



WILDLIFE HABITAT FEATURE INVENTORY

NORTHERN VIRGINIA STREAM RESTORATION BANK

A PORTION OF THE COLVIN RUN WATERSHED

FAIRFAX COUNTY, VIRGINIA

Prepared For:

Northern Virginia Stream Restoration, L.C.
c/o Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100
Gainesville, Virginia 20155

WSSI Project #20010

January 26, 2010
Revised January 20, 2011

L:\20000s\20010\Admin\05-ENVR\Wildlife\COVER.DOC

Wildlife Habitat Feature Inventory
A Portion of the Colvin Run Watershed
Fairfax County, Virginia
WSSI #20010

January 26, 2010
Revised January 20, 2011

Executive Summary

Between March 23 and April 24, 2009, on December 17, 2009, and on December 21, 2010, Wetland Studies and Solutions, Inc. (WSSI) conducted a Wildlife Habitat Feature Inventory within the study area associated with the Colvin Run portion of the Northern Virginia Stream Restoration Bank (NVSRB). This study was conducted to determine the location of active, inactive, and potential wildlife denning and nesting features within the study areas of the Colvin Run watershed.

In summary, several wildlife habitat features were found, including stick nests, squirrel nests, cavities and sub surface runs, within the Colvin Run study areas. The results of this inventory will be used by project engineers to minimize the stream restoration project's impact on local wildlife.

Introduction

As set forth in the NVSRB Banking Instrument, dated February 17, 2006 and prepared by WSSI, the Northern Virginia Stream Restoration, L.C. will restore approximately 14 miles of streams and upland buffers within portions of the Snakeden Branch, Colvin Run, and The Glade watersheds in Reston, Virginia. In order to minimize the effect of the stream restoration project on the resident wildlife populations, WSSI inventoried the location of active, inactive, and potential wildlife denning and nesting features within the Colvin Run portion of the NVRSB. This report identifies the location of these features found within the Colvin Run watershed study areas.

Project Area

This project is part of Phase I of the Northern Virginia Stream Restoration Bank, which will result in the restoration of approximately 14 miles of streams in the Reston, Virginia area. The study area is gently to moderately sloping, and includes the floodplain of Colvin Run and its tributaries, generally centered on the intersection of Wiehle Avenue (Route 828) and Baron Cameron Avenue (Route 606) in northwestern Fairfax County, Virginia (Exhibit 1). The study area is separated into nine different areas, which correspond to the stream restoration design reaches. These areas are called Lake Newport, Bennington Woods, Vantage Hill, Baron Cameron Park, Lake Anne, Forest Edge, Wiehle, Tall Oaks, and Buttermilk Creek.

The topography can be seen in the excerpt from the Vienna, Virginia-Maryland 1994 USGS topographic quadrangle map included as Exhibit 2, as well as in the background topography on the Wildlife Habitat Feature Location Map (Exhibit 6). The majority of the study areas where stream restoration is proposed are occupied by upland mixed deciduous and mixed deciduous/coniferous forests, floodplain forests, grassy utility corridors, and parks.

The boundaries of jurisdictional wetlands and other waters of the U.S. located within the study area were delineated and survey-located by WSSI as described in a report entitled "Waters of the U.S. Delineation, Northern Virginia Stream Restoration Bank, A Portion of the Colvin Run Watershed (\pm 116 acres)". WSSI has received a confirmation letter (# 2007-2482) from the U.S. Army Corps of Engineers dated May 31, 2007, approving the delineation. This report was revised to include additional areas in a revision dated January 14, 2010. A jurisdictional determination from the COE was issued on September 29, 2010 (#2010-0397).

Methodology

Between March 23 through April 24, 2009, on December 17, 2009, and on December 21, 2010 Environmental Scientists Sean D. Sipple, PWS, PWD, C.T.¹, Jennifer D. Feese, PWS, PWD², Lynn Straughan, PWS, PWD³, Beth A. Clements and Senior Environmental Compliance Specialist Jason Beeler, examined all study areas, including both aquatic and terrestrial habitats. Aquatic and terrestrial areas were inspected to identify and map specific wildlife habitat features within the study areas to classify them according to type. Only representative wildlife habitat features (or lack of) were photographed, as depicted in Exhibit 4. Any wildlife species directly observed or animal signs such as tracks and scat were noted during the fieldwork. For the purpose of this report, WSSI has defined the wildlife habitat features as follows:

- A. Nest** – A nest is defined as a place of refuge to hold an animal's eggs and/or provide a place to raise their offspring. Nests are usually made of sticks and leaves. Nests were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:

- 1) Stick Nest
- 2) Leafy Nest
- 3) Songbird nest

¹ Professional Wetland Scientist #1730, Society of Wetlands Scientists Certification Program, Inc.; Virginia Certified Professional Wetland Delineator #3402-000096; North American Benthological Society (NABS) Certified Level 1 Taxonomist: All Phyla; NABS Certified Level 2 Taxonomist: EPT Taxa (Ephemeroptera, Plecoptera, Trichoptera)

² Professional Wetland Scientist #1871, Society of Wetlands Scientists Certification Program, Inc.; Virginia Certified Professional Wetland Delineator #3402-000095

³ Professional Wetland Scientist #1491, Society of Wetland Scientists Certification Program, Inc.; Virginia Certified Professional Wetland Delineator #3402 000029

B. Cavity – A cavity is defined as a hollowed out feature in a standing tree which can provide an animal (usually avian) with refuge and a place to raise their offspring. Cavities were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:

- 1) Snag
- 2) Live Tree

C. Den – A den is defined as a hollowed out feature, either in a deadfall, tree hollow, or ground hollow. Dens were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:

- 1) Deadfall
- 2) Tree Hollow
- 3) Ground Hollow

D. Subsurface Erosional Feature – A subsurface erosional feature is defined as a naturally-occurring subterranean hollow, usually associated with a drainage feature and may be used as a wildlife travel corridor. These features are not likely to be utilized as den sites due to their high probability of flooding during runoff-producing events. Subsurface erosional features were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:

- 1) Inactive
- 2) Active

E. Snag - A snag refers to a standing, partly or completely dead tree, often missing a top or most of the smaller branches, and greater than or equal to 20 inches diameter breast height. These features were identified regardless of evidence of known wildlife usage.

F. Vernal Pool – A vernal pool is a form of temporary, freshwater wetland that contains water for a portion of the year and supports a variety of wildlife. Vernal pools are often found in the floodplains of streams, in seasonally-flooded woodlands, as sinkhole ponds, or where rainwater and snowmelt collect in forest depressions.

Results and Conclusions

Nine-hundred seventy-three (973) wildlife habitat features were located throughout the Colvin Run watershed study areas, including stick, songbird, and squirrel nests, cavities, snags, and dens. Additionally, two active red-shouldered hawk (*Buteo lineatus*) nests (Tall Oaks and Vantage Hill study areas), one active American crow (*Corvus brachyrhynchos*) nest (Bennington Woods study area) and one active hairy

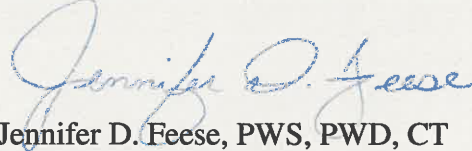
woodpecker (*Picoides villosus*) cavity (Lake Newport study area) were observed. Several other active habitat features were observed throughout the study areas but the associated animal could not be identified due to the lack of visual confirmation. The location of the wildlife habitat features are depicted on the Wildlife Habitat Feature Location Map (Exhibit 6) and are summarized in the habitat feature table included as Exhibit 5. The results of this inventory will be used by project engineers to further limit the stream restoration project's impact on local wildlife habitat features.

Limitations

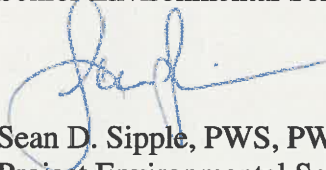
This study is based on examination of the conditions on the study site at the time of our review and does not address conditions in the future. Such conditions change over time. Therefore, our conclusions may vary from future observations. Our wildlife habitat feature inventory report has been prepared in accordance with generally accepted guidelines for the conduct of such evaluations. We make no other warranties, either expressed or implied that other wildlife species will not be observed in the project site during future wildlife surveys.

If you have any questions regarding this report, please contact me at (703) 679-5637 or jfeese@wetlandstudies.com.

WETLAND STUDIES AND SOLUTIONS, INC.



Jennifer D. Feese, PWS, PWD, CT
Senior Environmental Scientist

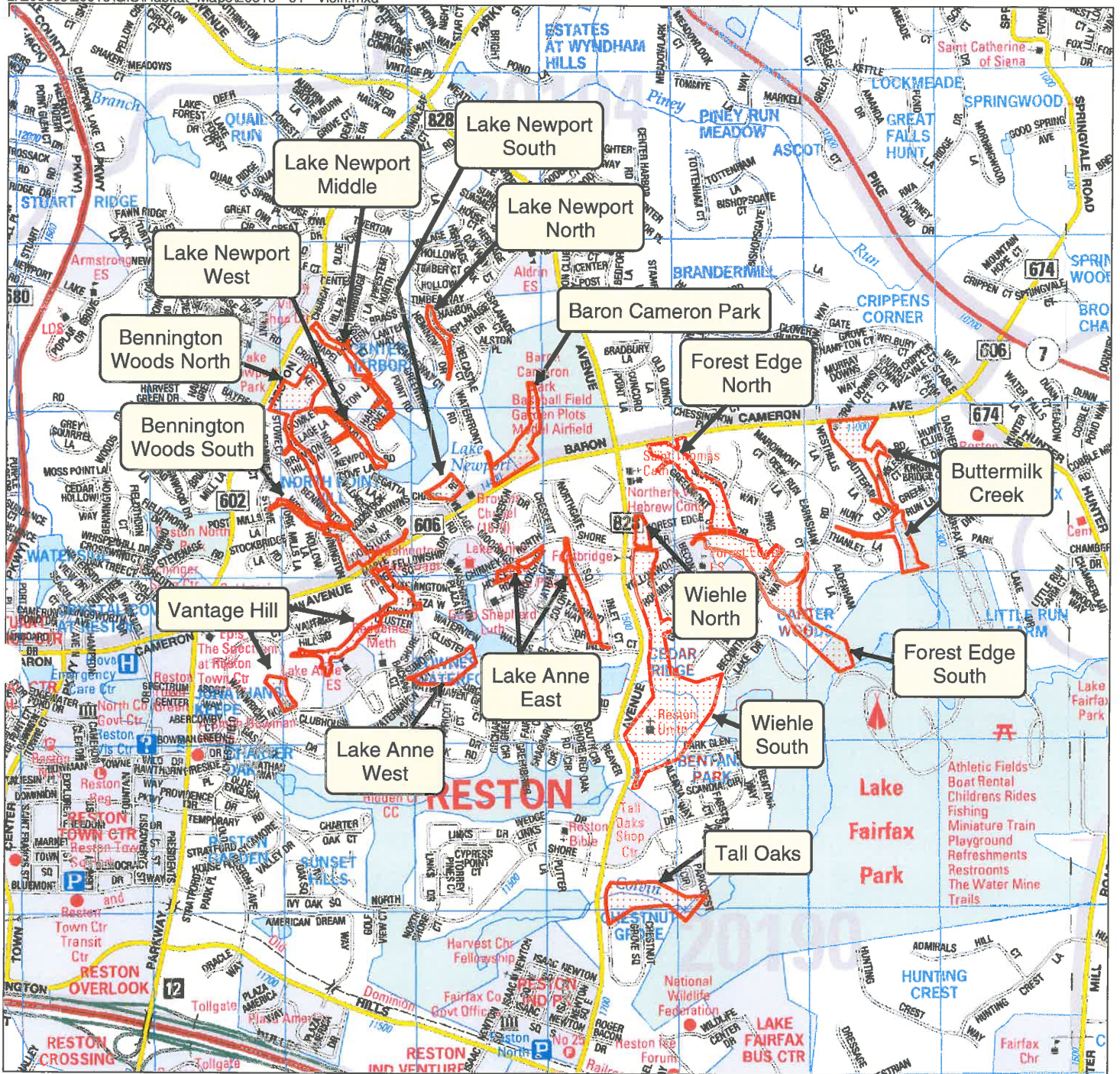


Sean D. Sipple, PWS, PWD, CT, CE
Project Environmental Scientist



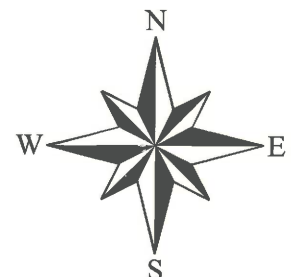
Mark Headly, PWS, PWD, LEED[®] AP⁴
Executive Vice President

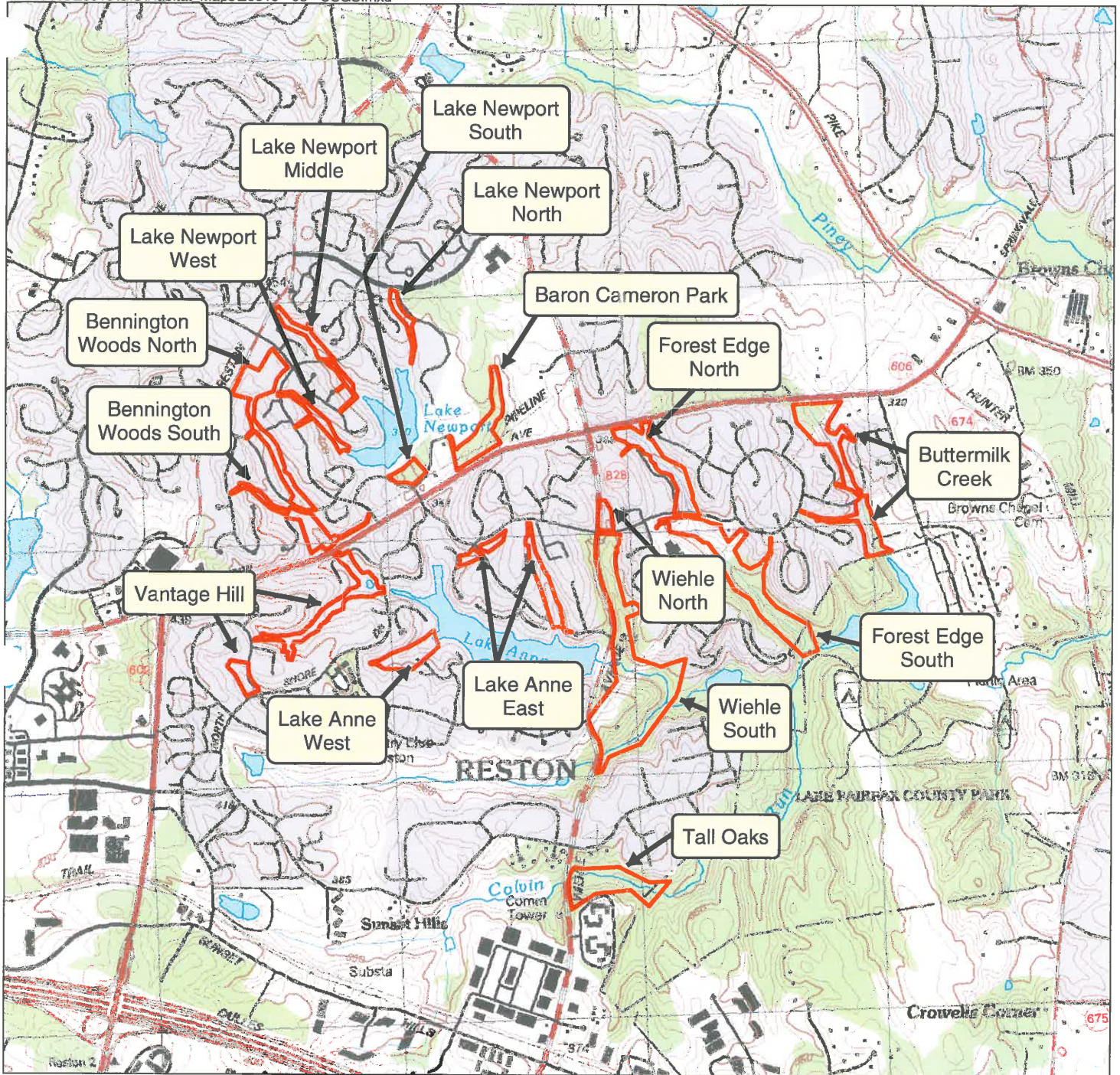
⁴ U.S. Army Corps of Engineers Wetland Delineator Certification #WDCP94MD0310114B, Professional Wetland Scientist #000462, Society of Wetlands Scientists Certification Program, Inc., and VA Certified Professional Wetland Delineator #3402-000031



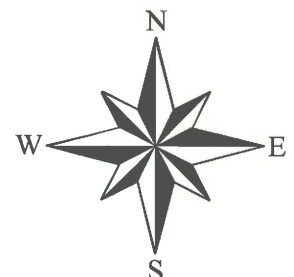
Copyright ADC The Map People
Permitted Use Number 20711184

Vicinity Map
Northern Virginia Stream Restoration Bank
A Portion of the Colvin Run Watershed
WSSI #20010
Scale: 1" = 2000'

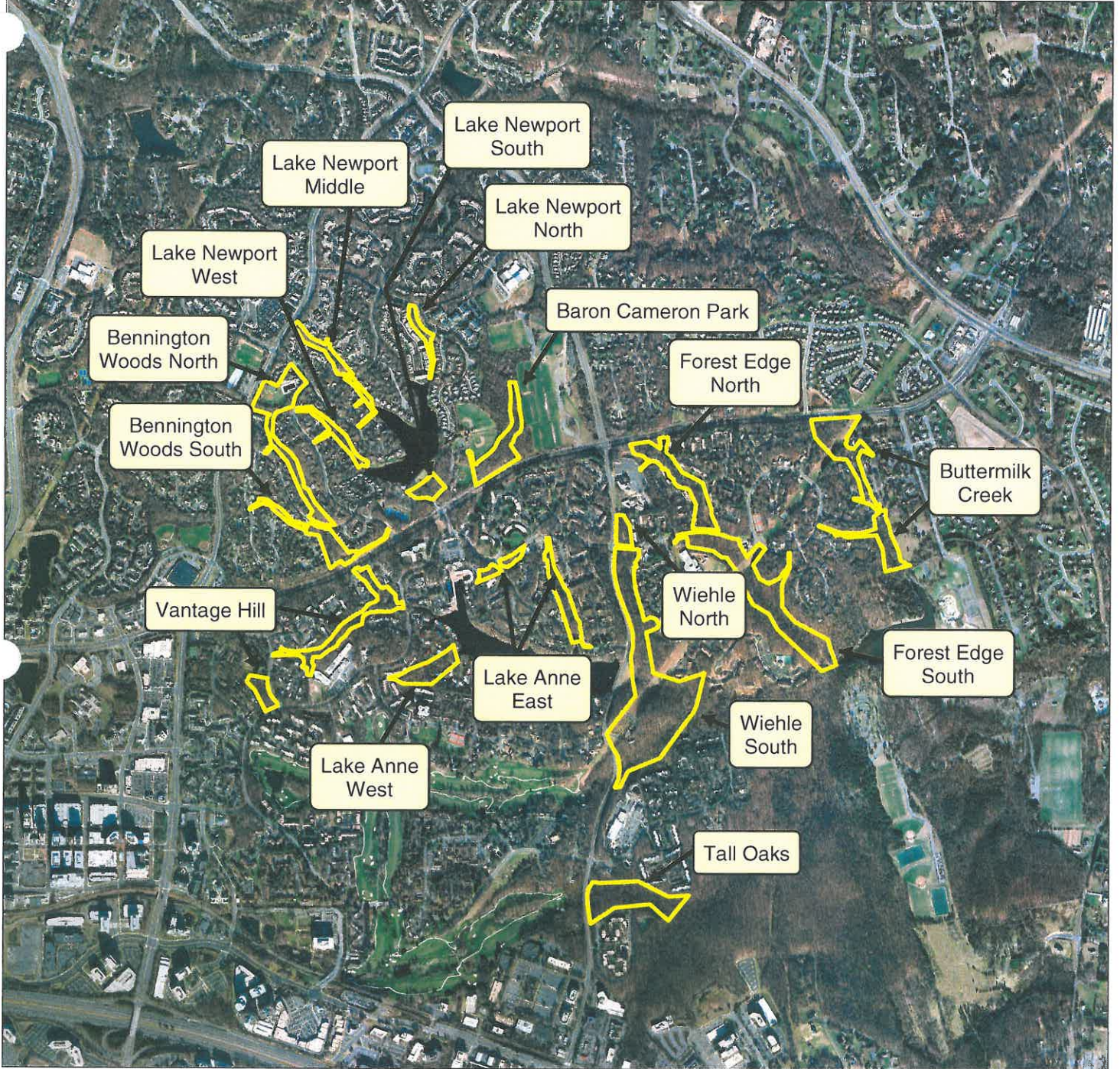




USGS Quad Map
Vienna, VA-MD 1994
Northern Virginia Stream Restoration Bank
A Portion of the Colvin Run Watershed
WSSI #20010
Scale: 1" = 2000'



Latitude: 38°58'09" N
Longitude: 77°20'06" W
Hydrologic Unit Code (HUC): 02070008
Stream Class: III
Name of Watershed: Colvin Run



**December 2008 Natural Color Imagery
Northern Virginia Stream Restoration Bank
A Portion of the Colvin Run Watershed
WSSI #20010
Scale: 1" = 2000'**

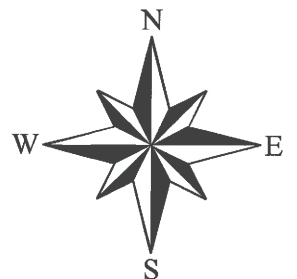


Photo Source: Aerials Express

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



1. Representative stick nest in tree #12658 (Attachment I, Sheet 19).



2. Representative snag approximately 10 feet southwest of tree #12636 (Attachment I, Sheet 19).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



3. Representative unknown den in tree #12629 (Attachment I, Sheet 19).



4. Representative unknown den in a tree hollow in tree #12682 (Attachment I, Sheet 19).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



5. Representative unknown cavity in tree #13513 (Attachment I, Sheet 19).



6. Representative squirrel nest (leaf nest) approximately 20 feet northwest of tree #12737 (Attachment I, Sheet 19).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



7. Active cavity with a Carolina chickadee (*Poecile carolinensis*) nest behind tree #13721 (Attachment I, Sheet 18).



8. Carolina chickadee eggs located in the cavity depicted in Photo 7 (Attachment I, Sheet 18).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



9. Representative unknown den in a tree hollow in tree #11665 (Attachment I, Sheet 17).



10. Representative unknown songbird nest approximately 20 feet southwest of tree #12322 (Attachment I, Sheet 11). This photo was taken on April 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



11. Representative unknown stick nest in tree #12258 (Attachment I, Sheet 11). This photo was taken on April 23, 2009.



12. Representative unknown ground den in tree #12196 (Attachment I, Sheet 11). This photo was taken on April 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



13. Representative unknown cavity in tree #12016 (Attachment I, Sheet 16).



14. Representative unknown den in a tree hollow approximately five feet southeast of tree #12346 (Attachment I, Sheet 11).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



15. Representative unknown den in a deadfall tree approximately eight feet southeast of tree #12402 (Attachment I, Sheet 11).



16. Representative snag at tree #10512 (Attachment I, Sheet 16).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



17. Representative unknown tree hollow den in tree #15805 (Attachment I, Sheet 13).



18. Representative snag at tree #15806 (Attachment I, Sheet 13).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



19. Representative unknown cavity in tree #13253 (Attachment I, Sheet 13). This photo was taken on March 26, 2009.



20. Representative active subsurface erosional feature adjacent to tree #15798 (Attachment I, Sheet 13).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



21. Vernal pool near tree #13450 (Attachment I, Sheet 13). This photo was taken on March 26, 2009.



22. Representative inactive subsurface erosional feature at tree #13451 (Attachment I, Sheet 13). This photo was taken on March 26, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



23. Representative stick nest approximately 40 feet northeast of tree #13006 (Attachment I, Sheet 14). This photo was taken on March 23, 2009.



24. Representative unknown den in a deadfall tree approximately 15 feet north of tree #13097 (Attachment I, Sheet 14). This photo was taken on March 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



- 25. Representative stick nest in tree #13144 (Attachment I, Sheet 14). This photo was taken on March 23, 2009.**



- 26. Representative songbird nest 12 feet northeast of tree #17277 (Attachment I, Sheet 12). This photo was taken on March 26, 2009.**

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



27. Representative active den in a tree hollow at tree #16695 (Attachment I, Sheet 12). This photo was taken on March 26, 2009.



