



Ondeo Nalco

Ryan Kilgren, Sr. Environmental Engineering Student
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Project Title: Waste Minimization Solutions

Mr. Ryan Kilgren was assigned to Ondeo Nalco, located in Jackson, Michigan. The company is a chemical manufacture and packaging company that blends and distributes a variety of liquid products.

Ryan conducted investigations of waste minimization solutions at Ondeo Nalco. All of the sources contributing to the waste stream were studied to identify P2 opportunities. The extensive data collection allowed the intern to quantify the volumes of waste generated for several of the plant operations. The intern was able to increase employee awareness with the initiation of the "Waste Minimization Team." The program allowed plant personnel to participate in P2 activities with the use of visual aides. The effort increased employee involvement in waste reduction. Employees get firsthand experience at evaluating waste reduction ideas and problem solving. The combined savings for these solutions are estimated at 478 gallons per week, or 14,337 gallons per year. This represents 55 percent of the needed reduction to increase the number of days between waste pick-ups by one day. The potential cost savings for the solutions are \$6,600. .

