

Facility: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

Contact (Name) : \_\_\_\_\_  
(Number): \_\_\_\_\_  
(email): \_\_\_\_\_

Date in effect:

### Wastewater Pretreatment SOPs & BMPs (generic brewery)

#### Temperature Management:

- In order to comply with Section 15-10-22 of the Austin City Code and to avoid damaging the wastewater collections system, all wastewater will be below 120 degrees Fahrenheit prior to being discharged down drains.

- 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 down drains.

1. All liquid wastewater will be checked for temperature and pH prior to discharging to drain and the temperature will be recorded.

2. If the temperature is below 120 degrees Fahrenheit and the pH is between 6 and 11.5: record temperature and pH, date and time of discharge and discharge to drain.

3. If the temperature is above 120 degrees Fahrenheit:

allow to sit or mix with ambient/cool process wastewater to lower temperature. *City tap water will not be used to adjust temperature.* Once temperature is below 120 degrees Fahrenheit and if pH is between 6 and 11.5, record temperature and pH, date and time of discharge and discharge to drain.

#### pH Management:

- In order to comply with Section 15-10-22 of the Austin City Code and to avoid damaging the wastewater collections system, all wastewater will be between a pH no lower than 6.0 or higher than 11.5 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 6 and no higher than 11.5 standard units.

1. All liquid wastewater will be checked for temperature and pH prior to discharging to drain and the pH will be recorded.

2. If the pH is between 6 and 11.5 and the temperature is below 120 degrees Fahrenheit: Record temperature and pH, date and time of discharge and discharge to drain.

3. If the pH is outside of the acceptable range:

Adjust pH with acid or base until between 6 and 11.5 standard units. Record temperature and pH, date and time of discharge and discharge to drain. *City tap water will not be used to dilute or adjust pH of wastewater.*

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

#### Solids Management:

- In order to comply with Section 15-10-22 of the Austin City Code, 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.

- Spent Grain:
  1. Place trashcan/ disposal vessel next to or under mash tun.
  2. Remove spent grain and place into vessel for disposal.
  3. Once most of the grain has been removed, place a smaller vessel under drain port of mash tun.
  4. Open the mash tun drain valve and spray out any remaining grain into the smaller vessel below the drain port.
  5. Once the vessel is full, empty it into the larger trashcan/vessel holding spent grains. Repeat as necessary until all spent grain is inside disposal vessel.
  6. Ensure all spent grain has been transferred into disposal vessel. Sweep up any grain that spilled onto the floor. Spray out dust pans and broom into disposal vessel.
  
- Yeast, Hops, Trub, organic matter from fermentation
  1. Transfer slurry to a collection vessel either via pump or gravity.
  2. Rinse residual slurry and transfer into a collection vessel for disposal.
  3. Ensure all slurry has been transferred to the collection vessel. If any slurry spilled onto the ground sweep/mop it up and empty into the collection vessel. Spray out mop/broom into the collection vessel.

**Chemical Storage and Handling :**

- 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 15-10-22 of the Austin City Code.

Responsible Party Signature: \_\_\_\_\_ Date: \_\_\_\_\_