28. Representative unknown cavity in tree #28627 (Attachment I, Sheet 10).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



- 29. Representative unknown cavity in a snag approximately 10 feet south of tree #28614 (Attachment I, Sheet 10).**



- 30. Representative unknown songbird nest approximately 10 feet southeast of tree #28603 (Attachment I, Sheet 10). No eggs were observed in the nest during the wildlife survey field work.**

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



31. Representative snag approximately five feet southeast of tree #28562 (Attachment I, Sheet 10).



32. Representative squirrel nest (leaf nest) in tree #28529 (Attachment I, Sheet 10).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



33. Representative unknown den in a deadfall tree adjacent to tree #28545 (Attachment I, Sheet 10).



34. Representative unknown den in tree #28725 (Attachment I, Sheet 10).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



35. Representative unknown ground den beneath fallen tree #28755 (Attachment I, Sheet 10).



36. Representative den in a tree hollow at tree #27298 (Attachment I, Sheet 9). This photo was taken on March 26, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



- 37. Vernal pool northwest of tree #27296 (Attachment I, Sheet 9). This photo was taken on March 26, 2009.**



- 38. Representative unknown active subsurface erosional feature at tree #27246 (Attachment I, Sheet 9). This photo was taken on March 26, 2009.**

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



39. Representative songbird nest in tree #17390 (Attachment I, Sheet 9). This photo was taken on March 26, 2009.



40. Representative unknown cavities in trees #17412 and 17414 (Attachment I, Sheet 9). This photo was taken on March 26, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



41. Representative stick nest in tree #17740 (Attachment I, Sheet 8). This photo was taken on March 26, 2009.



42. Representative unknown den in a deadfall tree approximately 10 feet south of tree #17746 (Attachment I, Sheet 8). This photo was taken on March 26, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



43. Representative unknown cavity in tree #27761 (Attachment I, Sheet 2).



44. Representative unknown den in a tree hollow in tree #27701 (Attachment I, Sheet 2).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



45. Representative unknown stick nest approximately six feet east of tree #27817 (Attachment I, Sheet 2).



46. Representative snag approximately five feet northeast of tree #27897 (Attachment I, Sheet 2).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



47. Representative stick nest approximately 25 feet southeast of tree #27887 (Attachment I, Sheet 2).



48. Representative unknown songbird nest approximately four feet west of tree #28169 (Attachment I, Sheet 2). No eggs were observed in the nest during the wildlife survey field work.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



49. Representative unknown den in a deadfall tree adjacent to tree #27466 (Attachment I, Sheet 3).



50. Representative snag approximately 15 feet southeast of tree #27489 (Attachment I, Sheet 3).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



51. Representative unknown den in a tree hollow approximately eight feet east of tree #27584 (Attachment I, Sheet 3).



52. Representative stick nest approximately 60 feet northeast of tree #27599 (Attachment I, Sheet 3).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



53. Active hairy woodpecker (*Picoides villosus*) cavity approximately 10 feet northwest of tree #27347 (Attachment I, Sheet 3).



54. Raccoon (*Procyon lotor*) tracks located near tree #18861 (Attachment I, Sheet 3). This photo was taken on April 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



55. Representative unknown cavity in tree #19975 (Attachment I, Sheet 4).



56. Representative snag located approximately six feet southwest of tree #19943 (Attachment I, Sheet 4).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



57. Representative squirrel nest (leaf nest) approximately 40 feet southeast of tree #19781 (Attachment I, Sheet 4).



58. Representative ground den adjacent to tree #19683 (Attachment I, Sheet 4).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**

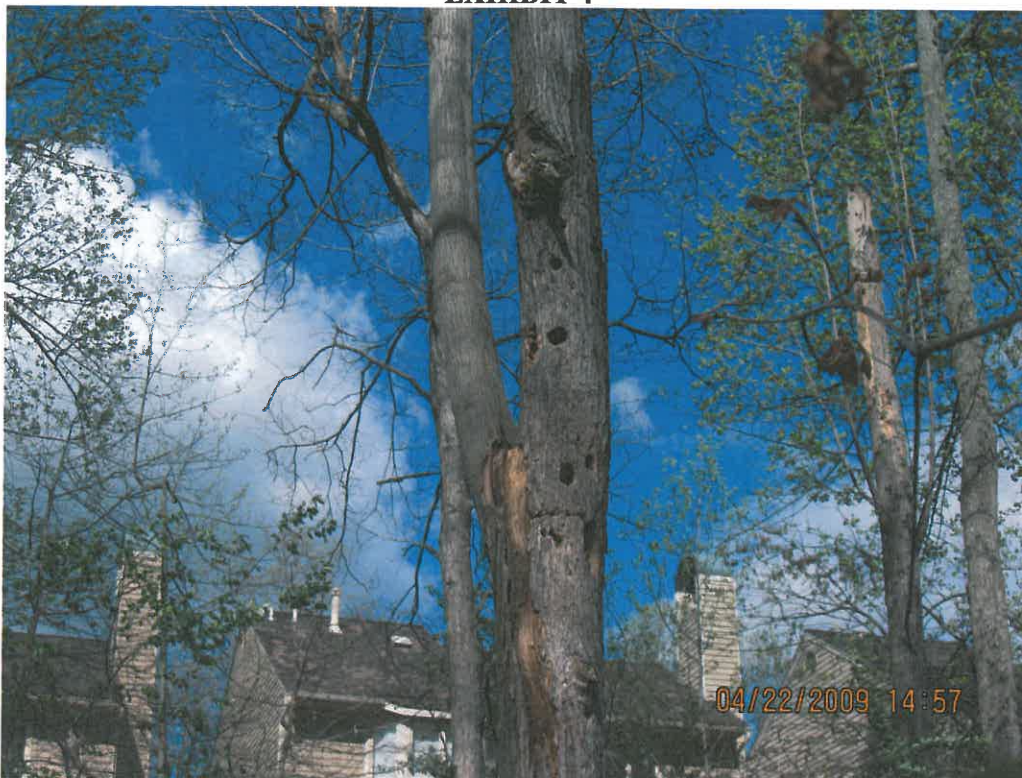


59. Representative unknown den in a deadfall tree adjacent to tree #19680 (Attachment I, Sheet 4).



60. Representative stick nest in tree #19608 (Attachment I, Sheet 4).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



61. Representative unknown cavity approximately 25 feet east of tree #19588 (Attachment I, Sheet 4).



62. Representative unknown ground den approximately 25 feet east of tree #19564 (Attachment I, Sheet 4).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



63. Representative unknown den in a tree hollow in tree #18838 (Attachment I, Sheet 3).



64. Representative snag approximately five feet southwest of tree #27147. This photo was taken on March 27, 2009 (Attachment I, Sheet 6).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



65. Representative unknown cavity approximately 10 feet northwest of tree #27136 (Attachment I, Sheet 6).



66. Representative squirrel nest (leaf nest) in tree #27129. This photo was taken on March 27, 2009 (Attachment I, Sheet 6).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



67. Representative unknown den in a tree hollow in tree #27122 (Attachment I, Sheet 6).



68. Representative stick nest in tree #26979 (Attachment I, Sheet 6).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



69. Active red-shouldered hawk (*Buteo lineatus*) nest approximately 20 feet southwest of tree #27191. This photo was taken on March 27, 2009 (Attachment I, Sheet 6).



70. Red-shouldered hawk associated with the nest in Photo 69 (Attachment I, Sheet 6). This photo was taken on March 27, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



71. Representative songbird nest approximately 60 feet northeast of tree #26153 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.



72. Vernal pool approximately 10 feet north of tree #26281 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



- 73** Representative den in a tree hollow in tree #26402 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.



- 74.** Representative squirrel nest (leaf nest) approximately 40 feet southeast of tree #28206 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



75. Representative snag at tree #28270 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.



76. Representative unknown cavity in tree #28272 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



77. Representative unknown ground den approximately 10 feet north of tree #28328 (Attachment I, Sheet 5). This photo was taken on March 27, 2009.

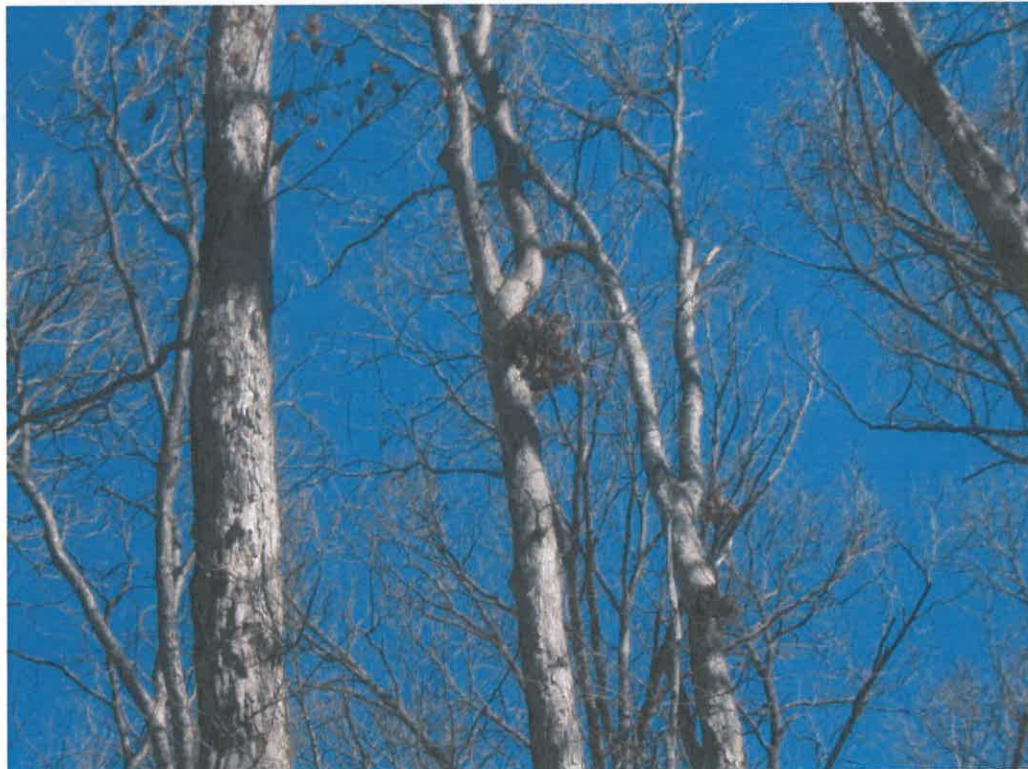


78. Active red-shouldered hawk (*Buteo lineatus*) nest in tree #18236 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



79. Red-shouldered hawk associated with the nest in Photo 78 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.



80. Representative squirrel nest (leaf nest) in tree #18157 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



81. Vernal pool located adjacent to tree #18511 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.



82. Representative unknown den in a tree hollow in tree #18337 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



83. Representative unknown cavity in tree #18341 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.



84. Representative unknown den in deadfall tree #18320 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



85. Representative stick nest approximately 15 feet south of tree #18690 (Attachment I, Sheet 15). This photo was taken on March 23, 2009.

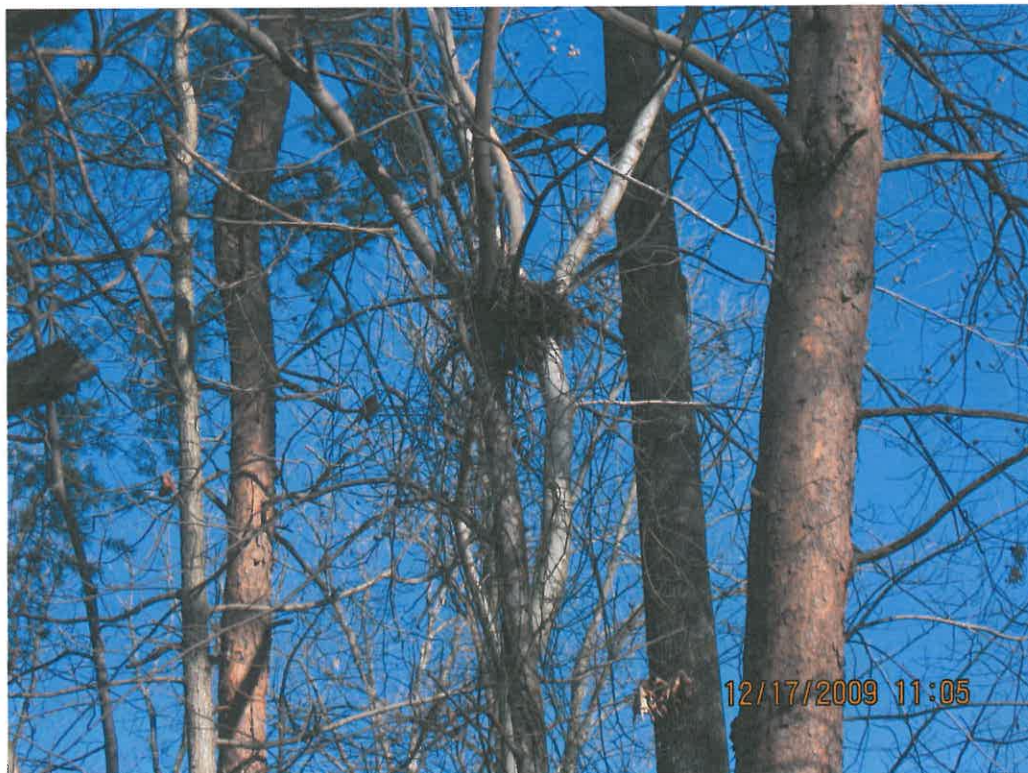


86. Representative snag at tree #37232 (Attachment I, Sheet 7).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



87. Representative squirrel nest (leaf nest) approximately 5 feet northwest of tree #37052 (Attachment I, Sheet 7).



88. Representative stick nest approximately 3 feet northwest of tree #37062 (Attachment I, Sheet 7).

**A PORTION OF THE COLVIN RUN WATERSHED
WILDLIFE HABITAT FEATURE INVENTORY
EXHIBIT 4**



89. Representative leaf nest at tree #38553 (Attachment I, Sheet 5).



90. Representative snag at tree #38563 (Attachment I, Sheet 5).

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Buttermilk Creek	A1	t12578	Stick Nest
Buttermilk Creek	A1	t12697	Stick Nest
Buttermilk Creek	A1	t12743	Stick Nest
Buttermilk Creek	A1	t12880	Stick Nest
Buttermilk Creek	A1	t13644	Stick Nest
Buttermilk Creek	A1	40' W of Tree #12612	Stick Nest
Buttermilk Creek	A1	10' SE of Tree #13576	Stick Nest
Buttermilk Creek	A1	15' E of Tree #12746	Stick Nest
Buttermilk Creek	A1	30' NE of Tree #12795	Stick Nest
Buttermilk Creek	A1/B2	t12658	Stick Nest/Cavity in a Live Tree
Buttermilk Creek	A1/B2	30' NW of Tree #12847	Stick Nest/Cavity in a Live Tree
Buttermilk Creek	A2	t13625	Leafy Nest (Squirrel Nest)
Buttermilk Creek	A2	20' NW of Tree #12737	Leafy Nest (Squirrel Nest)
Buttermilk Creek	A2	50' NE of Tree #12795	Leafy Nest (Squirrel Nest)
Buttermilk Creek	A2	30' NE of Tree #13815	Leafy Nest (Squirrel Nest)
Buttermilk Creek	A2/C2	t12746	Leafy Nest (Squirrel Nest)/Den in a Tree Hollow
Buttermilk Creek	A3/B2/C2	t12620	Song Bird Nest/Cavity in a Live Tree/Den in a Tree Hollow
Buttermilk Creek	B1	t12568	Cavity in a Snag
Buttermilk Creek	B1	t12622	Cavity in a Snag
Buttermilk Creek	B1	Next to Tree #12781	Cavity in a Snag
Buttermilk Creek	B1	t12901	Cavity in a Snag
Buttermilk Creek	B1	t12907	Cavity in a Snag
Buttermilk Creek	B1	t12941	Cavity in a Snag
Buttermilk Creek	B1	t12946	Cavity in a Snag
Buttermilk Creek	B1	t13583	Cavity in a Snag
Buttermilk Creek	B1	t13657	Cavity in a Snag
Buttermilk Creek	B1	t13831	Cavity in a Snag
Buttermilk Creek	B1	15' S of Tree #13649	Cavity in a Snag
Buttermilk Creek	B1	10' SW of Tree #12605	Cavity in a Snag
Buttermilk Creek	B1	13' E of Tree #12602	Cavity in a Snag
Buttermilk Creek	B1	3' W of Tree #12561	Cavity in a Snag
Buttermilk Creek	B1	3' W of Tree #13580	Cavity in a Snag
Buttermilk Creek	B1	50' W of Tree #12737	Cavity in a Snag
Buttermilk Creek	B1	70' NW of Tree #12737	Cavity in a Snag
Buttermilk Creek	B1	6' SE of Tree #12753	Cavity in a Snag
Buttermilk Creek	B1	6' SE of Tree #12756	Cavity in a Snag
Buttermilk Creek	B1	12' W of Tree #12768	Cavity in a Snag
Buttermilk Creek	B1	5' NW of Tree #13835	Cavity in a Snag
Buttermilk Creek	B1	60' SW of Tree #12913	Cavity in a Snag
Buttermilk Creek	B1	25' NE of Tree #12941	Cavity in a Snag
Buttermilk Creek	B1	30' NE of Tree #12946	Cavity in a Snag
Buttermilk Creek	B1	35' E of Tree #13886	Cavity in a Snag
Buttermilk Creek	B2	t12542	Cavity in a Live Tree
Buttermilk Creek	B2	t12584	Cavity in a Live Tree
Buttermilk Creek	B2	t12602	Cavity in a Live Tree
Buttermilk Creek	B2	t12619	Cavity in a Live Tree
Buttermilk Creek	B2	t12621	Cavity in a Live Tree
Buttermilk Creek	B2	t12637	Cavity in a Live Tree
Buttermilk Creek	B2	t12660	Cavity in a Live Tree
Buttermilk Creek	B2	t12684	Cavity in a Live Tree
Buttermilk Creek	B2	t12692	Cavity in a Live Tree
Buttermilk Creek	B2	t12760	Cavity in a Live Tree
Buttermilk Creek	B2	t12850	Cavity in a Live Tree
Buttermilk Creek	B2	t12874	Cavity in a Live Tree
Buttermilk Creek	B2	t12902	Cavity in a Live Tree
Buttermilk Creek	B2	t12964	Cavity in a Live Tree

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Buttermilk Creek	B2	t13513	Cavity in a Live Tree
Buttermilk Creek	B2	t13573	Cavity in a Live Tree
Buttermilk Creek	B2	t13597	Cavity in a Live Tree
Buttermilk Creek	B2	t13617	Cavity in a Live Tree
Buttermilk Creek	B2	t13705	Cavity in a Live Tree
Buttermilk Creek	B2	t13861	Cavity in a Live Tree
Buttermilk Creek	B2	t13875	Cavity in a Live Tree
Buttermilk Creek	B2	t13885	Cavity in a Live Tree
Buttermilk Creek	B2	30' W of Tree #12631	Cavity in a Live Tree
Buttermilk Creek	B2	35' W of Tree #12601	Cavity in a Live Tree
Buttermilk Creek	B2	65' W of Tree #12601	Cavity in a Live Tree
Buttermilk Creek	B2	65' W of Tree #12594	Cavity in a Live Tree
Buttermilk Creek	B2	65' W of Tree #12599	Cavity in a Live Tree
Buttermilk Creek	B2	20' W of Tree #12555	Cavity in a Live Tree
Buttermilk Creek	B2	10' S of Tree #13885	Cavity in a Live Tree
Buttermilk Creek	B2	80' NW of Tree #12737	Cavity in a Live Tree
Buttermilk Creek	B2	80' SW of Tree #12876	Cavity in a Live Tree
Buttermilk Creek	B2	65' SW of Tree #12876	Cavity in a Live Tree
Buttermilk Creek	B2	12' S of Tree #12964	Cavity in a Live Tree
Buttermilk Creek	B2	60' NE of Tree #12910	Cavity in a Live Tree
Buttermilk Creek	B2	30' W of Tree 13866	Cavity in a Live Tree
Buttermilk Creek	B2	Next to Tree #13832	Cavity in a Live Tree
Buttermilk Creek	B2	10' SW of Tree #13786	Cavity in a Live Tree
Buttermilk Creek	B2/C2	t13604	Cavity in a Live Tree/Den in a Tree Hollow
Buttermilk Creek	B2/C2	45' SW of Tree #12611	Cavity in a Live Tree/Den in a Tree Hollow
Buttermilk Creek	C1	t12629	Den in Deadfall
Buttermilk Creek	C1	t12690	Den in Deadfall
Buttermilk Creek	C1	t13617	Den in Deadfall
Buttermilk Creek	C1	15' E of Tree #12684	Den in Deadfall
Buttermilk Creek	C1	30' S of Tree #13541	Den in Deadfall
Buttermilk Creek	C1	3' NE of Tree #13576	Den in Deadfall
Buttermilk Creek	C2	t12532	Den in a Tree Hollow
Buttermilk Creek	C2	t12541	Den in a Tree Hollow
Buttermilk Creek	C2	t12583	Den in a Tree Hollow
Buttermilk Creek	C2	t12599	Den in a Tree Hollow
Buttermilk Creek	C2	t12682	Den in a Tree Hollow
Buttermilk Creek	C2	t12740	Den in a Tree Hollow
Buttermilk Creek	C2	t12781	Den in a Tree Hollow
Buttermilk Creek	C2	t13561	Den in a Tree Hollow
Buttermilk Creek	C2	t13790	Den in a Tree Hollow
Buttermilk Creek	C2	30' W of #12590	Den in a Tree Hollow
Buttermilk Creek	C2	3' NW of Tree #13515	Den in a Tree Hollow
Buttermilk Creek	C2	10' NE of Tree #12946	Den in a Tree Hollow
Buttermilk Creek	C2	20' N of Tree #13774	Den in a Tree Hollow
Buttermilk Creek	C2	5' NE of Tree #13788	Den in a Tree Hollow
Buttermilk Creek	C2/C3	t12535	Den in a Tree Hollow/Den in a Ground Hollow
Buttermilk Creek	C3	t12539	Den in a Ground Hollow
Buttermilk Creek	C3	t12566	Den in a Ground Hollow
Buttermilk Creek	C3	t12611	Den in a Ground Hollow
Buttermilk Creek	C3	t12691	Den in a Ground Hollow
Buttermilk Creek	C3	t12790	Den in a Ground Hollow
Buttermilk Creek	C3	t13618	Den in a Ground Hollow
Buttermilk Creek	C3	t13660	Den in a Ground Hollow
Buttermilk Creek	C3	t13864	Den in a Ground Hollow
Buttermilk Creek	C3	3' W of Tree #12697	Den in a Ground Hollow
Buttermilk Creek	C3	3' S of Tree #13559	Den in a Ground Hollow

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Buttermilk Creek	C3	30' N of Tree #12794	Den in a Ground Hollow
Buttermilk Creek	C3	12' S of Tree #12830	Den in a Ground Hollow
Buttermilk Creek	E	t12910	Snag (No Wildlife Feature)
Buttermilk Creek	E	t13826	Snag (No Wildlife Feature)
Buttermilk Creek	E	t13892	Snag (No Wildlife Feature)
Buttermilk Creek	E	13' West of Tree #12642	Snag (No Wildlife Feature)
Buttermilk Creek	E	30' WSW of Tree #12642	Snag (No Wildlife Feature)
Buttermilk Creek	E	10' SW of Tree #12636	Snag (No Wildlife Feature)
Buttermilk Creek	E	20' NW of Tree #12568	Snag (No Wildlife Feature)
Buttermilk Creek	E	3' S of Tree #12566	Snag (No Wildlife Feature)
Buttermilk Creek	E	20' NW of Tree #12847	Snag (No Wildlife Feature)
Buttermilk Creek	E	Next to Tree #12909	Snag (No Wildlife Feature)
Buttermilk Creek	E	Next to Tree #13894	Snag (No Wildlife Feature)
Buttermilk Creek	E	12' S of Tree #13815	Snag (No Wildlife Feature)
Buttermilk Creek	E	25' NE of Tree #13774	Snag (No Wildlife Feature)
Buttermilk Creek	N/A	t12707	Eastern Grey Squirrel
Buttermilk Creek	N/A	t12707	Red-Bellied Woodpecker Calling
Buttermilk Creek	N/A	t12709	Tufted Titmouse
Buttermilk Creek	N/A	t12760	American Crow
Buttermilk Creek	N/A	t12760	Tufted Titmouse
Buttermilk Creek	N/A	t12890	Woodpecker Lines
Buttermilk Creek	N/A	t13512	Opossum tracks in mud
Buttermilk Creek	N/A	t13576	Pair of Mallards in Stream
Buttermilk Creek	N/A	t13617	Eastern Grey Squirrel
Buttermilk Creek	N/A	t13630	Deer Scat
Buttermilk Creek	N/A	10' NW of Tree #12661	Fox Scat
Forest Edge	A1	t10904	Stick Nest
Forest Edge	A1	t12170	Stick Nest
Forest Edge	A1	t12258	Stick Nest
Forest Edge	A1	t12265	Stick Nest
Forest Edge	A1	t12302	Stick Nest
Forest Edge	A1	t12404	Stick Nest
Forest Edge	A1	20' NE of Tree #11753	Stick Nest
Forest Edge	A1	15' SW of Tree #12512	Stick Nest
Forest Edge	A1	10' SW of Tree #12495	Stick Nest
Forest Edge	A1	15' NE of Tree #12438	Stick Nest
Forest Edge	A1	t35121	Stick Nest
Forest Edge	A1	6' S of Tree #36506	Stick Nest
Forest Edge	A1/B1	8' NW of Tree #12438	Stick Nest/Cavity in a Snag
Forest Edge	A2	t10823	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11289	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11619	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11747	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11806	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11821	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t11922	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t12011	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t12223	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t12426	Leafy Nest (Squirrel Nest)
Forest Edge	A2	165' NE of Tree #11533	Leafy Nest (Squirrel Nest)
Forest Edge	A2	20' W of Tree #12512	Leafy Nest (Squirrel Nest)
Forest Edge	A2	10' S of Tree #10961	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t35094	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t35113	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t35142	Leafy Nest (Squirrel Nest)
Forest Edge	A2	t35137	Leafy Nest (Squirrel Nest)

