Subject	Technical Advisory Committee Meeting #7 Virginia Coastal Resilience Master Planning Framework	Date	November 19, 2021
Facilitator	Ann Jennings - Chair	Time	10:00 am – 12:00 pm
Location	WebEx - https://governor.virginia.gov/i/tjnv5 1st Floor Auditorium, 1401 E Broad St Richmond, VA 23219	Scribe	Emily Sokol

	Invitees/Attendees			
#	Name	Organization/Role	Attended?	
	Technical Advisory Committee Members - Appointed and Invited (Alternates in Parentheses)			
1.	Ann Jennings	Chair, Secretary of Natural Resources and Chief Resilience Officer	Y	
2.	Rear Admiral Ann C. Phillips, USN(Retired)	Special Assistant to the Governor for Coastal Adaptation and Protection (STAFF to TAC)	Y	
3.	Dr. Janice Underwood	Chief Diversity, Equity, and Inclusion Officer (Omer Yousuf)		
4.	Carlos Rivero	Chief Data Officer		
5.	Clyde Cristman	Director, Department of Conservation and Recreation	Y	
6.	Dillon Taylor	Chief of Staff, Virginia Department of Emergency Management (Robbie Coates)	Y	
7.	Erik Johnston	Director, Department of Housing and Community Development (Traci Munyan)		
8.	Stephanie L. Hamlett	Executive Director, Virginia Resources Authority (Tony Leone)		
9.	David K. Paylor	Director, Department of Environmental Quality	Y	
10.	Catherine C. McGhee	Director, Research and Innovation, Virginia Transportation Research Council	Y	
11.	Steve Bowman	Commissioner, Virginia Marine Resources Commission (Rachel Peabody)		
12.	Dr. Mark Luckenbach	Associate Dean for Research and Advisory Services, Virginia Institute of Marine Science at William & Mary	Y	
13.	Elizabeth Andrews	Director, Virginia Coastal Policy Center at William & Mary Law School	Y	
14.	Dr. Robert Weiss	Director, Center for Coastal Studies at Virginia Tech		
15.	Dr. Karen McGlathery	Director, Environmental Resilience Institute at the University of Virginia,		
16.	Col. Brian Hallberg	Commander, United States Army Corps of Engineers, Norfolk District (Keith Lockwood)		
17.	Dr. Troy Hartley	Director, Virginia Sea Grant	Y (V)	
18.	Robert A. Crum, Jr.	Executive Director, Hampton Roads Planning District Commission (Whitney Katchmark/Keith Cannady)		
19.	Martha Heeter	Executive Director, Plan RVA (Richmond Regional Planning District Commission) (Sarah Stewart)		
20.	Robert W. Lazaro	Executive Director, Northern Virginia Regional Commission (Norm Goulet)		
21.	Jerry W. Davis	Executive Director, Northern Neck Planning District Commission (John Bateman)		
22.	Elaine Meil	Executive Director, Accomack-Northampton Planning District Commission		
23.	Lewis L. Lawrence, III	Executive Director, Middle Peninsula Planning District Commission	Υ	
24.	Alec Brebner	Executive Director, Crater Planning District Commission (Jay Ruffa)		
25.	Kate Gibson	Acting Director GWRC (Michael Zehner)		
26.	Dr. Robert S. Young	Geology Professor, Program Director for the Study of Developed Shorelines, Western Carolina University	Y	

