

**YEAR 6 ANNUAL MONITORING REPORT  
FINAL  
Year 7 Post Planting  
UT to Falls Lake (McDaniel Farm)  
Riparian Buffer and Nutrient Offset Mitigation Project  
Durham County, North Carolina  
NC Division of Mitigation Services Project #: 95389**

**Neuse River Basin  
03020201**

**DWR #: 20150634**



**Prepared for and by:  
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**December 2022**

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## 1.0 PROJECT SUMMARY

NC Division of Mitigation Services (DMS) implemented the **UT to Falls Lake (McDaniel Farm) Project** (Project) to fulfill riparian buffer mitigation needs in the Neuse 03020201 Catalog Unit and nutrient offset mitigation needs in the Upper Falls Lake Watershed in accordance with the NC Division of Water Resources (DWR) Temporary Buffer Mitigation Rule (15A NCAC 02B .0295) effective October 24, 2014.

This project site is located off Benny Ross Road in Durham County approximately 7.5 miles east of the City of Durham and is within the Upper Falls Lake Watershed (Appendix B, Figure 1). The site is within the Lick Creek watershed (HU 3020201050030) which is comprised of sub-watersheds draining to Lick Creek, its tributary Rocky Branch, Laurel Creek, and unnamed tributaries to Falls Lake. Falls Lake is a drinking water supply watershed with additional nutrient restrictions regulated by the North Carolina Division of Water Resources. The site is in NC DWR's 03-04-01 sub-basin.

Riparian buffer mitigation activities occur along the Project from top of bank and extending out to 200 feet, resulting in a maximum of 9.67 acres (421,385 ft<sup>2</sup>) of riparian buffer and/or nutrient offset mitigation through planting and preservation of 10.86 acres of forested buffer easement along the main unnamed tributary to Falls Lake and several water conveyances that flow to UT to Falls Lake. Refer to Appendix A, Table 1 for project mitigation components and Appendix B, Figure 2 for the project component/asset map. Due to the site's location within the Upper Falls Lake Watershed, nutrient offset mitigation from this site can only be provided to offset impacts from development within the Falls Lake Watershed. In addition, riparian buffer mitigation from this site can be used to offset permitted impacts according to the Temporary Rule (15A NCAC 02B .0295) effective October 24, 2014.

The following goals of this riparian buffer/nutrient offset mitigation project are to address stressors identified in the Project watershed through the restoration of riparian buffers along the UT and its conveyances.

- Removing nonpoint sources of pollution associated with agricultural activities
- Reducing sedimentation onsite and downstream

The success of these goals are based on the following objectives;

- Removal of horses and goats from riparian areas;
- Reducing the application of agricultural materials into and adjacent to streams;
- Establishing a vegetative buffer adjacent to streams to treat surface runoff, which may contain pollutants such as sediment and/or agricultural pollutants from the adjacent landscape;
- Reducing bank erosion associated with a lack of vegetative cover; and
- Planting a diverse hardwood vegetative buffer adjacent to Site tributaries.

Project restoration activities were completed in March 2016. Refer to Appendix A, Tables 2, 3 and 4 for detailed project activity, reporting history, project contact information and project baseline information and attributes.

**Directions to the Project from Raleigh:** Take US 70 West/Glenwood Avenue toward Durham. Turn Right on NC 50 North/Creedmoor Road. Exit onto NC 98 West. Turn Right onto Southview Road and follow to T intersection. Turn Right onto Baptist Road. Turn right onto Benny Ross Road Site. Travel approximately 0.3 mile to gate on the left. Access is by foot through the gate and 50 ft. access easement See Appendix D, As-Built Sheets). Coordinates: 35.998142, -78.742794

## 2.0 PERFORMANCE STANDARDS

Performance standards were established for native forest development and diffuse flow through the riparian buffer in accordance with DWR's Administrative Code 15A NCAC 02B.0295 (Mitigation Program Requirements for Protection and Maintenance of Riparian Buffers) (NCDWR 2014 Temporary Rule). Performance standards are dependent upon the density and survival of characteristic forest species. After a minimum of five years of monitoring, an average density of 260 woody stems per acre must be surviving and diffuse flow maintained.

## 3.0 MONITORING PLAN

### 3.1 Reporting

Annual monitoring data will be reported following DMS's Riparian Buffer and Nutrient Offset Buffer Annual Monitoring Report Template (ver. 1.0) dated Feb. 2, 2014. The monitoring report shall provide a project data chronology and assist in decision making regarding project close-out. The following table outlines monitoring requirements and parameters for this project.

Required	Parameter	Quantity	Frequency	Notes
Yes	Vegetation	Quantity and location of vegetation plots will be determined by Division of Mitigation Services	Annual	Vegetation will be monitored for a period of five years or until success criteria are met. During years 2, 3 and 5 random plots will be used. Visual monitoring of the site will be done all five years
Yes	Project boundary		Annual	Locations of fence damage, vegetation damage, boundary encroachments, etc. will be mapped

### 3.2 Vegetation Monitoring

To monitor the vegetation at this site, the NC Division of Mitigation Services will use a combination of visual monitoring and random vegetation plots. Visual monitoring will be conducted during all years of monitoring to assess vegetative cover, diffuse flow and easement integrity. DMS will monitor ten (10) rotating, random 1,500 square foot vegetation plots in years 2, 3, and 5 to assess vegetative success representative of the entire mitigation area from top of bank to 200 feet from each tributary/conveyance. These ten (10) plots will provide coverage of 3% of the site each year used. In each sample plot, monitoring parameters will include species composition and density. As it was done for the baseline data collection, the vegetation plots will be randomly selected using a grid and random number generator or similar method for each of the monitoring years 2, 3 and 5. Visual observations of the percent cover of shrub and herbaceous species, diffuse flow and easement integrity will be documented by photograph and site visits.

