

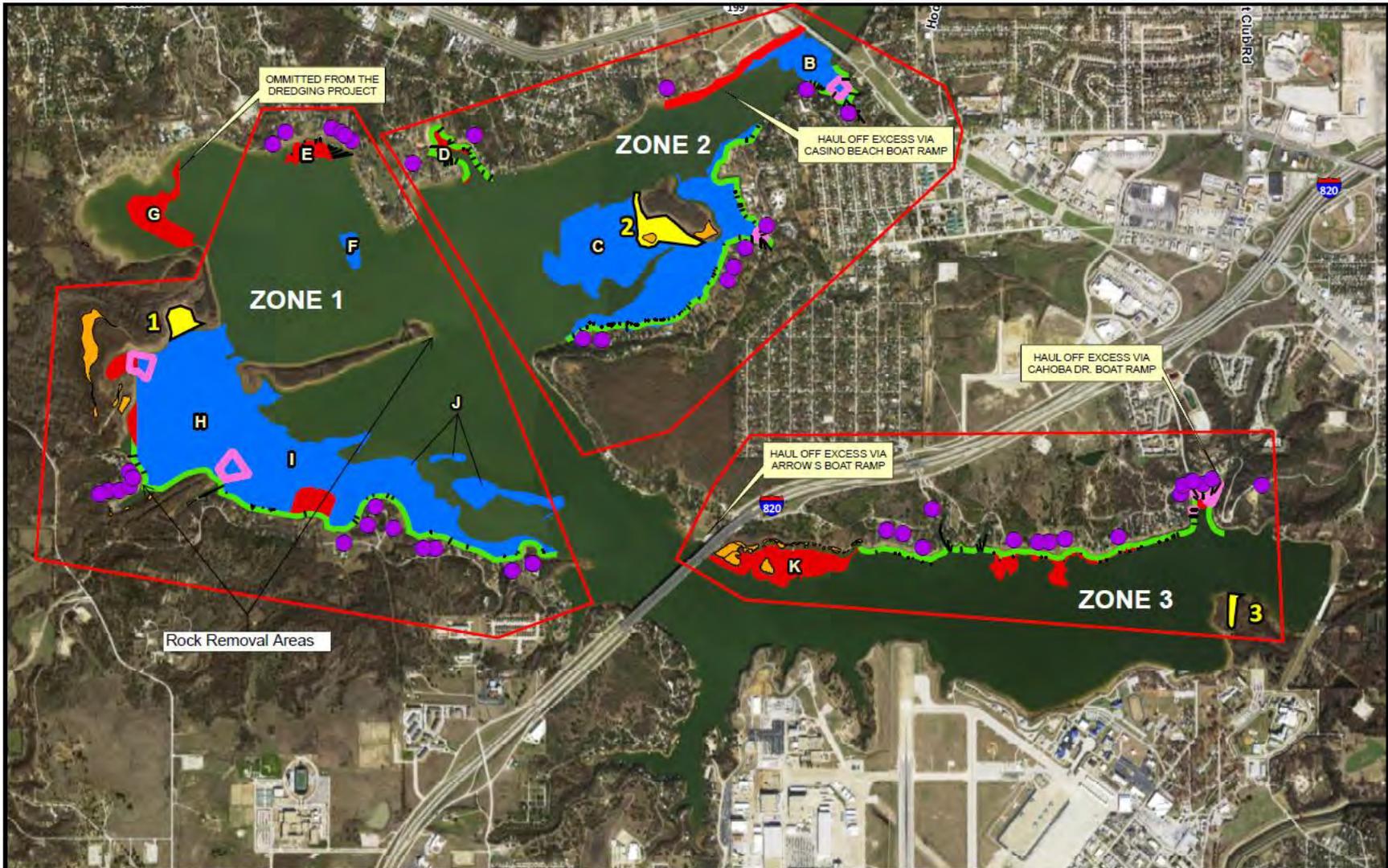


Lake Worth Dredging

Lake Worth Regional Coordination Committee
September 20, 2018

Presented by:

Water Department



Base Map: 2008 USGS Topographic 7.5 M Quadrangle: Lake Worth

Boat Dock Access Channel	Phase I	100' Boat Dredging Zone	Proposed Phase III Maintenance Dredging Areas	Proposed Phase III Beneficial Reuse of Dredged Material Sites
Wetlands	Phase II	Address Locations of Proposed Phase III Boat Dock Dredging	Proposed Phase III Rock Removal Areas	

1 inch = 1,800 feet
 0 900 1,800 3,600 Feet

FIGURE	
1	
FN/JOB NO.	FTW00101
FILE	FTW00101_0001_0001_0001.dwg
DATE	08/12/2011
SCALE	1" = 1,800'
DESIGNED	AMR
DRAFTED	AMR

City of Fort Worth Water Department
 Lake Worth Phase III Dredging Project



FREESE & NICHOLS
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Permitting – Scope of Work

- Regulated under Section 404 of Clean Water Act
- Administered by US Army Corps of Engineers (USACE)
- Previously issued USACE permit has expired
- Permitting would include the following components
 - Section 404 Permitting
 - Maintenance dredging around private docks adjacent to previously authorized dredging areas where owners expressed interest in cost participating.
 - Cleaning out of previously dredged areas that filled during 2015 flood
 - Seeking a Letter of Permission II, Excavation Activities
 - Sediment Characterization
 - Determine concentrations of potential chemicals of concern
 - Will dictate sediment disposal options



Engineering Scope of Work

- Evaluate bidding and dredging methods
- Evaluate potential material disposal locations
- Perform survey of maintenance dredging locations
- Perform survey of rock dredging locations
- Determine boat dock dredging locations, perform surveys
- Coordinate development of construction plans with environmental permitting requirements.
- Prepare bidding plans and specifications
- Bidding and construction phase services



Boat Dock Dredging

- Boat dock dredging cost estimate ranges from \$10,000 to \$25,000 depending on the site.
- Sites would need to be identified as part of the permitting, surveyed, and included in the construction plans.
- A contract between the City and homeowner would need to be executed prior to permitting, survey and design.
 - This would likely include payment or payments of the estimated boat dock dredging costs as part of the contract requirements.
- Potential benefit to property owners by including boat dock dredging into permitting, design, and large scale dredging contract.

Boat Dock Dredging

- Hydraulic Dredging Alternative
- Simplified Permitting Process – usually by Contractor
 - USACE 404 Nationwide 16 Permit (Application and Questionnaire)
 - TCEQ Clean Water Permit - letter
- Cost could be approximately \$8,000 to \$10,000 per dock
- If contiguous boat dock owners work together, then price drops.





Cost and Timelines

- Cost Estimates
 - Permitting and Engineering - \$400,000
 - Maintenance Dredging - \$4M to \$5M
 - Boat Dock Dredging - \$10,000 to \$25,000 per location
 - **Achieve “Economies of Scale” by incorporating with the maintenance dredging contract.**
- Timelines
 - Environmental Permitting – Six months from NTP
 - Design and Contract Documents – Six months
 - Construction – Nine Months from NTP
- Next Steps
 - Work with legal to develop contracting methodology and documents
 - Evaluate interest from public in boat dock dredging
 - If interest is there, move forward with permitting and engineering
 - Program funding for dredging project

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QUESTIONS