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27.	Mary-Carson Stiff	Wetlands Watch Policy Director, Wetlands Watch	Υ
28.	Ashley Montgomery	Associate Designers, Hanbury	Y (V)
29.	Dr. Carl Hershner	Emeritus Professor of Marine Science, Virginia Institute of Marine Science at William & Mary	Y
30.	Jill Bieri	Director of Virginia Coast Reserve, The Nature Conservancy	Υ
31.	Kristin Owen	Floodplain & Dam Safety Manager at Henrico County, Henrico County	Υ
32.	Dr. Jessica Whitehead	Director, Institute for Coastal Adaptation and Resilience at Old Dominion University	
33.	Dr. Stephen Moret	President & CEO, Virginia Economic Development Partnership (Nathalie Molliet-Ribet)	
34.	Georgie Márquez	Principal, Andre Marquez Architects	Υ
35.	Sara Dunnigan	Deputy Director, GO Virginia and Economic Development, Department of Housing and Community Development	
36.	Eric Letsinger	CEO, Quantified Ventures	
37.	Capt. Samson Stevens	USCG Sector Commander Hampton Roads	
38.	Kathleen Jabs	Acting Secretary for Veterans and Defense Affairs (Tom Crabbs)	
39.	Rear Admiral Charles Rock	Commander Navy Region Mid Atlantic (Joe Howell)	
40.	Rear Admiral Craig Quigley (Retired)	US Navy, CEO, Hampton Roads Military and Federal Facilities Alliance	Y
41.	Mr. Reggie Tupponce	Tribal Administrator, The Upper Mattaponi Indian Tribe (Leigh Mitchell)	
42.	Capt. Tom Crabbs	USCG (Retired), Military Liaison, Office of the Secretary of Veterans and Defense Affairs	Y
43.	Chris Swanson	Resilience Director, VDOT Secretary of Transportation	Υ
44.			
		Scheduled Speakers	
45.	Brian Batten	Dewberry	Υ
46.	Mathew Mampara	Dewberry	Υ
47.	Johanna Greenspan- Johnston	Dewberry	Y (V)
48.	Jerry Sparks	Dewberry	Υ
		Designated Alternates	
49.	Traci Munyan	Program Administrative Manager, Dept of Housing and Community Development	Y
50.	Kyle Flanders	Policy Planning Specialist, Dept. of Housing and Community Development	
51.	Lee Hutchinson	Resiliency Program Analyst, Dept of Housing and Community Development	Y (V)
52.	Shawn Crumlish	Director of Financial Services, Virginia Resources Authority	
53.	Peter D'Alema	Director of Program Management, Virginia Resources Authority	
54.	Erin Sutton	Chief Deputy, Virginia Department of Emergency Management	Y (V)
55.	Robbie Coates	Grants Division Director, Virginia Department of Emergency Management	
56.	Whitney Katchmark	Principal Water Resources Engineer, Hampton Roads PDC	Υ
57.	Sarah Stewart	Planning Manager, Plan RVA (Richmond Regional PDC)	Υ
58.	Corey Miles	Coastal Resources Program Manager, Northern Virginia Regional Commission	Y (V)

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59.	Normand Goulet	Director, Division of Environmental and Resiliency Planning, Northern	Y (V)	
		Virginia Regional Commission	, ,	
60.	N/A			
61.	John Bateman	Regional Planner, Northern Neck Planning District Commission	Y	
62.	Curtis Smith	Deputy Director, Middle Peninsula Planning District Commission	Y	
63.	Jay Ruffa	Director of Planning & GIS, Crater Planning District Commission		
64.	Randy Owen	Deputy Chief of Habitat, Virginia Marine Resources Commission		
65.	Richard Klein	Civil Works Program Manager, USACE, Norfolk District		
66.	Keith Lockwood	Chief, Water Resources Division, USACE, Norfolk District	Y (V)	
67.	Tom Emerick	Chief Counsel, United States Army Corps of Engineers, Norfolk District		
68.	William "Skip" Stiles Jr	Executive Director, Wetlands Watch	Y	
69.	Scott Miller	Principal and planner, Hanbury		
70.	Carol Considine	Program Head, Flooding and the Built Environment, Institute for Coastal Adaptation and Resilience at Old Dominion University	Y	
71.	Jason El Koubi	Executive Vice President, The Virginia Economic Development Partnership		
72.	Kevin DuBois	Commander Navy Region Mid Atlantic Chesapeake Bay Program	Y (V)	
73.	Joe Howell	Commander Navy Region Mid Atlantic Regional Community Plans & Liaison Officer	Y (V)	
74.	Rachel Peabody	Virginia Marine Resources Commission	Υ	
75.	Sharon Baxter	DEQ	Y (V)	
76.	Greg Grootendorst	Chief Economist, HRPDC		
77.	Jessica Steelman	Coastal Planner, ANPDC		
78.	Omer Yousuf	Special Assistant to the Directory of Diversity, Equity, and Inclusion	Y (V)	
79.	Shannon Valentine	VDOT		
80.	Leigh Mitchell	The Upper Mattaponi Indian Tribe	Υ	
81.	Michael Zehner	Director of Environmental Programs, Berkley Group for George Washington Regional Commission	Y	
82.	Keith Cannady	Deputy Executive Director, Hampton Roads Planning District Commission	Y	
		Committee Advisors		
83.	Emily Steinhilber	Director of Virginia Coastal Resilience, Environmental Defense Fund	Y	
84.	Julie Langan	Director, Virginia Department of Historic Resources		
85.	Jessica Grannis	Coastal Resilience Director, Audubon		
86.	Megan Melinat	Director, Division of Preservation Incentives at Virginia Department of Historic Resources		
87.	Jolene Smith	Department of Historic Resources	Y	
88.	Matt Lott	Emergency Manager, Virginia Department of Transportation		
89.	Ivan Cruz	VDOT		
90.	Laura Rogers	NASA	Y (V)	
91.	Patrick Taylor	NASA		
92.	Bruce Sturk	City of Hampton		
93.	Doug Beaver	City of Norfolk		
94.	Capt. John Dewey	USCG		
95.	Capt. John Barresi	USCG		
96.	CDR Jeremy Hall	USCG	Y (V)	

