



REQUEST FOR PROPOSALS

SF12 Chesapeake & Atlantic Coastal Bays Trust Fund

LOCAL IMPLEMENTATION GRANT SUMMARY

The State of Maryland (State) and its Partners are soliciting proposals from local governments and non-governmental organizations to implement the non-point source pollution control projects as identified in the State's 2-Year Milestone (Attached) in priority geographic areas to improve the health of the Chesapeake Bay, Atlantic Coastal Bays and local water quality. Proposals are being accepted for State Fiscal Year 2012 through this Request for Proposal (RFP); total proposals awarded will be subject to funding availability.

WHO: Competitive grant program is open to local governments and non-governmental organizations, including: county and bicounty agencies, municipalities, forest conservancy, district boards, soil conservation districts, academic institutions and nonprofit organizations having a demonstrated ability to implement non-point source pollution control projects.

WHAT: Grants will fund the implementation of the non-point source pollution reduction actions identified in Maryland's current 2-Year Milestone over a period of one to three years.

WHEN: Application Deadline Received by Issuing Officer by 5 pm., May 28th, 2010.

AMOUNT: Expected grant awards of \$1 Million to \$5 Million annually, for up to three years, per proposal.

WHERE: Submit Applications to:

Local Implementation Grant
C/O Jennifer Raulin
Chesapeake & Coastal Program
Maryland Department of Natural Resources
580 Taylor Ave., E-2
Annapolis, MD 21401
(p) 410.260.8745 (f) 410.260.8739
jrauln@dnr.state.md.us

For more information, visit:

http://www.dnr.state.md.us/ccp/funding/trust_fund.asp

Anacostia Watershed -Lower Northwest Branch- Urban Watershed Nutrient and Sediment Reduction

CONTENTS

SECTION 1 PROPOSAL INFORMATION

- 1.1 Summary Statement
- 1.2 Funding Awards
- 1.3 Technical Assistance
- 1.4 Eligibility
- 1.5 Issuing Officer
- 1.6 Application Deadline
- 1.7 Written Questions
- 1.8 Discussions

SECTION 2 PRINCIPLES OF THE LOCAL IMPLEMENTATION GRANT

- 2.1 General Guidelines
- 2.2 Geographic Targeting
- 2.3 Project Elements
- 2.4 Evaluation Criteria

SECTION 3 PROPOSAL DEVELOPMENT

- 3.1 Proposal Preparation
- 3.2 Incurred Costs
- 3.3 Transmittal Letter
- 3.4 Proposal Format

