



ECOSYSTEM ENHANCEMENT PROGRAM

2004-2005 ANNUAL REPORT

Restoring... Enhancing... Protecting Our State



State of North Carolina
Michael F. Easley, Governor

A Partnership of:

North Carolina
Department of Transportation

U.S. Army Corps of Engineers,
Wilmington District

North Carolina Department of
Environment and Natural Resources



M ISSION

The mission of the Ecosystem Enhancement Program (EEP) is to restore, enhance, preserve and protect the functions associated with wetlands, streams and riparian areas, including but not limited to those necessary for the restoration, maintenance and protection of water quality and riparian habitats throughout North Carolina.



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I. The Ecosystem Enhancement Program


In July 2003, the North Carolina Department of Environment and Natural Resources (NCDENR) and the North Carolina Department of Transportation (NCDOT), along with the United States Army Corps of Engineers (USACE), signed a Memorandum of Agreement (MOA) that instituted the Ecosystem Enhancement Program (EEP). The MOA established procedures for providing compensatory mitigation to offset impacts to waters and wetlands due to transportation activities.


The Wetlands Restoration Program (WRP) was established by legislation (GS 143) in 1996 to provide compensatory mitigation— the restoration, creation, enhancement, or preservation of wetlands or other areas required as a condition of a section 404 permit issued by the USACE and to provide mitigation for any development activity that may impact wetlands. In 1998 the DENR WRP and the USACE signed a Memorandum of Understanding (MOU) that established guidelines for coordinating compensatory mitigation requirements. In 2005, House Bill 1096 officially renamed the Wetlands Restoration Program, as the Ecosystem Enhancement Program. Thus, the EEP has combined responsibilities and requirements of the MOU and G.S. 143 with responsibilities as outlined in the tri-party MOA to provide North Carolina with extensive stream and wetland mitigation.

As a combined, comprehensive program, the EEP is able to leverage resources to achieve its mission to restore, enhance, preserve and protect the functions associated with wetlands, streams and riparian areas. But, although resources are leveraged, the EEP maintains four separate funds to assess financial and programmatic accountability.

This report is intended to satisfy all annual reporting requirements as defined in G.S. 143-214.13, the MOU with USACE, and to provide a programmatic accounting of both MOA and MOU programs.

Approved by:


Bill Gilmore, Executive Director


Date



The Great Coharie Swamp, Sampson County

Acres: 4,858 acres

Acquisition date: 12/17/04

The acquisition from The Nature Conservancy protects about 4,000 acres of wetlands and more than 29 miles of streams.

The Great Coharie Swamp is an extensive cypress-gum swamp, and Great Coharie Creek is part of a high-quality blackwater stream system feeding into the Black River. Protection of the tract will contribute to filtration of runoff from adjacent hog farms

Recognition

This past fiscal year, the EEP has received significant national attention. The recognition has taken various forms, including awards, feature articles in national publications, and on-site visits from dignitaries.



In November 2004, at the invitation of DENR Secretary Bill Ross, Assistant Secretary of the Army John Paul Woodley Jr., who oversees the Civil Works section and the USACE, visited EEP sites to learn more about the program. Pictured is Col. Charles R. Alexander Jr., USACE Wilmington District Commander with Woodley at the El-lerbe Creek restoration project site. This project will improve habitat, stabilize the stream channel, reestablish efficient transport of watershed flows, reconnect the stream to the floodplain at a lower elevation, incorporate a storm-water best management practice to treat urban-runoff into the stream, and establish a riparian zone with native vegetation.

In March, the Ecosystem Enhancement Program received recognition as one of the nation's top 50 new governmental initiatives in the prestigious Innovation in American Government Awards competition. In April, EEP also earned a 2005 National Environmental Excellence Award from the National Association of Environmental Professionals for the Pasquotank Local Watershed Plan. And in June, EEP qualified as a finalist in the 2005 Innovations Awards sponsored by the Council of State Governments

Operational Strategic Planning

Operational strategic planning sets the framework for planning, land acquisitions, contracting for full delivery projects, site acquisition and the design and construction of restoration projects. Strategic planning begins with projections of unavoidable wetland, buffer and stream impacts. MOA impact projections are sent to EEP from the DOT while MOU impact needs are specified through In-Lieu fee request.

