

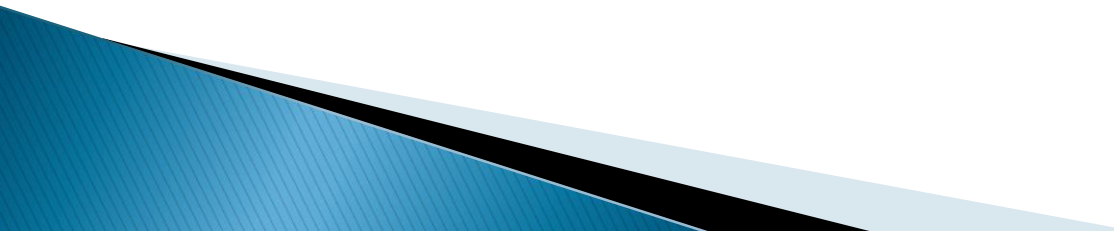
# EPA Program Update

Jim Edward, Deputy Director  
EPA, Chesapeake Bay Program Office

CAC Meeting  
November 20, 2015

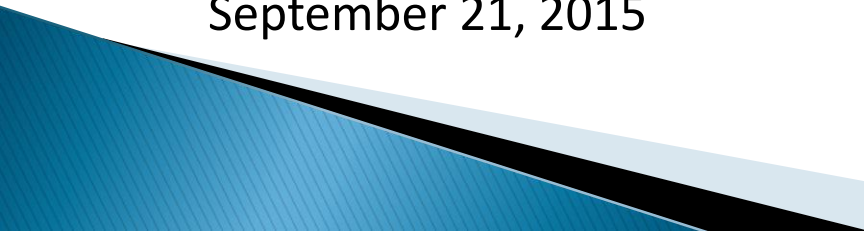
# Chesapeake Bay Program Updates

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- Updates on the State BMP Verification Plans
  - Federal Facilities Targets and Draft Milestones for 2016-2017
  - Update on Watershed Agreement Workplans
  - Overview of Management Board decisions on responding to the CAC recommendations to the Chesapeake Executive Council
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# BMP Verification Program Update

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- Extensive verbal and written feedback from independent BMP verification panel
  - Focused on principles, framework, workgroup verification guidance, and jurisdictions draft verification program plans
  - Through 8 conference calls and 5 face-to-face meetings
  - Review Panel's Guidance and Recommendations to the Six Source Sector Workgroups, the CBP BMP Verification Committee, and the Seven Watershed Jurisdictions –November 2013
  - Initial Feedback on Jurisdictions' Draft BMP Verification Program Plans – August 7, 2015
  - Final Feedback on Jurisdictions' Draft BMP Verification Program Plans – September 4, 2015
  - Final Recommendations for Strengthening Verification of Best Management Practices Implemented in the Chesapeake Bay Watershed – September 21, 2015
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# BMP Verification Program Update

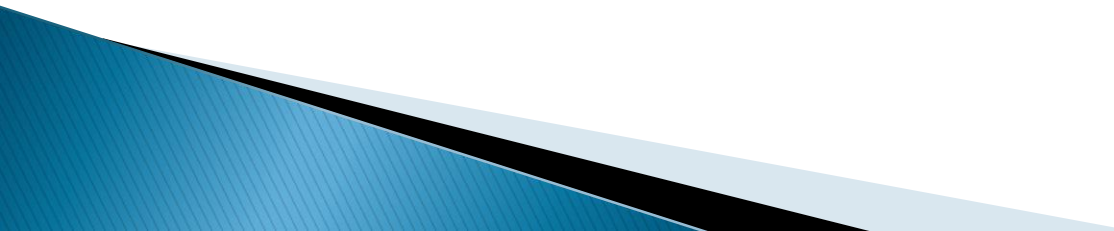
## Partnership's Independent Review Panel Feedback on States' Draft BMP Verification Plans – August 2015

	DE	MD	WV	VA	PA	NY	DC
Agriculture							NA
Forestry							
Stream Restoration							
Urban Stormwater							
Wastewater							
Wetlands							
KEY:		= Predominately consistent with Sector Guidance and Verification Principles.					
		= Notable gaps and some inconsistencies compared to Sector Guidance. States must fill gaps to be in agreement with Sector Guidance and Verification Principles.					
		= Inadequate or does not follow Sector Guidance or meet many Verification Principles. Missing substantial amounts of information or may need to change approach.					