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97.	Capt. Jennifer	USCG		
	Stockwell			
98.	Scott Spencer	Office of Economic Adjustment, Department of Defense	Y (V)	
		Subcommittee Staff Advisors		
99.	Matt Jones	Virginia Management Fellow	Y	
100.	Shep Moon	Coastal Planner, Virginia CZM Program	Y (V)	
101.	Joshua Saks	Deputy Secretary of Natural Resources		
102.	Jefferson Flood	Virginia Coastal Zone Management Program	Y (V)	
103.	Katie Sallee	Confidential Assistant to the Secretary of Natural Resources	Υ	
104.	Meryem Karad	Assistant Secretary of Natural Resources	Y (V)	
105.	Laura McKay	Virginia Coastal Zone Management Program	Υ	
		Other Participants		
106.	Connor Winstead	DCR	Υ	
107.	Matt Dalon	DCR	Y	
108.	Lydia Bienlien	Virginia Sea Grant Fellow	Y	
109.	Brent Hunsinger	FOR	Y (V)	
110.	Karen Forget	Lynnhaven River NOW	Y (V)	
111.	Gray Montrose	Virginia Coastal Policy Center	Y (V)	
112.	Carolyn Heaps	City of Hampton	Y (V)	
113.	Cirse Gonzalez	CBNERRS	Y (V)	
114.	Erin Reilly		Y (V)	
115.	Jay Ford	CBF	Y (V)	
116.	Kyle Spencer	City of Norfolk	Y (V)	
117.	Anna Killius	JRA	Y (V)	
118.	Lauren Landis	CCAN	Y (V)	
119.	Nathalie Molliet-Ribet	VEDP	Y (V)	
120.	Margaret Rockwell		Y (V)	
121.	Rob Martz	HRSD	Y (V)	
	Consultant Support			
122.	Emily Sokol	Vision Planning and Consulting	Y (V)	

	Agenda/Minutes			
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1.	Introduction	Secretary Ann Jennings called the TAC Meeting to order, introduced herself, and provided a brief overview of today's meeting agenda. She asked for public attendees to submit questions to the chat box and advised Katie Sallee will be moderating the chat. Secretary Jennings read the required verbiage and asked Rear Admiral Ann Phillips to take roll. Rear Admiral Phillips called roll and advised that a quorum was present.		
		Secretary Jennings asked everyone online to stay muted unless they were presenting. After presentations, committee members can be unmuted for discussion by raising their hands. Staff will assist with recognizing attendees who have questions or comments. Members of the public will be allowed to ask question through chat box		

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		only by those who signed up in advance. This will take place during the last 30 minutes of the meeting. If anyone has any questions or there are any interruptions in the meeting, please call 804-316-4478 or email katie.sallee@governor.virginia.gov .		
2.	TAC-Related Updates	Secretary Jennings asked Rear Admiral Phillips to provide any new updates related to the responsibilities of the TAC.		
		Rear Admiral Phillips: I would like to thank Katie Sallee and my staff – Matt Dalon, Connor Winstead, and Matt Jones, as well as our new Virginia Sea Grant Fellow, Lydia Bienlien. The CRMP document is currently under review in the Governor's Office of Policy. It is also being checked and reviewed again by our staff. We are getting closer to completion and still look to release the document in December. We have discussed future modeling, incorporating rainfall flooding and pluvial flooding into the impact assessment. We will be hosting an informational meeting on December 1st that is posted on the website. Please mark your calendars, as we need your input. It is an informational working session and will be virtual.		
		We disseminated smooth, more finalized versions of the recommendations provided by each to the Subcommittee Chairs. We asked that you review the recommendations, as we would like to make them an appendix in the document. We have heard from the Finance Subcommittee, but we have not heard from anyone else. So, please review that as soon as possible and let us know if you want any language changed.		
		We also have an extensive list of acknowledgements of those who have been contributing to this process. We do not want to leave anyone out who participated, so please take a look at this document, and tell us if you have any changes that need to be made. Please let us know if there any errors or omissions- a large number of people have contributed to this, and we want to make that known. You have also received a link from Connor Winstead to provide your contact information and address so that we can properly thank you for your efforts, as well as provide you with the core version of the plan.		
3.	Dewberry Team Presentation – Web Application	Rear Admiral Phillips: At the last meeting, Dewberry demonstrated the Web Application. Today, they will be providing a walk-through of the updates that have been made. It is still a work in progress, but they have made significant changes. I will now turn the floor over to Dr. Brian Batten and Mathew Mampara.		
		Mr. Mampara: We are still hammering out some elements of the Web Application, but we have made some generous developments since the last time we met. We will start with the introduction, which includes disclaimer text and provides context around the function of the Resilience Web Explorer. It has a direct analog to the Master Plan regarding what it is trying to cover and represent. The Web Explorer being a web application allows us to make regular and expedited updates, rather than a full update to the plan would allow. Primary elements that compose the Web Explorer include an understanding of hazards, community context, building coastal resilience, and funding coastal resilience.		

