

**AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
1 NATIONAL LIFE DRIVE, MAIN 2
MONTPELIER, VT 05620-3521**

**DRAFT INDIRECT
DISCHARGE PERMIT**

Permit No.: ID-9-0331
PIN: EJ96-0299

SECTION A – “ADMINISTRATION”

In compliance with provisions of 10 V.S.A. §1263, and in accordance with the following conditions, the permittee:

Hog Island Wholesale Bait & Tackle, Inc.
173 Lakewood Drive
Swanton, VT 05488

is authorized to indirectly discharge process wastewater from minnow tanks located at the Hog Island Wholesale Bait & Tackle facility in Swanton, Vermont to groundwater and indirectly into Lake Champlain. **This is a new indirect discharge permit.**

A1. Permit Summary:

Expiration Date	March 31, 2023
Type of Waste	Process Wastewater from Minnow Tanks
Disposal System	Leachfield Mound System
Disposal Capacity	1,200 gallons per day (gpd)
Drainage Basin	Upper Lake Champlain

A2. Compliance Schedule:

The following schedule summarizes the actions and requirements necessary for compliance with the conditions of this permit. The permittee shall complete the requirements in accordance with the dates indicated. See the designated section for specific details.

<u>Condition # & Description</u>	<u>Schedule Date</u>
A3. Apply for renewal of Indirect Discharge Permit	December 31, 2022
D2(A). Have a VT registered professional engineer complete an inspection of disposal system	Annually in April
D2(B). Submit Annual Inspection Report	Annually by July 1st
D2(C). Submit Schedule for Implementing engineer's recommendations	Annually by August 1st
D7. Submit discharge reports	Monthly when discharging
E1. Collect and analyze wastewater samples	Twice per year in February & June
E2(A). Install monitoring wells	Prior to discharging
E2(B). Measure and record depths to groundwater in monitoring wells	Monthly when discharging
E1, E2(B). Submit monitoring results and groundwater measurements	As specified

A3. Expiration Date:

This permit, unless revoked, or amended shall be valid until March 31, 2023 despite any intervening change in Water Quality Standards or the classification of receiving waters. Renewal of this Indirect Discharge permit will be subject to all rules applicable at the time of renewal, including biological standards to determine significant alteration of aquatic biota.

The permittee should apply for an indirect discharge permit renewal by December 31, 2022 for continued authorization to discharge process wastewater. For the purposes of Title 3, an application for renewal of this indirect discharge permit will be considered timely if a complete application is received by the expiration date.

A4. Effective Date:

This permit becomes effective on April 1, 2018.

A5. Revocation:

The Secretary may revoke this permit in accordance with 10 V.S.A. §1267.

A6. Transfer of Permit:

This permit is not transferable without prior written approval of the Secretary. The permittee shall notify the Secretary immediately, in writing, before any sale, lease or other transfer of ownership of the property from which the permitted discharge originates. The proposed transferee shall make application for a permit to be reissued in their name. Failure to apply shall be considered a violation of this permit. Responsibility for compliance with the conditions of this permit shall be the burden of the permittee until such time as transfer of the permit to the transferee is complete. All application and operating fees must be paid in full prior to transfer of this permit. This permit shall be transferred only upon showing by the permittee or proposed transferee of compliance with the following conditions:

- a. The transferee shall be a legal entity, financially and technically competent to operate, inspect, maintain and replace the systems.
- b. If the transferee is a corporation or an association of unit owners or other legal entity, it shall be demonstrated that such legal entity has legal authority to raise revenues for the proper operation, inspection, and maintenance of the system.
- c. The transferee shall provide a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee to the Secretary.

A7. Minor Modifications of Permit:

The Secretary may modify this permit without requiring a permit application, a public notice, or a public hearing to correct typographical errors, or to increase the monitoring frequency in accordance with Condition E(5) of this permit.

A8. Indirect Discharge Rules:

This indirect discharge qualified for an Indirect Discharge Permit in accordance with Section 14-607(b) for new indirect discharges of non-sewage wastes. No increase in discharge volume is allowed without the written approval of the Secretary.

