

# NORTHERN VIRGINIA STREAM RESTORATION BANK – THE GLADE

## REACHES 1 & 1A, 2, AND 3

### DRB SUMMARY – JANUARY 27, 2009

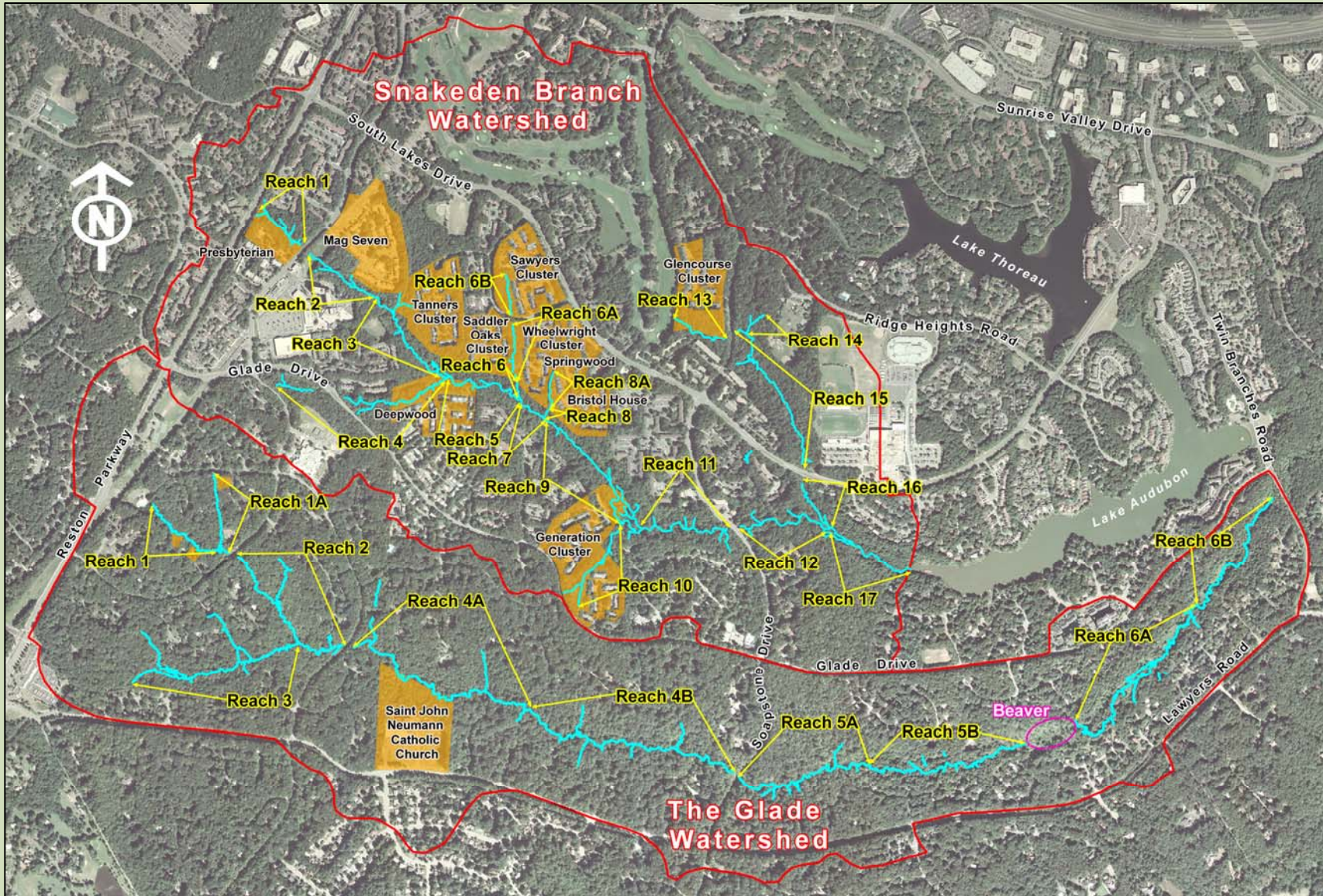
**Presented by Michael S. Rolband**  
**P.E., P.W.S., P.W.D.**

