

DRAFT MINUTES
 TECHNICAL ADVISORY COMMITTEE TO THE BROWARD COUNTY WATER ADVISORY
 BOARD

Friday, June 17, 2022, 9:30 AM Hybrid Meeting via Zoom

A meeting of the Technical Advisory Committee (TAC) to the Broward County Water Advisory Board was held on June 17, 2022, commencing at 9:30 am in person at 115 S. Andrews Ave Room 302 and virtually on Zoom. (The TAC meeting minutes were summarized by Gregory Mount (Gmount@Broward.org or 954-519-0356). Copies of the presentations are filed with the supplemental papers of the meeting.)

Please note that discussion within the room was difficult to hear due to issues with microphones in the room.

Link to the recording:

Topic: 6/17/2022 TAC

Start Time: Jun 17, 2022 08:47 AM

Meeting Recording:

<https://broward-org.zoomgov.com/rec/share/vOio1gC138AmENKLuMb3rAM6NSCMP-yTaQwdjMpK9ZdEqFsS4MqZvVQ5-tpoXAdk.TBsOznIQ9kKyh-gU>

I. Roll Call

Name	In Person	Virtual	Absent	Alternate Name
Kevin Hart (Chair)	X			
Randolph Brown Vice- Chair		X		
Albert Carbon	X			
Alan Garcia	Alt In-person			X Susan Bodmann
Brett Butler			X	
Commissioner Doug Bell	X			
David Walker	X			
Giovanni Batista			X	
Heather Cunniff	X			
Isabel Cosio Carballo			X	
Dr. Jennifer Jurado			X	
Jose Lopez	X			
Leny Huaman	Alt In-person			X Dawn Teetsel
Lisa Milenkovic			X	
Mike Bailey			X	
Mike Crowley	Alt In-person			X Adolfo Gonzalez
Patrick Davis	X			
Pete Kwiatkowski	Alt In-person	X		X Lorraine Mayers
Rafael Frias	Alt In-person			X Melissa Velez
Renuka Mohammed		X		X Kiersy Pena Bratton
Heather Cunniff	X			
Stephanie Pearson			X	
Steve Holmes			X	
Steve Urich			X	
Suzanne Mechler			X	
Talal Abi-Karam	X			
Tim Welch	X			Carrie Kashar

II. Statement of Meeting Objectives

A meeting of the Technical Advisory Committee to the Broward County Water Advisory Board was held on April 22, 2022, commencing at 9:30 am on Zoom.

III. Public Comments

None Provided.

IV. **TAC Approval of Minutes of April 22, 2022

Motion: Patrick Davis, Second: Lorraine Mayers, Vote: Unanimous.

V. Announcements

Dr. Mount several announcements, first he made an announcement about two upcoming vacancies: 1) Utility director/city engineer/public works director; and 2) Independent Water Control District. Applications will be due before the meeting in August. He also provided information about the data request that was recently asked for in support of the Countywide Resilience Plan and provided information about the FDEP grants. Also presented was a request for internship positions to support students seeking careers in the wastewater industry, and finally the retirement of Mike Crowley from the CBWCD.

VI. Presentations

- A. Florida Rural Water Association's Apprenticeship Program (20p, 10d)
Chris Muesing, Apprenticeship Program Coordinator, Florida Rural Water Association

Mr. Muesing provided information concerning an 2-year nationally approved apprenticeship program based out of the workforce development program and is looking to expand into SE Florida. He gave an overview of the program to date and the classes that have been completed, as well as the content of each of the classes and the workshops provided. He provided the apprentice requirements which requires 288 hours of instruction and 4000 hours of OTJ training. The program provides benefits to the systems as well-trained applicants will be looking for jobs or could move from apprentice to full time employee within the agency.

They are currently looking to start a class in Pompano Beach and are also hiring trainer for the classes.

- B. Tropical Cyclone 1 (Alex) – Rainfall, Flooding, and other Hydrologic Effects (20p, 20d)
Dr. Rajendra Sishodia, Environmental Program Supervisor, Resilient Environment Department

Dr. Sishodia presented the data collected during the most recent storm, TC 1, that eventually turned into TS Alex, which covered the total amount of rainfall from various sources. The storm was between a 10 and 25 year rainfall event, with 24-hr rainfall between 4 to 11 inches and 72-hr rainfall between 7 and 12.5 inches. A collection of photos from the Sea Flooding crowd source application and other images provided by members and social media were used to show the isolated flooding.

Canal levels from the primary system were presented, all performed as expected and water levels were maintained. A high level of interagency coordination made for a successful recovery after the storm.

After the presentation, Chair Hart led a discussion between the members about the storm, responses, and the outcomes. Ms. Bodmann contributed a map and presentation that showed an after-action report of issues and successes in her management areas. Mr. Vialpando added that coastal structures with underground parking garages are installing sump pumps rather than water proofing walls and will continue to raise tailwaters in the stormwater management systems.

- C. Trends in Monitored Saltwater Concentrating- a summary of the Broward County Saltwater Intrusion Workshop.
Dr. Rajendra Sishodia, Environment Program Supervisor, Resilient Environment Department.

Dr. Sishodia then continued with another presentation that summarized the results of the recently held Saltwater Intrusion workshop. The workshop received presentations from the USGS and SFWMD and covered the challenges and risks that we are facing in Broward County, the saltwater intrusion trends and future conditions considerations, and the methods of measuring the saltwater interface.

A discussion and tabletop exercise followed to highlight areas that future work should be focused on, and where other potential issues could be identified. Dr. Mount continued with additional information about plans to revisit orphaned wells and soliciting assistance from stakeholders in the areas identified.

- D. Adoption of Future Extreme Rainfall Change Factors for Flood Resiliency Planning in South Florida (20p, 10d)
Dr. Carolina Maran, P.E., District Resiliency Officer, South Florida Water Management District

Dr. Maran provided a presentation on the recently adopted rainfall intensification change factors. Dr. Maran began with an overview of the projects organization and the key members involved. Dr. Maran then discussed the downscaling methods and relevant datasets used in the analysis. A thorough description of the methodology and models used was also provided.

The overall goals are to provide an understanding of future extreme rainfall conditions to aid planning and enhance flood vulnerability assessments. The results are geared towards event simulation scenarios not for long term simulations and regional planning efforts. The level of resolution does not provide the granularity to modernize design criteria or regulatory programs.

Dr. Maran summarized a series of data plots and explained that rainfall change factors in Broward County is 17% for the 25-yr 1-day event, and the 100-yr 3-day event is 23%.

Questions were relayed by Chair Hart to Dr. Maran due to technical difficulties in the room. Commissioner Bell recounted a historic 1940s storm and asked what the implications for such a storm would do now. Dr. Maran shared that she had some research available and would be able to share it.

VII. New Business and Open Discussion

a. Future topics request

i. Cyber security related to resilience

VIII. Next scheduled TAC Meeting: August 19, 2022, 9:30 a.m.

IX. Next scheduled Joint WAB/TAC Meeting: September 9, 2022, 10:00 a.m.

X. ADJOURN