# BMP Verification Program Update

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## CBP BMP Verification Schedule

- **November 15th:** Jurisdictions submit their revised BMP verification program plans to EPA
  - **January - April 2016:** EPA approves the jurisdictions' BMP verification program plans or requests specific changes prior to approval
  - **2016-2017:** Two year 'ramp-up' period
  - **2018:** Only verified practices will be credited in the future
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# BMP Verification Program Update

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## BMP Verification Program Plan Approval

- **Three Possible Decisions by EPA:**
  - Approval
  - Conditional approval
  - Return to jurisdiction with comments
  
- **Approval:** addresses all the Panel's feedback as well as workgroup coordinators and initial EPA feedback; provides plans and schedules for development of additional BMP verification protocols and procedures in those cases where protocols and procedures are not proposed; written and presented in a public friendly, easy to understand format/text

# BMP Verification Program Update

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## CBP BMP Verification Schedule

- **Conditional Approval:** addresses most of the Panel's/workgroup coordinator's/EPA initial feedback but some limited 'holes' in the documentation which the reviewer feels can be easily addressed by the jurisdiction; generally written and presented in a public friendly, easy to understand format/text
- **Return to Jurisdiction with Comments:** the jurisdiction did not address a significant number of the Panel's/workgroup coordinator's/EPA initial sets of feedback; provided documentation is incomplete, provided documentation is not written and presented in a public friendly, easy to understand format/text

# BMP Verification Program Update

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## Public Access to Revised Jurisdictional BMP Verification Program Plans

- EPA has asked each of the seven watershed jurisdictions to post their revised BMP verification program plans on their respective web site
- EPA will be posting the URL links to each of the jurisdictions' revised program plans on the CBP Partnership's BMP verification web page:

[http://www.chesapeakebay.net/about/programs/bmp/additional\\_resources](http://www.chesapeakebay.net/about/programs/bmp/additional_resources)

- If a jurisdiction was unable to post on their web site, EPA will post the jurisdiction's revised BMP verification program plan on the same web site listed above



# Pollution Reduction Targets for Federal Facilities and Lands

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- January 2015 - Federal Targets Action Team formed
  - Federal agency and jurisdiction representatives
- June 2015 – Federal agency and jurisdiction representatives (protocol issued)
- August-October 2015 – Jurisdictions and EPA get Federal facility targets and pollutions reduction sent to Federal agencies
- November-December 2015 – Federal agencies submit 2016-2017 milestones for each facility with N, P, S targets
- January 2016 – Jurisdictions submit 2016-2017 milestone “input decks” to EPA incorporated Federal agency milestones
- March 2016 – EPA evaluates Federal agency progress in achieving N, P, and S pollutant reductions.

# Pollution Reduction Targets for Federal Facilities and Lands

Facility	Sub-Agency	Fed-Agency	Baseline (Land-Use Year)	Impervious (Acres)		Pervious (Acres)		Baseline Load – 2010 (lbs/yr)		Target Load (lbs/yr)		Required Reduction (lbs/yr)		Reduction (%)	
				Untreated	Treated	Untreated	Treated	TN	TP	TN	TP	TN	TP	TN	TP
Aberdeen Proving Ground	Army	Department of Defense	Army still needs to provide	209	1,973	299	4,807	86,598.20	5,704.69	79,209.66	5,065.10	7,388.54	639.59	9%	11%
Adelphi Lab	Army	Department of Defense	Army still needs to provide	6	36	26	-3	772.38	71.56	726.43	64.57	45.95	6.99	6%	10%
Administrative Building B (MO County)	General Services Administration	General Federal		0	0	0	0	2.37	0.16	2.16	0.14	0.21	0.02	0.09	0.12
Ammendale Normal Institute	National Park Service	Department of the Interior		1	0	5	0	77.48	4.61	70.51	4.07	6.97	0.54	0.09	0.12
Andrews Air Force Base	Air Force	Department of Defense		1,155	19	2,871	0	48,886.82	3,217.76	44,504.91	2,840.30	4,381.90	377.46	0.09	0.12
Antietam National Battlefield	National Park Service	Department of Interior	2009	0	20	0	0	310.59	34.51	282.64	30.44	27.95	4.07	9%	12%
Appalachian National Historical Trail	National Park Service	Department of Interior	2009	0	1	0	0	10.25	1.14	9.33	1.00	0.92	0.13	9%	12%
Appraisers Stories (BA City)	General Services Administration	General Federal		0	0	0	0	5.43	0.39	4.95	0.34	0.49	0.05	0.09	0.12
ARNG Adelphi Armory	Army	Department of Defense	Army still needs to provide	0	2	0	2	49.32	3.71	44.88	3.27	4.44	0.44	9%	12%
ARNG Laurel Armory	Army	Department of Defense	Army still needs to provide	4	0	1	1	62.31	4.62	60.95	4.54	1.36	0.07	2%	2%
ARNG Olney Military Reservation	Army	Department of Defense	Army still needs to provide	2	1	2	3	75.46	4.78	71.21	4.44	4.25	0.34	6%	7%

