



GESTRA ENGINEERING INC

Geotechnical Engineering Infrastructure



Elm Road Power Generation

WE Energies expanded the Oak Creek Power Plant to increase the net output by 1230 MW. GESTRA Engineering performed site investigation work in the area of new construction. Field and laboratory testing completed by GESTRA Engineering and its sub consultants included: soil resistivity, pressure meter test, static cone penetration test, in-situ hydraulic conductivity (slug) tests, and observation wells.

Oak Creek 36-inch Water Main, Oak Creek, WI

The City of Oak Creek retained GESTRA to provide geotechnical engineering services for construction of a 9,000 foot long, 36-inch transmission water main from Chicago Road to Nicholson Road in Oak Creek, Wisconsin.



Landfill Gas Pipeline, Milwaukee, WI (under contract)

Veolia Environmental Services and MMSD are constructing a pipeline to convey landfill gas (LFG) from the Veolia Emerald Park Landfill to the Jones Island Water Reclamation Facility for direct burning in the Milorganite dryer burners. The length of the pipeline will be approximately 17.2 miles. GESTRA is providing geotechnical engineering services including subsurface exploration, field and laboratory testing, and geotechnical engineering report.

Waste Water Treatment Plant Improvements, Hebron, IL

The waste water treatment plant improvements included a sewage treatment control building, raw sewage pump station, influent screening, aeration tanks, final clarifiers, pump station, UV disinfection, aerobic digester and sludge storage lagoons. GESTRA performed geotechnical engineering services including drilling and laboratory testing, and prepared a geotechnical report presenting recommendations for foundations, site improvement, lateral soil pressure on below grade walls, service road design and construction considerations



Underwood Creek Projects, Milwaukee, WI

The Milwaukee Metropolitan Sewerage District (MMSD) is reconstructing approximately 2,200 linear feet of Underwood Creek, replacing the concrete channel lining with a meandering bio-engineered channel to re-establish aquatic and wetland habitat. GESTRA performed geotechnical engineering services including drilling and laboratory testing, and prepared a geotechnical report presenting recommendations on flow line, slope stability, erosion and scour control, service road design and construction considerations.

Geotechnical – Structural – Pavement – Construction Materials

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