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Header @ 1

List View

General Information Contact Default Values Discount Document Information Clarification Request

Procurement Folder: 1810217

Procurement Type: Central Master Agreement

Vendor ID: 000000176834

Legal Name: ENVIROSCIENCE INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 11/11/2025

Response Time: 16:33

Responded By User ID: hgessel

First Name: Holly

Last Name: Gessel

Email: hgessel@enviroscienceinc.c

Phone: 4407592487

SO Doc Code: CRFQ

SO Dept: 0313

SO Doc ID: DEP2600000013

Published Date: 11/5/25

Close Date: 11/12/25

Close Time: 13:30

Status: Closed

Solicitation Description: BENTHIC MACROINVERTEBRATE
SAMPLE PROCESSING AND/OR

Total of Header Attachments: 1

Total of All Attachments: 1



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1810217
Solicitation Description: BENTHIC MACROINVERTEBRATE SAMPLE PROCESSING AND/OR IDENTIFIC
Proc Type: Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2025-11-12 13:30	SR 0313 ESR11112500000003060	1

VENDOR
000000176834
ENVIROSCIENCE INC

Solicitation Number: CRFQ 0313 DEP2600000013
Total Bid: 0
Response Date: 2025-11-11
Response Time: 16:33:29
Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Sample Sorting and Identification to Genus Level	0.00000	EA	395.000000	0.00

Comm Code	Manufacturer	Specification	Model #
81131504			

Commodity Line Comments: per sample for sorting ID to genus level
 Delivery Days will follow the schedule in the RFP:
 Completed results must be delivered to DEP/DWWM according to the following schedule:
 All sample shipments submitted by April 1 are due August 31.
 All sample shipments submitted by August 31 are due Dec. 1.
 All sample shipments submitted by December 31 are due Feb. 28.
 Results of smaller, site-specific projects must be available within one month of sample receipt or within some other negotiated time.
 Each sample shipment may contain prioritization rankings that must be followed unless otherwise directed by DEP/DWWM.

Extended Description:

SORTING AND IDENTIFICATION OF A 200 ORGANISM SUBSAMPLE TO GENUS LEVEL: INCLUDE TRAVEL COST FOR SAMPLE PICKUP AND DELIVERY PER UNIT.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Sample Ident to Genus Level Only : Samples Pre-sorted	0.00000	HOUR	99.000000	0.00

Comm Code	Manufacturer	Specification	Model #
81131504			

Commodity Line Comments: per hour for Sample ID to Genus Level Only
 Delivery Days will follow the schedule in the RFP:
 Completed results must be delivered to DEP/DWWM according to the following schedule:
 All sample shipments submitted by April 1 are due August 31.
 All sample shipments submitted by August 31 are due Dec. 1.
 All sample shipments submitted by December 31 are due Feb. 28.
 Results of smaller, site-specific projects must be available within one month of sample receipt or within some other negotiated time.
 Each sample shipment may contain prioritization rankings that must be followed unless otherwise directed by DEP/DWWM.

Extended Description:

Sample Identified to Genus Level Only : Samples Pre-sorted
 Reference 2.2.1.1B in specifications

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Profession Staff Representation of Data in Legal	0.00000	HOUR	117.000000	0.00

Comm Code	Manufacturer	Specification	Model #
81131504			

Commodity Line Comments: per hour for professional staff representation of data in legal

Extended Description:

PROFESSIONAL STAFF REPRESENTATION OF DATA IN LEGAL
 Reference 2.2.1.5 in specifications

November 11, 2025

Josh Hager III
Buyer Supervisor
WV Department of Environmental Protection
2019 Washington St. E
Charleston, WV 25305

RE: Solicitation No. CRFQ 0313 DEP2600000013 - WVDEP Benthic Macroinvertebrate Sample Processing and/or Identification

Dear Mr. Hager:

EnviroScience is pleased to provide the enclosed quote for benthic macroinvertebrate sample processing and/or identification in response to Solicitation No. CRFQ 0313 DEP2600000013. The proposal includes costs for pre-sorted samples (i.e. identification only) and for samples that require both sorting and identification. An hourly rate for our staff to be present in legal representation is also provided.

EnviroScience currently hosts a team of five taxonomists and several as-needed sorting technicians. The EnviroScience macroinvertebrate laboratory is increasing its capacity for sample processing through strategic hiring of technically skilled taxonomists and sorters, as indicated by the increase in number of samples processed in recent years. EnviroScience offers services such as field collection, sorting, and lowest practical level identification. EnviroScience taxonomists have experience processing samples from Appalachian states including, West Virginia, Virginia, North Carolina, Tennessee, Georgia, Kentucky, New York, and Pennsylvania.

Since 1989, EnviroScience has built a reputation for "Excellence in any Environment". All EnviroScience taxonomists and sorters are highly trained and undertake rigorous QA/QC procedures to ensure high quality data and consistency between taxonomists. Additionally, newer taxonomists and sorters are under the supervision and guidance of experienced taxonomists who can provide guidance as needed. EnviroScience taxonomists hold various Society for Freshwater Science certifications as well as certifications from various state agencies for collection and identification of macroinvertebrates.

Attached you will find key staff resumes, Society for Freshwater Science (SFS) certifications, a 5-year sample processing summary table, relevant projects summaries, Addendum Acknowledgment Form, Designated Contact Form, and Pricing Page (Attachments A-G).

EnviroScience is currently a master agreement contract holder for State of West Virginia Order Number CMA 0313 0313 DEP220000009A 5 – Benthic Macroinvertebrate Sample Processing and ID (CRFQ DEP2200000007, bid opening 09/15/2021). We hope to continue our work with WVDEP in the future.

