

## EDUCATION

- Mansfield University, Mansfield, Pennsylvania
- Fisheries Biology - Graduated - 1986

## CERTIFICATIONS

- OSHA 40-Hour Hazardous Waste Operations Safety and Health Training - 1989
- Troxler Certified - 1999
- EDR Due Diligence at Dawn - 2000
- ACI Level I Certified - 2000
- NICET Level I - 2000
- Rutgers Threatened & Endangered Species Certificate - 2001
- ASTM Technical and Professional Training for ASTM-1527 & 1528, April 2001
- 38-Hour ACOE Wetland Delineation & Management Training Program - 2001
- Rutgers Lake Management Certificate - 2002
- Erosion and Sediment Control Site Planning - 2005
- Design and Implementation of Erosion and Sediment Control Practices - 2005
- Design of Stormwater Ponds and Wetlands - 2005
- Certified Professional in Erosion and Sediment Control - # 3724
- Rutgers Freshwater Wetland Construction -2007
- Rutgers Advanced Wetland Delineation - 2008
- Certified Professional in Storm Water Quality - # 0439

## PROFESSIONAL EXPERIENCE

- **Managing Member, Ecological Analysis, LLC - 2009 - Present**  
Responsible for day to day operations of an environmental and planning consulting firm that specializes ecological, environmental, storm water and wetland services to advance projects.
- **Senior Environmental Scientist/Wetland Ecologist, Environmental Division, Tim Miller Associates, Inc., Cold Spring, NY - 2003 - June 2009**  
Responsible for environmental impact analysis, wetland and ecological studies, wetlands delineation, wetlands mitigation, and wetland permitting with local, state and federal agencies.

Specific project experience with Tim Miller Associates:

- Erosion and storm water monitoring on large residential development projects in Westchester, Putnam and Orange Counties, NY.
- Laurels of Fallsburg, a 264 unit development in Fallsburg, NY, wetland delineation, state and Federal criteria; impact assessment, habitat assessment; stream disturbance and crossing permit, New York State Environmental Quality Review Act (SEQRA) approval with Town Planning Board.
- Flora and fauna studies, including endangered species, in Dutchess, Orange, Putnam, Sullivan, and Westchester Counties.
- Completed numerous wetland delineations according to Army Corp of Engineers (ACOE) guidelines, New York State Department of Environmental Conservation (NYS DEC) policy, and local regulations in Dutchess, Orange, Putnam, Sullivan and Westchester counties. Received ACOE Jurisdictional Determinations (JD), NYSDEC sign-off's and local wetland verifications in these counties.
- Completed stream, wetland, and wetland buffer impacts and crossing permit applications, and have received permits in Dutchess, Orange, Putnam, Sullivan and Westchester counties.
- Completed wetland delineation and permitting for a pond in a NYS DEC wetland buffer.
- Completed wetland delineation on two adjacent properties (combined 750 acres) in Dutchess County. Placed 13,000 wetland flags on the two parcels. Received an ACOE JD, and NYS DEC signed off on the delineation.
- Completed wetland delineation on a 2200-acre parcel in Sullivan County.
- Completed wetland delineation on a 1000-acre parcel in Sullivan County.
- Completed wetland delineation on an 860-acre parcel in Orange County.
- Completed wetland mitigation projects at Hollow Brook Golf Course, the Hackley School and others.
- Designed, represented and had approved wetland mitigation plans for several residential projects in Orange, Putnam, Sullivan and Westchester counties for town, state and federal wetlands.
- Project representation for environmental issues in Westchester and Sullivan Counties.
- Environmental Site Assessments (ESA) - completed site visits, data review and prepared reports for projects in New Rochelle, Fallsburg, Carmel, and Patterson, NY.

## **PUBLICATIONS**

- Development of an efficient technique to promote the inflation of swimbladders in tank-reared striped bass. New York State Chapter of the American Fisheries Society - 1988.
- Larval striped bass survival during weaning from *Artemia nauplii* to three commercial diets. American Fisheries Society - Fish Culture Section Newsletter - 1989.

