Rochester Meat Company Project

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Company Background

•Located in Rochester, MN

•Founded in 1971

•Merged with Holten Meats in 2007

•Produces over 60 million lbs. of beef

products a year





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Incentive to Change

•Biochemical Oxygen Demand (BODs)

•128 mg/L above domestic strength

•33% reduction needed

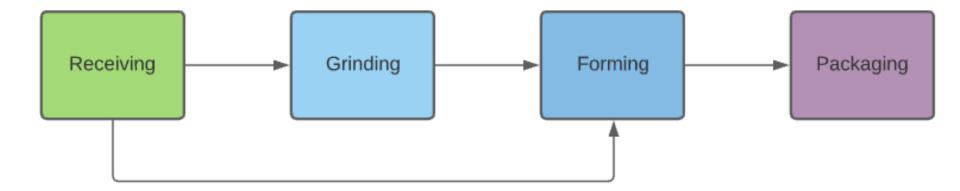
- •Total Suspended Solids (TSS)
 - •137 mg/L above domestic strength



•34% reduction needed



Process





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Observations

•Reports showed 50 lbs. / day reduction

needed to reach domestic strength

•Equipment in place to prevent wasted

product

•Sanitation process



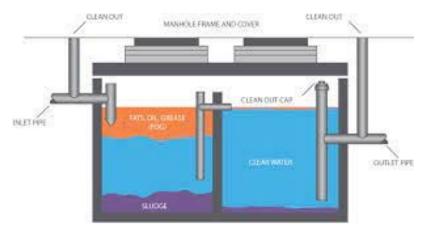




Brainstorming & Research

- •Researching grease traps
- Changing Procedures
- •Collecting data → 94 lbs. of product

collected





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Primary Recommendation

Implement dry cleaning procedures and

additional training

•Signs with reminders

Conveying the value to managers

•Implementing further training

STOP ALL MEAT SHOULD BE PICKED UP BEFORE SANITATION BEGINS INCLUDING PRODUCT ON THE FLOOR

NOTICE LEAVE DRAIN STRAINERS IN PLACE AT ALL TIMES DISPOSE OF CONTENTS PROPERLY AND RETURN STRAINER TO DRAIN



Additional Recommendation

•Opportunity: single pass cooling water

•Solution: recirculating water chillers

•Saves 3 million gallons of water a year (18%)

•Easy to retrofit





Solutions

Recommendation	Annual reduction	Total cost	Annual savings	Payback period	Status
Implement dry cleaning process	137 mg/L TSS 128 mg/L BODs	\$0	\$13,500	Immediate	Implementing
Switch to LED lights	246,000 kWh	\$0	\$24,600	Immediate	Implemented
Fix compressed air leaks	18,600 kWh	\$0	\$1,860	Immediate	Implementing
Fix production door gaps	101,350 kWh	\$3,200	\$10,100	2.2 months	Recommended
Install recirculating water chillers	2,900,000 gallons	\$22,700	\$13,500	1.7 years	Recommended



Personal Benefits

Meaningful Experience

Problem Solving

Creative thinking

Broader understanding



