

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. 8034
for
CITY OF REDONDO BEACH
(SEASIDE LAGOON)
(CA0064297)**

I. Reporting Requirements

- A. The City of Redondo Beach, (hereinafter Redondo Beach or Discharger) shall implement this monitoring program for Seaside Lagoon Facility (Lagoon or Facility) on the effective date of this Order. All monitoring reports must be received by the Regional Board by the dates in the following schedule. All monitoring reports should be addressed to the Regional Board, Attention: Information Technology Unit. The first monitoring report under this Program is due by August 1, 2005.

Reporting Period	Report Due
Start of Operation – June 30	August 1
July 1 – July 31	September 1
August 1 – End of Operation	October 1
Annual Summary Report	October 1 of each year

Monitoring reports for off-season discharges shall be submitted 45 days after sampling.

If there is no discharge during any reporting period, the report shall so state.

- B. The Discharger shall submit an annual summary report, containing a discussion of the previous year's effluent and receiving water monitoring data, as well as graphical and tabular summaries of the data. The data shall be submitted to the Regional Board on hard copy and on a 3 ½ " computer diskette. Submitted data must be IBM compatible, preferably using EXCEL software. This annual report is to be received by the Regional Board by October 1 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. The Discharger shall inform the Regional Board well in advance of any proposed construction activity that could potentially affect compliance with applicable requirements.

II. Effluent Monitoring Requirements

- A. A sampling station shall be established at the point of discharge. The sampling station shall be located where representative samples of that effluent can be obtained.
- B. This Regional Board shall be notified in writing of any change in the sampling stations once established or in the methods for determining the quantities of pollutants in the individual waste streams.
- C. Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136.3, 136.4, and 136.5 (revised May 14, 1999); or, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board. Laboratories analyzing effluent samples and receiving water samples shall be certified by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer and must include quality assurance/quality control (QA/QC) data in their reports. A copy of the laboratory certification shall be provided each time a new certification and/or renewal of the certification is obtained from ELAP.

The monitoring reports shall specify the analytical method used, the Method Detection Limit (MDL), and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:

1. An actual numerical value for sample results greater than or equal to the ML; or,
2. "Detected, but Not Quantified (DNQ)" if results are greater than or equal to the laboratory's MDL but less than the ML; or,
3. "Not-Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

Current MLs (Attachment B) are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California, March 2, 2000*.

- D. Where possible, the MLs employed for effluent analyses shall be lower than the permit limitations established for a given parameter. If the ML value is not below the effluent limitation, then the lowest ML value and its associated analytical method shall be selected for compliance purposes. At least once a year, the Discharger shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.

The Regional Board, in consultation with the State Board Quality Assurance Program, shall establish a ML that is not contained in Attachment B to be included in the Discharger's permit in any of the following situations:

1. When the pollutant under consideration is not included in Attachment B;
 2. When the Discharger and Regional Board agree to include in the permit a test method that is more sensitive than that specified in 40 CFR Part 136 (revised May 14, 1999);
 3. When the Discharger agrees to use an ML that is lower than that listed in Attachment B;
 4. When the Discharger demonstrates that the calibration standard matrix is sufficiently different from that used to establish the ML in Attachment B, and proposes an appropriate ML for their matrix; or,
 5. When the Discharger uses a method whose quantification practices are not consistent with the definition of an ML. Examples of such methods are the U.S. EPA-approved method 1613 for dioxins and furans, method 1624 for volatile organic substances, and method 1625 for semi-volatile organic substances. In such cases, the Discharger, the Regional Board, and the State Board shall agree on a lowest quantifiable limit and that limit will substitute for the ML for reporting and compliance determination purposes.
- E. For total residual chlorine, if there is no analytical method with a detection level below the effluent limitation, then the most sensitive method must be used. If the sample result is non-detect, the Discharger shall report the results as less than the method detection level and provide the actual detection level achieved.
- F. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR section 136.3. All QA/QC items must be run on the same dates the samples were actually analyzed, and the results shall be reported in the Regional Board format, when it becomes available, and submitted with the laboratory reports. Proper chain of custody procedures must be followed, and a copy of the chain of custody shall be submitted with the report.
- G. All analyses shall be accompanied by the chain of custody, including but not limited to data and time of sampling, sample identification, and name of person who performed sampling, date of analysis, name of person who performed analysis, QA/QC data, method detection limits, analytical methods, copy of laboratory certification, and a perjury statement executed by the person responsible for the laboratory.