A9. Right of the Agency to Inspect:

The permittee shall allow the Secretary or the Secretary's authorized representative upon the presentation of their credentials and at reasonable times:

- a. To enter upon permittee's premises in which any effluent source, treatment or disposal system is located or in which any records are required to be kept under the conditions of the permit;
- b. To have access to and copy any records required to be kept under conditions of this permit;
- c. To inspect any monitoring equipment or method required in this permit;
- d. To sample any discharge of waste, groundwater or surface water; and
- e. To inspect any collection, treatment, pollution management or disposal facility required by this permit.

A10. Permit Availability:

A copy of this permit shall remain at the office of the permittee and upon request shall be made available for inspection by the Secretary.

A11. Minor Modifications to System:

Minor modifications of the engineering design which do not reduce the treatment effectiveness or increase the capacity of the system may be approved in writing by the Secretary without a permit amendment. Before making modifications to the treatment and/or disposal system, the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any of the modifications or additions are made.

A12. Correction of Failed Systems:

The Secretary may, upon discretion, require the permittee to submit an application for an Indirect Discharge Permit Amendment for a replacement wastewater disposal system to replace a failed system if a replacement system was not previously approved in accordance with the design standards of the current Indirect Discharge Rules.

Before reconstruction of the failed system the permittee shall submit plans to the Secretary for review and approval. These plans must be approved before any reconstruction occurs. Due to the urgency of the need to correct failed disposal systems, the Secretary will process these Amendments as soon as possible.

A13. Operating Fees:

This indirect discharge is subject to operating fees. The permittee shall submit the operating fees in accordance with procedures provided by the Secretary.

SECTION B "INDIRECT DISCHARGE"

B1. Location of Indirect Discharge:

This indirect discharge will be located in the Upper Lake Champlain basin in the town of Swanton, Vermont. The indirect discharge disposal system will be located at Latitude N 44° 55' 56.9" and Longitude W 73° 13' 49.9".

B2. Nature of Indirect Discharge:

The permittee operates a wholesale bait facility from December through September each year. The facility consists of 12 tanks filled with minnows. Process wastewater from the minnow tanks currently is discharged to a holding pond which discharges to an agricultural ditch. Following construction of a leachfield mound system, process wastewater will be collected and recirculated through the wholesale bait facility, with a portion of the wastewater discharged to the mound system. The discharged wastewater will settle in a 1,000-gallon septic tank before flowing to a 2,000-gallon pump station. The process wastewater will then be pumped to the leachfield mound with an approved disposal capacity of 1,200 gallons per day. The mound system has a loading rate of 0.7 gallons per day/ft² in accordance with the design standards of the Indirect Discharge Rules.

SECTION C "SYSTEM CONSTRUCTION"

C1. Approved Plans:

The process wastewater treatment and disposal system shall be completed in accordance with the following plans titled "Michel Gingras, 173 Lakewood Drive, Swanton, Vermont", prepared and stamped by Samuel Ruggiano, P.E. of Ruggiano Engineering, Inc. and which were stamped "APPROVED" by the Secretary.

<u>SHEET</u>	<u>TITLE</u>	<u>DATE</u>	<u>LAST REVISION</u>
C-1	Existing Conditions	05/21/13	08/13/17
C-2	Proposed Site Plan	05/21/13	02/05/18
C-3	Details	07/13/17	01/17/18

C2. Construction Inspection and Certification:

Before the start of construction on the treatment and disposal system, the permittee shall contract with a Vermont Registered Professional Engineer to provide inspection of the approved construction. The engineer, at a minimum, shall perform the following items:

