

# Wetland News Digest



## Editor's Note

Happy Earth Day to you all! This month's standout news is the [Supreme Court's April 6 ruling](#) that reinstated Trump's 401 Certification Rule. You may recall that only six months earlier the 2020 Rule had been vacated by a US district court, prompting a nationwide return to EPA's 1971 Rule. Look in [Editor's Choice](#) to read more, including conjecture on what this could mean for WOTUS.

In this issue you'll also find notice that the [Corps is reviewing Nationwide Permit 12](#), [OBM issued its first ever climate financial risk report](#), [developing technology uses bacteria to power monitoring sensors](#), and stories of wetland restoration and preservation across the nation.

Happy Spring!

Audra Martin  
Editor, *Wetland News Digest*  
NAWM

**Know of an interesting news story? Share it with us at [news@nawm.org](mailto:news@nawm.org) and you may see it featured in the next issue!**

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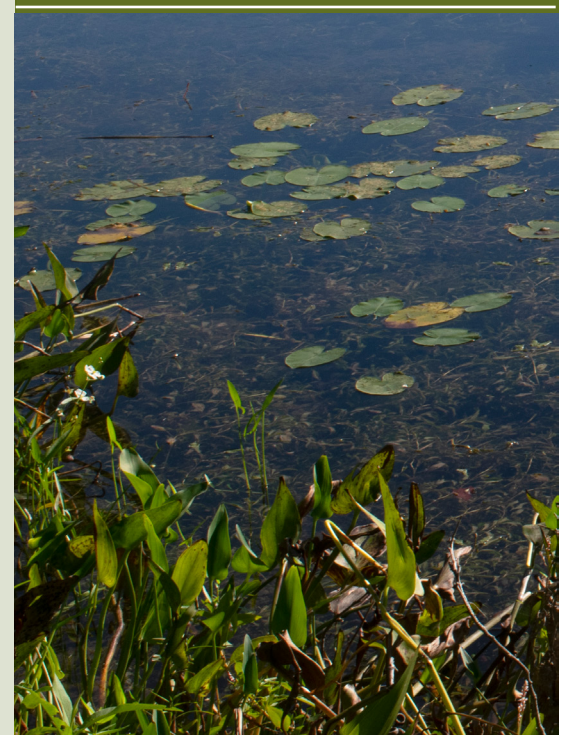
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**Wetland News Digest (WND) sponsorship provides the perfect opportunity for your business to increase its visibility with members of the wetlands and water resources community and reinforce your continued commitment to wetlands in the U.S.**

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Information**

Photo Credit: Marla Stelk, NAWM

### **Supreme Court EPA order: A warning for Biden regulators?**

By Pamela King, Hannah Northey E&E News - Greenwire  
April 7, 2022

The Supreme Court's move yesterday to revive a Trump-era EPA permitting rule could serve as a warning for the Biden administration on how it should proceed with other regulations that have been struck down by lower courts. Yesterday's emergency order reinstated a 2020 rule that limited the long-standing role of states and tribes under Clean Water Act Section 401 to certify pipelines, dams and other federally approved projects — and is seen by some legal observers as an indication that EPA and other agencies shouldn't rely too heavily on lower court rulings that have rejected Trump regulations (Greenwire, April 6). [Read more.](#)

### **Supreme Court halts ruling against Trump Clean Water Act rollback in 5-4 decision**

By Rachel Frazin – The Hill – April 6, 2022

The Supreme Court on Wednesday halted a prior court ruling that struck down a Trump-era rule limiting state and tribal authority to veto projects that could impact their waters, including pipelines. The Trump rule in question, which was nixed by a federal court in October, limited states' authority to block projects by giving them a strict one-year time limit to do so. If it did not meet this time limit, the government could determine that it had waived its veto power. The rule also limited the scope to only those that will impact water quality. It excluded other considerations, such as air quality or "energy policy." [Read more.](#)

### **Opponents warn of 'chaos' as Supreme Court revives Trump permit rule**

By Hannah Northey and Pamela King – E&E News – Greenwire – April 6, 2022

The Supreme Court's decision today to reinstate a controversial Trump-era Clean Water Act permitting rule is raising concerns that states' and tribes' hands could be tied in how they review — and possibly deny — permits for everything from pipelines and mines to dams. [Read more.](#)



## Upcoming NAWM Members' Webinars

### Managing Impacts to Wetlands from Solar Development

Wednesday, April 27, 2022

3:00 p.m.-4:30 p.m. Eastern

#### Presenter

- Laura Lapierre  
Vermont Department of Environmental Conservation



[More Information](#)

[Register](#)

### Transferable Strategies for Climate Change Adaptation: Best Practices and Lessons Learned from Coastal Resilience Projects

Wednesday, May 25, 2022 - 3:00 p.m.-4:30 p.m. Eastern

#### Presenters

- Jennifer Lam, ERG

[More Information](#)

[Register](#)

A Certificate of Participation to be used toward Continuing Education Credits will be available for this webinar. Free Certificates of Participation are a benefit of [NAWM membership](#). Non-Members who request a certificate will be charged a processing fee of \$25.00. Certificates are not available for viewing recorded webinars. [More information is available here](#). Please contact Laura at [laura@nawm.org](mailto:laura@nawm.org) if you need assistance logging in.

# National News

## EPA Announces \$524 Million Investment to Improve Health of Waterways and Oceans as Biden-Harris Administration Celebrates Earth Week

U.S. Environmental Protection Agency – April 18, 2022

As the Biden-Harris Administration celebrates Earth Week, the United States Environmental Protection Agency (EPA) is announcing a \$542 million investment to reduce pollution and plastic waste in our shared oceans. The significant investment is substantially funded by President Biden's Bipartisan Infrastructure Law. The investment was announced by EPA Assistant Administrator for International and Tribal Affairs Jane Nishida at the 7th Our Ocean Conference in Palau. At the Conference, Assistant Administrator Nishida, together with Special Presidential Envoy for Climate John Kerry, represented the United States and affirmed the nation's commitment to work with a broad international coalition to protect our shared oceans and combat the climate crisis. [Read more.](#)

## 2022 EPA Nutrient Reduction Memorandum

U.S. Environmental Protection Agency – April 5, 2022

EPA's Office of Water plans to accelerate progress in controlling nutrient pollution in our nation's waters by scaling up existing, foundational approaches and more broadly deploying new data assessments, tools, financing approaches, and implementation strategies. The memo reaffirms the Agency's commitment to working across federal agencies, with states, territories, tribes, and with farmers, utilities, and industry to make progress in controlling excess nutrients entering our nation's waters. It also reaffirms tenets that have been central to EPA's work to address nutrient pollution for many years, while fostering a collaborative, equitable, and holistic "one water" approach to advance needed progress. [Read more.](#)

## Students, Don't Miss This Great Opportunity! Receive Two Memberships for the Price of One!

The [National Association of Wetland Managers](#) (NAWM) and the [Society of Wetland Scientists](#) (SWS) have an exciting new opportunity for students to get memberships to both organizations for the price of one! Any student who joins either organization in 2022 will receive a free, complimentary membership to the other organization. This trial offer is only good for 2022, so the sooner you become a member, the more time you will have to enjoy all the benefits available to you from both organizations.