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		Hazards: The first development that has been made is providing the legend on default. For this aspect, the user has the ability to query and identify for the particular live time horizon what the nature of the inundation is for the selected area. The FEMA Special Flood Hazard Area is also presented as a service. For those familiar with that web service, it has its limitations in up-time, but the Commonwealth's desire is that the FSHA will fill in the gaps between the data that was developed for the CRMP. There are a number of basic functionalities provided by the map, including being able to look at various base map sources. The legend presents the nine frequencies, as well as the standard information provided by the web service from FEMA.	
		Impacts: The impacts are organized in three primary themes: impacts to community resources, impacts to critical sectors, and impacts to natural infrastructure. These are heat map presentations. At quick glance at any geographic level, one is able to see where those hot spots exist in time and space. There are a few other impacts that are currently being added to the natural infrastructure element.	
		Community Context: Based on your feedback, one major focus of our work was separating out the fact that we have a number of reference data sets to support understanding of social/economic vulnerability across the area of study. But we also wanted to show where that hazard and vulnerability come together. The problem is that the population and demographic information is based on 2018 survey data. As we project the hazard into the future, we want to be clear that we have a static presentation of population information working with a dynamic presentation of hazards. We have tried to accordion this element into two pieces: the reference data piece and the coastal hazard and vulnerability piece. For the Reference Data element, one thing we accomplished was driving the ACS data to a residential level. It has its limitations. It is a model, but I think the desire and feedback we received at outreach efforts found this additional resolution to be helpful in discerning where pockets of vulnerability lie across the Commonwealth and the localities. So, we ended up opting to include that. What you are seeing on the screen represents the five elements of the social vulnerability index. The vulnerability index is driven by where residential structures exist in the landscape. Gaps demonstrate where you have no structures/nonresidential structures.	
		Projects and Initiatives: We added filters and context information to support the ability to identify existing projects and where they lie across the landscape. A number of filters have been introduced, with the highest-level filter separating resilience projects and capacity building initiatives. We start with a total of 516 projects and can then filter down by the project type based on the hazards being addressed (coastal hazards or other flooding hazards) and project class (hybrid, nature-based, structural). There is informational text provided, which is a function of what has been provided by those that have submitted these projects. Not all of the projects have all of the desired information, but the majority of the projects have enough information to provide a quick summary. Then, potential funding sources are listed below. We have a master list of funding sources of about 100 sources. There is a matching algorithm that assigns potential funding sources to the project based on the background information provided. It then can overlay they types of impacts seen in the area.	

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		Funding Opportunities: There is a master database of funding sources- 96 different funding sources. To support efficient review and evaluation, we can search the funding sources by any of these columns for any particular search term. This provides a useful tool to the Commonwealth, PDCs, and localities to identify funding sources to pursue.		
		There is still some additional work to deliver, but we have been appreciative of your feedback and have tried to incorporate everything into Version 1.0 of the Resilience Web Explorer.		
		Questions		
		Laura Rogers (in chat): Can you share the link to explore the data or is this still under development? - Rear Admiral Phillips (in chat): The link will go live when the Master Plan is released.		
		Clyde Cristman: In some of our DEI work, I have been learning more about accessibility in web-based applications. On your hazard layer, you have shadings of green and blue that will likely be very difficult for individuals who are colorblind and have visual difficulties to explore. I wonder if there is something that can be added to that layer that allows individuals who have visual difficulties to better access the Web Explorer. - Mr. Mampara: We have had problems in the past relaying the complex information of graphs in an accessible way. From a symbology perspective, there are things we can update, as they are straightforward abilities provided by the web application. But the larger conversation of accessibility regarding mapping has been a challenge for us in the past. It has come up in other mapping applications we have created, but I have not seen, in my research, someone who has realistically achieved that. - Rob Young: We are developing hazard maps for the NPS that take into account 508 compliance and accessibility issues. My team might have some examples to help you. - Mr. Mampara: Thank you, that would be great.		
		Mr. Young: I have a question about your disclaimer. If someone read the disclaimer that said, "We don't trust the data reflected in these graphs," they would not be likely to engage the graphs. That is a big disclaimer for a web application that is public facing. North Carolina does not have a disclaimer on their web application. There has to be a better way to frame that disclaimer. - Rear Admiral Phillips: That language has been pulled directly from DCR's website. - Mr. Young: I find the language problematic. - Rear Admiral Phillips: That is the language we developed with Legal.		
		John Bateman: I have a question about the limitations of the data. Where are the limitations reflected on the web application? - Mr. Mampara: For each component of the application, there is a notes and limitations page, which largely mirrors what is in the plan regarding known limitations.		

