Identifying and Characterizing a Significant Industrial User

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Characterizing Industrial Users

Based on information and data gathered from:

Industrial Waste Survey

Facility Inspection

Follow Up Activities

Locally Significant Industrial Users

- Dependent on Local POTW
- Must understand local concerns
 - Local limits
 - POTW design capacities
 - Other pollutants of concern (loading issues)
 - Collection System conditions
 - Others?
- Notification of IUs of applicable Pretreatment Standards or Requirements

Characteristics of Pretreatment Standards

Characteristics	Categorical Pretreatment Standards	Local Limits and Conditions
Basis	Technology – BAT	Technical Evaluation
Type of Limit	Concentration / Production	Concentration / Mass Allocation
Objective	Establish Level Playing Field at the National Level	POTW and Biosolids protection, Workers, Environment
Application	End of Process, Treatment	End of Pipe

ALL INDUSTRIAL USERS NON-SIGNIFICANT SIGNIFICANT INDUSTRIAL **INDUSTRIAL USER USER (PERMIT) Not Significant Categorical User Sector Control Program Non-Categorical User** Oil & Grease (Locally Significant) **Sand Interceptor Silver Control Mercury Control**

Justification of Significance or Nonsignificance

- Sampling and Monitoring events, dependent on facility inspection
 - MSDS review
 - Inspection observations and information
- Must be representative of normal operating or production days
 - pH, flow
 - Conventional pollutants
 - Heavy metals, organics, CN,
 - Other POCs?

Locally Significant Industrial Users?

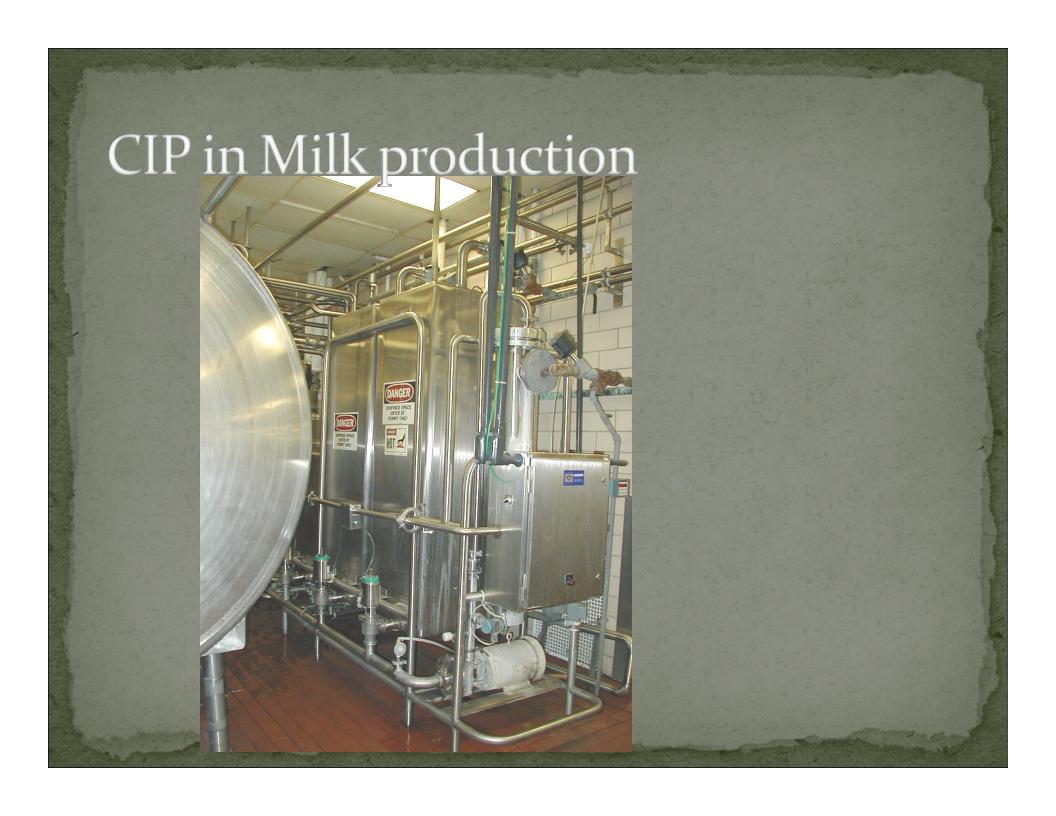
- Hospitals, Universities, Laboratories
- Dairies
- Bottling companies
- Food Service establishments (FSE) or manufacturing
- Garages, car washes
- Photo- and xray-processors
- Industrial Laundries
- Machine shops
- Bio-diesel
- Municipal drinking water plant and water softeners
- Micro-breweries

