

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 00-002  
FOR  
CITY OF CALIPATRIA, OWNER  
SOUTHERN CALIFORNIA WATER COMPANY, OPERATOR  
MUNICIPAL WASTEWATER TREATMENT PLANT  
Calipatria - Imperial County

Location of Discharge: SW ¼ of Section 6, T12S, R14E, SBB&M

MONITORING

1. The collection, preservation and holding times of all samples shall be in accordance with U.S. Environmental Protection Agency approved procedures. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
2. If the facility is not in operation, or there is no discharge during a required reporting period, the discharger shall forward a letter to the Regional Board indicating that there has been no activity during the required reporting period.
3. When time intervals between samples are not specified, samples shall be taken at intervals which adequately represent the report period.

INFLUENT MONITORING

Sampling stations shall be as follows:

<u>Station</u>	<u>Description</u>
S-1	Discharge line from the Calipatria State Prison
S-2	Discharge line from the City of Calipatria

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Station</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/L <sup>1</sup>	24 Hr. Composite	S-1, S-2	Monthly
Total Suspended Solids	mg/L	24 Hr. Composite	S-1, S-2	Monthly
Volatile Organics (EPA Methods 624,625)	µg/L <sup>2</sup>	Grab	S-1	Annually

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<sup>1</sup> mg/L-milligrams per Liter  
<sup>2</sup> µg/L-micrograms per Liter

## EFFLUENT MONITORING

Wastewater discharged into "G" Drain shall be monitored for the following constituents:

<u>Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Chlorine	mg/L	Grab at peak Flow	Daily <sup>4</sup>
Hydrogen Ion (pH)	pH Units	Grab at Peak Flow	Daily <sup>4</sup>
Flow	MGD <sup>3</sup>	-----	Daily <sup>4</sup>
Total Suspended Solids	mg/L	24-Hour Composite	Weekly
20°C BOD <sub>5</sub>	mg/L	24-Hour Composite	Weekly
Settleable Matter	ml/L <sup>5</sup>	Grab at Peak Flow	Weekly
E. Coli	MPN/100 ml <sup>6</sup>	Grab at Peak Flow	Five per Month <sup>7</sup>
Nitrate (As N)	mg/L	Grab at Peak Flow	Monthly
Phosphate (As P)	mg/L	Grab at Peak Flow	Monthly
Volatile Organics (EPA Methods 624,625)	µg/L <sup>8</sup>	Grab	Annually

## RECEIVING WATER MONITORING

All receiving water samples shall be grab samples. Sampling stations shall be as follows:

<u>Station</u>	<u>Description</u>
R-1	Not to exceed 100 feet upstream from the point of discharge to "G" Drain. A greater distance may be acceptable provided the discharger submits proper justification that the prescribed distance is inaccessible.
R-2	Not to exceed 200 feet downstream from the point of discharge to "G" Drain. A greater distance may be acceptable provided the discharger submits proper justification that the prescribed distance is inaccessible.

<u>Constituents</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Station</u>	<u>Sampling Frequency</u>
Dissolved Oxygen	mg/L	Grab	R-1, R-2	Monthly
pH	pH units	Grab	R-1, R-2	Monthly
Temperature	Fahrenheit	Grab	R-1, R-2	Monthly

<sup>3</sup> MGD – Million Gallons-per-Day

<sup>4</sup> Daily-Reported monthly with monthly average daily flow calculated

<sup>5</sup> ml/L – milliliters-per-Liter

<sup>6</sup> MPN – Most Probable Number

<sup>7</sup> Minimum of four days between required samples

<sup>8</sup> µg/L-micrograms per Liter

Hardness mg/L Grab R-1, R-2 Monthly  
 In conducting the receiving water sampling, a log shall be kept of the receiving water conditions at Stations R-1, and R-2. Attention shall be given to the presence or absence of:

- a. Floating or suspended matter
- b. Discoloration
- c. Aquatic life
- d. Visible film, sheen or coating
- e. Fungi, slime, or objectionable growths
- f. Potential nuisance conditions

Notes on receiving water conditions shall be summarized in the monitoring report.