Should you have any questions or require additional information, please do not hesitate to contact our office at (800) 940-4025 or contact me directly by phone at (908) 391-2155 or email at MGenco@EnviroScienceinc.com.

Sincerely,



Madeline Genco
Macroinvertebrate Operations Lead



Attachment A

Key Staff Resumes



MADELINE GENCO

Macroinvertebrate Taxonomist

As Lead Macroinvertebrate Taxonomist at EnviroScience, Inc., Maddie Genco manages freshwater macroinvertebrate identification, curation, and collection. Maddie has more than 10 years of water quality monitoring, macroinvertebrate fieldwork, and laboratory experience with identification to the lowest practical level. She is currently SFS certified for Eastern EPT, Other Arthropods, and Chironomidae. Since her start at ES in 2021 she has been processing client samples from many states including Ohio, Indiana, Pennsylvania, Kentucky, North Carolina, West Virginia, Tennessee, and Washington.

EDUCATION

M.S. Entomology, Clemson University, 2018

B.S. Biology, SUNY Oneonta, 2014

CERTIFICATIONS

SFS Certifications:

- Eastern EPT
- North American Chironomidae
- Eastern Other Arthropods

Ohio EPA Certified Data Collector:

- Level 3 Macroinvertebrate Collection, Identification, and Data Analysis
- Level 3 Water Chemistry
- Level 2 QHEI

North Carolina Lab Certification

Maryland Biological Stream Survey (MBSS) Lab Certification

American Red Cross
First Aid and CPR

YEARS OF EXPERIENCE

EnviroScience, Inc.: 4 years

IDEM: 3.5 years

Clemson University: 2.5 years

SCA Internships, Center for Coastal Studies, and other projects:
~ 2 years

SELECTED PROFESSIONAL EXPERIENCE

EnviroScience Inc. Cuyahoga Valley National Park Headwaters Project 2022.

This large-scale project was conducted to help the National Park Service catalogue the status of headwater streams within Cuyahoga Valley National Park. Field assessments included fish, salamander, and macroinvertebrate community assessments, habitat assessments, and several geomorphological assessments. Maddie's primary role for this project involved field collection of macroinvertebrates, and laboratory identification to the lowest feasible taxonomic level (usually genus or species). Over 12,000 individual macroinvertebrates were identified for this project from about 250 taxa.

Indiana Department of Environmental Management (IDEM), Environmental Manager II, 2018 – 2021.

Maddie worked as an Environmental Manager II at IDEM from 2018-2021. She specialized in the collection and identification of Macroinvertebrates to aid in watershed assessments throughout the state. She demonstrated proficiency in identifying organisms to the lowest feasible taxonomic level. She frequently assisted with projects in addition to her primary job responsibilities, such as completing landowner data requests, collecting fish for tissue or community analysis, collecting water chemistry samples, E. coli samples, cyanobacteria samples, and site reconnaissance. Maddie also served as a safety coordinator and was responsible for organizing health and safety training for the branch, CPR certification, managing hazardous waste, SDS binder maintenance, monthly eyewash stations, and safety showers checks.

Clemson University Graduate Student and Research Assistant. (2016-2018).

Maddie Graduated in May 2018 with her M.S. in Entomology. For her thesis, Maddie used DNA to associate known or unknown adult caddisfly species with their larvae. She then described and illustrated the morphology of the larvae and new species.

Maddie has over seven years of macroinvertebrate and water quality monitoring experience in the lab and in the field.

RELEVANT EXPERIENCE

Freshwater Macroinvertebrate Collection, Curation, and Identification to the lowest practical level

East Coast Brackish / Saltwater Invertebrate Identification

Adult Insect Light Trap Collection and Family Identification

Water Quality Monitoring

Biological Assessments

Water Chemistry Collection and Analysis

Scientific and Technical Writing

Dissection and Compound Microscopy

Scientific Illustration

DNA Extraction and PCR

Citizen Science and Outreach

Laboratory Safety

As a graduate research assistant at Clemson University, Maddie conducted fieldwork in Vietnam (shown right) and used DNA to associate new caddisfly species with their larvae as part of her master's thesis.

She conducted fieldwork in both North and South Carolina, as well as in Vietnam (see waterfall photo below). For her Research Assistantship, she worked in Dr. John Morse's lab, where she wrote descriptions for aquatic insects for the [gigapixel Macroinvertebrates.org](http://Macroinvertebrates.org) project, "Learning to See, Seeing to Learn." She also helped with hazardous shipping and the return of scientific specimens loaned to the Clemson University Arthropod Collection. She also acted as a substitute lecturer/teaching assistant for Six-Legged Science (ENT 2000).

Center for Coastal Studies (2015). Maddie worked as an Aquatic Invertebrate Technician. She was responsible for sorting and identifying saltwater invertebrates for a seafloor mapping benthic habitat study and mentoring two lab technicians who aided in sorting specimens and data entry.

National Park Service, Student Conservation Association (SCA) Intern (2015). Maddie worked as a lab and field technician for the Herring River Restoration Project at Cape Cod National Sea Shore. Daily duties included sampling, sorting, and identifying freshwater aquatic invertebrates, water quality analysis, and data entry. She also frequently assisted with other projects such as local kettle ponds monitoring, a seagrass salt march study, and monthly water quality analysis (chlorophyll analysis, iron analysis, TSS, etc.).

