

David J. Littlewood, P.E.

Consulting Engineer in Civil Engineering, specializing in Geotechnical Engineering, Concrete Design and Evaluation, Construction Materials Testing, Walkway Surfaces, Building Code Compliance, ADA Compliance, OSHA Code Compliance, and Structural Concrete Evaluation. Extensive experience in Sinkhole Evaluation and Remediation, Construction Management, Asphalt and Concrete Pavement Evaluation, Environmental Remediation, and Stormwater Compliance.

PROFESSIONAL ENGINEER: Pennsylvania

EDUCATION

Bachelor of Science Degree in Civil Engineering, Villanova University, 2000

Master of Science Degree in Civil Engineering, Villanova University, 2011

PROFESSIONAL BACKGROUND

2012-Present – Fleisher Forensics – Ambler, Pennsylvania:

Civil Engineer responsible for evaluating matters involving structural foundations; settlement; soil bearing capacity; soil stability; sinkholes; slope stability; retaining walls; river and stream engineering; dredging; landfill design; concrete quality control including mix designs, raw material quality, laboratory and in-situ performance testing, and code compliance. Consulting in code compliance and standards involving construction testing and inspections of soil, foundations, reinforced concrete, structural steel, parking lots/asphalt, walkways, steps, fireproofing, waterproofing, and Exterior Insulation Finishing Systems (EIFS). Consulting in health and safety compliance with OSHA standards, construction and industrial safety, walkway surface safety, and evaluation of project specific health and safety plans. Plan and project document review; and site inspections.

2011-2012 – Delaware Valley Concrete Co., Inc. – Hatboro, Pennsylvania:

Director of Quality Control and staff management. Responsibilities included ASTM International and American Concrete Institute (ACI) code compliance, maintaining of Northeast Center of Excellence for Pavement Technology (NECEPT) and National Ready Mixed Concrete Association (NRMCA) standards and practices, monitoring quality and consistency of raw materials, plant and field control of product, managing of soil and concrete laboratories at six plants, PennDOT field inspections, investigations of performance and quality issues, stormwater compliance, and obtaining/maintaining PennDOT and DelDOT certifications and related industry certification. Performed optimization of concrete mix designs which involved proportioning of sand, aggregate, cementitious materials, pozzolans, water, and chemical admixtures to achieve the required design parameters. Technical lead for design and construction projects including the complete re-construction of a ready mix concrete plant.

2009-2010 – Bureau Veritas, NA/Vertical V – Broomall, Pennsylvania:

Business Unit Leader responsible for engineering, design, and construction inspections of residential, commercial, and public works projects in Pennsylvania, New Jersey, and Delaware. Managed branch operations including oversight of technical staff, soil and concrete laboratory management, budget preparation, marketing and sales planning. Served as Engineer of Record for construction inspections which included: soil, concrete, structural steel, parking lots/asphalt, walkways, steps, fireproofing, waterproofing, and Exterior Insulation Finishing Systems (EIFS). Code compliance including IBC, ICC,

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ADA, and/or local municipal codes. Provided technical review and final certification for inspection projects. Responsible for coordination with PennDOT officials for acceptance testing for roadway openings. Performed landslide investigation and report which included soil samples, friction interface analysis, comparative surveying, slide geometry analysis, and determination of additional unstable conditions.

2005-2009 – Arcadis, Inc. (formerly known as Blasland, Bouck, & Lee) – King of Prussia, Pennsylvania: Senior Civil Engineer and Engineering Group Leader of the King of Prussia office. Project work in 20 states included: geotechnical design support for the Hudson River Superfund remediation dredging project for General Electric which involved processing facility design, foundation design, sheeting and shoring design, dredge sequencing, river bank stabilization and fortification; dam closures which involved sheeting, hydrostatic gradient analysis, and construction sequencing; structural foundation design and analysis for large tank structures which required foundation alternatives analysis, deep foundation design, and soil structure improvement analysis and recommendations. Managed environmental remediation projects which involved construction management, contractor awarding, budget management, and ongoing testing and monitoring program through multiple offices. Work also included stream realignment project which required plan preparation and design, permitting through Department of Environmental Protection (DEP), National Pollutant Discharge Elimination System (NPDES), and erosion and sediment control plan preparation. Oversaw health and safety for refueling station upgrades for Public Service Electric and Gas Company (PSE&G) in New Jersey. Responsible for quality assurance of site health and safety plan and OSHA compliance, specifically lock out/tag out compliance.

