Tonight’s Meeting Agenda

A. Introductions and overview
B. Community Meeting 1 summary
C. Recap of current conditions
D. Improvement Concepts
E. Discussion
Project Team

City of Alexandria

- **Tony Gammon**, Project Manager
  *Department of Project Implementation*
- **Jack Browand**
  *Department of Recreation, Parks and Cultural Activities*

Consultant Design Team

- **Kevin Van Hise**, Project Manager
  *Kimley-Horn*
Project Location

Windmill Hill Park Area

Potomac River
Bulkhead Improvement Project Area

Windmill Hill Park

Gibbon Street

S. Lee Street

S. Union Street

Potomac River
Why We Are Here

• Changes in Best Practices
• Evolving permitting environment
• **Concept Plans**
  • Modernized 2003 Plan
  • Hybrid/Living Shoreline Plan
  • Living Shoreline Plan
Project Phases & Work Scopes

WE ARE HERE NOW

- Concept Development
- Public Engagement
- 30% Design

Phase I (2014/15)

Phase II (2015/16)
- Construction Plans, Specifications, and Estimates

Phase III (2016/17)
- Construction
Community Meeting 1

SUMMARY
Overview of Feedback

• Safety important
• Move the project forward now
• Create a safe, stable, and manageable shoreline
• Respond to the changed environment of the basin
• Provide access along and to the water
• Be mindful of cost
CURRENT CONDITIONS
SHORELINE TREATMENT ELEMENTS & PERMITTING CONSIDERATIONS
Sub Aquatic Vegetation (SAV)
Permitting Considerations

• Two principle agencies in permitting discussions – NOAA & Army Corps of Engineers
• Both interested in habitat creation
  • NOAA more interested in fishery – support for SAV
  • ACOE focus on living shoreline
• Both agencies significantly concerned with structural bulkhead
• Neither agency supports filling the basin
Historic Shoreline

Approximate Locations
1763 Shoreline
1860’s Shoreline
Coastal Report

• Considered tides & wind
  • Both contribute to movement of debris into corners of existing basin
• 2003 design did not adequately address need for basin flushing
• Water access needs to be stable
Windmill Hill Bulkhead Improvements Project

CONCEPTS
Proposed Budget

- $5.5 million for shoreline improvements (design & construction)
- $500,000 for other planned park elements
Design Options - Examples

Structural Bulkhead

Living Shoreline

Rip-Rap/Armored Shoreline

Bulkhead/Living Shoreline Hybrid
Design Options - Sections

- **Bulkhead**
- **Living Shoreline**
- **Rip-Rap / Armored**
- **Bulkhead/Living Shoreline Hybrid**
Shoreline Improvement Concepts

• Concept 1: Modernized 2003 Plan
• Concept 2: Hybrid/Living Shoreline Plan
• Concept 3: Living Shoreline Plan
History: Approved 2003 Plan

City Council Approved Concept Plan (2003)

- Recommended combination approach
- Accommodation for canoes/kayaks and dogs
- Included overlook accommodation
Concept 1
Modernized 2003 Plan
Concept 1
Modernized 2003 Plan

- $4.9 million
- Longer permitting timeline
- Greater construction complexity
- Most need for mitigation
Concept 1
Modernized 2003 Plan
Concept 2
Hybrid/Living Shoreline
Concept 2
Hybrid/Living Shoreline

- $5.9 million
- Moderate permitting timeline
- Complex construction
- Some need for mitigation
Concept 2
Hybrid/Living Shoreline
Concept 3
Living Shoreline
Concept 3
Living Shoreline

- $3.8 million
- Shortest permitting timeline
- Least complex construction
- Least need for mitigation
Concept 3
Living Shoreline
Audience Participation Opportunity During Presentation: Instructions

- Throughout the presentation we will ask for your input. You will use the keypad devices to record your answers
  - Please use the same device throughout
  - We’re here to help, and happy to pause and lend a hand

- If you prefer, we also have a paper questionnaire

- Following the presentation and Q&A, preference exercise on the boards
1. Where do you live? (select one)

A. In Alexandria
B. Outside of Alexandria
2. How long have you lived at your current residence? (select one)

A. Less than a year
B. One to two years
C. Two to five years
D. Five to ten years
E. Ten or more years
3. How close do you live to Windmill Hill Park? (select one)

A. Adjacent to one of the edges of the park
B. A block or two away
C. Several (around 3 to 5) blocks away
D. Outside of the City of Alexandria
4. Did you attend the Windmill Hill Bulkhead Improvement Project, Community Meeting 1 in February?

A. No
B. Yes
Questions 5, 6, and 7. Rate your interest in each of the above plans on a scale of 1 to 5.
5. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Modernized 2003 plan.

A. 1
B. 2
C. 3
D. 4
E. 5
6. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Hybrid/Living Shoreline plan.

A. 1
B. 2
C. 3
D. 4
E. 5
7. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Living Shoreline plan.

Modernized 2003

Hybrid/Living Shoreline

Living Shoreline

A. 1
B. 2
C. 3
D. 4
E. 5
Consultant Recommendation

• Concept 3: Living shoreline
  • Best meets community expressed priorities
  • Lowest capital cost
  • Shortest permitting timeline
  • Least complex construction
Shoreline Design Options

Additional design options based on budget:

• Pier or Peninsula
• Boardwalk
• Boardwalk + Pier
• Expanded Wetland
• Additional Water Access Location
Design Options: Pier
Design Options: Boardwalk
Design Options: Pier and Boardwalk
Design Options: Boardwalk
Your Feedback

Questions 8, 9, and 10. Rate your interest in each of the above features on a scale of 1 to 5.
8. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Pier.

A. 1
B. 2
C. 3
D. 4
E. 5
9. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Boardwalk.

A. 1
B. 2
C. 3
D. 4
E. 5
10. On a scale of 1 to 5 (1=low, 5=high), rate your interest in the Pier and Boardwalk.

A. 1
B. 2
C. 3
D. 4
E. 5
11. Which among the below do you feel the most strongly for? (select one)

A. Pier
B. Boardwalk
C. Pier + Boardwalk
D. None – Don’t Like Any
E. None – Neutral on All
12. Which among the below do you feel least strongly for? (select one)

A. Pier
B. Boardwalk
C. Pier + Boardwalk
D. None – Don’t Like Any
E. None – Neutral on All
What’s Next

- Preferred plan
- Continued community engagement
- Preliminary engineering
Current Project Phase: Schedule

- **Data Collection**
- **Concept Development and Refinement**
- **Preferred Alternative**

- Community Meeting 1 (2/12/2015)
- Community Meeting 2 (4/13/2015)
- Community Meeting 3 (TBD)
- City Council (TBD)
Questions? Contact Us

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DISCUSSION