

North Coast Regional Water Quality Control Board

December 15, 2021

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
NORTH COAST REGION
MONITORING AND REPORTING PROGRAM
ORDER No. R1-2021-0039**

**FOR THE
TAYLOR MARICULTURE LLC
HUMBOLDT BAY MARICULTURE FACILITY
WDID NO. 1B13152RHUM
HUMBOLDT COUNTY**

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MONITORING AND REPORTING PROGRAM (MRP)
Order No. R1-2020-0039

Taylor Mariculture LLC (Taylor Mariculture or Permittee) shall be subject to the following monitoring and reporting requirements unless such requirements are further modified by the Executive Officer. The Code of Federal Regulations (40 C.F.R. § 122.48) requires that all National Pollutant Discharge Elimination System (NPDES) permits specify monitoring and reporting requirements. California Water Code section 13267 and 13383 also authorizes the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements that implement federal and California regulations. Any person failing to furnish technical or monitoring reports or falsifying any information therein is guilty of a misdemeanor and may be subject to civil liability. (California Water Code section 13268).

Taylor Mariculture is enrolled for coverage under Order No. R1-2020-0006, General NPDES Permit for Low Threat Discharges to Surface Waters of the North Coast Region (General Order). The use authorized under the General Order is the waste discharge to Humboldt Bay resulting from the flow through aquaculture system located at the Permittee's Humboldt Bay Mariculture Facility (Facility).

Taylor Mariculture is also enrolled for coverage under Order No. R1-2017-0039, Conditional Waiver of Waste Discharge Requirements for Specific Categories of Low Threat Discharge in the North Coast Region (Conditional Waiver). The use authorized under the Conditional Waiver is the discharge of seed washing wastewater to a portion of the Humboldt Bay Harbor, Recreation, and Conservation District's onsite leachfield located at its Redwood Marine Terminal II facility on the Samoa Peninsula.

The General Order allows the Regional Water Board Executive Officer to modify the monitoring and reporting program for a specific permittee to reduce monitoring frequency and/or eliminate a monitoring parameter if it can be demonstrated that any reduction in monitoring requirements will not compromise water quality. The Executive Officer may also stipulate conditions and requirements in addition to those established by the MRP for all authorized discharges, including monitoring and reporting requirements, for each specific discharge to assess compliance with requirements of the General Order or Conditional Waiver and/or characterize the discharge and/or receiving water quality. This monitoring and reporting program (MRP) replaces the MRP contained within the General Order and establishes monitoring requirements for the Conditional Waiver.

1. GENERAL MONITORING PROVISIONS

1.1. Representative Monitoring Provision

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at

the monitoring locations specified in Table E-1, below, and further described in the Permittee's Notice of Intent (NOI) and Executive Officer's Notice of Authorization (NOA), and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of the Regional Water Board.

Effluent samples shall be taken downstream of the last addition of wastes to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters. Samples shall be collected at such point and in such manner to assure a representative sample of the discharge.

1.2. Supplemental Monitoring Provision

If the Permittee monitors any pollutant more frequently than required by this MRP, using test procedures approved by 40 C.F.R. part 136 or as specified in this MRP or the General Order, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the quarterly self-monitoring reports.

1.3. Data Quality Assurance Provision

Laboratories analyzing monitoring samples shall be certified by the State Water Resources Control Board (State Water Board) in accordance with the provisions of Water Code section 13176 and must include quality assurance/quality control data with their analytical reports. The Permittee may analyze pollutants with short hold times (e.g., pH, chlorine residual, etc.) with field equipment or its on-site laboratory provided that the Permittee has standard operating procedures (SOPs) that identify quality assurance/quality control procedures to be followed to ensure accurate results.

The Permittee shall keep a manual onsite containing the steps followed in this program and must demonstrate sufficient capability to adequately perform these field tests (e.g., qualified, and trained employees, properly calibrated and maintained field instruments). The program shall conform to U.S. EPA guidelines or other approved procedures.

1.4. Instrumental and Calibration Provision

All monitoring instruments and devices used by the Permittee to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated no less than the manufacturer's recommended intervals or one-year intervals (whichever comes first) to ensure continued accuracy of the devices.

