



2021 DWSPP Year in Review

Steve De Ridder
Berkeley County PWSD



10

Government Agencies

Government Committee chaired by Saeid Kasraei, MDE

15

Water Suppliers

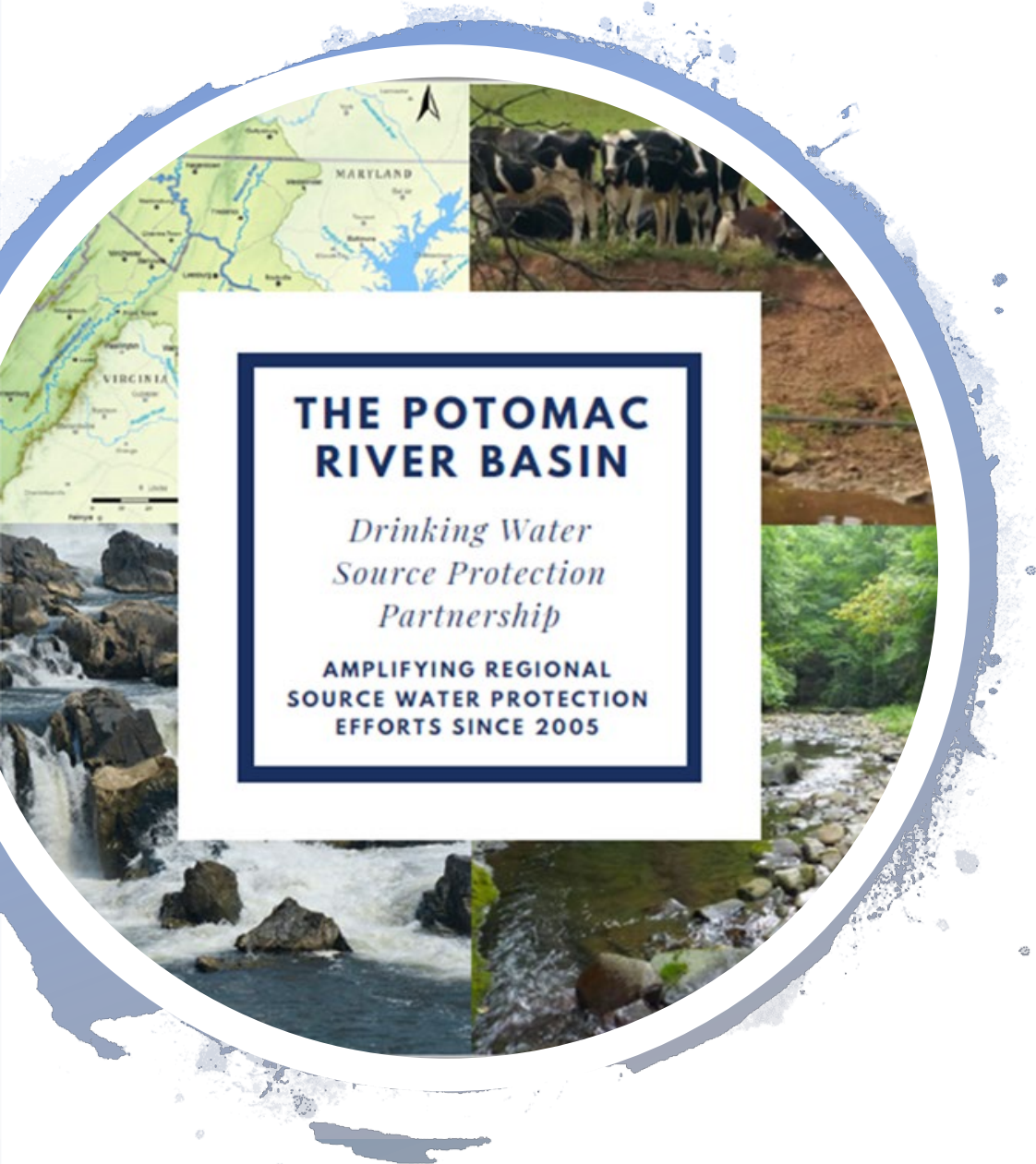
Utility Committee chaired by Rudy Chow, Washington Aqueduct

