

Thornton Farms



QUICK FACTS:

- 468 Unit Affordable Housing Residential Community
- Surface Water Discharge
- 145,000 gpd



Thornton Farms is a single family subdivision located in Lima Township, Washtenaw County. The NPDES Surface Water Discharge Permit issued for this project established a phosphorus limit for treated effluent of 50 micrograms per liter. DEQ determined during the NPDES permit process that this extremely low phosphorus limit was necessary to protect water quality in the receiving stream, the Frey-Fitzsimons Drain. Boss Engineering designed a continuous flow activated sludge wastewater treatment plant with the Dyna Sand D2 tertiary filtration system to achieve the 50 microgram per liter phosphorus limit. The Thornton Farms wastewater treatment plant was the first treatment plant design approved by the Michigan Department of Environmental Quality to meet the 50 microgram phosphorus limit. The treatment plant design includes ultra-violet disinfection and a secondary aeration tank to insure proper oxygen levels in the discharge effluent. The project was constructed in the Fall of 2005

- Civil Engineering
- Surveying
- Planning
- Landscape Architecture
- Wastewater Treatment Plant Design



WHERE COMMUNITIES ARE BORN...