Environmental Finance Action Team

Final Report - "The Path Forward"

October 3, 2017

BACKGROUND

At the **July 2015 Executive Council meeting**, it was resolved that the Chesapeake Bay Program would conduct a symposium on environmental financing and report any findings and recommendations at the next meeting of this council.

In April 2016, the Environmental Finance Center at UMD, in collaboration with the CBP, held the Chesapeake Bay Environmental Finance Symposium, which provided the foundation for the analysis and recommendations for the final report issued in August 2016.

In October 2016, the Management Board convened the Environmental Finance Action Team, and charged the team with proposing a "path forward" regarding the recommendations in the report, with input from the Principals' Staff Committee, symposium attendees, and others with financing and environmental market expertise.

• ACTION TEAM MEMBERS

Name	Organization		
Jag Khuman, Chair (retired)	Maryland Department of the Environment		
Jim Edward, Vice Chair	U.S. Environmental Protection Agency		
Julie Winters, Coordinator	U.S. Environmental Protection Agency		
Emily Freeman, Staff	Chesapeake Research Consortium		
Greg Allen	U.S. Environmental Protection Agency		
Gayle Barry	USDA Natural Resources Conservation Service		
Russ Baxter	Virginia Office of Natural Resources		
Sheila Besse	District of Columbia Department of Energy & Environment		
Dr. Elliott Campbell	Maryland Department of Natural Resources		
Kari Cohen	USDA Natural Resources Conservation Service		
Mary Gattis	Alliance for the Chesapeake Bay, LGAC		
Hayley Jeffords	Pennsylvania Department of Environmental Protection		
Paul Marchetti	Pennsylvania Infrastructure Investment Authority		
Lisa Wainger	University of Maryland Center for Environmental Science, STAC		

THE PROCESS

The Action Team first conducted an exploratory analysis of all ten recommendations in the symposium report (**Appendix 4 - Environmental Finance Recommendations Matrix**).

The PSC identified three priority recommendations for the Action Team to focus on in its report: Core Recommendation #1, Theme Recommendation #3, and Theme Recommendation #1 (Appendix 1 – Finance Symposium Report Summary).

The Action Team developed a draft report in March 2016 outlining short (12-18 months), intermediate (1.5-3 years), and long-term actions (>3 years) for the three priority recommendations, as well as examples of existing related work from throughout the watershed.

THE DRAFT REPORT

The Draft report was reviewed and comments received from members of the Management Board and Principal's Staff Committee in Spring 2016.

Final report was prepared for May 2017 Principal's Staff Committee meeting approval.

Report put on hold until after 2017 Executive Council meeting.

Appendix 4: RECOMMENDATIONS MATRIX

Action Team Working DRAFT March 21, 2017



Chesapeake Bay Program Environmental Finance Symposium Recommendations Matrix

Core Recommendation #1: Advance a Chesapeake Bay restoration economic development effort.								
Partnership vs. Individual Approach?	Opportunities	Challenges/Barriers (ex. cost, workload, resource implications)		Action Item(s)	Existing Related Work (internal, external)	Responsible Entity (ex. GIT, Workgroup, other partner)		
Partnership	EPA and jurisdiction green	EPA & States help to	Sh	ort-term 12 to 18 months:	EPA G3 program and	Water Quality GIT		
	infrastructure programs -	eliminate regulatory barriers	Qu	antify the economic impact	jurisdiction GI			
	green streets, green jobs	(e.g. waste-to-energy	of	WQ capital investments	programs	Budget & Finance		
		systems)	inc	luding grants (MDE)		Workgroup		
	Analyze current CBP BMPs		Po	ssible steps:	IMPLAN (Impact			
	to determine how they can	Lack of consistency across	1.	Determine which grants	Analysis for PLANning)	EPA Region III, with		
	support local and regional	state boundaries		will be evaluated.	data exists for	help from States		
	economies, including		2.	Establish progress for	economic impact	and HQ		
	multiple benefits	Need to add economic		determining economic	modeling/jobs created	155 7700 300 300 300 300		
		development experts into the		impact of spending of	for financial	Initial costs may be		
	Since revenues for clean-up	PSC and/or State Finance		grant money including	investment by sector	able to be offset by		
	activities are hard to come	Advisory Boards.		procurement,	110 855	benefits realized		
	by, and the need is great,	5-95)		employment, and other	PG County and Corvias			
	we should look to alt. ways	Resources needed:		economic elements.	partnership is an			
	of bringing in financial	Economists, universities,	3.	Determine reporting	excellent example of			
	resources. Identifying ways	community colleges, EFC,		procedures (responsibility	how to structure such			
	that we could generate	State Economic Development		of grantee or grantor) (VA)	programs. See			
	revenues while helping	Authorities, etc.			attachment:			
	with Bay clean-up is crucial				"Elements of effective			

