

Covered Composting System, CWRP

Project Number: 16-270-3P

Service Area: Calumet

Location: Calumet WRP

Engineering Consultant: To be determined

General Contractor: To be determined

Estimated Construction Cost: \$24,000,000

Contract Award Date: April 2017*

Substantial Completion Date: January 2018*



Project Description: The scope of work for this project is to design a covered composting system to be located at the Calumet WRP's East Drying Cells 5 and 6. The design shall utilize the GORE® system sized for 25,000 dry tons of annual production at 20 percent solids content. The GORE® system requires a biosolids feedstock with 15 to 25 percent solids content and a bulking agent (e.g. wood chips, yard waste, or shredded paper) to be mixed with the biosolids. The GORE® system consists of three phases: Phase I—High Rate Composting, Phase II—Maturation, and Phase III—Finishing. Each phase occurs at its own location. Phases I and II occur under a three-layer laminate cover in bunkers with four-foot high walls. The bunkers separate the compost piles and provide support for a cover winding system to easily install and remove the GORE® covers from the piles. No cover is needed in Phase III. A total of 36 bunkers are required for Phase I, and 18 bunkers are required for Phase II. Also included are conveyors to move material between phases, a receiving and mixing building, a biofilter system, blowers, and ancillary mechanical and electrical equipment.

Project Justification: The purpose of this project is to provide facilities at the Calumet WRP for high quality composted biosolids product to be marketed and sold. The system will produce an exceptional quality, Class A biosolids product, while containing nuisance odors generated during the process.

Project Status: This project is being designed.

*Information shown is estimated.