

# BEYOND 2025: SHALLOW WATER HABITATS SMALL GROUP Listening Session

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BREAKOUT GROUP: 2 of 3  
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# QUESTION 1: What do healthy and sustainable shallow water habitats look like to you?

dynamic, connected areas that can respond to transgression, SLR, storms, freshwater changes by transitioning into natural roles of ecosystem services

**Resiliency to increased load and flow scenarios**

Densely vegetated, with buildings behind vegetation and far enough from the water to accommodate shoreline changes

very low slope, high hydrologic connectivity between open water and land

**indigenous vegetation with low evidence of non-natives or invasives**

absence of litter, plastics, styrofoam, other human waste, post consumables.... and a clear water column.... you can see your toes once in the water unless native SAVs obscure

**areas are accessible to the public**

**Place where people can fish and people/pets can swim**

Shallow water habitats and landscapes upstream of them are conserved and permanently protected.

Ones in which the shallow water habitats and their riparian buffers are managed and REGULATED as a single, integrated ecosystem. (In VA they are reg separate

**Resilient--able to respond to disturbance, reorganize, and undergo change while maintain ecosystem functioning and productivity (ecosystem services)**

Water connected to watershed conditions, including vegetation, impervious surfaces, living organisms

Waters that are used and valued by communities. This may be an informal impression or some sort of social science construct. Not just a physical/ecological thing.

It looks like it is free of pollution and invasive species. It also is available to the community to use as intended or enjoy.

Dominated by native species and communities, with water quality parameters sufficient to support them. Some may not be self-sustaining-need ongoing management

Supportive of native wildlife, fisheries and other designated uses, resilient to climate change and disturbance, connected to other waterways

Resilient and connected systems that integrate aquatic and terrestrial near-water habitats that can adapt and change while maintaining key ecological functions.

**clear water**

protected riparian areas with a strong ground water/surface water interface to maintain temps and clarity, and upstream sources of pollution mitigated

specimen/champion trees along edges, riparian zone

High productivity waterbody edges that sustain thriving resources across all uses and impacts.

Nontidal Headwater Streams- Intact Riparian Buffer, Livestock excluded, limited impervious surface and stormwater runoff, Hyporheic exchange

Dynamic suite of riparian veg (emergent), submersed veg, diverse 3-D structure (wood, rock, etc), transitioning to deep water

Healthy and sustainable even after factoring in population growth, economic development, and climate change. It takes work to tread water

**natural, free flowing waters (steady flow)**

**No fishkills/ low DO events**

No nuisance macroalgae blooms; healthy benthic algae (diatoms not toxic cyanobacteria)

Provide conditions that support/maintain living resource productivity such as egg/larval survival of fishes

**clear water, can see benthos**

**Full trophic web in abundance - including top predators**

Management (restoration and conservation) to restore ecological function to benefit fish, wildlife and people. Not pre-settlement, but ecol. function.

clean water with abundant native wildlife and ability for sustainable fishing and recreational opportunities for all.

**Biodiverse, resilient, productive**

**Healthy waters, habitats full of life and grass, biodiverse**



# QUESTION 2: Where should focus be given to maintain or improve shallow water habitats?

For example, this could be geographic focus, modeling focus, people focus.





# QUESTION 3: How would you go about getting to your vision of healthy and sustainable shallow water habitats? You can't do everything so think about the top two things you would focus on?

fund maintenance and adaptive management efforts

Permanent landscape conservation/protection

Need to engage the community at the neighborhood level. How? We need significant simplification of federal grant program application and administration.

ensure restoration projects are properly maintained over the long-term

would focus on?

fund restoration projects on private property

DOD lands for projects

map out impairments that involve agriculture in EV and HQ watersheds then focus on saturating these watersheds with BMPs to restore riparian health while controlling runoff and keeping soil on farm

Rethink "monitoring" in shallow waters to improve our understanding of changes and to improve Lew's models

fund long-term monitoring efforts

require the beneficial use of dredge material for use in thin layer placement when feasible? No waste of a valuable resource

Balanced nutrient reductions!

Better monitoring of macroalgae and benthic algae.

Develop crediting protocol to drive market forces to increase broader funding for shallow water habitat

Improve outreach and education with private landowners about--and financial incentives for--natural shorelines.

We need to establish a basis for crediting shallow water habitat to use market processes to advance goals of shallow water habitat

governance systems that allow for/enable shifting shores and changes in shallow water systems

Fee simple and easements for tidal marsh retreat. ✓

Wetlands specific funding. Separate from other Nature based solutions.

State/watershed riparian buffer and cattle exclusion laws. Partnerships with local jurisdictions to scale up headwater restoration.

replacing armored shorelines with living and natural shorelines, and reducing sources of sediment

Build capacity in states to focus on whole system shallow-water restoration and protection to be able to implement locally-led strategies and leverage federal \$

Educating communities on its importance, restoration and protection efforts and how they too can get involved.

Inoculate all tidal marsh restoration projects with ribbed mussels for erosion resistance and improved water quality

Programmatic support-crediting, funding, regulation for projects which will maintain or improve shallow water habitats, disincentives for projects which fail to do this

Better development best management practices (that are enforced)!

Enhance targeting to connect between outcomes, such that multiple outcomes are met with individual conservation and restoration efforts.

synthesize current efforts to understand future location and conditions of SW habitats, identify gaps, priority ecosystem transformations

Community-led watershed planning for conservation and restoration, designed to meet community and local economic needs as well as environmental goals

+ Utilize local knowledge to inform decision making and co-development of adaptation strategies

TMDL "credits" also need to incorporate local stream/water health, not just delivery to Bay mainstem

Change the TMDL-move it to EPA R3 in Philadelphia and include a temperature TMDL in headwaters

Streamlining existing conservation funding to provide flexible and holistic funding to restore/protect entire systems.

