

*GPM-Eliminator™ Pump Success Story*

## **Nothing Corny About GPM-Eliminator Pumps in the Ethanol Industry**

### **SUMMARY**

GPM-Eliminator submersible slurry pumps live up to the challenge of pumping corn mash waste in ethanol refineries.

### **THE CUSTOMER**

Midwestern biorefinery of fuel grade ethanol

### **THE CHALLENGE**

Corn mash waste - along with spent kernels and miscellaneous debris - can wreak havoc on sump pumps found in “wet wells”. Wet wells are strategically placed throughout ethanol plants to maintain a clean, safe and dry working environment. Wet wells are often located in the bowels of the refineries and become clogged with corn mash as it naturally compacts. Pumps such as AODD style, or lower quality submersible pumps can quickly become clogged. The costly remedies for a clogged wet well pump is either performing weekly maintenance, routine pump replacements, or hiring a vacuum truck to clean out the sump. Each of these unwanted scenarios has additional operation costs and wastes precious time.

### **HOW GPM HELPED**

Back to basics. At GPM, we consider it a best practice to step back and review the entire system before making any recommendations. In this case, the percentage of corn mash solids in the slurry and minimal sump agitation was causing most of the pump’s problems. It was also on the higher temperature range (110-180F) than many standard sumps, so the pump replacement had to meet or exceed the demands of all criteria. Based on the performance curve, a SBGTL2S10-4T4-9-S GPM-Eliminator was selected, ordered and installed.

### **THE RESULTS**

GPM-Eliminator’s spray hole casing sump agitation technology, along with the ability to pump up to 70% solids - even in high-temp applications - proved to be the difference. After over five years of operation without an issue, the pumps are still running strong and have allowed the refinery personnel to focus on what they do best, producing high-quality ethanol at a reduced cost.



Corn Mash



Spent Kernels