

STATE WATER RESOURCES CONTROL BOARD

MONITORING AND REPORTING PROGRAM FOR  
WATER QUALITY ORDER NO. 2000 - 03  
NPDES PERMIT NO. CA0022764

THE CITY OF SANTA ROSA,  
LAGUNA SUBREGIONAL WASTEWATER COLLECTION,  
TREATMENT, CONVEYANCE, REUSE, AND DISPOSAL FACILITIES

SONOMA COUNTY

MONITORING

Composite samples may be taken by a proportional sampling device approved by the North Coast Regional Water Quality Control Board (Regional Water Board) Executive Officer or by grab samples composited in proportion to flow. In compositing grab samples, the sampling interval shall not exceed one hour. Influent sampling locations will be at locations approved by the Executive Officer.

Monitoring Influent - Laguna Wastewater Treatment Plant

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
BOD (20°C, 5-day)	mg/L	24-hour Composite	Twice Weekly
Nonfilterable Residue	mg/L	24-hour Composite	Daily
Flow (Mean and Peak)	mgd	Continuous	Daily
Priority Pollutants <sup>1</sup>	--	---	Quarterly

Monitoring Discharge from the Laguna Wastewater Treatment Plant

Samples are to be taken after disinfection. These monitoring requirements apply to discharge point 015.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
BOD (20°C, 5-day)	mg/L	24-hour Composite	Twice Weekly
Nonfilterable Residue	mg/L	24-hour Composite	Daily
Hydrogen Ion	pH	Grab	Daily
Total Coliform Organisms	MPN/100 ml	Grab	Daily
Mean Daily Flow	mgd	Continuous	Daily
Turbidity	NTU	Continuous	Daily
Priority Pollutants <sup>1</sup>	--	-----	Quarterly

<sup>1</sup> The constituents, units, type of sample, sampling frequency and analytical methods are described in Provision F.4 of this Permit. In addition, dewatered sludge shall be sampled for the same constituents during the same time period as the influent and effluent sampling. These time periods for influent, effluent and sludge sampling are more fully described in Provision F.5, Quarterly Reporting Requirements of this Permit. A listing of these constituents is included in Appendix 1 of this Permit. In addition, U.S. EPA Method 8260A may be used for the analysis of purgeable organic compounds.

Monitoring Discharge to Receiving Waters

These monitoring requirements apply to discharge points 001 through 015, not including discharge points 006A, 006B, 012A and 012B, when there is a discharge to a receiving water. Each point of discharge shall be monitored for all of the constituents listed below during any discharge event.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
BOD (20°C, 5-day)	mg/L	Grab	Weekly
Nonfilterable Residue	mg/L	Grab	Weekly
Dissolved Oxygen	mg/L	Grab	Weekly
Hydrogen Ion	pH	Grab	Weekly
Turbidity	NTU	Grab	Weekly
Conductivity	umhos/cm (@ 77°F)	Grab	Weekly
Temperature	°F	Continuous	Daily
Ammonia Nitrogen	mg/L	Grab	Weekly
Unionized Ammonia	mg/L	Calculation	Weekly
Nitrate Nitrogen	mg/L	Grab	Weekly
Organic Nitrogen	mg/L	Grab	Weekly
Total Phosphorus	mg/L	Grab	Weekly
Acute Toxicity Bioassay <sup>2</sup> 96 Hour,	%Survival	Grab	Monthly
Flow <sup>3</sup>	mgd	Continuous	Daily
Copper	ug/l	Grab	Monthly
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab	Monthly

These monitoring requirements apply to discharge points 006A, 006B, 012A and 012B when there is a discharge to a receiving water. Each point of discharge shall be monitored for all of the constituents listed below during any discharge event.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
BOD (20°C, 5-day)	mg/L	Grab	Weekly
Nonfilterable Residue	mg/L	Grab	Weekly
Dissolved Oxygen	mg/L	Continuous	Two Weeks per Month
Hydrogen Ion	pH	Continuous	Two Weeks per Month
Turbidity	NTU	Continuous	Two Weeks per Month
Conductivity	umhos/cm (@ 77°F)	Continuous	Two Weeks per Month
Temperature	°F	Continuous	Two Weeks per Month
<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Ammonia Nitrogen	mg/L	Grab	Weekly

<sup>2</sup> The rainbow trout, *Oncorhynchus mykiss*, shall be used as the test fish and test temperature shall be maintained at 12°C plus or minus 2°C.

<sup>3</sup> The permittee is to report the discharge dilution rate based on the Russian River flow volume and the summation for all discharge points. Russian River flow shall be monitored according the measurement at Hacienda Bridge (USGS Gauge No. 11-46700.00).