To take advantage of this opportunity, all you have to do is purchase a student membership to one organization, and the other membership will be provided to you for free.

For more information, please contact Laura Burchill, NAWM's Office Manager, at [laura@nawm.org](mailto:laura@nawm.org) or by calling our office at 207-892-3399.





## **EPA Releases Proposed Changes to the Indian Environmental General Assistance Program**

U.S. Environmental Protection Agency – April 4, 2022

Today, the U.S. Environmental Protection Agency (EPA) released proposed changes to the guidance and allocation of the Indian Environmental General Assistance Program (GAP). GAP is EPA's largest capacity building program for Tribes. Enacted by Congress in 1992, GAP provides grants and technical assistance to Tribes and intertribal consortia to plan, develop, and establish environmental protection programs and to implement solid and hazardous waste programs and service delivery activities. In FY21, \$66.25M was awarded to more than 525 grantees to address their environmental priorities. [Read more.](#)

## **Nationwide Permit 12 Update: Permit that Allows for Expedited Approval for Certain Oil and Natural Gas Pipeline Activities Undergoing Additional Review**

By Vinson & Elkins LLP – JD Supra – April 4, 2022

On March 28, 2022, the U.S. Army Corps of Engineers ("Corps") published notice ("Notice") that it is undertaking a formal review of Nationwide Permit ("NWP") 12, one of over 50 general permits available nationwide that allow for streamlined approval of certain categories of activities that may affect federally jurisdictional waters and wetlands when the effects are no more than minimal. NWP 12, which authorizes oil and natural gas pipeline activities, has been a key component in allowing midstream companies and others to construct or repair pipelines in certain circumstances without having to go through the much more time-consuming and costly process of applying for an individual Clean Water Act Section 404 permit or a Rivers and Harbors Act Section 10 permit. [Read more.](#)

## **Biden budget proposal includes nearly \$2 billion increase for EPA**

By Zack Budryk – The Hill – March 28, 2022

The White House's proposed budget for fiscal 2023 would increase funding for the Environmental Protection Agency (EPA), the Energy Department and the Interior Department, according to materials shared with The Hill. The budget proposes \$11 billion for the EPA in fiscal 2023, an increase of about \$1.5 billion from the \$9.56 billion Congress authorized last year. The White House unsuccessfully sought similar increases in its proposed fiscal 2022 budget, with Congress eventually increasing the agency's budget by about \$323 compared to the previous year. [Read more.](#)

## **Service proposes to reclassify northern long-eared bat as endangered under Endangered Species Act**

Contact: Georgia Parham – U.S. Fish and Wildlife Service – March 22, 2022

The U.S. Fish and Wildlife Service today announced a proposal to reclassify the northern long-eared bat as endangered under the Endangered Species Act. The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome, a deadly disease affecting cave-dwelling bats across the continent. [Read more.](#)

August 15-19, 2022

# National Association of Wetland Managers Annual State/Tribal/Federal Coordination Meeting

*Protecting Waters in a Time of Rapid Change*

National Conservation Training Center  
Shepherdstown, WV



The National Association of Wetland Managers (NAWM) (formerly ASWM) is excited to share the new dates for its annual State/Tribal/Federal Coordination Meeting! The meeting will now take place August 15-19, 2022 at the National Conservation Training Center (NCTC) in Shepherdstown, WV. We are looking forward to reconnecting with all of you in-person again and to visiting the NCTC during a different, and most certainly warmer, season this year. As one of our West Virginia members commented, “August is a fabulous time to visit the marl wetlands near NCTC, with lots of gorgeous fen species in bloom.”

## Submit an Abstract Today!

Do you have a wetland-related presentation to share with your peers? We are looking for abstracts that fall under one of the following focus areas:

- Sharing the Marsh: Approaches to Engaging Under-resourced Communities in Wetland Protections
- Passing the Will-O'-Wisp: Continuity and Mentorship for Staffing Changes
- Foraging for Funds: Sticking Your Straw into the Infrastructure Pot for Climate Resiliency
- Staying Afloat: Regulatory Changes and Updates for States and Tribes
- Learning to Fly: Advances in Tools and Technology
- Building Your Nest: Developing a Community of Practice through Effective Outreach and Communications



## Jon A. Kusler Student Scholarship

Are you/do you know a U.S.-based student studying wetland science, law, or policy? This is an opportunity to attend the event with all expenses funded.

## Sponsorship Opportunities – be part of this Great Event!

**More Information**



# State and Tribal News

## NAWM Membership

**Join or Renew Today!**

**2021 Rates Good Through  
May 31, 2022**

### Benefits

NAWM supports and works with you to advance the field of wetland management, building your expertise while cultivating future wetland scientists & practitioners.

### NAWM serves its members by:

- building capacity for state and tribal wetland programs,
- fostering collaboration among the wetland community of practice,
- encouraging the application of sound science to wetland management and policy,
- promoting the protection and restoration of wetlands and related aquatic resources, and
- providing training and education for members and the public.

**See all Benefits  
Join/Renew Here**



## Chickahominy Tribe: Chickahominy Tribe reacquires ancestral lands

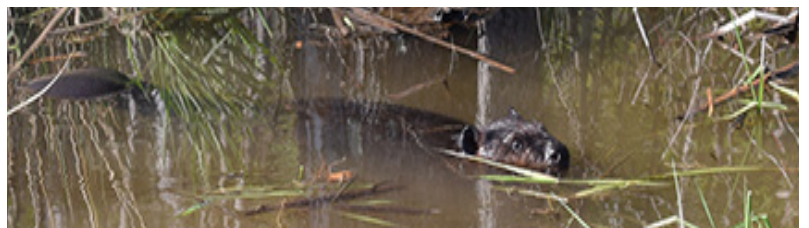
By Joseph Martin – Indian Country Today – March 13, 2022

Four years after the Chickahominy Tribe received federal recognition, some of its traditional lands will be going back under tribal control. The tribe, based near Richmond, Virginia, purchased the land known as Mamanahunt along the Chickahominy River using \$3.5 million in funds from outgoing Gov. Ralph Northam's budget. "It's once-in-a-lifetime," Chickahominy Chief Stephen Adkins said. "Since the mid-17th century, we haven't had a footprint on the Chickahominy River." Having the land under Chickahominy control provides opportunities for cultural preservation and interpretation and gives the tribe a place to re-inter remains taken during archaeological digs. [Read more.](#)