100+

Representatives

14,670

Square miles



Workgroups

Early Warning & Emergency Response

Water Quality

Urban & Industrial Issues

Contaminants of Emerging Concern

Agricultural Issues

Reaching Out

Land Prioritization Implementation

Early Warning & Emergency Response



Credit: WJLA 7

Joel Thompson, Fairfax Water

Early Warning and Emergency Response

Cooperated with Water Quality Workgroup to update the Spill Plan and conduct the communications exercise and Occoquan Spill exercise

Contacted firms about booming capabilities and interest in presenting to the Partnership

Updated the monitoring and alarm capability spreadsheet including alarming the toxicity parameter at Fairfax Water

Worked with COG Water Security Monitoring Group and USGS on additional sites for Sondes (the Point of Rocks location is up and running)

Water Quality Workgroup



Niffy Saji, Fairfax Water

Water Quality 2021 Activities

Track Resources

- Utility Spill Response Plan, Completed
- Salt monitoring locations, ongoing
- HAB monitoring locations map, ongoing
- Submerged Aquatic Vegetation (SAV) monitoring locations, ongoing

Knowledge Sharing

- Spill Response Plan Webinar (with EW/ER Workgroup, August 2021)

Collaborate with Other Workgroups

- Spills.io Communications Exercise (with EW/ER Workgroup, August 2021)

Water Quality 2022 Activities

Track Resources

Water quality monitoring done by utilities
Salt, HAB and SAV monitoring locations

Knowledge Sharing

Explore emerging water quality issues and their sources
Participate in webinars and workshops on water quality issues
As appropriate, sponsor information session on water quality issues.

Collaborate with other Workgroups

Related to water quality issues.
Update Spill Response Plan as needed.
Spill exercises and related activities

Urban and Industrial Issues

Greg Prelewicz, Fairfax Water

[“Winter road treatment using salt brine.jpg”](#) by Z22 is licensed under [CC BY-SA 3.0](#)



Urban & Industrial Issues 2021 Activities

NPDES Facility Renewals or Other Discharges Issues

- Allegany Ballistics Lab (WV)
- Pactiv Plastics (VA)
- Ft. Detrick (MD)
- WMATA Silver Line (VA)
- Proctor and Gamble / BCPSSD (WV)
- Va WQS Triennial Review (VA)

Support and Coordination for WaterSuite

- MWCOG Water Sector Program

Salinization/Winter Chemicals

- Participation in NSF funded research on Occoquan watershed
- Participation in Metro DC regional salinization monitoring and education efforts

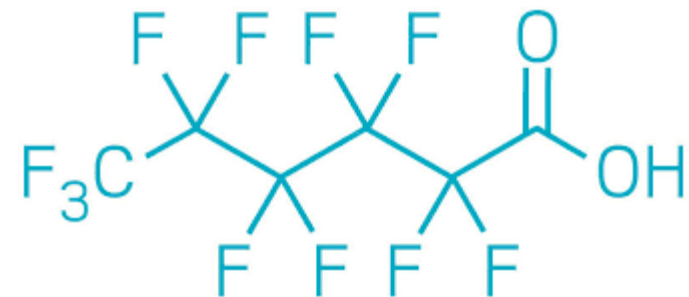
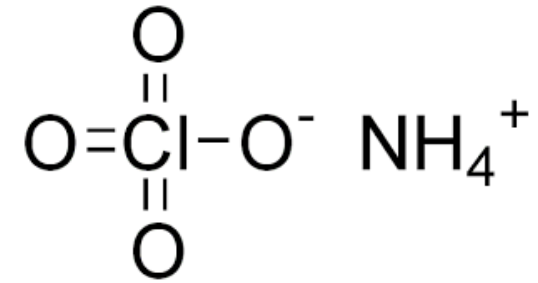
Urban & Industrial Issues 2022 Goals

