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Pete Wilson
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Los Angeles
Regional Water
Quality Control
Board

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December 11, 1997

Mr. Thomas McCormick, Vice President
Channel Islands Marine Resource Institute
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**WASTE DISCHARGE REQUIREMENTS AND NPDES PERMIT - Channel Islands
Marine Resource Institute (NPDES NO. CA0064131, CI No. 7854)**

Our letter dated August 19, 1997, transmitted tentative requirements for your discharge of aquaculture flow-through water into Port Hueneme Harbor.

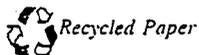
Pursuant to Division 7 of the California Water Code, this Regional Board at a public hearing held on December 8, 1997, reviewed the tentative requirements, considered all factors in the case, and adopted Order No. 97-137 (copy attached) relative to this waste discharge. This Order serves as permit under the National Pollutant Discharge Elimination System (NPDES), and expires on November 10, 2002. Section 13376 of the California Water Code requires that an application for a new permit must be filed at least 180 days before the expiration date.

The "Monitoring and Reporting Program" requires you to implement the monitoring program on the effective date of this Order. Your first monitoring report is due by January 15, 1998. All monitoring reports should be sent to the Regional Board, ATTN: Data/Information Management Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. 7854", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

As the Board adopted the tentative requirements without changes, we are sending the final copy only to the applicant. For those on the mailing list, please add Order No. 97-137 to the tentative Order previously sent to you. A copy of the final Order as adopted will be furnished to anyone who requests it.

To save printing and postage costs, the Standard Provisions (Attachment N) are being sent only to the Discharger; however, anyone may obtain copies by contacting the Board staff listed below.



Mr. Thomas McCormick
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If you have any questions, please contact Wen Yang at (213) 266-7659 or call me at (213) 266-7596.



Mark Pumford, Chief
Ventura Coastal Watershed Unit

Enclosure(s)

cc: U. S. Environmental Protection Agency, Region 9, Permits Branch (WTR-5)
Mr. John Youngerman, State Water Resources Control Board,
Division of Water Quality
Mr. Jorge Leon, State Water Resources Control Board, Office of Chief Counsel
California Department of Fish and Game, Marine Resources Region 5
California Department of Health Services, Sanitary Engineering Section
California Coastal Commission
NOAA, National Marine Fisheries Service
U. S. Department of Interior, U.S. Fish and Wildlife Service
Ventura County Department of Environmental Health
Pacific Missile Test Center, Point Mugu, Attn: Mr. Ron Dow
Naval Civil Engineering Laboratory, Port Hueneme, Attn: Mr. Mark Hollan
City of Port Hueneme

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

ORDER NO. 97-137
NPDES NO. CA0064131

WASTE DISCHARGE REQUIREMENTS
for
Channel Islands Marine Resource Institute

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) finds:

1. Channel Islands Marine Resource Institute (CIMRI), a non-profit public benefit corporation, has applied for Waste Discharge Requirements and National Pollutant Discharge Elimination System permit for its new marine education and research facility at 432 West Port Hueneme Road, Port Hueneme, California.
2. CIMRI is situated within the Aquaculture Park being developed by the City of Port Hueneme on the site of a former Naval Civil Engineering Laboratory adjacent to the Port Hueneme Harbor. Fish and other marine organisms collected from local waters will be held for display and research purposes. The facility will also raise fish, abalone, and other marine organisms for the enhancement of coastal marine fisheries.

Figures 1 and 2 show the location of the facility.

3. CIMRI will use a constant supply of seawater in a flow-through systems to hold and grow the marine organisms. Seawater will be pumped from an intake on the southwest jetty of Port Hueneme Harbor. The seawater will be filtered, pumped into a reservoir tank, and delivered to a series of tanks used for display, holding, and growing the marine organisms. Water within the tanks may be heated or cooled to optimize growing conditions for different organisms. As the water passes through the tanks, small amounts of waste and uneaten feed will be contributed to the water flow. The process will generate up to 1.08 million gallons per day (MGD) of aquaculture wastewater. CIMRI has proposed to discharge the wastewater to a point (Serial No. 001, Latitude 34° 08' 36", Longitude 119° 13' 48") close to the mouth of Port Hueneme Harbor, a water of the United States.

Figure 3 shows the schematic of wastewater flow.