- H. For parameters that both monthly average and daily maximum limitations are specified and the monitoring frequency is less than four times a month, the following shall apply. If an analytical result is greater than the monthly average limitation, the Discharger shall collect four additional samples at approximately equal intervals during the month, until compliance with the monthly average limitation has been demonstrated. All five analytical results shall be reported in the monitoring report for that month, or 45 days after results for the additional samples were received, whichever is later. In the event of noncompliance with a monthly average effluent limitation, the sampling frequency for that pollutant shall be increased to weekly and shall continue at this level until compliance with the monthly average effluent limitation has been demonstrated. The Discharger shall provide for the approval of the Executive Officer a program to ensure future compliance with the monthly average limitation.

III. Effluent Monitoring Program

- A. The effluent monitoring program for the discharge of dechlorinated lagoon water through Discharge Serial No. 001 (Latitude 33° 50' 38" and Longitude 118° 23' 47") is described in the Table below.
- B. In addition to monitoring to determine compliance with effluent limitations, the Discharger must monitor the effluent for priority pollutants to determine reasonable potential. Pursuant to the California Water Code, section 13267, the Discharger is required to submit data sufficient for: (1) determining if water quality-based effluent limitations for priority pollutants are required, and (2) to calculate effluent limitations, if required. The *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (March 2, 2000) requires that the Regional Boards require periodic monitoring for pollutants for which criteria or objectives apply and for which no effluent limitations have been established. Accordingly, the Regional Board is requiring that the Discharger monitor the effluent for the priority pollutants listed in Section VI. The results of monitoring for reasonable potential determination shall be submitted in accordance with Section I.A of this Monitoring and Reporting Program.
- C. The effluent monitoring program for the discharge of dechlorinated lagoon water from Discharge Serial No. 001 (Latitude 33° 50' 38"N and Longitude 118° 23' 47"W) is:
 - 1. Regular Season (Memorial Day to Labor Day)

Constituents	Units	Type of Sample	Sampling Frequency
Total Waste Flow	gpd	Estimated	Daily
Total Residual Chlorine ¹	ì g/l	Grab	Weekly
Fecal Coliform	mpn/100 ml	Grab	Weekly
Total Coliform	mpn/100 ml	Grab	Weekly

Constituents	Units	Type of Sample	Sampling Frequency
Enterococcus	mpn/100 ml	Grab	Weekly
pH	S.U.	Grab	Annually
Total Suspended Solids	mg/l	Grab	Monthly
Turbidity	NTU	Grab	Monthly
Temperature	°F	Grab	Annually
Ammonia	mg/l	Grab	Monthly
Oil and grease	mg/l	Grab	Annually
Biochemical Oxygen Demand (BOD ₅ 20°C)	mg/l	Grab	Annually
Priority Pollutants (as listed in Section VI of the MRP)	ì g/l	Grab	Annually
Acute Toxicity	% survival	Grab	Annually

1. If there is no analytical method with a detection level below the effluent limitation, then the most sensitive method must be used. If the sample result is non-detect, the Discharger shall report the results as less than the method detection level and provide the actual detection level achieved.

