

AGENCY OF NATURAL RESOURCES  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
WATERSHED MANAGEMENT DIVISION  
ONE NATIONAL LIFE DRIVE, MAIN BUILDING, 2<sup>ND</sup> FLOOR  
MONTPELIER, VT 05620-3522

FACT SHEET  
(May 2016)

**PRETREATMENT DISCHARGE PERMIT AMENDMENT**

**PERMIT NO:** 3-1553  
**PROJECT ID NO:** BR97-0075

**NAME AND ADDRESS OF APPLICANT:**

The Alchemist (Alchemy Canning, Ltd.)  
35 Crossroad  
Waterbury, Vermont 05676

**NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:**

The Alchemist (Alchemy Canning, Ltd.)  
35 Crossroad  
Waterbury, Vermont 05676

**RECEIVING MUNICIPAL WASTEWATER TREATMENT FACILITY:**

Village of Waterbury Wastewater Treatment Facility  
Waterbury, Vermont

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

The Vermont Agency of Natural Resources (Agency) received an application to amend a pretreatment permit to discharge to the designated municipal wastewater treatment facility from the above named applicant on March 25, 2016. The facility brews and packages beer. The discharge is from the facility to the municipal sewer system. The applicant has requested a reduction in the frequency of pH monitoring from daily to three times a week to occur on production days. No other changes are requested.

II. Description of Discharge

A quantitative description of the discharge in terms of significant effluent parameters is based on state and federal laws and regulations, the discharge permit application, and the recent self-monitoring data.

III. Limitations and Conditions

The effluent limitations of the 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: Pages 2-3 and 4-5 of 13

#### IV. Basis and Explanation of Effluent Limitation Derivation

The Alchemist (Alchemy Canning, Ltd.) operates a brewery on Crossroad, Waterbury, VT and discharges process wastewater generated from the brewing and packaging of beer to the Village of Waterbury Wastewater Treatment Facility (WWTF) via the municipal sewer system.

High strength waste, such as mash, returned beer, first rinses, etc., is collected through pollution prevention Best Management Practices (BMPs) and transported off-site for agricultural purposes.

**Flow** – The effluent flow limitation is 3,000 gallons per day, monthly average. This limitation is based on the flow allocated to this facility from the Village of Waterbury. Total daily flow reporting is required.

**Biochemical Oxygen Demand (BOD<sub>5</sub>)** – The BOD limit is 75.2 lbs per day, monthly average. This limit is based on the organic treatment capacity allocated to this facility from the Village of Waterbury and is within the organic treatment capacity of the WWTF. This limit has been determined to be achievable by the brewery based on production levels and pollution prevention BMPs. BOD shall be monitored once per week.

**pH** – A pH limitation of 5.0 – 9.5 Standard Units is proposed and is consistent with the Village of Waterbury Sewer Use Ordinance. The proposed monitoring requirement in this amendment is three times per week. The current permit had a requirement to monitor pH daily. The permittee occasionally discharges small volumes of wastewater on weekends. This discharge is not the result of beer production. *Due to the nature of the discharge and because the permittee has had no pH violations in the past 12 months the monitoring frequency has been reduced to sampling 3 days per week and will fall on production days.*

#### V. Procedures for Formulation of Final Determinations

*The public comment period for receiving comments on this draft permit ran from April 18 through May 18, 2016. No comments were received concerning the draft permit.*