SUNY Oneonta Biological Field Station Intern (2014). Maddie aided in research on two invasive species (zebra mussels and starry stonewort). She researched the use of Earth Tec ®, a copper-based molluscicide on zebra mussel veligers and adults from Otsego Lake, and the spread of starry stonewort in Canadarago Lake.





EDUCATION

M.S. Aquatic Entomology,
University of Maine at Orono, 1989

B.S. Biology, Grove City College,
1986

CERTIFICATIONS

SFS Certifications:

- Eastern EPT
- Western EPT
- North American Chironomidae
- Eastern Other Arthropods

Ohio EPA Certified Data Collector:

- Level 3 Macroinvertebrate Collection
- Level 3 Macroinvertebrate Identification and Data Analysis
- Trainer for Ohio EPA Level 3 QDC

North Carolina Lab Certification

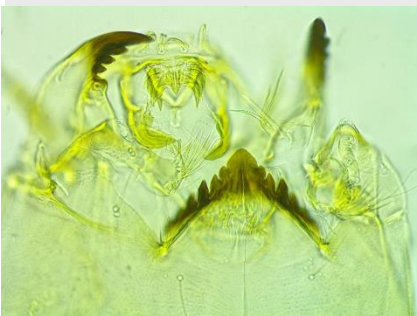
YEARS OF EXPERIENCE

EnviroScience, Inc.: 21

Mendel Environmental: 4

Lotic, Inc.: 9

Acheron Engineering: 1



RHONDA MENDEL

Quality Assurance Officer

Senior Aquatic Macroinvertebrate Biologist

Rhonda Mendel is a Senior Macroinvertebrate Taxonomist at EnviroScience whose responsibilities include expert level macroinvertebrate identification, curation, and collection services, as well as mentorship and training of less experienced staff. Ms. Mendel also serves as macroinvertebrate services QA/QC officer and is responsible for resolving taxonomic discrepancies between taxonomists. Ms. Mendel has more than 30 years of macroinvertebrate experience, over 20 of which have been spent with EnviroScience, Inc. Ms. Mendel is currently SFS certified for Eastern and Western EPT, Eastern General Arthropod, and North American Chironomidae.

RELEVANT EXPERIENCE

EnviroScience Inc., Macroinvertebrate Operations QA/QC Officer (2003-present), Rhonda Mendel has been with EnviroScience, Inc. since 2003, working as Macroinvertebrate Operations QA/QC Officer as well as Senior Macroinvertebrate Taxonomist. Ms. Mendel is responsible for collecting field samples, identifying macroinvertebrates to the lowest-practical taxonomic level, conducting data analysis, and putting together client reports. As Quality Assurance Officer, Ms. Mendel is ultimately responsible for ensuring that the goals and objectives of each individual biomonitoring project are addressed. While at ES, Ms. Mendel was an asset for the identification of the 2023-24 DOW reference collection and the QA/QC of macroinvertebrate field samples. She has been involved in many other projects from nearby states, including 316 A Macroinvertebrate Identification (Indiana), Illinois EPA Macroinvertebrate Identification, and Tennessee Army National Guard Macroinvertebrate Identification.

Mendel Environmental, Macroinvertebrate Taxonomist (2000-2004), Ms. Mendel's responsibilities included collecting samples, identifying macroinvertebrates to the lowest-practical level, analyzing and evaluating data, computing biotic indices, and writing reports for clients. Ms. Mendel followed state protocols for all collection and sample curation. Her work was focused in Ohio and Maine and was essential for proper biological assessment of aquatic habitat with macroinvertebrate population monitoring, acute and chronic toxicity tests, and general consulting.

Lotic, Inc., Aquatic Macroinvertebrate QA/QC Officer (1991-2000), Ms. Mendel provided all field work associated with collecting macroinvertebrates, reviewing all macroinvertebrate data, identification to the lowest-practical level, evaluating and interpreting data in accordance with pre-established protocols (state or federal), generating reports for benthic clients, establishing and curating an extensive in-

Rhonda has over 30 years of experience in monitoring aquatic community responses.

Teaching Taxonomic Workshops for I.D. of Chironomid Midges for use in Water Quality Evaluations

QA/QC of Macroinvertebrate Sampling at EnviroScience

Responsible for Curating an in-house Macroinvertebrate Reference Collection

Water Quality Monitoring

Impact assessments for engineering / construction projects involving streams and wetlands

house macroinvertebrate reference collection, tracking and recording changes in taxonomy and adding new taxonomic publications to the reference library. Other responsibilities included meeting with clients and regulatory agencies as necessary, performing NPDES acute and chronic toxicity tests and general consulting.

Acheron, Inc., Aquatic Biologist and Biomonitoring Division (1990-1991), Ms. Mendel was responsible for collecting and identifying macroinvertebrates to the lowest-practical level, evaluating and interpreting data using pre-established protocols (state and/or federal), and conducting freshwater and marine toxicity evaluations. This work was essential in providing ecological assessments of aquatic environments by monitoring macroinvertebrate populations and performing toxicity evaluations. While in the Biomonitoring Division, Ms. Mendel was responsible for coordinating and providing ecological assessments of aquatic environments using macroinvertebrates as indicators of ecological impairment. She was also responsible for impact assessments for engineering/construction projects involving streams and wetlands and for performing NPDES acute and chronic toxicity tests.

