

**State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-8440
for
CASTAIC LAKE WATER AGENCY
(Three Production Wells Aquifer Testing Project)
(NPDES NO. CAG914001)**

I. REPORTING REQUIREMENTS

- A. The discharger shall implement this monitoring program on the effective date of coverage under this permit. The discharger shall submit monitoring reports to this Regional Board by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January – March	May 15
April – June	August 15
July – September	November 15
October – December	February 15
Annual Summary Report	March 15

- B. The first monitoring report under this Program is due by November 15, 2002. The annual summary report shall contain a discussion of the previous year's effluent monitoring data, as well as graphical and tabular summaries of the data. If there is no discharge during any reporting period, the report shall so state.
- C. All monitoring reports shall include discharge limitations in the Order, tabulated analytical data, the chain of custody form, the analytical laboratory report (including, but not limited to: date and time of sampling, date of analyses, method of analysis, and detection limits), and discharge certification statement.
- D. Before commencing a new discharge, a representative sample of the effluent shall be collected and analyzed for all the constituents listed in Section F.1. and Attachment B of Order No. R4-2002-0107. The test results must meet all applicable discharge limitations.

II. SAMPLE COLLECTION REQUIREMENTS

- A. Daily samples shall be collected each day.
- B. Weekly samples shall be collected on a representative day of each week.
- C. Monthly samples shall be collected on a representative day of each month.
- D. Quarterly samples shall be collected in February, May, August, and November.
- E. Semi-annual samples shall be collected in May and November.
- F. Annual samples shall be collected in November.

III. EFFLUENT MONITORING REQUIREMENTS

- A. Sampling station(s) shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. The discharger shall notify this Regional Board in writing of the location(s) of the sampling stations once established. Provisions shall be made to enable visual inspection before discharge. If oil sheen, debris, and/or other objectionable materials or odors are present, discharge shall not be commenced before compliance with the requirements is demonstrated. All visual observations shall be included in the monitoring report.
- B. If monitoring results indicate an exceedance of a limit contained in Order R4-2002-0107, the discharge shall be terminated and shall only be resumed after remedial measures have been implemented and full compliance with the requirements has been ascertained.
- C. In addition, as applicable, following an effluent limit exceedance, the discharger shall implement the following accelerated monitoring program:
 - 1. Monthly monitoring shall be increased to weekly monitoring.
 - 2. Quarterly monitoring shall be increased to monthly monitoring, and
 - 3. Semi-annually monitoring shall be increased to quarterly.
 - 4. Annually monitoring shall be increased to semi-annually.

If three consecutive accelerated monitoring events demonstrate full compliance with effluent limits, then, the discharger may return to regular monitoring frequency, with the approval of the Executive Officer of the Regional Board.

- D. The following shall constitute the discharge monitoring program:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Waste Flow	gal/day	totalizer	continuously
Temperature	°F	grab	per discharge event
pH	pH units	grab	per discharge event
Total Suspended Solids	mg/L	grab	per discharge event
Turbidity	mg/L	grab	per discharge event
BOD ₅ @ 20°C	mg/L	grab	per discharge event
Settleable Solids	ml/L	grab	per discharge event
Sulfides	mg/L	grab	per discharge event
Oil and Grease	mg/L	grab	per discharge event
Total Dissolved Solids	mg/L	grab	per discharge event
Sulfate	mg/L	grab	per discharge event

