



UNRBA
Modeling and
Regulatory Support
Path Forward Committee
August 2017



August 23, 2017

The image features a vertical line that divides the space. To the left of the line is a teal-colored shape that is a square at the top and tapers to a point at the bottom. To the right of the line is a brown-colored shape that is a rectangle at the top and tapers to a point at the bottom, mirroring the teal shape. The text "Modeling QAPP" is centered within the brown shape.

Modeling QAPP



Modeling QAPP – Status

- > Members of several groups have reviewed the draft QAPP
 - UNRBA MRSW and PFC
 - Representatives from agriculture
 - DWR
 - NCDOT
- > Met with MRSW on June 20th to discuss responses to comments
- > Provided a revised draft to MRSW and PFC on June 24th
- > Provided interim draft to DWR to review revisions on July 11th
- > Received additional comments from DWR on July 28th
- > Will provide a revised draft to the MRSW after comments have been addressed and contractor roles have been updated
- > Will finalize and distribute to DWR and EPA



Planning for Next Contract



Status of Contract Development for MRS Project

- > The UNRBA Board of Directors voted to approve the Brown and Caldwell team for Year 2 of the project
- > Contract period will be Sept 20 to June 30
- > Executive Director distributed draft contract and scope of work for review by the MRSW and PFC
- > Address comments and distribute for Board review prior to the September 20th Board meeting
- > Open discussion at the end of this status update



Year 2 Scope of Work (Draft)

- > Develop the EFDC model grid
- > Begin exploratory analyses for statistical modeling
- > Review the FY2018 Monitoring Program Annual Report and recommendations regarding the need for a 5th year of data
- > Compile and summarize watershed characterization datasets
- > Work with stakeholders including DWR, EPA, and UNC to ensure that data sets and assumptions are appropriate, accurate, and reflect the best available information
- > Develop a data management plan



Preparing for Data Acquisition – July PFC Discussion

- > Land use/land cover data
 - Spatial coverages at higher resolution (e.g., Durham Co and City)
 - Ground truthing information (e.g., agricultural representatives)
 - Corrections/modifications (e.g., NCDOT)
- > Wastewater data
 - Discharge flow rates and concentrations (daily to weekly)
 - Inventories of onsite site disposal systems, failure rates, complaints, etc.
- > Impoundments data
 - Stage/storage relationships
 - Outlet control structure data
 - Water withdrawals



Preparing for Year 2 Kickoff Meeting

- > Likely be after a PFC meeting
- > Project overview
 - Goals, big picture
 - Overall schedule and where we are now
- > WARMF model overview
 - Data needs and formats
 - Interpretation and assumptions
- > Small group session by sector
 - What data is available and how long will it take to compile?
 - Who are the primary contacts?
 - What are the concerns about use of the data?
 - Lessons learned from similar projects?



PFC Discussion of the Contract and Scope of Work