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Forest Edge	A2	t36514	Leafy Nest (Squirrel Nest)
Forest Edge	A2	10' SE of Tree #36507	Leafy Nest (Squirrel Nest)
Forest Edge	A2/B2	t35085	Leafy Nest (Squirrel Nest)/Cavity in a Live Tree
Forest Edge	A2/C2	20' SW of Tree #11239	Leafy Nest (Squirrel Nest)/Den in a Tree Hollow
Forest Edge	A3	t12331	Song Bird Nest
Forest Edge	A3	20' SW of Tree #12322	Song Bird Nest
Forest Edge	A3	8' NE of Tree #12273	Song Bird Nest
Forest Edge	B1	t10742	Cavity in a Snag
Forest Edge	B1	t10998	Cavity in a Snag
Forest Edge	B1	t11211	Cavity in a Snag
Forest Edge	B1	t11229	Cavity in a Snag
Forest Edge	B1	t11266	Cavity in a Snag
Forest Edge	B1	t11829	Cavity in a Snag
Forest Edge	B1	t12027	Cavity in a Snag
Forest Edge	B1	t12085	Cavity in a Snag
Forest Edge	B1	t12132	Cavity in a Snag
Forest Edge	B1	t12140	Cavity in a Snag
Forest Edge	B1	t12374	Cavity in a Snag
Forest Edge	B1	t12435	Cavity in a Snag
Forest Edge	B1	3' SE of Tree #11556	Cavity in a Snag
Forest Edge	B1	15' NW of Tree #11262	Cavity in a Snag
Forest Edge	B1	20' SW of Tree # 11273	Cavity in a Snag
Forest Edge	B1	3' W of Tree #11790	Cavity in a Snag
Forest Edge	B1	40' NE of Tree #11800	Cavity in a Snag
Forest Edge	B1	35' NE of Tree #11800	Cavity in a Snag
Forest Edge	B1	15' NNE of Tree #11804	Cavity in a Snag
Forest Edge	B1	12' N of Tree #12037	Cavity in a Snag
Forest Edge	B1	1' NW of Tree #12093	Cavity in a Snag
Forest Edge	B1	6' NW of Tree #12258	Cavity in a Snag
Forest Edge	B1	6' SE of Tree #12159	Cavity in a Snag
Forest Edge	B1	5' NW of Tree #12196	Cavity in a Snag
Forest Edge	B1	10' SW of Tree #10718	Cavity in a Snag
Forest Edge	B1	3' S of Tree #10943	Cavity in a Snag
Forest Edge	B1	15' W of Tree #10933	Cavity in a Snag
Forest Edge	B1	5' N of Tree #10925	Cavity in a Snag
Forest Edge	B1	2' N of Tree #10896	Cavity in a Snag
Forest Edge	B1	10' NE of Tree #11860	Cavity in a Snag
Forest Edge	B1	t36585	Cavity in a Snag
Forest Edge	B1	10' NE of Tree #35053	Cavity in a Snag
Forest Edge	B1/C2	40' NE of Tree #11790	Cavity in a Snag/Den in a Tree Hollow
Forest Edge	B2	t10988	Cavity in a Live Tree
Forest Edge	B2	t10990	Cavity in a Live Tree
Forest Edge	B2	t11218	Cavity in a Live Tree
Forest Edge	B2	t11232	Cavity in a Live Tree
Forest Edge	B2	t11368	Cavity in a Live Tree
Forest Edge	B2	t11542	Cavity in a Live Tree
Forest Edge	B2	t11830	Cavity in a Live Tree
Forest Edge	B2	t11853	Cavity in a Live Tree
Forest Edge	B2	t11882	Cavity in a Live Tree
Forest Edge	B2	t11937	Cavity in a Live Tree
Forest Edge	B2	t11974	Cavity in a Live Tree
Forest Edge	B2	t12016	Cavity in a Live Tree
Forest Edge	B2	t12071	Cavity in a Live Tree
Forest Edge	B2	t12084	Cavity in a Live Tree
Forest Edge	B2	t12139	Cavity in a Live Tree
Forest Edge	B2	t12154	Cavity in a Live Tree

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Forest Edge	B2	t12188	Cavity in a Live Tree
Forest Edge	B2	t12195	Cavity in a Live Tree
Forest Edge	B2	t12199	Cavity in a Live Tree
Forest Edge	B2	t12269	Cavity in a Live Tree
Forest Edge	B2	t12276	Cavity in a Live Tree
Forest Edge	B2	t12290	Cavity in a Live Tree
Forest Edge	B2	t12432	Cavity in a Live Tree
Forest Edge	B2	t12489	Cavity in a Live Tree
Forest Edge	B2	t12500	Cavity in a Live Tree
Forest Edge	B2	40' NE of Tree #11542	Cavity in a Live Tree
Forest Edge	B2	60' NE of Tree #11558	Cavity in a Live Tree
Forest Edge	B2	35' E of Tree #11611	Cavity in a Live Tree
Forest Edge	B2	40' NE of Tree #11617	Cavity in a Live Tree
Forest Edge	B2	35' NW of Tree #11265	Cavity in a Live Tree
Forest Edge	B2	15' SE of Tree #11273	Cavity in a Live Tree
Forest Edge	B2	35' E of Tree #11273	Cavity in a Live Tree
Forest Edge	B2	40' S of Tree #11329	Cavity in a Live Tree
Forest Edge	B2	50' E of Tree #10519	Cavity in a Live Tree
Forest Edge	B2	50' S of Tree #10974	Cavity in a Live Tree
Forest Edge	B2	50' W of Tree #10913	Cavity in a Live Tree
Forest Edge	B2	20' NE of Tree #11855	Cavity in a Live Tree
Forest Edge	B2	t36594	Cavity in a Snag
Forest Edge	B2	t36612	Cavity in a Snag
Forest Edge	B2	t36511	Cavity in a Snag
Forest Edge	B2/C2	t12258	Cavity in a Live Tree/Den in a Tree Hollow
Forest Edge	B2/C2	t12383	Cavity in a Live Tree/Den in a Tree Hollow
Forest Edge	B2/C2	t12448	Cavity in a Live Tree/Den in a Tree Hollow
Forest Edge	B2/C3	t12200	Cavity in a Live Tree/Den in a Ground Hollow
Forest Edge	C1	t11569	Den in Deadfall
Forest Edge	C1	12' NE of Tree #10612	Den in Deadfall
Forest Edge	C1	20' SW of Tree #11250	Den in Deadfall
Forest Edge	C1	5' S of #11359	Den in Deadfall
Forest Edge	C1	8' SE of Tree #12402	Den in Deadfall
Forest Edge	C1	6' SE of Tree #10591	Den in Deadfall
Forest Edge	C1	20' NE of Tree #10819	Den in Deadfall
Forest Edge	C2	t10574	Den in a Tree Hollow
Forest Edge	C2	t10650	Den in a Tree Hollow
Forest Edge	C2	t10733	Den in a Tree Hollow
Forest Edge	C2	t10824	Den in a Tree Hollow
Forest Edge	C2	t10829	Den in a Tree Hollow
Forest Edge	C2	t11343	Den in a Tree Hollow
Forest Edge	C2	t11537	Den in a Tree Hollow
Forest Edge	C2	t11665	Den in a Tree Hollow
Forest Edge	C2	t11762	Den in a Tree Hollow
Forest Edge	C2	t11785	Den in a Tree Hollow
Forest Edge	C2	t11834	Den in a Tree Hollow
Forest Edge	C2	t11895	Den in a Tree Hollow
Forest Edge	C2	t11936	Den in a Tree Hollow
Forest Edge	C2	t12040	Den in a Tree Hollow
Forest Edge	C2	t12051	Den in a Tree Hollow
Forest Edge	C2	t12057	Den in a Tree Hollow
Forest Edge	C2	t12089	Den in a Tree Hollow
Forest Edge	C2	t12120	Den in a Tree Hollow
Forest Edge	C2	t12184	Den in a Tree Hollow
Forest Edge	C2	t12185	Den in a Tree Hollow
Forest Edge	C2	t12301	Den in a Tree Hollow

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Forest Edge	C2	t12341	Den in a Tree Hollow
Forest Edge	C2	t12412	Den in a Tree Hollow
Forest Edge	C2	t12506	Den in a Tree Hollow
Forest Edge	C2	t12529	Den in a Tree Hollow
Forest Edge	C2	130' NE of Tree #11533	Den in a Tree Hollow
Forest Edge	C2	160' NNE of Tree #11533	Den in a Tree Hollow
Forest Edge	C2	30' NE of Tree # 11617	Den in a Tree Hollow
Forest Edge	C2	25' N of Tree #11265	Den in a Tree Hollow
Forest Edge	C2	40' NNW of Tree #11368	Den in a Tree Hollow
Forest Edge	C2	40' NE of Tree #11657	Den in a Tree Hollow
Forest Edge	C2	20' NNE of Tree #11829	Den in a Tree Hollow
Forest Edge	C2	5' SE of Tree #12346	Den in a Tree Hollow
Forest Edge	C2	25' W of Tree #12519	Den in a Tree Hollow
Forest Edge	C2	8' NE of Tree #10844	Den in a Tree Hollow
Forest Edge	C2	15' E of Tree #11880	Den in a Tree Hollow
Forest Edge	C2	t36595	Den in a Tree Hollow
Forest Edge	C2	t36597	Den in a Tree Hollow
Forest Edge	C2	t36592	Den in a Tree Hollow
Forest Edge	C2	t36533	Den in a Tree Hollow
Forest Edge	C2	t36524	Den in a Tree Hollow
Forest Edge	C2	10' NE of Tree #36566	Den in a Tree Hollow
Forest Edge	C2	t36575	Den in a Tree Hollow
Forest Edge	C3	Beside Tree t10953	Den in a Ground Hollow
Forest Edge	C3	t12196	Den in a Ground Hollow
Forest Edge	C3	t12387	Den in a Ground Hollow
Forest Edge	C3	5' S of Tree #11364	Den in a Ground Hollow
Forest Edge	C3	20' E of Tree #11783	Den in a Ground Hollow
Forest Edge	C3	1' SW of Tree #10695	Den in a Ground Hollow
Forest Edge	C3	5' S of Tree #10883	Den in a Ground Hollow
Forest Edge	C3	10' NE of Tree #11841	Den in a Ground Hollow
Forest Edge	D1	6' NW of Tree #12479	Inactive Subsurface Erosional Feature
Forest Edge	E	t10512	Snag (No Wildlife Feature)
Forest Edge	E	t10599	Snag (No Wildlife Feature)
Forest Edge	E	t10668	Snag (No Wildlife Feature)
Forest Edge	E	t10728	Snag (No Wildlife Feature)
Forest Edge	E	t10855	Snag (No Wildlife Feature)
Forest Edge	E	t10908	Snag (No Wildlife Feature)
Forest Edge	E	t10947	Snag (No Wildlife Feature)
Forest Edge	E	t10958	Snag (No Wildlife Feature)
Forest Edge	E	t11225	Snag (No Wildlife Feature)
Forest Edge	E	t11318	Snag (No Wildlife Feature)
Forest Edge	E	t11329	Snag (No Wildlife Feature)
Forest Edge	E	t11656	Snag (No Wildlife Feature)
Forest Edge	E	t11727	Snag (No Wildlife Feature)
Forest Edge	E	t11728	Snag (No Wildlife Feature)
Forest Edge	E	t11910	Snag (No Wildlife Feature)
Forest Edge	E	t11964	Snag (No Wildlife Feature)
Forest Edge	E	t11980	Snag (No Wildlife Feature)
Forest Edge	E	t12044	Snag (No Wildlife Feature)
Forest Edge	E	t12062	Snag (No Wildlife Feature)
Forest Edge	E	t12207	Snag (No Wildlife Feature)
Forest Edge	E	t12371	Snag (No Wildlife Feature)
Forest Edge	E	t12377	Snag (No Wildlife Feature)
Forest Edge	E	t12399	Snag (No Wildlife Feature)
Forest Edge	E	t12424	Snag (No Wildlife Feature)
Forest Edge	E	t12469	Snag (No Wildlife Feature)

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Forest Edge	E	t12485	Snag (No Wildlife Feature)
Forest Edge	E	t12495	Snag (No Wildlife Feature)
Forest Edge	E	t12504	Snag (No Wildlife Feature)
Forest Edge	E	30' N of Tree #11508	Snag (No Wildlife Feature)
Forest Edge	E	15' NE of Tree #11523	Snag (No Wildlife Feature)
Forest Edge	E	2' NW of Tree #11611	Snag (No Wildlife Feature)
Forest Edge	E	60' E of Tree #11656	Snag (No Wildlife Feature)
Forest Edge	E	25' W of Tree #11333	Snag (No Wildlife Feature)
Forest Edge	E	8' S of Tree #12037	Snag (No Wildlife Feature)
Forest Edge	E	15' NW of Tree #12086	Snag (No Wildlife Feature)
Forest Edge	E	8' W of Tree #12099	Snag (No Wildlife Feature)
Forest Edge	E	2' E of Tree #12276	Snag (No Wildlife Feature)
Forest Edge	E	10' NW of Tree #10567	Snag (No Wildlife Feature)
Forest Edge	E	5' S of Tree #10914	Snag (No Wildlife Feature)
Forest Edge	E	10' N of Tree #10879	Snag (No Wildlife Feature)
Forest Edge	E	10' SE of Tree #10799	Snag (No Wildlife Feature)
Forest Edge	E	20' E of Tree #11943	Snag (No Wildlife Feature)
Forest Edge	E	t35028	Snag (No Wildlife Feature)
Forest Edge	E	t35032	Snag (No Wildlife Feature)
Forest Edge	E	t35149	Snag (No Wildlife Feature)
Forest Edge	E	t35175	Snag (No Wildlife Feature)
Forest Edge	E	t35173	Snag (No Wildlife Feature)
Forest Edge	E	t36525	Snag (No Wildlife Feature)
Forest Edge	E	5' SW of Tree #35218	Snag (No Wildlife Feature)
Forest Edge	E	Adjacent to Tree #36577	Snag (No Wildlife Feature)
Forest Edge	N/A	t11495	Deer Tracks, Blue Jay
Forest Edge	N/A	25' NW of Tree #11329	Yellow-bellied Sapsucker
Forest Edge		t35115	Bat Box Attached
Wiehle	A1	t13144	Stick Nest
Wiehle	A1	t16388	Stick Nest
Wiehle	A1	t16538	Stick Nest
Wiehle	A1	t16716	Stick Nest
Wiehle	A1	40' E of Tree #16664	Stick Nest
Wiehle	A1	40' NE of Tree #13006	Stick Nest
Wiehle	A2	t13162	Leafy Nest (Squirrel Nest)
Wiehle	A2	t13179	Leafy Nest (Squirrel Nest)
Wiehle	A2	t13237	Leafy Nest (Squirrel Nest)
Wiehle	A2	t13331	Leafy Nest (Squirrel Nest)
Wiehle	A2	t13473	Leafy Nest (Squirrel Nest)
Wiehle	A2	t16304	Leafy Nest (Squirrel Nest)
Wiehle	A2	t16369	Leafy Nest (Squirrel Nest)
Wiehle	A2	t16947	Leafy Nest (Squirrel Nest)
Wiehle	A2	20' SW of Tree #13284	Leafy Nest (Squirrel Nest)
Wiehle	A2	60' SW of Tree #13285	Leafy Nest (Squirrel Nest)
Wiehle	A2	20' SW of Tree #17020	Leafy Nest (Squirrel Nest)
Wiehle	A2	50' E of Tree #16568	Leafy Nest (Squirrel Nest)
Wiehle	A2	52' E of Tree #16568	Leafy Nest (Squirrel Nest)
Wiehle	A2/B2	t13140	Leafy Nest (Squirrel Nest)/Cavity in a Live Tree
Wiehle	A3	12' NE of Tree #17277	Song Bird Nest
Wiehle	B1	t13253	Cavity in a Snag
Wiehle	B1	t13264	Cavity in a Snag
Wiehle	B1	t13460	Cavity in a Snag
Wiehle	B1	t13480	Cavity in a Snag
Wiehle	B1	t15945	Cavity in a Snag
Wiehle	B1	t15977	Cavity in a Snag
Wiehle	B1	t15980	Cavity in a Snag

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Wiehle	B1	t16854	Cavity in a Snag
Wiehle	B1	t16906	Cavity in a Snag
Wiehle	B1	t17130	Cavity in a Snag
Wiehle	B1	t17337	Cavity in a Snag
Wiehle	B2	t13013	Cavity in a Live Tree
Wiehle	B2	t13112	Cavity in a Live Tree
Wiehle	B2	t13120	Cavity in a Live Tree
Wiehle	B2	t13132	Cavity in a Live Tree
Wiehle	B2	t13133	Cavity in a Live Tree
Wiehle	B2	t13159	Cavity in a Live Tree
Wiehle	B2	t13168	Cavity in a Live Tree
Wiehle	B2	t13173	Cavity in a Live Tree
Wiehle	B2	t13199	Cavity in a Live Tree
Wiehle	B2	t13450	Cavity in a Live Tree
Wiehle	B2	t13989	Cavity in a Live Tree
Wiehle	B2	t15938	Cavity in a Live Tree
Wiehle	B2	t15984	Cavity in a Live Tree
Wiehle	B2	t16303	Cavity in a Live Tree
Wiehle	B2	t16345	Cavity in a Live Tree
Wiehle	B2	t16370	Cavity in a Live Tree
Wiehle	B2	t16375	Cavity in a Live Tree
Wiehle	B2	t16509	Cavity in a Live Tree
Wiehle	B2	t16841	Cavity in a Live Tree
Wiehle	B2	t17146	Cavity in a Live Tree
Wiehle	B2	t17153	Cavity in a Live Tree
Wiehle	B2	t17209	Cavity in a Live Tree
Wiehle	B2	t17261	Cavity in a Live Tree
Wiehle	B2	10' W of Tree #13277	Cavity in a Live Tree
Wiehle	B2	13' SW of Tree #13396	Cavity in a Live Tree
Wiehle	B2	40' N of Tree #13080	Cavity in a Live Tree
Wiehle	B2	40' N of Tree #13086	Cavity in a Live Tree
Wiehle	C1	Adjacent to t13484	Den in Deadfall
Wiehle	C1	t13955	Den in Deadfall
Wiehle	C1	13' N of Tree #13489	Den in Deadfall
Wiehle	C1	15' N of Tree #13097	Den in Deadfall
Wiehle	C1	5' S of Tree #13104	Den in Deadfall
Wiehle	C1	20' N of Tree #12981	Den in Deadfall
Wiehle	C2	t15805	Den in a Tree Hollow
Wiehle	C2	t15809	Den in a Tree Hollow
Wiehle	C2	t15816	Den in a Tree Hollow
Wiehle	C2	t15997	Den in a Tree Hollow
Wiehle	C2	t16695	Den in a Tree Hollow
Wiehle	C2	t17112	Den in a Tree Hollow
Wiehle	C2	t17350	Den in a Tree Hollow
Wiehle	C2	30' E of Tree #13975	Den in a Tree Hollow
Wiehle	C3	Near Tree #13030	Den in a Ground Hollow
Wiehle	C3	Near Tree #13031	Den in a Ground Hollow
Wiehle	C3	Adjacent t16757	Den in a Ground Hollow
Wiehle	C3	Adjacent t17046	Den in a Ground Hollow
Wiehle	C3	Adjacent t17086	Den in a Ground Hollow
Wiehle	C3	10' N of Tree #13474	Den in a Ground Hollow
Wiehle	C3	10' SW of Tree #13496	Den in a Ground Hollow
Wiehle	C3	50' W of Tree #17004	Den in a Ground Hollow
Wiehle	C3	10' S of Tree #17254	Den in a Ground Hollow
Wiehle	C3	20' E of Tree #16590	Den in a Ground Hollow
Wiehle	D1	t13451	Inactive Subsurface Erosional Feature

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Wiehle	D1	Adjacent t16662	Inactive Subsurface Erosional Feature
Wiehle	D2	Adjacent t15798	Active Subsurface Erosional Feature
Wiehle	E	t13137	Snag (No Wildlife Feature)
Wiehle	E	t13238	Snag (No Wildlife Feature)
Wiehle	E	t13484	Snag (No Wildlife Feature)
Wiehle	E	t13914	Snag (No Wildlife Feature)
Wiehle	E	t13921	Snag (No Wildlife Feature)
Wiehle	E	t15806	Snag (No Wildlife Feature)
Wiehle	E	t16404	Snag (No Wildlife Feature)
Wiehle	E	Adjacent t16442	Snag (No Wildlife Feature)
Wiehle	E	t16467	Snag (No Wildlife Feature)
Wiehle	E	t16569	Snag (No Wildlife Feature)
Wiehle	E	t16663	Snag (No Wildlife Feature)
Wiehle	E	t16731	Snag (No Wildlife Feature)
Wiehle	E	t16731	Snag (No Wildlife Feature)
Wiehle	E	t16737	Snag (No Wildlife Feature)
Wiehle	E	t16738	Snag (No Wildlife Feature)
Wiehle	E	t16834	Snag (No Wildlife Feature)
Wiehle	E	t16860	Snag (No Wildlife Feature)
Wiehle	E	t16884	Snag (No Wildlife Feature)
Wiehle	E	t17011	Snag (No Wildlife Feature)
Wiehle	E	t17059	Snag (No Wildlife Feature)
Wiehle	E	t17086	Snag (No Wildlife Feature)
Wiehle	E	t17100	Snag (No Wildlife Feature)
Wiehle	E	t17108	Snag (No Wildlife Feature)
Wiehle	E	t17111	Snag (No Wildlife Feature)
Wiehle	E	t17143	Snag (No Wildlife Feature)
Wiehle	E	t17144	Snag (No Wildlife Feature)
Wiehle	E	t17151	Snag (No Wildlife Feature)
Wiehle	E	t17165	Snag (No Wildlife Feature)
Wiehle	E	t17206	Snag (No Wildlife Feature)
Wiehle	E	t17295	Snag (No Wildlife Feature)
Wiehle	E	8' N of Tree #13293	Snag (No Wildlife Feature)
Wiehle	E	10' SE of Tree #13300	Snag (No Wildlife Feature)
Wiehle	E	20' W of Tree #13277	Snag (No Wildlife Feature)
Wiehle	E	20' S of Tree #17161	Snag (No Wildlife Feature)
Wiehle	E	2' N of Tree #16906	Snag (No Wildlife Feature)
Wiehle	E	15' NE of Tree 13049	Snag (No Wildlife Feature)
Wiehle	E	15' NE of Tree 13058	Snag (No Wildlife Feature)
Wiehle	E	20' NE of Tree #13144	Snag (No Wildlife Feature)
Wiehle	E	10' NE of Tree #15950	Snag (No Wildlife Feature)
Wiehle	E	10' E of Tree #15950	Snag (No Wildlife Feature)
Wiehle	F	Vernal Pool in topographic depression	Vernal Pool
Lake Anne	A2	t28414	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28418	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28452	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28453	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28529	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28827	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28859	Leafy Nest (Squirrel Nest)
Lake Anne	A2	12' NW of Tree #28804	Leafy Nest (Squirrel Nest)
Lake Anne	A3	t38537	Leafy Nest (Squirrel Nest)
Lake Anne	A4	t38539	Leafy Nest (Squirrel Nest)
Lake Anne	A5	t38553	Leafy Nest (Squirrel Nest)
Lake Anne	A6	t38563	Leafy Nest (Squirrel Nest)
Lake Anne	A2/B2	t28762	Leafy Nest (Squirrel Nest)/Cavity in a Live Tree

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Lake Anne	A3	t28604	Song Bird Nest
Lake Anne	A3	t28889	Song Bird Nest
Lake Anne	A3	10' SE of Tree #28603	Song Bird Nest
Lake Anne	B1	Adjacent to Tree #28402	Cavity in a Snag
Lake Anne	B1	t28488	Cavity in a Snag
Lake Anne	B1	10' S of Tree # 28614	Cavity in a Snag
Lake Anne	B1	15' E of Tree #28529	Cavity in a Snag
Lake Anne	B2	t28365	Cavity in a Live Tree
Lake Anne	B2	t28425	Cavity in a Live Tree
Lake Anne	B2	t28441	Cavity in a Live Tree
Lake Anne	B2	t28444	Cavity in a Live Tree
Lake Anne	B2	t28462	Cavity in a Live Tree
Lake Anne	B2	t28578	Cavity in a Live Tree
Lake Anne	B2	t28627	Cavity in a Live Tree
Lake Anne	B2/C2	t28536	Cavity in a Live Tree/Den in a Tree Hollow
Lake Anne	B2/C2	40' W of Tree #28637	Cavity in a Live Tree/Den in a Tree Hollow
Lake Anne	C1	Adjacent to Tree #28545	Den in Deadfall
Lake Anne	C1	5' N of Tree #28706	Den in Deadfall
Lake Anne	C1	10' S of Tree #28679	Den in Deadfall
Lake Anne	C2	t28505	Den in a Tree Hollow
Lake Anne	C2	t28725	Den in a Tree Hollow
Lake Anne	C2	t28749	Den in a Tree Hollow
Lake Anne	C2	t28753	Den in a Tree Hollow
Lake Anne	C2	t28755	Den in a Tree Hollow
Lake Anne	C2	t28810	Den in a Tree Hollow
Lake Anne	C2	t28822	Den in a Tree Hollow
Lake Anne	C2	t28840	Den in a Tree Hollow
Lake Anne	E	t28364	Snag (No Wildlife Feature)
Lake Anne	E	t28374	Snag (No Wildlife Feature)
Lake Anne	E	t28400	Snag (No Wildlife Feature)
Lake Anne	E	t28400	Snag (No Wildlife Feature)
Lake Anne	E	t28417	Snag (No Wildlife Feature)
Lake Anne	E	t28432	Snag (No Wildlife Feature)
Lake Anne	E	t28471	Snag (No Wildlife Feature)
Lake Anne	E	t28562	Snag (No Wildlife Feature)
Lake Anne	E	t28643	Snag (No Wildlife Feature)
Lake Anne	E	t28666	Snag (No Wildlife Feature)
Lake Anne	E	t28700	Snag (No Wildlife Feature)
Lake Anne	E	t28743	Snag (No Wildlife Feature)
Lake Anne	E	t28792	Snag (No Wildlife Feature)
Lake Anne	E	t28799	Snag (No Wildlife Feature)
Lake Anne	E	t28808	Snag (No Wildlife Feature)
Lake Anne	E	t28850	Snag (No Wildlife Feature)
Lake Anne	E	t28858	Snag (No Wildlife Feature)
Lake Anne	E	t28864	Snag (No Wildlife Feature)
Lake Anne	E	t28868	Snag (No Wildlife Feature)
Lake Anne	E	t28869	Snag (No Wildlife Feature)
Lake Anne	E	t28877	Snag (No Wildlife Feature)
Lake Anne	E	t38563	Snag (No Wildlife Feature)
Lake Anne	E	5' SE of Tree #28562	Snag (No Wildlife Feature)
Lake Anne	E	10' SW of Tree #28532	Snag (No Wildlife Feature)
Lake Anne	E	10' NE of Tree #28875	Snag (No Wildlife Feature)
Lake Anne	E	5' NW of Tree #28866	Snag (No Wildlife Feature)
Lake Anne	E	5' SE of Tree #28859	Snag (No Wildlife Feature)
Lake Anne	E	10' E of Tree #28721	Snag (No Wildlife Feature)
Lake Anne	E	40' SW of Tree #28637	Snag (No Wildlife Feature)

