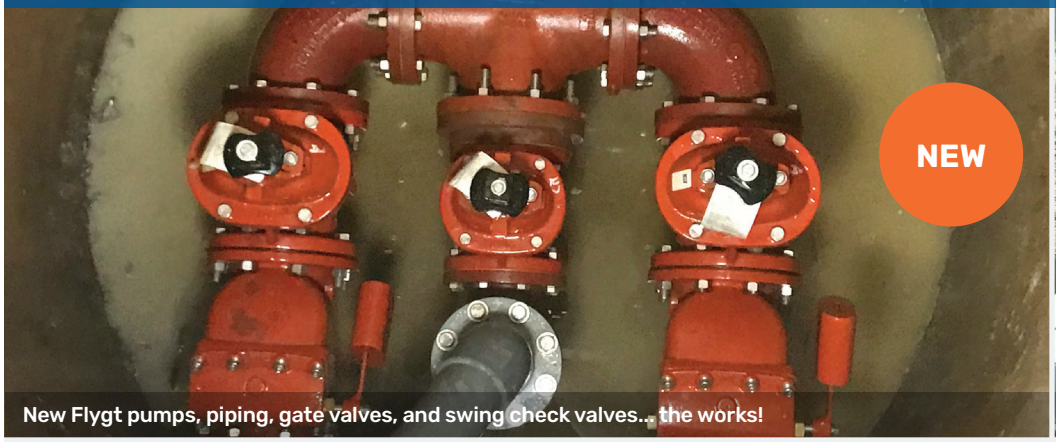
KENNEDY INDUSTRIES | INNOVATE SOLVE MONITOR REPAIR

PROJECT REPORT:
PUMP STATIONS UPGRADE
JANUARY 2020

Sheridan's Outdated Pumping System Screams to be Upgraded



New Flygt pumps, piping, gate valves, and swing check valves... the works!


New aluminum hatches and "Safety Grate"

The wear and tear on the pump stations of Sheridan, Michigan was exacerbated by outdated equipment struggling to handle today's heavy load of inorganic disposal.

PROBLEM:

Sheridan was experiencing repeated problems with the residential disposal of synthetic wipes, towelettes, and other inorganic items. It was fouling the pumps. Attempting to pull and service the pumps would be difficult given the deterioration of the original non-stainless rail system. There was also erosive wear at the pump bases, which caused for added blow-by. Many of the valves had become inoperable, and the inefficient design along with the pump impeller/base wear forced electrical and operational costs to rise. The wet well access hatch style and condition made for concerns about worker safety, which insurance carriers had noted. Even the alarming system used old land lines or only "red light" technology. In short, the system cried out for upgrading.

SOLUTION:

Kennedy Industries provided a turn-key package of materials, labor, and temporary bypass pumping while they upgraded all five pump stations. New high efficiency Flygt pumps with "N" style "Hard Iron" construction were installed at three locations. These pumps have a one-year "Clog Free" guarantee. New Flygt grinder pumps were installed at two locations. A three-phase design with conversion via VFD's was implemented. All five locations received new piping, valves, and check valves, with a new bypass at three locations. The rails, chains, and fasteners now use stainless steel. New aluminum hatch tops with a "Safety Grate" feature were added, as were access lids for valve operation from above grade. New modified pump controller units helped with system consistency, and a Mission cellular based alarming system was integrated, making all current and historical data accessible from any smart device.

Problem fixed. Client happy.


Access for above-ground operation

Controls with cellular communications

Deteriorated old pumping system

Kennedy Industries • 4925 Holtz Drive, Wixom, MI 48393 • 7425 Clyde Park Avenue, Suite G, Byron Center, MI 49315 • **Phone** 248-684-1200 or 616-490-1023