## ● **PROFESSIONAL EXPERIENCE - continued**

- **Tectonic Engineering & Surveying Consultants, P.C., Mountainville, New York - 1999 - 2002**
  - As Environmental Scientist, responsible for the preparation and writing of ESA reports, National Environmental Protection Act (NEPA) reports, Environmental Assessment Forms (EAF) and NYS SEQRA reviews. These responsibilities include: contacting local, state, and federal agencies to obtain information on specific site conditions, site visits, and other background checks to find out the environmental history of a given property and potential impact of proposed actions. Responsibilities also include resolving endangered species and wetlands issues and wetland delineations on numerous sites.
  - As Engineering Technician, responsible for construction inspection, laboratory testing and surveying. Construction inspection responsibilities include: erosion control inspections, concrete inspection (casting of cylinders, slump testing), earthwork construction (density testing of compacted soils), verification of backfill placement and construction inspection (size, spacing, placement), roadway construction (asphalt paving and installation of underground utilities) and masonry inspection (masonry walls, including sampling of mortar and grout). Laboratory testing responsibilities include concrete compressive tests, proctor tests gradations and Atterberg limits and moisture content of soil samples.

### Specific project experience with Tectonic:

- Village of Warwick Dam Dredging and Dam Restoration Project: Environmental Scientist. Prepared all permit applications for dredging of the Village of Warwick's Lower Reservoir, including a Long Form EAF, a joint application dredging permit, and a sediment sampling plan. Collected sediment samples and plotted their location by latitude and longitudinal coordinates. Obtained fish removal permit and coordinated the removal of fish and the dredging of the reservoir. Also coordinated SEQRA scheduling and review process for the dredging project. During the reconstruction of the dam, monitored erosion controls and was on-site construction inspector.
- William Weidman Property - Wetland Delineator. Conducted a wetland delineation in accordance with federal and state regulations for a proposed residential development.
- Numerous Proposed Residential Developments - Wetland Delineator. Conducted site visits to determine the presence or absence of federal and state wetlands prior to residential development.
- Village of Greenwood Lake, Maintenance Dredging of Channel in Greenwood Lake - Environmental Scientist. Prepared permit applications for maintenance dredging of the boating channels in Greenwood Lake. Worked closely with the ACOE during the dredging application process.
- Nextel Communications sites throughout New York, Connecticut and Massachusetts - Environmental Scientist. Conducted Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted Federal Communications Commission (FCC) NEPA and State Historic Preservation Office (SHPO) evaluations for cellular relay locations. Delineated wetlands as per ACOE guidelines on numerous sites.
- Music Sales Warehouse Addition, Chester, New York - Environmental Scientist. Conducted a site survey for an endangered species (Bog Turtles) and obtained a letter of concurrence from the NYS DEC that project would have no effect on the endangered species.

● **PROFESSIONAL EXPERIENCE - continued**

- Crown Castle, LLC, sites throughout New York - Staff Environmentalist. Conducted ESA Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted FCC NEPA and SHPO evaluations for cellular relay locations. Resolved endangered species issues on numerous sites.
  - Independent Wireless One PCS sites throughout New York - Staff Environmentalist. Conducted ESA Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted FCC NEPA and SHPO evaluations for cellular relay locations.
  - Triton PCS sites throughout Virginia - Staff Environmentalist. Conducted ESA Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted FCC NEPA and SHPO evaluations for cellular relay locations.
  - Kings Estates Residential Development, Warwick, New York - Construction Inspector. Performed inspections of the placement of asphalt (base and top-coat) and compaction tests of a new roadway to meet NYS Department of Transportation (DOT) specifications.
  - Ridge Homes Residential Development, Warwick, New York - Construction Inspector. Performed inspections and oversaw the installation of sewer and water lines for a residential development. Verified proper backfilling and compaction and prepared daily field reports.
  - Kingsbrook Homes Residential Development, Wawayanda, New York - Staff Environmentalist. Performed inspection of the installation of a 24-inch storm drain line with catch basins and a new roadway to meet NYS DOT specifications.
  - Wickham Water District, Warwick, New York - Staff Environmentalist. Performed 72-hour well pump tests for a municipal well.
  - Sprint PCS sites throughout Rockland County, New York - Staff Environmentalist. Conducted ESA Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted FCC NEPA and SHPO evaluations for cellular relay locations.
  - Georgia PCS Sites throughout Georgia - Staff Environmentalist. Conducted ESA Phase I site evaluations for cellular telephone relay locations in both rural and urban areas. Conducted FCC NEPA and SHPO evaluations for cellular relay locations.
  - Rifton Airport Hanger, Newburgh, New York - Construction Inspector. Performed inspection of erosion controls, soil compaction for grade and subgrade materials, as well as the placement and testing of concrete for the inside of the airplane hanger and runway apron. The NYS DOT and Federal Aviation Authority regulated the project.
- **Jenny Brook Trout Farm, Nappanoch, New York - 1994 to 2001**
    - As a Fish Farm Owner/Operator responsible for the daily operations of the farm. Duties included the stocking of ponds, transportation of fish across state lines, selling of fish to various restaurants and resorts. Obtained and maintained all permits with the NYS DEC and local municipal authorities.
  - **Cintichem, Inc., Tuxedo, New York - 1991 to 1997**
    - As an Environmental Technician, responsible for well sampling, soil and sediment sampling, sample preparation, sample analysis, sample storage, environmental sampling for air, water, soil, biological organisms, sediment and plant life for radiological isotopes. Also responsible for acquiring scientific collection permits and monthly SPDES (water discharge) reports to the NYS DEC.