## CO: In Kawuneeche Valley, beavers are on the return

By Meg Soyars – Sky-Hi News – March 28, 2022

The hundreds of thousands of visitors who visit the Kawuneeche Valley of Rocky Mountain National Park each year enjoy the valley's picturesque meadows and forests beside the winding Colorado River, with elk and moose abundant. What many may not know is that the valley was once home to a thriving beaver population, who's efficiently built dams kept the area covered by water. Beavers are more than furry animals that love to swim, said Koren Nydic, Chief of Resource Stewardship at RMNP. "Beavers are ecosystem engineers. They raise the water table and connect the river with the floodplain." [Read more.](#)



## **NY: Salt marsh restoration at Sunken Meadow State Park, Long Island**

Audubon – March 24, 2022

Sunken Meadow State Park, located on the north shore of Long Island, is a popular destination for residents who want to enjoy time at the beach and beautiful hiking trails. Perhaps less well known to visitors is the 400-acre tidal marsh complex located south and west of the mouth of the Nissequogue River. Tidal marshes, or salt marshes, are coastal wetlands that provide critical nesting and foraging habitat for birds and serve as nursery areas for commercial and recreational fish species. These marshes also protect coastal communities and infrastructure by acting as natural storm barriers, and they filter out water pollutants. [Read more.](#)

## **OH: ONU Environmental and Field Biology Students Helping to Restore Blue Heron Reserve Wetland**

Ohio Northern University – March 22, 2021

Visit Blue Heron Reserve near Vickery, Ohio, along the Sandusky Bay, and you'll rapidly realize how dependent plants, animals and humans are to this varied but vulnerable habitat. On a warm spring day, you may be lucky enough to see an endangered Kirtland warbler, with its striking chartreuse belly, enjoying a stopover on its way from the Bahamas to central Michigan. If wild lupine emerge, you could encounter another endangered species: the Karner blue butterfly, which, as a caterpillar, only feasts on the leaves of this beautiful plant. Eastern prairie fringed orchid, protected as a threatened species, is a striking lacy flower that blooms during the summer and can thrive in wetlands that the preserve supports. [Read more.](#)

## **OR: Service Uses the Best Science to restore the Dusky Marsh**

By Dana Bivens – U.S. Fish and Wildlife Service – March 17, 2022

Robert Little has always been passionate about the outdoors. Raised on a farm in southern Washington, he learned the importance of protecting natural resources and the joy of appreciating their basic value from a young age. It was only natural then for Robert to join the Service, which he did in 1984 as a heavy equipment operator. He spent the next 36 years working to manage habitats and protect wildlife at national fish hatcheries and national wildlife refuges. [Read more.](#)

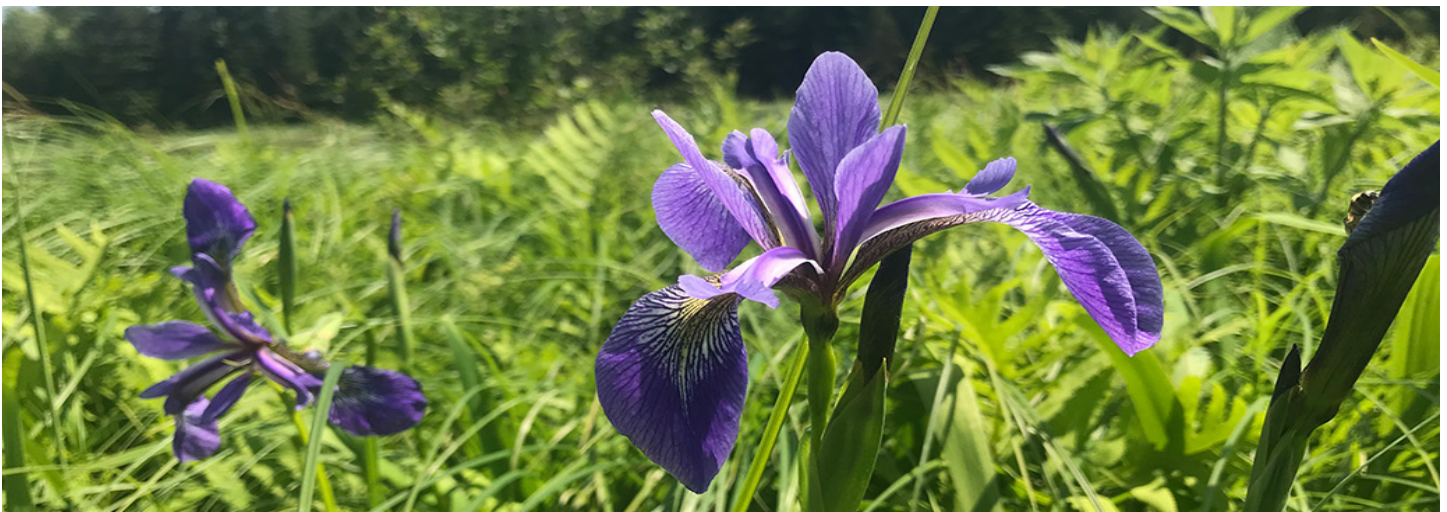


Photo Credit: Laura Lapierre, Vermont Department of Environmental Conservation



## SC: Wadmalaw residents want DHEC to reverse permit allowing destruction of freshwater wetlands

By Shamira McCray – The Post and Courier – March 24, 2022

Residents here are concerned that a planned wetland mitigation bank near the Leadenwah Creek would introduce salt into freshwater habitat for a number of animals, including the threatened American wood stork. The plan by Point Farm, MB LLC is meant to enhance and restore tidal salt marsh on more than 2,000 acres in Charleston County, the company said in a permit application to the state. It plans to remove earthen dikes that have held back ocean water from fresh wetlands. [Read more.](#)

## SC: A rise in US flooding – and a rethink

By John H. Tibbetts – Knowable Magazine – March 17, 2022

For some cities, problems with flooding began at the beginning. When European settlers arrived in Charleston, South Carolina, in the late 17th century, about half of the peninsula there was salt marsh or creek. So, for generations, Charlestonians used low places as trash dumps and added dirt or fill to wetlands and waterways to create new land. But water, which buffets the city's downtown on three sides, is now reclaiming many of those same places during high tides and storm surges. More and more often, the city must close flooded districts to traffic. Stubborn motorists still try to drive through hip-deep floods, stalling engines and leaving vehicles stranded. [Read more.](#)

## Celebrate and Donate To NAWM

**Earth Day**  
**April 22, 2022**



**American Wetlands Month**  
**May, 2022**



- Collaborate with key decision-makers in State, Tribal, and Federal Government and the private sector;
- Invest in future wetlanders - select the Jon A. Kusler Scholarship award to help support sending students to our annual State Tribal Federal Coordination Meeting
- Celebrate wetlanders - select "In Honor of" or "In Memory of";
- Provide timely updates on wetland legislation and waters of the U.S. concerns

**DONATE TODAY**



# Recently Recorded NAWM Members' Webinar

## Implications of different Waters of the US definitions in NC and the Southeast Based on field-based data from Level IV Ecoregions

Held Wednesday, March 30, 2022

### Presenter

John Dorney, Axiom Environmental



To view the members' webinar, please [login here](#) and then navigate to the Members' Webinar Series. Please contact us at [laura@nawm.org](mailto:laura@nawm.org) or (207) 892-3399 if you need assistance logging in. If you are not currently a

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out to let  
you know  
to...*



Please stay tuned to the [NAWM Events Page](#) for Upcoming Wetland Mapping Consortium (WMC) and Natural Floodplain Functions Alliance (NFFA) Webinars.



