

Project Overview

Industrial Placement Intern: Allyson Lamb
Major: Environmental Studies
School: University of Nebraska- Lincoln



Project Description

Working with Public Health Solutions in Crete, Nebraska, as a Partners in Pollution Prevention (P3) program intern, Ally Lamb conducted comprehensive waste assessments for two schools in the Bruning-Davenport, NE School District, and for the Fillmore Central high school in Geneva, NE. She also completed a reassessment of past interns' work at Jefferson Community Health Center in Fairbury, NE and provided them with brief assistance to assist with planning for a remodeling project. Each assessment evaluated current practices throughout the facility, suggested new cost-saving and environmentally-friendly pollution prevention ideas, and provided a management report to help the business implement the new ideas.

Pollution Prevention Benefits and Results

The pollution prevention suggestions made were aimed toward waste reduction, reduced electricity usage, and decreased water usage. Benefits include cost savings, lower greenhouse gas emissions (CO₂e), safer workplaces and learning environments, and greater employee and student awareness of the environmental impact day-to-day practices. The potential direct benefits of the pollution prevention suggestions made varied between facilities. Results from the three waste assessment projects are summarized in Table 1 below.

Table 1. Potential Results of Suggested Pollution Prevention Practices

| FACILITY | MONETARY SAVINGS | ENVIRONMENTAL SAVINGS/YR |
|------------------------------|-------------------------|---|
| FILLMORE CENTRAL HIGH SCHOOL | \$12,500 | 1145LB SOLID WASTE 136,400 kWh ELECTRICITY 146,000 GALLONS WATER 130 MT CO ₂ E |
| BRUNING-DAVENPORT DISTRICT | \$14,800 | 1460 LB SOLID WASTE 223,800 kWh ELECTRICITY 160,000 GALLONS WATER 214 MT CO ₂ E |
| JEFFERSON COMMUNITY HEALTH | \$3,000 | 37.5 LB VOCs 5400 LB SOLID WASTE 292,000 GALLONS WATER 1 MT CO ₂ E |
| TOTALS: | \$30,300 | 37.5 LB VOCs 8,000 LB SOLID WASTE 360,200 kWh ELECTRICITY 598,000 GALLONS WATER 345 MT CO₂E |