

LOXAHATCHEE RIVER WATERSHED RESTORATION PROJECT

Project Delivery Team Meeting December 13, 2017

Project Objectives, Performance Measures, and
Process to Identify a TSP

Dr. Brad Foster

Federally designated as a National Wild and Scenic River, the Loxahatchee River and its watershed are homes to 33 federally threatened and endangered species, 20 federally protected migratory bird species, and 30 additional State's species of concern

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US Army Corps
of Engineers

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One of the Last Old Growth Cypress
Floodplains in the SE Florida

Last Large Freshwater Wetland
Corridor in Project Area

Vulnerable estuarine habitats



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Objectives & Performance Measures



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Objective (Abbreviated)	PM 1 - Salinity	PM 4 - Watershed Hydrology	PM 9 - Connectivity
1. Restore wet and dry season flows to Northwest Fork of Loxahatchee River.	y	n/a	n/a
2. Restore and/or maintain estuarine communities (oysters, fish, seagrass).	y	n/a	n/a
3. Increase natural area extent of wetlands.	y	y	n/a
4. Restore connections between natural areas.	n/a	n/a	y
5. Restore native plant and animal species abundance and diversity.	y	y	n/a

Overview

- Problem Identification
- Linking PM & Objectives
 - PM 1 – Flows, floodplain inundation, and salinity
 - PM 4 – Watershed vegetation community hydrology
 - PM 9 – Connectivity

Ecosystem Focus Area	PM 1	PM 4	PM 9
Watershed Wetlands - Freshwater Flora and Fauna.	n/a	y	y
Cypress Swamp-River Floodplain - Freshwater Flora and Fauna.	y	n/a	y
River with Vallisneria Americana and Fish Larvae.	y	n/a	n/a
Estuary – Fish, Oysters, Seagrass.	y	n/a	n/a





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The “Pieces of the Puzzle” and Process Toward TSP Selection

