



SFWMD C-8 AND C-9 WATERSHEDS FLOOD PROTECTION LEVEL OF SERVICE ADAPTATION PLANNING AND MITIGATION PROJECTS STUDY

**Date:** July 18, 2022

**Time:** 2:30 PM – 3:30 PM

**Subject:** Bi-Weekly Meeting #28

Attendees Highlighted:

- Hongying Zhao, **SFWMD**
- Ana Carolina Maran, **SFWMD**
- Nicole Cortez, **SFWMD**
- Akin Owosina, **SFWMD**
- Ann Springston, **SFWMD**
- Lichun Zhang, **SFWMD**
- Matahel Ansar, **SFWMD**
- Larry Brion, **SFWMD**
- Carol Ballard, **SFWMD**
- Ruben Arteaga, **SFWMD**
- Sashi Nair, **SFWMD**
- Francisco Pena Guerra, **SFWMD**
- Shahana Mona, **SFWMD**
- Vijay Mishra, **SFWMD**
- Seyed Hajimirzai, **SFWMD**
- Irela Bague, **Miami Dade**
- Marina Blanco-Pape, **Miami Dade**
- Alberto Pisani, **Miami Dade**
- Gregory Mount, **Broward**
- Kevin Hart, **SBDD**
- Susan Bodmann, **Broward**
- Jennifer Jurado, **Broward**
- Rajendra Sishodia, **Broward**
- Virginia Walsh, **WASD**
- Omar Abdelrahman, **RER**
- Pamala Sweeney, **RER**
- Katherine Hageman, **RER**
- Laura Eldridge, **(RER)**
- Valentina Caccia, **RER**
- Michael Zygnerski, **Broward Co**
- Karina Cordero, **RER**
- Michael DelCharco, **Taylor Engineering**
- Angela Schedel, **Taylor Engineering**
- Pat Lawson, **Taylor Engineering**
- Joseph Wilder, **Taylor Engineering**
- Stephanie Massey, **Taylor Engineering**
- Lynette Cardoch, **Moffatt & Nichol**
- Peter Sahwell, **Nova Consulting**
- Lara Tomenchok, **Nova Consulting**
- John Loper, **Anclote Consulting**
- David Key, **ESP – Florida**
- Nathan Slaughter, **ESP – Florida**
- Carrie Sigrist -?
- Sarah Hamm, **Moffatt & Nichol**
- Elton Smith, **Taylor Engineering**

Notes:

1. **Meeting Kickoff**
  - Roll Call
2. **Task 2 – Mitigation Assessments**
  - Almost done with M1 analytic solutions
  - Will provide results to Task 3 and Task 4 teams next week
3. **Task 3 – Flood Damage Assessment**
  - Working out visualization and tabular formats
4. **Task 4 – Adaptive Pathways Analysis**
  - Team will present preliminary results of the Adaptive Pathways work
  - See slides for overall summary of presentation
  - Overview of the M projects



## SFWMD C-8 AND C-9 WATERSHEDS FLOOD PROTECTION LEVEL OF SERVICE ADAPTATION PLANNING AND MITIGATION PROJECTS STUDY

- M2A, M2B, and M2C – all have 500 ac ft of distributed storage; All have structural pump improvements (hardening and elevation), each has a forward pump. All those are similar – but M2B and M2C start to add other pieces – such as canal bank elevations being raised, and for M2C the canals are widened to increase conveyance
- Showed pathways with M2A, M2B, M2C, and the M3 scenarios. The M2 scenarios are hypothetical – “raise all elevations above SLR1” and so forth.
- Reviewed the results of Adaptive Pathways
- We did have some subbasins to look at. We don’t expect to do that analysis for all the basin – but wanted to show some of them.
- Looking at Opa Locka Airport. It shows no flooding damages -because the buildings are dry. But, there is a secondary impact – the flooding would cause the airport to be restricted.
- How should we address? Well, maybe just more discussion. We are making the data available to the communities – they can use it to further probe the issues.
- Greg noted that the airport probably stores fuel underground. And taxi ways may be flooded. They have navigation aids that may be affected, too.
- For the C-8, we looked at four focus areas. The team looked at the flooding impacts for subbasins. We looked at EADs and then ran the adaptive management tool.
- Lynette presented the DAP results.
- Ruben, why are there different scales on the bottom – IPCC, NOAA IH, and NOAA High? Lynette because the projections have different time-lines associated with them.
- Raj Sishodia – what model outputs or metrics were considered to determine how much of SLR can be accommodated under each scenario (M2A, M2B etc)? We discussed the whole process of risk modeling, EAD, and then adaptive planning. Hongying pointed out that the District had done a whole workshop on this.
- Hongying – Senate Bill X we will have to use NOAA Intermediate High or NOAA High. That will be set.
- Susan – this is still on the edge of my understanding. But, now I see that I can use it as a budget planning tool. Lynette – it is helpful to think of the mitigation projects as parts of the project. You start with a smaller pump but allow for bigger pumps to be included.
- Hongying – we’ll have to look at the cost benefit ratios, too.
- Akin – the idea that we have to get the funding and we now can know when it needs to be done. If we look at C-8 SSPUR basin results. We see that M2A does not even help us past 2030. M2C takes us out to 2065 (or 2042 or 2038 – depending on which curve you use). That can alter the choice of the projects we would like to pursue. For M2A – we could not even get the pump planned, permitted, and installed before the usefulness is past. So, we know we’d go with the M2B project, at least.
- Hongying – what year is zero? We don’t remember.
- Hongying – if we are doing planning based on NOAA curves, does it change the sequence of projects? No, it just changes the timeline.
- Lynette – anything/any feedback stakeholders want to discuss? Akin – in fact, we would really like for you all to take Lynette up on that! We want you to be comfortable with the analysis. So please feel free to reach out to us.
- Akin – please take us up on it! We want you to understand it all.

### 5. Additional action Items from Previous Meeting