Case Study 1 – Dairy MFG

Production of:
 Milk
 Yogurt
Cottage Cheese
Ice Cream









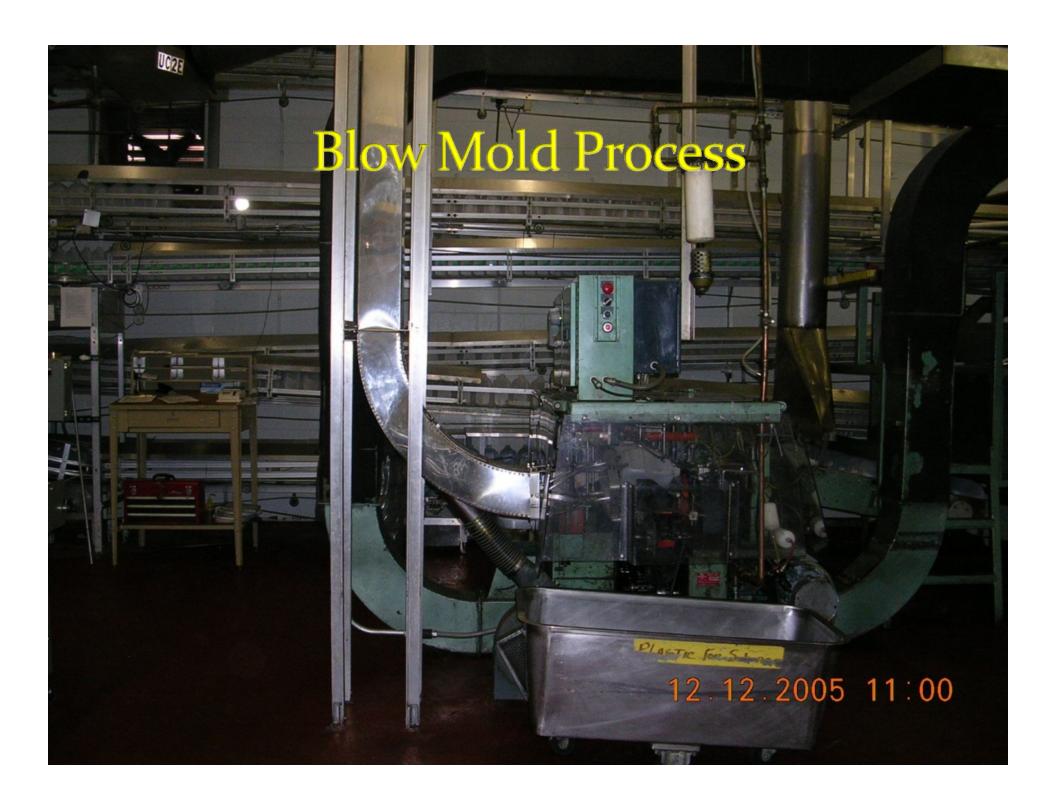




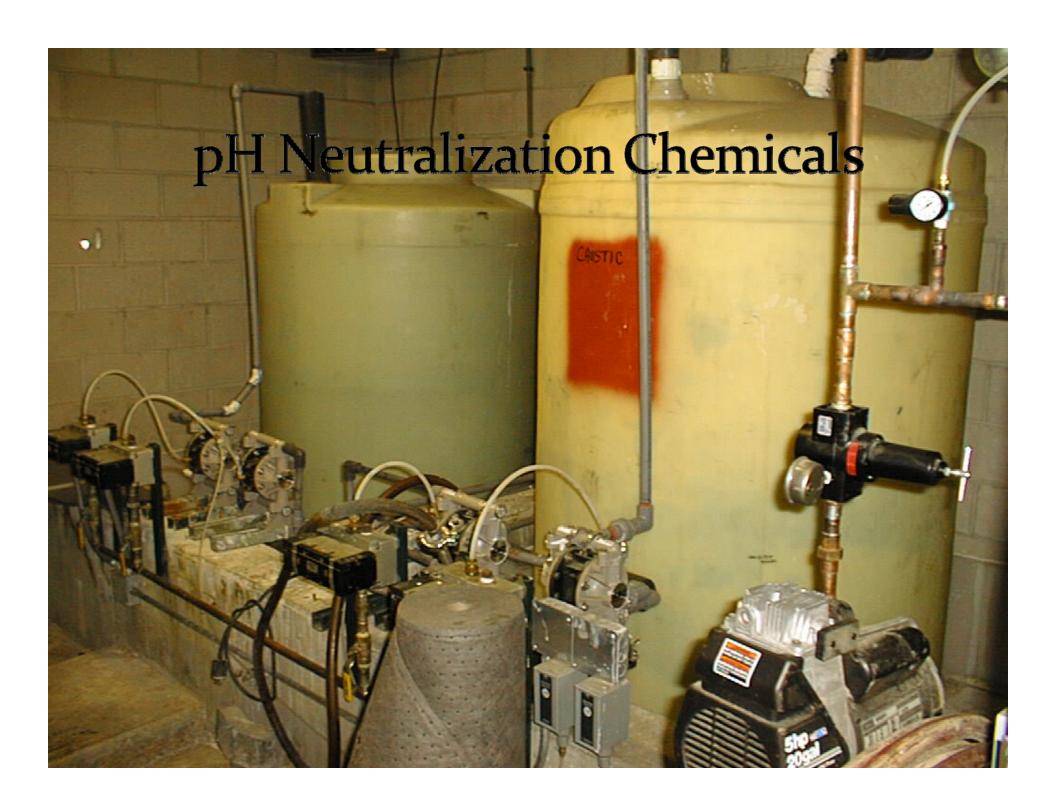














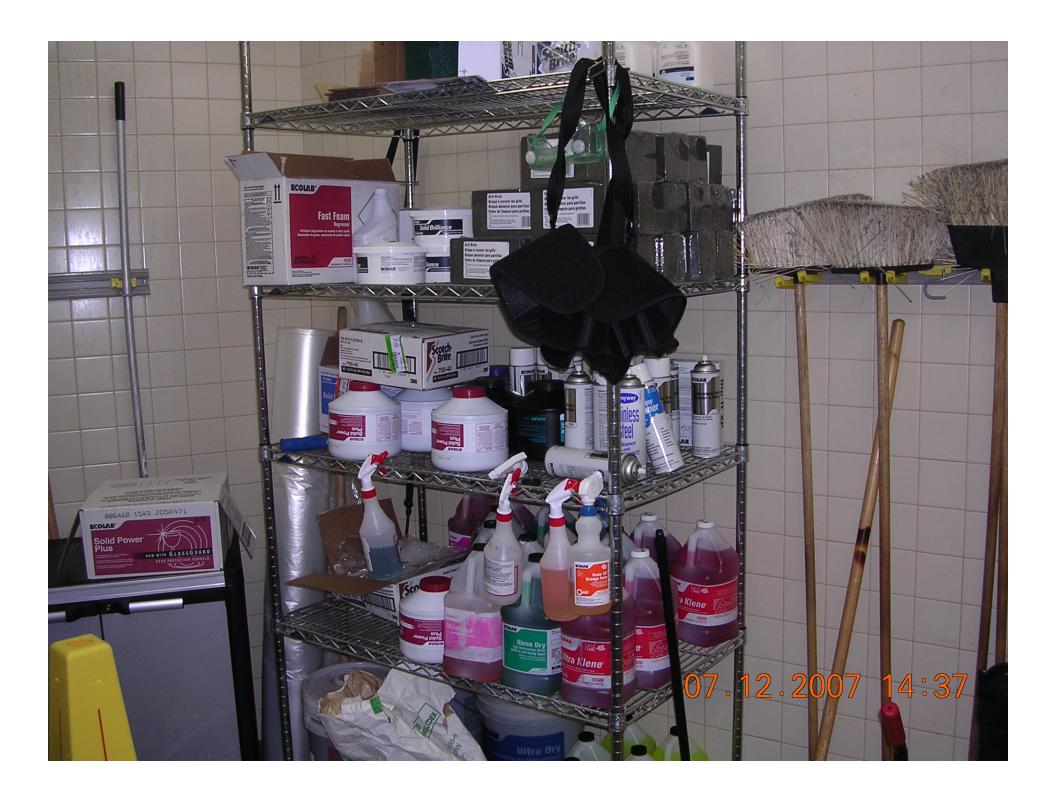
Pollutants of Concern - Dairy

- Conventional pollutants
 - BOD