Expert Witness, Ohio Environmental Review Appeals Commission, Fairfield Co.), Rhonda Mendel provided expert testimony for the Ohio Environmental Review Appeals Commission (ERAC). ERAC has statewide jurisdiction in Ohio and is the highest level of appeal for final actions of the Ohio Environmental Protection Agency. Ms. Mendel's testimony addressed the total dissolved solids (TDS) issues in Tussing Road's discharge to Blacklick Creek as they related to macroinvertebrate populations. Rhonda was officially qualified by ERAC in the following disciplines: macroinvertebrate aquatic ecology and aquatic biology, water quality, biological monitoring and sampling as they relate to macroinvertebrates, biological criteria associated with macroinvertebrates and macroinvertebrate identification.

PUBLICATIONS

Mendel, M.J., P.H. Adler, and **R.J. Mendel**. 2023. "The Black Flies (Diptera: Simuliidae) of Streams and Rivers in Ohio." Ohio Biological Survey.

WORKSHOPS TAUGHT

Mendel, R. J. *Identifying Larval Chironomidae*. Workshop for US EPA Region III Mid-Atlantic Aquatic Biologist Meeting. March 28, 2019.

Mendel, R. J. *Taxonomic Workshop for the Identification of Larval Chironomidae*. Presented at US EPA Region III Mid-Atlantic Aquatic Biologist Meeting. March 28, 2014.



TIFFANY MOORE

Aquatic Macroinvertebrate Taxonomist

As an aquatic macroinvertebrate taxonomist, Tiffany's duties center around the various aspects of using freshwater macroinvertebrates as indicators of ecological impairment. Tiffany's responsibilities include maintaining chain of custody protocols, processing of quantitative and qualitative samples, and organism identification. Ms. Moore provides technical support in the area of data calculations and interpretation, report generation and quality control. Ms. Moore has extensive knowledge of Ohio Environmental Protection Agency Level 3 Qualified Data Collector protocols for collection and identification of macroinvertebrates and is responsible for maintaining knowledge of the current protocols. Ms. Moore is currently SFS certified for Eastern and Western EPT, Eastern General Arthropod, and North American Chironomidae.

EDUCATION

B.S. Environmental Biology / Water Resources-Biology Track,
Heidelberg College, 2002

CERTIFICATIONS

SFS Certifications:

- Eastern General Arthropods
- North American Chironomidae
- Eastern EPT
- Western EPT

Ohio EPA Certified Data Collector:

- Level 2 QDC Qualitative Habitat Evaluation Index (QHEI)
- Level 3 Macroinvertebrate ID Certified

YEARS OF EXPERIENCE

EnviroScience, Inc.: 13

Independent Aquatic
Macroinvertebrate Taxonomist: 1

Northeastern Ohio
Regional Sewer District: 6

RELEVANT EXPERIENCE

Responsible for in-house
macroinvertebrate quality
assurance/quality control database

Prepared an aquatic
macroinvertebrate database for
each study and a comprehensive
voucher collection for clients

Biotic Index Calculation

Scientific and Technical Writing

Dissection and Compound
Microscopy

RELEVANT EXPERIENCE

Aquatic Macroinvertebrate Taxonomist, EnviroScience (2011 – Present)

As an aquatic macroinvertebrate taxonomist, Tiffany's duties center around the various aspects of using freshwater macroinvertebrates as indicators of ecological impairment. Tiffany's responsibilities include any field work associated with collecting macroinvertebrates and organism identification, to the lowest - practical level) and verification in the lab. Ms. Moore provides technical support in the area of data interpretation, report generation and quality control. Tiffany's duties also include writing OEPA Level 3 Study Plans, as well as ensuring that all tasks involved within each plan are carried out to completion. In the last few years she has been involved with a variety of projects from the eastern US including last year's Kentucky DOW contract, as well as several projects from nearby states such as the Cuyahoga Valley National Park Headwater Survey (Ohio), Large River Macroinvertebrate Community Study (Ohio), 316 A Macroinvertebrate Identification (Indiana), and City of Chattanooga Macroinvertebrate Identification (Tennessee).

Aquatic Macroinvertebrate Taxonomist, AMT, Ravenna, Ohio (2010-2011)

As a self-employed aquatic macroinvertebrate taxonomist, Ms. Moore was responsible for receiving and processing macroinvertebrate samples, sorting, sub-sampling and identifying aquatic macroinvertebrates according to Ohio Environmental Protection Agency (OEPA) protocol and calculating metric scores, including Invertebrate Community Index and Qualitative Community Tolerance Value scores. Identification of organisms was to the lowest-practical level, usually genus/species. Ms. Moore prepared an aquatic macroinvertebrate database for each study and a comprehensive voucher collection for the client.

Tiffany was also responsible for making all purchases for the business and bookkeeping.

Investigator II, Northeast Ohio Regional Sewer District (NEORS), Cuyahoga Heights, Ohio (2002-2008)

As an Investigator II in the Water Quality and Industrial Surveillance Department, Tiffany was responsible for organizing and purchasing all necessary materials for aquatic macroinvertebrate sampling, deployment and retrieval of Hester-Dendy samplers, collection of qualitative samples, and the subsequent shipping of samples to a contracted lab for identification. Data received from the contracted lab was used to generate yearly reports. Limited aquatic macroinvertebrate samples were also processed, aquatic macroinvertebrates identified, and metric scores calculated each year by Tiffany including Qualitative Habitat Evaluation Index surveys and scoring. Ms. Moore worked with a team of Investigators to produce study plans to be approved as Level 3 Study Plans by the OEPA.

Seasonal Aquatic Biologist, EnviroScience, Inc., Stow, Ohio (2002)

Ms. Moore was responsible for processing aquatic macroinvertebrate samples and sorting and identifying the resulting aquatic macroinvertebrates, all according to OEPA protocols.