SECTION 4 SELECTION PROCEDURE

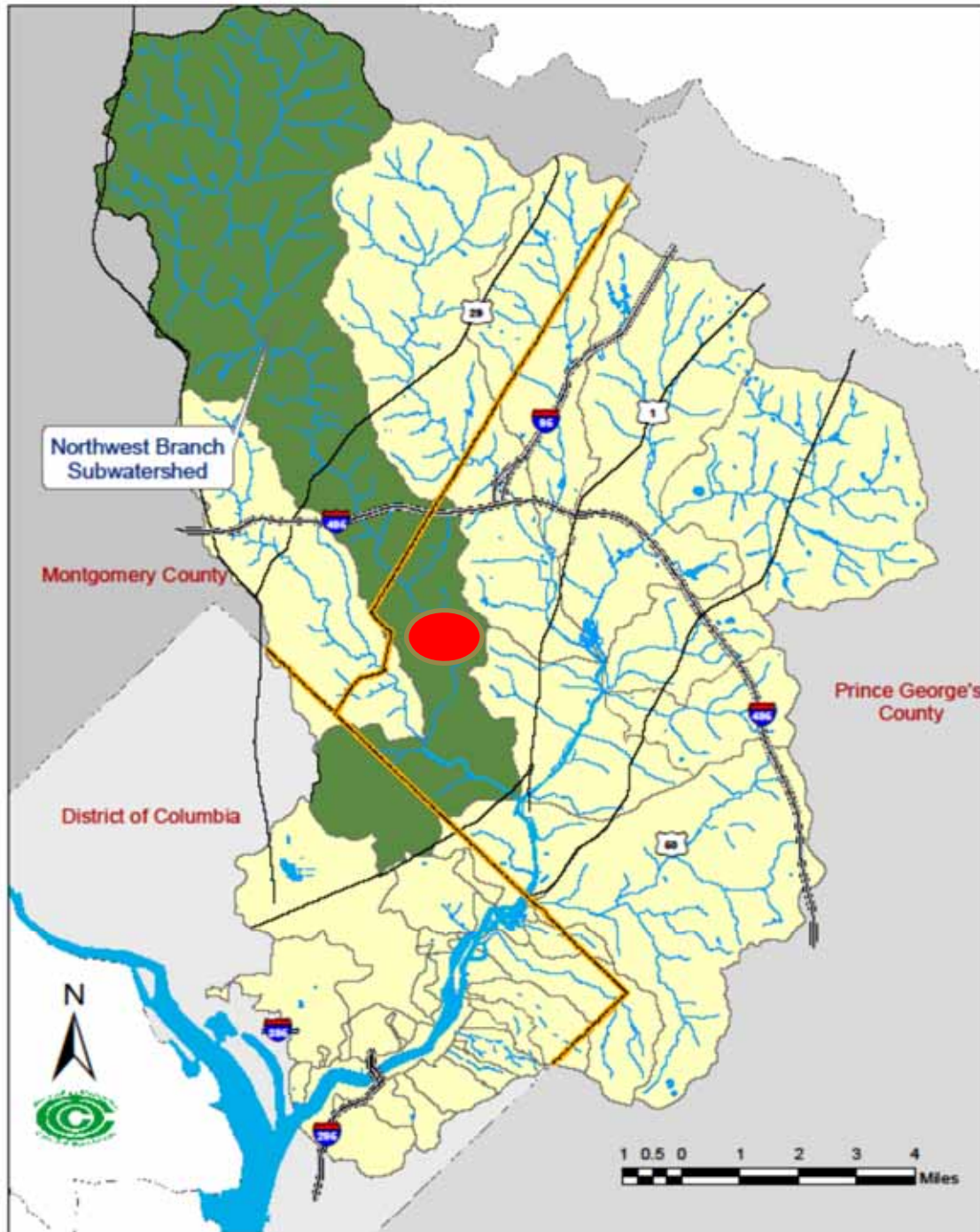
- 4.1 Proposal Review
- 4.2 Selection and Award
- 4.3 Cancellation of the RFP

