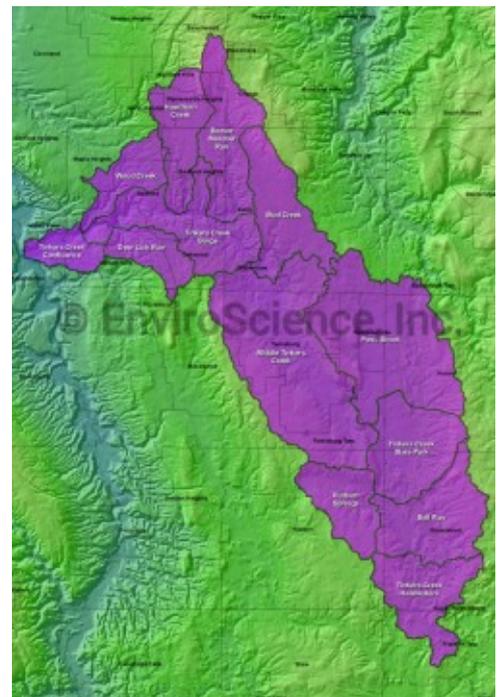


Wetlands & Streams

What is a wetland?

Wetland areas are protected by both the federal and the state government in accordance with the Clean Water Act of 1970 and subsequent regulations.



Tinkers Creek Watershed
Wetland Assessment

Delineation Services: EnviroScience has performed wetlands delineations on properties ranging in size from one to 6,000 plus acres, ranging from nearly pristine to severely-disturbed landscapes. EnviroScience scientists are fully trained in the current methods of wetlands delineation (according to the 1987 USACE Delineation Manual and current Regional Supplements) and survey techniques using a state-of-the-art Trimble® differential GPS. GPS data collection allows EnviroScience to prepare wetland maps without the need and additional cost of traditional survey teams. The survey map and flagging of

wetland boundaries provide a strong planning tool for any project involving changes in land use. Delineation reports are completed to suit the client's project- specific needs while complying with state and federal reporting requirements. Wetland maps are prepared using AutoCAD® or ArcGIS® software and are available in digital format to ensure compatibility with construction drawings.



River Chub *Nocomis micropogon*

Wetland Permit Applications/Water Quality Certification Applications: Projects requiring unavoidable impacts to wetlands require USACE and/or EPA approval. EnviroScience prepares and submits application packages for clients applying for Section 404 permits, Section 401 Water Quality Certifications, and Isolated Wetland Permits. EnviroScience biologists have an excellent reputation with regulatory agencies based on our decades of quality work and this reputation helps our clients obtain approvals in a timely manner.



Wetland Mitigation and Restoration: Mitigation for wetland impacts and stream habitat losses is frequently a necessary part of project planning given today's rules governing impacts to wetlands and other aquatic resources. EnviroScience wetlands scientists consult with clients to identify strategies to avoid and/or minimize construction impacts to wetlands and streams. When impacts are unavoidable, we develop project-specific mitigation plans which may include mitigation banking, in-lieu fee arrangements, and wetland creation. When wetland creation is the preferred mitigation choice, EnviroScience can complete turnkey wetland creation services including analyzing of wetland functions and values, site selection, water budget, design, construction, and plantings. EnviroScience biologists remain involved after wetlands creation to ensure successful completion through regular ecological monitoring, follow-up plantings, invasive species control, and submission of required reports to USACE. EnviroScience's design-build approach allows our biologists to be involved in projects from start to finish ensuring that the completed project meets the client's needs.

Our Wetland Services

EnviroScience provides a wide range of wetland and stream services to clients in a variety of industries such as oil, gas and energy corporations, engineering and design firms, development companies, legal firms and public agencies. EnviroScience's extensive (9 fulltime personnel) staff of wetland and stream delineators enable the company to tackle even the largest projects and most challenging deadlines.

Our wetland services include:

- Regulatory consulting
- **Site assessments**

- [Delineation/Mapping services](#)
- Habitat quality evaluations (ORAM, VIBI, QHEI, HHEI, AmphIBI, etc.)
- Vegetation surveys
- [404/401 & isolated wetland permitting](#)
- [Mitigation planning & design](#)
- Planting plans
- Mitigation monitoring
- Invasive species control
- [Wetland restorations](#)
- And more!

Contact our wetland biologists today with questions or to get a quote.

Streams

Available Habitat is a Key Limiting Factor for Species Diversity



Wetland

Assessment of stream habitat is an important step in biomonitoring and restoration projects. Almost every project has a habitat evaluation component because it can be a critical limiting factor for species diversity, therefore cost and effort can be minimized by first assessing habitat.

EnviroScience has a decade of experience evaluating in-stream and riparian habitat. EnviroScience can evaluate stream

habitat from small headwater streams to major river systems like the Allegheny and Ohio rivers. Oftentimes, habitat can vary greatly, even within a few feet. Therefore, EnviroScience incorporates the latest technology, such as underwater video and GIS / GPS mapping, in conjunction with standard evaluation forms such as the Qualitative Habitat Evaluation Index (QHEI) to provide a visual and descriptive analysis of project area habitat.

Our biologists can assess stream habitat by several innovative methods including:

- [GIS/GPS mapping](#)
- Rosgen Stream Classification
- [Aquatic and shoreline vegetative surveys](#)
- SCUBA surveys
- Bottom contour mapping
- Bottom typing using hydroacoustics
- Underwater video
- Habitat assessment forms (per state / federal regulatory agency)

[Restoration](#)

EnviroScience offers a range of restoration services for a wide variety of clients. Restoring streams and wetlands is a rapidly growing discipline that supports water quality, mitigation, stormwater and watershed management issues. Our biologists design natural functional restoration projects to address water quality issues, habitat enhancement, mitigation and permit requirements. [Click here for more information on our Stream Restoration Services.](#)

In Action



Need help with your project?

Our experts are here to discuss your needs and how we can help you move your project forward. Fill out the form below for more information on our services or to request a quote and we'll get back to you within 24 hours. If you need a response within an hour or less, please call us at 800-940-4025.

Your Name (required)

Your Email (required)

Subject

Your Message