Monitoring of site restoration efforts will be performed for five years or until performance standards are met. The first annual monitoring assessment (MY1) was completed in the fall of 2016. The vegetation has been monitored for 6 years, with the final monitoring activities concluding in 2022. The close-out for the Project will be conducted in 2023 given that the performance criteria has been met.

### 4.0 MAINTENANCE AND CONTINGENCY PLAN

DMS shall monitor the site and conduct a physical inspection of the site a minimum of once per year throughout the post-construction monitoring period until performance standards are met. These site inspections may identify site components and features that require routine maintenance. Routine maintenance should be expected most often in the first two years following site construction and may include the following:

Component/Feature	Maintenance through project close-out	Remedial Measures
Vegetation	Vegetation shall be maintained to ensure survival. Routine vegetation maintenance and repair activities may include supplemental planting. The site will also be evaluated to ensure diffuse flow is still occurring.	Any remedial activities performed will be documented in the annual monitoring reports.
Site Boundary	Site boundaries shall be identified in the field to ensure clear distinction between the mitigation site and adjacent properties. Boundaries may be identified by fence, marker, bollard, post, tree-blazing, or other means as allowed by site conditions and/or conservation easement. Boundary markers disturbed, damaged, or destroyed will be repaired and/or replaced on an as needed basis.	Any remedial activities performed will be documented in the annual monitoring reports.

### 5.0 YEAR 6 MONITORING

Based on the results of Year 2 annual monitoring, and DMS's efforts to contract with a new planting contractor to replant the Project and treat invasive vegetation, DMS did not conduct annual monitoring in 2018. The replanting of the site was completed in late February 2019. A list of species planted during the replant of the site is provided in Appendix C. Invasive treatments were last completed in August 2021. Species treated included Lespedeza.

In 2020, DMS secured a planting contractor, TerraVista Landscape Management (TerraVista), to treat invasive vegetation and replant approximately 3.27 acres of low stem density area within the easement. TerraVista began the supplemental planting on December 16, 2020 and completed the work on January 4, 2021. To maximize survivability of stems in the poor site soils, TerraVista dug 10" deep holes by hand with shovels and backfilled with 50/50 mix. Planted stems were at least 24" in height and 0.5" in caliper size. Planted species included Persimmon (*Diospyros virginiana*) and Sycamore (*Platanus occidentalis*). TerraVista was contracted to conduct independent, random vegetation transect monitoring to ensure survival of at least 300 stems per acre in the supplemental planting zones. The results of TerraVista's 2021 monitoring were included in last year's MY5 report.

Year 6 annual monitoring (MY6) was conducted in October 2022. MY6 monitoring activities included stem counts using ten (10) rotating, random 1,200 square foot vegetation plots. Other monitoring activities included visual monitoring of the project verifying the presence or absence of invasive species; checking the integrity of the easement and fencing; and taking photographs at the established photo points.

Five (5) of the ten (10) transects met the success criteria of 260 stems per acre for planted stems. One (1) of the plots that did not meet the 260 stem/acre success criteria had 254 stems/acre. In addition, monitoring was not performed in 2018 so this was the 7<sup>th</sup> year of monitoring activities since planting the site, and one would expect the stems/acre to continue to decrease as trees mature and outcompete other planted stems. With volunteer species counted (excluding Loblolly pine) every veg transect except VT3 & VT4 would meet the 260 stems/acre success criteria with densities ranging from 143 stems/acre (VT4) to 929 stems/acre (VT8). The average across the site with volunteers minus Loblolly is 471 stems/acre. The average across the site with planted stems only is 294 stems/acre. Please see Appendix C for veg tables.

The fence installed along the easement boundary is functioning as intended and any missing or damaged signs were replaced in October of 2022.