Continue the goals and objectives laid out in the strategic plan:

- Monitor, review and comment on applicable **NPDES** or equivalent state discharge permit renewals to advise regulators about drinking water source water concerns and impacts.
- Explore ways to standardize **NPDES permit language** requiring downstream notification of spills in the Potomac or its tributaries.
- Continue efforts to research, monitor and promote best management practices to **reverse the long-term salinization of drinking water supplies**.
- Prioritize **urban and industrial entities** with whom to begin a dialogue on source water protection issues. These should be identified based on proximity, density, potential for protection, potential for contamination, or other parameters.
- As applicable, track all information related to facilities of significance using the **WaterSuite** Source Water Protection GIS tool.

Contaminants of Emerging Concern (CEC)

Martin Chandler, WSSC Water



Contaminants of Emerging Concern 2021 Activities

UCMR4

- Quarterly summaries of Potomac River Basin water utility monitoring results were prepared and distributed after each EPA data release.
- Patterns of contaminant detection (e.g., HAAs, manganese) and non-detection (e.g., cyanotoxins, germanium) were summarized with statistics.

PFAS

- A new subcommittee was convened and has met a few times.
- Various aspects of PFAS occurrence, monitoring, and sources, largely in the Potomac River Basin and nearby region, have been identified and subcommittee members are locating and compiling information and adding findings to a new secure SamePage resource where DWSP members can review them.
- In addition, state and national PFAS issues, including fate and transport, UCMR5, research, legislation, and regulation (i.e., MCLs) are being tracked.

HABs and Cyanotoxins

- The workgroup tracked a Harmful Algal Bloom in the Potomac River in July, as well as one in the Shenandoah River North Branch also in July, that continued into August.
- In addition to determinations that the algae were cyanobacterial in origin, tests for cyanotoxins were run and results shared via the PotomacSpills groups.io email distribution.

Contaminants of Emerging Concern 2021 Activities

Microplastics

- A new subcommittee was convened and has met multiple times.
- After considering what aspects and issues of microplastics pollution may be important for the Potomac River and for drinking water, it was decided to convene a workshop webinar to hear from national and international experts.
- The microplastics webinar was held on 12 October and drew an audience of over 85 people from around the country.
- The subcommittee will continue to meet and track local and regional efforts, including a planned pilot monitoring study that ICPRB has received funding to conduct in 2022.

Endocrine Disrupting Compounds

- The workgroup has been tracking EDC issues in the Potomac River Basin intermittently for the past 15 years, including hearing from Hazen & Sawyer on a funded study of EDCs several years ago.
- An update on the final project findings was presented at the quarterly DWSPP meeting in May.

Agricultural Issues

Pam Kenel, Loudoun Water

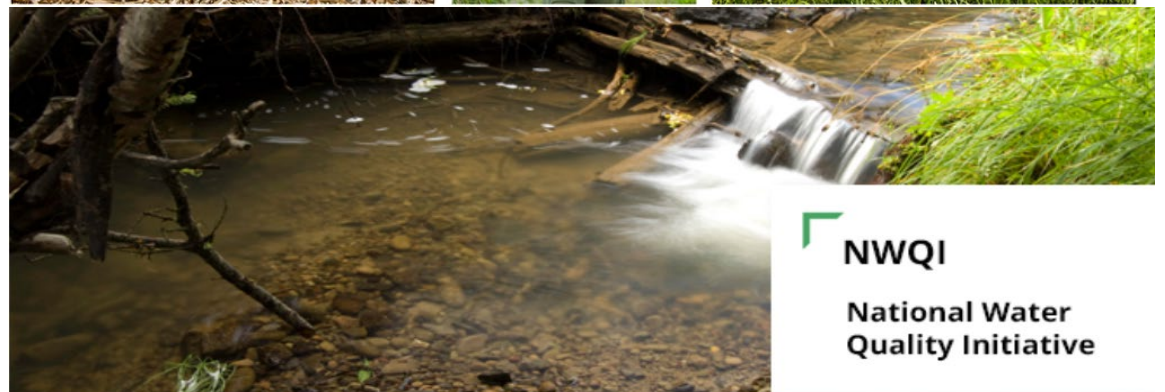


Natural Resources Conservation Service

Our Mission: We deliver conservation solutions so agricultural producers can protect natural resources and feed a growing world.



