

**OKM Engineering, INC. (OKM)** is a progressive and innovative engineering organization that offers engineering solutions for architects, developers, constructors, engineers, and environmental consultants. OKM specializes in geotechnical, environmental, and civil engineering design services. OKM is HUB/DBE certified. The principal of the firm has over twenty years of professional experience, and worked with top consulting firms spanning over the states of New Jersey, Delaware, Pennsylvania, New Mexico, and Texas for over ten years prior to starting OKM. In addition, OKM specializes in performing investigative studies in the areas of distress evaluation, erosion and sediment control, groundwater resources potential evaluation, contaminant transport, air dispersion, modeling, construction phase consultation and monitoring. Our basic services are listed below.

### **Geotechnical Services**

By utilizing our superior technical expertise in interpreting regulatory requirements, we provide specialized consulting services to produce scientifically acceptable, legally defensible, and cost-effective solutions in the following areas of geotechnical engineering practice:

- Highway Structures Foundation Design
- Slope Stability Analysis
- Building Foundations Design
- Shoring & Sheet Pile Design
- MSE & CIP Retaining Walls
- Bridge Scour Analysis
- Reinforced Soil Slopes/Stabilization Design
- Foundation Design for Elevated Tank/Tower
- Ground Anchors, Tie backs
- Subsurface soil/rock Exploration
- Distress Investigation & Litigation Support
- Geotechnical Testing

### **Environmental Services**

Our environmental services include:

- Water Quality Evaluation & Treatment
- Landfills (siting studies/groundwater Contamination Assessment)
- Leachate Collection System Design
- Stormwater Control & Management
- Permit Application/Regulatory Review
- Water Supply/Reservoir Engineering
- Contaminant Transport Modelling
- Correction Action Plan for Leaking UST
- Environmental Assessment (ASTM/NEPA)



### **Civil Engineering Services**

OKM offers a comprehensive range of services under general civil engineering consulting. Consulting services under this category range from transportation engineering to geoenvironmental studies. Basic general civil engineering consulting services at OKM include:

- Traffic Signal/Warrant Studies
- Origin/Destination Studies
- Traffic Count/Delay Studies
- Traffic Impact Analysis
- Construction Supervision & QA/QC
- Stormwater Pollution Control
- Water/Sewer Distribution System Design
- Pipelines Geotechnical Recommendations
- Hydraulic Structures Design
- Pavement & Drainage/Roadway Design

### **Water Resources Engineering Services**

OKM specializes in providing services in the area of hydraulic structures design including: conveyance channels drop structures and grade control, dams, outlet works, spillways, flood levees and floodwalls. Other areas of our firm's water resources engineering practice include:

- Hydraulics & Hydrology
- Watershed & Stormwater Management
- Flood Hazard Assessment & Mitigation
- Water Resources Planning & Management
- Groundwater & Surface water Modelling
- Groundwater Investigation & Aquifer Tests
- Water Wells – Design/Installation
- Erosion Control / Scour Analysis

### **OKM's Commitment**

OKM stresses value engineering, and best management practice. OKM achieves these

qualities by performing in-depth research on every project, consulting with other professionals recognized and respected by their peers for inputs, and reviewing of recommendations to ensure that our clients and the public are provided the highest quality of service. **By utilizing our extensive experience over the years in different areas of engineering practice, OKM can provide specialized consulting services to produce efficient solutions.**

### **Summary of Principal's Experience**

Dr. Morohunfola is the principal of the OKM, and has a wide range of experience spanning over nineteen years in both academic research, and professional engineering practice. Prior to starting OKM Engineering, Dr. Morohunfola served with two consulting firms based in El Paso, Texas, and Las Cruces, New Mexico between March 2001 and April 2002. He served as the Geotech/Geoenvironmental Group leader for the El Paso based consulting firm, and as the project leader in the areas of hydraulics & hydrology, and transportation engineering for the New Mexico based engineering consulting firm. Before that, and for over six years, Dr. Morohunfola served as a project engineer on various engineering projects involving design, analysis, and report preparation for geotechnical systems including



slope stability, piles, caissons, and pressure grouted intrusion footings, rock anchors and tieback systems on several Pennsylvania Department of Transportation (PennDOT) projects. For over three years, Dr. Morohunfola worked as a Project Engineer for the Nigerian National Petroleum Corporation (NNPC). The NNPC is responsible for exploration, exploitation, and management of petroleum resources generating over ten billion dollars annually. In 1994, Dr. Morohunfola also served as the United Nations Development Program's consultant to the National Water Resources Institute. Dr. Morohunfola has authored and co-authored a number of publications.

### **Why Use OKM?**

In geotechnical engineering and construction engineering practices, subsurface conditions, soil stability, groundwater earth pressures are issues of concern to designers and project owners. Designers are consistently required to extrapolate conclusions from analysis of limited number of samples based on general design guidelines, and that creates risk sometimes. Added to this are the owner's concern of time constraints, changing regulations, new technologies and public responsibilities that are everyday parts of reality. The result makes risk management in engineering seem like a hazard in itself. That is where OKM comes in. By utilizing our superior expertise, and wide range of the experience of our team of consulting engineers, and taking advantage of the advancement in information technology, OKM will deliver to its clients as promised. Finally, if you answer yes to more than fifty percent of the questions below, OKM will be your most logical choice. We are set up to be an extension of your firm.

- Do you get your calls returned promptly by the PE in charge?
- Have you ever had your work delayed because you are waiting for a review of design alternatives by the PE in charge?
- Did you ever wish that the consulting engineering services were an extension of your firm, in-order to ensure on time delivery of your product?
- Have you ever wondered whether a more aggressive involvement of a consulting engineer in the planning stage would have made a difference in your design approach, and final project cost?



### **Contact Information:**

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