 - TSS
 - Ammonia Slug Discharges
 - pH
 - Flow
- Spills and operator error
- Use of acids and caustics
- Many "day use" chemical locations

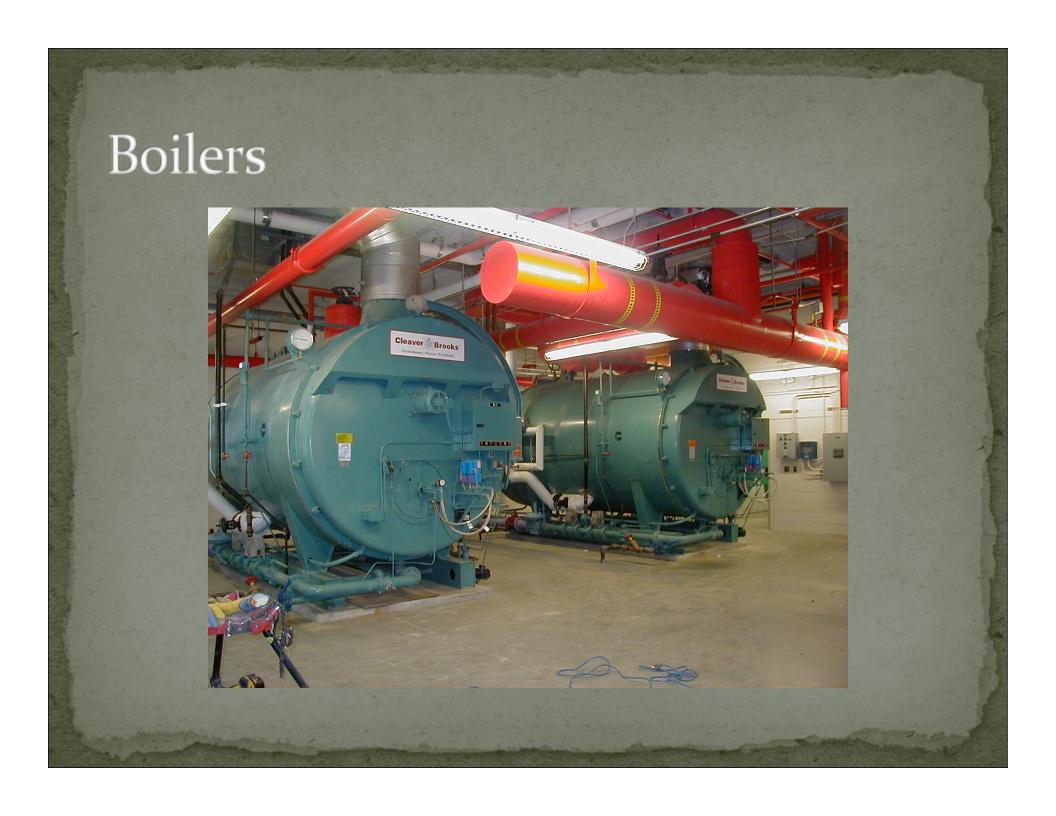
Case Study 2 – Hospitals

- General Patient Care
- Surgical
- Medical Laboratory
- Oncology
- Pathology/Morgue
- Radiology
- Cafeteria/Laundry/Housekeeping
- Power Plant
- Pharmacy
- Sterilization

Sterilization Units ODEX OPA **AirCleanSyste**









Cooling Towers



Pollutants of Concern - Hospitals

- Conventional Pollutants
 - BOD
 - TSS
 - Oil and Grease
 - pH
- Silver
- Mercury
- Molybdenum