4. The application characterizes the discharge as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum Daily Value</u>
pH	pH units	7.9 -8.4
Temperature	°C	23
BOD ₅ 20 °C	mg/L	2.0
Total Suspended solids	mg/L	20 - 75

5. The State Water Resources Control Board adopted a Water Quality Control Policy for Enclosed Bays and Estuaries of California on May 16, 1974. The policy requires that the discharge of industrial process waters to enclosed bays and estuaries be phased out at the earliest practicable date. The subject aquaculture wastewater is not considered an industrial process water for the purpose of the Bays and Estuaries Policy.
6. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the Coastal Watersheds of Los Angeles and Ventura Counties on June 13, 1994. The Basin Plan contains beneficial uses and water quality objectives for the Port Hueneme Harbor and other tributaries of the Ventura Coastal Watershed. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Basin Plan and will protect and maintain the beneficial uses of the receiving waters.
7. The beneficial uses of Port Hueneme Harbor (Hydro Unit No. 403.11) are: industrial process supply, navigation, contact and non-contact water recreation, commercial and sport fishing, marine habitat, and wildlife habitat.
8. The issuance of waste discharge requirements for this discharge is exempt from provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code in accordance with Water Code Section 13389.

The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for this discharge and has provided them with an opportunity to submit their written views and recommendations.

The Board in a public hearing heard and considered all comments pertaining to the discharge and to the tentative requirements.

This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Clean Water Act, or amendments thereto, and shall take effect at the end of ten days from the date of its adoption, provided the Regional Administrator, EPA, has no objections.

IT IS HEREBY ORDERED that the CIMRI, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

I. EFFLUENT LIMITATIONS

- A. Wastes discharged shall be limited to aquaculture flow-through wastewater, as proposed.
- B. The discharge of an effluent with constituents in excess of the following limits is prohibited:

<u>Constituent</u>	<u>Units</u>	<u>Discharge Limitations</u>	
		<u>30-Day Average</u>	<u>Daily Maximum</u>
Settleable solids	ml/L	1.0	3.0
Suspended solids	mg/L	50	75
	lbs/day ^{1/}	451	677
Oil and grease	mg/L	10	15
	lbs/day ^{1/}	90	135
BOD ₅ 20°C	mg/L	20	30
	lbs/day ^{1/}	180	270

^{1/} Based on the maximum waste flow rate of 1.08 million gallons per day.

II. REQUIREMENTS AND PROVISIONS

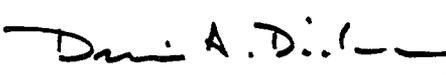
- A. Discharge of wastes to any point other than specifically described in this Order is prohibited and constitutes a violation thereof.
- B. This Order includes the attached "Standard Provisions and General Monitoring and Reporting Requirements." If there is any conflict between provisions stated hereinbefore and attached "Standard Provisions", those provisions stated hereinbefore prevail.
- C. This Order includes the attached Monitoring and Reporting Program. If there is conflict between provisions stated in the Monitoring and Reporting Program and the Standard Provisions, those provisions stated in the former prevail.
- D. This Order may be modified, revoked and reissued or terminated in accordance with the provisions of 40 CFR Part 122.44, 122.62, 122.63, 122.64, 125.62, and 125.64.

III. EXPIRATION DATE

This Order expires on November 10, 2002.

The discharger must file a Report of Waste Discharge in accordance with Title 23, California administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

I, Dennis A. Dickerson, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region on December 8, 1997.