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		 Mr. Bateman: I am hoping that the Master Plan lays out a path to address these limitations to ensure that this data is more reliable and reflective in the future. 		
		 Dr. Mark Luckenbach: We all recognize that this needs to be an ongoing and updated process. I think one of the last sections you talked about is financing options. As we come to the end of this stage, not quite knowing the next stage as this product is delivered. Is there a robust training component in the contract that says that the people to which this product is being delivered can go in and update the list with new finance options or update any portion of the web application? Rear Admiral Phillips: The whole point is to continue working on the plan, add new projects, and improve the financing database. That effort will need constant attention. It will be a challenge to continually update the database, but we picked software that DCR can manage and has the technical expertise to handle. The larger challenge is actually getting the information to update the database. Dr. Luckenbach: Has there been training in DCR so that someone knows what reference table to look to identify funding sources and add them to the web application? That way, when the product is dropped on your desk, someone in your office has the training to make alterations. Rear Admiral Phillips: For the first year, Dewberry will help us host and update this application. We need to sort out the technical aspects because we do not yet have those pathways, but the intent is to identify how we can 		
		expand it over time, in the context of the user applications. Chris Swanson: Can the finance database have a "Last Modified Date", so users know how up to date it is? - Mr. Mampara: Yes, that is a fantastic idea. Thank you.		
		 Laura McKay: For the project database, can you go to that database and identify the total cost of all of the projects? Mr. Mampara: That is not a functionality that exists now. We are still discussing what parts of the web application will be exportable and downloadable. The project list is one of the top priorities for this function. I do think there are a number of projects that do not have dollar costs associated with them. We broadly note that the project set is still very much a work in progress. To tally what is in their now, we should be able to support that by exporting that information out. Rear Admiral Phillips: We have consciously stayed away from including that number in the plan, because we know that it is not complete. 		
4.	Discussion of Next Steps, Overarching Recommendations, and Legislative Recommendations	Secretary Jennings opened the floor to Dr. Carl Hershner to provide an update on the Subcommittee's overarching recommendations. Carl Hershner: As proposed in the last TAC meeting, I provided and solicited input on the draft recommendations from the TAC members. The goal is to provide short-term specific suggestions to the next administration based on the ideas that have been developed over the last two years of work to improve the quality and capacity of the		