# Wetland Science News

## Small wetlands can have big impacts

By Adityarup "Rup" Chakravorty – American Society of Agronomy – April 4, 2022

Crops need nutrients like nitrogen and phosphorus to grow and thrive. However, excess nutrients from farms can wash into streams and rivers, and even make their way into oceans. The surplus in nutrients can cause major damage to aquatic ecosystems; but small wetlands can be of tremendous help in reducing or preventing this damage. [Read more.](#)

## New research from Ducks Unlimited Canada and the University of Saskatchewan demonstrates climate-cooling effects of wetlands

Contact; Ashley Lewis – Ducks Unlimited Canada – April 4, 2022

The benefits of conserving wetlands for wildlife and recreation have long been established, but emerging research is determining that wetlands are a powerful climate mitigation tool. Already recognized as one of the most effective ecosystems at trapping and sequestering carbon and proven to act as a strong natural defence against flooding in the face of extreme weather, new research suggests we can add climate-cooling to the impressive list of wetland benefits. [Read more.](#)

## Researchers find wetland plant can filter PFAS chemicals

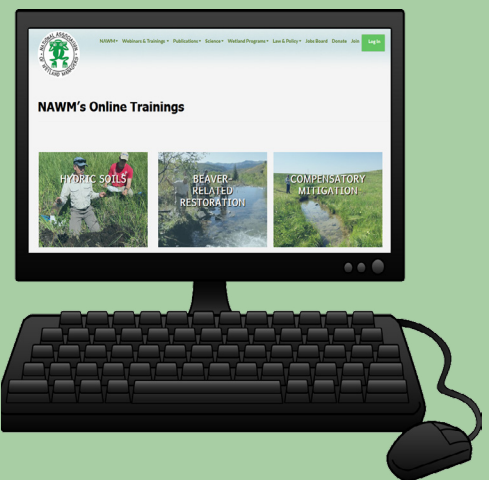
Enrique Saenz – Indiana Environmental Reporter – March 28, 2022

Researchers have found that a common wetland plant native to Australia can remove toxic "forever chemicals" from the surrounding environment. In a 190-day greenhouse experiment, a team of Chinese and Australian researchers found that *Juncus sarophorus*, a wetland plant also known as the broom rush, could tolerate and accumulate PFOS, PFOA and PFHxS, three of the most commonly studied PFAS chemicals. [Read more.](#)

## NAWM'S ONLINE TRAINING

### Have you visited our Online Trainings Library lately?

As a benefit of NAWM Membership, you may [Log In](#) to view the modules and complete the knowledge-based quizzes at no additional charge. NAWM Members who both view the module presentations and successfully complete the module quizzes are eligible for free Certificates of Completion. \*Non-members also have access to the modules via the [non-member Online Training pages](#). The quizzes and certificates have processing fees per module.



## The Power of Bugs

By Josh Baxt – UC San Diego News Center – March 28, 2022

Computer scientists at the University of California San Diego are showing how soil microbes can be harnessed to fuel low-power sensors. This opens new possibilities for microbial fuel cells (MFCs), which can power soil hydration sensors and other devices. In addition to farm monitoring, the researchers are also working with wetland protection groups. The unifying theme is supporting long-term measurement in areas that lack supporting infrastructure. [Read more.](#)

## Global impacts of future urban expansion on terrestrial vertebrate diversity

By Guangdong Li, Chuanglin Fang, Yingjie Li, et al. – Nature communications – March 25, 2022

Rapid urban expansion has profound impacts on global biodiversity through habitat conversion, degradation, fragmentation, and species extinction. However, how future urban expansion will affect global biodiversity needs to be better understood. Our study suggests an urgent need to develop a sustainable urban development pathway to balance urban expansion and biodiversity conservation. [Read more.](#)

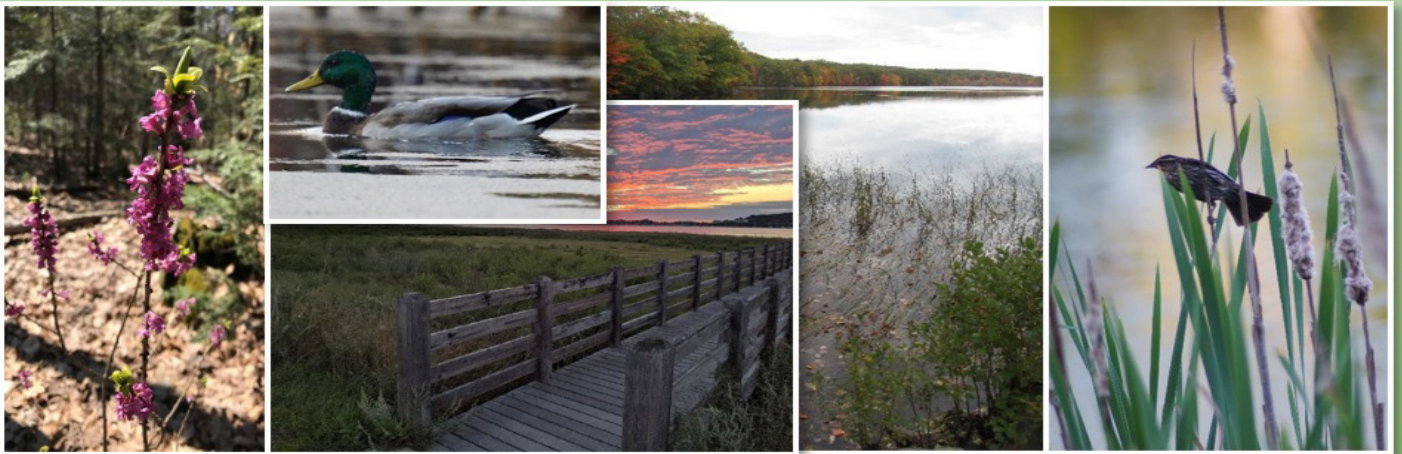
## EPA Announces Availability of up to \$1.6 Million in Environmental Justice Grants for Tribal Public Participation Project

