

Linear vs. Circular Berms – San Francisco Bay

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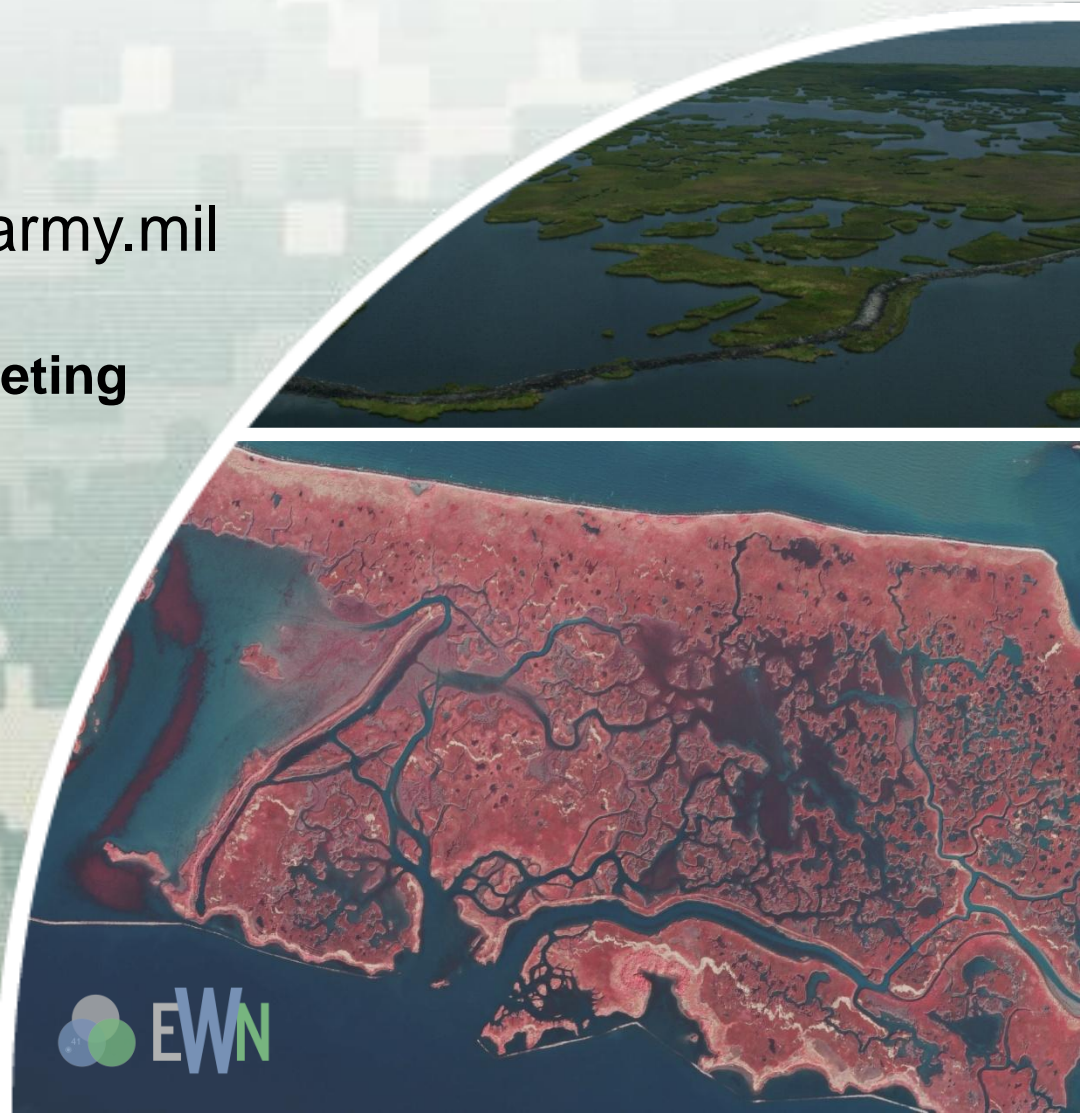
RSM-EWN IPRs and Working Meeting

Vicksburg, MS

22-24 July 2014



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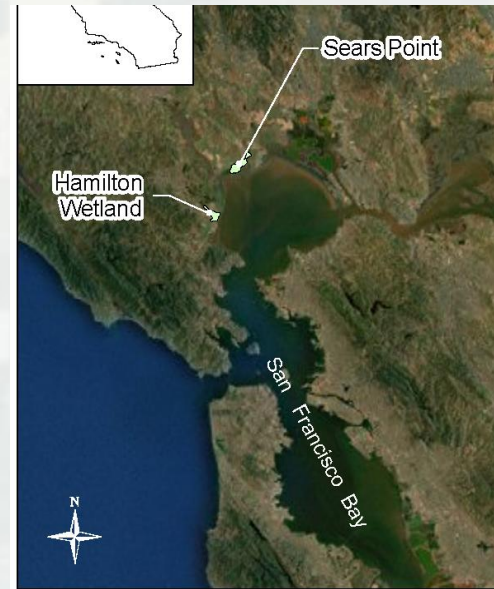
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Problem

- 90% of SF Bay tidal marshes now diked
- Restoration requires sediment to raise subsided elevation, but sufficient quantities are rarely available
- Increasing accretion is essential
- Relative effectiveness of methods for decreasing fetch & increasing accretion unknown

Objective

- Determine relative effectiveness of linear vs. circular berms



Approach

- Monitor two restoration sites being constructed in the north SF Bay: one using linear berms and the other using round mounds
- Model waves on sites to determine decrease in fetch



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Project Funding by Year

- FY13: 165K
- FY14: 135K
- FY15: 150K

Major Project Deliverables

- Interim Product: Document Literature Review by Q4FY14
- Interim Product: Project Design Documentation by Q4FY14 for Hamilton, by 2QFY15 for Sears Pt
- Interim Product: Data Set by Q3FY15
- Tech Report Draft by Q3FY15
- Peer-Reviewed Tech Report by Q4FY15



Benefits and Impacts for USACE Civil Works

- Scientific basis for more cost effective restoration
- Documented beneficial use of dredged material



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- FY14 Products

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