Strategic planning is a dynamic process that must be continually assessed to remain on-target with impact projections that can change over time. EEP uses impact projections to anticipate the amount, type, and location of compensatory mitigation required to satisfy requirements. Actual mitigation requirements are set by the regulatory

agencies.

Planning Initiatives

Construction of the best stream, wetland and riparian-buffer projects begins with planning. Based on long-range impact targets, EEP develops strategies for watershed-based compensatory mitigation in each of the 54 Cataloging Units (CU's) statewide. These strategies are updated annually.

EEP conducts two types of planning: Watershed Restoration Planning and Local Watershed Planning.

Watershed Restoration Plans (River Basin Restoration Priorities)

Watershed Restoration Planning begins with identification of *Targeted Local Watersheds* in each of the state's 17 river basins. Targeted Local Watersheds (14-digit Hydrologic Units) are selected based on GIS data, DWQ reports and input from local resource professionals to characterize local resource

value, watershed health and opportunities for partnering with local agencies and communities.

EEP's Planning Section is modifying its methodology for the targeting of local watersheds and/or sub-watersheds. A description of the refined methodology for CU screening and targeting of local watersheds will be posted to the EEP website (www.nceep.net) once it is finalized by the EEP Planning Section.

Along with the new methodology, the content and title of the planning document will change. New documents will be called River Basin Restoration Priorities, reflecting EEP's evolution towards a comprehensive watershed-scale approach to improve the ecological effectiveness of compensatory mitigation efforts.

During this past fiscal year, Watershed Restoration Plans were produced for the French Broad and New river basins. A River Basin Restoration Priorities Report, including the updating of Targeted Local Watersheds, is currently being developed for the Cape Fear River Basin.

Local Watershed Plans

EEP continues the development and implementation of Local Watershed Plans in high-priority 14-digit Hydrologic Units throughout North Carolina. The primary purpose of Local Watershed Plans is to identify the major causes/sources of watershed functional impacts and to develop strategies for addressing the major functional stressors, in collaboration with local resource agency professionals and other watershed stakeholders. The goal is to ensure that compensatory mitigation projects are selected and located to achieve maximum long-term benefit or uplift to local watershed functions. EEP



Citizens view Catheys Creek watershed map as part of an effort to restore an impaired watershed in the Broad River Basin



Local Watershed Plans typically take 12 to 24 months to develop using a phased approach:

Phase I – preliminary watershed characterization (largely GIS-based);

Phase II – detailed field assessment tasks; convening of local stakeholder team;

Phase III – development of watershed improvement/protection strategies, including identification and ranking of optimal restoration, protection and Best Management Practices (BMP) projects

Phase IV – additional project site evaluations and intensive landowner outreach; acquisition of permanent conservation easements for EEP project efforts

In order to support the Tri-Party MOA goal of achieving advanced mitigation, the EEP Planning Section is currently developing an abbreviated (or “fast track”) approach to the development and implementation of Local Watershed Plans that will accelerate the procurement of high-quality preservation, enhancement, and restoration projects within targeted local watersheds.

FY 2004 – 2005 Planning Results:

Completed Local Watershed Plans

During the 04-05 fiscal year, Local Watershed Plan Phases I through III were completed, for the following local watersheds (8-digit CU in parentheses):

Upper Rocky River & Coddle Creek (Lower Yadkin, 03040105)

Cathey’s Creek (Broad, 03050105)

Conetoe to Chicod Creeks and Tar River (Middle Tar-Pamlico, 03020103)

Upper Swift Creek (Upper Neuse, 03020201)

Hasketts Creek and Upper Rocky River (Upper Cape Fear, 03030003)

Harris Lake Tributaries, Kenneth & Parkers Creeks (Middle Cape Fear, 03030004)

Morgan and Little Creeks (Upper Cape Fear, 03030002)

Bald Creek (French Broad, 06010108)

South Hominy Creek (French Broad, 06010105)

New Local Watershed Plans

During the 04-05 fiscal year, Local Watershed Plans were initiated for the following local watersheds: Charlotte–area (Catawba, 03050103; focus is on identification of additional opportunities for retrofit of urban Best Management Practices)

Hiwasee River (Hiwasee, 06020002)

Upper Uwharrie (Middle Yadkin, 03040103)

Lockwoods Folly River (Lumber, 03040207)

Havelock (Neuse, 03020204)

Fishing Creek (Tar-Pamlico 03020201)



EEP planning staff presents information to local stakeholders at a watershed planning meeting.