Our Vision: A world of clean and abundant water, healthy soils, resilient landscapes, and thriving agricultural communities through voluntary conservation.



NWQI
National Water
Quality Initiative

Agricultural Workgroup – Goals & Activities

Strategic Goals

1. Understand how DWSPP can contribute.
2. Identify and collaborate with standing groups.
3. Leverage activities of other organizations and programs.
4. Bring grant money to farm producers through funding programs.

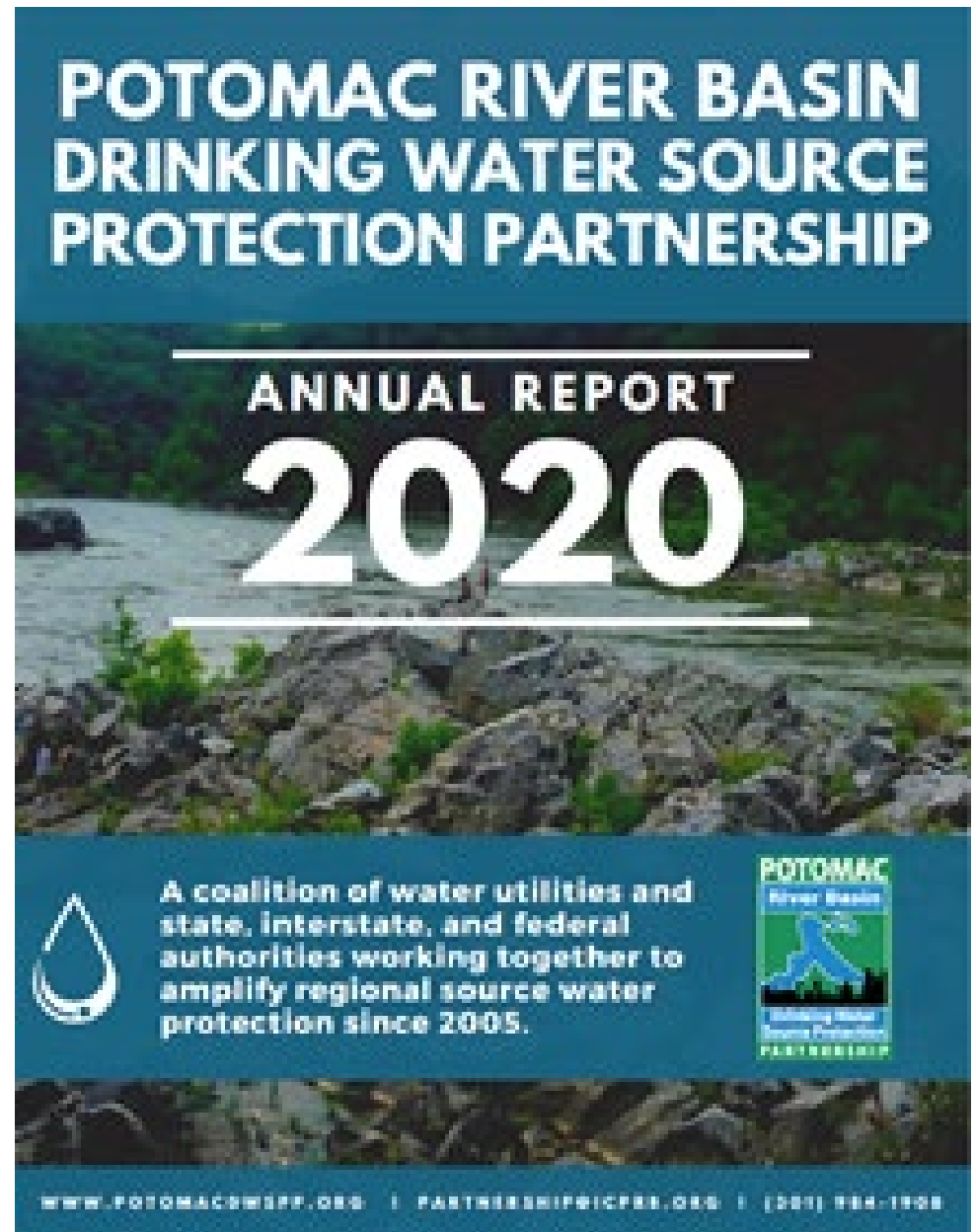


2021 Activities

- MD: USDA funding thru MD-NRCS for ICPRB to prepare Planning Phase assessments.
- VA: Collaboration with VA-NRCS professionals; EPA assisting in refining source water priority areas for 2022 funding. Applied Land Use Tool. Evaluating opportunities upstream of Potomac intakes.
- WV: Submitted application with 8 technical, conservation and government partners for NWQI funding. Expect results in Dec 2021.
- AWWA: Develop understanding of USDA and Farm Bill funding programs for source water protection.

Reaching Out Workgroup

Lisa Ragain, MWCOG
Renee Bourassa, ICPRB
Virginia Vassalotti, EPA R3



Reaching Out – 2021 Activities and Accomplishments

- 1 Created the 2020 Annual Report
- 2 Started a monthly "Members Only" newsletter to keep members up to date on DWSPP member and workgroup activities between the quarterly meeting
- 3 Created a special newsletter and shared social media posts celebrating the inaugural Source Water Protection Week
- 4 Assisted other workgroups with projects



**Microplastics in the Potomac River Basin:
Drinking Water & Source Water Protection Perspectives**

Tuesday, October 12, 2021
11:00 am - 2:30 pm (EDT)

Join us for a virtual workshop on the latest research and developments on microplastics in drinking water!

Presentations:

- *Addressing Key Questions on Microplastics in Drinking Water*
Brent Alspach, Arcadis
- *Research and Actions on Microplastics in Drinking Water by the California State Water Resources Control Board*
Dr. Scott Coffin, California State Water Resources Control Board
- *Monitoring of Microplastics in Drinking Waters*
Dr. Robert Andrews, University of Toronto
- *Developing a Preliminary Conceptual Ecological Risk Assessment and Science Strategy for Microplastics in the Potomac River*
Kelly Somers, US EPA Region III