2. Off-Season

Constituents	Units	Type of Sample	Sampling Frequency
Total Waste Flow	gpd	Estimated	Daily
Total Residual Chlorine ¹	ì g/l	Grab	Once per discharge ²
Fecal Coliform	mpn/100 ml	Grab	Once per discharge ²
Total Coliform	mpn/100 ml	Grab	Once per discharge ²
Enterococcus	mpn/100 ml	Grab	Once per discharge ²
pH	S.U.	Grab	Once per discharge ²
Total Suspended Solids	mg/l	Grab	Once per discharge ²
Turbidity	NTU	Grab	Once per discharge ²
Temperature	°F	Grab	Once per discharge ²
Ammonia	mg/l	Grab	Once per discharge ²
Oil and grease	mg/l	Grab	Once per discharge ²
Biochemical Oxygen Demand (BOD ₅ 20°C)	mg/l	Grab	Once per discharge ²

1. If there is no analytical method with a detection level below the effluent limitation, then the most sensitive method must be used. If the sample result is non-detect, the Discharger shall report the results as less than the method detection level and provide the actual detection level achieved.

2. Not more than one sample per week shall be collected.

IV. Toxicity Monitoring Requirements

A. Acute Toxicity Effluent Monitoring Program

1. The Discharger shall conduct acute toxicity tests on effluent grab samples by methods specified in 40 CFR Part 136 which cites U.S. EPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, U.S. EPA, Office of Water, Washington D.C. (EPA/821-R-02-012) or a more recent edition to ensure compliance in 100 % effluent.
2. 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 effluent. The method for topsmelt is found in U.S. EPA's *Short-term Method for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, Third Edition, October 2002 (EPA/821-R-02-014).
3. In lieu of conducting the standard acute toxicity testing with the fathead minnow, the Discharger may elect to report the results or endpoint from the first 48 hours of the chronic toxicity test as the results of the acute toxicity test.
4. Effluent samples shall be collected after all treatment processes and before discharge to the receiving water.

B. Quality Assurance

1. Concurrent testing with a reference toxicant shall be conducted. Reference toxicant tests shall be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration, etc).
2. If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the test methods manuals (EPA/821-R-02-013 and EPA/821-R-02-014), then the Discharger must re-sample and re-test at the earliest time possible.
3. Control and dilution water should be receiving water or laboratory water, as appropriate, as described in the manual. If the dilution water used is different from the culture water, a second control using culture water shall be used.

C. Accelerated Monitoring

1. If toxicity exceeds the limitations (as defined in Order No. R4-2004-0069, Section I.B.3.a.i.), then the Discharger shall immediately implement accelerated testing as specified in Section I.B.3.a.ii. The Discharger shall ensure that they receive results of a failing acute toxicity test within 24 hours of the close of the test and the additional tests shall begin within 3 business days of the receipt of the result. If the accelerated testing shows consistent toxicity, the Discharger shall immediately implement the Initial Investigation of the Toxicity Reduction Evaluation (TRE) Workplan.
2. If implementation of the initial investigation TRE Workplan indicates the source of toxicity (e.g., a temporary plant upset, etc.), then the Discharger may discontinue the Toxicity Identification Evaluation (TIE).
3. The first step in the initial Investigation TRE Workplan for downstream receiving water toxicity can be a toxicity test protocol designed to determine if the effluent from Discharge Serial No. 001 causes or contributes to the measured downstream acute toxicity. If this first step TRE testing shows that the Discharge Serial No. 001 effluent does not cause or contribute to downstream acute toxicity, using U.S. EPA's *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fifth Edition, October 2002, U.S. EPA, Office of Water, Washington D.C. (EPA/821-R-02-012), then a report on this testing shall be submitted to the Board and the TRE will be considered to be completed. Routine testing in accordance with MRP No.8034 shall be continued thereafter.

