INDUSTRIAL WASTEWATER

WWTP Design for The Wine Industry

Industry:	Wine/Beverage
System:	70 gpm Waste Water Treatment System Design
Location:	New York
Goals:	Remove Suspended Solids, BOD, COD

Project Overview:

SAMCO's state-of-the-art Waste Water Treatment System process design at a leading company's Grape Crushing Plant & Winery utilizes Biological Treatment, Suspended Solids Flocculation, Clarification, Sludge Handling/Dewatering to treat wastewater and meet stringent discharge quality. It is also designed for variable and high influent BOD levels in a Wine/Beverage industry.

Critical Issues:

- Complex contaminants & varied flow
- Plant expansion w/ added water & wastewater load
- Stringent discharge limits
- High sewer surcharge costs

Vision for Solution:

- Pollution prevention (P2), waste minimization, recycle/reuse & source segregation strategies to reduce contaminant load on wastewater treatment plant, reduce chemical feed, reduce sludge waste and handle added expansion load
- Biological treatment in lieu of discharge to POTW, for maximized ROI
- Utilize our standard products & pre-packaged system design for fast-track turnkey project delivery and performance guarantee
- PLC controlled system for minimum operator attention
- Modular design with expansion capability for future needs

Project Scope:

- Detailed Plant Survey
- Treatability Studies
- Concept Development
- Project Estimation
- P2 & Waste Minimization Studies
- Onsite Pilot Studies
- Process Design/Project Engineering

Equipment Description:

- Equalization Tanks
- Chemical Feeds
- Sludge Recycle
- Sludge Handling
- PLC Controls
- Influent Pumps
- Biological Packed Tower System
- Clarifier System
- Filter Press
- Platforms/Stairs

Special Features:

- Study sewer use ordinances, flow records, lab results, plant and POTW O&M records
- Engineering studies reduce 30% wastewater & 50% pollutant concentration
- PLC controlled system with Panel-View Operator Interface for system automation
- Process monitoring include flow, level, pressure, pH, dissolved oxygen, etc
- Biological packed tower system with sludge recycle for enhanced performance
- Design incorporates a modular expandability and future add-on capability for changing needs

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