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Chloride	mg/L	grab	per discharge event
Detergents as Methylene Blue Active Substances (MBAS)	mg/L	grab	per discharge event
Boron	mg/L	grab	per discharge event
Nitrogen	mg/L	grab	per discharge event
Residual Chlorine	mg/L	grab	per discharge event
Perchlorate	µg/L	grab	per discharge event
Acetone	µg/L	grab	per discharge event
Acrolein	µg/L	grab	per discharge event
Acrylonitrile	µg/L	grab	per discharge event
Benzene	µg/L	grab	per discharge event
Bromoform	µg/L	grab	per discharge event
Carbon Tetrachloride	µg/L	grab	per discharge event
Chlorobenzene	µg/L	grab	per discharge event
Chlorodibromomethane	µg/L	grab	per discharge event
Chloroethane	µg/L	grab	per discharge event
Chloroform	µg/L	grab	per discharge event
Dichlorobromomethane	µg/L	grab	per discharge event
1,1-Dichloroethane	µg/L	grab	per discharge event
1,2-Dichloroethane	µg/L	grab	per discharge event
1,1-Dichloroethylene	µg/L	grab	per discharge event
1,2-Dichloropropane	µg/L	grab	per discharge event
1,3-Dichloropropylene	µg/L	grab	per discharge event
Ethylbenzene	µg/L	grab	per discharge event
Ethylene dibromide	µg/L	grab	per discharge event
Methyl bromide	µg/L	grab	per discharge event
Methyl chloride	µg/L	grab	per discharge event
Methylene chloride	µg/L	grab	per discharge event
Methyl ethyl ketone	µg/L	grab	per discharge event
Methyl Tertiary Butyl Ether (MTBE)	µg/L	grab	per discharge event
1,1,2,2-Tetrachloroethane	µg/L	grab	per discharge event
Tetrachloroethylene	µg/L	grab	per discharge event
Toluene	µg/L	grab	per discharge event
1,2-trans-Dichloroethylene	µg/L	grab	per discharge event
1,1,1-Trichloroethane	µg/L	grab	per discharge event
1,1,2-Trichloroethane	µg/L	grab	per discharge event
Trichloroethylene	µg/L	grab	per discharge event
Vinyl chloride	µg/L	grab	per discharge event
Xylenes	µg/L	grab	per discharge event

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Di-isopropyl ether (DIPE)	µg/L	grab	annually
1,4-Dioxane	µg/L	grab	annually
Napthalene	µg/L	grab	annually
N-Nitrosodimethyl amine (NDMA)	µg/L	grab	annually
Tertiary butyl alcohol (TBA)	µg/L	grab	annually
Total Petroleum Hydrocarbons	µg/L	grab	annually
Phenols	µg/L	grab	annually
Phenolic Compounds (chlorinated)	µg/L	grab	annually
Acute Toxicity	%survival	grab	annually

IV. EFFLUENT TOXICITY TESTING

- A. The discharger shall conduct acute toxicity tests on 100% effluent grab samples by methods specified in 40 CFR Part 136 which cites USEPA's *Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms*. August 1993, (EPA/600/4-90/027F) or a more recent edition. Submission of bioassay results should include the information noted on pages 71-74 of the EPA/600/4-90/027F document.
- B. The fathead minnow, *Pimephales promelas*, shall be used as the test species for fresh water discharges and the topsmelt, *Atherinops affinis*, shall be used as the test species for brackish discharges. The method for topsmelt is found in USEPA's *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, First Edition, August 1995 (EPA/600/R-95/136).
- C. If the results of the toxicity test yields a survival of less than 90%, then the frequency of analyses shall increase to monthly until at least three test results have been obtained and full compliance with effluent limitations has been demonstrated, after which the frequency of analyses shall revert to annually. Results of toxicity tests shall be included in the first monitoring report following sampling.

V. GENERAL PROVISIONS FOR REPORTING

- A. The discharger shall inform this Regional Board 24 hours before the start of the discharge.
- B. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be provided with the first monitoring report and each time a new and/or renewal is obtained from ELAP.
- C. Samples must be analyzed within allowable holding times as specified in 40 CFR Part 136.3. Proper chain of custody procedures must be followed and a copy shall be submitted with the report.
- D. As required in part I.4 of Order No. R4-2002-0107, the monitoring report shall specify the USEPA analytical method used, the method detection limit, and the minimum level for each pollutant.

VI. NOTIFICATION

- A. The discharger shall notify the Executive Officer in writing prior to discharge of any chemical that may be toxic to aquatic life. Such notification shall include:
 - 1. Name and general composition of the chemical,
 - 2. Frequency of use,
 - 3. Quantities to be used,
 - 4. Proposed discharge concentrations, and
 - 5. EPA registration number, if applicable.

No discharge of such chemical shall be made prior to obtaining the Executive Officer's approval.

- B. The discharger shall notify the Regional Board via telephone and/or fax within 24 hours of noticing an exceedance above the effluent limits in Order No. 97-043. The discharger shall provide to the Regional Board within 14 days of observing the exceedance a detailed statement of the actions undertaken or proposed that will bring the discharge into full compliance with the requirements and submit a timetable for correction.

Mr. Dan Masnada
Castaic Lake Water Agency
(Three Production Wells Aquifer Testing Project)

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VII. MONITORING FREQUENCIES

Monitoring frequencies may be adjusted by the Executive Officer to a less frequent basis if the Discharger requests same and the request is backed by statistical trends of monitoring data submitted.

Ordered by: _____
Dennis A. Dickerson
Executive Officer

Date: July 31, 2002

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