**APPENDIX A**  
**BACKGROUND TABLES**

**Table 1: Project Mitigation Components**  
**UT to Falls Lake (McDaniel Farm) DMS Project #95389**

Mitigation Components*										
Project Component	Existing Buffer SF	Restored Buffer SF	Creditable Buffer SF	Restoration Level	Mitigation Ratio (X:1)	Riparian Buffer Mitigation Credits (SF)		Nutrient Offset Credits Nitrogen (lbs)	Nutrient Offset Credits Phosphorus (lbs)	Notes/Comments
<b>Buffer</b>										
Riparian Buffer TOB-50' (Reaches A1, A2 & B) Subject Rural	0	49,393	49,393	R	1	49,393	OR	2,577.48	166.00	Restored riparian buffer for buffer or Nutrient Offset credit
Riparian Buffer 51-100' (Reaches A1, A2 & B) Subject Rural	0	82,083	82,083	R	1	82,083	OR	4,283.35	275.87	Restored riparian buffer for buffer or Nutrient Offset credit
Riparian Buffer 101-200' (Reaches A1, A2 & B) Subject Rural	0	149,557	149,557	R	1			7,804.36	502.64	Restored riparian buffer for Nutrient Offset credit only
Riparian Buffer TOB-200' Non-Subject Rural	0	72,392	72,392	R	1			3,777.65	243.30	Restored riparian buffer for Nutrient Offset credit only
Riparian Buffer TOB-100' (Reaches A1, A2 & B) Subject Rural	64,826	0	64,826	P	10	6,483				Preserved Riparian Buffer for Buffer Credit only
Riparian Buffer 101-200' (Reach A2) Subject Rural	3,134	0	3,134	P	20	157				Preserved Riparian Buffer for Buffer Credit only. Area in this zone is less than 10% of total Buffer Mitigation area. 20:1 ratio = 10:1 factoring in 50% reduction for preservation on a Subject Non-Urban stream.
<b>Totals</b>			<b>421,385</b>			<b>138,115</b>		<b>18,442.85</b>	<b>1,187.82</b>	
*All assets and credits generated in accordance with DWR Temporary Buffer Mitigation Rule (15A NCAC 02B .0295) effective October 24, 2014.										

Length and Area Summations by Mitigation Category					
Restoration Level	Stream	Riparian Wetland		Non-riparian Wetland	Creditable Buffer
	(linear feet)	(acres)		(acres)	(square feet)
		Riverine	Non-Riverine		
Restoration					353,425
Enhancement					
Enhancement I					
Enhancement II					
Creation					
Preservation					67,960
High Quality Pres					

Overall Assets Summary	
Asset Category	Overall Credits
<b>Buffer<sup>1</sup></b>	<b>138,115</b>
<b>Nutrient Offset Nitrogen (lbs/ac/30 yr)</b>	<b>18,442.85</b>
<b>Nutrient Offset Phosphorus (lbs/ac/30 yr)</b>	<b>1,187.82</b>

<sup>1</sup> Pursuant to 15A NCAC 02B .0295(n)(1) (2014 Temporary Rule), buffer mitigation credit used for buffer credit will not be used for nutrient offset credit

**Table 2. Project Activity and Reporting History  
UT to Falls Lake (McDaniel Farm) DMS Project #95389**

<b>Activity or Deliverable</b>	<b>Data Collection Complete</b>	<b>Completion or Delivery</b>
Institution Date	NA	Jun-13
404 permit date	NA	NA
Restoration Plan	Jul-15	Sep-15
Final Design – Construction Plans	Jul-15	Sep-15
Construction	NA	Mar-16
Planting	Mar-16	Mar-16
Mitigation Plan / As-built (Year 0 Monitoring – baseline)	May-16	Jun-16
Year 1 Monitoring	Oct-16	Oct-16
Year 2 Monitoring	Oct-17	Oct-17
Invasive Treatment	NA	Oct-19
Site Replant	NA	Feb-19
Invasive Treatment	NA	Jun-19
Year 3 Monitoring	Sep-19	Sep-19
Year 4 Monitoring	Aug-20	Aug-20
Supplemental Planting	NA	Jan-21
Year 5 Monitoring	Nov-21	Dec-21
Year 6 Monitoring	Oct-22	Feb-23

**Table 3. Project Contacts Table  
UT to Falls Lake (McDaniel Farm) DMS Project #95389**

<b>Designer</b>  Jeff Schaffer, DMS	<b>NC Division of Mitigation Services</b> 217 W Jones Street, Raleigh, NC 27603 (919) 707-8308
<b>Construction Contractor</b>  Andrew Dimmette	<b>Wright Contracting, LLC</b> PO Box 545, Siler City, NC 27344 (704) 219-0486
<b>Initial Planting Contractor</b>  Charlie Bruton	<b>Bruton Natural Systems, Inc.</b> PO Box 1197, Fremont, NC 27830 (919) 242-6555
<b>Supplemental Planting &amp; Invasive Contractor</b>  Jennifer Barnhill	<b>Terravista Landscape Management</b> 7213 Becky Cir., Raleigh, NC 27615 (919) 791-7840
<b>Monitoring Performers</b>  Jeremiah Dow, DMS	<b>NC Division of Mitigation Services</b> 217 W Jones Street, Raleigh, NC 27603 (919) 707-8308