OPERATION AND MAINTENANCE

The discharger shall report the following:

<u>Activity</u>	<u>Units</u>	<u>Reporting</u>
Inspect and document any operation/maintenance problems by inspecting each unit process	---	Annually
Amount of sodium hypochlorite used	Gallons	Daily <sup>9</sup>
Amount of sodium metabisulfite used	Gallons	Daily <sup>10</sup>

SLUDGE MONITORING

The discharger shall report monthly on the quantity, location and method of disposal of all sludge and similar solid materials being produced at the wastewater treatment plant facility.

A representative sample of the sludge that is generated at the treatment facility shall be sampled and analyzed for the following:

<u>Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Arsenic	mg/kg <sup>10</sup>	Composite	Annually
Cadmium	mg/kg	Composite	Annually
Chromium	mg/kg	Composite	Annually
Copper	mg/kg	Composite	Annually
Lead	mg/kg	Composite	Annually
Mercury	mg/kg	Composite	Annually
Molybdenum	mg/kg	Composite	Annually
Nickel	mg/kg	Composite	Annually
Selenium	mg/kg	Composite	Annually
Zinc	mg/kg	Composite	Annually

<sup>9</sup> Daily-Reported monthly with monthly average daily flow calculated  
<sup>10</sup> mg/kg – milligrams per kilogram

Fecal Coliform	Most Probable Number	Composite	Annually
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GROUNDWATER MONITORING

<u>Constituents</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Ground Water Elevation	Feet	Measurement	Monthly

EFFLUENT CHRONIC TOXICITY TESTING

The discharger shall conduct chronic toxicity testing on the effluent as follows:

<u>Test</u>	<u>Units</u>	<u>Type of Samples</u>	<u>Minimum Frequency of Test</u>
Chronic Toxicity	tu <sub>c</sub>	Composite	Quarterly
Acute Toxicity	% Survival	Composite	Quarterly

Both test species given below shall be used to measure chronic toxicity:

<u>Species</u>	<u>Effect</u>	<u>Test (Days)</u>	<u>Duration Reference</u>
Fathead Minnow (Pimephales promelas)	Larval Survival and Growth Rate	7	Horning & Weber, 1989
Water Flea (Ceriodaphnia dubia)	Survival; Number of Young	7	Horning & Weber, 1989

Toxicity Test Reference: Horning W. B. and C. I. Weber (eds). 1989. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organism. Second Edition. U.S. Environmental Protection Agency, Environmental Monitoring Systems Laboratory, Cincinnati, Ohio. EPA/600/4-89/001.

Dilution and control waters should be obtained from an unaffected area of the receiving waters. Standard dilution water should be used if the above source exhibit toxicity greater than 1.0 tu<sub>c</sub>. The sensitivity of the test organism to a reference toxicant shall be determined concurrently with each bioassay and reported with the test results.

Chronic toxicity shall be expressed and reported as toxic units (tu<sub>c</sub>) where:

$$tu_c = 100/NOEL$$

and the No Observed Effect Level (NOEL) is expressed as the maximum percent effluent of test water that causes no observed effect on a test organism, as determined in a critical life stage toxicity test (indicated above).

Acute toxicity shall be calculated from the results of the chronic toxicity test described above and shall be reported along with the results of each chronic test. Acute toxicity shall be expressed as percent survival of test organism over a ninety-six hour period.

## REPORTING

1. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
2. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. The individual(s) who performed the analyses;
  - e. The analytical techniques or method used; and
  - f. The results of such analyses.
3. Monitoring reports shall be certified under penalty of perjury to be true and correct, and shall contain the required information at the frequency designated in this monitoring report.
4. Each report shall contain the following statement:

"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."
5. A duly authorized representative of the discharger may sign the documents if:
  - a. The authorization is made in writing by the person described above;
  - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
  - c. The written authorization is submitted to the Regional Board's Executive Officer.
6. Report immediately any failure in the waste disposal system to the Regional Board's Executive Officer and the Director of the County Environmental Health Department by telephone with follow-up by letter.
7. Report immediately any instances of non-compliance with the requirements of this Board Order in the monthly monitoring report.
8. Daily, weekly, semi-weekly, and monthly monitoring reports shall be submitted by the 15<sup>th</sup> day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.
9. Reports shall be submitted to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

10. A copy of the Monitoring Report shall also be sent to:

Regional Administrator  
U.S. Environmental Protection Agency  
Region 9, Attn: 65/MR, W-3  
75 Hawthorne Street  
San Francisco, CA 94105

Ordered By: original signed by/  
Executive Officer

April 12, 2000  
Date