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		work moving forward. I only received two comments, one of which came 3 days ago. Dr. Troy Hartley suggested a number of additions, which fundamentally changed the character of the recommendations. I brought five overall, concise recommendations. What Dr. Hartley has suggested is a more comprehensive set of recommendations that includes all of the recommendations identified by the subcommittees. Both ideas are valuable and to their own merit, but it is up to the TAC to determine what the set of recommendations should be. We should have a discussion about this to determine what will be best.		
		Secretary Jennings: To be expeditious, let us first shift to Elizabeth Andrews to discuss legislation, then to Ashley Montgomery to discuss outreach, and then we will circle back to Dr. Hershner to allow these discussions to shape the overall recommendations.		
		Elizabeth Andrews: What legislation does this TAC believe would be good to pursue going forward? I do not have current recommendations for legislative pursuits, but this is a conversation to discuss what the TAC would like to pursue. Speaking from the Subcommittee recommendations, additional capacity needs to be provided at the State level, which would likely require legislation for a budget amendment. We also suggested a revolving loan fund to serve as an alternate for the RGGI fund and then as an alternate when RGGI funds diminish would be vital. I will now open the floor to any feedback and discussion by the TAC members.		
		Discussion Point- Dr. Hershner: The two things that would seem most critical would be to recommend some legislative solution to continue our responsibilities and maintain this process, as well as the establishment of funding for the process. - Ms. Andrews: Both the CRMP and the TAC were created by Executive Order. How does the TAC feel- would it be beneficial to have the TAC and CRMP more embedded in the code to continue the development of the CRMP?		
		Discussion Point- Whitney Katchmark: Hampton Roads PDC has been discussing how to make this a long-lasting planning effort and create a better structure moving forward. We have a white paper for a proposal, and we have started working on legislation. We have a proposal to create a Flood Board. To build off this CRMP process, we want to appreciate all that has been accomplished but also realize there is more to do and, instead of continuing what we are doing, let us look broader and consider how Virginia can address flooding across the State. How can Virginia create a way to thoughtfully develop projects and integrate existing State and Federal programs that exist? This is offering to look at a different mechanism to address flooding. It would create a Flood Board of 16 citizen-appointed individuals, with a dedicated staff of 12 and a director. We are open to input. For many State programs, there is a process with a board that has oversight over programs and grant programs, providing transparency. We could bring other components in- the appointed Board could have a scientific and technical advisory committee that could answer questions about what the best options are. There could also be a stakeholder advisory committee to answer questions about what the priorities are for the communities, what are the gaps, how to conduct community outreach, etc. This just provides a different structure to this process, divvying up the efforts in a way that is more effective.		

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		 Ms. Andrews: In codifying the Flood Board, would this also codify the process of updating the CRMP on a regular schedule? Ms. Katchmark: Yes, it would also put forward an idea for developing regional plans, separating the state into pieces that make sense. It is difficult to create the structure based on the types of flooding hazards being experienced. It is important to not just have a statewide plan, but also regional plans to piece this together. This proposal also establishes an annual assessment of the alignment of programs across the state, and it includes reference to creating a funding source. I can pass it around. I have 30 copies, but the document is hard to skim on the fly. Ashley Montgomery (in chat): I think executing something of that effect would lend itself well to the type of groundwork that is necessary to continue/create the in-depth community engagement process that is needed to further resilience/flooding planning. 	
		Mary-Carson Stiff: We are certainly in support of any effort to codify the TAC, as well as a master planning process. It is important that written legislation includes expanding the Coastal Resilience Master Plan beyond the coast to include the rest of the State. That is important to support future conditions planning and address flooding problems across the State. We need to think more about the rest of the State and the increased flooding they have experienced. We are in support of oversight over the Commonwealth Community Flood Preparedness Fund. We think it is important to have a group of people looking at the process by which grants are provided or projects are chosen. The idea of coordination across agencies for consistency is another important idea that we have been exploring. There is so much going on in the resiliency space, and it is important that there is not too much variability, to support Commonwealth planning. Coordination for consistency would be very helpful. We also have ideas for supplementing funding sources.	
		Keith Cannady: You ask a really important question about if this CRMP process should continue and whether the TAC should continue moving forward. I certainly think so. Are there any second thoughts about that among the members of the TAC? - Ms. Andrews: Does anyone believe that we should not continue the TAC? What Whitney is discussing is a much broader effort. - No hands raised. - Dr. Hershner: Institutionalizing the TAC and the CRMP process is vital to the continuance and maintenance of coastal resiliency efforts.	
		Kristen Owen: I just wanted to reiterate what Mary Carson said. It is important to codify something regarding to coordinating for consistency. From a local level, it can be difficult to get things done when different agencies are working on so many different projects and have different standards. It is a specific issue that falls into statewide planning, but it would improve our resiliency. Master planning and flood resiliency planning needs to be expanded statewide. That is essential and needs to be codified, funded, and staffed. Many of us are trying to do resiliency work but have difficulties because of the lack of consistency and the lack of focus on non-coastal regions.	
		Michael Zehner (in chat): Is it possible for Whitney's document be emailed to the group?	