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Lake Anne	E	45' W of Tree #28637	Snag (No Wildlife Feature)
Baron Cameron Park	A1	t17706	Stick Nest
Baron Cameron Park	A1	t17740	Stick Nest
Baron Cameron Park	A1	t27297	Stick Nest
Baron Cameron Park	A2	t17944	Leafy Nest (Squirrel Nest)
Baron Cameron Park	A2	t17952	Leafy Nest (Squirrel Nest)
Baron Cameron Park	A2	t17965	Leafy Nest (Squirrel Nest)
Baron Cameron Park	A3	t17390	Song Bird Nest
Baron Cameron Park	B1	t17414	Cavity in a Snag
Baron Cameron Park	B1	t17783	Cavity in a Snag
Baron Cameron Park	B1	t27233	Cavity in a Snag
Baron Cameron Park	B1	t27315	Cavity in a Snag
Baron Cameron Park	B1	Adjacent to Tree #17825	Cavity in a Snag
Baron Cameron Park	B2	t17412	Cavity in a Live Tree
Baron Cameron Park	B2	t17453	Cavity in a Live Tree
Baron Cameron Park	B2	t17510	Cavity in a Live Tree
Baron Cameron Park	B2	t17600	Cavity in a Live Tree
Baron Cameron Park	B2	t17818	Cavity in a Live Tree
Baron Cameron Park	B2	t17870	Cavity in a Live Tree
Baron Cameron Park	C1	10' S of Tree #17740	Den in Deadfall
Baron Cameron Park	C2	t17562	Den in a Tree Hollow
Baron Cameron Park	C2	t27224	Den in a Tree Hollow
Baron Cameron Park	C2	t27250	Den in a Tree Hollow
Baron Cameron Park	C2	t27256	Den in a Tree Hollow
Baron Cameron Park	C2	t27298	Den in a Tree Hollow
Baron Cameron Park	C2	t27318	Den in a Tree Hollow
Baron Cameron Park	C2	t27325	Den in a Tree Hollow
Baron Cameron Park	D2	t17434	Active Subsurface Erosional Feature
Baron Cameron Park	D2	t17518	Active Subsurface Erosional Feature
Baron Cameron Park	D2	t27226	Active Subsurface Erosional Feature
Baron Cameron Park	D2	t27246	Active Subsurface Erosional Feature
Baron Cameron Park	E	t17863	Snag (No Wildlife Feature)
Baron Cameron Park	E	t17925	Snag (No Wildlife Feature)
Baron Cameron Park	E	Adjacent to Tree #17724	Snag (No Wildlife Feature)
Baron Cameron Park	E	10' N of Tree #17722	Snag (No Wildlife Feature)
Baron Cameron Park	F	t27296	Vernal Pool
Lake Newport	A1	t27693	Stick Nest
Lake Newport	A1	t27822	Stick Nest
Lake Newport	A1	t28032	Stick Nest
Lake Newport	A1	6' E of Tree #27817	Stick Nest
Lake Newport	A1	25' SE of Tree #27887	Stick Nest
Lake Newport	A1	8' NW of Tree #28162	Stick Nest
Lake Newport	A1	50' W of Tree #28162	Stick Nest
Lake Newport	A2	t27792	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t28023	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t28062	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t28137	Leafy Nest (Squirrel Nest)
Lake Newport	A2	15' W of Tree #28009	Leafy Nest (Squirrel Nest)
Lake Newport	A2	20' NW of Tree #27983	Leafy Nest (Squirrel Nest)
Lake Newport	A2	15' NE of Tree #27949	Leafy Nest (Squirrel Nest)
Lake Newport	A3	4' W of Tree #28169	Song Bird Nest
Lake Newport	B1	t27761	Cavity in a Snag
Lake Newport	B1	t27796	Cavity in a Snag
Lake Newport	B1	t27924	Cavity in a Snag
Lake Newport	B1	t28159	Cavity in a Snag
Lake Newport	B1	8' NW of Tree #28051	Cavity in a Snag

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Lake Newport	B1	6' SE of Tree #27918	Cavity in a Snag
Lake Newport	B1	3' NE of Tree #27893	Cavity in a Snag
Lake Newport	B1	75' NW of Tree #28162	Cavity in a Snag
Lake Newport	B2	t27737	Cavity in a Live Tree
Lake Newport	B2	t27753	Cavity in a Live Tree
Lake Newport	B2	t28005	Cavity in a Live Tree
Lake Newport	B2	t28108	Cavity in a Live Tree
Lake Newport	B2	t28160	Cavity in a Live Tree
Lake Newport	B2	45' NE of Tree #28045	Cavity in a Live Tree
Lake Newport	B2	12' S of Tree #27893	Cavity in a Live Tree
Lake Newport	C2	t27701	Den in a Tree Hollow
Lake Newport	C2	t27838	Den in a Tree Hollow
Lake Newport	C2	t28027	Den in a Tree Hollow
Lake Newport	C2	t28045	Den in a Tree Hollow
Lake Newport	C2	t28046	Den in a Tree Hollow
Lake Newport	C2	15' NW of Tree #28084	Den in a Tree Hollow
Lake Newport	C2	10' W of Tree #28073	Den in a Tree Hollow
Lake Newport	E	t27689	Snag (No Wildlife Feature)
Lake Newport	E	t27692	Snag (No Wildlife Feature)
Lake Newport	E	t27835	Snag (No Wildlife Feature)
Lake Newport	E	t27906	Snag (No Wildlife Feature)
Lake Newport	E	t27907	Snag (No Wildlife Feature)
Lake Newport	E	t27908	Snag (No Wildlife Feature)
Lake Newport	E	t27929	Snag (No Wildlife Feature)
Lake Newport	E	t27991	Snag (No Wildlife Feature)
Lake Newport	E	t28051	Snag (No Wildlife Feature)
Lake Newport	E	t28052	Snag (No Wildlife Feature)
Lake Newport	E	5' S of Tree #28052	Snag (No Wildlife Feature)
Lake Newport	E	5' NE of Tree #27897	Snag (No Wildlife Feature)
Lake Newport	E	6' SE of Tree #27894	Snag (No Wildlife Feature)
Lake Newport	E	30' NE of Tree #27989	Snag (No Wildlife Feature)
Lake Newport	A1/A2	60' NE of Tree #27599	Stick Nest/Leafy Nest (Squirrel Nest)
Lake Newport	A2	20' N of Tree #27595	Leafy Nest (Squirrel Nest)
Lake Newport	B1	10' SE of Tree #27582	Cavity in a Snag
Lake Newport	B1	30' NE of Tree #27599	Cavity in a Snag
Lake Newport	B1	1' N of Tree #27351	Cavity in a Snag
Lake Newport	B2	t27579	Cavity in a Live Tree
Lake Newport	B2	10' NW of Tree #27347	Cavity in a Live Tree
Lake Newport	C1	2' S of Tree #27466	Den in Deadfall
Lake Newport	C2	8' E of Tree #27584	Den in a Tree Hollow
Lake Newport	E	t27389	Snag (No Wildlife Feature)
Lake Newport	E	t27420	Snag (No Wildlife Feature)
Lake Newport	E	t27504	Snag (No Wildlife Feature)
Lake Newport	E	t27515	Snag (No Wildlife Feature)
Lake Newport	E	t27530	Snag (No Wildlife Feature)
Lake Newport	E	t27584	Snag (No Wildlife Feature)
Lake Newport	E	8' SW of Tree #27470	Snag (No Wildlife Feature)
Lake Newport	E	15' SE of Tree #27489	Snag (No Wildlife Feature)
Lake Newport	E	20' NE of Tree #27584	Snag (No Wildlife Feature)
Bennington Woods	A1	t18788	Stick Nest
Bennington Woods	A1	t19608	Stick Nest
Bennington Woods	A1	t19698	Stick Nest
Bennington Woods	A1	t19761	Stick Nest
Bennington Woods	A1/A2	30' SW of Tree #19013	Stick Nest/Leafy Nest (Squirrel Nest)
Bennington Woods	A2	t18811	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	t19202	Leafy Nest (Squirrel Nest)

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Bennington Woods	A2	t19377	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	t19620	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	40' SE of Tree #19781	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	4' W of Tree #19442	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	30' SW of Tree #19661	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	40' W of Tree #26026	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	45' W of Tree #26026	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	60' E of Tree #19554	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	15' N of Tree #19202	Leafy Nest (Squirrel Nest)
Bennington Woods	A2	8' W of Tree #18766	Leafy Nest (Squirrel Nest)
Bennington Woods	A3	t18795	Song Bird Nest
Bennington Woods	B1	t18887	Cavity in a Snag
Bennington Woods	B1	t18963	Cavity in a Snag
Bennington Woods	B1	t19132	Cavity in a Snag
Bennington Woods	B1	t19484	Cavity in a Snag
Bennington Woods	B1	t19573	Cavity in a Snag
Bennington Woods	B1	20' NE of Tree #19609	Cavity in a Snag
Bennington Woods	B1	45' SE of Tree #19101	Cavity in a Snag
Bennington Woods	B1	40' NE of Tree #19101	Cavity in a Snag
Bennington Woods	B1	10' N of Tree #19200	Cavity in a Snag
Bennington Woods	B1	30' NE of Tree #19247	Cavity in a Snag
Bennington Woods	B1	30' E of 19275	Cavity in a Snag
Bennington Woods	B1	30' S of Tree #19279	Cavity in a Snag
Bennington Woods	B1	75' E of Tree #19084	Cavity in a Snag
Bennington Woods	B1/C2	t19133	Cavity in a Snag/Den in a Tree Hollow
Bennington Woods	B1/C2	10' SE of Tree #19554	Cavity in a Snag/Den in a Tree Hollow
Bennington Woods	B1/C2	25' E of Tree 19588	Cavity in a Snag/Den in a Tree Hollow
Bennington Woods	B2	t18845	Cavity in a Live Tree
Bennington Woods	B2	t18879	Cavity in a Live Tree
Bennington Woods	B2	t19002	Cavity in a Live Tree
Bennington Woods	B2	t19013	Cavity in a Live Tree
Bennington Woods	B2	t19189	Cavity in a Live Tree
Bennington Woods	B2	t19196	Cavity in a Live Tree
Bennington Woods	B2	t19240	Cavity in a Live Tree
Bennington Woods	B2	t19282	Cavity in a Live Tree
Bennington Woods	B2	t19432	Cavity in a Live Tree
Bennington Woods	B2	t19485	Cavity in a Live Tree
Bennington Woods	B2	t19548	Cavity in a Live Tree
Bennington Woods	B2	t19572	Cavity in a Live Tree
Bennington Woods	B2	t19580	Cavity in a Live Tree
Bennington Woods	B2	t19678	Cavity in a Live Tree
Bennington Woods	B2	t19705	Cavity in a Live Tree
Bennington Woods	B2	t19773	Cavity in a Live Tree
Bennington Woods	B2	t19888	Cavity in a Live Tree
Bennington Woods	B2	t19975	Cavity in a Live Tree
Bennington Woods	B2	15' SW of Tree #19916	Cavity in a Live Tree
Bennington Woods	B2	40' W of Tree #19665	Cavity in a Live Tree
Bennington Woods	B2	35' NE of Tree #19604	Cavity in a Live Tree
Bennington Woods	B2	25' SE of Tree #19554	Cavity in a Live Tree
Bennington Woods	B2	15' N of Tree #19166	Cavity in a Live Tree
Bennington Woods	B2	15' NE of Tree #19173	Cavity in a Live Tree
Bennington Woods	B2	20' NE of Tree #19235	Cavity in a Live Tree
Bennington Woods	B2	15' NE of Tree #19266	Cavity in a Live Tree
Bennington Woods	B2	20' NE of Tree #19276	Cavity in a Live Tree
Bennington Woods	B2	20' N of Tree #19456	Cavity in a Live Tree
Bennington Woods	B2/C2	t18838	Cavity in a Live Tree/Den in a Tree Hollow

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Bennington Woods	B2/C2	t19742	Cavity in a Live Tree/Den in a Tree Hollow
Bennington Woods	B2/C2	t19763	Cavity in a Live Tree/Den in a Tree Hollow
Bennington Woods	B2/C2	25' E of Tree #19564	Cavity in a Live Tree/Den in a Tree Hollow
Bennington Woods	C1	3' NW of Tree #19680	Den in Deadfall
Bennington Woods	C1	3' NE of Tree #19014	Den in Deadfall
Bennington Woods	C1	35' NE of Tree #19247	Den in Deadfall
Bennington Woods	C1	15' E of Tree #19297	Den in Deadfall
Bennington Woods	C2	t18790	Den in a Tree Hollow
Bennington Woods	C2	t18881	Den in a Tree Hollow
Bennington Woods	C2	t18893	Den in a Tree Hollow
Bennington Woods	C2	t19125	Den in a Tree Hollow
Bennington Woods	C2	t19139	Den in a Tree Hollow
Bennington Woods	C2	t19153	Den in a Tree Hollow
Bennington Woods	C2	t19262	Den in a Tree Hollow
Bennington Woods	C2	t19606	Den in a Tree Hollow
Bennington Woods	C2	t19623	Den in a Tree Hollow
Bennington Woods	C2	t19700	Den in a Tree Hollow
Bennington Woods	C2	t19703	Den in a Tree Hollow
Bennington Woods	C2	t19707	Den in a Tree Hollow
Bennington Woods	C2	30' W of Tree #26027	Den in a Tree Hollow
Bennington Woods	C2	15' NE of Tree #19103	Den in a Tree Hollow
Bennington Woods	C2	25' NE of Tree #19203	Den in a Tree Hollow
Bennington Woods	C3	t19967	Den in a Ground Hollow
Bennington Woods	C3	1' S of Tree #19683	Den in a Ground Hollow
Bennington Woods	C3	12' W of Tree #19608	Den in a Ground Hollow
Bennington Woods	C3	25' E of Tree #19564	Den in a Ground Hollow
Bennington Woods	E	t18781	Snag (No Wildlife Feature)
Bennington Woods	E	t18839	Snag (No Wildlife Feature)
Bennington Woods	E	t18937	Snag (No Wildlife Feature)
Bennington Woods	E	t18950	Snag (No Wildlife Feature)
Bennington Woods	E	t18976	Snag (No Wildlife Feature)
Bennington Woods	E	t19159	Snag (No Wildlife Feature)
Bennington Woods	E	t19203	Snag (No Wildlife Feature)
Bennington Woods	E	t19204	Snag (No Wildlife Feature)
Bennington Woods	E	t19214	Snag (No Wildlife Feature)
Bennington Woods	E	t19236	Snag (No Wildlife Feature)
Bennington Woods	E	t19295	Snag (No Wildlife Feature)
Bennington Woods	E	t19312	Snag (No Wildlife Feature)
Bennington Woods	E	t19321	Snag (No Wildlife Feature)
Bennington Woods	E	t19332	Snag (No Wildlife Feature)
Bennington Woods	E	t19335	Snag (No Wildlife Feature)
Bennington Woods	E	t19339	Snag (No Wildlife Feature)
Bennington Woods	E	t19373	Snag (No Wildlife Feature)
Bennington Woods	E	t19430	Snag (No Wildlife Feature)
Bennington Woods	E	t19497	Snag (No Wildlife Feature)
Bennington Woods	E	t19519	Snag (No Wildlife Feature)
Bennington Woods	E	t19547	Snag (No Wildlife Feature)
Bennington Woods	E	t19574	Snag (No Wildlife Feature)
Bennington Woods	E	t19596	Snag (No Wildlife Feature)
Bennington Woods	E	t19683	Snag (No Wildlife Feature)
Bennington Woods	E	t19688	Snag (No Wildlife Feature)
Bennington Woods	E	t19810	Snag (No Wildlife Feature)
Bennington Woods	E	t19969	Snag (No Wildlife Feature)
Bennington Woods	E	t19970	Snag (No Wildlife Feature)
Bennington Woods	E	4' SE of Tree #19966	Snag (No Wildlife Feature)
Bennington Woods	E	6' SW of Tree #19943	Snag (No Wildlife Feature)

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Bennington Woods	E	6' NE of Tree #26004	Snag (No Wildlife Feature)
Bennington Woods	E	40' NE of Tree #26004	Snag (No Wildlife Feature)
Bennington Woods	E	30' NE of Tree #19572	Snag (No Wildlife Feature)
Bennington Woods	E	5' NE of Tree #19036	Snag (No Wildlife Feature)
Bennington Woods	E	20' NE of Tree #19159	Snag (No Wildlife Feature)
Bennington Woods	E	10' E of Tree #19203	Snag (No Wildlife Feature)
Bennington Woods	E	3' SE of Tree #18957	Snag (No Wildlife Feature)
Bennington Woods	E	15' NE of Tree #19208	Snag (No Wildlife Feature)
Bennington Woods	E	4' S of Tree #19289	Snag (No Wildlife Feature)
Bennington Woods	E	5' NW of Tree #19335	Snag (No Wildlife Feature)
Bennington Woods	E	4' N of Tree #19335	Snag (No Wildlife Feature)
Bennington Woods	E	8' E of Tree #18864	Snag (No Wildlife Feature)
Bennington Woods	E	6' NE of Tree #19332	Snag (No Wildlife Feature)
Bennington Woods	E	6' NW of Tree #18847	Snag (No Wildlife Feature)
Bennington Woods	E	4' N of Tree #19364	Snag (No Wildlife Feature)
Bennington Woods	E	10' NE of Tree #19406	Snag (No Wildlife Feature)
Bennington Woods	E	30' E of Tree #19698	Snag (No Wildlife Feature)
Vantage Hill	A1	t26639	Stick Nest
Vantage Hill	A1	t26979	Stick Nest
Vantage Hill	A1	t26984	Stick Nest
Vantage Hill	A1	20' SW of Tree #27191	Stick Nest
Vantage Hill	A1	40' S of Tree #26442	Stick Nest
Vantage Hill	A1/B1/C2	15' NW of Tree #26535	Stick Nest/Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	A1/C2	t26561	Stick Nest/Den in a Tree Hollow
Vantage Hill	A2	t26052	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	t26221	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	t26769	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	t27129	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	t27169	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	t27174	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	75' S of Tree #26442	Leafy Nest (Squirrel Nest)
Vantage Hill	A2	20' NW of Tree #26580	Leafy Nest (Squirrel Nest)
Vantage Hill	A3	60' NE of Tree #26153	Song Bird Nest
Vantage Hill	A3/B2	10' NW of Tree #27136	Song Bird Nest/Cavity in a Live Tree
Vantage Hill	A3/C2	t26405	Song Bird Nest/Den in a Tree Hollow
Vantage Hill	B1	t26344	Cavity in a Snag
Vantage Hill	B1	t26446	Cavity in a Snag
Vantage Hill	B1	t26463	Cavity in a Snag
Vantage Hill	B1	t26950	Cavity in a Snag
Vantage Hill	B1	20' NW of Tree #26359	Cavity in a Snag
Vantage Hill	B1	t26634	Cavity in a Snag
Vantage Hill	B1/B2/C2	t26457	Cavity in a Snag/Cavity in a Live Tree/Den in a Tree Hollow
Vantage Hill	B1/C2	15' NW of Tree #26533	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	B2	t26149	Cavity in a Live Tree
Vantage Hill	B2	t26343	Cavity in a Live Tree
Vantage Hill	B2	t26360	Cavity in a Live Tree
Vantage Hill	B2	t26394	Cavity in a Live Tree
Vantage Hill	B2	t26592	Cavity in a Live Tree
Vantage Hill	B2	t26593	Cavity in a Live Tree
Vantage Hill	B2	t26885	Cavity in a Live Tree
Vantage Hill	B2	t26925	Cavity in a Live Tree
Vantage Hill	B2	50' W of Tree #27190	Cavity in a Live Tree
Vantage Hill	B2	20' W of Tree #27007	Cavity in a Live Tree
Vantage Hill	B2	20' NE of Tree #26942	Cavity in a Live Tree
Vantage Hill	B2/C2	t26119	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	B2/C2	t26371	Cavity in a Snag/Den in a Tree Hollow

EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Vantage Hill	B2/C2	t26465	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	B2/C2	t26591	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	B2/C2	t27122	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	B2/C2	t27189	Cavity in a Snag/Den in a Tree Hollow
Vantage Hill	C1	Behind Tree t26319	Den in Deadfall
Vantage Hill	C1	Behind Tree t26333	Den in Deadfall
Vantage Hill	C1	5' NW of Tree #26332	Den in Deadfall
Vantage Hill	C1	6' SW of Tree #26743	Den in Deadfall
Vantage Hill	C2	t26116	Den in a Tree Hollow
Vantage Hill	C2	t26246	Den in a Tree Hollow
Vantage Hill	C2	t26285	Den in a Tree Hollow
Vantage Hill	C2	t26402	Den in a Tree Hollow
Vantage Hill	C2	t26434	Den in a Tree Hollow
Vantage Hill	C2	t26522	Den in a Tree Hollow
Vantage Hill	C2	t26552	Den in a Tree Hollow
Vantage Hill	C2	t26661	Den in a Tree Hollow
Vantage Hill	C2	t27172	Den in a Tree Hollow
Vantage Hill	C2	50' NW of Tree #26540	Den in a Tree Hollow
Vantage Hill	C3	Next to Tree t26855	Den in a Ground Hollow
Vantage Hill	E	t26108	Snag (No Wildlife Feature)
Vantage Hill	E	t26281	Snag (No Wildlife Feature)
Vantage Hill	E	t26332	Snag (No Wildlife Feature)
Vantage Hill	E	t26379	Snag (No Wildlife Feature)
Vantage Hill	E	t26565	Snag (No Wildlife Feature)
Vantage Hill	E	t26608	Snag (No Wildlife Feature)
Vantage Hill	E	t26638	Snag (No Wildlife Feature)
Vantage Hill	E	t26710	Snag (No Wildlife Feature)
Vantage Hill	E	t26742	Snag (No Wildlife Feature)
Vantage Hill	E	t26748	Snag (No Wildlife Feature)
Vantage Hill	E	t26802	Snag (No Wildlife Feature)
Vantage Hill	E	t26865	Snag (No Wildlife Feature)
Vantage Hill	E	t26914	Snag (No Wildlife Feature)
Vantage Hill	E	t26933	Snag (No Wildlife Feature)
Vantage Hill	E	t26934	Snag (No Wildlife Feature)
Vantage Hill	E	t27155	Snag (No Wildlife Feature)
Vantage Hill	E	t27193	Snag (No Wildlife Feature)
Vantage Hill	E	5' SW of Tree #27147	Snag (No Wildlife Feature)
Vantage Hill	E	20' NW of Tree #27122	Snag (No Wildlife Feature)
Vantage Hill	E	2' SE of Tree #26451	Snag (No Wildlife Feature)
Vantage Hill	F	10' N of Tree #26281	Vernal Pool
Lake Anne	A2	t28226	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28249	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28250	Leafy Nest (Squirrel Nest)
Lake Anne	A2	t28264	Leafy Nest (Squirrel Nest)
Lake Anne	A2	40' SE of Tree #28206	Leafy Nest (Squirrel Nest)
Lake Anne	A2/A3	60' SE of Tree #28230	Leafy Nest (Squirrel Nest)/Song Bird Nest
Lake Anne	A2/B2	t28272	Leafy Nest (Squirrel Nest)/Cavity in a Live Tree
Lake Anne	A3	t28252	Song Bird Nest
Lake Anne	A3	t28269	Song Bird Nest
Lake Anne	A3/B2	t28275	Song Bird Nest/Cavity in a Live Tree
Lake Anne	B1	t28215	Cavity in a Snag
Lake Anne	B1	t28255	Cavity in a Snag
Lake Anne	B1	t28344	Cavity in a Snag
Lake Anne	B1	40' SE of Tree #28223	Cavity in a Snag
Lake Anne	B1	3' S of Tree #28255	Cavity in a Snag
Lake Anne	B2	t28202	Cavity in a Live Tree

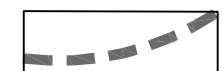

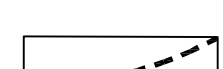
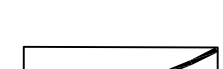
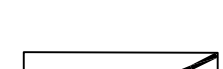
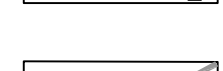







EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Lake Anne	B2	t28284	Cavity in a Live Tree
Lake Anne	C3	10' N of Tree #28328	Den in a Ground Hollow
Lake Anne	E	t28235	Snag (No Wildlife Feature)
Lake Anne	E	t28256	Snag (No Wildlife Feature)
Lake Anne	E	t28257	Snag (No Wildlife Feature)
Lake Anne	E	t28270	Snag (No Wildlife Feature)
Lake Anne	E	40' E of Tree #28270	Snag (No Wildlife Feature)
Lake Anne	E	40' E of Tree #28270	Snag (No Wildlife Feature)
Lake Anne	E	40' NE of Tree #28270	Snag (No Wildlife Feature)
Lake Anne	E	2' E of Tree #28339	Snag (No Wildlife Feature)
Tall Oaks	A1	t18156	Stick Nest
Tall Oaks	A1	t18236	Stick Nest
Tall Oaks	A1	t18484	Stick Nest
Tall Oaks	A1	t18526	Stick Nest
Tall Oaks	A1	15' S of Tree #18690	Stick Nest
Tall Oaks	A2	t18157	Leafy Nest (Squirrel Nest)
Tall Oaks	A2	t18541	Leafy Nest (Squirrel Nest)
Tall Oaks	A2	t18604	Leafy Nest (Squirrel Nest)
Tall Oaks	A2	t18706	Leafy Nest (Squirrel Nest)
Tall Oaks	A2/E	t18223	Leafy Nest (Squirrel Nest)/Snag (No Wildlife Feature)
Tall Oaks	A3	t18137	Song Bird Nest
Tall Oaks	B1	t18224	Cavity in a Snag
Tall Oaks	B1	t18263	Cavity in a Snag
Tall Oaks	B1	t18275	Cavity in a Snag
Tall Oaks	B1	t18348	Cavity in a Snag
Tall Oaks	B1	t18633	Cavity in a Snag
Tall Oaks	B1	5' SW of Tree #18163	Cavity in a Snag
Tall Oaks	B1	20' N of Tree #18132	Cavity in a Snag
Tall Oaks	B1	15' SW of Tree #18685	Cavity in a Snag
Tall Oaks	B1	5' SW of Tree #18646	Cavity in a Snag
Tall Oaks	B1	50' S of Tree #18511	Cavity in a Snag
Tall Oaks	B1	30' SE of Tree #18502	Cavity in a Snag
Tall Oaks	B1	30' SE of Tree #18494	Cavity in a Snag
Tall Oaks	B1	30' S of Tree #18482	Cavity in a Snag
Tall Oaks	B1	10' S of Tree #18480	Cavity in a Snag
Tall Oaks	B2	t18092	Cavity in a Live Tree
Tall Oaks	B2	t18106	Cavity in a Live Tree
Tall Oaks	B2	t18143	Cavity in a Live Tree
Tall Oaks	B2	t18324	Cavity in a Live Tree
Tall Oaks	B2	t18341	Cavity in a Live Tree
Tall Oaks	B2	t18354	Cavity in a Live Tree
Tall Oaks	B2	t18486	Cavity in a Live Tree
Tall Oaks	B2	t18532	Cavity in a Live Tree
Tall Oaks	B2	t18603	Cavity in a Live Tree
Tall Oaks	B2	t18685	Cavity in a Live Tree
Tall Oaks	B2	t18694	Cavity in a Live Tree
Tall Oaks	B2	t18726	Cavity in a Live Tree
Tall Oaks	B2	40' NE of #18335	Cavity in a Live Tree
Tall Oaks	C1	t18320	Den in Deadfall
Tall Oaks	C1	t18487	Den in Deadfall
Tall Oaks	C1	10' W of Tree #18594	Den in Deadfall
Tall Oaks	C1	25' S of Tree #18482	Den in Deadfall
Tall Oaks	C2	t18265	Den in a Tree Hollow
Tall Oaks	C2	t18267	Den in a Tree Hollow
Tall Oaks	C2	t18270	Den in a Tree Hollow
Tall Oaks	C2	t18283	Den in a Tree Hollow

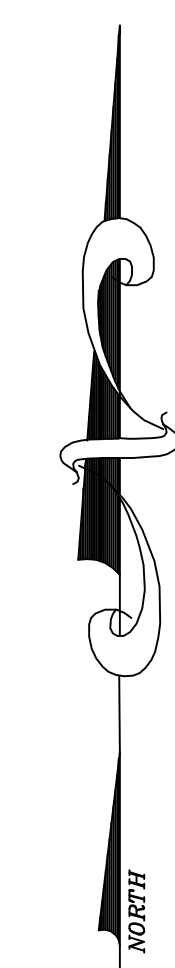
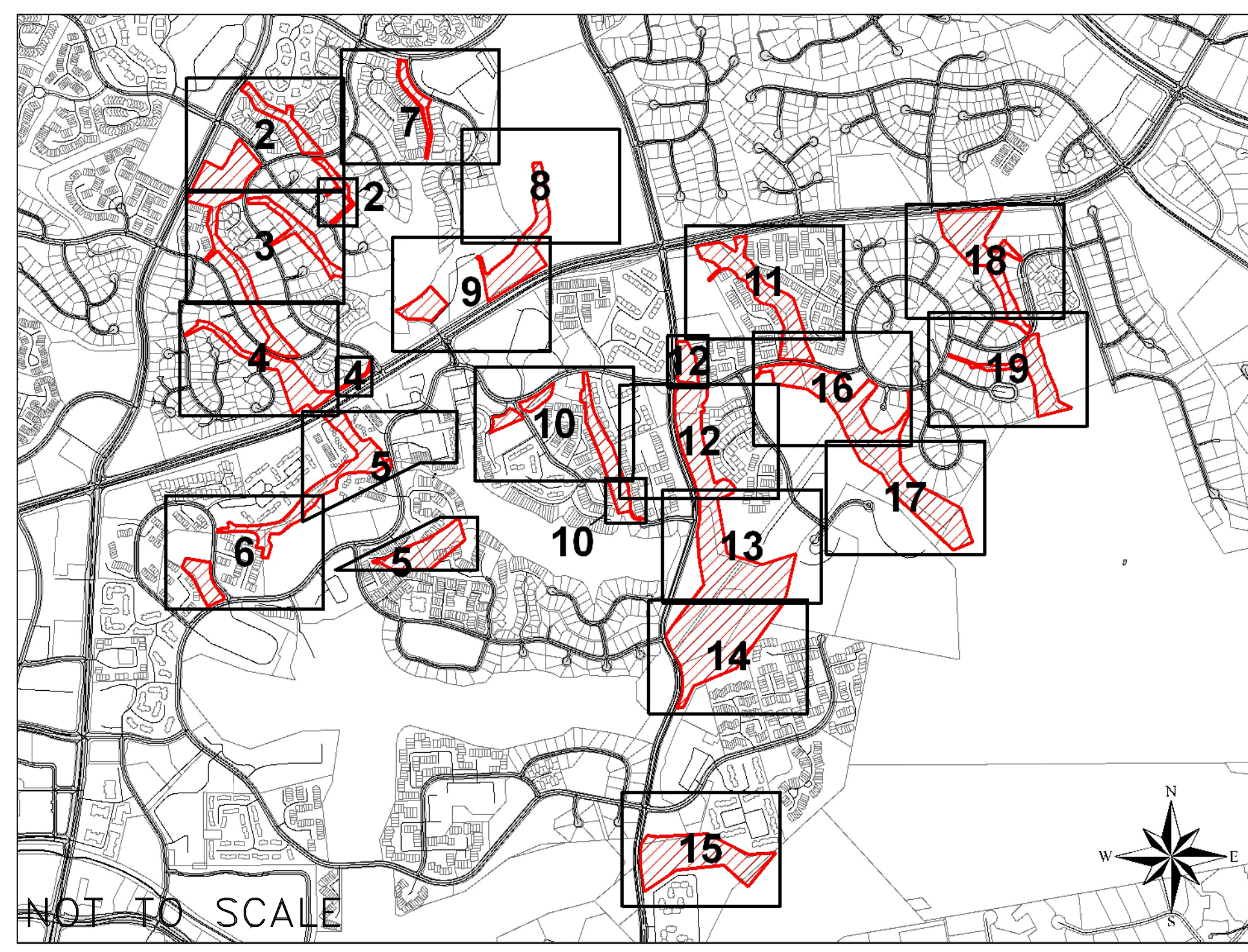
EXHIBIT 5
WILDLIFE HABITAT FEATURES OBSERVED WITHIN STUDY AREA

STUDY AREA	FEATURE	LOCATION	DESCRIPTION
Tall Oaks	C2	t18337	Den in a Tree Hollow
Tall Oaks	C2	t18468	Den in a Tree Hollow
Tall Oaks	C2	t18710	Den in a Tree Hollow
Tall Oaks	C3	10' NW of Tree #18651	Den in a Ground Hollow
Tall Oaks	D1	15' S of Tree #18288	Inactive Subsurface Erosional Feature
Tall Oaks	E	t18168	Snag (No Wildlife Feature)
Tall Oaks	E	t18239	Snag (No Wildlife Feature)
Tall Oaks	E	t18268	Snag (No Wildlife Feature)
Tall Oaks	E	t18300	Snag (No Wildlife Feature)
Tall Oaks	E	t18335	Snag (No Wildlife Feature)
Tall Oaks	E	t18566	Snag (No Wildlife Feature)
Tall Oaks	F	t18511	Vernal Pool
Lake Newport	A1	3' NW of Tree #37062	Stick Nest
Lake Newport	A2	5' NW of Tree #37052	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t37187	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t37188	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t37172	Leafy Nest (Squirrel Nest)
Lake Newport	A2	t37154	Leafy Nest (Squirrel Nest)
Lake Newport	A2	10' East of Tree #37125	Leafy Nest (Squirrel Nest)
Lake Newport	E	t37232	Snag (No Wildlife Feature)
Lake Newport	E	t37195	Snag (No Wildlife Feature)

LEGEND

-  STUDY AREA BOUNDARY
-  PERENNIAL STREAM (BASED ON FAIRFAX COUNTY RPA MAPS)
-  NON-PERENNIAL STREAM (BASED ON FAIRFAX COUNTY RPA MAPS AND WSSI'S SITE OBSERVATIONS)
-  JURISDICTIONAL WETLAND AREAS
-  PALUSTRINE OPEN WATER (POND)
-  NON-JURISDICTIONAL FEATURES
-  NEST
-  CAVITY
-  Den
-  SUBSURFACE EROSIONAL FEATURE
-  SNAG
-  VERNAL POOL
-  SURVEY-LOCATED TREE

INDEX TO SHEETS

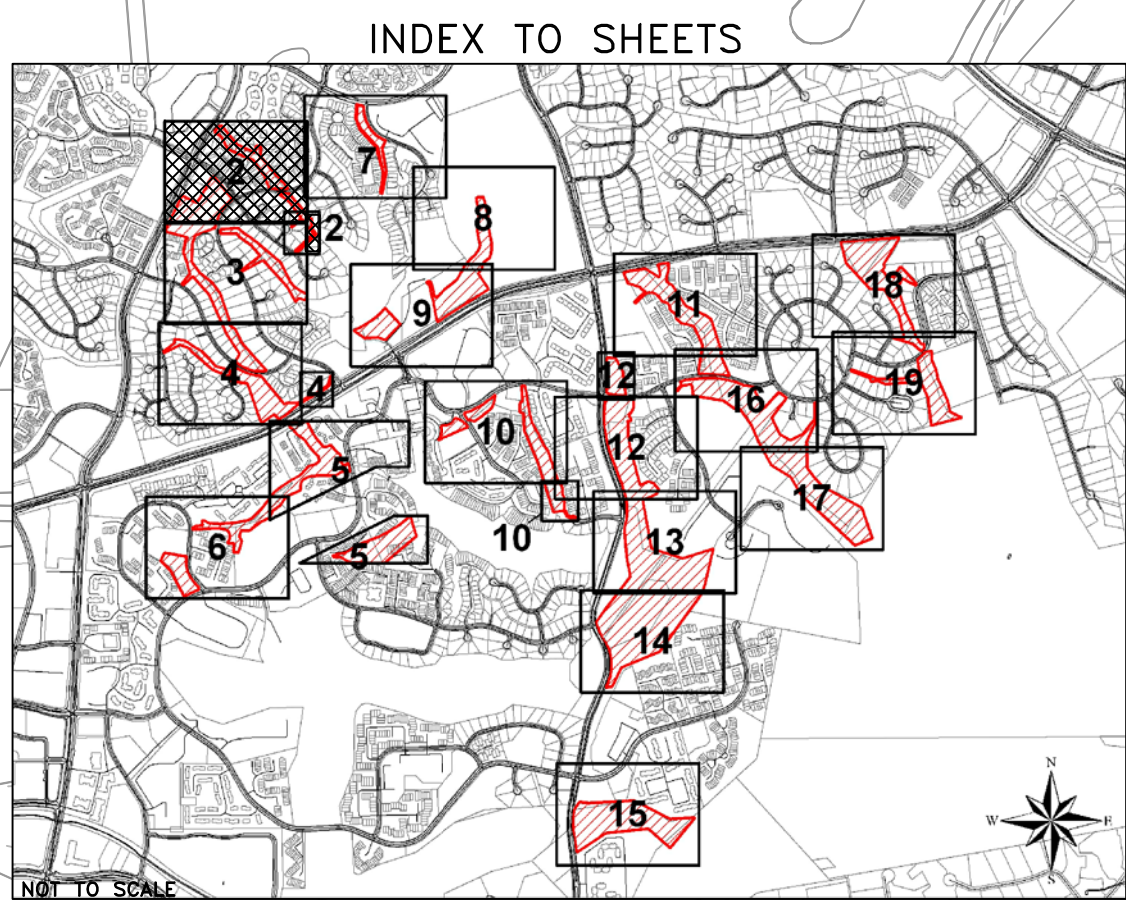


WILDLIFE HABITAT FEATURE INVENTORY NOTES:

1. Wetland Studies and Solutions, Inc. (WSSI) conducted a Wildlife Habitat Feature Inventory within the study areas of the Colvin Run Watershed portion of the Northern Virginia Stream Restoration Bank (NVSRB). This study was conducted to determine the location of active, inactive and potential wildlife denning and nesting features within the Colvin Run Watershed study areas.
2. Topographic information from Air Survey Corp. and from Fairfax County digital data and study area information from WSSI were used as a base for this attachment. The contour interval (C.I.) obtained from Air Survey Corp. is 0.5 feet and the C.I. from Fairfax County digital data is 5 feet. This information is based in the NAD 83 coordinate system, and vertical datum of NGVD 29.
3. Fieldwork was conducted between March 23 and April 24, 2009, on December 17, 2009, and on December 21, 2010, by Environmental Scientists Sean D. Sipple, PWS, PWD, C.T., Jennifer D. Feese, PWS, PWD, Lynn Straughan, PWS, PWD, and Beth A. Clements along with Senior Environmental Compliance Specialist Jason Beeler.
4. For the purpose of this report, WSSI has defined the wildlife habitat features as follows:
 - A. Nest - A nest was defined as a place of refuge to hold an animal's eggs and/or provide a place to raise their offspring. Nests are usually made of sticks and leaves. Nest were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:
 - 1) Stick Nest
 - 2) Leafy Nest (Squirrel Nest)
 - 3) Songbird nest
 - B. Cavity - A cavity was defined as a hollowed out feature in a standing tree which can provide an animal (usually avian) with refuge and a place to raise their offspring. Cavities were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:
 - 1) Snag
 - 2) Live Tree
 - C. Den - A den was defined as a hollowed out feature, either in a deadfall, tree hollow, or ground hollow. Dens were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:
 - 1) Deadfall
 - 2) Tree Hollow
 - 3) Ground Hollow
 - D. Subsurface Erosional Feature - A subsurface erosional feature was defined as a naturally-occurring subterranean hollow, usually associated with a drainage feature and may be used as a wildlife travel corridor. These features are not likely to be utilized as den sites due to their high probability of flooding during runoff-producing events. Subsurface Erosional Features were subsequently categorized in the Wildlife Habitat Feature Table (Exhibit 5) as:
 - 1) Inactive
 - 2) Active
 - E. Snags - A snag refers to a standing, partly or completely dead tree, often missing a top or most of the smaller branches, and greater than or equal to 20 inches diameter breast height. These features were identified regardless of evidence of known wildlife usage.
 - F. Vernal Pool - A vernal pool is a form of temporary, freshwater wetland that contains water for a portion of the year and supports a variety of wildlife. Vernal pools are often found in the floodplains of streams, in seasonally-flooded woodlands, as sinkhole ponds, or where rainwater and snowmelt collect in forest depressions.
5. Note that a portion of the Lake Anne East study area was not surveyed for wildlife habitat features as it is currently not included with this project. If needed, a survey for wildlife habitat features will be conducted in this area, as well as potential additional areas, in the future.
6. This study has been revised to include an additional area within the Lake Anne West study area. Fieldwork within the additional area was conducted on December 21, 2010 by Sean D. Sipple. The revised study area is depicted on Sheet 5, as well as on the index to sheets.

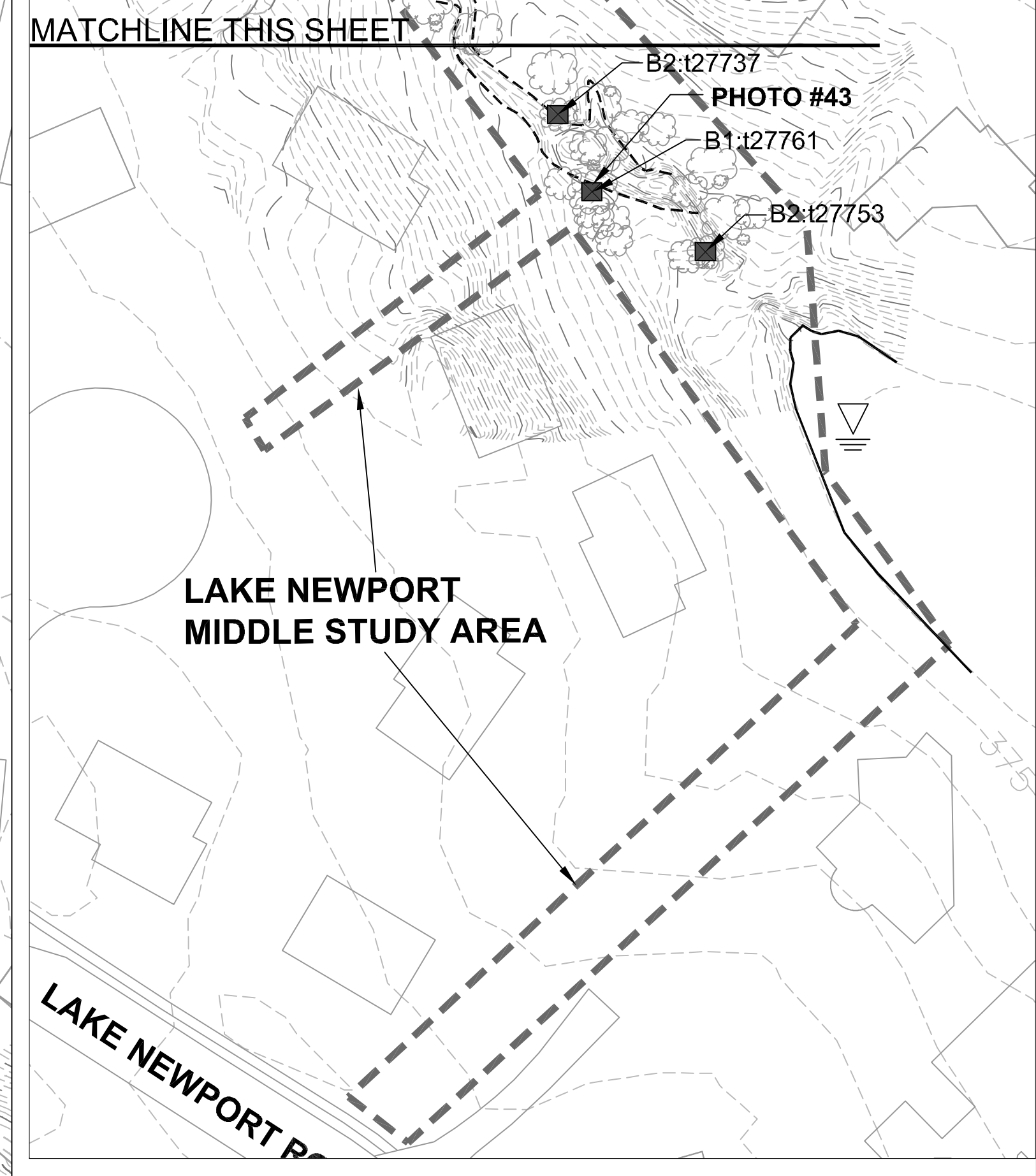
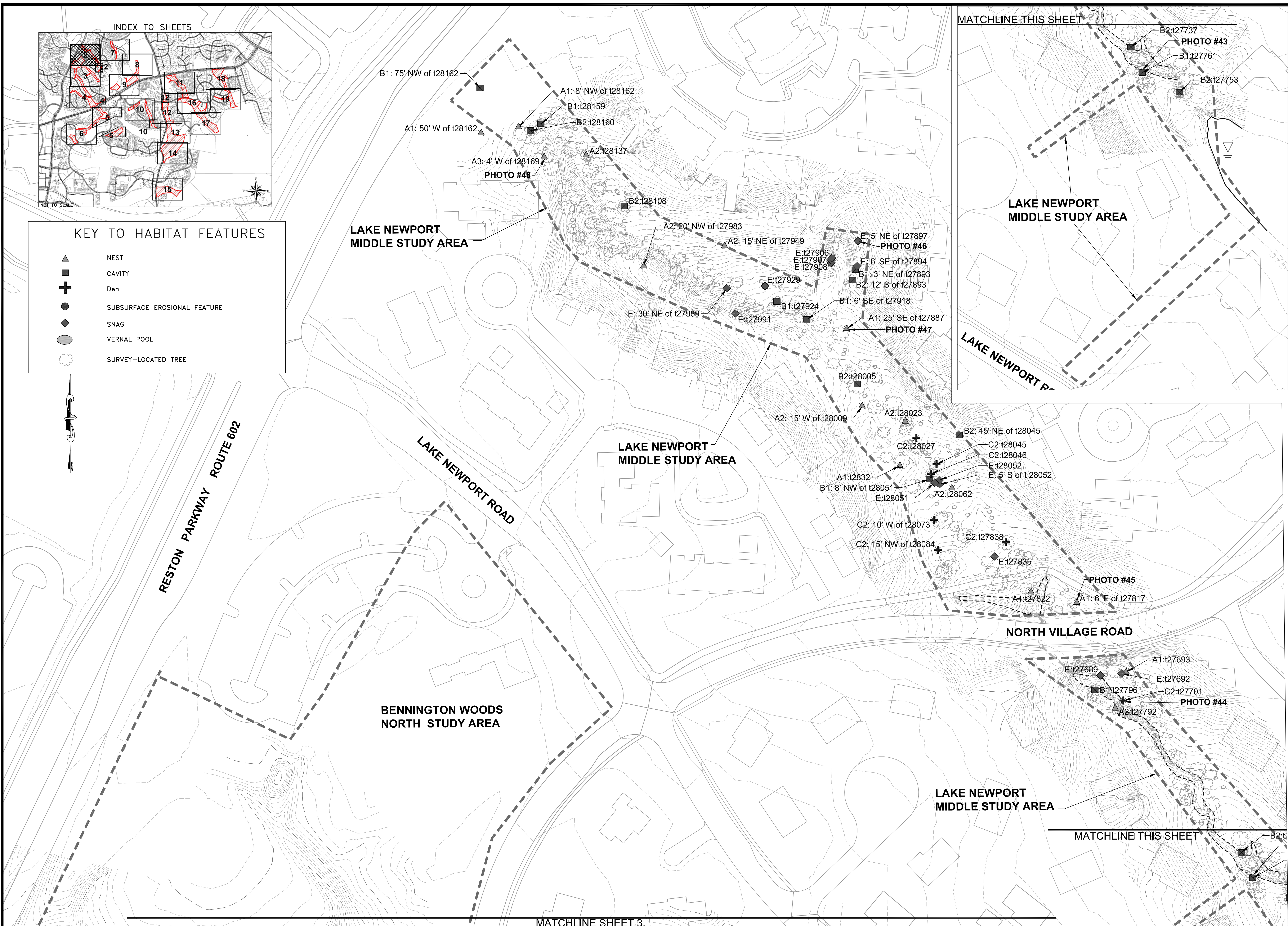
REVISIONS		Date	Description	Rev. By	App. By
No.	1	1/20/11	Revised Lake Anne West Study Area	SDS/JDF	JDF

Horizontal Datum: VCS NAD 83		
Vertical Datum: NGVD 88		
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours		
Design	Draft	Approved
JDF	JDF	MH
Sheet #		
1 of 19		
Computer File Name:		



KEY TO HABITAT FEATURES

▲	NEST
■	CAVITY
+	Den
●	SUBSURFACE EROSIONAL FEATURE
◆	SNAG
○	VERNAL POOL
☼	SURVEY-LOCATED TREE



Wetland
Studies and Solutions, Inc.