Student Aquatic Biologist, National Center for Water Quality Research, Heidelberg College, Tiffin, Ohio (1999-2002)

As an employee of the National Center for Water Quality Research, Ms. Moore was responsible for processing Hester-Dendy samplers and identifying the resulting stoneflies, mayflies and dipterans (including Chironomidae) to the genus level. Tiffany also generated and maintained an aquatic macroinvertebrate database.

WORKSHOPS/TRAINING COMPLETED

Level 3 Benthic Macroinvertebrate Biology and QHEI/Biocriteria Training, OEPA, Groveport, Ohio (2006)

Larval Midge Identification Workshop, J.H. Epler (Instructor), Wakulla Springs State Park, Florida, (2008)

Level 3 QHEI Training, Paul Anderson (Instructor), EnviroScience, Inc., Stow, (2018)

Level 3 Benthic Macroinvertebrate Biology, Northeast Ohio Regional Sewer District, Cuyahoga Heights, (2019)

Ohio Mayfly Workshop, Luke Jacobus (Instructor), Ohio Environmental Protection Agency, Groveport, Ohio, (2024)

UNDERGRADUATE RESEARCH

Aquatic Macroinvertebrate Leaf Colonization in Rock Creek, Tiffin, Ohio (2001-2002)



ABIGAIL CLASGENS

Macroinvertebrate Taxonomist

Abbie Clasgens has been with EnviroScience, Inc. since 2023 and currently serves as a Macroinvertebrate Taxonomist. She is SFS certified for Eastern EPT and Eastern Arthropods and will soon be going for her Chironomid certification. At EnviroScience, she assists with macroinvertebrate collection, identification, and curation from a variety of states, including Ohio, Kentucky, Washington, Tennessee, North Carolina, Maryland, and West Virginia. Abbie has experience with macroinvertebrates from a wide range of habitats, such as big rivers, headwater streams, and wetlands. She graduated from West Virginia University with a Bachelor of Science in Wildlife and Fisheries. While at WVU, she worked as a lab technician for multiple years and gained experience sorting and identifying macroinvertebrates to genus level, as well as with fieldwork.

SELECTED WORK EXPERIENCE

EnviroScience, Inc. City of Chattanooga Public Works Bioassessment Project 2023-2024. This is an ongoing bioassessment project with the City of Chattanooga that involves following the Tennessee Department of Environmental Conservation methods for macroinvertebrate sorting/subsampling, identification, and metric calculations. Abbie has taken on a majority of this project by conducting identification to genus level, with approximately 1500 species from over 65 taxa, as well as calculating Tennessee Macroinvertebrate Index scores for each sample.

Lab Technician, Big River Initiative Lab, West Virginia University, Morgantown, WV, May 2021 – May 2023. Abbie worked as a lab technician for Dr. Brent Murry and Dr. Carol Arantes in the Big River Initiative Lab. She collected larval fish and zooplankton on the Ohio River and sorted the samples in the lab. Outside of field season, she conducted independent research looking at aquatic invasive species policy in the Ohio River Basin. Additionally, Abbie assisted on other projects in the lab as needed to sort and ID macroinvertebrates to family.

Lab Technician, Anderson Wetland Lab, West Virginia University, Morgantown, WV, November 2020 – May 2021. In the Anderson Wetland Lab, Abbie processed macroinvertebrate kick-net samples and mud core samples from 200 wetland sites across West Virginia for Dr. Jim Anderson and PhD candidate Sindupa DeSilva. She identified the macroinvertebrate samples to genus.

Summer Undergraduate Research Experience, West Virginia University, Morgantown, WV, May 2020 – August 2020. Abbie identified macroinvertebrate samples to genus level. She conducted an independent research project with the results to look at the impact of different types of development on water quality. In addition, she applied for and received a grant for equipment.

EDUCATION

BS Wildlife and Fisheries
Resources, West Virginia
University, 2023

Minor in Conversation Ecology

CERTIFICATIONS

SFS Certifications:

- Eastern EPT
- Eastern Other Arthropods

North Carolina Lab Certification

NASBLA Boater Education

Forklift Safety Certification

YEARS OF EXPERIENCE

EnviroScience: 2.5 years

Undergraduate Lab Technician: 3
years

RELEVANT EXPERIENCE

Freshwater Macroinvertebrate
Collection, Identification, and
Curation

Seine and Gill Netting

Boat and Backpack Electrofishing

Larval Fish Collection

Zooplankton Collection

Salamander Sampling

GIS

R Studio



Hannah Green

Macroinvertebrate Taxonomist

A valued member of the EnviroScience family since 2023, Hannah Green, B.S., currently serves as a Macroinvertebrate Taxonomist at EnviroScience. Hannah specializes in lotic macroinvertebrate identification down to the lowest practical level. Hannah's education focused primarily on utilizing sustainable practices and community engagement to examine a host of environmental topics such as natural resource management, agricultural systems, biology, and the role of insects in ecosystems, providing a solid footing for her position at EnviroScience. With a strong focus on aquatic macroinvertebrate taxonomy and adult mosquito identifications, Hannah has been working in the aquatic entomology industry for 4 years. She excels in species composition studies, invasive species studies, and aquatic ecosystem monitoring. Much of her previous work experience has been focused on Colorado and other Western States, however, since joining EnviroScience she has gained macroinvertebrate identification experience from Eastern States including Indiana, Illinois, Ohio, West Virginia, Maine, Massachusetts, Tennessee, Pennsylvania, North Carolina, and Kentucky.