# Pollution Reduction Targets for Federal Facilities and Lands

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Number of Federal Facilities/Lands with N, P and S Pollution

State/Jurisdiction	Reduction Targets
District of Columbia	248
Pennsylvania	45
Maryland	201
New York	11
Virginia	211
West Virginia	20
<b>Total</b>	<b>736</b>

# Pollution Reduction Targets for Federal Facilities and Lands

Army Corp	12
Air force	7
Army	109
Bureau of Land Management	2
Defense Logistics	3
Misc/Other	21
Coast Guard	7
NOAA	1
General Federal	22
General Services	165
Smithsonian	5
CIA	1
Dept of Veteran Affairs	6
USPS	1
Marines	4
USFS	101
USFWS	26
USDA	2
NASA	2
Dept of Ag	2
Navy	45
Arc. Of the Capitol	3
NPS	188
<b>Total</b>	<b>736</b>

# Draft Federal Agency Water Quality Milestone for 2016–2017

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- Almost 100 programmatic milestones drafted by 10 Federal Agencies (EPA, USDA, DOD, Army Corps, USGS, NPS, FWS, NOAA, DOT, GSA)
- Include commitments for studies, reports, evaluations, new tools, targets, scientific analysis, funding and other actions, etc.
- Public comment period through December 16, 2015
  - Posted on <http://executiveorder.chesapeakebay.net/>
- Final milestones to be issued on January 15, 2016

# Draft Federal Agency Water Quality Milestone for 2016–2017

DRAFT  
11/16/15

RESTORE CLEAN WATER	
Target Date	Programmatic Milestone
2016/2017	Provide trainings on BayFAST/CAST/MAST/VAST to federal, state and local partners in the Bay watershed. (EPA)
2016/2017	Ensure BayFAST is enhanced to improve the usability of the tool by the users and its functionality in supporting annual progress reporting (EPA)
2016/2017	Ensure BayFAST is upgraded to be consistent with the partnership's Phase 6 Chesapeake Bay Watershed Model (EPA)
2016/2017	Continue to participate in and co-chair the Federal Facilities Workgroup to enhance collaborative efforts within the Chesapeake Bay Program Partnership. (DoD)
2016/2017	Support, to the extent practicable, the 'Protocol for Setting Targets, Planning BMPs, and Reporting Progress for Federal Facilities and Lands' and identify approaches to track reductions from regulated and non-regulated land uses. (DoD)
2016/2017	Continue to participate in jurisdictions' WIP processes by providing installation information and disseminating jurisdiction information throughout DoD to support effective implementation of future Phase III WIP expectations. (DoD)
2016/2017	Continue efforts to foster healthy lands and waters, by balancing public recreational uses and needs at USACE reservoirs and dams. (USACE)
2016/2017	Develop digital land use and boundary data for USACE properties in the Chesapeake Bay watershed (USACE)
2016/2017	Assess existing and future BMPs for USACE properties in the Chesapeake Bay watershed. (USACE)
Agriculture	
2016/2017	NRCS will continue to support voluntary actions by farmers and landowners to improve water quality by providing financial and technical assistance from the Environmental Quality Incentives Program (EQIP), Regional Conservation Partnership Program (RCPP), Agricultural Management Assistance (AMA) Program, Agricultural Conservation Easement Program (ACEP), Conservation Stewardship Program (CSP), and Conservation Technical Assistance (CTA) funds. (USDA)
2016	Pilot the first incremental releases of Conservation Desktop that will enable a new user interface for Protracts in Conservation Desktop and replace Toolkit functionality in order to improve efficiency in the conservation planning process. (NRCS)

# Watershed Agreement Workplans

## MAJOR Workplan milestones and GIT Funding due dates

### MS Workplan Development Timeline

<b>July</b>	<i>(Phase 1: Brainstorm initial actions)</i>
<b>October</b>	<i>(Phase 2: Matrix development, no costs/funds)</i>
<b>November</b>	
2	GITs: Preliminary drafts due
<b>December</b>	<i>(Phase 3: Costs and funding)</i>
18	GITs: Draft workplans due to MB for 4 wk. review
<b>January</b>	
15	WQ: draft WQ programmatic milestones due
22	Begin 45-day public input period (Jan 22–March 8)
<b>February</b>	
<b>March</b>	
8	Close public input; GITs begin 2-wk. review/revision based on comments (Mar 8-25)
25	GITs: Revised drafts due to MB for April 14 meeting
<b>April</b>	
15	WQ: final WQ milestones due (tentative)
22	GITs: final revisions due
30	Workplans final, post on web