Wetland Studies and Solutions, Inc.  
5300 Wellington Branch Drive · Suite 100 · Gainesville · Virginia 20155  
[www.wetlandstudies.com](http://www.wetlandstudies.com)



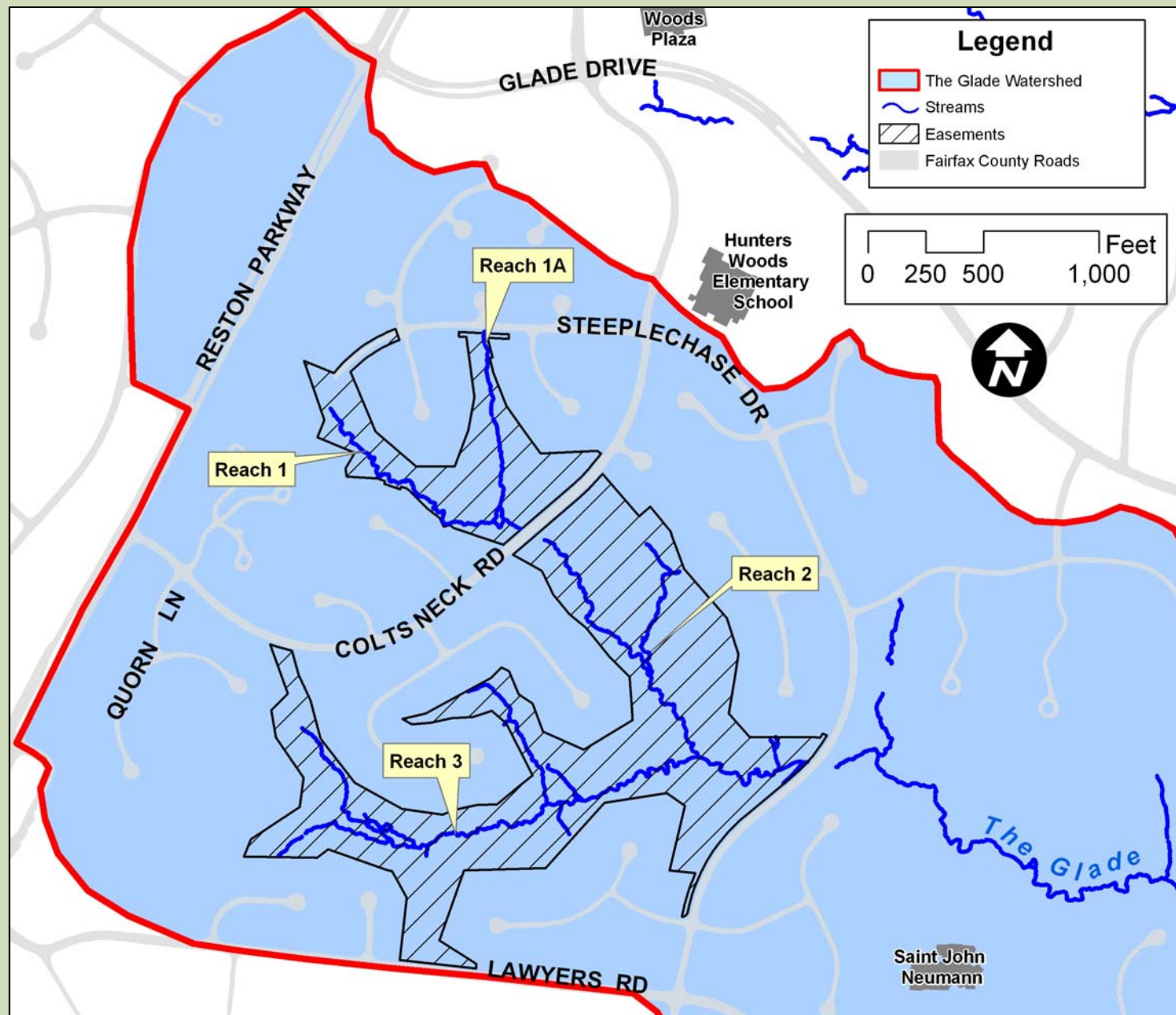


# LOCATION MAP – GLADE WATERSHED





# LOCATION MAP – GLADE REACHES 1 & 1A, 2, AND 3



# DESIGN REFINEMENTS - REACHES 1 & 1A

- ① Wall features to protect trees.
- ② Bridge relocation/adjustment.
- ③ Stockpile area relocation.