Completed Local Watershed Plans 1999—2005

A total of 14 Local Watershed Plans have been completed since 1999, encompassing approximately 1,608 square miles. Table 1 lists the completed plans.

Ongoing Local Watershed Plans

Table 2 presents a summary of ongoing Local Watershed Plans. There are 17 plans in various stages of development and expected to be completed in 2006 and 2007. These plans encompass approximately 1,225 square miles.

Table 1: Completed Local Watershed Plans (1999 - July 2005)

River Basin	8-digit CU	14-digit HU(s) (6-digit suffix)	Approx. Square Miles	Local Watershed Name	Start Date	End Date
Lower Cape Fear	03030007	140010	80	Northeast Cape Fear River tributaries	Sept. 2000	Dec. 2002
Upper Neuse	03020201	060010	17	Lake Rogers sub-watershed	Jan. 2002	Dec. 2003
Upper Neuse	03020201	050010	37	Ellerbe Creek	Jan. 2002	Jan. 2004
Lower Yadkin	03040105	010010 and 010020	77	Upper Rocky River-Dye Branch & Clarke Creek	Dec. 2001	Feb. 2004
French Broad	06010105	030020 to 030040	113	Mud Creek	Sept. 2000	Jan. 2003
Pasquotank	03010205	050010, 010020 and 040010	370	Pasquotank River	Dec. 2001	Feb. 2004
Middle Neuse	03020203	020040	16	<i>EPA Contentnea Grant</i> – Hominy Swamp Creek	1999	May 2004
Middle Cape Fear	03030004	020010, 030010 and 040010	180	Harris Lake tributaries; Kenneth & Parkers Creeks	Spring 2003	Sept. 2004
Upper Cape Fear	03030002	060100, 060070, 060080	75	Morgan and Little Creeks	Nov. 2002	Dec. 2004
Upper Cape Fear	03030002	010010 and 010030	69	Troublesome & Little Troublesome Creeks	Nov. 2001	Feb. 2004
Upper Yadkin [West]	03040101	010080 to 010110 and 020010	137	K. Scott Lake – Lewis Fork & Warrior Creek	Nov. 2001	June 2004
Lower Yadkin	03040105	010030 010050 020010	200	Upper Rocky River, Part 2	Dec. 2002	Spring 2005
Middle Tar-Pamlico	03020103	010020 060020 050030 080010	60	Conetoe to Chicod Crks + Tar River	Fall 2003	Jun. 2005
Upper Cape Fear	03030003	070010 070020 070050	177	Upper Rocky River	Fall 2003	Jun. 2005

Table 2: On-going Local Watershed Plans

River Basin	8-digit CU	14-digit HU(s) (6-digit suffix)	Approx. Square Miles	Local Watershed Name	Start Date	Targeted End Date
Broad	03050105	070020	45	Catheys Creek	Jun. 2003	Sept. 2005
Middle to Lower Neuse	03020202	010010 010020 010021	30	Stoney Creek	Fall 2003	Sept. 2005
Lumber	03040203	030010 050010	52	Bear Swamp & Lumber River	Fall 2003	Dec. 2005
Upper Neuse	03020201	110010 110020	66	Upper Swift Creek	Fall 2003	Sept. 2006
Upper Neuse	03020201	050020	21	Little Lick Creek	Fall 2004	Dec. 2005
Lower Yadkin	03040104	010010 010020	68	Mountain & Jacobs Creeks	Fall 2003	On Hold; Possibly restart early 2006
Upper Catawba	03050101	080010 080020	98	Lower Creek	Fall 2003	Jan. 2006
New	05050001	030020	77	Little River	Fall 2003	Spring 2007
French Broad	06010108	080020	18	Bald Creek	Fall 2003	Fall 2005
French Broad	06010105	060020	38	South Hominy Creek	Fall 2003	Fall 2005
Middle Yadkin	03040103	050010 050020 050040	135	Upper Uwharrie	Apr. 2005	On Hold until early 2006
Lumber	03040207	0020010 0020030 020040 020050	50	Lockwoods Folly	Jun. 2005	Fall 2006
Neuse	03020204	030020 030050 040010 050020-40	60	Havelock	Jun. 2005	Fall 2006
Tar-Pamlico	03020201	020010 030010 030020	70	Fishing Creek	May 2005	Fall 2006
Hiwassee	06020002	090020 100040 100050 170010	39	Hiwassee River	Fall. 2005	Fall 2007
Middle Cape Fear	03030004	070010 070020	101	Cranes Creek	Dec. 2001	Spring 2006
Lower Catawba	03050101 03050103	170010 170020 020020 020050	257	Charlotte area	Feb. 2002	Jun. 2006

Design and Construction

EEP optimizes mitigation procurement efficiency by considering mitigation needs of both the MOA and MOU programs.