Dr Brad Foster

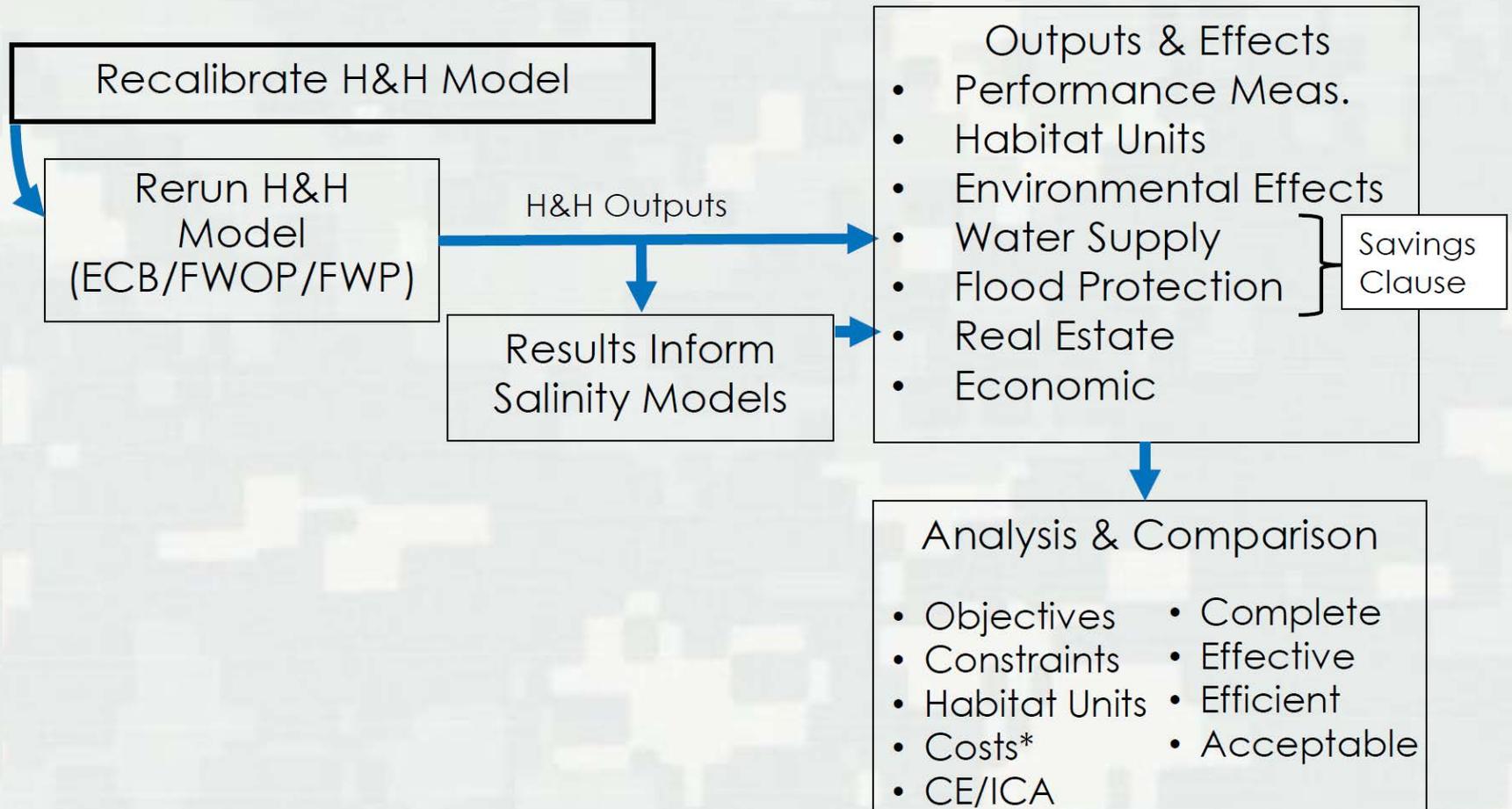




Steps to Tentatively Selected Plan



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*Cost Estimates (Construction, O&M, Real Estate, Monitoring, Adaptive Mgmt.) almost complete at this time



Who Does What?



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- Much of the quantification of Outputs and Effects will be done by subteams
- Also see the read-ahead document with more details for each subteam.
- *Note: In the table, “p” means “primary” and “x” means involved.*

Topics for LRWRP Milestone 2: TSP	Plan Formulation	Ecological	Modeling	Engineering	Real Estate
Update Risk register	p	x	x	x	x
Update Decision log	p	n/a	n/a	n/a	n/a
Update Report Summary and sections of PIR/EIS	p	x	x	x	x
Possible IPRs with vertical team	p	n/a	n/a	n/a	n/a
Update Decision Management Plan	p	x		x	x
H&H modeling of baselines and alts	n/a	n/a	p	n/a	n/a
Estimate performance measure values of alts	n/a	p	x	n/a	n/a
Calculate habitat units	x	p	n/a	n/a	n/a
Effects to natural and cultural resources	n/a	p	n/a	n/a	n/a
Balance inland, floodplain, & estuary benefits	p	x	n/a	n/a	n/a
Recreation analysis	p	n/a	n/a	n/a	n/a
Monitoring and adaptive management plan	x	p	n/a	n/a	n/a
Sea level change and climate change	n/a	p	x	n/a	n/a
Savings clause & project assurances check of alts	n/a	n/a	p	n/a	n/a
Additional design of features and alts	n/a	n/a	x	p	x
Refined cost estimates of features and alts	n/a	n/a	n/a	p	n/a
Refined OMRR&R cost of features and alts	n/a	n/a	n/a	p	n/a
Refined Real Estate requirements & costs of alts	x	n/a	n/a	n/a	p
Cost effectiveness and incremental cost analysis	p	x	n/a	n/a	n/a
4 P&G criteria (complete, effective, efficient, acceptable)	p	x	n/a	x	n/a
4 P&G accounts (NED, EQ, RED, OSE)	p	x	n/a	n/a	n/a
DQC of TSP selection		All disciplines involved			
TRB of TSP selection		All disciplines involved			
ATR of TSP selection	p	n/a	n/a	n/a	n/a
Prepare all chapters and appendices of the draft Integrated Project Implementation Report and Environmental Impact Statement		All sub-teams involved			
DQC of TSP draft PIR/EIS		All disciplines involved			
TRB of TSP draft PIR/EIS		All disciplines involved			



3 Month Near-Term Schedule



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- 13 Dec 2017 – PDT meeting, introduce modeling output
- 24 Jan 2018 – results for all alternatives from the LECsR
- 23 Feb 2018 – results from the salinity model
- 09 Mar 2018 – findings from the Evaluation Teams due to USACE and SFWMD
- Subteam and PDT meetings as needed in March and April 2017



Study Process



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