

# **Brewery & Fermented Beverage Policy**

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***SOUTH FORT COLLINS SANITATION DISTRICT***

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## **1. Purpose**

The purpose of this policy is to minimize the loading of brewery waste from entering the Publicly Owned Treatment Works (POTW) at the source. Brewery wastewaters contain pollutants such as excessive BOD, high temperature, high or low pH, solids that can contribute to sewer blockages, interfere with equipment and processes at the wastewater treatment plant, and cause damage to infrastructure through corrosion.

## **2. Scope and Applicability**

### **2.1 Scope**

This policy encompasses the entire service area of the South Fort Collins Sanitation District (SFCSD).

### **2.2 Applicability**

#### **2.2.1 Non-domestic Users**

This policy applies to any non-domestic user in the SFCSD service area that produces or manufactures fermented beverages including but not limited to breweries, distilleries, kombucha manufactures, etc. These users shall implement the best management practices (BMP) as determined by the District.

#### **2.2.2 Domestic Users**

This policy does not apply to domestic users. However, the best management practices (BMPs) set forth in this policy are recommended for domestic users to assist in keeping the collection system and private sewer lines flowing freely.

## **3. Definitions and Acronyms**

### **3.1. Definitions**

**Best Management Practices (BMP)** – Schedules of activities, prohibitions or practices, maintenance procedures, and other management practices; it also includes treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

**District** – The SFCSD is herein referred to as the District.

**Domestic User** – Any private residential user that discharges wastes derived from ordinary living processes excluding any commercial or industrial wastes.

**Drainage Fixture Unit (DFU)** – A measure of the portable hydraulic demand on the water supply by various types of plumbing fixtures. The supply fixture unit for a particular fixture depends on its volume rate of supply, time duration of a single supply operation, and average time between successive operations.

*Non-domestic User* – Any user that does not meet the criteria for categorization as a domestic user shall be considered a non-domestic user.

*Publicly Owned Treatment Works (POTW)* – Includes any devices or systems used in the collection, storage, treatment, recycling, and reclamation of sewage and any conveyances, which convey wastewater to the treatment plant.

*User* – Any person who contributes, causes, or permits the contribution of wastewater into the POTW.

## **3.2. Acronyms**

*BMPs* – Best Management Practices

*SFCSD* – South Fort Collins Sanitation District

*POTW* – Public Owned Treatment Works

## **4. Roles and Responsibilities**

### **4.1. Authority**

This policy was developed under the authority of the South Fort Collins Sanitation District Rules and Regulations.

### **4.2. District**

The District is responsible for implementing this policy. Duties include but are not limited to reviewing building plans, inspecting applicable users for compliance, and enforcing policy requirements. The District may delegate these responsibilities to sanitation districts or outside contractors which represent the District.

### **4.3. Users**

Users to which this policy applies, as identified in Section 2.2, shall comply with all requirements listed in Section 5.0. The user shall permit inspections by the District with or without notice for the purpose of determining applicability and/or compliance with this policy.

## **5. Requirements**

This section describes the requirements for all applicable users. Prior to purchasing a business or signing a lease for an existing retail space, the user is required to contact the District with questions about their requirements. This can help users avoid costly mistakes or oversights.

### **5.1. Plan Reviews**

The user and/or owner of the property, business, or industry or an authorized representative of the user shall contact the District for the purpose of obtaining a plan

review. The plan review shall determine the requirements necessary to control discharges. Written approval from the District must be obtained prior to obtaining a building permit. The review of such plans and operating procedures shall in no way relieve the user from the responsibility of modifying such facilities as necessary to produce a discharge acceptable to the District in accordance with SFCSD Rules and Regulations.

Plans shall be submitted for approval prior to any of the following:

- Sale or transfer of ownership of the business,
- Construction of a new building
- Change in the nature of the services provided or building use that affects the potential to discharge brewery waste, and/or
- Remodeling of the facility that may result in an increase in flow or brewery waste loading or that otherwise requires the facility to submit plans or specifications for approval through a building or zoning department, or any other formal approval process of a city, county, or other jurisdiction.

All plans submitted to the District must show the location of any processing equipment that clearly identify plumbing and plumbing fixtures, identify plumbing and plumbing fixture sizes, and a table or schedule identifying plumbing fixtures.

Plans shall include the size of each processing vessel. Plans shall include a detail showing internal plumbing, dimensions, cleanouts, and vent piping. If plan approval has been obtained, said plans shall not be deviated from. If a situation warrants the change of an approved plan, an amended copy must be resubmitted to the District for approval.

## **5.2. Record Keeping**

The User must keep records documenting the establishment's compliance with the SFCSD's requirements, including the following:

- Records documenting the off-site disposal of solid waste(s) with a disposal/discharge log.
- Records of all samples taken including, date, time, temp, pH, sample type and any other information obtained pursuant to any monitoring activities.
- Business owners are required to keep records of all maintenance and pumping activities for a minimum of three (3) years.

## **5.3. Best Management Practices (BMPs)**

The purpose of BMPs is to minimize the discharge of brewery wastes into the sanitary sewer system. The following BMPs shall be implemented by non-domestic users to whom this policy applies.