5300 Wellington Branch Drive • Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.

REVISIONS

No.	Date	Description	Rev. By	App. By

DATE: January 2010

SCALE: 1" = 50'

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
2 of 19

Computer File Name:

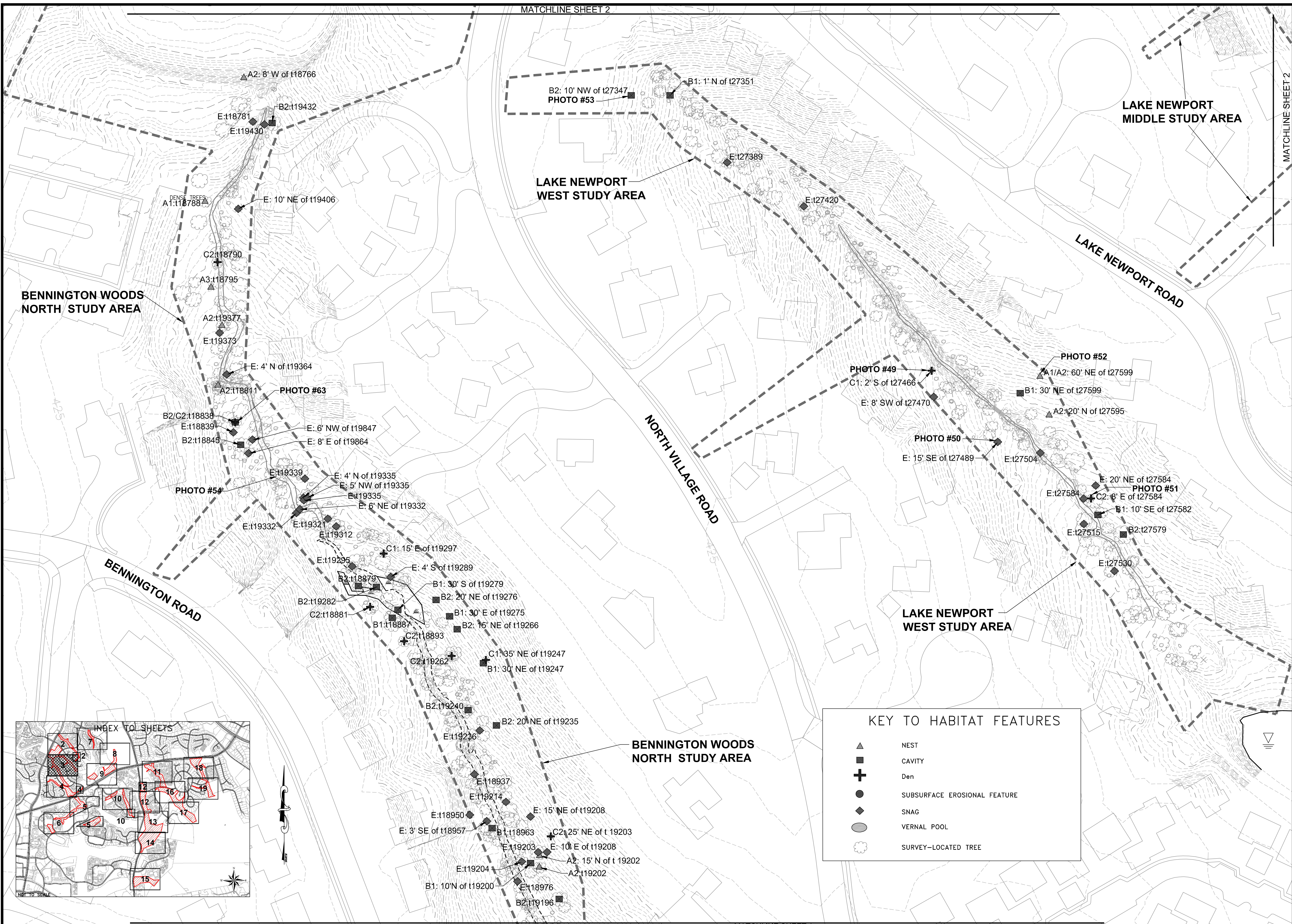
Wetland
Studies and Solutions, Inc.

5300 Wellington Branch Drive • Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

**Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP**

Prepared For: Northern Virginia Stream Restoration, L.C.
A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.



REVISIONS

No.	Date	Description	App. By	By

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound, AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
3 of 19

Computer File Name:
L:\2009\2009-10\CA2009-08\2010-01-15\10-01-15_VB081101.mxd

DATE: January 2010
SCALE: 1" = 50'

MATCHLINE SHEET 3

MATCHLINE THIS SHEET

MATCHLINE THIS SHEET

MATCHLINE SHEET 5

WETLAND 606

BENNINGTON WOODS NORTH STUDY AREA

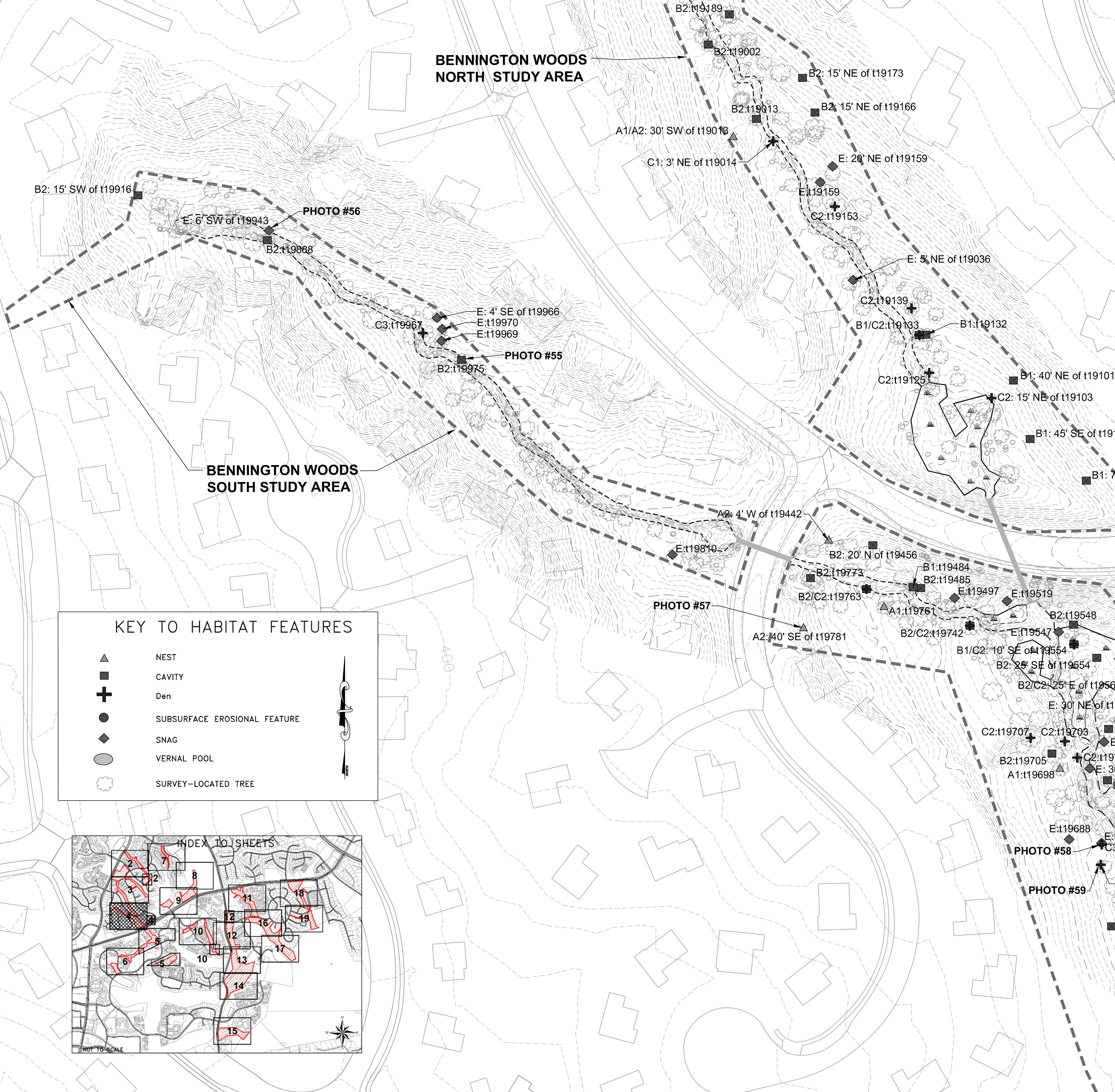
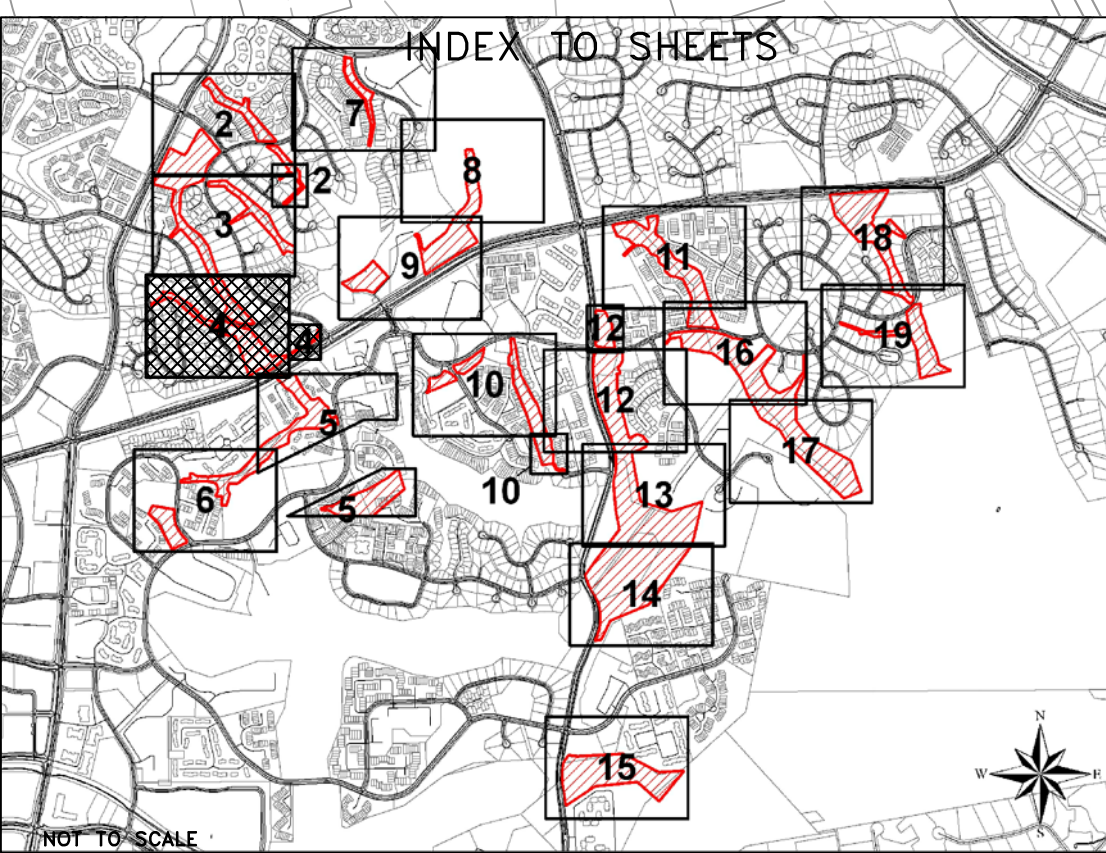
BENNINGTON WOODS SOUTH STUDY AREA

BENNINGTON WOODS SOUTH STUDY AREA

BENNINGTON WOODS SOUTH STUDY AREA

KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ⊙ SURVEY-LOCATED TREE



BENNINGTON ROAD

BARON CAMERON AVENUE ROUTE 606

Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP
Prepared For: Northern Virginia Stream Restoration, L.C.
A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA
Copyright © 2010 Wetland Studies and Solutions, Inc.

Wetland
Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

REVISIONS		App. By	Rev. By
No.	Date	Description	

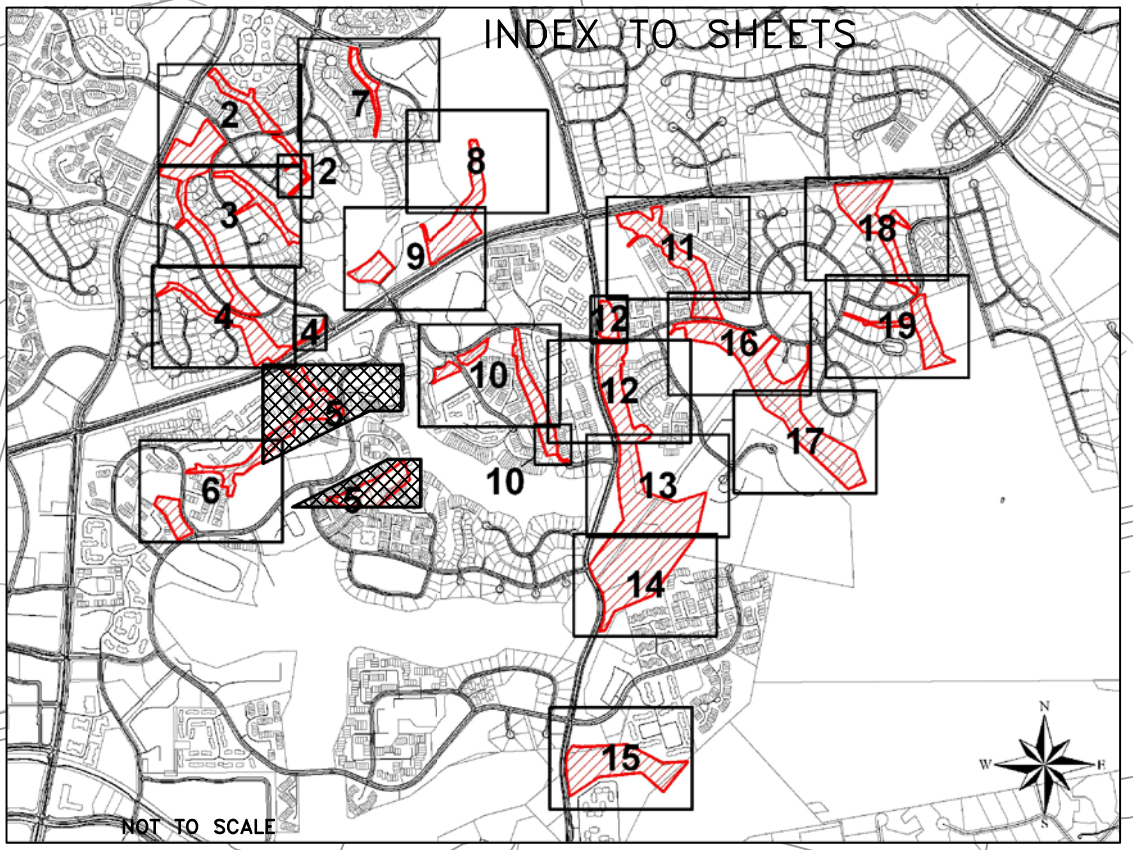
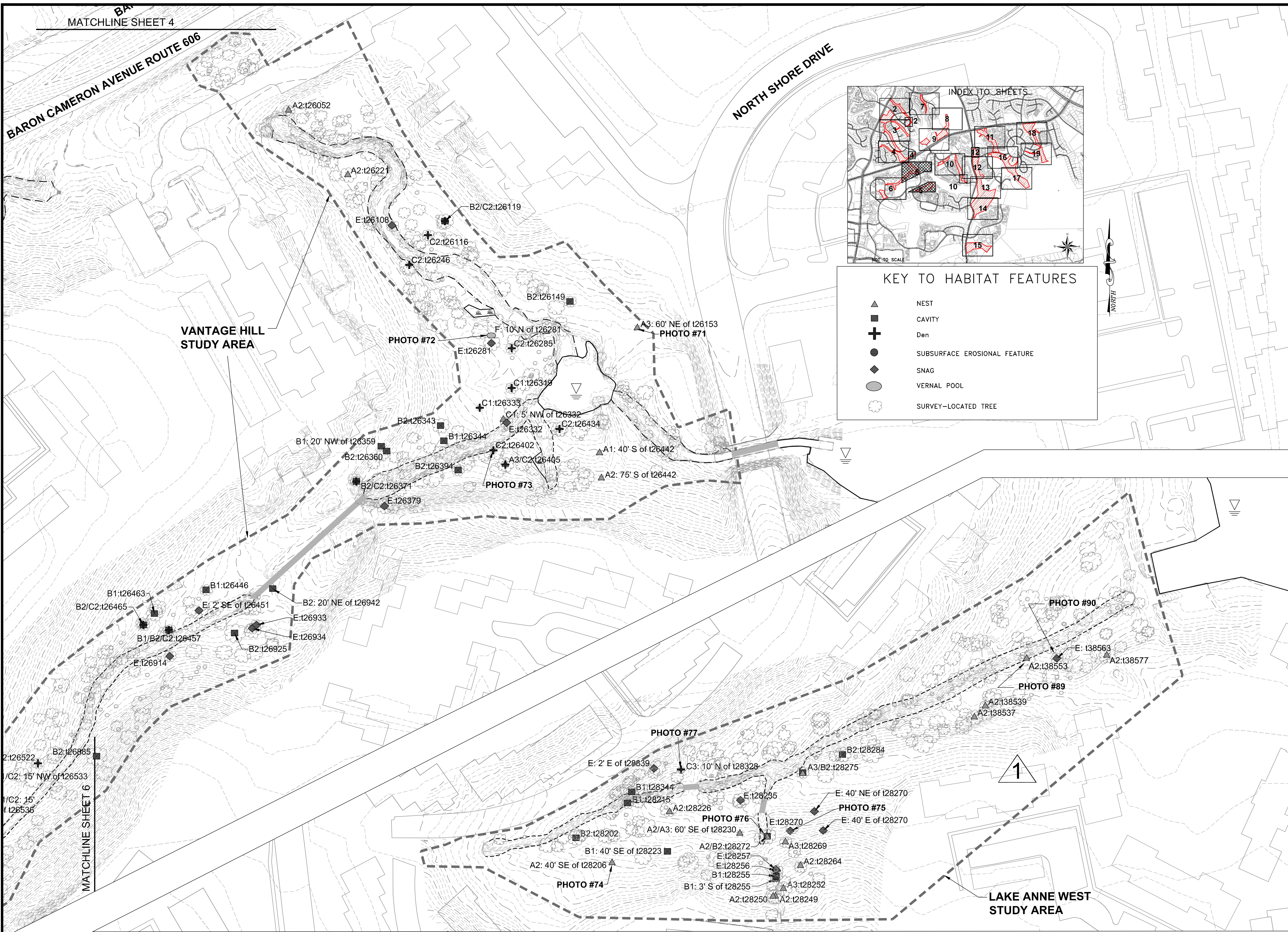
DATE: January 2010 SCALE: 1" = 50'

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
4 of 19

Computer File Name: L:\030101\030101\CAD\030101\GIS\030101_01_04.mxd



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☼ SURVEY-LOCATED TREE

**Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP**

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.

REVISIONS

No.	Date	Description	App. By	Rev. By
1	1/20/11	Revised Lake Anne West Study Area	SDS	JDF

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

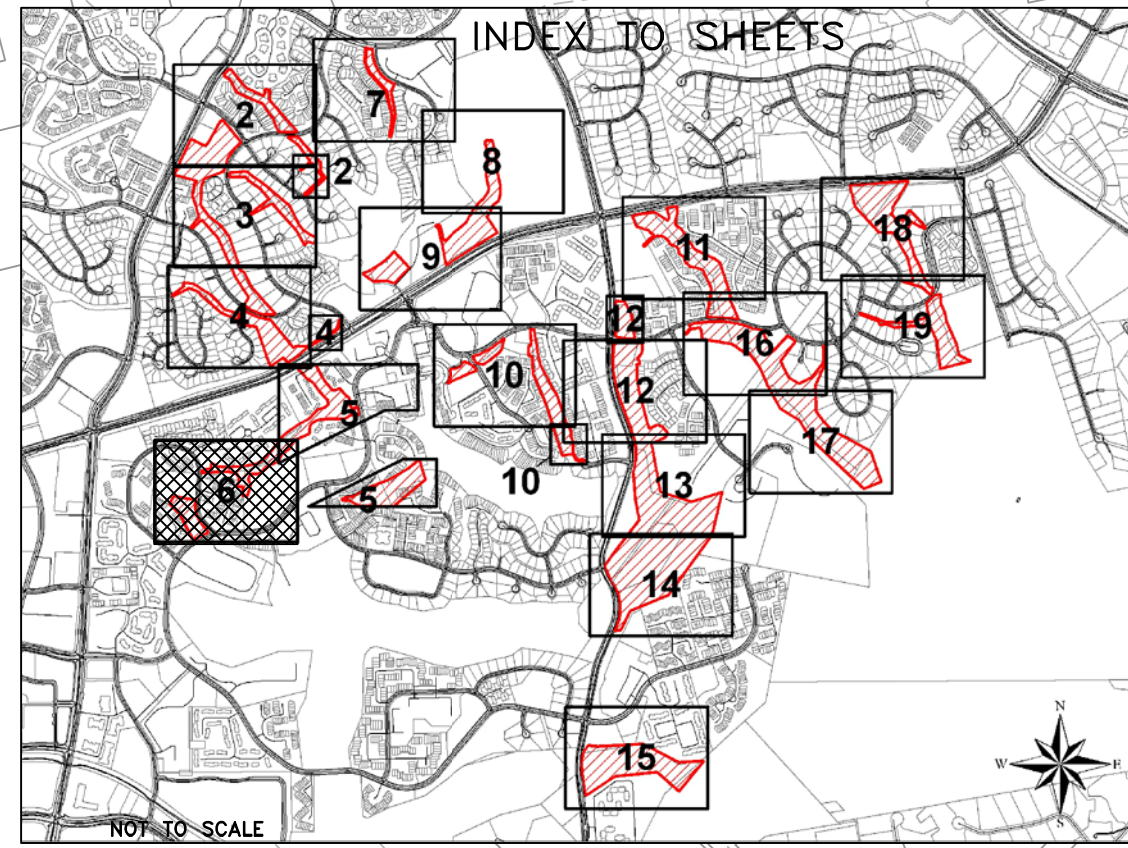
Sheet #
5 of 19

Computer File Name:

DATE: January 2010

SCALE: 1" = 50'

Wetland
Studies and Solutions, Inc.
5300 Wellington Branch Drive • Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☼ SURVEY-LOCATED TREE

VANTAGE HILL STUDY AREA

VANTAGE HILL STUDY AREA

ACTIVE RED-SHOULDERED HAWK NEST

PHOTOS #69 AND 70

WAINWRIGHT DRIVE

NORTH SHORE DRIVE

MATCHLINE SHEET 5

**Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP**

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed

FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.

REVISIONS

No.	Date	Description	App. By

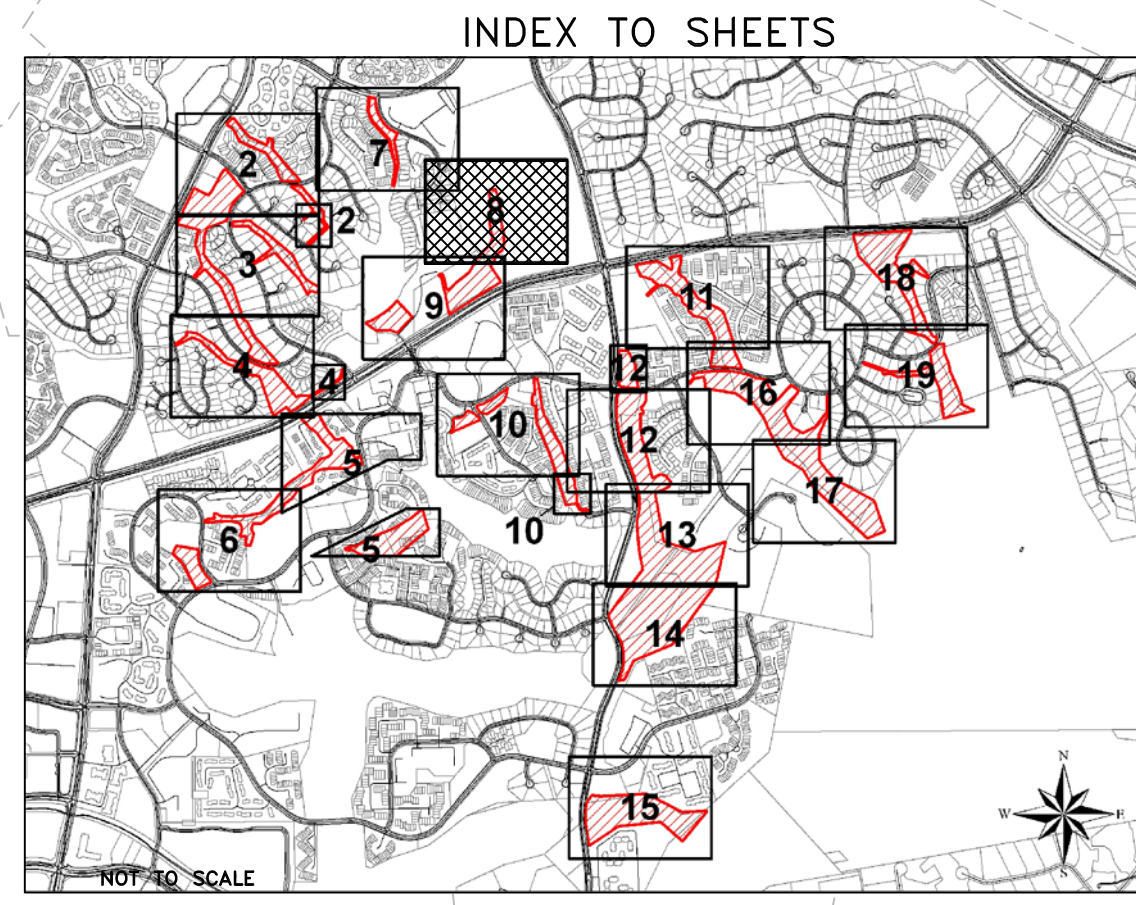
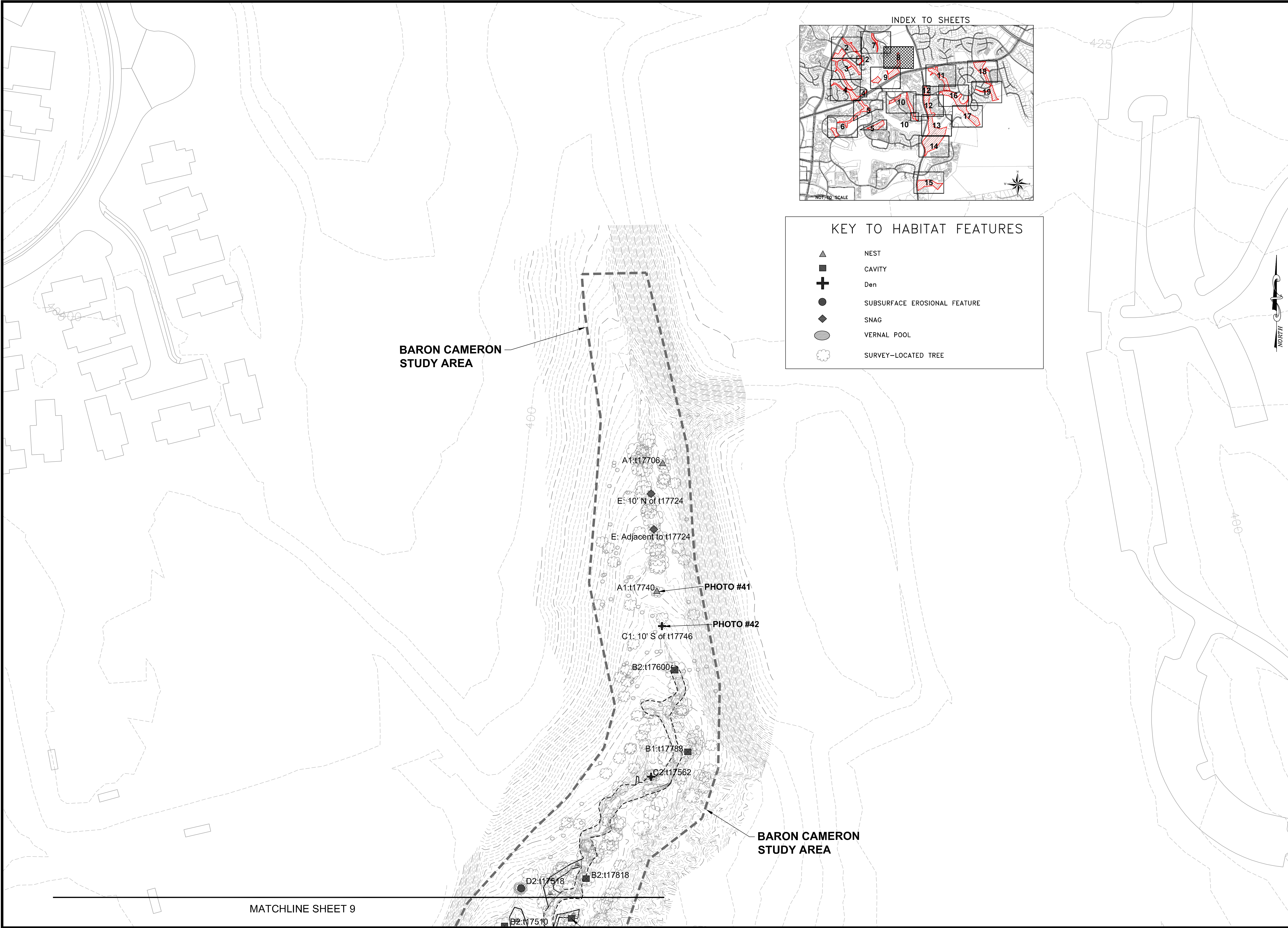
Horizontal Datum: VCS NAD 83
 Vertical Datum: NGVD 88
 Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
6 of 19