2001-2005 – Earth Engineering, Inc. – East Norriton, Pennsylvania: Senior Project Manager responsible for coordination and management geotechnical investigation design projects. Project experience included coordination with subcontractors, which involved contract review, scheduling, contractor selection, invoice and payment, work specification, work site direction, health and safety oversight, tool box talks with subcontractors prior to and during work performance, and change order review and approval. Design work included commercial and residential foundation analysis and design, test boring and test pit investigations, PennDOT roadway design, PennDOT bridge foundation design (Park Avenue Bridge over Perkiomen Creek), sinkhole investigations and remediation, retaining wall design, percolation testing, deep foundation design, foundation alternatives analysis, soil structure improvement analysis and recommendations, and preparation of geotechnical reports. Performed structural settlement investigations of residential homes and commercial structures which involved taking photographs, measuring settlement depth, crack analysis, subsurface investigation and analysis, and report of findings.

2000-2001 – Advanced GeoServices, Corp. – West Chester, Pennsylvania: Field Engineer responsible for geotechnical and environmental field work, construction inspections, and report preparation. Geotechnical and environmental investigation project work involved conceptual layout, surveying and field layout, plan review, subcontractor coordination and direction, soil sampling and visual classification, environmental sampling of soil and groundwater, boring/test pit logging, and decontamination of sampling equipment. Construction inspection tasks included foundation inspections, retaining wall inspections, bearing capacity verification, reinforcing steel inspection, concrete sampling and documentation, and construction safety. Performed design calculations and prepared graphics including slope stability analyses, bearing capacity analyses, foundation designs, cross sections and profiles for geotechnical reports.

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PROFESSIONAL ORGANIZATIONS

American Concrete Institute, ACI
American Society for Testing and Materials, ASTM
American Society of Civil Engineers, ASCE
National Ready Mixed Concrete Association, NRMCA
National Society of Professional Engineers, NSPE
Pennsylvania Society of Professional Engineers, PSPE
Northeast Center of Excellence for Pavement Technology, NECEPT
Pennsylvania Geo-Institute

CERTIFICATIONS

Concrete Technologist - Level 4, National Ready Mixed Concrete Association, NRMCA
Concrete Field Testing Technician - American Concrete Institute, ACI
Certified Aggregate Technician – Northeast Center of Excellence for Pavement Technology, NECEPT
Certified Ready Mix Concrete Plant Technician – PennDOT
Concrete Field Testing Technician - PennDOT/NECEPT
OSHA 40-Hour HAZWOPER Trained (1999-2001, 2005-2010)
Loss Prevention System (LPS) Trained (2005-2010)
Troloxer Nuclear Density Gauge Trained

CONTINUING EDUCATION

Concrete Durability Course, National Ready Mix Concrete Association, 2012
Concrete Technical Short Course, National Ready Mix Concrete Association, 2011
Aggregate Technician Certification Course - Northeast Center of Excellence for Pavement Technology, 2011
Principles of Project Management, University of California-Los Angeles Extension, 2008
Interface Friction/Direct Shear Testing & Slope Stability Issues, TRI Environmental, Inc, 2006
Foundation Engineering, University of Wisconsin-Madison, 2006

ARTICLES & PUBLICATIONS

Long-Term Field Performance of Pervious Concrete Pavement. Advances in Civil Engineering. Volume 2012. (2012)

CONFERENCE ATTENDANCE

Technical Knowledge and Innovation Conference, Arcadis US, Inc., Atlanta, GA, 2009
Globalcon Conference and Expo, Philadelphia, PA, 2011