Unionized Ammonia	mg/L	Calculation	Weekly
Nitrate Nitrogen	mg/L	Grab	Weekly
Organic Nitrogen	mg/L	Grab	Weekly
Total Phosphorus	mg/L	Grab	Weekly
Copper	ug/l	Grab	Monthly
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab	Monthly
Priority Pollutants <sup>4</sup>	--	Grab	Quarterly
Acute Toxicity Bioassay <sup>2</sup>			
96 Hour,	%Survival	Grab	Monthly
Chronic Toxicity Bioassay <sup>5</sup>		Grab	Quarterly
Flow <sup>3</sup>	mgd	Continuous	Daily

Monitoring Receiving Waters

Samples shall be taken upstream and downstream of the point of discharge, at locations approved by the Executive Officer. These monitoring requirements apply to discharge points 001 through 015, not including discharge points 006A, 006B, 012A and 012B, when there is a discharge to a receiving water.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Ammonia Nitrogen	mg/L	Grab	Weekly
Nitrate Nitrogen	mg/L	Grab	Weekly
Organic Nitrogen	mg/L	Grab	Weekly
Total Phosphorus	mg/L	Grab	Weekly
Copper	ug/l	Grab	Monthly
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab	Monthly

Samples shall be taken upstream and downstream of the point of discharge, at locations approved by the Executive Officer. These monitoring requirements apply to discharge points 006A, 006B, 012A and 012B, when there is a discharge to a receiving water.

<sup>4</sup> These constituents are shown in Appendix 1 of this Permit. The time periods for this monitoring are defined in provision F. 5. of this permit. In addition, the sampling locations for these priority pollutants will be discharge points 006A & B and 012A & B or as modified by the Executive Officer. U. S. EPA Method 8260A may be used for the analysis of purgeable organic compounds.

<sup>5</sup> This monitoring shall apply only to discharge points 006A & B and 012A & B or as modified by the Executive Officer. The test organisms, test duration and test endpoint shall be as specified by the Executive Officer.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Dissolved Oxygen	mg/L	Continuous	Two Weeks per Month
Hydrogen Ion	pH	Continuous	Two Weeks per Month
Turbidity	NTU	Continuous	Two Weeks per Month
Temperature	°F	Continuous	Two Weeks per Month
Conductivity	umhos/cm (@ 77°F)	Continuous	Two Weeks per Month
Ammonia Nitrogen	mg/L	Grab	Weekly
Nitrate Nitrogen	mg/L	Grab	Weekly
Organic Nitrogen	mg/L	Grab	Weekly
Total Phosphorus	mg/L	Grab	Weekly
Copper	ug/l	Grab	Monthly
Hardness (as CaCO <sub>3</sub> )	mg/l	Grab	Monthly

Monitoring the Waste Treatment/Storage/Disposal Mass Water Balance

The permittee shall determine daily the total volume of wastewater treated, the volume of treated wastewater discharged to receiving waters and the discharge receiving water dilution ratio, the volume of treated wastewater irrigated on City property, the volume of treated wastewater irrigated by contract users, and the volume of wastewater in each storage pond and remaining storage capacity for each storage pond with a projection in days of total storage capacity remaining based on current operation evaluation. Increases in the wastewater flows and resultant storage capacity required due to infiltration/inflow and also direct rainfall shall also be determined. Storage volume decreases due to evaporation/percolation shall be determined every ten days.

Monitoring Irrigation Capacity

The City shall by 15 April each year submit written documentation to the Executive Officer showing the Laguna Treatment Plant's irrigation capacity. If the Executive Officer deems that irrigation capacity is less than 4,062 million gallons per year, the Executive Officer shall reduce the permitted mean daily dry weather flow of waste into the Laguna Treatment Plant commensurate with the reduced irrigation capacity. The Executive Officer shall inform the City in writing of any such reduction of the permitted mean daily dry weather flow.

Monitoring Storm Water

Visual observations shall be conducted and samples shall be collected and analyzed in compliance with the Storm Water Monitoring Plan developed by the permittee as described in Finding 30 and 31 of this Permit. The results of all observations and analyses shall be reported to the Regional Water Board annually as specified in the Storm Water Monitoring Plan described in Finding 30 and 31 of this Permit.

REPORTING

Monthly monitoring reports shall be submitted to the Regional Water Board for each month by the 15<sup>th</sup> day of the following month. The data shall be summarized in such a manner to illustrate clearly the compliance with waste discharge requirements. During periods of no discharge, the reports shall certify no discharge. Copies of each monitoring report shall be mailed to:

Regional Administrator  
U.S. Environmental Protection Agency  
Attn: WTR-7, NPDES/DMR  
75 Hawthorne Street  
San Francisco, CA 94105.

Annual Report

By February 28 of each year, the permittee shall submit an annual report to the Regional Water Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the permittee shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the Permit. If the permittee monitors any pollutant more frequently than required by this Permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

Annually, prior to commencement of the normal irrigation season, the permittee shall submit to the Regional Water Board a report that includes a map that clearly shows where reclaimed water will be used, the name of the user(s), and the acreage involved. In addition, when new users are added to the system, the permittee shall notify the Regional Water Board of the new users.

CERTIFICATION

The undersigned, Administrative Assistant to the SWRCB, does hereby certify that the foregoing is a full, true, and correct copy of a Monitoring and Reporting Program for an order duly and regularly adopted at a meeting of the State Water Resources Control Board held on March 15, 2000.

AYE: James M. Stubchaer  
Arthur G. Baggett, Jr.  
Mary Jane Forster  
John W. Brown

NO: None

ABSENT: None

ABSTAIN: None

/s/  
Maureen Marché  
Administrative Assistant to the Board