- a. The engineer or designated representative, or a licensed surveyor, shall stake out the location of the settling tank, pump station, force main and the disposal system in accordance with the approved plans.
- b. The engineer or designated representative shall be present for the leakage testing of the settling tank and pump station, and pressure testing of the force main.
- c. The engineer or designated representative shall inspect the mound site preparations upon completion of plowing of the mound area and prior to the placing of mound sand.
- d. The engineer or designated representative shall review and approve results of a sieve analyses of the mound sand to be delivered to the site.
- e. The engineer or designated representative shall witness the testing of the mound distribution system with clean water to verify that there is complete and even distribution throughout the mound. The minimum pressure at the end of each distribution line shall be one psi (or 2.3 feet of head). The difference in discharge rate between any two orifices in the disposal field during a dose cycle, as measured in gallons per square foot, shall not exceed 15%. Differences in discharge rates greater than 15% and/or pressures less than one psi will require corrective action.
- f. The engineer or designated representative shall provide general inspection of the work at reasonable intervals to assure that construction is done in accordance with the approved plans.
- g. The engineer or designated representative shall maintain written reports of all inspections performed including dates, items inspected and comments. Copies of all inspection reports shall be submitted to the Secretary a minimum of once every two weeks.
- h. Within 30 days following completion of construction, the inspecting Professional Engineer shall certify in writing to the Secretary that the construction was completed in accordance with approved plans and specifications and submit As-Built plans for the system.

SECTION D "SYSTEM OPERATION"

D1. General Operating Requirements:

The process wastewater treatment and disposal system shall be operated at all times in a manner that will: (1) not permit the discharge of process wastewater onto the surface of the ground; (2) not result in the surfacing of process wastewater; (3) not result in the direct discharge of process wastewater into the waters of the State; (4) not result in a violation of the Vermont Groundwater Protection Rule & Strategy; and (5) not result in a violation of the Vermont Water Quality Standards.

In accordance with the design calculations, the disposal rate to the mound system shall not exceed 1,200 gallons per day.

D2. Annual Inspection, Report and Implementation Schedule:

A. Annual Inspection:

Annually during the month of April, the permittee shall retain a professional engineer registered in the State of Vermont to make a thorough inspection, evaluation and report of the process wastewater treatment and disposal system. The engineer's inspection shall include, at a minimum, the following:

1. evaluating the accumulation of solids in the settling tank and pump station;
2. verifying the proper operation of all system components, including all lift station pumps, alarms and controls;
3. checking the calibration of the pump station hour meters;
4. measuring the depth to groundwater in the monitoring wells;
5. walking the disposal system, noting the general condition of the mound and checking for any signs of surfacing wastewater; and
6. noting any necessary repairs or maintenance that needs to be performed.

B. Annual Report:

By July 1st each year, the permittee shall have a professional engineer submit an annual inspection report including the following items:

1. a complete list of the items inspected and the results of the inspection;
and
2. a discussion of the recommended repairs and maintenance required.

D2. Annual Inspection, Report and Implementation Schedule (continued):

C. Implementation Schedule:

By August 1st each year, the permittee shall notify the Secretary in writing stating how the engineer's recommendations are to be implemented, including a schedule for the required repair and maintenance items which have not yet been completed.

D3. Solids Disposal:

During the system's annual inspection, the depth of solids shall be measured in the settling tank and pump station. The tanks shall be pumped if the solids are closer than twelve (12) inches to the outlet baffle or otherwise recommended by the inspecting engineer. The permittee shall notify the Secretary in writing of the name and address of the pumper and the municipal sewage treatment facility or other facility approved by the Secretary where the solids is to be or was disposed.

D4. System Operation and Maintenance:

The process wastewater treatment and disposal system shall be operated and maintained at all times in a manner satisfactory to the Secretary and in a manner that will not pose a risk to the public health and safety, or cause contamination of drinking water supplies, groundwater and/or surface water.

D5. Reporting of Failures:

The permittee shall immediately report any failure of the wastewater treatment and disposal system to the Secretary, first by telephone within 24 hours of the failure and then in writing within 5 days of the failure. The written notice shall include a discussion of the actions taken or to be taken to correct the failure.

D6. Discharge Restrictions:

The permittee shall not allow any person to discharge or cause to be discharged anything other than process wastewater to this treatment and disposal system.

D7. Monthly Report:

At the end of each month that process wastewater is discharged to the mound system, the permittee shall record the pump run times of the pump station and calculate the total volume and daily average of process wastewater discharged to the mound system for the month. The pump readings, monthly total and daily average shall be submitted to the Secretary by the 15th of the following month.

D7. Monthly Report (continued):

The monthly report shall be signed by the permittee, under the following statement:

“I certify under penalty of law that I have personally examined, and am familiar with, the information submitted herein. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.”

