

Geotechnical & Environmental Consulting
Soil & Material Testing
Special Inspections Services



Barron & Associates, P.C.

www.barronandassociatespc.com





Barron & Associates, P.C. provides geotechnical and environmental consulting and special inspections services to the developers and design firms of Western New York.

Our investigations and services provide answers to questions concerning the surface and subsurface conditions on a site specific and design compliant basis. Our small firm appeal is created from easily accessible and quick responding professionals and staff.

Our regional expertise, comprehensive approach and innovative designs lead to better defined site conditions and a reduction in project costs. We work closely with our clients to achieve the most practical, timely and cost saving solutions to their problems.

Our Services

Geotechnical & Environmental Consulting
Soil & Material Testing
Special Inspections Services
Design/Build Services

Barron & Associates, P.C. (B&A) is an engineering consulting and testing firm specializing in geotechnical and environmental studies and providing design recommendations. B&A's predecessor, James S. Barron, P.E. Consulting Engineers, P.C. was originally formed by Mr. Barron in 1988. In response to the steady increase in requests from clients, the professional staff has been augmented with the addition of engineers, geologists, hydro-geologists, scientists and technical staff experienced in subsurface studies, project management, environmental regulations, permitting and material testing. With the expansion of the professional staff and the acquisition of professional liability insurance, the firm changes its name to Barron & Associates, P.C. in 1996.

Located at 10440 Main Street (NYS Route 5) in Clarence, New York, B&A's senior personnel have between 10 to 30 years experience each in their representative fields of expertise and are 40-hour OSHA HAZWOPPER certified. To compliment the senior staff, a fully-equipped soil and material testing laboratory was established with several staff level geologists and technicians available to undertake material characterization and site inspection services. In 2004, a separate facility was constructed at 12340 Main Street (NYS Route 5) in Akron, New York to house the laboratory and provide additional office space to the staff level geologists and technicians.



Geotechnical

B&A has acquired extensive experiences in and provides services for:

- » Subsurface exploration and laboratory testing methods
- » Foundation excavation dewatering systems
- » Hydro-geologic site evaluations
- » Drainage well design and construction
- » Earth retaining structure design
- » Slope stability, inclinometer installation and data acquisition
- » Quality control for drilled piers with cross-hole sonic logging techniques
- » Expert witness on geotechnical and hydro-geologic issues
- » Geological Hazard Site Assessment - Potential landslides, earthquakes, floods, former mines and/or radon

Foundation designs include numerous retail stores and plazas, senior housing communities and industrial complexes for such high profile clients as: The Home Depot, USA, Walgreens, Rite-Aid, Kohls Department Store, McDonald's and several other well known land developers both residential and commercial.

Design of high capacity deep foundation (i.e., piles and drilled piers) and earth retention systems have been provided for several multi-story hotel, office, university and municipal structures and projects requiring deep excavations.

Environmental

B&A has extensive experiences and expertise in the following areas:

- » NEPA and SEQR site assessments.
- » Phase I and Phase II environmental site assessments.
- » Subsurface investigations including soil borings and well installations.
- » Groundwater monitoring, sampling, and aquifer testing.
- » Tank closures and remedial excavations.
- » Non-hazardous and hazardous waste management including characterization, separation, transportation, and recycling/disposal.
- » In-situ and ex-situ treatment of soils and groundwater.
- » Analytical testing characterization and data interpretation.

B&A has provided services for several types of clients including general contractors, developers, non-profit organizations, private property owners, property sellers and public departments.

We work in conjunction with several approved local analytical laboratories for soil and water testing with current procedures and standards.

Special Inspections

B&A has extensive experiences and expertise in the following areas:

- » Foundation bearing inspections.
- » Cast-in-place concrete and masonry inspections.
- » Wood frame construction.
- » Structural steel.
- » Moisture density (compaction) testing by nuclear method.
- » Cross hole sonic logging (drilled pier integrity evaluations).
- » New York State pollutant discharge elimination systems permitting (SPDES).
- » Storm water pollution prevention plan inspections and reporting (SWPPP).

B&A provides these services in support of construction, development and design professionals for quality assurance and control purposes. Our senior staff and technicians have a vast knowledge of construction and engineering practices and are certified by multiple agencies including; ACI, AWS, APWA, CPN, Troxler, OSHA, and NYS DEC.

Field Testing Equipment

B&A owns and operates numerous pieces of field testing equipment:

- »» Pile Dynamics, Inc. Cross-Hole Analyzer (CHA) and associated tooling.
- »» Durham Geo Slope Indicator Digitilt Inclinometer Probe, DataMate Data Recorder and DigiPro Software.
- »» Durham Geo Slope Indicator Water Level Indicator (300 feet).
- »» FACE Dipstick 2200 Floor Profiler.
- »» MiniRAE 2000 Photoionization Detector (PID).
- »» GfG Instrumentation G450 Four Gas Detector.
- »» Wagner Electronics Rapid RH (Relative Humidity) System.
- »» L&R, Inc. Mini-Res Resistivity Meter and Sensor Array.
- »» Cole Palmer pH and Conductivity Meters.
- »» Pentax R-315 Total Station with Horizon Prism and Poles.
- »» Pentax Optical Level.
- »» CPN and Troxler Nuclear Density Gauges.
- »» James Instruments, Inc. NDT Rebound Hammer.
- »» GeoVision Down-Hole Inspection Video Camera.
- »» GeoProbe Rigs and specialty tooling for soil & water sampling.



Barron & Associates, P.C.

10440 Main Street

Clarence, NY 14031

Phone: 716-759-7821 | Fax: 716-759-7823

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info@barronandassociatespc.com