

## KENTON JOHN YANG, PE

### Education

ME - Environmental Engineering, University of Florida, 2000

BS - Environmental Engineering, University of Florida, 1998



### Professional Licenses

Professional Engineer – North Carolina, 2004

### Professional Affiliations

Solid Waste Association of North America

### Professional Experience

He is a Project Director in our Raleigh, North Carolina, office, providing landfill engineering and solid waste management consulting services to the Carolinas and beyond. He has over 19 years of experience in civil and environmental engineering, with expertise in landfill siting and permitting; and facility design, operations, and construction management for municipal solid waste landfills (Subtitle D), CDD landfills, utility coal ash landfills, and household hazardous waste and multi-material waste and recycling convenience centers.

Kenton is experienced in solid waste facility site development projects, leachate management, and environmental regulatory compliance including air quality for landfills, landfill gas collection, control design, and operations. He has conducted a variety of solid waste management assessments and planning projects and sanitary sewer rehabilitation design and construction management.

He has worked with numerous counties and cities throughout North Carolina, serving as the client contact in addition to managing capital improvement projects, annual environmental compliance assistance, solid waste management plans, and on-call services.

He has conducted landfill site selection and site suitability permitting for a coal ash landfill for a power utility in the southeast, as well as design, permitting, and construction management for two of its phases. He assisted in landfill operational issues, including stormwater control and leachate management, and was responsible for site compliance associated with EPA's CCR rule.

Notable projects that he has been involved in are described below.

### Solid Waste Engineering

**Project Engineer, Air Quality Permitting, Onslow County, North Carolina.** He was the project manager and engineer for general air quality (Title V operating permit) permitting at the Onslow County landfill. Air quality reports that have been completed for the past 9 years include, semi-annual monitoring reports, emissions inventories, rate reports, renewals, Tier 2 testing reports, quarterly deviation reports, and GHG reports.

**Project Engineer, Construction and Demolition Permit to Construct, Cabarrus County, North Carolina.** He worked as project engineer, compiling the Cabarrus County Construction and Demolition (C&D) Landfill permit to construct on a new C&D cell. His efforts concentrated on writing the permit and

coordinating with the geotechnical/hydrogeological portions of the permit. He also completed the erosion and sedimentation control calculations required to size various erosion and sedimentation control measures.

**Project Manager and Engineer, Confidential Client, North Carolina.** He served as the project manager, engineer and construction manager for the siting, permitting, design and construction of an industrial landfill in North Carolina. He was involved in an extensive siting evaluation to identify the most beneficial site. The 86-acre landfill was sited and he served as construction manager for Phase I and Phase II.

**Project Manager and Engineer, Subtitle D Landfill Partial Closure, Wake County, North Carolina.** He worked as project manager and engineer for the permitting and design of the Unit A Partial Closure (24-acre area) at the South Wake Landfill. The design included an innovative stormwater management system using pipes in rock trenches in lieu of berms and swales. It also included a phased construction approach to allow for landfill gas to be maintained during construction to minimize down time of the landfill-gas-to-energy facility.

**Project Manager and Engineer, South Wake Landfill Improvements Project, Wake County, North Carolina.** The design included demolition of portions of the existing structures and construction of a new field office building, a new 7-bay convenience center, relocation of the landfill operator trailer, a new office/toilet building, Household Hazardous Waste explosion-proof units and canopy, additional canopy and other improvements to the multi-materials recycling facility, minor renovations to the existing transfer station and site improvements. Bed rock and buried waste were both considerations during design as was construction around and near a County emergency service tower.

**Project Engineer, Subtitle D Landfill Cell Permitting, Design, and Construction, Onslow County, North Carolina.** He worked as project engineer for the permitting, design, and construction of the Phase III Subtitle D Landfill expansion (15-acre area) at the Onslow County Landfill Facility. He compiled, wrote, and coordinated various sections in order to complete and submit for approval the Permit to Construct Amendment Application. He worked on the construction specifications and drawings. He coordinated general construction services and compiled the Construction Quality Assurance report for submittal to NCDENR.

**Project Manager and Engineer, Subtitle D Landfill Closure Permitting and Design, Onslow County, North Carolina.** He was the project manager and engineer for the permitting and design of Phase I Partial Closure (16-acre area) for the Subtitle D Landfill at the Onslow County Landfill Facility. He is coordinating the design and preparing the construction specifications and drawings.

**Project Manager and Engineer, Landfill Gas Feasibility Study, Onslow County, North Carolina.** He was the project manager and engineer for the Landfill Gas Feasibility Study for the Subtitle D Landfill at the Onslow County Landfill Facility. He prepared all landfill gas generation calculations, completed all gas piping size calculations and completed proposed collection system drawings.

**Project Engineer, Subtitle D Landfill Cell Design and Permitting, Delaware.** He was the project engineer for the permitting and design of the Cell 5 Disposal Area expansion (30-acre area) at the Delaware Solid Waste Authority, Southern Solid Waste Management Center. He compiled, wrote, and coordinated various sections in the Solid Waste, Air Pollution Control, and Stormwater and Sediment permit applications. He designed and modeled the active gas collection and control system for Cell 5. He coordinated bid documents submittal to the client.

**Project Engineer, Subtitle D Landfill Cell Design and Permitting, Delaware.** He was the project engineer for the permitting and design of the Area F Disposal Area expansion (60-acre area) at the Delaware Solid Waste Authority, Central Solid Waste Management Center. He compiled, wrote, and coordinated various sections in the Solid Waste, Air Pollution Control, and Stormwater and Sediment

permit applications. He designed and modeled the active gas collection and control system for Area F.

**Project Engineer, Subtitle D Landfill Cell Construction, Buncombe County, North Carolina.** He was the project engineer on the construction of Cell 6 at the Buncombe County Solid Waste Management Facility. Cell 6 is an approximately 23 acre new municipal solid waste cell at an existing site. The project began with the completion and approval by the state of the Permit to Construct. After approval, he was involved in writing and compiling the specifications and the design drawings. He helped in the bidding services and was heavily involved in each step of the construction.

**Project Engineer, Subtitle D Landfill Gas to Energy Facility, Buncombe County, North Carolina.** He served as the project engineer on the design of the landfill gas collection system for the landfill gas to energy facility at the Buncombe County Solid Waste Management Facility. The design included gas generation rates, pipe sizing, and vertical well spacing.

**Project Engineer, Landfill Site Study, North Carolina.** He was the project engineer, compiling the Black Bear Disposal Landfill site study for Waste Industries in North Carolina. This project was unique in the fact that it is a siting study for a new landfill. His efforts concentrated on contacting government agencies using the Solid Waste Regulations as a guide to the new landfill site. He also worked in compiling data for the site study using ArcView representation.

## Presentations

Yang, Kenton J. "Use of Drainage Blankets for Leachate Recirculation in Subtitle D Landfills." Presented at the NC SWANA Fall Technical Conference, Wrightsville Beach, North Carolina, August 2008.