

Gorrell Dairy uses sand as a bedding material for its 700 head of cattle, but the sand was filling the manure storage facility, leaving no room for the manure. The solution was to create a sand separation area that would trap the sand while allowing the manure to be transported to a storage lagoon. The sand can then be reused saving the farmer the time and expense.

The challenge was to avoid disruption to the dairy operations. Using precast concrete meant minimal down time as well as allowing workers to proceed at a steady pace.

Within two weeks, Deihl had produced eight precast “scrape-in” hoppers, each 24-inches wide and 12-feet to 13-feet in length with rubber gaskets for pipe connections on each end. The depth varied from 1-foot-10-inches to 3-feet-2 inches to accommodate the slope needed to transfer the manure by gravity.

Deihl Precast was pulled into this unique and custom project by the Natural Resources Conservation Service (NRCS). Getting involved early on is the best way for precaster to assist in the solution. Deihl Precast suggested lining the precast hoppers with high-density polyethylene for easier manure transfer. The precast project also included drop manhole structures, junction manholes and a pump station. Since then the dairy has requested precast concrete water troughs.

TAKE A NEW LOOK AT PRECAST

Pennsylvania Precast Association • www.paprecast.org
Info@paprecast.org
© 2016 PPA

PRECAST CASE STUDY

PROJECT:
GORREL DAIRY

LOCATION:
EAST SMITHFIELD, PA.

PRECAST MANUFACTURER
DEIHL VAULT & PRECAST

