

INDUSTRIAL WASTEWATER & OPERATIONS

WWTS for Wire Manufacturing

Industry: Metals-Working
 System: 30 gpm Waste Water Treatment System
 Location: Ohio
 Goals: Remove Suspended Solids and Heavy Metals

Project Overview:

Our prepackaged Waste Water Treatment System (WWTS) installed at a leading wire manufacturing facility utilizes Heavy Metals Precipitation, Clarification, Sludge Handling/Dewatering & Filtration to treat steel wire pickling/rinse line wastewater. The concept of system prepackaging in the Metals-Working industry significantly reduces on-site installation time & project cost.

Critical Issues:

Complex contaminants & varied flow
 Budget constraints & limited space restrictions

Stringent heavy metals discharge limits
 Fast-track, concept to completion

Vision for Solution:

- System prepackaging to reduce project execution time by 50%, cost by 30% and space requirements by 30%
- 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:

Concept Development
 System Fabrication
 Field Installation
 Ongoing O&M

Detailed Design/Engineering
 Controls Integration
 Commission/Startup



Equipment Description:

Equalization Tank
 Chemical Feeds
 Inclined Plate Clarifier
 Discharge Pumps
 PLC Controls

Influent Pumps
 Reaction Tanks Unit
 Sludge Handling & Filter Press
 Multimedia Filters
 Platforms/Stairs



Special Features:

- PLC controlled system with Panel-View Operator Interface for system automation
- Process monitoring include flow, level, pressure, pH, etc
- Pre-assembled Catwalks & Platforms on skids for ease of operations & maintenance
- Modular expandability for future changing needs
- Ongoing operations & maintenance for the first year