring the raw water, solids drying beds, wastewater, and solids disposal. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain of custody form. Field test instruments (such as those used to measure pH and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;
3. The instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

Analytical procedures shall comply with the methods and holding times specified in the following: *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater* (EPA); *Test Methods for Evaluating Solid Waste* (EPA); *Methods for Chemical Analysis of Water and Wastes* (EPA); *Methods for Determination of Inorganic Substances in Environmental Samples* (EPA); *Standard Methods for the Examination of Water and Wastewater* (APHA/AWWA/WEF); and *Soil, Plant and Water Reference Methods for the Western Region* (WREP 125). Approved editions shall be those that are approved for use by the United States Environmental Protection Agency or the California Department of Public Health's Environmental Laboratory Accreditation Program. The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than the applicable water quality objectives for the constituents to be analyzed.

Monitoring reports must be submitted monthly, even if the facility has not yet been constructed or is operational. If the facility is not yet operational, then there is no need to conduct the monitoring described below; however, the monitoring reports must contain the information listed in the "Reporting" section of this MRP.

RAW WATER MONITORING

The Discharger shall establish permanent monitoring stations within the water treatment plant as needed to ensure that all samples are representative. At a minimum, the Discharger shall monitor the raw water as follows:

Constituent/Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Flow	gpd	Meter observation	daily	monthly
Total Dissolved Solids	mg/L	grab	annually	annually
Nitrate as Nitrogen	mg/L	grab	annually	annually
Ammonia as Nitrogen	mg/L	grab	annually	annually
Sodium	mg/L	grab	annually	annually
Chloride	mg/L	grab	annually	annually
Dissolved Iron ¹	mg/L	grab	annually	annually

¹ Sample shall be filtered through a 0.45-micron filter prior to preservation.

SOLIDS DRYING BED MONITORING

The solids drying beds shall be monitored as follows. Freeboard shall be measured vertically from the surface of the pond water to the lowest elevation of the surrounding berm and shall be measured to the nearest 0.1 feet.

Constituent/Parameter	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Influent Flow ¹	gpd	meter reading	daily	monthly
Freeboard	0.1 feet	staff gage	weekly	monthly
pH	Std. Units	grab	weekly	monthly

¹ Report as total daily flow to each drying bed.

WASTEWATER MONITORING

One sample of decant water from each solids drying beds shall be monitored, as follows:

Constituent/Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
Total Dissolved Solids	mg/L	grab	quarterly ¹	monthly
Nitrate as Nitrogen	mg/L	grab	quarterly ¹	monthly
Ammonia as Nitrogen	mg/L	grab	quarterly ¹	monthly
Dissolved Iron ²	mg/L	grab	quarterly ¹	monthly

¹ Quarterly monitoring results shall be reported in the monthly monitoring reports for the months during which sampling occurs.

² Sample shall be filtered through a 0.45-micron filter prior to preservation.

SOLIDS DISPOSAL MONITORING

The Discharger shall implement the *Solids Management Plan* required by Provision E.1.a. The Discharger shall keep records regarding all solids disposal activities. For each discrete quantity of solids removed from the facility, the record shall contain the following information:

1. Date;
2. Name and signature of the recorder of the entry;
3. Volume or weight of solids removed;
4. Transport method;
5. Name of the hauling company;
6. Name and address of permitted disposal site;
7. Analytical results for any solids monitoring conducted at the request of the disposal facility.

The records shall also indicate steps taken to reduce odor and other nuisance conditions. Records shall be stored onsite and available for review during inspections. A summary of the solids disposal activities for the calendar year shall be submitted as part of the Annual Monitoring Report.

REPORTING

All monitoring reports should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to:

centralvalleysacramento@waterboards.ca.gov

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email.

Attention: Compliance/Enforcement Section
Davis Woodland Regional Water Treatment Facility
Woodland-Davis Clean Water Agency
Yolo County
Place ID: 807811

Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
ECM Mailroom
11020 Sun Center Drive, Suite 200
Rancho Cordova, California 95670

Please include a transmittal sheet that includes the following:

Attention: Compliance/Enforcement Section
Davis Woodland Regional Water Treatment Facility
Woodland-Davis Clean Water Agency
Yolo County
Place ID: 807811

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, groundwater), sampling location, and the reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all groundwater monitoring reports shall be prepared under the direct supervision of a California-registered professional and signed by the registered professional.

A. Monthly Monitoring Reports

Daily, weekly, and monthly monitoring data shall be reported in the monthly monitoring report. Monthly reports shall be submitted to the Central Valley Water Board on the **1st day of the second month following sampling** (i.e., the January report is due by 1 March).

If the facility is not yet operational, then the monthly monitoring report shall describe the status of construction and provide the anticipated date of beginning operations.

Once the facility begins operating, the reports shall include the following minimum information:

1. Tabulated raw water flow monitoring data for the month.
2. Tabulated solids drying bed monitoring data for the month, including total flow during the calendar month and cumulative annual flow to date for each drying bed.
3. Tabulated wastewater monitoring data. The Discharger shall establish a quarterly sample schedule for wastewater monitoring such that samples are obtained approximately every three months. Quarterly monitoring results shall be reported in the monthly monitoring report for the months during which sampling occurs.
4. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements.
5. If requested by staff, copies of laboratory analytical report(s).

6. The most recent calibration log sheet(s) verifying calibration of any field monitoring instruments (e.g., DO and pH meters) used to obtain data.

C. Annual Report

An Annual Report shall be submitted to the Central Valley Water Board by **1 February** of each year.

If the facility is not yet operational, then the Annual Report shall describe the status of construction and provide the anticipated date of beginning operations.

Once the facility begins operating, the Annual Report shall present a summary of all monitoring data obtained during the previous calendar year, and shall include the following.

1. Tabulated raw water monitoring data.
2. An evaluation of the wastewater quality and comparison to the raw water quality. Determination of whether the results reveal a previously undetected threat to water quality or indicate a change in waste character such that the discharge poses a threat to water quality. This shall be determined by comparing the annual average concentration of the effluent quality during the calendar year to the corresponding concentration of the raw water.
3. A narrative description and summary of solids management and disposal practices.
4. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
5. An evaluation of the performance of the treatment facility, including discussion of capacity issues, system problems, and a forecast of the flows anticipated in the next year.
6. A discussion of the following:
 - a. Waste constituent reduction efforts implemented in accordance with any required workplan;
 - b. Other treatment or control measures implemented during the calendar year either voluntarily or pursuant to the WDRs, this MRP, or any other Order;
 - c. Based on monitoring data, an evaluation of the effectiveness of the treatment or control measures implemented to date.
7. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

A letter transmitting the self-monitoring reports shall accompany each report. The letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.

The Discharger shall implement the above monitoring program as of the date of this Order.

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)

LLA: 051715