1.5. Field Test Instruments

Field test instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity) may be used provided that the samples are analyzed by a State Water Board certified laboratory, or:

- 1.5.1. The user is trained in proper use and maintenance of the instruments;
- 1.5.2. All readings are properly recorded and records maintained;
- 1.5.3. The instruments are field calibrated prior to monitoring events at the frequency recommended by the manufacturer;
- 1.5.4. Instruments are serviced by the manufacturer or authorized representative at the recommended frequency; and
- 1.5.5. Field calibration reports are maintained and available for at least three years.

1.6. Minimum Levels (ML) and Analytical Method Selection

- 1.6.1. U.S. EPA published regulations for the Sufficiently Sensitive Methods Rule (SSM Rule) which became effective September 18, 2015. Unless otherwise specified by this MRP, all monitoring shall be conducted according to test procedures established at 40 C.F.R. 136, Guidelines Establishing Test Procedures for Analysis of Pollutants. All analyses shall be conducted using the lowest practical quantitation limit achievable using U.S. EPA approved methods. For the purposes of the NPDES program, when more than one test procedure is approved under 40 C.F.R., part 136 for the analysis of a pollutant or pollutant parameter, the test procedure must be sufficiently sensitive as defined at 40 C.F.R. 122.21(e)(3) and 122.44(i)(1)(iv). A U.S. EPA-approved analytical method is sufficiently sensitive where:
 - 1.6.1.1. The Minimum Level (ML) is at or below both the level of the applicable water quality criterion/objective and the permit limitation for the measured pollutant or pollutant parameter; or
 - 1.6.1.2. In permit applications, the ML is above the applicable water quality criterion/objective, but the amount of the pollutant or pollutant parameter in a facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
 - 1.6.1.3. The method has the lowest ML of the U.S. EPA-approved analytical methods where none of the U.S. EPA-approved analytical methods for a pollutant can achieve the MLs necessary to assess the need for effluent limitations or to monitor compliance with a permit limitation.

1.6.2. Where effluent limitations are set below the lowest achievable quantitation limits, pollutants not detected at the lowest practical quantitation limits will be considered in compliance with effluent limitations. Analysis for toxics listed by the California Toxics Rule (CTR) shall also adhere to guidance and requirements contained in the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (2005) (SIP). However, there may be situations when analytical methods are published with MLs that are more sensitive than the MLs for analytical methods listed in the SIP. For instance, U.S. EPA Method 1631E for mercury is not currently listed in SIP Appendix 4, but it is published with an ML of 0.5 ng/L that makes it a sufficiently sensitive analytical method. Similarly, U.S. EPA Method 245.7 for mercury is published with a ML of 5 ng/L.

2. MONITORING LOCATIONS

2.1. The Permittee shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in the General Order.

TABLE E 1. MONITORING STATION LOCATIONS

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
---	INF-001	Untreated intake water from Humboldt Bay to be utilized in the flow through mariculture system and before contact with any other water or waste.
001	EFF-001	Effluent from the flow through mariculture system, prior to discharge to discharge to Humboldt Bay.
002 ⁽¹⁾	EFF-002	Effluent from the seed washing facility, prior to discharge to the leachfield.
---	RSW-001	Receiving water immediately adjacent to the point of discharge at a location unaffected by the discharge to allow collection of water samples or observation of conditions that are representative of background conditions within the receiving water. Applicable to inland surface waters, enclosed bays, and estuaries.

Table Notes

1. Discharge Point 002 is required only for the monitoring of the seed washing facility effluent water as authorized under the Conditional Waiver.

3. INFLUENT MONITORING REQUIREMENTS

3.1. Monitoring Location INF-001

- 3.1.1. Influent monitoring is not required during a month when there is no intake flow. The Permittee shall indicate periods of no flow in the quarterly self-monitoring report.
- 3.1.2. The permittee shall monitor the influent at Monitoring Location INF-001 as follows.

TABLE E 2. INFLUENT MONITORING – MONITORING LOCATION INF-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ⁽²⁾
Influent Flow, monthly ⁽¹⁾	gallons	Meter	Daily	---
Total Suspended Solids (TSS)	mg/L	Grab	Monthly	Part 136
Settleable Solids	ml/L	Grab	Monthly	Part 136
Temperature	°C	Grab	Monthly	Part 136

Table Notes

1. The monthly intake shall be reported as total gallons per month and average gallons per day. Average gallons per day is calculated by dividing the total flow in the calendar month by the number of days in the month.
2. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Regional Water Board or State Water Board, such as with the current edition of Standard Methods for Examination of Waters and Wastewater (American Public Health Administration).