D. Steps in TRE and TIE procedures:

1. Following a TRE trigger, the Discharger shall initiate a TRE in accordance with the facility's initial investigation TRE workplan. At a minimum, the Discharger shall use EPA manuals EPA/600/2-88/070 (industrial) or EPA/833B-99/002 (municipal) as guidance or current versions. At a minimum, the TRE workplan must contain the provision in Attachment C. The Discharger shall expeditiously develop a more detailed TRE workplan for submittal to the Executive Officer within 30 days of the trigger, which will include, but not be limited to:
 - a. Further actions to investigate and identify the cause of toxicity;
 - b. Actions the Discharger will take to mitigate the impact of the discharge and prevent the recurrence of toxicity;

- c. Standards the Discharger will apply to consider the TRE complete and to return to normal sampling frequency; and,
 - d. A schedule for these actions.
2. The following is a stepwise approach in conducting the TRE:
- a. Step 1 - Basic data collection. Data collected for the accelerated monitoring requirements may be used to conduct the TRE:
 - b. Step 2 - Evaluates optimization of the treatment system operation, facility housekeeping, and the selection and use of in-plant process chemicals;
 - c. If Steps 1 and 2 are unsuccessful, Step 3 implements a TIE and employment of all reasonable efforts and using currently available TIE methodologies. The objective of the TIE is to identify the substance or combination of substances causing the observed toxicity;
 - d. Assuming successful identification or characterization of the toxicant(s), Step 4 evaluates final effluent treatment options;
 - e. Step 5 evaluates in-plant treatment options; and,
 - f. Step 6 consists of confirmation once a toxicity control method has been implemented.

Many recommended TRE elements parallel source control, pollution prevention, and storm water control program best management practices (BMPs). To prevent duplication of efforts, evidence of implementation of these control measures may be sufficient to comply with TRE requirements. By requiring the first steps of a TRE to be accelerated testing and review of the facility's TRE workplan, a TRE may be ended in its early stages. All reasonable steps shall be taken to reduce toxicity to the required level. The TRE may be ended at any stage if monitoring indicates there is no longer toxicity (or six consecutive chronic toxicity results are less than or equal to 1.0 TU_c).

3. The Discharger may initiate a TIE as part of the TRE process to identify the cause(s) of toxicity. The Discharger shall use the EPA acute and chronic manuals, EPA/600/6-91/005F (Phase I)/EPA/600/R-96-054 (for marine), EPA/600/R-92/080 (Phase II), and EPA-600/R-92/081 (Phase III) as guidance.
4. If a TRE/TIE is initiated prior to completion of the accelerated testing schedule required by Section I.B.3.a.ii of this permit, then the accelerated testing

schedule may be terminated, or used as necessary in performing the TRE/TIE, as determined by the Executive Officer.

5. Toxicity tests conducted as part of a TRE/TIE may also be used for compliance, if appropriate.
6. The Board recognizes that toxicity may be episodic and identification of causes of and reduction of sources of toxicity may not be successful in all cases. Consideration of enforcement action by the Board will be based in part on the Discharger's actions and efforts to identify and control or reduce sources of consistent toxicity.

D. Reporting

1. The Discharger shall submit a full report of the acute toxicity test results, including any accelerated testing conducted during the month as required by this permit. Test results shall be reported as % survival with the discharge monitoring reports (DMR) for the month in which the test is conducted.
2. If an initial investigation indicates the source of toxicity and accelerated testing is unnecessary, then those results also shall be submitted with the DMR for the period in which the investigation occurred.
 - a. The full report shall be submitted on or before the end of the month in which the DMR is submitted.
 - b. The full report shall consist of (1) the results; (2) the dates of sample collection and initiation of each toxicity test; (3) the acute toxicity average limitation or chronic toxicity limitation or trigger.
3. The Discharger shall provide a compliance summary, which includes a summary table of toxicity data from all annual samples and any accelerated samples from the term of this permit.

The Discharger shall notify by telephone or electronically, this Regional Board of any toxicity exceedance of the limitation or trigger within 24 hours of receipt of the results followed by a written report within 14 calendar days of receipt of the results. The verbal or electronic notification shall include the exceedance and the plan the Discharger has taken or will take to investigate and correct the cause(s) of toxicity. It may also include a status report on any actions required by the permit, with a schedule for actions not yet completed. If no actions have been taken, the reasons shall be given.