## **5.3.1. Temperature Management**

To comply with Section 6.2.1 of the South Fort Collins Sanitation District (SFCSD) Rules and Regulations and to avoid damaging the wastewater collections system, all wastewater will be below 120 degrees Fahrenheit prior to being discharged down drains. The following BMPs for high temperature wastewater must be implemented.

- Any hot wastewater must sit or be blended with other ambient/cool process wastewater to get the temperature of the wastewater to below 120 degrees Fahrenheit prior to being discharged to drain and the temperature will be recorded
- All liquid wastewater will be checked for temperature and pH prior to discharging to drain.
- If the temperature is below 120 degrees Fahrenheit and the pH is between 5.5 and 12:
  - Record temperature, pH, date and time of discharge and discharge to drain.
- If the temperature is above 120 degrees Fahrenheit:
  - Allow to sit or mix with ambient/cool process wastewater to lower temperature.
  - Once the temperature is below 120 degrees Fahrenheit and if pH is between 5.5 and 12, record temperature, pH, date and time of discharge and discharge to drain.

## **5.3.2. pH Management**

To comply with Section 6.2.1 of the South Fort Collins Sanitation District (SFCSD) Rules and Regulations and to avoid damaging the wastewater collections system, all wastewater will be between a pH no lower than 5.5 or higher than 12 standard units prior to being discharged down drains.

- Any process wastewater, acidic or caustic cleaning wastewater will be pH tested and alkalized or acidified to reach a pH of no less than 5.5 and no higher than 12 standard units.
- All liquid wastewater will be checked for temperature and pH prior to discharging to drain and the pH will be recorded.
- If the pH is between 5.5 and 12 and the temperature is below 120 degrees Fahrenheit:
  - Record temperature, pH, date and time of discharge and discharge to drain.
- If the pH is outside of the acceptable range:
  - Adjust pH with acid or base until between 5.5 and 12 standard units.

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Record temperature, pH, date and time of discharge and discharge to drain.

- pH meter(s) are calibrated, logged, and used according to the product or manufacturer's specifications.

### **5.3.3. Solids Management**

In order to comply with Section 6.2.1 of the South Fort Collins Sanitation District (SFCSD) Rules and Regulations, minimize surcharge-able wastewater, and to avoid obstructing the flow in the POTW, all solids are to be side streamed and WILL NOT be disposed of down drains. Any company or facility that discharges solids or prohibited waste(s) which cause a sewage backup is liable for any damages.

### **5.3.4. Off Spec Product**

Off spec / unused product(s) will not be discharged to the sewer without written approval from the SFCSD Pretreatment Department. Discharging excess amounts of high concentrated waste to the sanitary sewer system can disrupt the WWTP. If no other option is available to discard off spec / unused products, you will need to apply for a Special Discharge Request and meet SFCSD's discharge requirements. Upon receipt of your request, the SFCSD Pretreatment staff will review and approve/deny your request within 10 business days.

### **5.3.5. Chemical Storage and Handling**

Proper clean-up techniques of liquid products or other chemical spills, if safe to do so.

- All chemicals are stored in secondary containment and all chemical measuring and transferring is to be done over containment tray to prevent release to the sanitary sewer.
- All chemical use and storage areas are regularly inspected for proper storage of chemicals, integrity of secondary containment, good housekeeping, and correct use of dispensing equipment.
- Employees are to be trained in best practices and the proper handling, use, and disposal of chemicals appropriate to their role in production operations, ensuring that no chemicals are discharged to drain outside of regulatory limits stated in Section 6.2.1 of the South Fort Collins Sanitation District (SFCSD) Rules and Regulations.

### **5.3.6. Spill Prevention**

All users are required to have measures in place to control unwanted discharge to the sanitary sewer. Chemicals, cooking oils, and other liquid products must be stored away from drains or within a containment to reduce the potential for spills reaching the sanitary sewer and/or storm drainage system.

## **6. Enforcement**

The District may enforce this policy in any matter authorized by the Rules and Regulations or state or federal law. After inspection, the user will be given a copy of the inspection form. The inspection form will contain the inspection results and will indicate the deadline for any corrections, if necessary.

If a user continues to fail to make the corrections within required time frames, the user may be referred to the enforcement authority. Fines and/or re-inspection fees may be levied as an enforcement action. If non-compliance continues, the enforcement authority may escalate enforcement actions that could include both civil and criminal actions. The District has the authority to perform work or hire a contractor to perform work necessary to bring a user into compliance. Costs associated with work including labor, equipment, and materials incurred in rectifying the non-compliance shall be billed directly to the user and the total charges due shall constitute a lien on the user until paid in full.

The District is obligated under federal regulation to enforce violations pursuant to its Enforcement Response Plan. Noncompliance will result in enforcement actions based on several factors including harm to the environment or personal property, harm to the WWTP system or plant operations, pass through, interference, and worker or public safety.

## **7. References**

SFCSD Rules and Regulations

## **8. Review and Revision Schedule**

This Policy shall be reviewed, and revised, if necessary, every two years or more frequently.

## **9. Approval and Issuance**

This Policy has been approved and issued by the SFCSD Pretreatment Coordinator.