Brook Trout WG's plan to work with local government to protect habitat is good- expand the pilot in MD and PA as quickly as possible, race against the clock w/climate change

Baywide plastic bag/straw/etc. ban

# QUESTION 4: What sort of public or community engagement strategies would be most successful for connecting the public to shallow water habitats?

Focus on equity and communities of color.

recognize communities who rely on fishing for food

The other 4 steering committee small groups could consider a similar meeting as this one

Through State Park and county park access areas

BMP "fact sheets" - plain language documents explaining different BMPs, why, how, etc. to combat misinformation (Ex: Stream restoration)

Coordinate with groups that plan community events

Work with schools and the Chesapeake Bay units they study

Develop literacy programs for adults, not just school kids. CBF's VOICES program is a good model. Expand that throughout the Bay!

Highlight the value of healthy shallow waters to recreational anglers

Include markets for WQ, carbon, other nature based solutions services

Work with ecumenical faith based organizations

Links to drinking water/ mailings via drinking water or sewer bills

Town Halls, Community Collaboration Events, Imbedding Community Captains in Orgs to ensure the community stays abreast of updated information & efforts.

**Make it easy to read.**

Paired technical and financial assistance, with field tours and community stipends where needed for understanding and active participation

Make shallow water habitats cool (no pun intended). I.e., use social media and tie in shallow water with something more universally relatable

Look into working with recreation organizations / local businesses that use shallow water habitats (SUP, fishing charters, etc) to provide educational components

Work with aquaculturist

Simplify federal grant application and admin procedures.

provide groups/people a grant writer! :)

link reductions of plastics/trash/solid waste to tax benefits for local communities/citizens.

Landowner incentive programs (taxes, payments etc...), highlighting landowners who are being good stewards of their property.

Use of Hedonic Pricing Indexes - private lands with trees and wetlands are worth more - to show the economic incentive to landowners.

use marketing & advertising principles

use existing networks - Chesapeake Monitoring Cooperative, Waterkeepers, Watershed Stewards Alliance, other local nonprofits

Offer incentive for volunteer opportunities out on the water. People feel more connected to the problem if they spend more time around it.



# QUESTION 5: How can the bay program add value to new or ongoing work in shallow water habitats? (Examples could include coordination, policy, science support)

Science Help:  
Monitoring toxic  
benthic algal mats  
and understanding of  
toxin fate and  
transport.  
Cyanotoxins  
(microcystin, saxitoxin  
and anatoxin) docume

Incorporate a revised  
plan for shallow water  
quality monitoring,  
while the States'  
monitoring  
infrastructure is still  
intact after 20 years of  
Round 1 of monitoring  
throughout the Bay.

STAC reports  
providing  
justification

Trusted  
source of  
science

focus on restoring  
sub-watersheds with  
local impairments  
rather than general  
load reductions to the  
Bay that do not  
restore local waters

Connect the  
terrestrial/freshwater/  
estuary divide among  
organizations

Pet and  
human  
health

language really does  
matter. how shallow  
waters is defined, how  
it's different/or the  
same/ from riparian  
complexes (e.g.  
stream-floodplain-wet  
land)

Technical  
Assistance  
(e.g. for grant  
applications  
for small orgs)

funding for  
permanent  
landscape  
conservation

Policy- governance  
systems to allow/  
enable shifting  
shores and shallow  
water systems

Update resource  
management with  
more updated science  
focusing on historic  
changes (much  
greater proportion of  
shallow water habitat  
today as result of our  
shoreline development)

More  
interactions  
with  
community.

Routine  
monitoring of  
benthic algae  
and  
macrolage

To be more effective  
leaders, the bay  
program agencies  
could work to build  
more trust with  
each other. The  
different agencies  
are partners not  
adversaries

Communications  
useful for local  
jurisdictions and  
communities to  
illustrate issues and  
options for  
conservation and  
restoration

Longer term  
monitoring  
and adaptive  
management

Streamline  
workgroups to  
encourage better  
collaboration and  
working beyond 1  
practice - i.e.  
wetlands and  
buffers - to focus on  
restoring systems.

Space for keeping  
track of how the  
different programs  
are working towards  
cross-cutting goals

Co-benefit  
economic  
analyses

Connect outcomes  
to reflect that this is  
an ecosystem, not  
simply separate  
outcomes.  
Especially so in the  
shallow waters and  
edges



Revise crediting and  
accountability to  
allow for actual  
habitat  
improvements  
rather than only  
nutrients and  
sediment.

Transport of  
freshwater  
toxins  
downstream  
(and into  
seafood)

Wetlands  
Academy for  
practitioners,  
permitters,  
and  
homeowners

Funding  
to states  
to add  
capacity

dispersion of shallow wate

## QUESTION 6: Are there any other considerations for the Shallow Water Habitat Small Group as we move through our work?

The total acreage of wetlands is decreasing. We need plans that integrate and fund permanent conservation 


The EC needs to be more accountable for progress

**Make it fun.** 

**Make it easy to read.**

Remember why we do what we do.

Managed and **REGULATE** shallow waters as a single, integrated ecosystem. In VA, they are regulated as separate entities.

Each state needs to have lead staff for each goal and have them accountable for making progress. 

Wetland goal originally only to off-set historic loss. Need to look forward to anticipated areal extent and geographies for future wetlands

Interpretive Dance

Drones (but seriously, cool tech will bring in people)

**carbon sequestration!**  
**Preserve existing and expand capacity**

**Working with breweries, wineries and distilleries**