V. Receiving Water Monitoring

Pursuant to the California Water Code, section 13267, the Discharger is required to submit data sufficient for: (1) determining if water quality-based effluent limitations for priority pollutants are required, and (2) to calculate effluent limitations, if required. The *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (March 2, 2000) requires that the Regional Boards require periodic monitoring for which criteria or objectives apply and for which no effluent limitations have been established. Accordingly the Regional Board is requiring that the Discharger conduct annual receiving water monitoring for the priority pollutants listed in Section VI. The results of monitoring for reasonable potential determination shall be submitted in accordance with Section I.A of this *MRP*. Receiving water sampling shall be conducted at the same time as the effluent sampling. The receiving water monitoring location shall be within 50 feet from the discharge point, outside the influence of the discharge, in King Harbor.

The required monitoring frequency and type of sample for pH, hardness, salinity, and toxic pollutants are listed in Section VI of this Monitoring and Reporting Program.

VI. Priority Pollutant Monitoring for Reasonable Potential Determination

A. As described in Sections III.B and V of this *MRP*, the Discharger is required to monitor both the effluent and receiving water for pollutants listed in the table below in order to determine reasonable potential.

B. Monitoring for reasonable potential determination shall occur at the following locations:

- Effluent: Monitoring shall be conducted at Discharge Serial No. 001 (Latitude 33° 50' 38" N and Longitude 118° 23' 47" W) on the final effluent; and
- Receiving water: Monitoring shall be conducted at a location within 50 feet from the discharge point, outside the influence of the discharge, in King Harbor.

Pollutant	Units	Type of Sample	Sampling Frequency
pH	standard units	Grab	Annually ¹
Hardness (as CaCO ₃)	mg/L	Grab	Annually ¹
Salinity	g/L	Grab	Annually ¹
Antimony	µg/L	Grab	Annually
Arsenic ²	µg/L	Grab	Annually
Beryllium	µg/L	Grab	Annually
Cadmium ²	µg/L	Grab	Annually
Chromium III ²	µg/L	Grab	Annually
Chromium VI ²	µg/L	Grab	Annually
Copper ²	µg/L	Grab	Annually

Pollutant	Units	Type of Sample	Sampling Frequency
Lead ²	µg/L	Grab	Annually
Mercury	µg/L	Grab	Annually
Nickel ²	µg/L	Grab	Annually
Selenium	µg/L	Grab	Annually
Silver ²	µg/L	Grab	Annually
Thallium	µg/L	Grab	Annually
Zinc ²	µg/L	Grab	Annually
Cyanide	µg/L	Grab	Annually
Asbestos	Fibers/L	Grab	Annually
Acrolein	µg/L	Grab	Annually
Acrylonitrile	µg/L	Grab	Annually
Benzene	µg/L	Grab	Annually
Bromoform	µg/L	Grab	Annually
Carbon Tetrachloride	µg/L	Grab	Annually
Chlorobenzene	µg/L	Grab	Annually
Chlorodibromomethane (Dibromochloromethane)	µg/L	Grab	Annually
Chloroethane	µg/L	Grab	Annually
2-Chloroethylvinyl ether	µg/L	Grab	Annually
Chloroform	µg/L	Grab	Annually
Dichlorobromomethane (Bromodichloromethane)	µg/L	Grab	Annually
1,1-Dichloroethane	µg/L	Grab	Annually
1,2-Dichloroethane	µg/L	Grab	Annually
1,1-Dichloroethylene	µg/L	Grab	Annually
1,2-Dichloropropane	µg/L	Grab	Annually
1,3-Dichloropropylene	µg/L	Grab	Annually
Ethylbenzene	µg/L	Grab	Annually
Methyl Bromide (Bromomethane)	µg/L	Grab	Annually
Methyl Chloride (Chloromethane)	µg/L	Grab	Annually
Methylene Chloride	µg/L	Grab	Annually
1,1,2,2-Tetrachloroethane	µg/L	Grab	Annually
Tetrachloroethylene	µg/L	Grab	Annually
Toluene	µg/L	Grab	Annually
1,2-Trans-Dichloroethene	µg/L	Grab	Annually
1,1,1-Trichloroethane	µg/L	Grab	Annually
1,1,2-Trichloroethane	µg/L	Grab	Annually
Trichloroethylene	µg/L	Grab	Annually
Vinyl Chloride	µg/L	Grab	Annually