PRIORITY RECOMMENDATIONS

Core Recommendation #1: Advance a Chesapeake Bay restoration economic development effort.

Theme Recommendation #3: Advance public-private partnerships, where appropriate.

Theme Recommendation #1: Pilot pay for success investment models.

 $\left(1\right)$

Short-Term Actions

12-18 months

Action Item - A

Recommendation(s) Addressed: Core Recommendation #1

- Identify and develop implementable business cases for revenue-generating Bay restoration activities.
 - Purpose: Identify financially self-sustaining revenue generating activities, while simultaneously contributing to Bay restoration.
 - Proposed Lead: Jurisdictions (through existing grant vehicles, e.g. CRC or similar) to access university business schools.

Action Item - B

Recommendation(s) Addressed: Theme Recommendation #1

- Compile successful pay for success pilot project case studies from across the country. Share information through workshops, or other means, with organizations which may undertake similar efforts in the Chesapeake Bay Watershed.
 - Purpose: Expand the pay for success model into standard practice more broadly through the watershed, where feasible.
 - Proposed Lead: Budget & Finance Workgroup, in coordination with jurisdictions.

Action Item - C

Recommendation(s) Addressed: Theme Recommendation #3

- Evaluate statutes in each jurisdiction to determine current authority for P3 projects addressing water quality, stormwater and related issues.
 - Purpose: To identify jurisdictions current authorities for P3 projects and lessons learned.
 - Proposed Lead: Budget & Finance Workgroup with support of EPA Region 3 and LGAC.

 $\left(2\right)$

Intermediate Actions

1.5-3 Years

Action Item - D

Recommendation(s) Addressed: Core Recommendation #1

- Create enabling conditions for engaging private finance in Bay restoration by developing a standardized water quality credit system for the watershed.
 - Purpose: Build a watershed-wide water quality credit system into the routine CBP operations to increase predictability of ROI for private entities. Critical element in advancing an economic development effort.
 - Proposed Lead: Budget & Finance Workgroup, in collaboration with jurisdictions and STAC.

Action Item - E

Recommendation(s) Addressed: Theme Recommendation #3

- Undertake a Pilot Project using nutrient purchases (cost/pound) as a commodity for cash, in lieu of funding a BMP.
 - Purpose: Pilot the use of nutrient and sediment load purchases at a lower cost than using grant funds for implementing BMPs. Measure success by growth of private equity investments in Bay restoration and decreasing cost per pound (or ton) over time. Maryland plans to share lessons learned with the jurisdictions and other partners.
 - Proposed Lead: MDE

3

Long-Term Actions

>3 Years

Action Item - F

Recommendation(s) Addressed: All Priority Recommendations

- Measure project-specific finance metrics of success:
 - Example: Project goals delivered at or below cost projected
 - Example: Private enterprise profits from exchange
 - Purpose: Ensure that the success or failure of individual projects and the driving economic factors of either result are being reported and used to guide the overall effort.
 - Proposed Lead: Budget and Finance Workgroup, in coordination with the Bay Funders Network and jurisdictions.

Action Item - G

Recommendation(s) Addressed: All Priority Recommendations

- Measure overall finance metrics of success:
 - Example: Growth of private equity invested in Bay restoration
 - Example: Decreasing cost of pounds of nutrients reduced over time
 - Purpose: Ensure that the decisions being made are yielding desired economic results in terms of watershed wide Bay restoration efforts.
 - Proposed Lead: Budget & Finance Workgroup

Thanks!

ANY QUESTIONS?

You can find me at edward.james@epa.gov