



UNRBA Nutrient
Credit Development
Project
PFC Meeting
November 2014



November 4, 2014

Trapping Analysis Updates



Trapping Analysis Updates

- Draft memorandum is complete
- Topic was removed from November PFC meeting agenda due to priority of other issues
- We will send to Forrest this afternoon
- Discuss at the December PFC meeting

December PFC Meeting



Discussion Topics for December 2nd PFC Meeting

- Update on the monitoring program
- Discuss results of trapping analysis
- Discuss UNRBA objectives of watershed models to consider in the selection process (Task 2.1)
- City of Durham's redevelopment process
- City of Raleigh's reallocation modeling
- **May need to extend this meeting past 11:30 (work through lunch or take a lunch break?)**

Decisions Today



Decisions Today

- Decide on deliverables format
- Finalize list of measures for credit development

Discuss Format for Credit Deliverables



Discussion of the Format for Credit Deliverables

- Current scope of work (signed in February 2014) includes one large report and one review process for 20-25 priority measures for credit development
- Since April 2014 DWR has produced several draft practice standards which then go through several iterations with the NSAB and public review
- There has since been a request by UNRBA to align our deliverables with DWR draft practice standards
- Two options for deliverable format and number of measures



Current Number of Measures in Rankings

- 24 ranked High to Medium
- 3 measures ranked High – High (**1 pending data May 2015**)
- 12 measures ranked Medium – High (**2 pending data May 2015**)
- 9 measures ranked Medium – Medium

- 23 ranked Low priority
 - Practice standard already in development
 - Not applicable to watershed
 - Already widely applied in the watershed
 - Consolidate into another practice
 - Evaluate credits for individual projects



Contracted Option – One Large Report including*

- ~ 3 measures ranked High – High
- ~ 12 measures ranked Medium – High
- ~ 5 to 9 measures ranked Medium – Medium
- 2 to 6 additional measures ranked Medium or Low priority would be assigned to Tetra Tech under various USEPA contracts

**The final set of recommended measures included in the final report may change based on input from PFC meeting*



Amended Option – Practice Standards for Select Measures*

- **Cardno and the Center**
 - ~ 2 measures ranked High – High
 - ~ 8 measures ranked Medium – High
- **Tetra Tech**
 - ~ 2 measures ranked Medium – High
- **Contractor to be determined based on remaining budget**
 - ~ 3 measures ranked High – High or Medium – High with data expected May 2015
 - Some may be assigned to Tetra Tech as needed
 - DWR would coordinate with Tetra Tech and EPA

**The final set of recommended measures included in the final report may change based on input from PFC meeting*



Level of Effort for Practice Standards

- Cardno and the Center estimate approximately 60 hours (ON AVERAGE) to generate each practice standard to allow for
 - Limited additional research where warranted (e.g., buffers)
 - Population of database with nutrient reduction information
 - Statistical analyses/modeling
 - Development of minimum design criteria
 - Additional meetings
 - Drafting practice standard
 - Compiling comments from reviewers (PFC, Hunt group, experts)
 - Revising practice standard for delivery to DWR



Current Recommendation

- 10 measures (Cardno/Center)
 - Bioretention w/ design variants
 - Filter strip w/ design variants
 - Infiltration devices
 - Land or forest protection
 - Remove Illegal Wastewater Connection to Stormwater Systems or Surface Waters
 - Soil Amendment
 - Urban Nutrient Management
 - Livestock Exclusion
 - Riparian buffer - urban / suburban
 - Riparian buffer - rural / ag
- 2 measures (Tetra Tech; both are modeling based)
 - Upland tree planting (i-tree)
 - Conversion to trees or grass (JFSLAT or JL HSPF)
- 3 measures pending data (contractor to be determined)
 - Leaf Litter Recovery
 - Permeable Pavement with Design Variants
 - Bioswales/Swales with Design Variants

Decision Points



Decisions Today

- Decide on deliverables format
- If contracted option is selected
 - Finalize list of measures identified as High – High, Medium – High, or Medium – Medium
- If amended option is selected
 - Finalize list of measures identified as High – High or Medium – High
 - Approve recommendations for contractor assignment approach
 - Discuss content/format of scope revisions and contract amendment
 - Discuss schedule for developing and approving the contract amendment (next BOD meeting is Nov 19th)



Wrap Up – Forrest

- Revised list of measures and rankings to be distributed after the meeting in a final Screening Analysis TM
- Following any “last minute” comments, list will be finalized
- If PFC “approves” modified final deliverables
 - Cardno and Center draft scope revisions and contract amendment
 - PFC authorize modification of scope for presentation to Board on November 19th
 - Execute contract amendment on November 19th