



Hampton Roads Sanitation District
Alcohol Beverage Manufacturing Best Management Practice

This Best Management Practice (BMP) is issued in accordance with all terms and conditions of the Hampton Roads Sanitation District Industrial Wastewater Discharge Regulations, and in accordance with any applicable provision of Federal or State law or regulation.

The **Alcohol Beverage Manufacturing BMP** is applicable to facilities discharging alcoholic beverage manufacturing wastewater into the HRSD sanitary sewer system.

Effective July 1, 2016
Revised January 1, 2022

A handwritten signature in black ink, appearing to be 'M. A.', is written over a horizontal line.

General Manager
(By Direction)

Best Management Practice (BMP) for Alcohol Beverage Manufacturing

Effective Date: January 1, 2022

1. Purpose

This BMP is a combination of practices which are applicable to manufacturers of alcoholic beverages, such as breweries, distilleries, wineries and cideries. HRSD has determined this to be an effective, practicable means of protecting human health and the sewerage system by preventing or reducing the release of toxic and hazardous pollutants from spills, leaks, disposal, and manufacturing processes. BMPs are a written control mechanism and shall be enforceable in accordance with HRSD's Industrial Wastewater Discharge Regulations and the Enforcement Response Plan (ERP), which are considered a part of this BMP.

2. Prohibited Discharges

Wastewater with a pH lower than 5.0 SU is prohibited from discharge to the sewerage system. Wastewater with a pH greater than or equal to 12.5 SU may be discharged but is considered hazardous waste and must be reported to HRSD via the Hazardous Waste Notification Form. Wastewater that requires pH neutralization prior to discharge may be adjusted by use of containment and waste mixing or the addition of acid/caustic. Diluting wastewater with water to neutralize is prohibited.

Unusable batches of product may be discharged to the sewerage system once the pH has been neutralized and HRSD has been notified. HRSD may place restrictions on this discharge, such as flow rates, volumes, and times, if deemed necessary to protect HRSD treatment plant operations. All batches shall be recorded in the discharge pH logbook along with the volume of discharge in gallons.

Solid waste, such as spent yeast, grains, hops, must, and any residual materials removed from any industrial pretreatment device (i.e., neutralization pit, solids separator, etc.) shall not be discharged directly or indirectly into the sewerage system. Grease control device residuals shall not be discharged directly into the HRSD system; however, food service grease control device residuals may be discharged indirectly by waste haulers holding HRSD Indirect Wastewater Discharge Permits at locations authorized by HRSD. All pretreatment devices shall be maintained in accordance with manufacturer's specifications at all times. All floor and trench drains shall be equipped with screens, filters, or baskets to minimize accidental discharge of solids to the sewerage system.

3. Chemical Usage

All on-site chemicals shall be properly labeled and stored away from floor drains or placed in secondary containment to prevent accidental spills from reaching the sewerage system. HRSD shall be notified immediately of any spills reaching the sewerage system.

Safety Data Sheets (SDS) for all chemicals discharged to the sewerage system including, but not limited to, caustics, acids, sanitizers, passivators, floor cleaners, manufacturer samples, shall be submitted to this office for review. All chemicals are deemed unapproved and shall not be discharged to the sewerage system until correspondence indicating otherwise is received from HRSD.

4. Monitoring Requirements and Record Keeping

To ensure that wastewater is in the acceptable range before discharge, a representative sample of the wastewater must be analyzed for pH using either electronic pH measuring equipment (i.e., pH meter) or full range pH strips. If the pH is outside of the acceptable range, the wastewater must be neutralized prior to discharge.

4.1 pH meter calibration logbook

The use of an electronic pH measuring device (pH meter) requires calibration prior to the first use each day in accordance with manufacturer's specifications and instructions and must be documented in a pH meter calibration logbook. This logbook, or digital record, must contain: the meter serial number; date of calibration; employee initials; time of calibration; pH results of all buffer solution standards; and, if the calibration check met acceptance criteria. The log is not required to be submitted to this office but shall be maintained onsite for the most current three (3) year period and shall be available for review by HRSD personnel at all times. All calibrations must be conducted with fresh, unexpired buffer. If the buffer solution does not have an expiration date listed by the manufacturer, the open date must be written on the bottle and the buffer solution is considered expired 12 months after opening. The pH must be measured within 15 minutes of sample collection.

If using pH measuring strips, they must be full range (0 – 14 SU), used prior to their expiration date and stored in a cool, dry place.

4.2 Discharge pH logbook

A discharge pH logbook must be maintained indicating at a minimum: the date of discharge; employee initials; the type of tank the wastewater came from; the time the sample was collected; the time the sample was analyzed

(applicable for pH meter only); the discharge pH; and any associated comments such as how the pH was neutralized. If no discharge to the sewerage system occurs in any calendar month, enter "No Discharge", date, and initials. The logbook or digital record is not required to be submitted to this office but shall be maintained onsite for the most current three (3) year period and shall be available for review by HRSD personnel at all times.

5. Additional Information

All correspondence and submittals must be sent via email to p3data@hrsd.com or by mail to:

HRSD
Pretreatment & Pollution Prevention
Attention: Alcohol BMP Program
PO Box 5902
Virginia Beach, VA 23471-0902

Please refer to www.hrsd.com/alcohol-bmp for information regarding:

Code of Federal Regulations Title 40 Part 136, Part 261, Part 403
HRSD Industrial Wastewater Discharge Regulations
P3 Enforcement Response Plan (ERP)
HRSD Rate Schedule
Hazardous Waste Notification Form
High Strength Waste Surcharge Billing
Billing Deductions through the Alcohol and Tobacco Tax and Trade Bureau (TBB)
Pollution Prevention (P2) Awards