

Food and Beverage Industry

Successful operation of a food and beverage manufacturing facility requires integration of environmental, health and safety (EH&S) compliance requirements and strategic wastewater treatment and pretreatment system design into facility management systems. CAPACCIO's staff of engineers, scientists, and regulatory specialists understand these requirements and have advised, addressed the concerns, and recommended EH&S and engineering solutions to food and beverage companies that are cost-effective and promote sustainability in their operations.

For example, CAPACCIO helped a food manufacturer when it was required to install pretreatment to remove fats and oil and adjust the pH of their wastewater before discharging to the sewer system. CAPACCIO created a design and completed the project including assisting with the construction; coordinating and submitting drawings to the POTW; and reviewing the shop drawings. CAPACCIO also designed a lift station, an oil/water separator, and a dual pH system with re-circulating flow in the event a pH exceedence should occur, which all added value to the client's operation.

We are experienced in a variety of food industry manufacturing and facilities processes and have worked with Facility and EH&S Managers with facility set up and closure protocols; occupational health and safety compliance; preparation and submittal of environmental permits and registrations; design of manufacturing process and laboratory air and water pollution control systems; development and delivery of health safety training services; hazardous waste management; and on-site EH&S professional staff.

Environmental, Health and Safety On-Site Assistance

CAPACCIO can complement your existing staff or alleviate temporary or long-term gaps in your workforce with our unique Environmental, Health and Safety on-site Management Program (EHSMP). With EHSMP, you receive the expertise when you need it without having to hire new staff and pay a full time salary and benefits, or if you need assistance on an interim basis until a full-time hire is complete. Either way, our EH&S professionals can fill gaps from one to five days a week, or for just one day a month.

Environmental, Health and Safety Compliance

Our compliance services include:

- Compliance monitoring reports
- Contingency and emergency response plans
- Development of environmental management tools (e.g., environmental compliance calendar)
- Emissions reports
- Emergency Planning Community Right to Know Act (EPCRA) reporting
- Hazardous waste generator training
- Health and safety compliance reviews
- Health and safety training
- Industrial hygiene sampling
- Industrial ventilation design and review
- ISO 14000 and OHSAS 18000 program development and assistance
- Process Safety Management (PSM) audits and program development
- Product safety assistance
- Risk Management Program (RMP) audits and development
- Stormwater pollution prevention plans and training
- Spill prevention, control, and countermeasures (SPCC) plans and training
- Tier II reporting
Toxics Use Reduction Act (TURA) planning and reporting
- Wastewater treatment system operation and maintenance assistance and operator training

Sustainability Services

- Assessments (Current and Future State)
- Awareness Training
- Benchmarking
- Corporate Customer, Investor, and Stakeholder Reporting
- Grease Recovery
- Management Systems (ISO 9001, ISO 14001, OHSAS 18001)
- Program Development and Implementation
- Water Conservation

Environmental Permitting

- Permit application preparation for:
 - air pollution control systems and process ventilation
 - water treatment and wastewater treatment systems
 - fuel burning equipment including emergency generators
 - surface water discharges under the National Pollutant Discharge Elimination System (NPDES) program
- License applications for chemical storage
- Professional engineer's certification of aboveground (AST) and underground (UST) storage tanks
- Determinations for Lowest Achievable Emission Rate (LAER), Best Available control Technology (BACT), and Reasonably Available Control Technology (RACT)
- Total Maximum Daily Load (TMDL) review and consultation

Design and Construction Assistance

- AST/UST Inspections and Removals
- Bid assistance
- Contaminated soil and groundwater management
- Design of air and wastewater pollution control/treatment systems
- Design of local exhaust ventilation
- Drawings and specifications
- Facility/process review and evaluation
- Treatability and feasibility studies
- Pilot testing
- Resident inspection and system start-up

Site Selection

- Identification of development restrictions posed by state environmental regulation and local environmental by-laws
- Identification of special local permit requirements
- Identification of surrounding land use such as residence and other sensitive users
- Assessment of local regulations

Due Diligence

- Property transaction screening
- ASTM Phase I environmental assessments
- Groundwater investigations

QUALIFICATIONS

CAPACCIO professionals are:

- Certified Industrial Hygienists
- Certified RABQSA Auditors
- Certified Environmental, Health and Safety Trainers
- Certified Safety Professionals
- Certified Hazardous Materials Managers
- Licensed Professional Engineers
- Licensed Site Professionals



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