4. EFFLUENT MONITORING REQUIREMENTS

4.1. Monitoring Location EFF-001

- 4.1.1. Effluent monitoring is required when there is any discharge of process water from the facility to Humboldt Bay during a calendar month. The Permittee shall indicate periods of no discharge in the quarterly self-monitoring reports.
- 4.1.2. The Permittee shall monitor the effluent at Monitoring Location EFF-001 as follows.

TABLE E 3. EFFLUENT MONITORING – MONITORING LOCATION EFF-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ⁽³⁾
Effluent Flow, monthly ^(1,2)	gallons	Meter	Daily	---
Total Suspended Solids (TSS)	mg/L	Grab	Monthly	Part 136
Net TSS	mg/L	Calculation ⁽⁴⁾	Monthly	---
Settleable Solids	ml/L	Grab	Monthly	Part 136
Net Settleable Solids	ml/L	Calculation ⁽⁴⁾	Monthly	---
Turbidity	NTU	Grab	Monthly	Part 136
pH	pH Units	Grab	Monthly	Part 136
Temperature ⁽⁵⁾	°C	Grab	Monthly	Part 136

Table Notes

1. The monthly discharge flow shall be reported as total gallons per month and average gallons per day. Average gallons per day is calculated by dividing the total flow in the calendar month by the number of days that discharged occurred in the month.
2. The Permittee may use the influent flow measurement to calculate the monthly discharge flow. In reporting the result, the Discharge shall indicate that influent flow was used in the calculation and shall indicate when rainwater falling into the effluent raceway has affected the total discharge volume.
3. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Regional Water Board or State Water Board, such as with the current edition of Standard Methods for Examination of Waters and Wastewater (American Public Health Administration).
4. The net concentration shall be calculated by subtracting the influent concentration from the effluent concentration. The net concentration shall be used for determining compliance with the effluent limitations established in the General Order.
5. Compliance with the elevated temperature discharge provision, section IV.K of the General Order will be determined by calculating the temperature increase between the influent and effluent water. A temperature increase of less than or equal to 4°F (2.2°C) shall be in compliance with this provision.

4.2. Monitoring Location EFF-002

- 4.2.1. Effluent monitoring from the seed washing facility is required when there is any discharge of water from the seed washing facility to the leachfield during a

calendar month. The Permittee shall indicate periods of no discharge in the quarterly self-monitoring reports.

- 4.2.2. The Permittee shall monitor the seed washing facility effluent at Monitoring Location EFF-002 as follows.

TABLE E 4. EFFLUENT MONITORING – MONITORING LOCATION EFF-002

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ⁽²⁾
Effluent Flow, monthly ⁽¹⁾	gallons	Meter	Daily	---
Chlorine Residual	mg/L	Grab	Monthly	Part 136
<u>Table Notes</u>				
1. The monthly discharge flow shall be reported as total gallons per month.				
2. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Regional Water Board or State Water Board, such as with the current edition of Standard Methods for Examination of Waters and Wastewater (American Public Health Administration).				

5. RECEIVING WATER MONITORING REQUIREMENTS

5.1. Monitoring Location RSW-001

- 5.1.1. Receiving water monitoring is required when there is any discharge of process water from the facility to Humboldt Bay during a calendar quarter. The Permittee shall indicate periods of no discharge in the quarterly self-monitoring reports.
- 5.1.2. The Permittee shall monitor the receiving water at Monitoring Location RSW-001 as follows.

TABLE E 5. RECEIVING WATER MONITORING – MONITORING LOCATION RSW-001

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ⁽¹⁾
Dissolved Oxygen	mg/L	Grab	Quarterly	Part 136
Turbidity	NTU	Grab	Quarterly	Part 136
pH	pH Units	Grab	Quarterly	Part 136
Temperature	°C	Grab	Quarterly	Part 136

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method ⁽¹⁾
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Table Notes

1. Pollutants shall be analyzed using the analytical methods described in 40 C.F.R. part 136 or by methods approved by the Regional Water Board or State Water Board, such as with the current edition of Standard Methods for Examination of Waters and Wastewater (American Public Health Administration).

