

Spencer Sewage Treatment

Location: Village of Spencer, Wisconsin

Industry: Sewage Treatment

Building Series: Legend™

Building Size: 55' x 62'



Cover-All Provides Sewage Treatment Plant Solution

The Village of Spencer Sewage Treatment Plant manages the sewage for a population of 1800 people plus sludge from a few surrounding large industries. The community required a building to cover two sewage tanks to prevent freezing problems. The two tanks hold 165,000 gallons each, enough storage space to last 180 days. The Wisconsin winters would continually freeze the sludge and hinder the growth of much needed bacteria that is needed to process the sewage sludge into fertilizer for agricultural use.

The Village of Spencer board decided that covering the two outdoor tanks would be a worthwhile investment to produce a consistent ag fertilizer product and to minimize winter maintenance issues. They decided to purchase a 55 by 62 foot Cover-All Legend™ building. "The building creates a solar effect and keeps the heat in during the winter," says Gerald Marden, Sewage Treatment Plant Operator. "Our aeration process to keep bacteria alive works at full capacity every day of the year now, we no longer have freezing problems."

"We looked at pole barns but the moisture and condensation would have easily rotted the wood and created algae growth on the walls. We would have also had an on-going maintenance issue to prevent the ventilation from freezing up," says Marden. "With the Cover-All building, the galvanized steel and fabric is not going to rot and any condensation problems are eliminated with the natural ventilation created by the six inch center ridge vent. The fabric cover provides a natural drying effect in the interior when the sun hits the fabric."

Installation of the building was done over the sewage tanks while the tanks were still in use. The foundation anchors were drilled into the concrete wall of the storage tanks. A crane was used to lift the Cover-All galvanized steel trusses into position. A zoom boom was used to install the cross purlins and the fabric cover. Installation of the building took only five days.

"I would recommend a Cover-All to anyone," says Marden. "We have far less machinery maintenance issues that were normally caused by ice build-up. The building went up very quickly and it blends in well with the surrounding buildings."



The 55 x 62 foot Cover-All® Legend™ building covers two 165,000 gallon tanks.



A crane lifted trusses into place while the tanks were still in use. A zoom boom was used to install cross purlins and to pull the fabric cover over the trusses.



Entrance ways were sealed by 6 x 8 foot steel roll up doors.



The six inch center ridge vent eliminates condensation problems and provides natural ventilation.

Building Highlights

Features:

- The Cover-All® Legend™ building prevents winter freeze up which enables the aeration process to work at full capacity
- Condensation problems are eliminated by the 6" center ridge vent
- A natural drying effect is created in the interior during sunlit days

Installation

- Foundation anchors were drilled into the concrete wall of storage tanks
- A telescopic boom lift was used to install the building over the filled sewage tanks
- Installation was completed in only 5 days