EDUCATION

BS Environmental Studies and Sustainability, Michigan State University, 2020

- Minor in Entomology

CERTIFICATIONS

SFS (Society for Freshwater Science); North American Chironomidae (Genus)

SFS (Society for Freshwater Science); Eastern EPT (Genus)

SFS (Society for Freshwater Science); Western EPT (Genus)

YEARS OF EXPERIENCE

EnviroScience, Inc.: 2
 Timberline Aquatics Inc: 2.5
 Internships/ Research assistant: 1.5

RELEVANT EXPERIENCE

Project Management

Macroinvertebrate Taxonomy

Species Composition Studies

Invasive Species Studies

Population Dynamics

Environmental Assessment

Age-class Based Taxonomic Identification

Macroinvertebrate Field Collection

Aquatic Biomonitoring

Experience

Taxonomist, EnviroScience Inc, 2023-Present. Primary job responsibility includes sorting and identification of macroinvertebrate communities to the lowest practical level (genus and species level), from multiple Eastern states. She frequently assists in field collection efforts that include both qualitative and quantitative sampling.

316a Demonstration, Indiana Macroinvertebrates, 2024. Identification of macroinvertebrate communities to lowest practical level, taken from multiple sites both upstream and downstream of impacted areas to assess thermal, biological, and water quality conditions.

Taxonomist, EnviroScience, Inc. Kentucky Macroinvertebrates, 2024.

Identification of qualitative and quantitative samples from both high and low gradient streams to lowest practical level from multiple locations across the state of Kentucky for short- and long-term water quality monitoring.

Taxonomist, Timberline Aquatics Inc, Aquatic Ecosystem Biomonitoring, Colorado, 2021 – 2023.

Identified more than 250,000 specimens annually from streams, rivers, and wetlands located across the State of Colorado (and other western states) for the purpose of species composition studies, the evaluation of point-source and nonpoint source impacts, invasive species studies, and biomonitoring to assess the health of aquatic ecosystems. Additionally, she assisted

**RELEVANT EXPERIENCE
CONT.**

Ohio Subsampling Methods

Creation of Voucher Collections

Mosquito Identification

Wetland Macroinvertebrate
Identification

HD Scraping and Processing

Chironomidae Deformity
Classification

Mosquito Colony Rearing

Environmental Community
Outreach

in macroinvertebrate collection using a Hess sampler as well as created analysis plans for various projects.

Population Dynamics of Beneficial Insects, Northern Colorado, 2021-2023.

Completed weekly biomonitoring surveys of insect populations using sweep nets and identified specimens down to order in the field to indicate the effectiveness of BTI (*Bacillus thuringiensis subsp. israelensis*) for Mosquito control and its impact on beneficial insect populations.

Project Manager, Mosquito Surveillance and Population Dynamics, Northern Colorado, 2021 – 2023.

Project Manager and Senior Scientist responsible for deploying/retrieving EPA standard traps, identifying mosquitoes to the species level, preparation of *Culex* sp. Individuals for West Nile Virus testing, preparation of weekly reports, and data analysis.

Age Classification of *Ptyeronarcys californica*, Colorado River, 2022. Senior Taxonomist for the age classification of Salmon flies to determine life cycles, movement patterns, and the anthropogenic impact on their communities in the Colorado River.

***Aedes aegypti* Colony Rearing and Management, Michigan State University, Michigan, 2019-2020.** Research assistant involved in the colony rearing of *Ae. aegypti*. Additionally, she assisted PhD students in conducting bioassay experiments involving mosquito sodium channels and pyrethroid insecticides.

Community Outreach and Visitor Services, Seney National Wildlife Refuge USFWS, Michigan, 2019. Leader of interactive pond studies to educate the public on aquatic macroinvertebrates and their importance to the ecosystem. Created a refuge insect collection of 200+ species. Project included the collection, preservation, and identification of all specimens.

Attachment B

Society for Freshwater Science (SFS) Certifications



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

MADLINE GENCO

In recognition of excellence for image identification to Genus for:

Eastern Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

AUGUST 2026
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

MADLINE GENCO

In recognition of excellence for image identification to Genus for:

North America Chironomidae

Dr. Bernard Sweeney

DECEMBER 2027
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

MADDIE GENCO

In recognition of excellence for specimen identification to Genus for:

Eastern General Arthropods

Dr. Bernard Sweeney

JANUARY 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

RHONDA MENDEL

In recognition of excellence for image identification to Genus for:

Eastern Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

JANUARY 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

RHONDA MENDEL

In recognition of excellence for image identification to Genus for:

North America Chironomidae

A handwritten signature in black ink, appearing to read 'B. Sweeney'.

Dr. Bernard Sweeney

JANUARY, 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

RHONDA MENDEL

In recognition of excellence for image identification to Genus for:

Eastern General Arthropod

A handwritten signature in black ink, appearing to read 'B. Sweeney'.