*Note : Structures may also be field modified as necessary to reduce impacts to adjacent trees.*



# DESIGN REFINEMENTS - REACH 2

- ① Wall feature to protect trees.
- ② Channel realignment area.
- ③ Eliminated restoration of upper segment of tributary 1.
- ④ Moved construction entrance to avoid “lady slipper” area and reduced stockpile area.
- ⑤ Narrowed width of construction access.

*Note : Structures may also be field modified as necessary to reduce impacts to adjacent trees.*

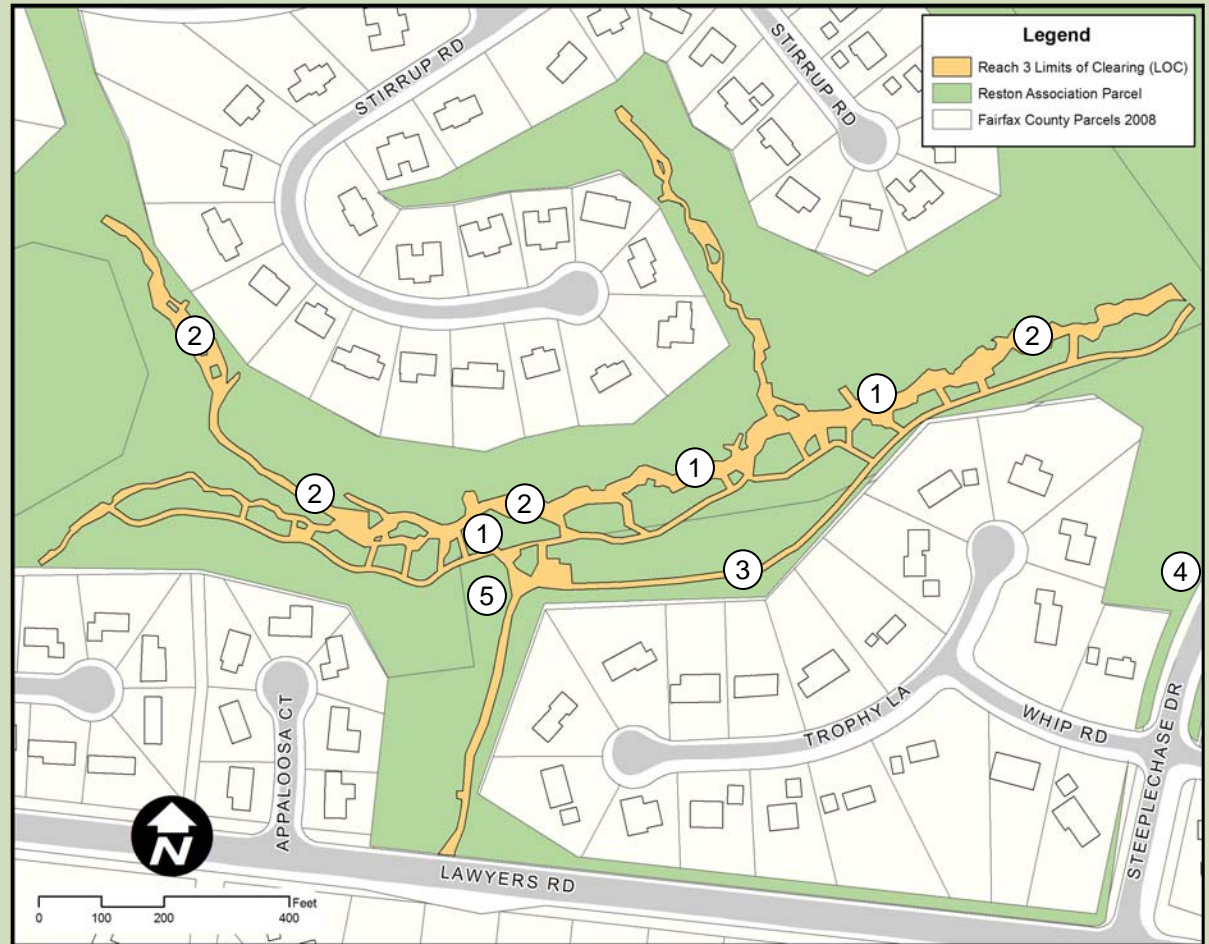




# DESIGN REFINEMENTS - REACH 3

- ① Bridge Realignment.
- ② Channel realignment area.
- ③ Greater use of trails for access.
- ④ Removed 2<sup>nd</sup> construction entrance and stockpile area (saving “firefly area”).
- ⑤ Reduced stockpile/staging area at Lawyers Road construction entrance.

*Note : Structures may also be field modified as necessary to reduce impacts to adjacent trees.*



# PUBLIC OUTREACH

- **Design changes in response to citizen comments and wildlife features**
  - Field changes will still occur to save smaller vegetation
- **Identified LOC and trees to be removed with flagging**
- **Citizen plan review sessions and stream walks**
  - Jan. 10<sup>th</sup> and 17<sup>th</sup>
  - Numerous small walks/talks/meetings
- **Plan set images and updates on [reston.wetlandstudies.com](http://reston.wetlandstudies.com)**
- **Emails to “*Reston Residents Interested in Stream Restoration*”**
- **Plant rescue**
  - Jan. 28-Feb. 8: Residents can transplant trees, shrubs, or herbaceous material within the LOC while contractor installs tree fencing
  - Feb. 5-7: 10 staff/contractors available to help residents dig
  - Staff to transplant larger specimens of American Holly and Mountain Laurel