# Watershed Agreement Workplans

1								
2	<b>Outcome: Brook Trout</b>							
3	<b>Goal:</b> Restore, enhance, and protect a network of land and water habitats to support fish and wildlife, and to afford other							
4	<b>Outcome:</b> Restore and sustain naturally reproducing Brook Trout populations in Chesapeake Bay headwater streams,							
5	<b>Long term Target:</b>							
6	<b>2 year Target:</b>							
7								
8	<b>Management Approach 1: Identify and Communicate Priority Focal Areas for Brook Trout Conservation</b>							
9	<b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to</i>	<b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i>	<b>Participating Entity</b> <i>Identify responsible partner for each step.</i>	<b>Geographic Location</b>	<b>Timeline</b> <i>Identify completion date (month &amp; year) for each step</i>	<b>Estimated Project Cost</b> <i>Best estimate of total project cost (needed)</i>	<b>Available funding by Partner</b>	<b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i>
10	1. Target and conserve Wild Brook Trout populations in subwatersheds that have the best potential for sustaining resiliency (Priority Level 1 patches)	Identify 10 priority patches (2 in each of 5 states) to conserve in 2015-2016	NALCC, Appalachian LCC, SWAPs, funders such as NFWF	All Bay states and NP's within the watershed				
11	2. Host dialogue on varied Brook Trout angling regulations across states and in National Parks	Inform overall restoration plans; Survey each state and NP regulatory agencies as to specific BKT regulations, create a summary document by end of 2017	Brook Trout Action Team with facilitation assistance from EBTJV? (Invitees: NPS, MD DNR, VA DNR, WV DNR, NY DNR, PA DNR)	Watershed level	12/16 - Information provided from states and NPS; 12/17 - summary document completed			Brook Trout fishery quality, angler use/opportunity
12	3. Communicate these priority patches in context with "big picture, long term" conservation planning (i.e. "best of the best")		LGAC					
13	<b>Management Approach 2: Consider Climate Change and Emerging Stressors in Determining Priorities</b>							
	<b>Key Action**</b> <i>Description of work/project. Define each major action step on its own row. Identify specific program that will be used to</i>	<b>Performance Target(s)</b> <i>Identify incremental steps to achieve Key Action.</i>	<b>Participating Entity</b> <i>Identify responsible partner for each step.</i>	<b>Geographic Location</b>	<b>Timeline</b> <i>Identify completion date (month &amp; year) for each step</i>	<b>Estimated Project Cost</b> <i>Best estimate of total project cost (needed)</i>	<b>Available funding by Partner</b>	<b>Factors Influencing and/or Gap</b> <i>Identify related factor or gap in Management Strategy</i>



# Watershed Agreement Workplans

## Completeness

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, aca inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ Almost all were at least 75% complete...
  - For what is expected by the Nov. 2 deadline

A few 60% or less complete –  
 \* Black Duck, Brook Trout, Water Quality, Healthy Watersheds, Land use options

# Watershed Agreement Workplans

## Reviewed by Workgroup

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workgroup Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, aca inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ Most have been shared or are in progress of review
- ▶ 6 of 25 have not

# Watershed Agreement Workplans

## Partner Input *Lacking*

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Partner Need
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, fror
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, acc inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ About half NEED PARTNER INPUT
- ▶ Shared table of commitments for management strategies and cut-paste... please check to make sure you are participating where you said you would

# Watershed Agreement Workplans

## Geographic Locations Identified?

Chesapeake Bay Program Workplan Reviews 11/12,

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, aca inst

Forage Fish	70%; 2 pp	yes	Yes	PA,
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► Yes, in most workplans; more expected.

# Watershed Agreement Workplans

## Cross-Outcome Actions: Climate

Chesapeake Bay Program Workplan Reviews 11/12,

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, E/g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, acc inst

Forage Fish	70%; 2 pp	yes	Yes	PA,
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► About half include; half don't

# Watershed Agreement Workplans

## Cross-Outcome Actions: Diversity

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, acc inst

Forage Fish	70%; 2 pp	yes	Yes	PA,
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- ▶ About 8 don't include any actions for diversity

# Watershed Agreement Workplans

## Cross-Outcome Actions: Local Engagement

Chesapeake Bay Program Workplan Reviews 11/12,

Workplan	Completeness	Workplan Review	Sign Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, E/g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, acc inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ All but 4 include sufficient actions for local engagement