6. OTHER MONITORING REQUIREMENTS

6.1. Visual Monitoring (Monitoring Locations EFF-001 and RSW-001)

6.1.1. Visual observations of the discharge (Monitoring Location EFF-001) and the receiving water (Monitoring Location RSW-001) shall be recorded monthly during discharge. Visual monitoring of the effluent shall include, but not be limited to, observations for color, turbidity, floating or suspended matter or debris. Visual observations for the receiving water shall include, but not be limited to observations for the occurrence of erosion and scouring, turbidity, solids deposition, unusual aquatic growth, etc. Visual observations shall be recorded and included in the Permittee's monitoring reports submitted to the Regional Board.

6.1.2. The Permittee shall take photographs of the receiving water at Monitoring Location RSW-001 when discharging, one time per month. The photographs shall be labeled with a date and time and shall be included with monitoring reports submitted to the Regional Water Board.

6.2. Other Monitoring (Monitoring Locations EFF-001 and RSW-001)

6.2.1. When granting authorization to discharge under the General Order, the Executive Officer may stipulate conditions in addition to the requirements described by the General Order for all authorized discharges, including monitoring requirements, for a specific discharge. Such monitoring requirements shall become enforceable requirements of the General Order and may include effluent and/or receiving water monitoring requirements.

Low threat discharges that continue for more than one year may be required to monitor for any toxic pollutants for which water quality criteria or objectives have been established for the receiving stream. For example, this additional monitoring requirement may be applied to any discharge for which pre-project sampling revealed levels of any toxic pollutant that was below the applicable water quality criteria. This additional monitoring requirement may be stipulated in the authorization letter or may be requested at a later date if Regional Water

Board staff determines that this requirement is necessary to assure water quality protection. Monitoring for the toxic pollutants will provide on-going characterization of authorized discharges and assurance that toxic pollutants are not present in the concentrations that exceed applicable water quality criteria and objectives.

7. REPORTING REQUIREMENTS

7.1. General Monitoring and Reporting Requirements

7.1.1. The Permittee shall comply with all Standard Provisions (Attachment D) of the General Order related to monitoring, reporting, and recordkeeping.

7.2. Self-Monitoring Reports

7.2.1. The Permittee shall submit electronic Self-Monitoring Reports (eSMRs) using the State Water Board's California Integrated Water Quality System (CIWQS) Program Web site (<http://www.waterboards.ca.gov/ciwqs/index.html>). The CIWQS Web site will provide additional directions for SMR submittal in the event there will be service interruption for electronic submittal. The Permittee shall maintain sufficient staffing and resources to ensure it submits eSMRs that are complete and timely. This includes provision of training and supervision of individuals (e.g., Permittee personnel or consultant) on how to prepare and submit eSMRs.

7.2.2. The Permittee shall report in the SMR the results for all monitoring specified in this MRP under sections 3 through 7. The Permittee shall submit quarterly SMRs including the results of all required monitoring using U.S. EPA approved test methods or other test methods specified in this Order. SMRs are to include all new monitoring results obtained since the last SMR was submitted. If the Permittee monitors any pollutant more frequently than required by this Order, the results of this monitoring shall be included in the calculations and reporting of the data submitted in the SMR.

7.2.3. All monitoring results reported shall be supported by the inclusion of the complete analytical report from the laboratory that conducted the analyses.

7.2.4. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

TABLE E 5. MONITORING PERIODS AND REPORTING SCHEDULE

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Monthly	First day of calendar month following permit enrollment date or on the permit enrollment date if that date is the first day of the month	First day of calendar month through last day of calendar month.	First day of second calendar month following the end of each quarter (May 1, August 1, November 1, February 1)
Quarterly	Closest of January 1, April 1, July 1, or October 1 following (or on) permit enrollment date	January through March April through June July through September October through December	First day of second calendar month following the end of each quarter (May 1, August 1, November 1, February 1)

- 7.2.5. The Permittee shall report with each sample result the applicable ML, the Reporting Level (RL), and the current Minimum Detection Level (MDL), as determined by the procedure in 40 C.F.R. part 136.
- 7.2.6. The Permittee shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols
- 7.2.6.1. Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
- 7.2.6.2. Sample results less than the reported ML, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.
- 7.2.6.3. For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (\pm a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory
- 7.2.6.4. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.