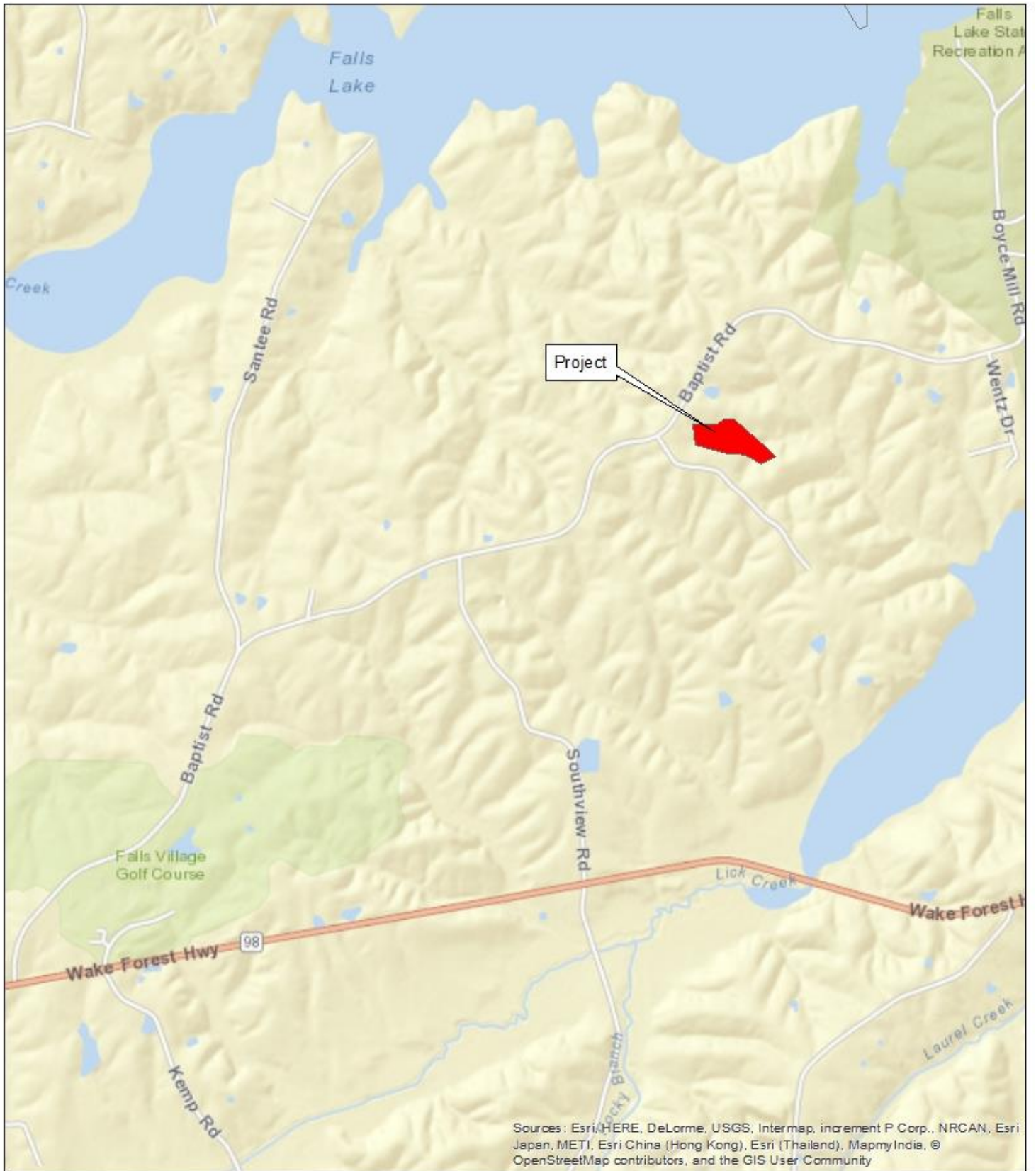


**Table 4: Project Attributes Table**

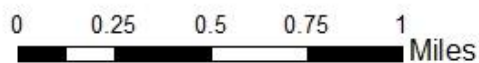
**UT to Falls Lake (McDaniel Farm) DMS Project #95389**