Pollutant	Units	Type of Sample	Sampling Frequency
2-Chlorophenol	µg/L	Grab	Annually
2,4-Dichlorophenol	µg/L	Grab	Annually
2,4-Dimethylphenol	µg/L	Grab	Annually
2-Methyl- 4,6-Dinitrophenol	µg/L	Grab	Annually
2,4-Dinitrophenol	µg/L	Grab	Annually
2-Nitrophenol	µg/L	Grab	Annually
4-Nitrophenol	µg/L	Grab	Annually
3-Methyl 4-Chlorophenol	µg/L	Grab	Annually
Pentachlorophenol	µg/L	Grab	Annually
Phenol	µg/L	Grab	Annually
2,4,6-Trichlorophenol	µg/L	Grab	Annually
Acenaphthene	µg/L	Grab	Annually
Acenaphthylene	µg/L	Grab	Annually
Anthracene	µg/L	Grab	Annually
Benzidine	µg/L	Grab	Annually
Benzo(a)Anthracene	µg/L	Grab	Annually
Benzo(a)Pyrene	µg/L	Grab	Annually
Benzo(b)Fluoranthene	µg/L	Grab	Annually
Benzo(ghi)Perylene	µg/L	Grab	Annually
Benzo(k)Fluoranthene	µg/L	Grab	Annually
Bis(2-Chloroethoxy)Methane	µg/L	Grab	Annually
Bis(2-Chloroethyl)Ether	µg/L	Grab	Annually
Bis(2-Chloroisopropyl)Ether	µg/L	Grab	Annually
Bis(2-Ethylhexyl)Phthalate	µg/L	Grab	Annually
4-Bromophenyl Phenyl Ether	µg/L	Grab	Annually
Butylbenzyl Phthalate	µg/L	Grab	Annually
2-Chloronaphthalene	µg/L	Grab	Annually
4-Chlorophenyl Phenyl Ether	µg/L	Grab	Annually
Chrysene	µg/L	Grab	Annually
Dibenzo(a,h)Anthracene	µg/L	Grab	Annually
1,2-Dichlorobenzene	µg/L	Grab	Annually
1,3-Dichlorobenzene	µg/L	Grab	Annually
1,4-Dichlorobenzene	µg/L	Grab	Annually
3,3'-Dichlorobenzidine	µg/L	Grab	Annually
Diethyl Phthalate	µg/L	Grab	Annually
Dimethyl Phthalate	µg/L	Grab	Annually
Di-n-Butyl Phthalate	µg/L	Grab	Annually