- **Firewood**
  - Location: Practice Tennis Court off of Colts Neck Road – additional locations TBD
- **Moving forward on future reaches**
  - More community involvement
  - Additional citizen stream walks
  - Construction issues website – Email contact

# EXISTING CONDITIONS – GLADE REACHES 1 & 1A





# EXISTING CONDITIONS – GLADE REACHES 1 & 1A





# EXISTING CONDITIONS – GLADE REACHES 1 & 1A





# EXISTING CONDITIONS – GLADE REACHES 1 & 1A





# EXISTING CONDITIONS – GLADE REACH 2





# EXISTING CONDITIONS – GLADE REACH 2





# EXISTING CONDITIONS – GLADE REACH 2





# EXISTING CONDITIONS – GLADE REACH 3





# EXISTING CONDITIONS – GLADE REACH 3





# EXISTING CONDITIONS – GLADE REACH 3



# CROSS SECTION COMPARISON

## THE GLADE VERSUS SIMILAR SIZE PROJECTS

Stream/Reach	Bankfull Width
<b>The Glade</b>	
The Glade, Reach 3	6' – 11.2'
The Glade, Reach 1A	8.5'
The Glade, Reach 1	10'
The Glade, Reach 2	13' – 18'
<b>Similar Size Projects</b>	
Tributary to Snakeden, Reach 11	8'
Snakeden, Reach 6B	9'
Snakeden, Reach 6A	10'
Chesterbrook (Haycock-Longfellow Park)	11'
Snakeden, Reach 1	14'
Snakeden, Reach 2	17.5'



# SNAKEDEN BRANCH – TRIBUTARY TO REACH 11

(W = 8 FT, D = 1.1 FT)



Similar to The Glade, Reach 1A



# SNAKEDEN BRANCH – REACH 6B

(W = 9 FT, D = 1.2 FT)



Post Construction

Similar to The Glade, Reach 1A



# SNAKEDEN BRANCH – REACH 6A

(W = 10 FT, D = 1.5 FT)



Similar to The Glade, Reach 1



# CHESTERBROOK RESTORATION (W = 11 FT, D = 1.0 FT)



Similar to The Glade, Reach 3



# SNAKEDEN BRANCH - REACH 1 (W = 14 FT, D = 1 FT)



**4 Months After  
Construction**

**Similar to The Glade, Reach 2**



# SNAKEDEN BRANCH - REACH 2 (W = 17.5 FT, D = 1.8 FT)



Similar to The Glade, Reach 2



QUESTIONS ?