- 7.2.6.5. The Permittee is to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Permittee to use analytical data derived from extrapolation beyond the lowest point of the calibration curve
- 7.2.7. The Permittee shall submit all eSMRs in accordance with the following requirements:
 - 7.2.7.1. The Permittee shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the Facility is operating in compliance with interim and/or final effluent limitations. The reported data shall include calculations of all effluent limitations that require averaging, taking of a median, or other computation. The Permittee is not required to duplicate the submittal of data that is entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format within the system, the Permittee shall electronically submit the data in a tabular format as an attachment.
 - 7.2.7.2. The Permittee shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify:
 - 7.2.7.2.1. Facility name and address;
 - 7.2.7.2.2. WDID number;
 - 7.2.7.2.3. Applicable period of monitoring and reporting;
 - 7.2.7.2.4. Any variations from the Notice of Intent (NOI);
 - 7.2.7.2.5. A brief evaluation of the effectiveness as all treatment methods and/or management measures implemented;
 - 7.2.7.2.6. Whether the discharge resulted in observable changes or impacts in the receiving water, including, but not limited to, discoloration or turbidity and an explanation of upstream and downstream conditions identified in the receiving water monitoring required by section 7.1 of this MRP;
 - 7.2.7.2.7. Identification and explanation of any complaints caused by the discharge;
 - 7.2.7.2.8. Violations of the General Order (identified violations must include a description of the requirement that was violated and a description of the violation);
 - 7.2.7.2.9. Corrective actions taken or planned; and
 - 7.2.7.2.10. The proposed time schedule for corrective actions.

- 7.2.7.3. eSMRs must be submitted to the Regional Water Board, signed, and certified as required by the Standard Provisions (Attachment D) of the General Order, to the CIWQS Program [Website](#).
- 7.2.7.4. In the event that an alternate method for submittal of electronic self-monitoring reports is required, the Permittee shall submit electronically via email to NorthCoast@waterboards.ca.gov or on disk (CD or DVD) in Portable Document Format (PDF) file in lieu of paper-sourced documents. The guidelines for electronic submittal of documents can be found on the Regional Water Board website at <http://waterboards.ca.gov/northcoast>.

7.3. Other Reports

7.3.1. Notice of Start Up

The Permittee shall notify the appropriate Regional Water Board staff person by telephone or email at least three (3) days before initiating an authorized discharge, unless a shorter notification period is authorized by the Executive Officer.

7.3.2. Notice of Termination

- 7.3.2.1. Within 30 days following permanent termination of the authorized discharge covered under the General Order, the Permittee shall provide notice that the authorized discharge has been discontinued using the Notice of Termination (NOT) form provided as Attachment G of the General Order.
- 7.3.2.2. Within 30 days following permanent termination of the authorized discharge covered under the Conditional Waiver, the Permittee shall provide a written notice to the Regional Water Board that the authorized discharge has been discontinued and request that coverage under the Conditional Waiver be rescinded.

7.4. Spills Notification

7.4.1. Spills and Unauthorized Discharges

Information regarding all spills and unauthorized discharges that may endanger health, or the environment shall be provided orally and by email to the Regional Water Board as soon as possible, but no later than 24 hours from the time the Permittee becomes aware of the circumstances and a written report shall also be provided within five (5) days of the time the Permittee becomes aware of the circumstances, in accordance with section V.E of Attachment D of the General Order.

- 7.4.1.1. Information to be provided verbally and by email to the Regional Water Board includes:

- 7.4.1.1.1. Name and contact information of caller;
 - 7.4.1.1.2. Date, time, and location of spill or unauthorized discharge occurrence;
 - 7.4.1.1.3. Estimates of spill or unauthorized discharge volume, rate of flow, and spill duration, if available and reasonably accurate;
 - 7.4.1.1.4. Surface water bodies impacted, if any;
 - 7.4.1.1.5. Cause of spill or unauthorized discharge, if known at the time of notification;
 - 7.4.1.1.6. Cleanup actions taken or repairs made at the time of the notification; and
 - 7.4.1.1.7. Responding agencies.
- 7.4.1.2. The written report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance

Ordered By: _____

Matthias St. John
Executive Officer

21_0039_Taylor_Shellfish_MRP

ATTACHMENT A-1 MONITORING LOCATION MAP