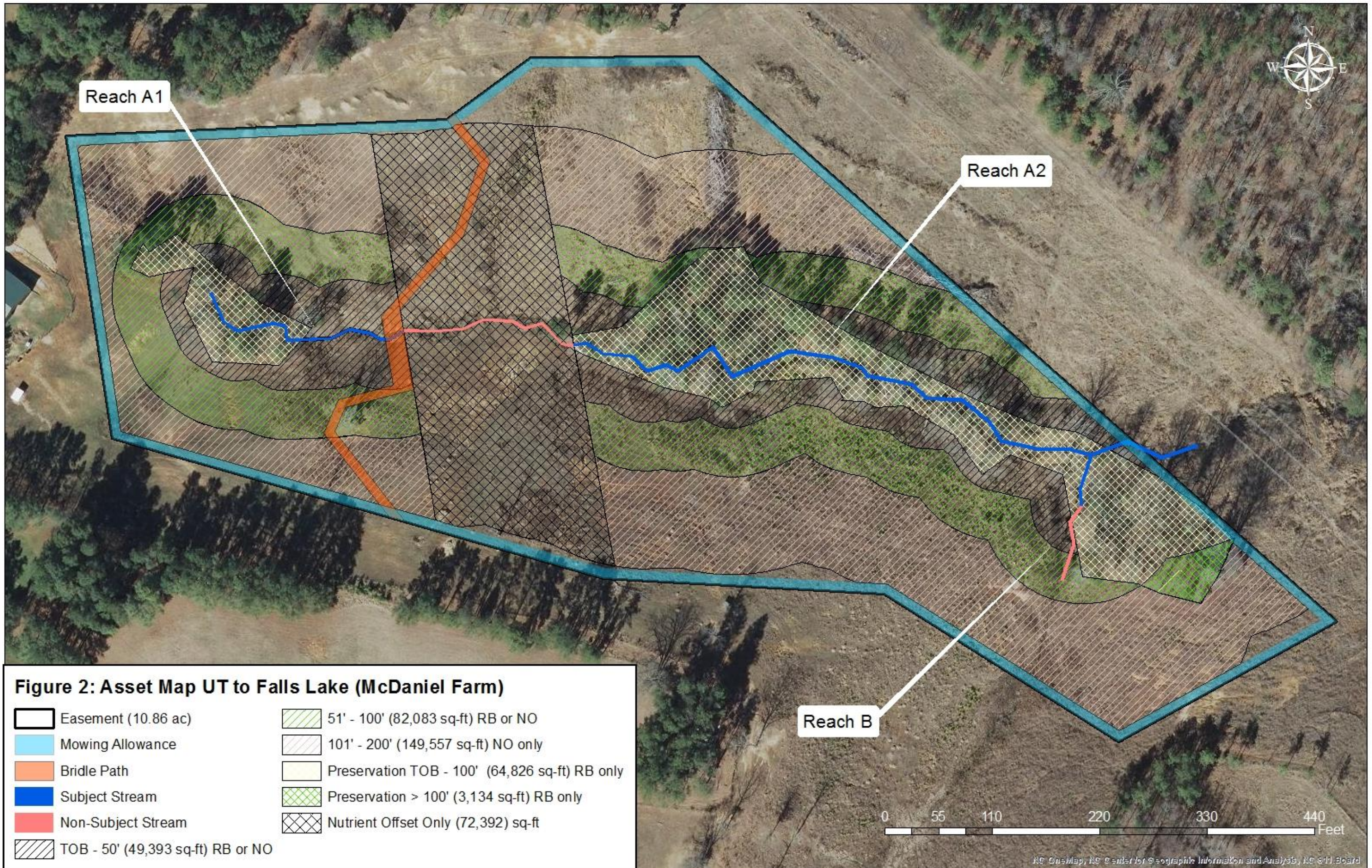
Project Information			
Project Name		UT to Falls Lake (McDaniel Farm)	
County		Durham	
Project Area (acres)		10.86	
Project Coordinates (latitude and longitude)		35.998142, -78.742794	
Planted Acreage (Acres of Woody Stems Planted)		10.86	
Project Watershed Summary Information			
Physiographic Province			
River Basin		Neuse	
USGS Hydrologic Unit 8-digit	3020201	USGS Hydrologic Unit 14-digit	03020201050030
DWR Sub-basin		03-04-01	
Project Drainage Area (acres)		21.5	
Project Drainage Area Percentage of Impervious Area		< 5%	
CGIA Land Use Classification		Majority Forested, some pasture	
Regulatory Considerations			
Parameters	Applicable?	Resolved?	Supporting Docs?
Water of the United States - Section 404	No		
Water of the United States - Section 401	No		
Endangered Species Act	No		
Historic Preservation Act	No		
Coastal Zone Management Act (CZMA or CAMA)	No		
FEMA Floodplain Compliance	No		
Essential Fisheries Habitat	No		

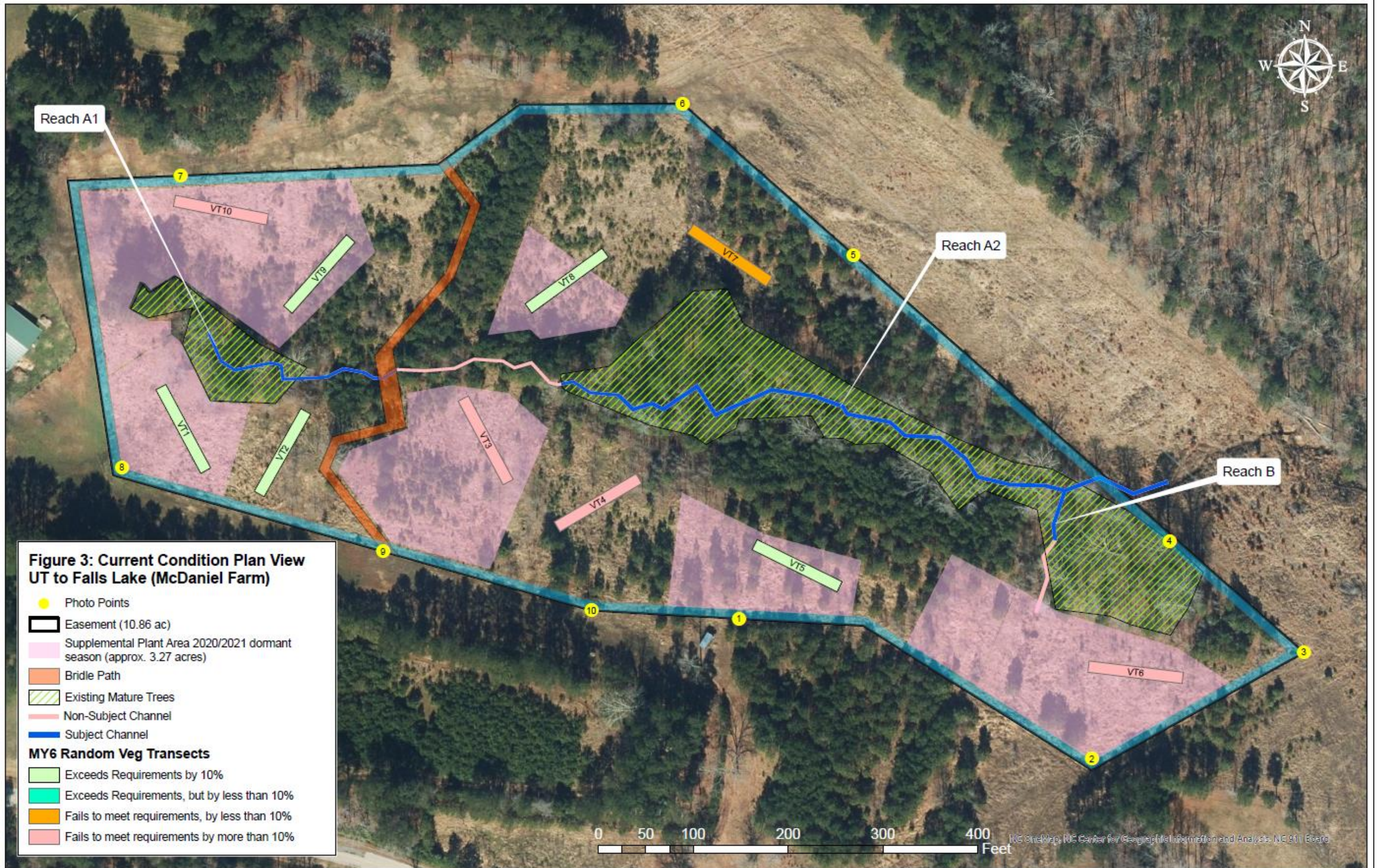
**APPENDIX B**  
**VISUAL ASSESSMENT DATA**