DENNIS A. DICKERSON
Executive Officer

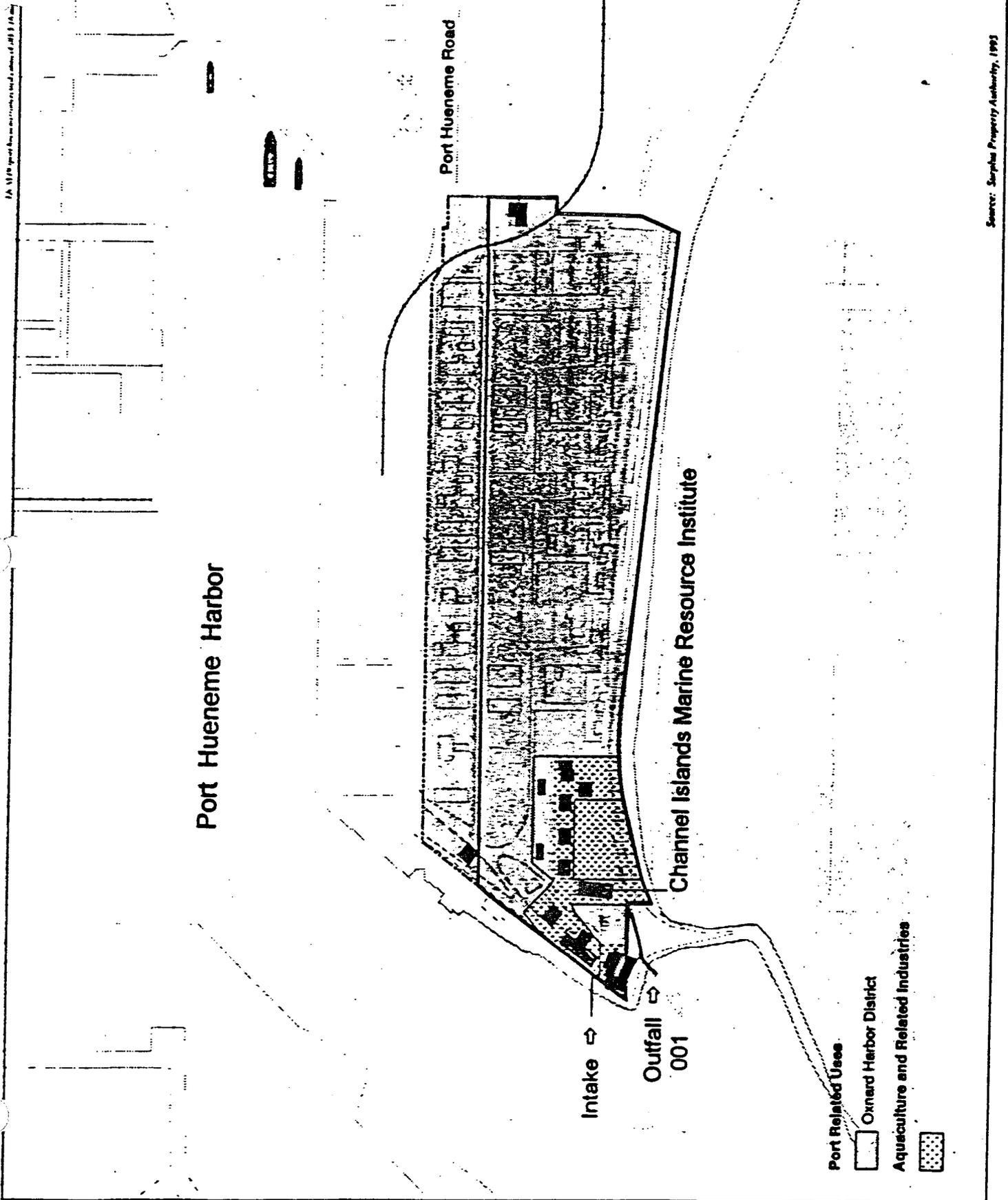


FIGURE 2.