Computer File Name:
L:\2010\08\10\CA2206\G0205\FW\08102010\F6 Map.dwg

5300 Wellington Branch Drive • Suite 100
 Gainesville, Virginia 20155
 Phone: 703-679-5600 • Fax: 703-679-5601
 www.wetlandstudies.com



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☉ SURVEY-LOCATED TREE

BARON CAMERON STUDY AREA

BARON CAMERON STUDY AREA

**Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP**

Prepared For: Northern Virginia Stream Restoration, L.C.
A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

REVISIONS

No.	Date	Description	Rev. By	App. By

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey- 0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

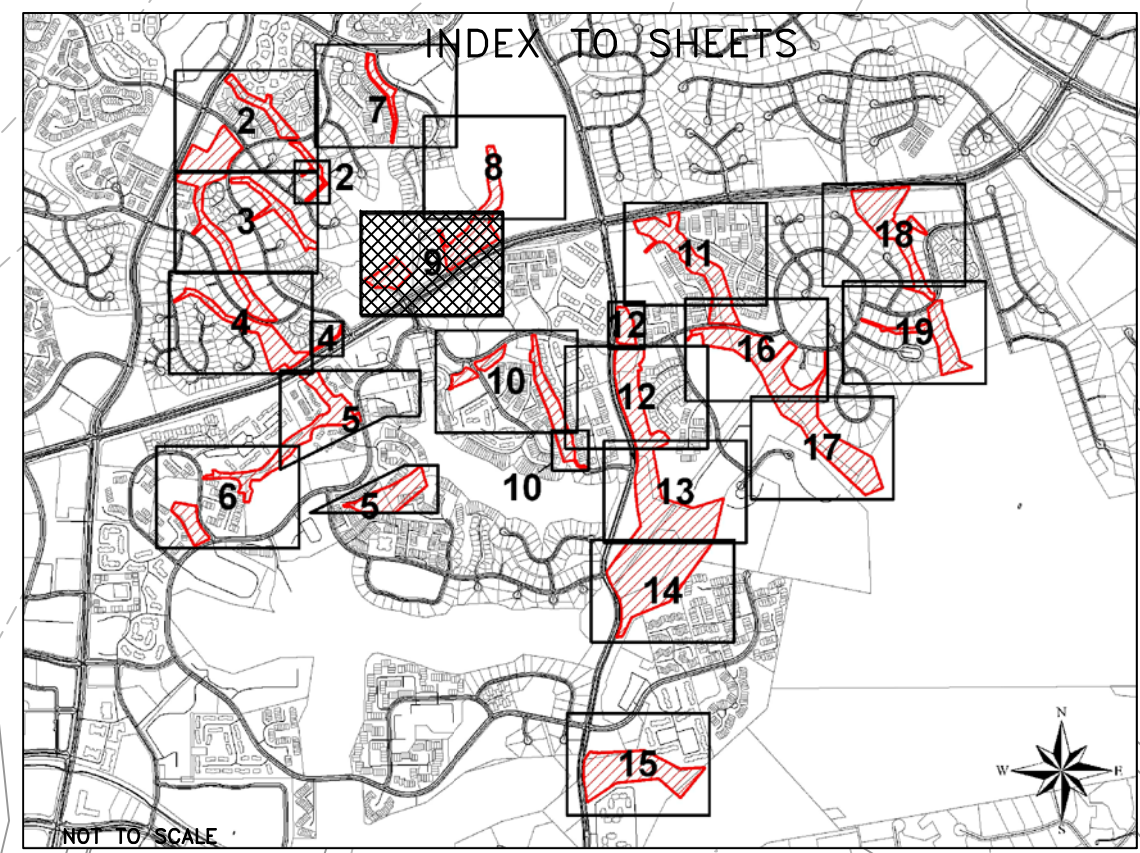
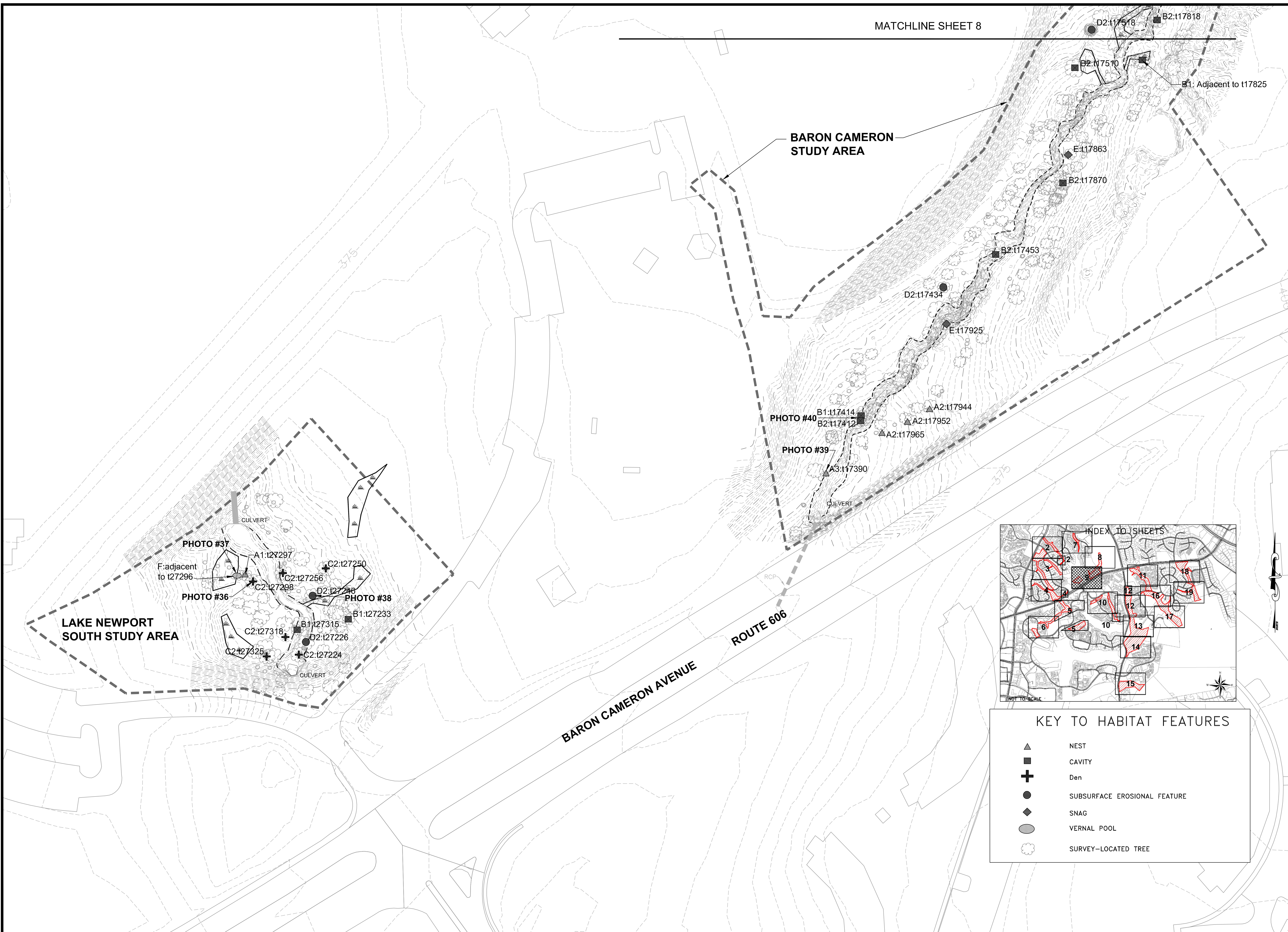
Sheet #
8 of 19

Computer File Name:
L:\00000200\00CA0206\GEOIS\04\FW\081009\116_0810 Map.dwg

5300 Wellington Branch Drive • Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

Copyright © 2010 Wetland Studies and Solutions, Inc.

MATCHLINE SHEET 9



KEY TO HABITAT FEATURES

▲	NEST
■	CAVITY
+	Den
●	SUBSURFACE EROSIONAL FEATURE
◆	SNAG
○	VERNAL POOL
☼	SURVEY-LOCATED TREE

REVISIONS

No.	Date	Description	Rev. By	App. By

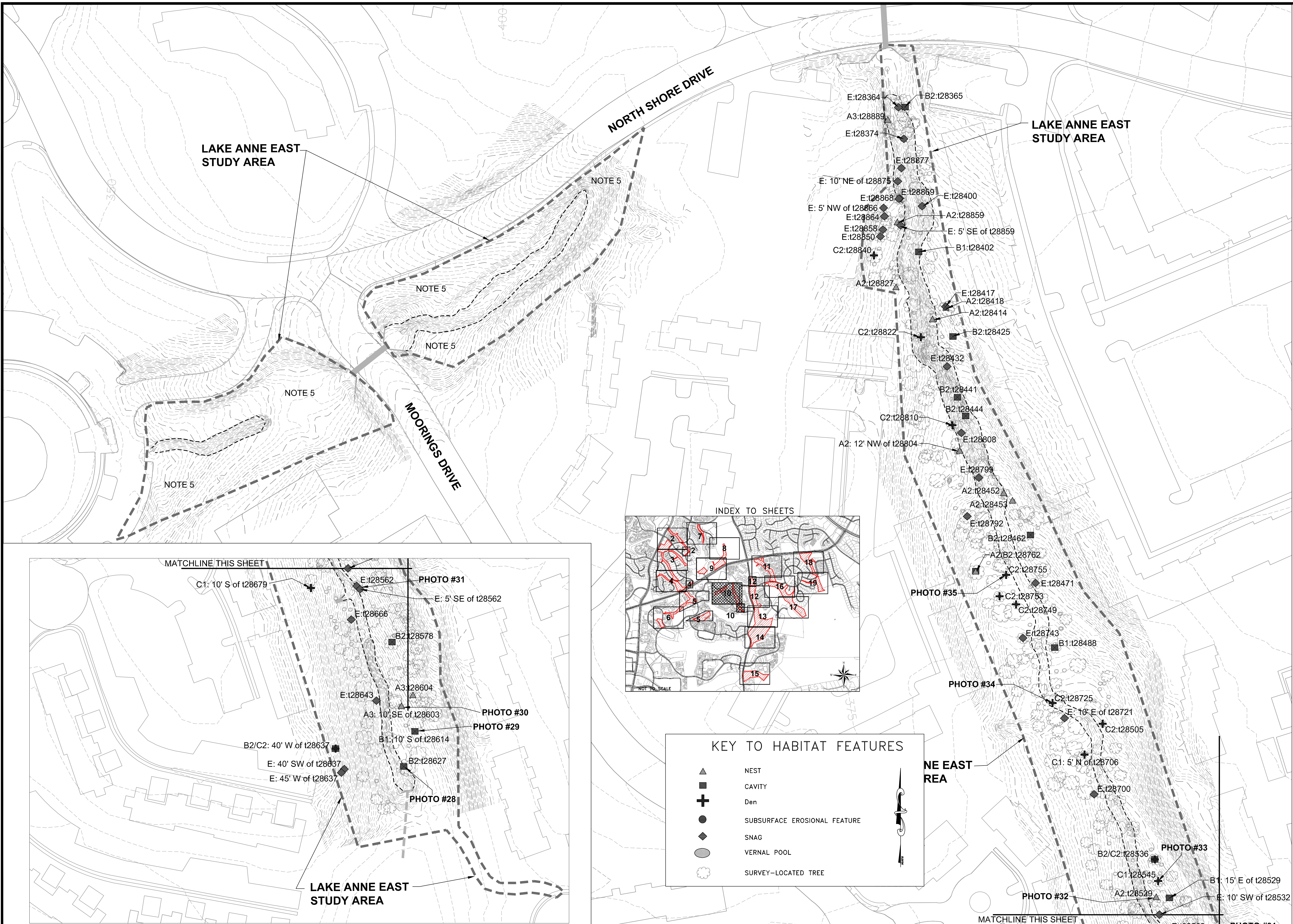
Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey- 0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
9 of 19

DATE: January 2010
SCALE: 1" = 50'

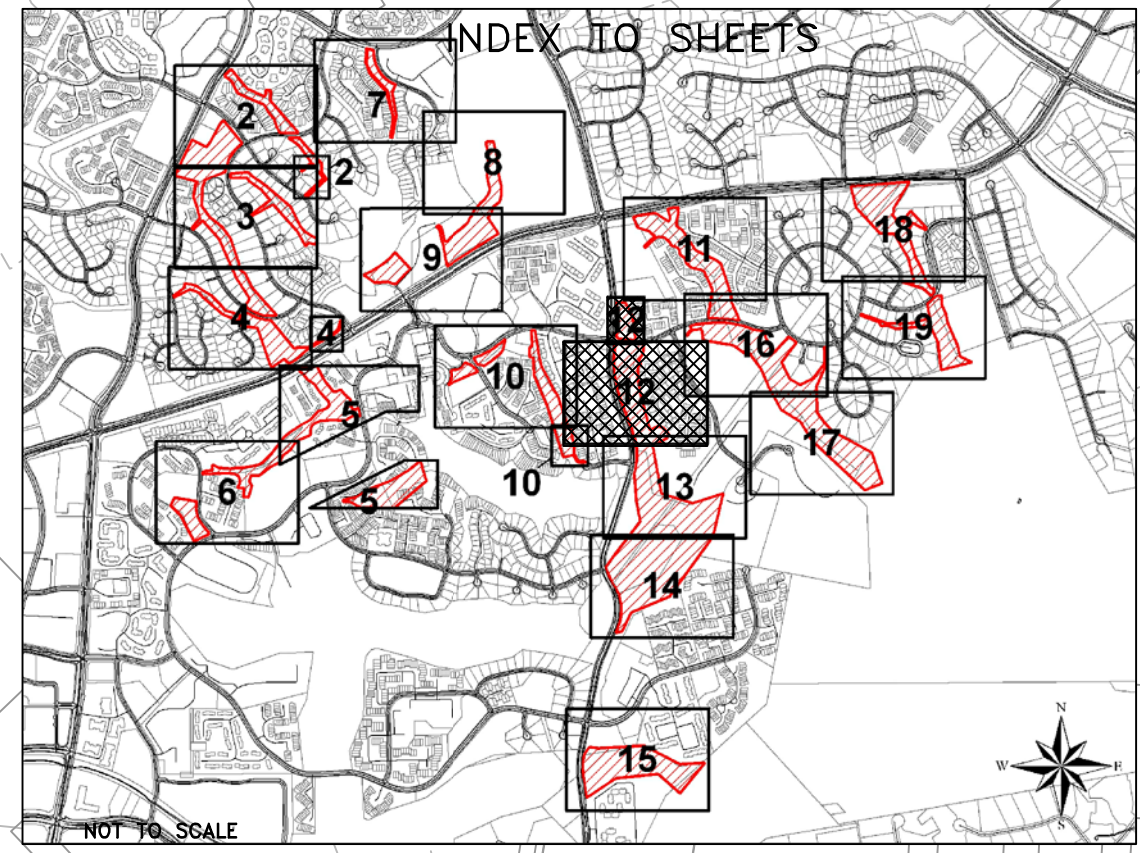
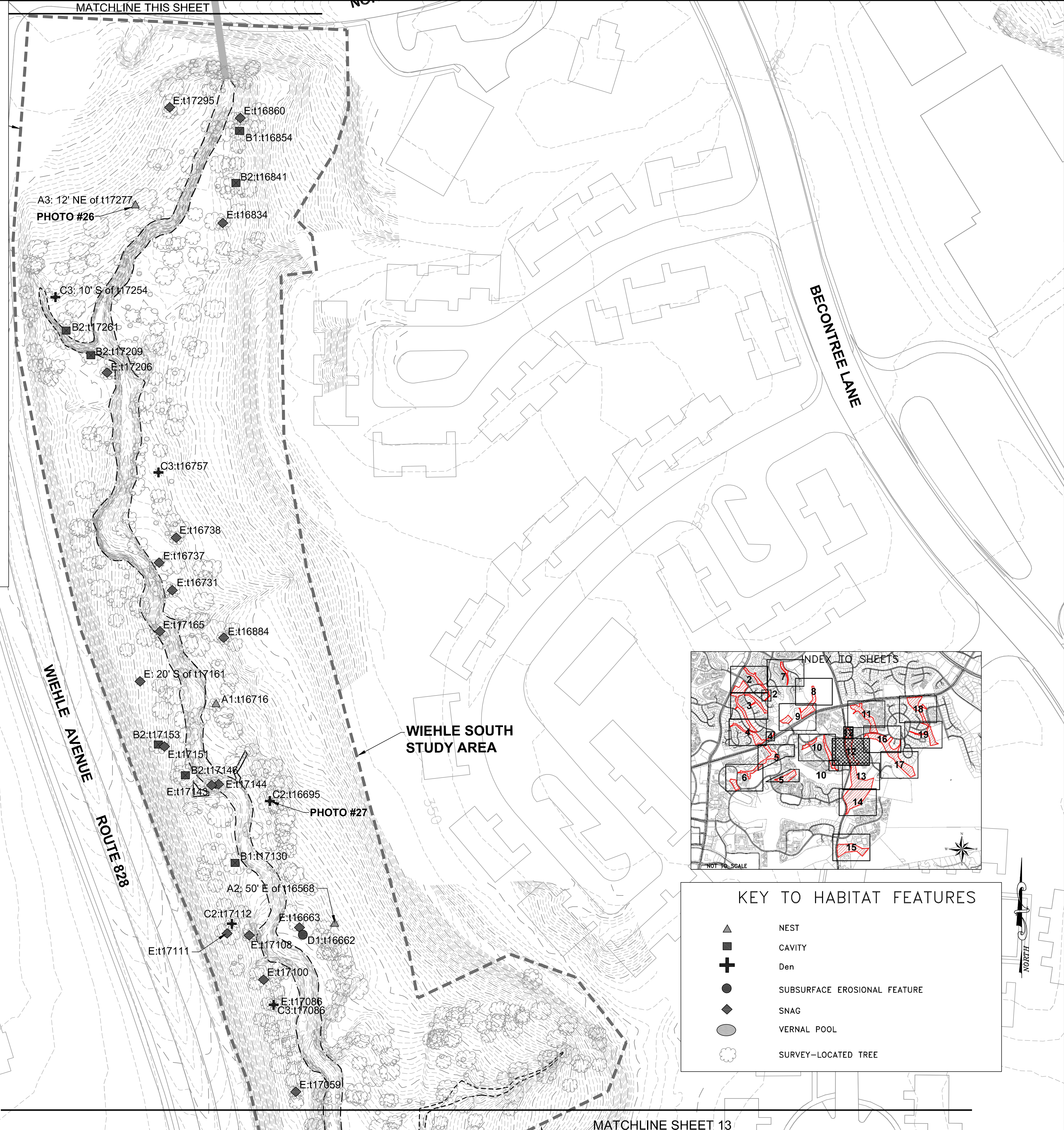
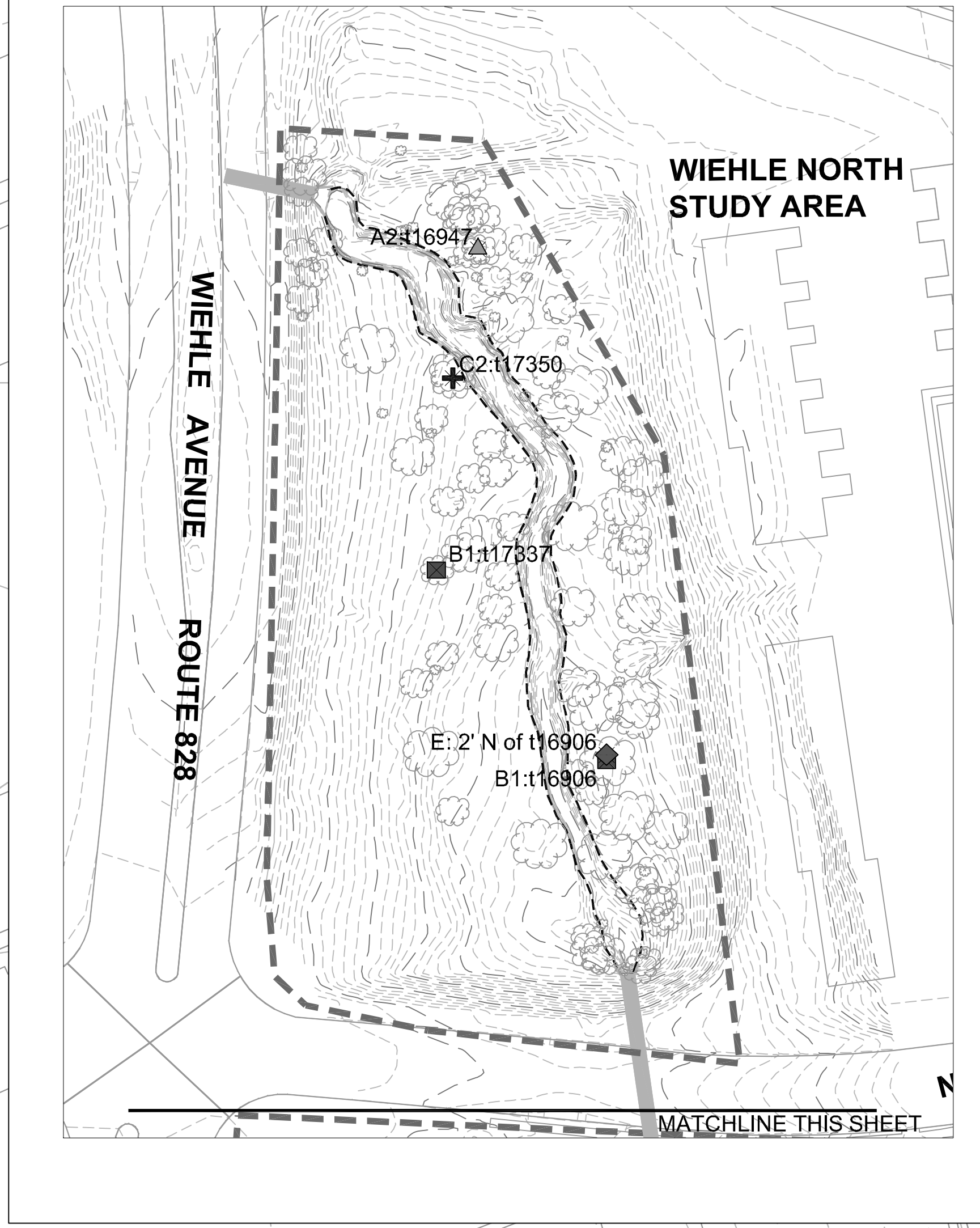
Computer File Name:
L:\2010\01\10\CA2266\G26265-G26265-01\10\11\Map.mxd



