

# Progress Report February 16, 2011 SW IL Levee System By Jon Omvig



## Major Areas

- Program Management
- Field Activities
- Preliminary Design
- Schedule
- Budget
- Look ahead



- Health and Safety
  - No reportable incidents to date.
- Weekly calls with the USACE (and periodic meetings) to coordinate and share information
  - Disciplines
  - Permitting
  - Schedules
  - 100 year solutions coordinated with USACE 500 year
  - Design submittal process
- Work Orders
  - Mod time on two existing
  - Begin developing scope and cost for WO #4

	Wood River	MESD	PdP/FL
SPT (LF)	2320	4565	2925
CPT (LF)	9280	7650	6300
SONIC (LF)	1500	2000 (SPT)	N/A
% Complete (# of borings)	90% (144) (cut off walls)	93% (256) (berms, deep cut off walls)	100% (155)
Geophysical	Complete	Complete	Complete
ROE	√	One property	√

## Preliminary Design and Evaluation Activities



	WR	MESD	PdP/FL
H&H (freeboard)	√	√	√
Geotechnical (including field)	√	√	√
Under seepage	√	√	√
Through seepage	√	√	√
Stability	√	√	√
Civil	√	√	√
Cultural Resources	●	●	■
Wetlands	●	●	■
Environmental – Haz Waste	√	√	√
Relief Wells	■	■	■
Evaluation Report	√	√	√

- Started (0 - 20%)
- In process (20 - 80%)
- √ Nearly complete (80%+)

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## Preliminary Design and Evaluation Activities – All Levees



- Water Resources - H&H analysis is complete for all systems.
- Geotechnical Engineering - Under-seepage analysis an issue only in a few challenging areas (alternatives are being considered). Through seepage and stability analysis largely complete.
- Submitted permits to clean and test relief wells
- Civil Engineering Design corrections have been developed and drawings have been distributed internally for review. Continue developing plans. Initial boundary surveys substantially complete in WR.
- System-wide GIS shows interior flooding, potential cultural sites, wetland areas, boring and relief well locations
- Developed a combined list of 'deficiencies' that need to be addressed as part of the civil design or by O&M.
- Cultural strategy developed. Coordinated with USACE
- Wetlands impacts better understood. Initial permit discussions and mitigation options explored.

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## Schedule



- Working to deliver preliminary design in March for all levees.
- Select activities originally scheduled for completion March 1 will be extended.
- Additional activities added to WO3.
- Need to prepare for review meetings during March



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## Budget



- Budget status
  - Program Management \$252,000 spent, 17% of budget
  - Preliminary Design \$1,436,000 spent, 45% of budget
  - Preliminary Construction \$2,211,000 spent, 39% of budget
- Wood River – No issues have been identified that would cause an overrun.
- MESD – Currently expected to be complete within or under budget. However, the cost for treating potentially contaminated water or disposal of environmentally contaminated soils is unknown. Initial berm volumes and number of relief wells required is somewhat higher than originally planned; it appears one deep cutoff wall can be eliminated
- PdP/FL – Currently expected to be complete within or under budget.

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- Cultural resources – strategy, meet with SHPO Feb 15th
- Wetlands permits, draft letter to USF&WS
- Coordination with the Corps – maximize efforts, need to have meeting to coordinate NEPA and general permits
- Chain of Rocks and Mel Price - schedule

We have developed solutions, and will make slight modifications as we move to completion of preliminary design

Wood River

- Indian Creek in LWR – RW to berms/RW (engineering driven)
- Wanda Rd – berms/RW no C/O wall. RR Fill in ditches, to eliminate serving as levee for 100yr event

MESD

- DC/W by tank farm ConocoPhillips
- Golf course area, Blue Water ditch – DC/W appears unnecessary (based on Corps PdP Creek borings)
- Elbow complex – berms to walls or RW and berms or toe drain – still evaluating

## Look Ahead – Wood River



- Continue to coordinate with COE on work (improvements) that has been accomplished.
- Identify additional exploration that is needed for Phase II work.
- Continue to refine solutions - seepage berm locations, relief wells, etc.
- Continue relief well evaluation.
- Geotechnical data report for cut off walls.
- Continue development of civil sheets with improvements.
- Preliminary re-evaluation of cost estimate

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## Look Ahead – MESD



- Complete Phase I borings – one property.
- Civil Engineering: Continue to develop drawings/plans with improvements and incorporate utility knowledge.
- Refine seepage berm locations and evaluate hybrid solutions and alternate solutions.
- Evaluate cost/benefit of alternates - such as impacts to wetlands, infrastructure, permitting impacts, etc.
- Finalize cut off walls.
- Continue relief well evaluation.
- Geotechnical data report for cut off walls.
- Preliminary re-evaluation of cost estimate.

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- Collaborate with USACE to stay abreast of potential overlapping/conflicting solutions footprints.
- Civil Engineering: Continue to develop drawings/plans with improvements.
- Cultural Resources: Meet with SHPO.
- Geotechnical Engineering: working closely with civil.
- Continue relief well evaluation.
- Preliminary re-evaluation of cost estimate.
- Identify Phase II exploration.

# QUESTIONS?

