

**Partners in Pollution Prevention Intern:** Rebekah DeFusco

**Major:** Biological Systems Engineering

**School:** University of Nebraska-Lincoln



### **Company Background**

Nova-Tech, Incorporated, an aseptic manufacturer of a variety of animal health pharmaceuticals, was founded in 1988 in Grand Island, Nebraska. Since moving to a brand new facility in 2011, Nova-Tech is one of the largest FDA-registered parenteral injectable manufacturers for animal health in the United States. Nova-Tech continues to grow and lead in the pure performance of aseptic manufacturing of animal health products.

### **Project Description**

In the summer of 2017, Nova-Tech sought assistance from the Partners in Pollution Prevention (P3) Program through the University of Nebraska-Lincoln to analyze the waste effluent discharge. Specific tasks included cataloging the different amount of product in the waste effluent that occurs in a year, analyzing the amount of water and sewer water use, and researching applicable and available governmental discharge regulations. Additionally, laboratory waste streams were cataloged and analyzed. The management reports compiled in this report include general and specific pollution prevention recommendations to reduce the amount of potential contaminants released.

### **Pollution Prevention Benefits**

Pollution prevention opportunities were identified that optimize discharges to the local publicly owned treatment work (POTW). The benefits of this reduction are not easily quantified, but the biggest benefit for the company is staying in compliance with wastewater regulations set by the city of Grand Island. Enhanced product capture will mitigate any potential environmental effects or fines and by creating a catalog of raw material discharges, Nova-Tech has shown due diligence.

### **Impact**

- Area of optimization found in the production of one animal health product
- Compliance assurance and improved product quality
- Saved at least \$14,000 by hiring a Pollution Prevention Program intern as opposed to hiring a private engineering firm, and allowed for a more in depth analysis of the issues.