

WESTERN EVERGLADES RESTORATION PROJECT

PROJECT DELIVERY TEAM (PDT)
MEETING

March 21, 2017



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U.S. ARMY



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Update from WERP Project Management





WERP Project Management



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Update on WERP scope, schedule, & budget

- **Schedule:** Still working to identify the TSP by July 2018.* Baseline Modeling is scheduled to start in August. March 30th is the “Pencils Down” date for revisions to alternatives and performance measures.
- **LiDAR Contract Status:** The contract was awarded on February 28th. The interim terrain for the modelers is due by June 1, 2017. Contract closeout by September 22, 2017.
- ***3x3x3 Compliance Update:** SAJ commander is scheduled to endorse the waiver package to no later than 30 MAR so it may be presented to SAD and headquarters for consideration.

Update from WERP Engineering / Modeling Sub-Team



Engineering/Modeling Sub-team

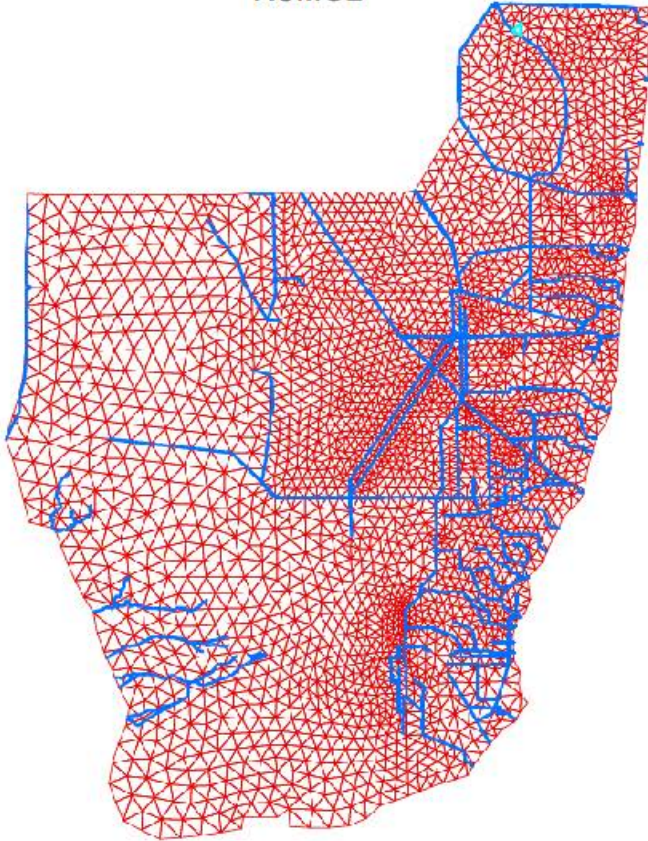
Progress:

- Compiled as-built drawings and specs for selected project features: canals, levees, spillways, pumps, roads, culverts from DOT, SFWMD, USACE, etc.
- Developed preliminary unit costs for some project features (currently under validation process)
- Model mesh refinement:
 - Number of computational cells: RSMGL ~5800 cells; RSMGL-WERP ~6700
 - Execution time: RSMGL ~20 hrs.; RSMGL-WERP ~24 hrs.
 - Further increases in execution times expected when simulating alternatives
- Added road, canal and structure detail along Tamiami Trail, currently undergoing incremental testing

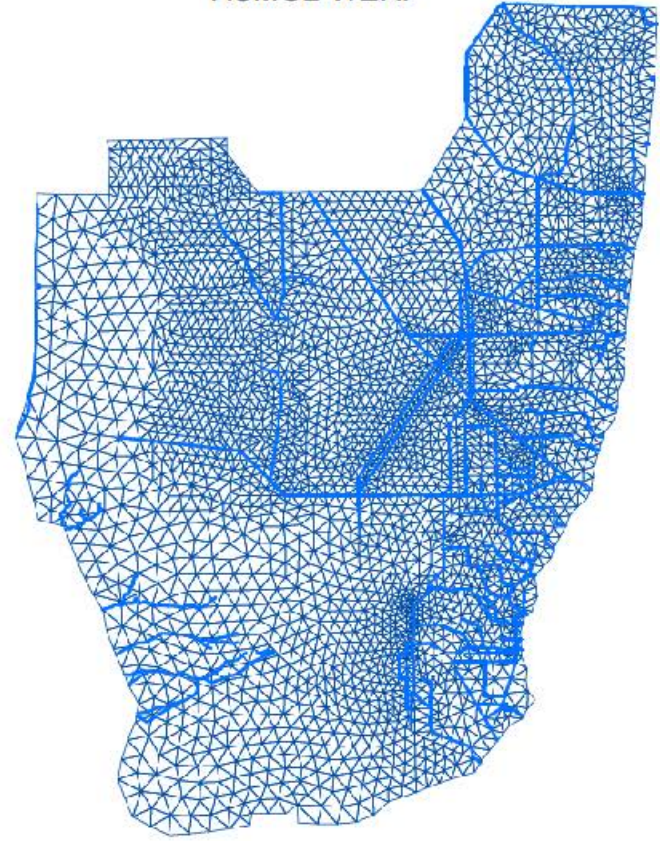


Engineering/Modeling Sub-team

RSMGL



RSMGL-WERP



Engineering/Modeling Sub-team

What's Next?