U.S. Environmental Protection Agency – March 21, 2022

The U.S. Environmental Protection Agency (EPA) has announced the availability of up to \$1.6 million in American Rescue Plan (ARP) funding to support Tribal government efforts to establish or modify programs on environmental justice water and air quality issues. Earlier this year, EPA announced spending plans for the \$100 million in ARP funding appropriated by Congress in response to the COVID-19 pandemic and health outcome disparities, with \$50 million being designated to improve ambient air quality monitoring, and \$50 million designated to address disproportionate environmental or public health harms and risks in underserved communities. Congress made up to \$1.6 million in ARP funding available to Tribes, recognizing the importance of supporting Tribal public engagement programs and related priorities that have been impacted by the COVID-19 pandemic. EPA anticipates awarding 16 to 20 grants nationwide in amounts of up to \$100,000 per award. [Read more.](#)



# *NAWM is Celebrating* **American Wetlands Month**



## **Call for Wetland Photos!**

American Wetlands Month is coming in May. NAWM is planning to share photos of your favorite wetlands in social media posts and NAWM publications. We plan to flood our media streams with pictures from around the country. We are asking for your help to do this.

We are looking for a variety of images – wetlands, flora, fauna, and wetland friends – to share throughout May. Photos should be submitted in .jpg, .png, or .pdf format and have a file size between 100KB – 10MB. To share your photo(s), [please fill out this form on our website](#).

## **American Wetlands Month Hot Topics Webinar**

**May 24th**

**Information will be posted on  
NAWM [Events Page](#) Soon**

# Resources and Publications

Follow NAWM in  
May for

## American Wetlands Month

**Membership  
Monday**

**Topical Tuesday**

**Throwback  
Thursday**

**Funday Friday**

Follow us on  
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LinkedIn



### **White House releases analysis of climate risk to government**

By Kelsey Brugger – E&E News – Greenwire April 6, 2022

The White House yesterday released a financial risk report showing that a 10-foot “worst case” sea-level rise could inundate more than 12,000 federal buildings and structures by the end of the century — costing taxpayers more than \$43 billion to replace them. The first-of-its-kind report from the Office of Management and Budget illustrates the broad impacts climate change poses and underscores that the greatest harm stands to hurt already vulnerable people. [Read more.](#)

### **Carbon Captured by Coastal and Ocean Habitats Can Advance States’ Climate Goals**

By Sylvia Troost and Alex Clayton – PEW – March 28, 2022

Coastal wetlands support a huge range of life on Earth and provide the major benefit of capturing and storing carbon—so-called “blue carbon.” Conserving and restoring these ecosystems can contribute to broader efforts that combat climate change. Because states in the U.S. largely set the policies governing their coastlines, they have opportunities to prominently incorporate blue carbon into their climate policies and goals. And because officials increasingly realize the role quality data plays in determining how much blue carbon is contained in their coastal habitats, including salt marshes, forested tidal wetlands, mangroves, and seagrass beds, The Pew Charitable Trusts recently hosted a webinar that brought together experts from two organizations focused on collecting blue carbon data and making it readily available. [Read more and view webinar.](#)



Photo Credit: Devin Griffiths, The Wetlands Institute



## EPA WIFIA Annual Report Celebrates over \$5 Billion in Water Infrastructure Loans

U.S. Environmental Protection Agency – March 24, 2022

Today, the U.S. Environmental Protection Agency (EPA) released the 2021 Water Infrastructure Finance and Innovation Act (WIFIA) Annual Report. The report highlights the program's 2021 investments in water infrastructure to protect public health and the environment, create good-paying jobs, and save communities money over alternative financing options. [Read more. WIFIA information.](#)

## Clean Water Act's Promises Half Kept at Half Century Anniversary

Contact: Tom Pelton – Environmental Integrity Project – March 17, 2022

A half century after the passage of the landmark federal Clean Water Act, and almost four decades after the law's deadline for all waters across the U.S. to be "fishable and swimmable," 50 percent of assessed river and stream miles – 703,417 miles nationally — are so polluted they are classified as "impaired," according to a new report by the Environmental Integrity Project. The report, "The Clean Water Act at 50: Promises Half Kept at the Half Century Mark," uses state data to also show that 55 percent of lake acres that have been studied in recent years and 25 percent of assessed bays and estuaries are impaired — meaning they cannot be used safely for one or more public uses, such as swimming, fishing, or as sources of drinking water. [Read more.](#)



**AMERICAN WETLANDS MONTH**  
*Wetlands Action for People and Nature*  
Monday, May 9, 2022  
1-5PM EDT

**EPA**

**Ramsar**  
Convention on Wetlands

[See Agenda](#)

[Join the Meeting](#)



# NAWM Jobs Board

## [Social Science Specialist](#)

Playa Lakes Joint Venture, Remote Position;  
Apply by May 4, 2022

## [Water Resource Control Engineer](#)

CA State Water Resources Control Board, Alameda County, CA  
Job Code: JC-301368, Apply by April 29, 2022

## [Biologist \(Lab Manager\)](#)

U.S. Geological Survey, Few Vacancies: Gainesville, FL;  
Lafayette, LA; Apply by April 22, 2022

## [Environmental Specialist IV](#)

Maine Department of Environmental Protection  
Augusta, ME; Apply by April 29, 2022

## [GIS Intern - 2 Paid Positions](#)

Ducks Unlimited, Dexter, MI  
Requisition ID: 1418, Apply by May 6, 2022

## [Fish and Wildlife Biologist](#)

U.S. Fish and Wildlife Service  
2 vacancies in: Davis, WV; Apply by May 2, 2022

## [Visit the NAWM Jobs Board](#)



# Podcasts of Interest

National Wildlife Federation and Allied World Assurance  
Company Podcast: [Harnessing Natural Infrastructure to Protect  
the Built Environment](#)

U.S. Geological Survey Ecosystems Podcast Series:  
[Outstanding in the Field](#)

Ecobot Podcast: [Q&A Conducting Hyper-Efficient Wetland  
Delineations](#)

NEIWPC: [Wetlands Watchers Podcast Series](#)





# Potpourri

## Property Buyouts Can Be an Effective Solution for Flood-Prone Communities

PEW – April 1, 2022

Each year across the United States, communities large and small, inland and coastal, face devastation from flooding. These disasters wipe out family savings, destroy lives and livelihoods, set high-risk communities back economically, are a regular occurrence in many areas, and have cost the nation over \$1 trillion since 2000. One strategy to address repeated flooding is a “buyout,” in which residents sell their flood-prone properties to the state or local government and relocate to areas with lower flood risk. [Read more.](#)