**FIGURE 1**  
**Project Location Map**  
**UT TO FALLS LAKE (McDANIEL FARM)**  
**Durham County, NC**







**Site Photos**



**Photo Point 1**



**Photo Point 1**



**Photo Point 1**



**Photo Point 2**



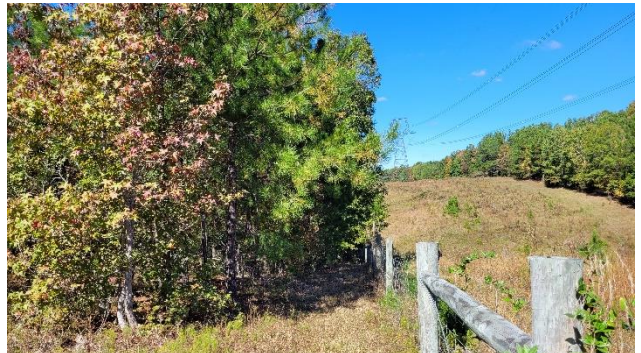
**Photo Point 2**



**Photo Point 3**



**Photo Point 3**



**Photo Point 3**



**Photo Point 4**



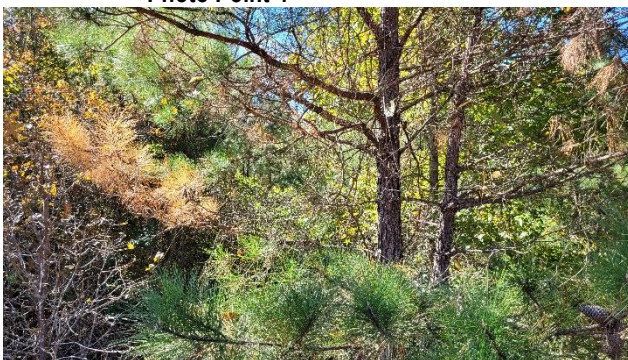
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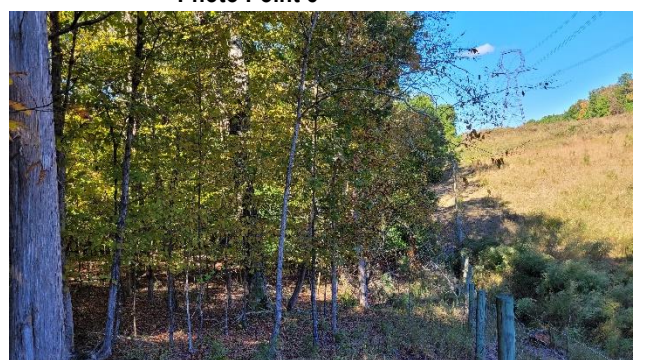
**Photo Point 4**