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		- Rear Admiral Phillips (in chat): Michael, the State does not have this document. It will be part of the minutes / record.		
		Dr. Luckenbach: Are any members of the TAC opposed to the idea of expanding the CRMP statewide? - No hands raised Ms. Andrews: Great, we have a consensus on the idea of institutionalizing the CRMP, as well as expanding it statewide.		
		Questions for Whitney Katchmark		
		 Tom Crabbs: When you developed this document, were you thinking that the Commonwealth Flood Board would be an evolution of the TAC? Ms. Katchmark: No, I believe the individuals of this committee would likely be serving on the stakeholder and scientific and technical advisory committees. The board would be citizen-appointed. Ms. Andrews: What I pulled out of the introduction of the document is that it is a Flood Board with staff to support, as well as a Stakeholder Advisory Group and a Scientific and Technical Advisory Committee, to encourage regional plans, oversight of the Community Flood Preparedness Fund, and coordination of flooding efforts. And it would be statewide. 		
		Georgie Marquez: This plan was put together by HRPDC? What agency would this board be operating under? - Ms. Katchmark: Right now, it is under the Secretary of Natural Resources, but it is a separate department. We have had a lot of discussion about where this should be housed, and if you have any ideas, please share. - Ms. Marquez: Are we trying to reinvent the wheel here? Are we duplicating efforts that have already been started that could just be better supported and funded? All of this work should continue and be funded. Do we need to create something new?		
		Secretary Jennings: Ms. Katchmark, this document will have to be posted on our website so that it can be viewed by the public. - Ms. Katchmark: That is fine.		
		Secretary Jennings: Ms. Andrews, can we move on shortly to hear from Ashley Montgomery about the continuation of outreach and engagement - Dr. Hershner: Is it not possible to take the list of items that you took from Ms. Katchmark's white paper and include what recommendations we have already developed? - Ms. Andrews: When the Finance Subcommittee was drafting its recommendations, we did not want to kill any suggestion out of the gate, so we left it a little bit vague regarding the number of staff and the amount of money that would be allocated to the effort. The white pager that Ms. Katchmark and HRPDC developed is quite explicit.		
		Ms. Stiff: Is the intention to also include resiliency in addition to flooding? Regarding consistency, this CRMP has been focused on resilience, but has been largely focused		

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# Agenda Item	Intentions of the Flood Board is to provide oversight of the CFPF, so I understand that overlap needs to exist, but if we are discussing coordination across agencies, then it likely needs to be expanded to include resiliency. Dr. Hershner: To bring an element of simplicity, I believe we should start with flooding and expand further into resiliency later. Ms. Andrews: I agree. Ms. Stiff: There are also concerns about representation on the board of rural communities. Ms. Katchmark: We would love to do this more comprehensively, but this process is constantly changing. Starting with flooding first is appealing. As far as who would be on the board, we have heavily discussed how that board would be developed, but we have kept it vague so far to just establish a "citizen-appointed board." Ms. Andrews: Is there anyone from a rural community that would like to comment on this issue? Lewis Lawrence: I think this effort is pointing the ship in the right direction. Mr. Crabbs: Are federal stakeholders considered as part of the makeup of this Flood Board? Ms. Katchmark: We did not pull that out very clearly, but I see that existing in the stakeholder advisory group. Dr. Hershner: Can we circle back to funding? Ms. Katchmark: The perfect world, this is a basic government function. We would love to have staff supported by general funds, but we also have RGGI proceed funds. For a small staff, with \$2.5 million, you could have a robust program. By using RGGI funds, you could expand and build capacity more effectively through this effort. Dr. Hershner: I was less concerned with crafting funding for this proposal. I wanted to discuss multi-faceted funding sources. Mr. Lawrence: Then we need to look at how these funds are directed through the system. The types of funding programs out there need to make sure that cash flow works. Most programs are reimbursable, so someone needs to be willing to write the check first. Mr. Cannady: I am hearing a discussion of operating vs. capital. There is a need to staff this effort			
	Secretary Jennings: This has been a fantastic discussion; however, we do need to move on.			

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5.	Discussion of Next Steps, Outreach	Secretary Jennings turned the floor over to Ashley Montgomery to provide an update on next steps for outreach and engagement. Ashley Montgomery: What we found during the process of the Master Plan is that we could not drill down into the communities in the way that we needed to in such a short time span. We need to focus on how to execute community engagement at the community level, which requires a significant amount of community building. Every region has different needs, so working at the scale that we are is very difficult. To create that capacity and conduct outreach at multiple scales, and on a digital scale, is vital. Where we lacked was in old-school methods – knocking on doors, meeting with			
		local leaders, engaging with local communities. The document that Ms. Katchmark provided begins to address how to create a holistic outreach process. We need to establish trust with the communities, since the majority of citizens do not know that this process is happening. We need to work with local organizations, such as Virginia Community Voice. I think it is important to build capacity and language into a legal standing that we are voting on today that highlights the importance of future outreach efforts. We cannot keep working on this higher level. We also need to have a structure for grassroots efforts- who can citizens talk to in their local communities about this effort? We need to create a structure that educates these local organizations, so that they can in turn educate their communities. The biggest thing is building capacity to build trust in the communities. A clear media outreach toolkit is necessary to build that educational component so that the citizens can reach out to us to tell us what they need and the hazards they are experiencing.			
		Questions			
		 Mr. Bateman: Whatever the structure that continues this work, it needs to ensure local representation and communication. For my PDC counterparts, have you found the process to date effective or beneficial for your localities? Should the nature of our engagement change? Mr. Cannady: I think when we were looking at the schedule for this effort in comparing what was going on in other states, it was a major concern for our city managers. The process that we experienced proved that. To Ashley's point, we need to step up our game on outreach efforts. We have made a lot of progress in spite of the lack of time to tackle the problems we are facing. Mr. Bateman: Whatever form it takes, it needs to ensure that. David Paylor: I would echo that sentiment. What Ashley and I aimed to conclude is that the outreach effort needs to change. We need to do a better job of identifying the audiences that need to be heard. Community outreach should be a responsibility of any entity that is created. Effective community outreach has to happen differently. I argue that we continue the discussion about how to be effective in this capacity. 			
		Rear Admiral Phillips: I would like to give our tribal liaison an opportunity to speak on this matter as well.			