Dr. Bernard Sweeney

JANUARY 2030
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

RHONDA MENDEL

In recognition of excellence for image identification to Genus for:

Western Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

JANUARY 2010
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

TIFFANY MOORE

In recognition of excellence for image identification to Genus for:

Eastern Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

JANUARY 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

TIFFANY MOORE

In recognition of excellence for image identification to Genus for:

Eastern General Arthropod

Dr. Bernard Sweeney

JANUARY 2030
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

TIFFANY MOORE

In recognition of excellence for image identification to Genus for:

North America Chironomidae

Dr. Bernard Sweeney

JANUARY, 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

TIFFANY MOORE

In recognition of excellence for image identification to Genus for:
Western Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

JANUARY 2030
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

ABIGAIL CLASGENS

In recognition of excellence for image identification to Genus for:
Eastern Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

JANUARY 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

ABIGAIL CLASGENS

In recognition of excellence for specimen identification to Genus for:

Eastern General Arthropods

Dr. Bernard Sweeney

JANUARY 2029
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

HANNAH GREEN

In recognition of excellence for image identification to Genus for:

Eastern Ephemeroptera, Trichoptera and Plecoptera

Dr. Bernard Sweeney

SEPTEMBER 15, 2030
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

HANNAH GREEN

In recognition of excellence for image identification to Genus for:

North America Chironomidae

Dr. Bernard Sweeney

MARCH 2028
Date of Expiry



Society for Freshwater Science

TAXONOMIC CERTIFICATION

This five year certification is awarded to

HANNAH GREEN

In recognition of excellence for image identification to Genus for:

Western Ephemeroptera, Plecoptera & Trichoptera

Dr. Bernard Sweeney

MARCH 2028
Date of Expiry

Attachment C

5-Year Sample Processing Summary Table

Year	Taxonomic Level			Total
	Family	Genus	Lowest Practical	
2020	0	6	262	268
2021	27	9	139	175
2022	1	25	298	324
2023	21	109	128	258
2024	21	357	374	752
2025	0	196	373	569
Total	70	702	1574	2346

Attachment D

Project Summaries

Client
State of West Virginia Department
of Environmental Protection

ES Project No.
25-0761

Key Services Provided

- Benthic macroinvertebrate sorting
- Benthic macroinvertebrate identification to Genus Level
- Results reporting
- Quality control

Contact
Ryan (Philip) Pack
Program Manager
WVDEP-WQSAS-Monitoring Unit
Philip.R.Pack@wv.gov
(304) 926-0499 ext. 43772

Project Duration
2021 – 2026

Project Cost
\$50,560+
(Open-end)

Key Staff
Maddie Genco
Rhonda Mendel
Tiffany Moore
Abbie Clasgens
Hannah Green

Benthic Macroinvertebrate Sample Processing and ID



Sorted macroinvertebrate specimens from a processed sample.

EnviroScience, Inc. was contracted by the State of West Virginia Department of Environmental Protection as one of two laboratories to complete processing and identification of benthic macroinvertebrate samples collected from West Virginia waters. Results of these samples will assist the State of West Virginia in administering and enforcing pollution control laws for the State's waters. EnviroScience, Inc. received 128 samples for processing and identification in 2025.

EnviroScience is responsible for execution of several steps for the analytical process and to maintain the quality of received samples:

- Step 1 - Pickup of benthic samples at specified location
- Step 2 - Sorting of samples
- Step 3 - Genus level identification of samples
- Step 4 - Reporting of results and return of materials
- Step 5 - Quality Assurance/Quality Control
- Step 6 - Legal testimony (if needed).

Sample sorting/processing and identification is completed by EnviroScience Taxonomists according to procedures outlined in the most current version of the WVDEP Watershed Assessment Branch Standard Operating Procedures, Chapter 5. Benthic Macroinvertebrate Collection Protocols, Section B. Laboratory Processing of Benthic Macroinvertebrate Samples. Data will be submitted to the State of West Virginia in the requested electronic data deliverable format.

Client
City of Chattanooga
Public Works

ES Project No. 17569

Key Services Provided

- Subsampling/Sorting
- Identification
- Biotic Index Calculation
- QA/QC

Contact

Tiia Sailstad
<tsailstad@chattanooga.gov>

Project Duration
2023-Present

Key Staff

Abbie Clasgens
Hannah Green
Maddie Genco
Tiffany Moore
Rachel Bienemann

Macroinvertebrate Sample Processing for the City of Chattanooga Chattanooga, Tennessee



Abbie Clasgens working at the microscope and inset of midge larva at 400x magnification.

The City of Chattanooga Public Works has an ongoing bioassessment project to evaluate the water quality of several local streams. Fourteen macroinvertebrate samples were collected and sent to EnviroScience (ES) in 2023 and early 2024. The contract has since been renewed twice, resulting in six additional samples processed in 2024 and six more samples currently in process for 2025.

EnviroScience Taxonomists followed the Tennessee Department of Environmental Conservation (TDEC) methods for laboratory subsampling, identification, and biotic index calculation. EnviroScience sorted each sample to a target of 200 organisms (+/- 20%) and identified and enumerated each to the genus level. In the first fourteen samples there were approximately 2800 specimens from over 70 taxa identified. In 2024, there were 604 specimens from over 30 taxa. Quality Assurance/ Quality Control was performed on a random 10% of samples for sorting and identification. EnviroScience also conducted metric calculations to determine the biotic index score for each sample. Data was submitted via excel spreadsheet.

Client
National Park Service

ES Project No. 15363

Key Services Provided

- Biological Community Evaluation (species level Identification)
 - Macroinvertebrates
 - Fish
 - Salamanders
- Photo Voucher Collection
- Headwater Habitat Assessment (HHEI)
- Geomorphological Measurements
 - Bank Erosion Hazard Index (BEHI)
 - Gradient
 - Drainage Area
 - Bank Full Width and Flood Prone Measurements
- HMFEL Score Calculation
- IBI Score Calculation
- Cold Water and Sensitive taxon indicated.
- Stream Class Determination
- Formal Report

Contact
Lisa Nelson
(970)-217-3172

Project Duration
May 2022- Feb. 2023

Key Staff
Paul Anderson
Rhonda Mendel
Tiffany Moore
Maddie Genco
Nicole Stolic
Brad Bartelme
Greg Orr

CUYAHOGA VALLEY NATIONAL PARK Headwater Inventory Project

Ohio, United States



EnviroScience biologist collecting macroinvertebrates with a D-frame net.