# Watershed Agreement Workplans

## Key Challenges

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, aca inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ Funding – #1
  - For monitoring, research, local partners
- ▶ Information overload – difficult to develop workplans from varied actions
- ▶ Difficult to hone in on Priorities
- ▶ Lack of partner participation or committed development team
- ▶ Finding specific orgs to carry out actions
- ▶ Jurisdiction commitments are just business as usual



# Watershed Agreement Workplans

## Key Challenges

Chesapeake Bay Program Workplan Reviews 11/12

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, EJ g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, aca inst

Forage Fish	70%; 2 pp	yes	Yes	PA,
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- ▶ Will not meet 2016 deadline (LU methods)
- ▶ Need more local leaders
- ▶ Need to clarify how we will report progress
- ▶ Need process for measuring baselines (help from STAC?);
- ▶ Uncoordinated and extensive amount of content (need partner participation in inventory and gap analysis)

# Watershed Agreement Workplans

## Cross-Outcome Collaboration Opps

Chesapeake Bay Program Workplan Reviews 11/12,

Workplan	Completeness	Workplan Review	Sig Partner Review	Part Part Nee
Climate	90%	yes	yes	WV
Diversity	85%	No	No	DE, El g con
Blue Crab	70%	yes	Yes, except CBC	No, for
Fish Habitat	75%; 3 pp	yes	Yes, no word on NY, DC	NY, acca inst
Forage Fish	70%; 2 pp	yes	Yes	PA,

- ▶ **Diversity:** Toxic Contaminants Workgroup on fish advisories.
  - Public Access and climate resiliency teams to help identify potential sites in diverse communities.
- ▶ **Blue Crab:** Stewardship and diversity
- ▶ **Fish Habitat:** overlap with the Brook Trout outcome on an online mapping tool
- ▶ **Forage Fish:** monitoring efforts could be combined with those of the Fish Passage Workgroup; Specific management decisions that address sustainability of the forage base....Healthy Watersheds/Stream Health
- ▶ **Tree Canopy:** opportunities with Diversity, Local Leadership, and Environmental Literacy Outcomes.
- ▶ **Healthy Watershed:** Fish Habitat is working to identify key stressors and identify areas of high habitat value
- ▶ **Land Use:** Fish GIT has interest and can share experiences working with the planning communities in MD and VA
- ▶ **Protected Lands:** opportunities for cross collaboration with wetlands, climate, diversity, habitat and water quality, tree canopy, and forest buffers.

# Responses to CAC Recommendations to the Executive Council

1.	Take advantage of federal funding opportunities and untapped resources –	Lead	Status
	- Continue advocating in Congress for these funds in FY 2016 and with the White House for future years to sustain funding.	EC members	EC joint letter sent to Congress for FY16 funds for Rivers of the Chesapeake. Individual letters sent to Secretaries Jewell and Vilsack for FY17 funds for Rivers of the Chesapeake
	- Encourage the Sec. of the US Dept. of Education to sign a formal Memorandum of Understanding (MOU) with CBP to support the Env. Education efforts of the state and local education agencies in the watershed.	Enviro. Literacy Workgroup (NOAA)	Address through 16–17 workplan?
	- Encourage Congress to approve funding for acid mine drainage remediation.	PSC/EC	
	- Urge President and the Sec. of the Army to budget for the Army Corps' Chesapeake restoration work	EC/PSC	

# Responses to CAC Recommendations to the Executive Council

2.	Make the Watershed Agreement Relevant on the Local Level – allocate funding from the CB Grants Program to...	Lead	Status
	- develop report cards for each river or small watershed within Chesapeake Watershed,	Citizen Stewardship GIT	Use CBP monitoring data and new Citizens Monitoring Network info
	- bring together local leaders to develop a local community vision for restoring the watershed health.	Citizen Stewardship GIT	In diversity strategy and workplan.
	- make workplans locally relevant by incorporating local action.	All GITs	Geographic focus added to the management actions on the workplan template

# Responses to CAC Recommendations to the Executive Council

3.	Enhance Accountability by including Verification as an element of implementation–	Lead	Status
		PSC	Draft verification plans for each jurisdiction have been submitted and are being reviewed.
	- include funding to verify implementation of conservation practices,	CBPO and jurisdictions	2015 Grant Guidance clarifies that jurisdictions may use CBRAP funds for verification work.
	- create a task force to look at cost savings,	MB	Raise to GIT6 Budget & Finance Workgroup
	- review upcoming recommendations being developed.	MB	

# Questions?

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**Chesapeake Bay Program**

*Science. Restoration. Partnership.*