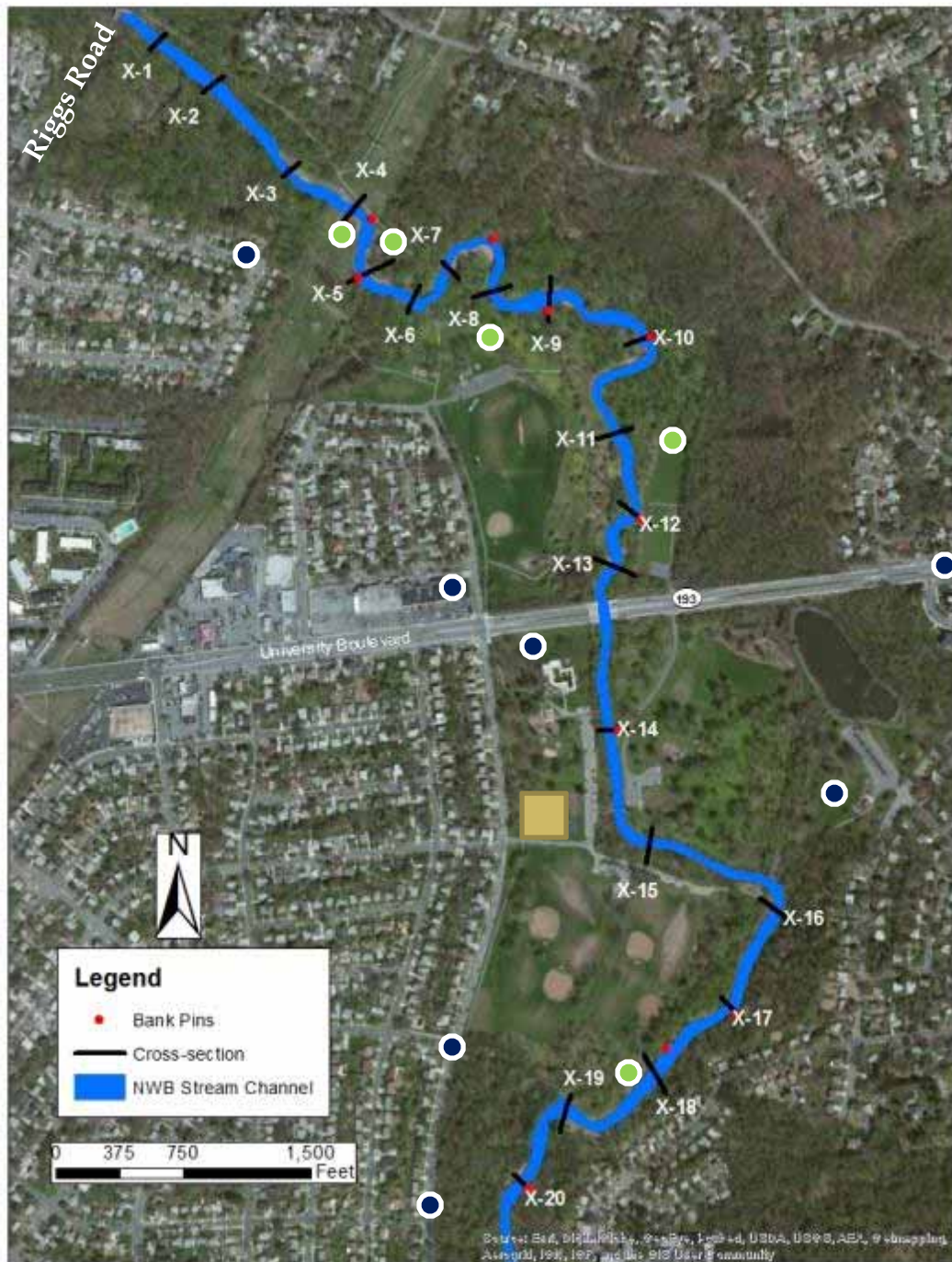
SECTION 5 ATTACHMENTS



DEPARTMENT OF
NATURAL RESOURCES







- ▣ Piedmont to Coastal Plain
- ▣ DA ~ 33 mi²
- ▣ Imp. ~17%
- ▣ ARP Project Cluster Restoration Approach



General Project Objectives:

- ▣ Reduce Streambank Erosion and Streambed Downcutting
- ▣ Reduce Downstream Sediment and Nutrient Loads
- ▣ Enhance Aquatic Habitat
- ▣ Improve Stream/Floodplain Reconnections
- ▣ Create/Restore Wetland Areas
- ▣ Protect Existing Infrastructure (e.g., Pipes, Footbridges, Etc.)
- ▣ Minimize Removal of Large Trees/Overall Disturbance
- ▣ Improve Overall Aesthetics



STREAM BANK EROSION MONITORING

Rapid Stream Assessment Technique (RSAT) Level III - Stream Channel Condition Evaluation

- 1. Evaluate Erosion Conditions
(Stability) for both Left and Right
banks**
- 2. Monumental Cross-sections**
- 3. Bank Pin Erosion Rate Study**
- 4. Soil Texture, Chemistry and Bulk
Density Determination**

RSAT EVALUATION – EROSION CONDITION EVALUATION

- **Bank Stability**
 - Bank sloughing; slumping or failure
 - Exposed roots
 - Number of tree falls
 - Bank Soil Types “By Feel”
 - Left and Right Banks