REVISIONS

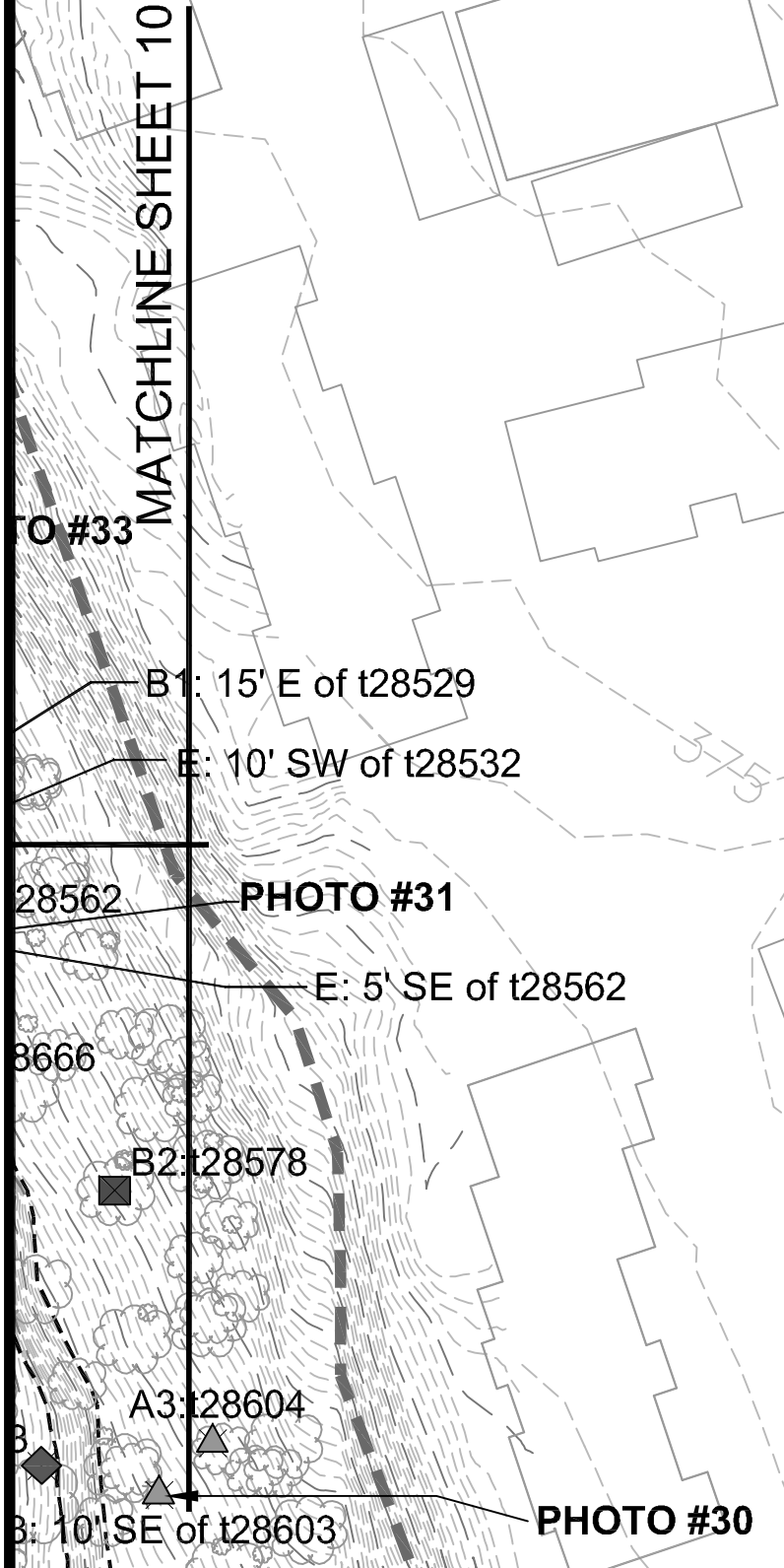
No.	Date	Description	App. By	Rev. By

No.	Date	Description	App. By	Rev. By



KEY TO HABITAT FEATURES

▲	NEST
■	CAVITY
+	Den
●	SUBSURFACE EROSIONAL FEATURE
◆	SNAG
○	VERNAL POOL
☼	SURVEY-LOCATED TREE



REVISIONS

No.	Date	Description	App. By	Rev. By

Horizontal Datum: VCS NAD 83
 Vertical Datum: NGVD 88
 Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

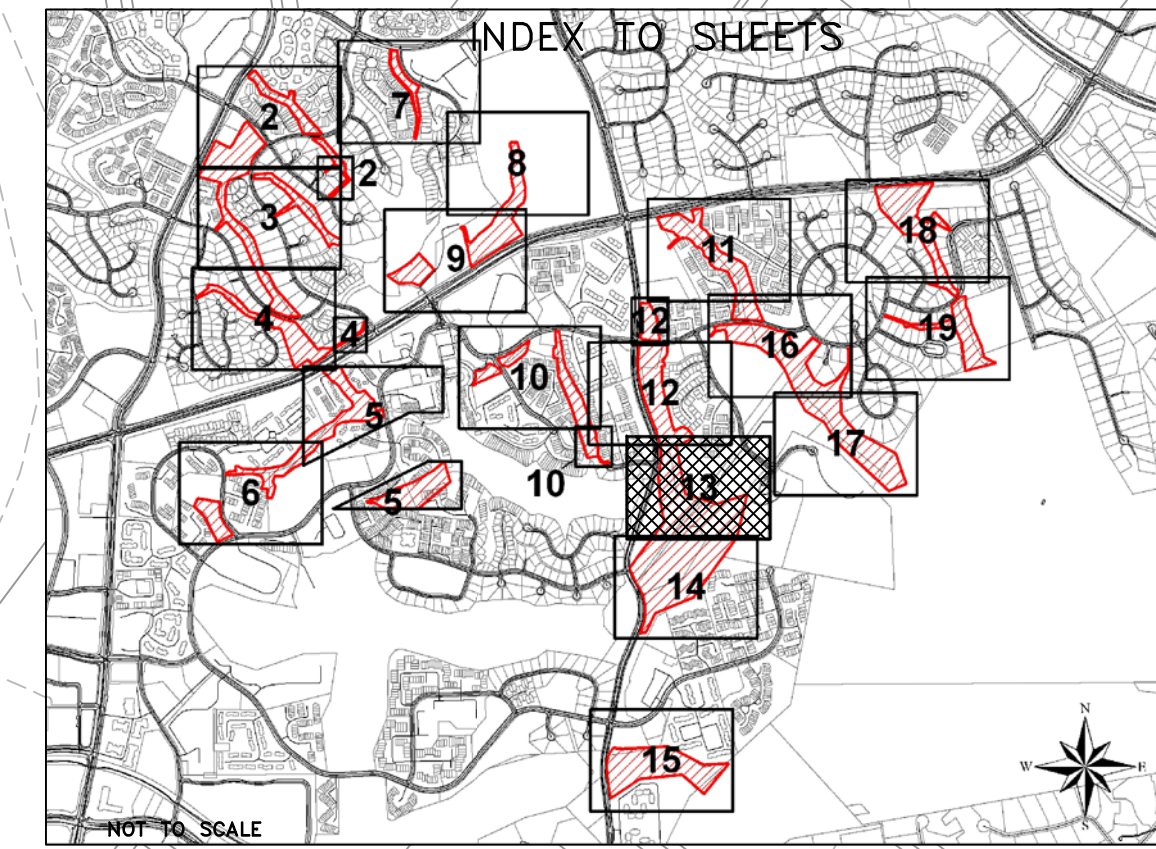
Sheet #
 12 of 19

Computer File Name:

DATE: January 2010
 SCALE: 1" = 50'

MATCHLINE SHEET 12

WIEHLE SOUTH STUDY AREA



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☉ SURVEY-LOCATED TREE

WIEHLE AVENUE
ROUTE 828

PHOTO #22

PHOTO #21

PHOTO #18

PHOTO #20

PHOTO #19

PHOTO #17

WIEHLE SOUTH STUDY AREA

MATCHLINE SHEET 14

Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Wetland
Studies and Solutions, Inc.

5300 Wellington Branch Drive • Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

REVISIONS

No.	Date	Description	App. By	Rev. By

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
13 of 19

Computer File Name:
L:\2009\2010\10\2010\2010-08-26-09-00-00\2010-12-13-10-00-00.mxd

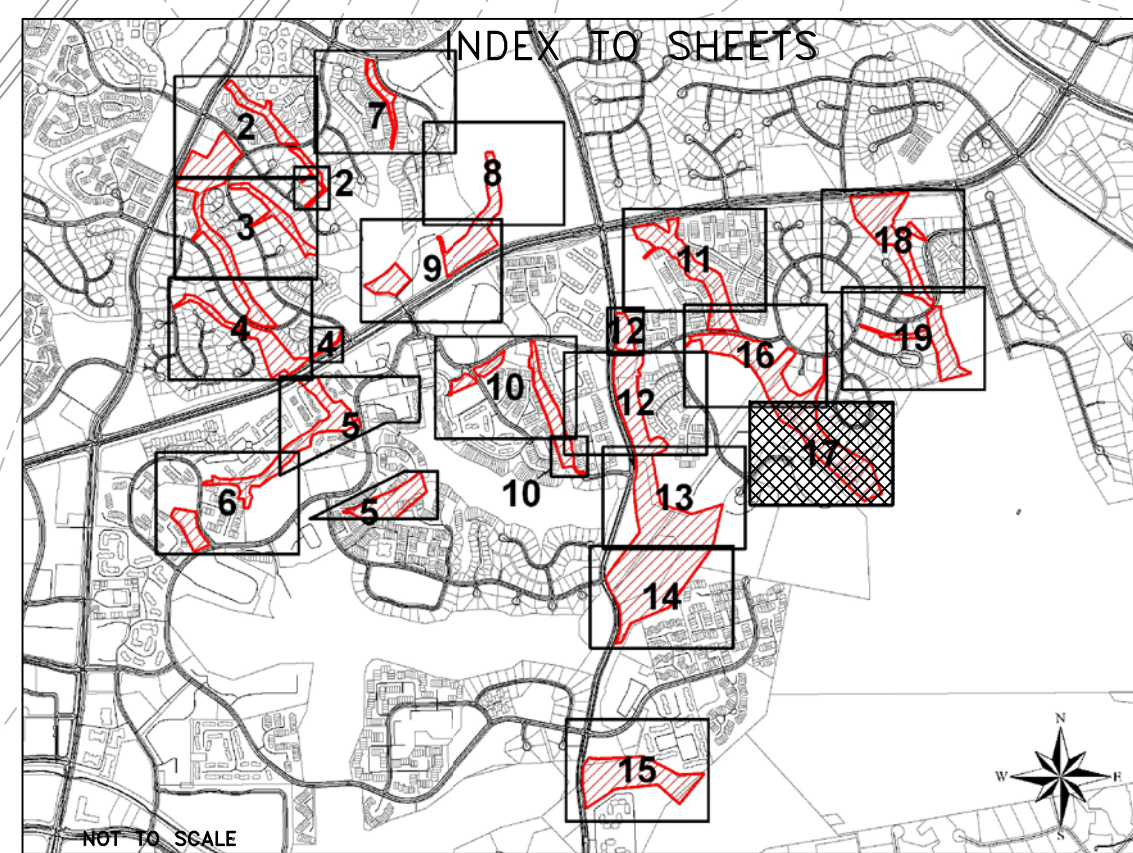
DATE: January 2010 SCALE: 1" = 50'

Copyright © 2010 Wetland Studies and Solutions, Inc.

MATCHLINE SHEET 16

FOREST EDGE SOUTH STUDY AREA

FOREST EDGE SOUTH STUDY AREA



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- SURVEY-LOCATED TREE

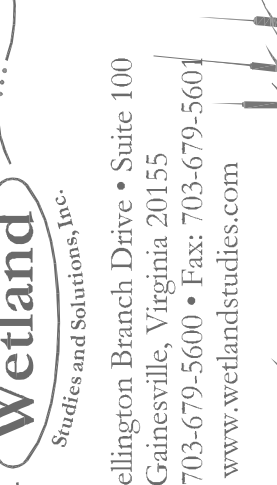


Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.



REVISIONS		No.	Date	Description	App. By	Rev. By

Horizontal Datum: VCS NAD 83		
Vertical Datum: NGVD 88		
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours		
Design	Draft	Approved
JDF	JDF	MH
Sheet #		
17 of 19		
Computer File Name:		

SCALE: 1" = 50'

DATE: January 2010

BARON CAMERON AVENUE

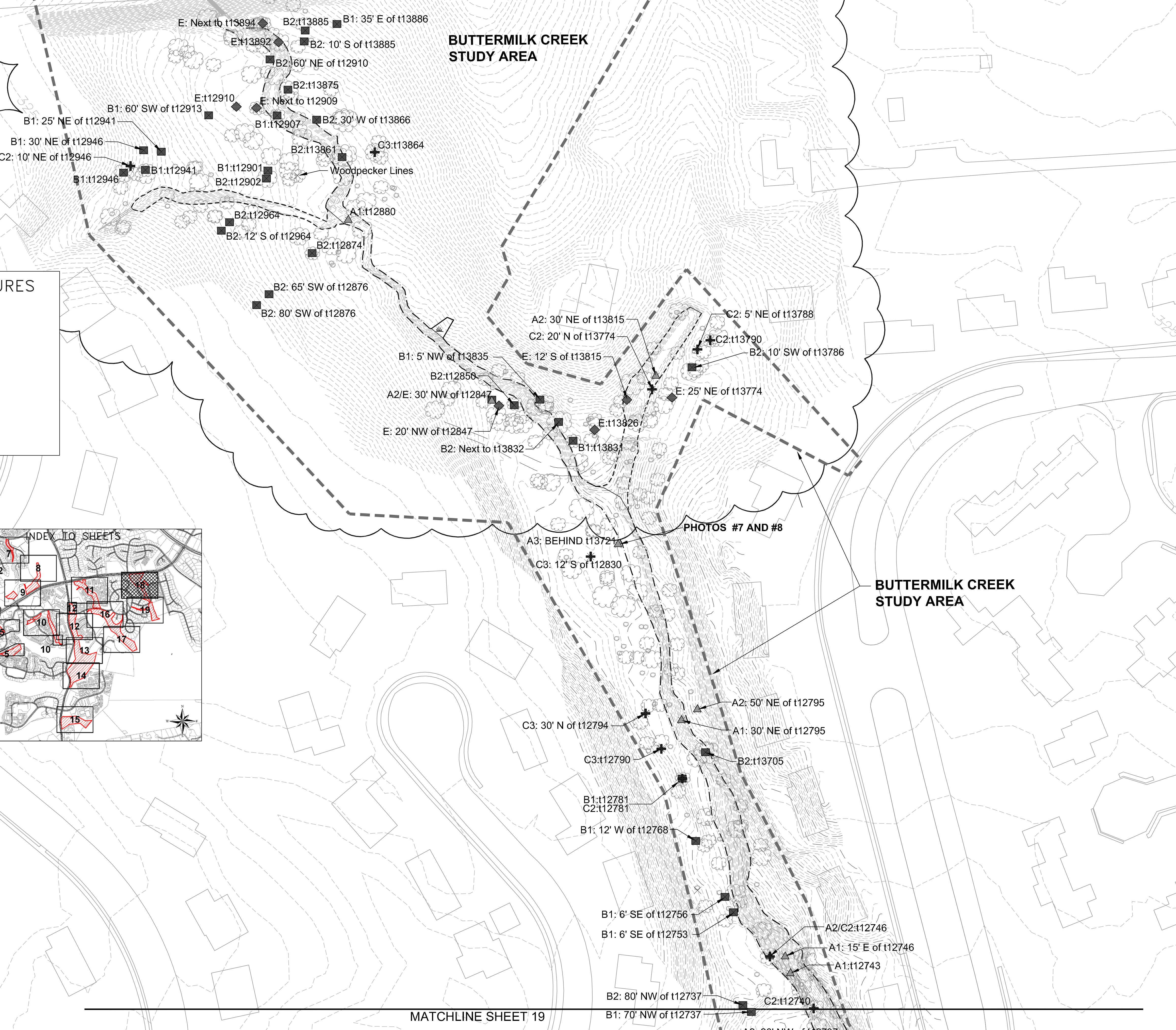
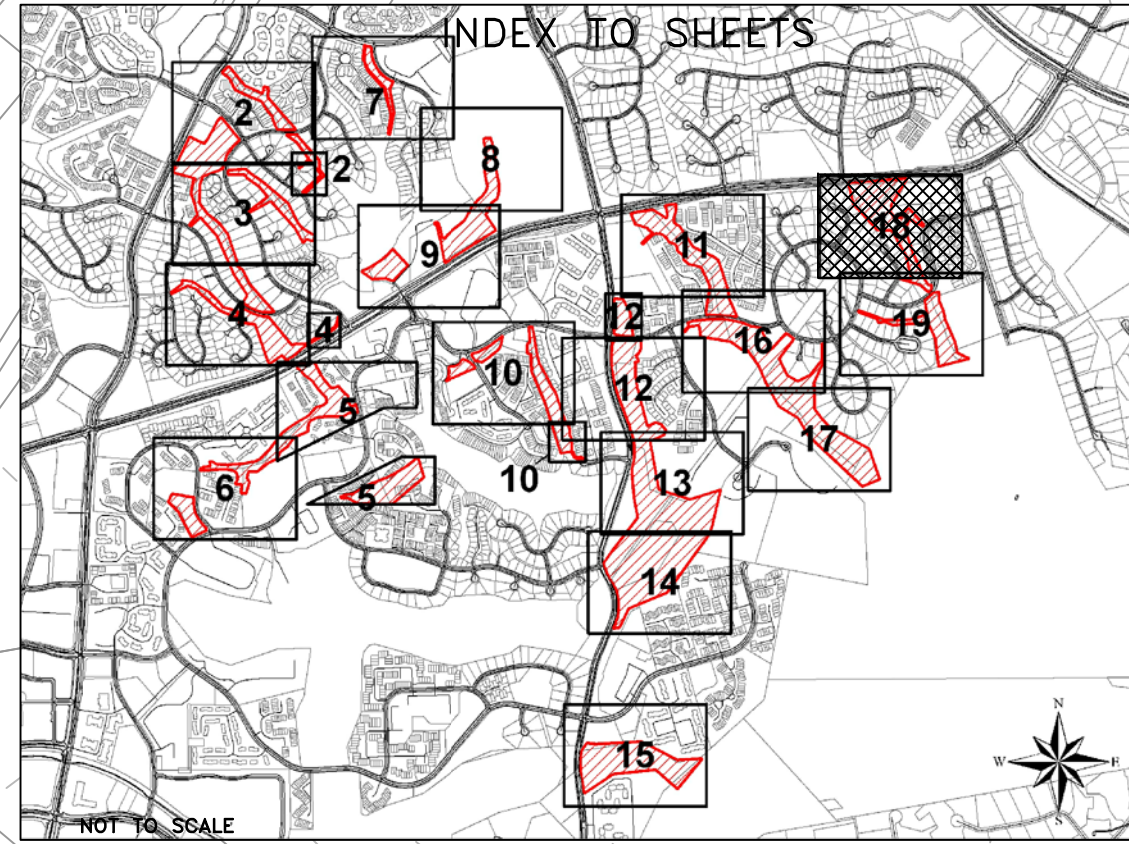
ROUTE 606

BUTTERMILK CREEK STUDY AREA

BUTTERMILK CREEK STUDY AREA

KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☁ SURVEY-LOCATED TREE



MATCHLINE SHEET 19

**Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP**

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.

REVISIONS		
No.	Date	Description

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
18 of 19

Computer File Name:
L:\000020110\CA2206\GEO\GEO\FRM\2011-12-18\18 Map.dwg

5300 Wellington Branch Drive, Suite 100
Gainesville, Virginia 20155
Phone: 703-679-5600 • Fax: 703-679-5601
www.wetlandstudies.com

B2: 80' NW of t12737
B1: 70' NW of t12737
C2:t12740
A2: 20' NW of t12737
B1: 50' W of t12737
PHOTO #6

BUTTERMILK CREEK STUDY AREA

BUTTERMILK CREEK STUDY AREA

RING ROAD

HUNT CLUB ROAD

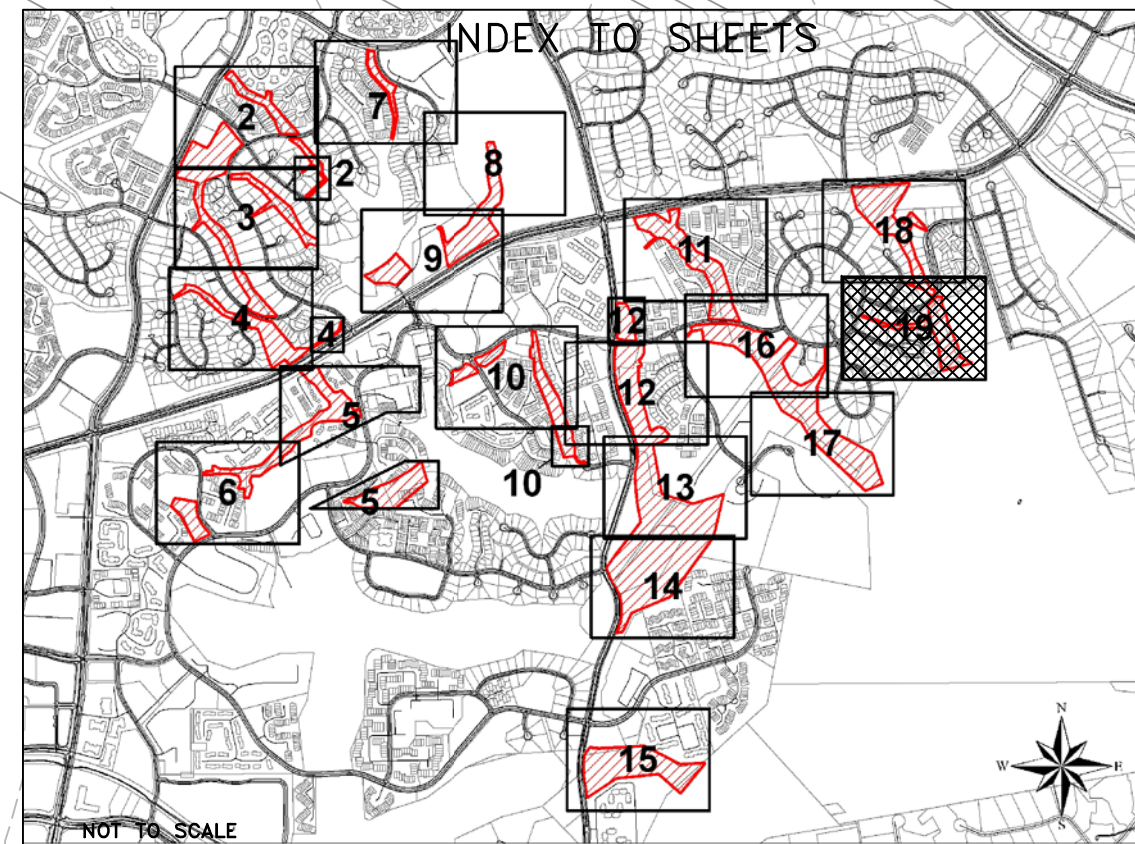
PHOTO #1
A1:B2:t12658
C3:t13618
B2:t12660
A1:t13644
A2:t13625
C1:t13617
B2:t13617

E: 13' W of t12642
E: 30' WSW of t12642
B2: 30' W of t12631
A1: 3' W of t12697
B2:t12692
C3:t12691
A1:t12697
C2:t12682
C3:t13660
B4:t13657
E: 10' SW of t12636
C1: 15' E of t12684
B2:t13697
B2:t12619
B1:t13583
A3/B2/C2:t12620
B2:t12622
B1: 3' W of t13580
B2:t12621
C1: 3' NE of t13576
A1: 10' SE of t13576
B2:t13573

PHOTO #2
PHOTO #3
PHOTO #4
B1: 15' S of t13649
A1: 40' W of t12612
B2/C2: 45' SW of t12611
B1: 30' SW of t12605
B2: 65' W of t12601
B2: 35' W of t12601
B2: 65' W of t12599
B2: 65' W of t12594
C3:t12611
C2:t13561
C8: 3' S of t13559
B1: 13' E of t12602
B2:t12602
C1: 30' S of t13541
C2: 30' W of t12590
B2:t12584
C2:t12583
A1:t12578
C2:t12599

BUTTERMILK CREEK STUDY AREA

PHOTO #5
E: 20' NW of t12568
B1:t12568
C3:t12566
E: 3' S of t12566
B2: 20' W of t12555
B1: 3' W of t12561
C2: 3' NW of t13515
B2:t13513
C2:t12541
B2:t12542
C2/C3:t12535
C3:t12539



KEY TO HABITAT FEATURES

- ▲ NEST
- CAVITY
- ⊕ Den
- SUBSURFACE EROSIONAL FEATURE
- ◆ SNAG
- VERNAL POOL
- ☉ SURVEY-LOCATED TREE



Exhibit 6:
WILDLIFE HABITAT FEATURE LOCATION MAP

Prepared For: Northern Virginia Stream Restoration, L.C.

A Portion of the Colvin Run Watershed
FAIRFAX COUNTY, VIRGINIA

Copyright © 2010 Wetland Studies and Solutions, Inc.

REVISIONS		App. By
No.	Date	
	Description	

Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 88
Boundary and Topo Source: Fairfax County Digital Data-Bound. AirSurvey-0.5' Contours

Design	Draft	Approved
JDF	JDF	MH

Sheet #
19 of 19

Computer File Name:

