

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

**MONITORING AND REPORTING PROGRAM NO. 7718
for
MAIN SAN GABRIEL BASIN WATERMASTER
(STRATEGIC WELL TESTING AND GROUNDWATER MONITORING PROGRAM)
(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 August 15, 2003. If there is no discharge during any reporting period, the report shall so state. 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, and must be received by March 15, of each year.
- C. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall clearly list all non-compliance with waste discharge requirements, as well as all excursions of effluent limitations.
- D. 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.
- E. Before commencing a new discharge, a representative sample of the effluent shall be obtained and analyzed for toxicity, and all the constituents listed on Part F. of Order No. R4-2002-0107. The test results must meet all applicable discharge limitations. [This requirement is not applicable for an existing discharge.]

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 stations 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 result indicates 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 the 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 the regular monitoring frequency, with the approval of the Executive Officer of the Regional Board.

D. The following shall constitute the discharge monitoring program for each Outfall location:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total Waste Flow	gal/day	recorder	continuously
Temperature	°F	grab	once per discharge event
pH	pH units	grab	once per discharge event
Total Dissolved Solids	mg/L	grab	once per discharge event
Sulfate	mg/L	grab	once per discharge event
Chloride	mg/L	grab	once per discharge event
Boron	mg/L	grab	once per discharge event
Nitrogen	mg/L	grab	once per discharge event
Total Suspended Solids	mg/L	grab	once per discharge event
Turbidity	mg/L	grab	once per discharge event
BOD ₅ 20°C	mg/L	grab	once per discharge event
Oil and Grease	mg/L	grab	once per discharge event
Settleable Solids	ml/L	grab	once per discharge event
Sulfides	mg/L	grab	once per discharge event
Phenols	mg/L	grab	once per discharge event
Residual Chlorine	mg/L	grab	once per discharge event
Tetrachloroethylene	µg/L	grab	()
Benzene	µg/L	grab	()
Ethylbenzene	µg/L	grab	()
Methyl Tertiary Butyl Ether	µg/L	grab	()
Toluene	µg/L	grab	()
Xylenes	µg/L	grab	()
Lead	µg/L	grab	()
Naphthalene	µg/L	grab	()
Tertiary butyl alcohol (TBA)	µg/L	grab	()
Total Petroleum Hydrocarbons	µg/L	grab	()
Carbon Tetrachloride	µg/L	grab	()
Chloroform	µg/L	grab	()
1,1-Dichloroethane	µg/L	grab	()
1,2-Dichloroethane	µg/L	grab	()

¹ Minimum frequency of analyses shall be hourly for the first four hours of discharge, with the first sample taken before 10 (ten) minutes have elapsed into the pump test. After the first four hours, collection of hourly water samples will be continued if the contaminant concentration of the discharged water exceeds the discharge limits. If the contaminant concentration does not exceed the effluent limitations, water samples at the wellhead will be collected at four-hour intervals. The frequencies may be modified by the Executive Officer if the monitoring results warrant. The following samples shall be delivered immediately to a stationary laboratory for immediate analysis:

- a. Wellhead samples for aquifer performance test (APT);
- b. Samples from wellheads without prior VOC data; and
- c. Initial discharge samples for all wellheads (APT and non-APT).

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
1,1-Dichloroethylene	µg/L	grab	(1)
1,4-Dioxane	µg/L	grab	(1)
N-Nitrosodimethyl amine (NDMA)	µg/L	grab	(1)
Perchlorate	µg/L	grab	(1)
1,1,1-Trichloroethane	µg/L	grab	(1)
Trichloroethylene	µg/L	grab	(1)
Vinyl Chloride	µg/L	grab	(1)
Acetone	µg/L	grab	(1)
Acrolein	µg/L	grab	(1)
Acrylonitrile	µg/L	grab	(1)
Bromoform	µg/L	grab	(1)
Chlorobenzene	µg/L	grab	(1)
Chlorodibromomethane	µg/L	grab	(1)
Chloroethane	µg/L	grab	(1)
Dichlorobromomethane	µg/L	grab	(1)
1,2-Dichloropropane	µg/L	grab	(1)
1,3-Dichloropropylene	µg/L	grab	(1)
Methyl bromide	µg/L	grab	(1)
Methyl chloride	µg/L	grab	(1)
Methylene chloride	µg/L	grab	(1)
Methyl ethyl ketone (MEK)	µg/L	grab	(1)
1,1,2,2-Tetrachloroethane	µg/L	grab	(1)
1,2-Trans-dichloroethylene	µg/L	grab	(1)
1,1,2-Trichloroethane	µg/L	grab	(1)
Ethylene Dibromide	µg/L	grab	(1)
Di-isopropyl ether (DIPE)	µg/L	grab	(1)
Acute Toxicity	%survival	grab	annually

IV. EFFLUENT TOXICITY TESTING

- A. The discharger shall conduct acute toxicity testing 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 and Receiving Water to Freshwater and Marine Organisms, October 2002, (EPA/821-R-02-012) or a more recent edition. Submission of bioassay results should include the information noted on pages 109-113 of the EPA/821-R-02-012 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 Marine and Estuarine Organisms, Third Edition, October 2002, (EPA/821-R-02-014).

- 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. RECEIVING SURFACE WATER MONITORING

- A. Downstream monitoring sampling stations, including a control station, shall be as established in the July 1996 Report of Waste Discharge and updates thereto, for each point of discharge to surface waters. The following shall constitute the downstream monitoring program:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Nitrogen	mg/L	grab	once per discharge event
Tetrachloroethylene	µg/L	grab	(²)
Trichloroethylene	µg/L	grab	(²)
Carbon Tetrachloride	µg/L	grab	(²)
1,1-Dichloroethane	µg/L	grab	(²)
1,2-Dichloroethane	µg/L	grab	(²)
1,1-Dichloroethylene	µg/L	grab	(²)
cis-1,2-Dichloroethylene	µg/L	grab	(²)
trans-1,2-Dichloroethylene	µg/L	grab	(²)
1,1,1-Trichloroethane	µg/L	grab	(²)
1,1,2-Trichloroethane	µg/L	grab	(²)
Vinyl Chloride	µg/L	grab	(²)
Methylene chloride	µg/L	grab	(²)

² If the wellhead discharge concentration exceeds effluent limitations, then samples shall be taken every 2 (two) hours for APT tests and ever 1.5 hours for non-APT tests. The initial sample shall be taken before 10 (ten) minutes have elapsed from the time of concentration (time at which overland flow from discharge point reaches the downstream sampling station.) The following downstream station samples shall be delivered immediately to a stationary laboratory for immediate analysis:

- a. All samples from APT tests;
- b. Downstream samples from wellheads without prior VOC data; and
- d. Downstream station samples for non-APT tests for wellheads with discharges exceeding effluent limitations.

VI. 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 time 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.

VII. 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. R4-2002-0107. 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.

VIII. 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: May 20, 2003

/ttw