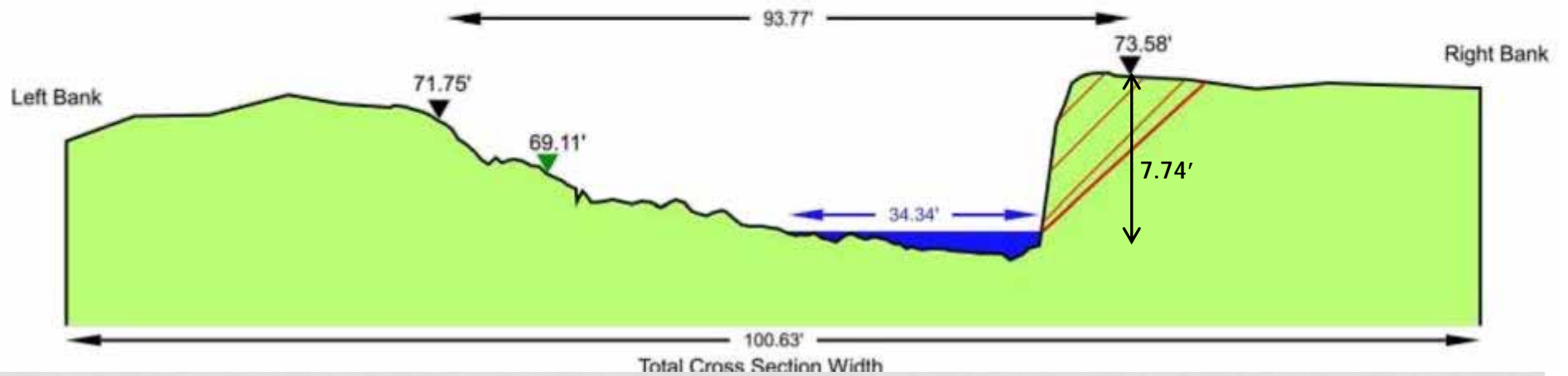
MONUMENTAL CROSS-SECTIONS

Horiz. - 1" = 30'

Vert. - 1" = 10"

Cross Sectional Area - 447.00 sq. ft

X-3



BANK PIN EROSION RATE STUDY



SOIL TEXTURE, CHEMISTRY AND BULK DENSITY DETERMINATION

- Oakfield Model B Soil Probe
- Six Hour Holding/Constraint time (nitrate/nitrogen)
- Modified USDA Bulk Density Test Procedure