## Large ice shelf thought to be stable in East Antarctica collapses

By Brad Dress – The Hill – March 25, 2022

A massive ice shelf in eastern Antarctica collapsed, scientists said on Friday, marking the first time an ice shelf has done so in the region. The 460-square mile wide ice shelf, which was roughly the size of New York City and helped keep the Conger and Glenzer glaciers from warmer water, collapsed between March 14 and March 16, Woods Hole Oceanographic Institute ice scientist Catherine Walker told The Associated Press. University of Minnesota ice scientist Peter Neff said the collapse was worrying because eastern Antarctica holds five times more ice than western Antarctica, and if the whole region were to melt, it could raise sea levels across the globe more than 160 feet, according to the AP. [Read more.](#)



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Photo Credit: Tom Douglas,  
Bayou Preservation Association

## **KBIC celebrates Tribal Water Day with virtual events**

By Nick Wilson – The Daily Mining Gazette – March 24, 2022

On Tuesday, members of the Keweenaw Bay Indian Community (KBIC) and Copper Country residents came together for a virtual celebration of Tribal Water Day. KBIC's virtual event featured presentations that explored water from a tribal perspective – examining the roles of culture, science, and technology in the protection and preservation of Nibi, the Ojibwe word for water. KBIC Tribal Council Member Doreen Blaker began the event by noting the importance of water to all life forms, and the need to preserve and protect water resources. [Read more.](#)

## **Vernal Pools: Spring's Night Life**

By Matt Reilly – Newswires – March 17, 2022

A few hours earlier, the small parking lot adjacent to the river would have been packed with vehicles from several surrounding states plastered with fly fishing stickers, but when we arrived, it was empty. The sun had been down for several hours, and had there been a moon, it would've been impossible to detect. A thick layer of clouds hung over the landscape, robbing it of even a shade of light, save for the converging headlights of a few traveling naturalists. [Read more.](#)

## **Clean water is key to conservation equity**

BY Shanna Edberg – The Hill – March 15, 2022

This week my mind is on clean water. While the Biden administration is designing new programs for conservation like America the Beautiful, Congress continues to negotiate a bill to make historic investments in climate and clean energy, and the federal government has a windfall of new funds to distribute to communities for parks and infrastructure. What flows between all of these initiatives — and between all living things — water. It must be front and center this week — Latino Advocacy Week. Water is a precious resource and the foundation of life itself. The health of Latino communities is intimately tied to the health of our waterways, playing a role in Latino livelihoods, culture, history and spirituality. Healthy freshwater systems are essential to sustain every community, preserve natural resources and habitats, grow our crops, provide recreational opportunities and re-energize our economy. [Read more.](#)

## **Nature Is Infrastructure. Let's Engineer It That Way**

By John Sabo – Forbes – March 15, 2022

Science needs to embrace an “engineering with nature” mindset, a solutions-first approach to using natural infrastructure such as wetlands, farms and aquifers to construct water security for everyone. Without that mindset, we can't move the needle significantly toward water abundance. [Read more.](#)



# Calendar of Events

## WEBINARS

### April

April 20, 2022  
2:00 p.m.-3:00 p.m. ET

North American Invasive Species Management Association (NAISMA) Webinar: [A Biocultural Approach to Integrating Indigenous Knowledge with Western Science for Invasive Species Management and Policy](#)

April 27, 2022  
3:00 p.m.-4:30 p.m. ET

National Association of Wetland Managers Members' Webinar Series: [Managing Impacts to Wetlands from Solar Development](#)

April 29, 2022  
11:30 a.m. ET

Wisconsin Wetlands Association Wetland Coffee Break Webinar: [So you want to manage your wetland. Where to start?](#)

### May

May 2, 2022  
12:00 p.m. ET

Ecological Society of America Webinar: [Statistical Methods Series: Hidden Markov Models in Ecology](#)

May 5, 2022  
1:00 p.m. – 2:00 p.m. ET

NOAA Science Seminar Series: [The National Wetlands Inventory: Driving Conservation through Mapping](#)

May 11, 2022  
7:00 p.m. – 8:00 p.m. ET

Cary Institute of Ecosystem Studies Webinar: [Beaver Ecology and Management](#)

May 13, 2022  
11:30 a.m. ET

Wisconsin Wetlands Association Wetland Coffee Break Webinar: [Spectacular sedges in Wisconsin's wetlands](#)

May 18, 2022  
4:00 p.m. ET

Northeast Climate Adaptation Science Center Webinar: [Tribal & Indigenous-Based Climate Adaptation Priorities in the NE CASC Region](#)

May 25, 2022  
3:00 p.m. ET

National Association of Wetland Managers Members' Webinar Series: [Transferable Strategies for Climate Change Adaptation: Best Practices and Lessons Learned from Coastal Resilience Projects](#)

May 26, 2022  
12:00 p.m. – 1:00 p.m. ET

PEW: [Blue Carbon Toolbox: Federal resources for states to develop coastal wetland greenhouse gas inventories](#)

<b>June</b>	
June 17, 2022 11:30 a.m. ET	Wisconsin Wetlands Association Wetland Coffee Break Webinar: <a href="#">Blanchard's cricket frog (<i>Acris blanchardi</i>) spring movement ecology in Wisconsin</a>
<b>July</b>	
July 8, 2022 11:30 a.m. ET	Wisconsin Wetlands Association Wetland Coffee Break Webinar: <a href="#">Upper Mississippi River restoration history: From dam planning to partnership successes</a>
<b>CONFERENCES/EVENTS</b>	
<b>April</b>	
April 22-24, 2022 Albany, NY	Eagle Hill Institute: <a href="#">Northeast Natural History Conference</a>
April 23, 2022 Harrisburg, PA	Wildwood Park: <a href="#">Wetlands Festival</a>
April 23, 2022 Menasha, WI	Heckrodt Wetland Reserve: <a href="#">Mayhem in the Mud!</a>
April 24, 2022 Fort Myers, FL	"Ding" Darling Wildlife Society: <a href="#">33rd Annual "Ding" Darling Day</a>
April 26-29, 2022 St. Petersburg, FL	<a href="#">Center for Watershed Protection National Conference</a>
April 27-28, 2022 Woodstock, VT	<a href="#">NEIWPC 32nd Annual Nonpoint Source Conference</a>
April 29, 2022 Santa Rosa, CA	Laguna de Santa Rosa Foundation: <a href="#">Vernal Pool Exploration: Morning-Mist Meander</a>
April 30, 2022 Conoy Township, PA 2:00 p.m.-4:00 p.m. EDT	Lancaster Conservancy: <a href="#">Wetlands Walk: Conoy Wetlands Nature Preserve</a>