**Photo Point 5**



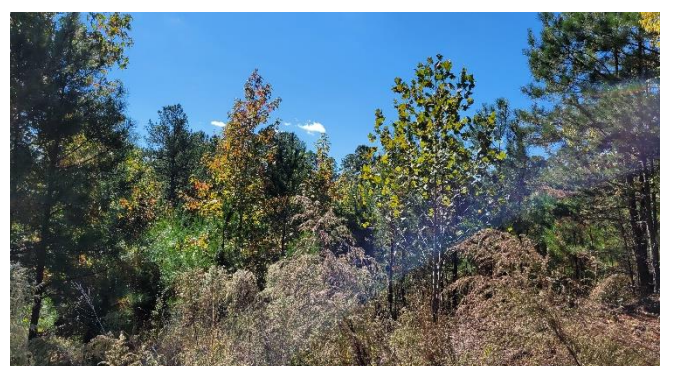
**Photo Point 5**



**Photo Point 5**



**Photo Point 6**



**Photo Point 6**



**Photo Point 6**



**Photo Point 7**



**Photo Point 7**



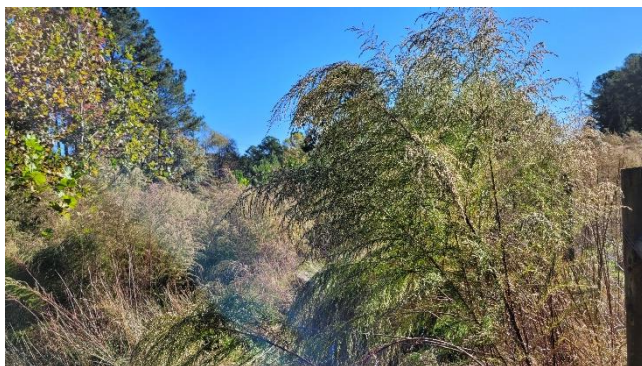
**Photo Point 7**



**Photo Point 8**



**Photo Point 8**



**Photo Point 8**



**Photo Point 9**





**Photo Point 9**



**Photo Point 9**



**Photo Point 10**



**Photo Point 10**



**Photo Point 10**

Table 5: Vegetation Condition Assessment  
 UT to Falls Lake (McDaniel Farm) DMS Project #95389  
 Planted Acreage 10.86

Vegetation Category	Definitions	Mapping Threshold	CCPV Depiction	Number of Polygons	Combined Acreage	% of Planted Acreage
1. Bare Areas	Very limited cover of both woody and herbaceous material.	0.1 acres	Pattern and Color	0	0.00	0.0%
2. Low Stem Density Areas	Woody stem densities clearly below target levels based on MY3, 4, or 5 stem count criteria.	0.1 acres	Pattern and Color	0	0.00	0.0%
<b>Total</b>				<b>0</b>	<b>0.00</b>	<b>0.0%</b>
3. Areas of Poor Growth Rates or Vigor	Areas with woody stems of a size class that are obviously small given the monitoring year.	0.25 acres	Pattern and Color	0	0.00	0.0%
<b>Cumulative Total</b>				<b>0</b>	<b>0.00</b>	<b>0.0%</b>

Easement Acreage 10.86

Vegetation Category	Definitions	Mapping Threshold	CCPV Depiction	Number of Polygons	Combined Acreage	% of Easement Acreage
4. Invasive Areas of Concern	Areas or points (if too small to render as polygons at map scale).	1000 SF	Pattern and Color	0	0.00	0.0%
5. Easement Encroachment Areas	Areas or points (if too small to render as polygons at map scale).	none	Pattern and Color	0	0.00	0.0%

1 = Enter the planted acreage within the easement. This number is calculated as the easement acreage minus any existing mature tree stands that were not subject to supplemental planting of the understory, the channel acreage, crossings or any other elements not directly planted as part of the project effort.

2 = The acreage within the easement boundaries.

3 = Encroachment may occur within or outside of planted areas and will therefore be calculated against the overall easement acreage. In the event a polygon is cataloged into items 1, 2 or 3 in the table and is the result of encroachment, the associated acreage should be tallied in the relevant item (i.e., item 1,2 or 3) as well as a parallel tally in item 5.

4 = Invasives may occur in or out of planted areas, but still within the easement and will therefore be calculated against the overall easement acreage. Invasives of concern/interest are listed below. The list of high concern species are those with the potential to directly outcompete native, young, woody stems in the short-term (e.g. monitoring period or shortly thereafter) or affect the community structure for existing, more established tree/shrub stands over timeframes that are slightly longer (e.g. 1-2 decades). The low/moderate concern group are those species that generally do not have this capacity over the timeframes discussed and therefore are not expected to be mapped with regularity, but can be mapped, if in the judgement of the observer their coverage, density or distribution is suppressing the viability, density, or growth of planted woody stems. Decisions as to whether remediation will be needed are based on the integration of risk factors by EEP such as species present, their coverage, distribution relative to native biomass, and the practicality of treatment. For example, even modest amounts of Kudzu or Japanese Knotweed early in the projects history will warrant control, but potentially large coverages of Microstegium in the herb layer will not likely trigger control because of the limited capacities to impact tree/shrub layers within the timeframes discussed and the potential impacts of treating extensive amounts of ground cover. Those species with the "watch list" designator in gray shade are of interest as well, but have yet to be observed across the state with any frequency. Those in *red italics* are of particular interest given their extreme risk/threat level for mapping as points where isolated specimens are found, particularly early in a projects monitoring history. However, areas of discreet, dense patches will of course be mapped as polygons. The symbology scheme below was one that was found to be helpful for symbolizing invasives polygons, particularly for situations where the condition for an area is somewhere between isolated specimens and dense, discreet patches. In any case, the point or polygon/area feature can be symbolized to describe things like high or low concern and species can be listed as a map inset, in legend items if the number of species are limited or in the narrative section of the executive summary.