Pollutant	Units	Type of Sample	Sampling Frequency
2,4-Dinitrotoluene	µg/L	Grab	Annually
2,6-Dinitrotoluene	µg/L	Grab	Annually
Di-n-Octyl Phthalate	µg/L	Grab	Annually
1,2-Diphenylhydrazine	µg/L	Grab	Annually
Fluoranthene	µg/L	Grab	Annually
Fluorene	µg/L	Grab	Annually
Hexachlorobenzene	µg/L	Grab	Annually
Hexachlorobutadiene	µg/L	Grab	Annually
Hexachlorocyclopentadiene	µg/L	Grab	Annually
Hexachloroethane	µg/L	Grab	Annually
Indeno(1,2,3-cd)Pyrene	µg/L	Grab	Annually
Isophorone	µg/L	Grab	Annually
Napthalene	µg/L	Grab	Annually
Nitrobenzene	µg/L	Grab	Annually
N-Nitrosodimethylamine	µg/L	Grab	Annually
N-Nitrosodi-n-Propylamine	µg/L	Grab	Annually
N-Nitrosodiphenylamine	µg/L	Grab	Annually
Phenanthrene	µg/L	Grab	Annually
Pyrene	µg/L	Grab	Annually
1,2,4-Trichlorobenzene	µg/L	Grab	Annually
Aldrin	µg/L	Grab	Annually
alpha-BHC (hexachloro-cyclohexane)	µg/L	Grab	Annually
beta-BHC	µg/L	Grab	Annually
gamma-BHC	µg/L	Grab	Annually
delta-BHC	µg/L	Grab	Annually
Chlordane	µg/L	Grab	Annually
4,4' -DDT	µg/L	Grab	Annually
4,4' -DDE (linked to DDT)	µg/L	Grab	Annually
4,4' -DDD	µg/L	Grab	Annually
Dieldrin	µg/L	Grab	Annually
Alpha-Endosulfan	µg/L	Grab	Annually
beta-Endolsulfan	µg/L	Grab	Annually
Endosulfan Sulfate	µg/L	Grab	Annually
Endrin	µg/L	Grab	Annually
Endrin Aldehyde	µg/L	Grab	Annually
Heptachlor	µg/L	Grab	Annually

Pollutant	Units	Type of Sample	Sampling Frequency
Heptachlor Epoxide	µg/L	Grab	Annually
PCBs sum ³	µg/L	Grab	Annually
Toxaphene	µg/L	Grab	Annually

1. Sampling and analysis for pH, salinity, and hardness is required for samples of receiving water, only.
2. Measured as total recoverable.
3. PCBs sum refers to sum of PCB Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260.

C. The Discharger is shall conduct effluent/receiving water monitoring for the presence of the 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD or Dioxin) congeners. The monitoring shall be a grab sample with a minimum frequency of twice during the permit term (once during the 2nd year of the permit and once during the 4th year) of the permit term. The Discharger is required to calculate Toxic Equivalence (TEQ) for each congener by multiplying its analytical concentration by the appropriate Toxicity Equivalence Factors (TEF) provided below.

Congeners	TEF
2,3,7,8-tetra CDD	1.0
1,2,3,7,8-penta CDD	1.0
1,2,3,4,7,8-hexa CDD	0.1
1,2,3,6,7,8-hexa CDD	0.1
1,2,3,7,8,9-hexa CDD	0.1
1,2,3,4,6,7,8-hepta CDD	0.01
Octa CDD	0.0001
2,3,7,8-tetra CDF	0.1
1,2,3,7,8-penta CDF	0.05
2,3,4,7,8-penta CDF	0.5
1,2,3,4,7,8-hexa CDF	0.1
1,2,3,6,7,8-hexa CDF	0.1
1,2,3,7,8,9-hexa CDF	0.1
2,3,4,6,7,8-hexa CDF	0.1
1,2,3,4,6,7,8-hepta CDF	0.01
1,2,3,4,7,8,9-hepta CDF	0.01
Octa CDF	0.0001

- D. Please note that the report for this required monitoring must be submitted with the self-monitoring reports in accordance with the schedule provided in Section I.A of this *MRP* No. 8034. The reports shall reference "Monitoring Results for CTR Priority Pollutants Reasonable Potential Determination".
- E. SWRCB-approved laboratory methods and the corresponding MLs for the examination of each priority pollutant are listed in Attachment B-1. Reporting requirements for the data to be submitted are listed in Attachment D. We recommend that you select the analytical method from Attachment B-1 capable of achieving the lowest ML for each pollutant as listed on Attachment B. ML is necessary for determining compliance for a priority pollutant when an effluent limitation is below the MDL.
- F. The laboratory analytical data shall include applicable MLs, MDL, quality assurance/quality control data, and shall comply with the reporting requirements contained in the Attachments B & C.

Ordered by: _____
Jonathan S. Bishop
Executive Officer

Date: March 3, 2005