● **PROFESSIONAL EXPERIENCE - continued**

• **Western Aquatic Resources, Inc., Delano, California - 1989 to 1991**

→ As a Senior Biologist/Nutritionist, responsible for all biological activities and technician supervision in a multi-species fish farming operation. The operation was an indoor water recycling system that was 10 acres in size and recirculated up 3,000 gallons per minute of water through its water treatment centers. Experienced in the intensive rearing of channel catfish, striped bass and white sturgeon from egg sac larvae to food fish size. Responsible for the technical supervision and scheduling of up to 40 technicians, complete hatchery set-up, spawning of striped bass, and nutritional status and feeding regimens for all three fish species.

• **Lawler, Matusky & Skelly, Pearl River, New York - 1989 to 1989**

→ As an Environmental Technician, responsible for impingement sampling at power plants, well sampling, sediment sampling and laboratory analysis of water samples. Collected numerous sediment samples throughout Greater New York Harbor and Jamaica Bay, NY. Experienced in the taxonomic identification of freshwater and marine fishes throughout the eastern United States.

→ Numerous 316A & 316B studies on the Hudson River for the different power companies.

• **E.A. Science and Technology, Inc., Newburgh, New York - 1985-1989**

→ As an Assistant Hatchery Manager, responsible for the capture and spawning of the broodstock. Fish rearing from hatching through the fingerlings reaching 3-6 inches in length. The fingerlings were used for the public utility stocking of the Hudson River. Also responsible for all day-to-day operations including: task scheduling of up to 7 technicians, facility maintenance (including pumps, generators, microscreens and ultraviolet sterilization systems), fish feeding and grading, and year-end report preparation and writing for the client and NYS DEC.

→ As an Environmental Technician, responsible for project coordination and for the impingement and entrainment sampling for numerous types of traveling screens for most of the nuclear and conventional power plant facilities from Newburgh, NY, to Bergen, NJ. Performed fisheries collections, sediment sampling, measurements of water quality parameters, and water quality instrument calibration and maintenance for various regional environmental sampling programs.

→ Numerous 316A & 316B studies on the Hudson River for the different power companies.

• **Aquatic Systems, Mecca, California - 1986 to 1987**

→ As a Fish Culturist, responsible for the intensive rearing of striped bass, hybrid striped bass, white sturgeon, tilapia, and channel catfish, and the supervision of 1 or 2 technicians.

• **Normandeau Associates, Inc., Verplanck, New York - 1986**

→ As an Environmental Technician, responsible for impingement sampling for a fine mesh power plant intake screen study and served as a deck hand on fisheries research vessels conducting intensive fisheries and ichthyoplankton sampling throughout the 150-mile long Hudson River estuary and an otter-trawling program throughout the Greater New York Harbor.

→ Numerous 316A & 316B studies on the Hudson River for the different power companies.