<b>May</b>	
May 2-6, 2022 Boise, ID/Virtual	National Mitigation & Ecosystem Banking Conference: <a href="#">Invest in the Environment Discover Ecological Solutions</a>
May 12-15, 2022 Porter, IN	<a href="#">Indiana Dunes Birding Festival</a>
May 14, 2022 Kemah, TX	Galveston Bay Foundation: <a href="#">Bay Day Festival</a>
May 14, 2022 Dayton, OH	Beaver Creek Wetlands Association: <a href="#">Koogler Wetland Prairie Reserve: Wetland Reptiles and Amphibians in May</a>
May 14-20, 2022 Grand Rapids, MI	<a href="#">Joint Aquatic Sciences Meeting</a>
May 15-19, 2022 Orlando, FL	<a href="#">Association of State Floodplain Managers Conference</a>
May 16-18, 2022 Southern California	2022 Southwestern Tribal Climate Change Summit: <a href="#">Exploring the Fire Within Us</a>
May 14-20, 2022 Grand Rapids, MI	International Association for Great Lakes Research (IAGLR) IAGLR22: <a href="#">65th Annual Conference on Great Lakes Research: Joint Aquatic Sciences Meeting 2022</a>
May 21, 2022 Stone Harbor, NJ	The Wetlands Institute: <a href="#">Spring Shorebird and Horseshoe Crab Festival</a>
May 22, 2022 Delray Beach, FL 5:00 p.m.-7:00 p.m. EDT	<a href="#">Wakodahatchee Wetlands Walk</a>
May 23-25, 2022 Virtual	<a href="#">Ecological Forecasting Initiative (EFI) Virtual Conference</a>
May 24-25, 2022 Virtual	EPA's Office of Research and Development: <a href="#">Resilient Coastal Wetlands and Communities: multi-Regional Workshop</a>
May 24-26, 2022 Muskegon, MI	Michigan Department of Environment, Great Lakes, and Energy: <a href="#">U.S. Great Lakes Areas of Concern Conference</a>

<b>June</b>	
June 4-7, 2022 Washington, DC	River Network: <a href="#">River Rally</a>
June 7-8, 2022 Washington, DC	River Network and American Rivers: <a href="#">Action Day for Clean Water and Rivers</a>
June 8, 2022 San Francisco, CA	Aquarium of the Bay: <a href="#">World Ocean Day - Awareness to Action Climate Summit</a>
June 14-16, 2022 Hunt Valley, MD	BeaverCon 2022: <a href="#">Building Climate Resilience: A Nature-Based Approach</a>
June 24-28, 2022 Cleveland, OH	American Society of Naturalists, the Society for the Study of Evolution, and the Society of Systematic Biologists Joint Meeting: <a href="#">Evolution 2022</a>
<b>July</b>	
July 13-16, 2022 New Orleans, LA	<a href="#">Ducks Unlimited 85th National Convention</a>
July 31-August 3, 2022 Denver, CO	Soil and Water Conservation Society 77th International Annual Conference: <a href="#">Elevating Conservation to New Heights</a>
July 16-21, 2022 Reno, NV	North American Congress for Conservation Biology: <a href="#">Restoring Connections and Building Resilience in a Changed World</a>
July 31-August 3, 2022 Denver, CO	Soil and Water Conservation Society 77th International Annual Conference: <a href="#">Elevating Conservation to New Heights</a>
<b>August</b>	
August 14-19, 2022 Montreal, Quebec, Canada	Ecological Society of America Annual Meeting: <a href="#">A Change is Gonna Come</a>
August 29- September 1, 2022 St. Paul, MN	Institute for Tribal Environmental Professionals: <a href="#">National Tribal &amp; Indigenous Climate Conference</a>



<b>September</b>	
September 6-9, 2022 Duluth, MN	Natural Areas Association: <a href="#">Natural Areas Conference</a>
September 19-22, 2022 Toledo, Spain	International Society of Environmental Indicators: <a href="#">24th International Conference on Environmental Indicators</a>
September 19-25, 2022 New York, NY	<a href="#">Climate Week</a>
September 21-22, 2022 Port Aransas, TX	University of Texas Marine Science Institute: <a href="#">Texas Bays and Estuaries Meeting</a>
<b>October</b>	
October 3-7, 2022 Virtual & New York, NY	American Museum of Natural History: <a href="#">Student Conference on Conservation Science-New York</a>
October 10-12, 2022 Albuquerque, NM	Southwest Climate Adaptation Science Center: <a href="#">Southwest Adaptation Forum</a>
October 24-26, 2022 Traverse City, MI	International Association for Great Lakes Research: <a href="#">State of Lake Michigan Conference</a>
October 25-27, 2022 Green Bay, WI	Midwest Invasive Plant Network: <a href="#">Upper Midwest Invasive Species Conference</a>
<b>November</b>	
November 7-10, 2022 Ft. Myers, FL	<a href="#">North American Invasive Species Management Association 30th Annual Conference</a>
November 14-16, 2022 Ballina, New South Wales	Centre for Coastal Biogeochemistry at Southern Cross University: <a href="#">15th Australasian Environmental Isotope Conference</a>

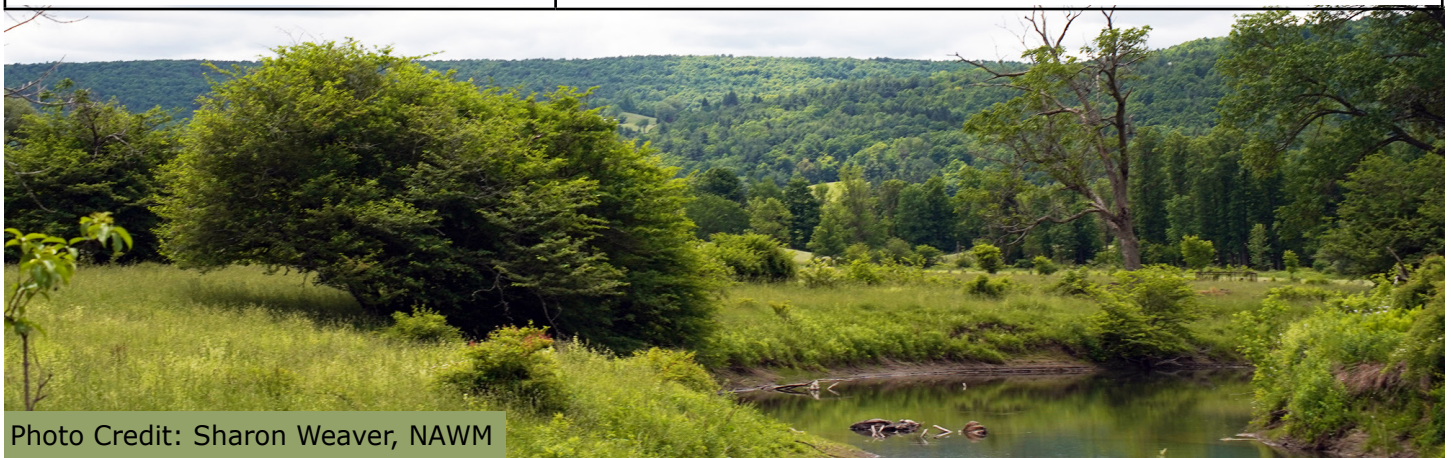


Photo Credit: Sharon Weaver, NAWM

# TRAINING COURSES

## April

April 25-28, 2022 Northern Virginia	Wetlands Training Institute, Inc. Course: <a href="#">Federal Wetland/Waters Regulatory Policy</a>
April 25-28, 2022 Aliquippa, PA	Swamp School Course: <a href="#">Standard Wetland Delineation-Training (Classroom/Field)</a> . Discount is offered to <a href="#">NAWM Members</a>
April 25-28, 2022 Online – 14 Weeks	Swamp School Course: <a href="#">Stream Restoration Level V – Stream Monitoring and Departure Assessment</a> . Discount is offered to <a href="#">NAWM Members</a>