**APPENDIX C**  
**Vegetation Plot Data**

DMS MY6 Random Veg Transects

Table 6a: Planted Tree Species

UT to Falls Lake (McDaniel Farm) DMS Project #95389

Scientific Name	Common Name	Number Planted	% of Total
<i>Acer rubrum</i>	Red Maple	1,000	17.5%
<i>Fraxinus pennsylvanica</i>	Green Ash	1,000	17.5%
<i>Platanus occidentalis</i>	Sycamore	1,000	17.5%
<i>Betula nigra</i>	River birch	1,000	17.5%
<i>Ulmus americana</i>	American Elm	1,000	17.5%
<i>Hamamelis virginiana</i>	Witch hazel	700	12.3%
<b>Total</b>		<b>5,700</b>	<b>100%</b>

Table 6b: Supplemental Planted Tree Species (2018)

Scientific Name	Common Name	Number	% of
<i>Liriodendron tulipifera</i>	Tulip poplar	700	15.6%
<i>Fraxinus pennsylvanica</i>	Green Ash	700	15.6%
<i>Platanus occidentalis</i>	Sycamore	600	13.3%
<i>Betula nigra</i>	River birch	600	13.3%
<i>Diosypros virginiana</i>	Persimmon	600	13.3%
<i>Nyssa sylvatica</i>	Black gum	600	13.3%
<i>Cercis Canadensis</i>	Red bud	700	15.6%
<b>Total</b>		<b>4,500</b>	<b>100.0%</b>

Table 6c: Supplemental Planted Tree Species (Dec. 2020)

Scientific Name	Common Name	% of
<i>Platanus occidentalis</i>	Sycamore	50.0%
<i>Diosypros virginiana</i>	Persimmon	50.0%

Table 7: Planted and Total Stems - MY4

UT to Falls Lake (McDaniel Farm) DMS Project #95389

Scientific Name	Common Name	Type	Current Year (MY6)																				Annual Means																										
			VT1		VT2		VT3		VT4		VT5		VT6		VT7		VT8		VT9		VT10		MY6 (2022)		MY5 (2021)		MY4 (2020)		MY3 (2019)		MY2 (2017)		MY1 (2016)		MY0 (2016)														
			P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T																	
<i>Acer rubrum</i>	Red Maple	Tree																																			2	2	3	3	26	26							
<i>Fraxinus pennsylvanica</i>	Green Ash	Tree																					1	1	3	3	13	13	7	7	3	3	24	24															
<i>Platanus occidentalis</i>	Sycamore	Tree	6	6	3	3	3	3	1	1	5	5							4	4			22	22	34	26	20	20	18	18	12	12	25	25	26	26													
<i>Betula nigra</i>	River birch	Tree																																					13	13	5	5	24	24	32	32			
<i>Ulmus americana</i>	American Elm	Tree																								2	1	9	9	9	9	6	6	17	17	35	35												
<i>Hamamelis virginiana</i>	Witch hazel	Tree																																								43	43	9	9	19	19	28	28
<i>Liriodendron tulipifera</i>	Tulip poplar	Tree																																															
<i>Diosypros virginiana</i>	Persimmon	Tree	2	2	10	10	3	3			3	3	1	1	3	3			4	4	1	1	27	27	9	9	28	28	14	18																			
<i>Nyssa sylvatica</i>	Black gum	Tree							1	1					3	3	3	3	12	12	5	5	1	1	25	25	24	24	47	47																			
<i>Cercis Canadensis</i>	Red bud	Tree																																															
<i>Pinus taeda</i>	Loblolly pine	Tree		27			2		9		30		5		17		6		29		28		153		170		217		165		81		46																
<i>Liquidambar styraciflua</i>	Sweet gum	Tree					2		1		1		3		11		9		14		7		51		70		36		62		85		64																
<i>Salix nigra</i>	Black Willow	Tree																																															
<i>Chamaecyparis thyoides</i>	Atlantic White Cedar	Tree								1	1	2	2					1	1			6	6			9	6	4		2		2		1															
<i>Quercus spp.</i>	Oak	Tree																																															
	Unknown	Tree																																															
	<b>Stem count</b>		8	35	13	17	6	16	3	34	10	18	4	32	7	22	12	55	14	49	4	7	81	285	70	311	114	365	110	343	41	214	91	213	171	239													
	<b>Plot size (acres)</b>		0.028		0.028		0.028		0.028		0.028		0.028		0.028		0.028		0.028		0.028		0.275		0.275		0.344		0.344		0.344		0.344		0.344		0.344												
	<b>Species Count</b>		2	3	2	4	2	4	3	5	3	5	2	4	3	5	1	3	4	6	4	5	5	8	5	9	7	9	6	9	6	11	6	12	6	9													
	<b>Stems per ACRE</b>		290	1,271	472	617	218	581	109	1,234	363	653	145	1,162	254	799	436	1,997	508	1,779	145	254	294	1035	254	1,129	331	1,061	319	996	119	621	264	618	581	1016													

Type = Tree, Shrub, Livestake

P = Planted

T = Total

Color for Density

Exceeds requirements by 10%

Exceeds requirements, but by less than 10%

Fails to meet requirements, by less than 10%

Fails to meet requirements by more than 10%