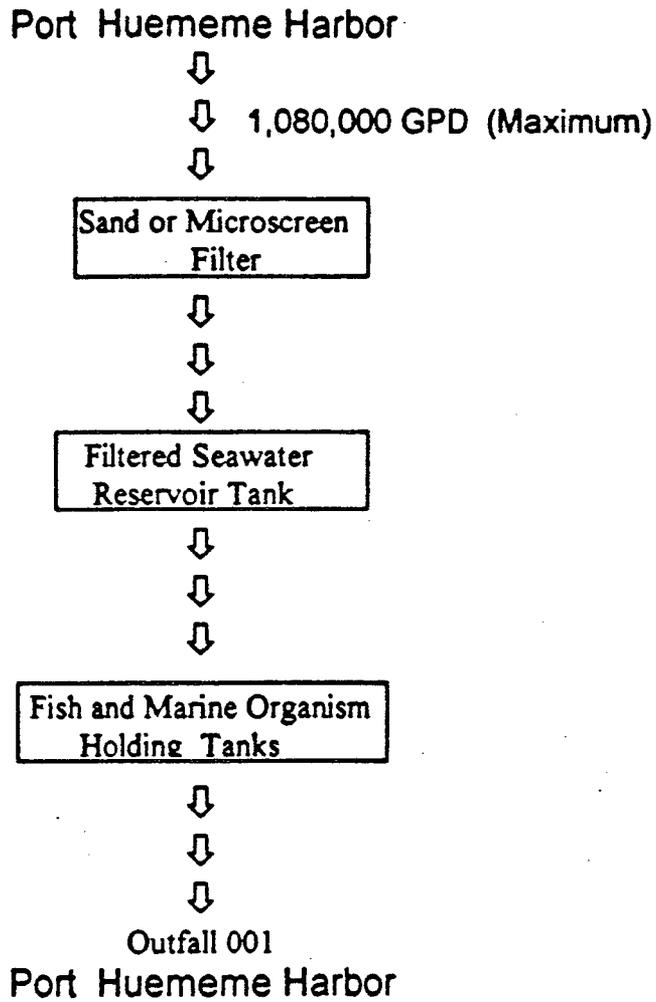


FIGURE 3. Schematic of water flow: Channel Islands Marine Resource Institute, Inc., 432 W. Port Hueneme Rd., Port Hueneme, Ventura County, CA

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

MONITORING AND REPORTING PROGRAM NO. 7854
for
Channel Islands Marine Resource Institute
(CA0064131)

I. REPORTING REQUIREMENTS

The discharger shall implement this monitoring program from the effective date of this Order. The first monitoring report under this program is due by April 15, 1998.

Monitoring reports shall be submitted by the dates in the following schedule:

<u>Reporting Period</u>	<u>Report Due</u>
January - March	April 15
April - June	July 15
July - September	October 15
October - December	January 15
Annual Report	March 1

If there is no discharge, the report shall so state.

II. EFFLUENT MONITORING REQUIREMENTS

- A. A sampling station shall be established for each point of discharge and shall be located where representative samples of that effluent can be obtained. In the event that waste streams from sources are combined for treatment or discharge, representative sampling stations shall be at that place to ensure that the quantity of each pollutant or pollutant property attributable to each waste source regulated by effluent limitations can be determined.
- B. The detection limits employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the discharger can demonstrate that a particular detection limit is not attainable and obtains approval for a higher detection limit from the Executive Officer. At least once per year, the discharger shall submit a list of the analytical methods employed for each test and associated laboratory quality assurance/quality control procedures.
- C. 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.
- D. Quarterly effluent analyses shall be performed during the months of February, May, August and November. Semiannual effluent analyses shall be performed during the months of February and August. Annual effluent analyses shall be performed during the month of February. Results of quarterly, semiannual and annual analyses shall be reported in the appropriate monthly monitoring report.

E. Effluent Monitoring Program

1. The following shall constitute the effluent monitoring program for the Discharge Serial No. 001:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total waste flow	gal/day	----	daily
Temperature	°F	grab	weekly
pH	pH units	grab	weekly
Dissolved oxygen	mg/L	grab	weekly
BOD ₅ 20°C	mg/L	grab	quarterly
Oil and grease	mg/L	grab	quarterly
Settleable solids	ml/L	grab	quarterly
Suspended solids	mg/L	grab	quarterly
Ammonia Nitrogen	mg/L	grab	quarterly
Nitrate Nitrogen	mg/L	grab	quarterly ^{1/}
Nitrite Nitrogen	mg/L	grab	quarterly ^{1/}
Organic Nitrogen	mg/L	grab	quarterly ^{1/}
Total coliform	MPN/100 mL	grab	quarterly ^{1/}
Arsenic	µg/L	grab	annually ^{2/}
Cadmium	µg/L	grab	annually ^{2/}
Chromium (total)	µg/L	grab	annually ^{2/}
Copper	µg/L	grab	annually ^{2/}
Lead	µg/L	grab	annually ^{2/}
Mercury	µg/L	grab	annually ^{2/}
Nickel	µg/L	grab	annually ^{2/}
Selenium	µg/L	grab	annually ^{2/}
Silver	µg/L	grab	annually ^{2/}
Zinc	µg/L	grab	annually ^{2/}

^{1/} If the results of the quarterly analyses for these constituents are not detectable for three consecutive quarters, the frequency of analysis may revert to annually.

^{2/} If the results of the annual analyses for these constituents are not detectable, then the frequency of analysis may revert to once per permit life.

Ordered by: Dennis A. Dickerson
DENNIS A. DICKERSON
Executive Officer

Date: December 8, 1997