## May

May 3-4, 2022 8:30 a.m.-3:30 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: <a href="#">Vegetation Identification for Wetland Delineation: North</a>
May 7-8, 2022 Troutdale, VA	Blue Ridge Discovery Center: <a href="#">Vernal Pond Restoration Workshop</a>
May 9, 11, 13 & 16, 2022 Online	Rutgers Office of Continuing Professional Education Course: <a href="#">Wetland Construction: Principles, Planning, and Design</a>
May 10, 2022 Virtual	Massachusetts Association of Conservation Commission Course: Fundamental Unit 207: <a href="#">Fundamentals of Wetlands Enforcement</a>
May 11-12, 2022 8:15 a.m.-12:15 p.m. EDT Online	Rutgers Office of Continuing Professional Education Course: <a href="#">Restoration Ecology</a>
May 16-20, 2022 St. Michaels, MD	Environmental Concern Course: <a href="#">Basic Wetland Delineation</a>
May 23-27, 2022 Charlotte, MI	Michigan Wetlands Association: <a href="#">Wetland Delineation Training</a>
May 25-27, 2022 Online	Wetlands Training Institute, Inc. Course: <a href="#">Graminoids (Grasses, Sedges, Rushes) ID for Wetlands and Wetland Delineators</a>



<b>June</b>	
June 1-2, 2022 Online	Rutgers Office of Continuing Professional Education Course: <a href="#">Hydric Soils</a>
June 4, 2022 Marion, MA	Massachusetts Association of Conservation Commission Course: <a href="#">Basic Wetland Delineation: Vegetation</a>
June 6, 2022 Online	Swamp School Course: <a href="#">Standard Wetland Delineation Training (Classroom/Field)</a> . Discount is offered to <a href="#">NAWM Members</a>
June 13-15, 2022 St. Michaels, MD	Environmental Concern Course: <a href="#">Wetland Plant ID</a>
June 14-15, 2022 Charleston, SC	Duncan & Duncan Wetland & Endangered Species Training: <a href="#">Advanced Hydric Soils, Atypical Wetlands, and Hydrology (Coastal Plain or Eastern Mountains/Piedmont)</a> . Discount is offered to <a href="#">NAWM Members</a>
June 16, 2022 Virtual June 20, 2022 Field Trip	Rutgers Office of Continuing Professional Education Course: <a href="#">Methodology for Delineating Wetlands</a>
<b>July</b>	
July 10-16 2022 Steuben, ME	Eagle Hill Institute Training Course: <a href="#">Grass Identification: An In-depth Review</a> Discount is offered to <a href="#">NAWM Members</a>
July 10-16 2022 Steuben, ME	Eagle Hill Institute Training Course: <a href="#">Wetland Identification, Delineation, and Ecology</a> Discount is offered to <a href="#">NAWM Members</a>
July 29-30, 2022 Milwaukee, WI	University of Wisconsin Course: <a href="#">Wetland Delineation</a>
<b>August</b>	
August 9-12, 2022 Portage, WI	Wetlands Training Institute, Inc. Course: <a href="#">Plant Identification for Wetland Delineators</a>
August 11-12, 2022 Live Remote Washington TBD	Northwest Environmental Training Center Course: <a href="#">Wetlands: Science and Regulatory Management</a>

<b>September</b>	
September 12-13, 2022 San Diego, CA	Wetlands Training Institute, Inc. Course: <a href="#">Riparian Habitat Restoration for the Arid Southwest</a>
September 12-16, 2022 St. Michaels, MD	Environmental Concern Course: <a href="#">Basic Wetland Delineation</a>
September 26-29, 2022 San Diego, CA	Wetlands Training Institute, Inc. Course: <a href="#">Federal Wetland/Waters Regulatory Policy</a>
<b>October</b>	
October 10-12, 2022 St. Michaels, MD	Environmental Concern Course: <a href="#">Evaluating Hydric Soils in the Field</a>
<b>November</b>	
November 2, 2022 Online	Wetlands Training Institute, Inc. Course: <a href="#">Demystifying Wetland and In-Water Permitting in Washington State</a>
November 2-3, 2022 Live Remote Washington TBD	Northwest Environmental Training Center Course: <a href="#">Wetlands: Science and Regulatory Management</a>
<b>December</b>	
December 5-7, 2022 St. Michaels, MD	Environmental Concern Course: <a href="#">Winter Woody Plant ID</a>
December 6-7, 2022 Portage, WI	Wetlands Training Institute, Inc. Course: <a href="#">Problematic Delineation Seminar</a>



Photo Credit: Laura Burchill, NAWM



# Wetland News Digest

The National Association of Wetland Managers' Wetland News Digest (WND) is a monthly compilation of wetland-related stories and announcements submitted by readers and gleaned from listservs, press releases and news sources from throughout the United States. WND chronicles the legislative, national, state and tribal news relevant to wetland science, policy, practice and law. It also links to new publications, tools and resources available to wetland professionals as well as events and training opportunities for those working in water resources and related fields. Wetland News Digest (formerly "Wetland Breaking News") has been published for over fifteen years and NAWM has been a nationally recognized resource for information on wetland science and policy since 1983.



Photo Credit: Emily Hirsch, Whatcom Conservation District

The items presented in Wetland News Digest do not necessarily reflect the views of the editor or of the National Association of Wetland Managers. Send your news items, comments, corrections, or suggestions to [news@nawm.org](mailto:news@nawm.org).

## ***Complied and Edited by:***

Audra Martin  
*Program Support Specialist*

Marla Stelk  
*Executive Director*

## ***Assistant Editors:***

Laura Burchill  
*Office Manager*

Sharon Weaver  
*Webmaster*

## ***Contact Us:***

NAWM  
500 Washington Avenue, Suite 201  
Portland, ME 04103  
(207) 892-3399  
[laura@nawm.org](mailto:laura@nawm.org)