HALF MOON REEF Oyster Habitat Restoration Project

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The Restoration Project

Historic Reef – Matagorda Bay

Estuary Habitat Restoration Program

- Estuary Restoration Act of 2000 (33 USC 2901)
- Project Partnership Agreement (PPA)
- TNC as Non-Federal Sponsor

Project Details

- 12 Acres Recycled Concrete
- Constructed March-April 2014
- \$1.6M Project Cost (65% USACE, 35% TNC)
- USACE Construction
- TNC PED & Post-Construction OMRR&R
- Results: Live Oysters > Market Size (3")





Perpetuity Reqs Not Appropriate

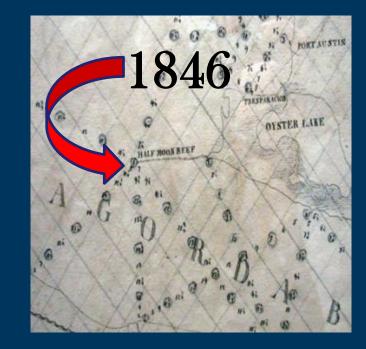
- Success dependent on natural processes
- Structure becomes a natural resource
- ERA does <u>not</u> require perpetuity
- Other federal programs have defined term

OMRR&R – Hands Off Approach

- Disturbance can harm
- Need specific parameters to determine when restoration achieved

LERRs – State Submerged Lands

- Federal-state jurisdictional issues
- State may be limited on permanent conveyance
- DNR authority for natural oyster reefs





Natural Infrastructure: Goal of Self-Sustainability

✤ Self-Sustainability Criteria

- Structural: height + stability
- Ecological: recruitment + diversity
- Monitoring determines & informs

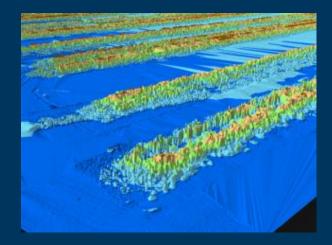
Adaptive Management

- AM + monitoring guides OMRR&R
- Minimal disturbance let nature work
- Once criteria met, little role for OMRR&R
- In some cases, project may not be viable

Support of State Authorities

- TGLO submerged lands lease
- TPWD harvest restrictions







Cost Issues for NGO as Non-Federal Sponsor

Dependent on Private Funds

- No public finance (ex. taxes, bonds)
- Restrictions on federal contributions
- No mitigation credits

Limits on NFS Contribution

- Pre-PPA costs
- OMRR&R not included
- Donated materials

Cost Uncertainties

- Cover excess total project costs
- Limits on changes in price levels
- OMRR&R open ended, provided after construction
- Future LERRs





NGO as Non-Federal Sponsor: Limited Powers

No Condemnation Authority

- LERRs acquisition
- Right of USACE entry

No Regulatory Powers

- Prevention of obstructions & encroachments
- Enforcement of natural resource regs

No Gov. Immunity

- Broad hold harmless
- NFS as CERCLA operator





Getting Beyond "Aw Shucks"

- Mutual support & flexibility at project level critical (ex. PCT)
- Determine expectations in advance (ex. PMP, OMRR&R)
- Effectively engage exec. management & stakeholders
- Long term improve and refine for natural infrastructure projects (ex. WRDA changes)