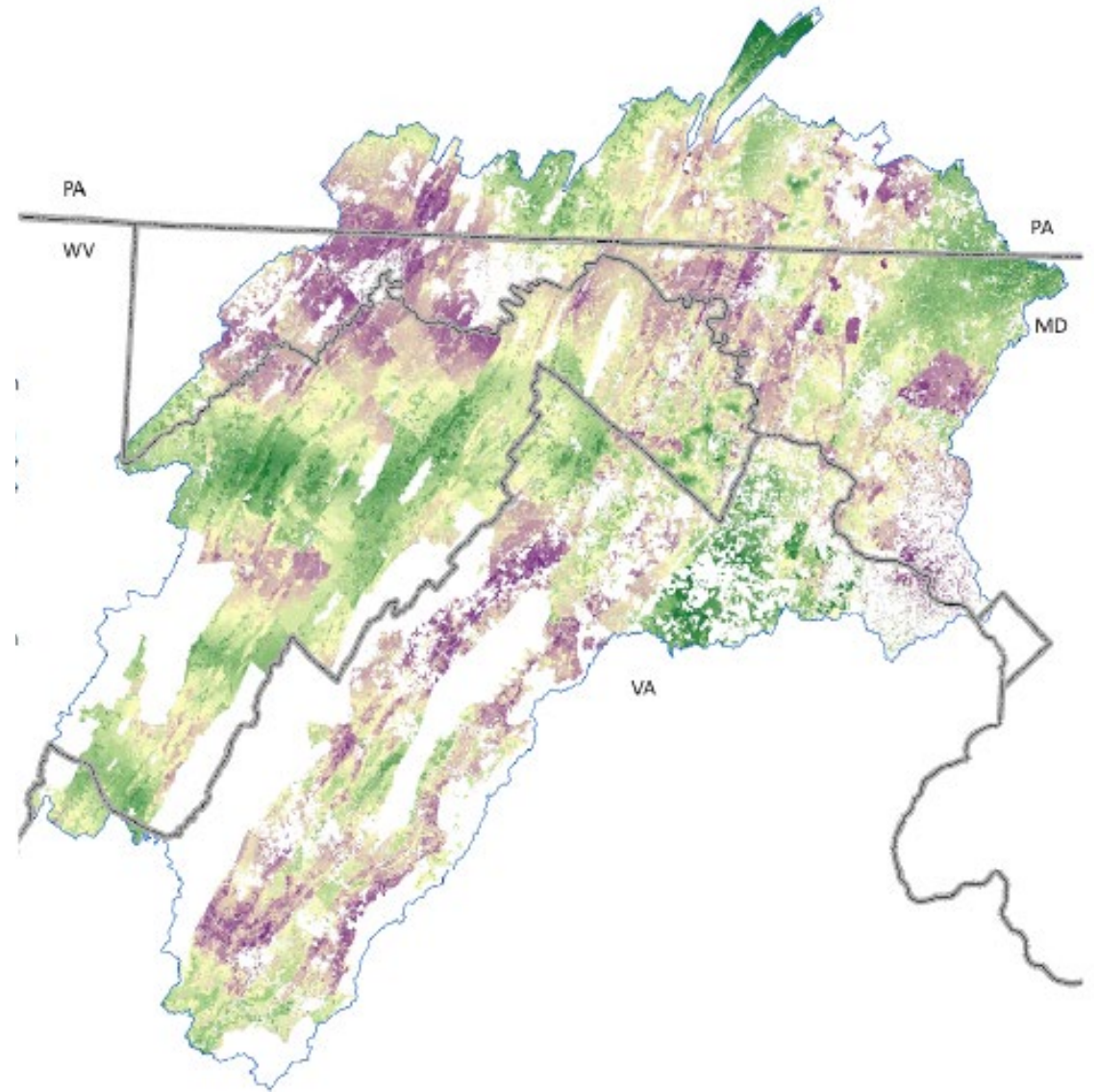
REGISTER NOW!

Hosted by:

www.potomacdwspp.org

Land Prioritization Implementation

Michael Nardolilli, ICPRB



Land Prioritization Implementation 2021 Activities

2020: DWSPP developed a land prioritization tool that ranks parcels' importance to sources of drinking water

2021: LPI Workgroup focused on the importance of marketing this new tool to entities most likely to take advantage of it:
(1) land trusts and
(2) governments

The geospatial files have been provided to more than 12 entities, including land trusts, county governments, state government agencies, and EPA Region 3

Interested parties can learn about the tool by visiting the DWSPP website. In 2022, ICPRB plans to make the tool available for online viewing

In summary, 2021 has been a busy year for the LPI Workgroup. The efforts of members have led to broad dissemination of this important tool and meaningful engagement with basin stakeholders.

DWSPP Administration & Technical Support



Christy Davis, ICPRB

DWSPP Coordination

Partnership Support

- Provide technical and administrative support to workgroups
- Identify speakers and plan meetings
- Track issues relevant to source water protection and water quality
- Produce newsletters and other communication
- Financial management

Represent DWSPP to External Organizations

- AWWA
- NRCS
- Source Water Collaborative Network
- End-users of the DWSPP Land Prioritization tool