



John J. Holshouser, PE

Senior Engineer

Education

BS, Biological Engineering
North Carolina State
University, 1999

Year Joined AMPHION

2011

Years of Experience

Since 1999

Professional Registrations

Professional Engineer – North
Carolina, Illinois

Additional Certifications

Certified Welding Inspector
API 653 Certified Tank
Inspector
Certified Documents
Technologist

Mr. John Holshouser has been a Professional Engineer with Amphion Analytical Engineering, P.A. since 2011. He has experience in mechanical integrity assessment, construction testing and oversight, stormwater design, water/wastewater design, and contract administration since 1999.

Mr. Holshouser specializes in performing inspection and analysis of aboveground storage tanks, below-ground dry wells for wastewater pump stations, pressure vessels, piping, equipment, and vessels at various manufacturing facilities, municipal wastewater systems, textile facilities, chemical plants, and various other industrial facilities. He has extensive experience with ultrasonic inspections, magnetic particle inspection, dye penetrant inspection, and visual weld inspection.

Mr. Holshouser is a licensed, professional engineer in North Carolina and Illinois.

Mechanical Integrity

Performed mechanical integrity inspections and analysis of above ground storage tanks, below-ground dry wells for wastewater pump stations, pressure vessels and piping at chemical plants, equipment and vessels at various manufacturing facilities, municipal wastewater systems, textile facilities, and various other industrial facility evaluations. The analyses were performed under various guidelines such as the American Petroleum Institute (API), American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, and the National Board Inspection Code (NBIC) to meet recognized and generally accepted good engineering practices (RAGAGEP). The work included performing field inspections, non-destructive testing, performing appropriate engineering calculations and design checks, making recommendations for continued maintenance and repairs, development of repair procedures, oversight of repairs as required, and detailed reporting of inspections and analysis data to meet client and/or appropriate code requirements.

Wastewater Effluent Storage Tank Inspection and Repair

Performed coating inspections and structural integrity inspections of a 100,000 gallon elevated effluent water storage tank for a Wastewater Plant. Assisted client in selection and specification of new coatings, design of tank internal repairs and safety upgrades, and provided construction oversight of tank repairs and painting.

Municipal Design and Inspection

Participated in design of water, wastewater, and stormwater projects for various municipalities.

Water Treatment Plant Improvements

Participated in design and permitting of water treatment plant improvements including flocculation, sedimentation and filtration train upgrades to a 2 MGD water treatment plant to increase the design flow to 4 MGD. Services provided also included on-site construction oversight to verify the installation met contract conditions, and to provide expedient closure to any requests for information from the contractor or changes requested by the client.

Waste Water Treatment Plant Design

Designed non-potable water distribution system for a wastewater treatment plant for process use across the facility.

Water Main Construction Oversight and Administration

Provided construction oversight and contract administration for 8 miles of 8-inch diameter water main.

Sanitary Sewer Construction Oversight and Administration

Provided construction oversight and contract administration for extensive sanitary sewer replacement and rehabilitation.

Stormwater Design

Provided design and permitting services for multiple community level stormwater projects including water and sewer replacements to accommodate the stormwater improvements, stormwater pipes up to 60-inches in diameter, and box culverts up to 14'x6' in size. Projects included work in historical areas, sensitive watersheds, extensive erosion control and water quality design, work in NCDOT rights of ways, and road realignments. Provided design and permitting services for a community level stormwater improvement project. Project included redesign of the existing stormwater system and realignment/replacement of existing water and sewer utilities as needed to accommodate the new stormwater improvements.

Construction Inspection

Provided third party inspections on numerous construction projects which included testing of soils, concrete, and fireproofing in commercial and residential structures. Provided International Code Council (ICC) inspections of masonry. Provided structural steel construction oversight and visual weld inspection on structures.