- Planning for ground surveys in specific areas within project study area, e.g. Big Cypress Sanctuary Community, 11-mile Rd, Loop Rd, etc.
- Model (RSMBGL-WERP) development in the STOF area (West Feeder & North Feeder) and C139 Annex basins
- Boundary condition definition, e.g. Okaloacoochee Slough
- Updating and testing performance measure scripts from RECOVER and CEPP
- Continued coordination with PLAN, ECO and WQ sub-teams as to meeting their needs for alternatives evaluation, e.g., alternatives definition, performance measure creation, modeling output requirements, etc.
- Preparation for modeling presentation during April 25 workshop (preliminary, selected areas in study area to demonstrate new model mesh and PMs)
- Update of base run modeling assumptions tables (for consistency with LOWP)





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Update from WERP Water Quality Sub-team

Water Quality Sub-team

Progress:

- Water quality performance measure refinements
 - Score proportional to model “areas of impact”
- FDEP communicated numeric interpretations of existing phosphorus and nitrogen requirements for State waters.
 - Without WERP → L-28 Interceptor Canal
 - With WERP → Big Cypress National Preserve Interior



Water Quality Sub-team

What's Next?

- Numerical interpretation of requirements for phosphorus and nitrogen downstream of USSO structure in L-28 Canal
- Documenting the Future Without project condition including how water quality requirements would be met
- Continue to consider water quality requirements other than phosphorus and nitrogen, where applicable
- Locate storage and treatment facilities, as needed
- Address limitations on water delivered to BCSIR Native Areas





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Update from WERP Plan Formulation Sub-team

Plan Formulation Sub-team

Progress:

- Adding the Yellow Book Alternative to our “focused array” of alternatives.
- Documented the rationale for exploring additional water volumes from Lake O.
- Incorporating suggestions from the Seminole Tribe of Florida into focused array.
- Adjusting the alternative plans to make more realistic.
Started with concept → Get to real! 😊
- Updated on current ASR technology; pros and cons.

What's Next? Continue to → Get to real!

- Tentative: Task Force-hosted workshop April 25 in Clewiston to ground-truth Existing Condition model outputs.
- Can water be routed as requested by STOF?
- Do the alternative plans have sufficient WQ treatment? Are the treatment options realistic (e.g., sizes, locations)? Work in coordination with WQ subteam.
- Continue adjustments to alternatives to make the alternative plans realistic and viable.

Continued...

Plan Formulation Sub-team

What's Next? Continue to → Get to real!

- Initial model runs of the planning alternatives: Will take place once new LiDAR is incorporated into the H&H model.
- Performance of the alternatives, and components of the alternatives, will be evaluated in the initial outputs.
 - Are constraints violated?
 - Level of performance per the performance measures?
 - Exercise screening, in addition to performance measures.
- Use results to propose hybrid alternative(s) for second round of modeling.
 - This means: It is likely that our TSP will not look exactly like any one of the current alternatives.
 - The TSP is likely to be a hybrid of the best performing, cost-effective aspects of the alternatives.
- Once we have a TSP, we will still refine further after reviews, to “Recommended Plan”.

What if we have remaining uncertainties in planning?

- We address many uncertainties during planning. Some are also appropriate to address during Project Engineering and Design (PED). Also some may be addressed in the monitoring and adaptive management (AM) program. In some cases, the monitoring and AM can inform final design decisions before construction of a feature. In other cases, it may inform adjustments (e.g. operations) after construction.



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Update from WERP ECO Sub-Team

Eco Sub-team

Progress:

- Working DRAFT performance measures documentation sheets (7 of 9)

Soil Oxidation	Ecologic Connectivity	Water Quality
Sheet Flow	Fire Risk	
Inundation Duration	*Hydrologic Regimes of Major Plant Communities	
Slough Vegetation	*Resilience	

- Identified locations within the regional hydrologic model where performance measures will be applied (i.e. indicator regions and transects) and project zones to facilitate evaluation of project benefits.

What's Next?:

- April – Conduct Review RECOVER/Modelers
- May – Complete Revised Performance Measure Documentation Sheets
- June– Submit Revisions to Modelers
- July – Draft Planning Model Documentation



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Public Comment



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Next Steps & Wrap Up

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