SECTION E "MONITORING"

E1. Process Wastewater Sampling:

The process wastewater shall be sampled and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Sample Type</u>	<u>Sample Frequency</u>
Biochemical Oxygen Demand (5-day)	mg/L	grab	February & June
Total Suspended Solids	mg/L	grab	February & June
Total Dissolved Solids	mg/L	grab	February & June
Sodium	mg/L	grab	February & June
Chloride	mg/L	grab	February & June
Total Phosphorus	mg/L	grab	February & June
Total Kjeldahl Nitrogen (TKN)	mg/L	grab	February & June
Nitrate Nitrogen	mg/L	grab	February & June
pH	S.U.	grab	February & June

Samples shall be taken from the process wastewater pump station.

The results of the wastewater analysis shall be submitted to the Secretary by the 15th day of the second month following the date of sampling.

E2. Groundwater Monitoring:

A. Installation of Monitoring Wells:

Prior to operation of the mound leachfield system, the permittee shall install a minimum of four shallow groundwater monitoring wells at approved locations upgradient and downgradient of the mound disposal area. The monitoring wells shall be constructed in accordance with accepted design standards.

E2. Groundwater Monitoring (continued):

B. Groundwater Levels:

On a monthly basis when process wastewater is being discharged to the mound system, the permittee shall measure and record the depth to groundwater from ground surface in each of the monitoring wells. The groundwater depths shall be submitted to the Secretary by the 15th day of the following month.

C. Chemical & Bacteriological Monitoring:

Upon request of the Secretary, the groundwater in all the monitoring wells shall be sampled and analyzed in accordance with the directives in the request letter. Sampling and analyses of groundwater may be required if process wastewater sampling results indicate that groundwater and/or water quality standards could be exceeded.

E3. Sampling and Testing Procedures:

All wastewater, groundwater and surface water sampling, preservation, handling and test procedures used to comply with the monitoring requirements herein shall conform to procedures specified in the most current edition of Standard Methods for the Examination of Water and Wastewater APHA - AWWA - WPCF, and the Vermont Water Quality Standards unless written approval of an alternate method is received from the Agency.

The laboratory utilized for analyzing the samples shall demonstrate successful participation in third party proficiency testing recognized by ISO or NELAP for all parameters and shall analyze any check sample provided by the Secretary. Failure to obtain an acceptable result for either the Secretary's check sample or successful third-party proficiency testing may be a basis for requiring an alternate analytical laboratory.

E4. Miscellaneous:

If the permittee monitors any required parameter set forth in this permit for this treatment and disposal system more frequently or at additional locations outside the treatment facility than required by this permit, the results of such monitoring shall be submitted to the Secretary. All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Secretary. Records shall include laboratory bench sheets showing exact location, time and composites of sample as well as analytical procedures used, interim results obtained and all calculations supporting the reported test results.

E5. Monitoring Requirements:

No other water quality monitoring of the system is required under this permit. However, the Secretary reserves the right to require additional monitoring of the system in accordance with Condition A(7) should operation of the system fail to meet the requirements of Sections D(1) and D(4).

SECTION F - COMPLIANCE REVIEW

If the results of any inspection or monitoring indicate that a violation of the process wastewater disposal rate, or a violation of the Vermont Groundwater Protection Rule & Strategy or the Vermont Water Quality Standards, is occurring, or is likely to occur, the Secretary may require the permittee to take appropriate corrective actions to eliminate or reduce the possibility of a violation.

The issuance of this permit, ID-9-0331, to Hog Island Wholesale Bait & Tackle, Inc. by the Secretary relies upon the data, designs, judgment and other information supplied by the applicant, the applicant's consultants and other experts who have participated in the preparation of the application. The Secretary makes no assurance that this system will meet the performance objectives of the applicant and no warranties or guarantees are given or implied.

SECTION G - EFFECTIVE DATE

This Indirect Discharge Permit, ID-9-0331, issued to Hog Island Wholesale Bait & Tackle, Inc. for the discharge of process wastewater from minnow tanks at the Hog Island Wholesale Bait & Tackle facility in Swanton, Vermont is effective on April 1, 2018.

Emily Boedecker, Commissioner
Department of Environmental Conservation

By: DRAFT
Mary Clark, Program Manager
Indirect Discharge Program

Date: _____