

# Brewery, Distillery and Wine Making Facilities Best Management Practices (BMPs)



## City of Springfield Industrial Pretreatment Program

The City of Springfield's Industrial Pretreatment Program, along with local breweries, distilleries and wine makers, are working to reduce the amount of potentially hazardous substances in the wastewater system. Discharges from these operations can include contaminants, such as solids, sulfides, high temperatures and extremes in pH. These factors can generate odors, corrode pipes, adversely affect aquatic organisms and impact the wastewater treatment plant and personnel.

## Practice Best Management Practices (BMPs)

Best management practices are proactive techniques that prevent pollution at the source rather than trying to eliminate them later from a mixed waste stream. It means looking at every action to determine how fewer and less harmful substances can be used, how fewer waste products can be created, how substances can be reused or recycled and what disposal options are available to keep these substances out of the wastewater system, landfills and the air.

## Reduce Solids

Solids must be reduced from wastewater prior to discharging into the wastewater system. Wastewater with residue from fermentation should be filtered prior to discharge, the residue solid material should be collected by settling, straining, and screening or filtering; then solids should be dewatered and disposed of off-site by composting. Reuse or recycle any valuable by-products generated from fermentation.



## Moderate pH levels

Any wastewater having a pH less than 5.5 or greater than 12.0 or having corrosive property is prohibited from being discharged to the wastewater system. Liquid wastes from cleaning and sterilizing activities must be collected, tested for pH and adjusted to a pH between 5.5 and 12.0 before discharging into the wastewater system. Caustic solutions, which have a high pH level, can be treated by adding mild acids such as vinegar or citric acid and mixing or bubbling carbon dioxide through the solution before discharge. Acid solutions, which have a low pH, can be treated by adding baking soda or a weak calcium carbonate (lime) solution. Other ways to moderate pH levels in liquids include the use of manual cleaning methods like scrubbing with scrub pads, using other non-chemical cleaners and avoiding the use of chlorinated chemicals.

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## Cool and Conserve Water

Any wastewater having a temperature which will inhibit biological activity in the treatment plant or stimulate excessive biological activity is prohibited from being discharged to the wastewater system. Temperature at the point of discharge into the wastewater system which exceeds 65 degrees Celsius (150 degrees Fahrenheit) or with a temperature which exceeds 40 degrees Celsius (104 degrees Fahrenheit) at the regional treatment plant influent are thus prohibited.

Ways to conserve water include the use of clean-in-place systems during the cleaning process, monitoring the water consumption to keep track of water usage and finding alternatives to water-cooled chilling equipment.

## Spill Prevention and Response

To help prevent spills, store ingredients, products and chemicals in corrosion-resistant containers that will not easily overturn. Use secondary containment as needed to prevent leaks and spills from draining into the wastewater system. Develop a spill response plan and train employees to follow the plan. Post the spill response plan and the contact information for spill notification in a prominent place.

In the event of an accidental discharge or spill of high-strength toxic materials into the wastewater system notification must be made **IMMEDIATELY** by contacting the following in the order listed:

- Wastewater Treatment Plant: 541.682.8600 (24/7)
- City of Springfield Operations Division: 541.726.3761 (Msg OK)
- City of Springfield Environmental Services Division: 541.726.3694 (Msg OK)

*Spill signs are available from the City of Springfield Industrial Pretreatment Program - 541.726.3694*



## Record Keeping

All records must be kept a minimum of three years. Records must show documentation of routine maintenance, cleaning, waste removal and means of disposal of accumulated wastes.

## OTHER RESOURCES

Oregon Association of Clean Water Agencies (OR-ACWA): [www.oracwa.org](http://www.oracwa.org)

Pacific Northwest Pollution Prevention Resource Center (PPRC): [www.pprc.org](http://www.pprc.org)

City of Springfield Municipal Code, Chapter 4 & General Requirements:

<http://www.springfield-or.gov/dpw/IndustrialPretreatment.htm>