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		Leigh Mitchell: One thing that the tribes want to propose is an additional sixth item to the recommendation memo: Tribal engagement is requisite and essential to project development. Tribal engagement is essential to the development of the CRMP. A lot of these projects will trigger section 106 consultation, and tribes will be consulted by USACE. I think it would be helpful to have that consultation prior to project development. I would hope that the TAC considers a stronger engagement of tribal authorities. This is being suggested as an addition to the list of overall TAC recommendations.		
6.	Next Steps	Ms. Andrews: I have a question. Are these recommendations proposed by Ms. Katchmark to supplant what Dr. Hershner has already circulated? I have typed up six items from what we discussed regarding Ms. Katchmark's white page. Dr. Hershner: That would be my proposal. Folding in Ms. Mitchell's key point into the outreach and coordination effort would provide us with four overall recommendations that we have discussed. What I propose is that I work with Elizabeth, Ashley, and Leigh to develop the list of four recommendations. We can then circulate the recommendations to the TAC for any edits. Then, we invite the members of the TAC to sign on to the letter, so if you do not like the recommendations, you do not have to sign, but if you do your name will be added to the list that goes forward. Secretary Jennings: So, you will develop the list of four recommendations and disseminate to all members of the TAC for their feedback. Once the recommendations are finalized, the TAC members can determine if they would like their name to be signed onto it. Dr. Hershner: Just a reminder that when we ask for feedback, please do not offer up additions that will increase the number of the recommendations. We want to keep the recommendations short and explicit so that the future Governor is clear about what we need. Clyde Cristman: Another reminder is that we need to Bcc everyone when disseminating this information, as to not trigger FOIA. Secretary Jennings: Thank you, Clyde. We had not anticipated an official meeting with the DOT/Senate for a confirmation hearing. We will be holding a public event for the release of the CRMP, and you are all invited. Ms. Stiff: Is there a way to vote on the document as a TAC? I feel like it would be more convincing to the next Governor if there as a consensus from the TAC. Secretary Jennings: Think you run into the problem that some of the members of the TAC are members of government agencies. A TAC recommendation cannot/does not reflect an agency position, so it must provide that clarifyin		

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		 Ms. Owen: I would just propose that we make a relatively short meeting to vote on this. Secretary Jennings: As Carl has suggested, I suggest the recommendations be circulated through BCC and then indicate to Carl your vote. If you get all members of the TAC to sign on, you can relay that it is a consensus. But if not, you can demonstrate who all has signed on still. 		
7.	Public Comments	Secretary Jennings opened the floor to public comments. No one signed up for public comment, and no comments were posed during this time.		
8.	Motion to Adjourn	Secretary Jennings: Rear Admiral Phillips and I offer our sincere appreciation for your engagement today and over the course of this process. It has been a truncated process, but as this work continues, we need to build off what we have learned and what has not worked. I will take this opportunity to thank Rear Admiral Phillips. From my observation, I have seen someone who has been a strong supporter of your participation in this process and someone who sought that the product be a collaborative effort. We are grateful for her work ethic. She worked under a tremendous amount of pressure. We had a lot to do in a short period of time, and there is a tremendous amount of work left to do. It is our hope and anticipation that the next administration will want to build on this. It cannot be ignored. Secretary Jennings adjourned the meeting at 12:12 pm.		

	Action Items					
#	Action Item	Owner (Organization)	Due Date			
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2.						
3.						

If you have any questions, please contact Emily Sokol, Vision Planning and Consulting, at esokol@vision-pc.net.