

AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
1 NATIONAL LIFE DRIVE
MONTPELIER, VERMONT 05620-3522

FACT SHEET
(November 2016)

PERMIT TO DISCHARGE TO A MUNICIPAL WASTEWATER TREATMENT FACILITY

PERMIT NO. 3-1562
PROJECT ID NO. EJ10-0473

NAME AND ADDRESS OF APPLICANT:

Fiddlehead Brewing Company, LLC
6305 Shelburne Road
Shelburne, VT 05482

NAME AND LOCATION OF FACILITY WHERE DISCHARGE OCCURS:

31 Sage Court
Shelburne, Vermont

MUNICIPAL WASTEWATER TREATMENT FACILITY:

Shelburne 2 Wastewater Treatment Facility

I. Proposed Action, Type of Facility, and Discharge Location

The above-named applicant applied on April 26, 2016 and submitted additional information August 10, 2016 to the Vermont Department of Environmental Conservation for a permit to discharge into the designated municipal wastewater treatment facility. The facility brews, packages, and distributes beer. The discharge is from the facility's process wastewater system to the municipal sewer line.

II. Description of Discharge

A quantitative description of the discharge in terms of significant effluent parameters is based upon State and Federal laws and regulations and the information provided in the application.

III. Limitations and Conditions

The effluent limitations of the draft permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the permit:

Effluent Limitations	Page 2 of 13
Monitoring Requirements	Page 2 of 13

IV. Permit Basis and Explanation of Effluent Limitation Derivation

Fiddlehead Brewing Company, LLC is proposing to construct and operate a 38,000 barrel per year brewery (final build-out) on Sage Court, Shelburne, VT and discharge the process wastewater generated from the brewing and packaging of beer to the Shelburne 2 Wastewater Treatment Facility via the municipal sewer collection system.

High strength waste, such as spent mash, lauter tun, yeasts, and cold water first rinses of the tanks, will be manually separated and collected into bins for transport and off-site disposal to area farmers for animal feed.

Process wastewater is generated during the brewing and packaging of beer. The process wastewater will be collected via trench drains and conveyed to a 10,000-gallon Inceptor tank for treatment of the process wastewater. The Inceptor tank consists of a flow equalization tank, a nutrient and chemical feed tank, a membrane bioreactor (MBR), and a sludge digester. From the inceptor tank the wastewater is discharged to municipal sewer collection system.

Flow – The effluent flow limitation is 3,500 gpd, maximum day. Daily flow measurements are required. This limitation is based on design of the wastewater treatment facility and the capacity allocated to this discharge from Town of Shelburne.

Biochemical Oxygen Demand – The draft permit proposes a BOD limit of 100 lbs/day, monthly average, and is based on the organic treatment capacity allocated to this discharge from the Town of Shelburne. Considering the waste management practices to be implement within the brewery and the design of the wastewater treatment system, this limitation is achievable. Because BOD is the greatest pollutant of concern with these types of discharges, BOD monitoring is required once per week. Composite sampling is necessary to ensure a representative sample of the effluent discharged during the day.

Total Suspended Solids - The draft permit proposes monthly monitoring of TSS. Composite sampling is required once per month.

Total Phosphorus – The draft permit proposes monthly monitoring of total phosphorus. Composite sampling is required once per month.

pH – An pH effluent limit of 5.5 - 9.5 S.U. is proposed in the draft permit and is consistent with the other permits issued for similar discharges and is consistent with the requirements of 40 CFR Part 403.

Special Conditions:

Special Condition I.A.2.a. prohibits the slug discharge of spoiled batches of beer to the Shelburne 2 Wastewater Treatment Facility.

Special Condition I.A.2.b. requires reporting of the off-site disposal of high strength waste and byproduct.

Special Condition I.A.2.c. requires that the permittee report the total amount of beer produced each month on the Discharge Monitoring Report form (WR-43).

Special Condition I.A.2.d. includes permit reopener language if the discharge interferes with the proper operation of the Shelburne 2 Wastewater Treatment Facility.

Waste Management Plan:

Condition I.A.3 requires that the facility implement a waste management plan to ensure proper pollution techniques are incorporated as part of the day to day operations.

V. Procedures for Formulation of Final Determinations

The public comment period for receiving comments on this draft permit is from November 7, 2016 through December 7, 2016 during which time interested persons may submit their written views on the draft permit.

Written comments should be sent to:

Vermont Agency of Natural Resources
Department of Environmental Conservation
Watershed Management Division – Main 2
1 National Life Drive
Montpelier, VT 05620-3522

Comments may also be submitted by e-mail using the e-mail comment provisions included at <http://www.anr.state.vt.us/dec/waterq/ww/html/notices.htm>.

All written comments received by 4:30 PM, December 7, 2016, will be retained by the Department and considered in the formulation of the final determination to issue, deny or modify the draft permit. The period of comment may be extended at the discretion of the Department

Any interested person or groups of persons may request or petition for a public hearing with respect to this draft permit. Any such request or petition for a public hearing shall be filed within the public comment period described above and shall indicate the interest of the party filing such request and the reasons why a hearing is warranted.

The Department will hold a hearing if there is significant public interest in holding such a hearing. Any public hearing brought in response to such a request or petition will be held in the geographical area of the proposed discharge or other appropriate area, at the discretion of the Department and may, as appropriate, consider related groups of draft permits. Any person may submit oral or written statements and data concerning the draft permit at the public hearing. The Department may establish reasonable limits on the time allowed for oral statements and may require the submission of statements in writing. All statements, comments, and data presented at the public hearing will be retained by the Department and considered in the formulation of the final determination to issue, deny, or modify the draft permit.

The complete application, draft permit, and other information are on file and may be inspected at the VTDEC, Watershed Management Division, 1 National Life Drive, Montpelier, VT. Copies will be made at a cost based on the current Secretary of State Official Fee Schedule for Copying Public Records from 8:00 AM to 4:30 PM, Monday through Friday. The draft permit and fact sheet may also be viewed on the Division's website at <http://www.anr.state.vt.us/dec/waterq/ww/html/notices.htm>