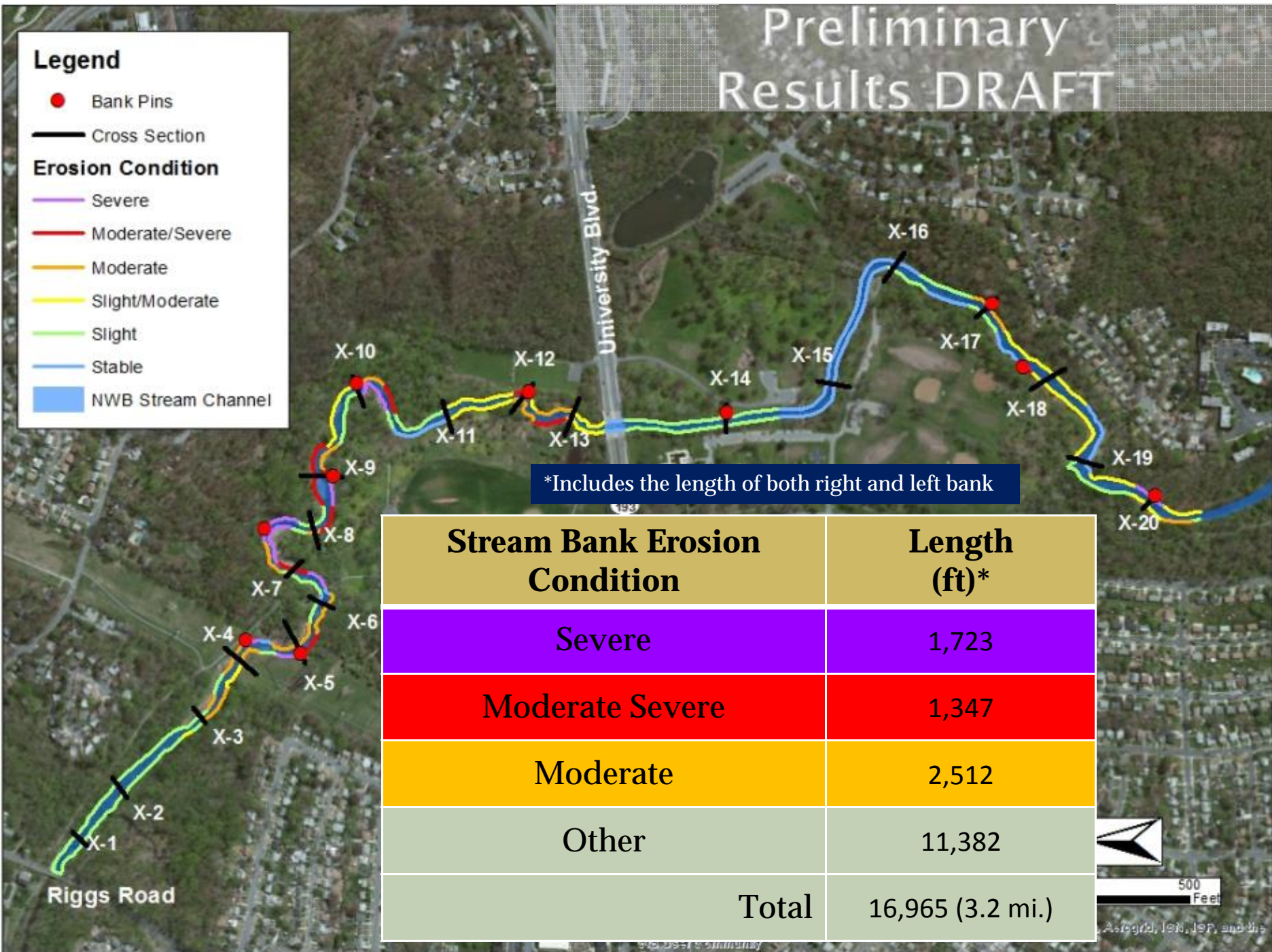
Preliminary Results DRAFT

Legend

- Bank Pins
- Cross Section

Erosion Condition

- Severe
- Moderate/Severe
- Moderate
- Slight/Moderate
- Slight
- Stable
- NWB Stream Channel



*Includes the length of both right and left bank

| Stream Bank Erosion Condition | Length (ft)* |
|-------------------------------|------------------|
| Severe | 1,723 |
| Moderate Severe | 1,347 |
| Moderate | 2,512 |
| Other | 11,382 |
| Total | 16,965 (3.2 mi.) |



Aerial, 10N, 10P, and the

Preliminary Stream Bank Results –Soil Loss– DRAFT

| Erosion Condition | Length* | Bank Height** | Retreat Rate** | | Soil Bulk Density** | Soil Loss |
|---------------------------|---------------|---------------|----------------|---------------------|---------------------|-----------------|
| | | | (ft/year)* | ft ³ /yr | | |
| Severe (N=5) | 1,723 | 6.7 | 1.09 | 12,592.44 | 94.87 | 597.35 |
| Moderate/ Severe (N=2) | 1,347 | 7.1 | 0.46 | 4,377.80 | 93.75 | 205.21 |
| Moderate (N=2) | 2,512 | 7.2 | 0.46 | 8,192.78 | 91.88 | 376.40 |
| Other*** (N=1) | 11,382 | 5.8 | 0.19 | 12,306.65 | 84.70 | 521.16 |
| Total | 16,965 | -- | -- | -- | -- | 1,700.12 |

*Includes the length of both right and left bank

**Average value

*** Includes Slight/Moderate, Slight and Stable bank erosion condition

Preliminary Stream Bank Results –Soil and Nutrient¹ Loss–DRAFT

| Erosion Condition | Length* | Retreat Rate** | Soil Loss | TP Loss | TN Loss |
|---------------------|---------|---------------------|-----------|----------|----------|
| | ft | ft ³ /yr | tons/yr | lbs/yr | lbs/yr |
| Severe | 1,723 | 12,592.44 | 597.35 | 367.97 | 716.82 |
| Moderate/ Severe | 1,347 | 4,377.80 | 205.21 | 126.41 | 246.25 |
| Moderate | 2,512 | 8,192.78 | 376.40 | 231.86 | 451.67 |
| Other*** | 11,382 | 12,306.65 | 521.16 | 321.04 | 625.39 |
| Total | 16,965 | -- | 1,700.12 | 1,047.27 | 2,040.14 |

| ¹ Mean Concentration | mg/kg | lbs/ton |
|---|-------|---------|
| Total P | 308 | 0.616 |
| Total N | 606 | 1.2 |
| <i>PSU Agricultural Analytical Services Lab Results as Mass of constituent per mass of soil</i> | | |

*Includes the length of both right and left bank
 **Average value
 *** Includes Slight/Moderate, Slight and Stable bank erosion condition

Next Steps

- Compute the Sediment and Nutrient loss from Dissolved Fractions (Concentrations in Water)
- Continue Bank Pins Measurement
- Follow-Up Stream Bank Soil Chemistry/Nutrient Characterization
- Reshoot All 20 Stream Cross-Sections
- Complete Spring 2014 'Bug' and Fish IBI-Related Taxonomic Identification Work

Phong Trieu
Metropolitan Washington
Council of Governments
ptrieu@mwkog.org