This large-scale project inventoried 125 headwater streams in the Cuyahoga Valley National Park in 2022. At each 200-foot stream reach EnviroScience biologists assessed stream habitat, channel geomorphology, and the composition of the biological communities (macroinvertebrates, fish, and salamanders).

Macroinvertebrates were collected using a D-frame kick net and by hand following Ohio EPA protocols. Specimens were preserved in ethanol and transported to the EnviroScience laboratory for processing. From the 125 samples, over 12 thousand macroinvertebrate specimens were identified from approximately 250 taxa. A physical and photo reference collection was created with at least 1 representative individual of each taxon found saved in a separate vial (or marked on the slide) and digitally photographed under magnification.

The Headwater Field Macroinvertebrate Index (HMFEL) was then generated based on the field and laboratory results. This data along with the associated fish and salamander data was used to classify each stream. Perennial cool and cold-water sites numbered 103 (Class IIIB and Class IIIA), 20 were found to be intermittent (Class II), and 2 locations were ephemeral (Class I).

Client

Various Mining Companies

Key Services Provided

- Benthic Sampling and ID
- Fisheries Sampling and Assessment
- Habitat Assessment
- Channel Morphology (BEHI, NBS)
- Water Chemistry Sampling
- Data Analysis and Reporting

Project Duration

2012 - 2015

WVDEP NARRATIVE WATER QUALITY (NWQ) MONITORING

Elk and Gauley River Watersheds, WV



EnviroScience, Inc. was contracted by various mining companies to collect baseline and annual biological, physical, and chemical data in accordance with West Virginia's Permitting Guidance for Surface Coal Mining Operations to Protect West Virginia's Narrative Water Quality Standards, 47 C.S.R. 2 §§ 3.2.e and 3.2.i (WVDEP Guidance), issued by the West Virginia Department of Environmental Protection (WVDEP).

Over a four year period, EnviroScience sampled between 30 and 60 sites per year following the WVDEP 2011 SOP. We assessed stream morphology by measuring six individual parameters at each site including longitudinal slope, riffle cross section, discharge, representative reach pebble count, an active bed pebble count at each benthic macroinvertebrate sampling site, and a Bank Erosion Hazard Index (BEHI)/Near Bank Stress (NBS) evaluation for the entire reach. We also sampled 30 of the sites for fish using backpack, double backpack, and tote barge electrofishing sampling techniques.

EnviroScience taxonomists, with over 40 years of combined experience and certified under the taxonomic certification program sponsored by the Society for Freshwater Sciences (SFS), identified benthic macroinvertebrate samples. Turnaround time from sampling to data analysis was 60 days.

This project demonstrated EnviroScience's diverse sampling, analysis, and reporting capabilities. Our experienced staff collected a large amount of data within the sampling season window and produce quality reports to the satisfaction of the clients and state of West Virginia.

Attachment E

Addendum Acknowledgment Form

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: _____

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

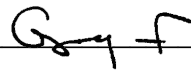
(Check the box next to each addendum received)

☒ Addendum No. 1	☐ Addendum No. 6
☐ Addendum No. 2	☐ Addendum No. 7
☐ Addendum No. 3	☐ Addendum No. 8
☐ Addendum No. 4	☐ Addendum No. 9
☐ Addendum No. 5	☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

ENVIROSCIENCE, INC.

Company



Authorized Signature

November 11, 2025

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012

Attachment F

Designated Contact Form

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Madeline Genco, Macroinvertebrate Operations Lead

(Address) EnviroScience Inc, 5070 Stow Rd. Stow, OH 44224

(Phone Number) / (Fax Number) Office: 800-940-4025 Cell:908-391-2155

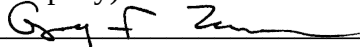
(email address) mgenco@enviroscienceinc.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

EnviroScience Inc.

(Company)



(Signature of Authorized Representative)

Gregory F. Zimmerman, Vice President

(Printed Name and Title of Authorized Representative) (Date)

(800) 940-4025, fax: (330) 688-3858

(Phone Number) (Fax Number)

gzimmerman@enviroscienceinc.com

(Email Address)

Attachment G

Pricing Page

EXHIBIT B
PURCHASE OF PRICING PAGE

The following shall be provided according to the contract terms and conditions contained herein. Price must be provided for all the following in whole. Please note these are estimated quantities and do not reflect any guarantee of purchase. WVDEP may purchase more or less as needed.

Item	Description	Estimated Quantity	Unit Price	Total Cost/Extended Price
1.	Sorting and identification of a 200 organism subsample to Genus level; Cost must include travel costs for sample pickup and return of sample materials (Voucher and Reference specimens) to WVDEP per unit	400	\$ <u>395.00</u>	\$ <u>158,000.00</u>
2.	Identification of a pre-sorted 200 organism subsample to Genus level; WVDEP will cover expense of delivery for pre-sorted samples to vendor; Vendor will cover expense of return for sample materials (Voucher and Reference Specimens) to WVDEP per unit	200	\$ <u>99.00</u>	\$ <u>19,800.00</u>
3.	Cost/Hour for professional staff representation of sorting and identification in legal/administrative setting	2	\$ <u>117.00</u>	\$ <u>234.00</u>