In FY 04-05, EEP projects have been implemented using two main procurement methods: The Full Delivery Process (FDP) and the Design-Bid-Build (DBB) process. Sections II and III provide an overview of implementation activities.

Both processes involve aspects of acquisition, design, construction and monitoring. The full delivery process involves contracting with a management firm to provide all services under one contract. For DBB projects, multiple contracts are awarded for each phase being delivered.

Phases of Project Implementation

Site Identification. On-the-ground assessment by EEP and private consultants of potential project sites. Many sites using the DBB method have been targeted in the planning process.

Site Acquisition. Landowners agree to the protection of viable project sites through donation or purchase of conservation easements, or through a fee simple purchase.

Site Assessment and Initial Design. This preliminary step involves measurement and documentation of existing conditions and current functions of viable project sites and the surrounding watershed. At this step, project goals, targeted functions and a conceptual plan are established.

Project Design. Production of a final site design plan that provides specifications and drawings for obtaining permits, defines site success criteria, and guides the construction of the project.

Site Construction. The physical structure of a site is modified (constructed) to enhance, restore or create hydrological, geomorphic, and biological components functions.

Monitoring. Collection, evaluation and reporting of data following site restoration to ensure that sites are meeting project goals. Sites must meet success criteria for five years. Sites that are not performing as expected are remediated.

Long Term Maintenance and Management. Sites require periodic inspection after monitoring is completed to ensure the conservation easement and/or project objectives are being upheld.



Photos: Payne Dairy (Jumping Run Creek) stream restoration site is a 6,997 foot project in Alexander County within the Catawba River Basin. The top photo is an aerial shot of the site prior to construction. Visible is the lack of buffer and an incised and straightened channel with open livestock access. The following photos are during and after construction, but prior to planting, with the last photo showing the relocated and more sinuous channel. This site was constructed June of 2001 (2004 photo of this site appears on the next page.)

Monitoring

Over the course of FY 04-05 the EEP monitored 39 MOU projects and 25 MOA projects for a total 64 total projects consisting of 5,969 acres of wetland, and 176,642 linear feet of stream restoration. (Table 3, p. 10).

While much of the work for this first fiscal year involved reviewing 2004 data, developing 2005 monitoring contracts and oversight of the monitoring contractors, it also involved field evaluations of all the projects by the EEP monitoring staff.



Section of Paynes Dairy Project (Jumping Run Creek), 2004 (3 years post construction).

Monitoring of restoration projects are categorized into two levels based on scale.

The first level, and currently the most prevalent, is monitoring at the *project* scale. This involves the assessment of the restoration site directly, but without necessarily characterizing change at a larger hydrologic scale.

The second level involves monitoring change in whole *watersheds or catchments*, a long-term goal of the EEP. Realization of the latter is integrally tied and dependent upon another component of the program, namely, local watershed planning. Implementation of restoration projects, riparian

Highlights of 04—05 Monitoring Activities

Vegetation

EEP's effort to improve project vegetation success has led to advancements in the following areas:

- Internal and Contractor Training
- Protocol Development and Data Management
- Design and Construction Related Document Format and Review.

Stream

Included in the monitoring format/template document produced in 2005 is a new visual assessment protocol designed to assess the status of stream stability in concert with other measures in order to provide a simple means to assess stability trends. In addition, staff have detailed other objectives targeted at improving documentation of project improvement/uplift and success. These objectives are:

- Detailed Bank Erosion Hazard Index and Near Bank Stress (BEHI and NBS) –Pre-and Post-Construction
- Net Change in Flood Storage and Mean Velocities Pre- and Post-Construction.
- Improved Stream Hydrologic monitoring.

Maintenance

The monitoring section oversees maintenance on all stream, wetland, and riparian restoration projects. Most of the maintenance to date has been vegetative replanting (on both stream and wetland restoration projects) and stream structure repair.

Restoration Data Management and Analysis

The EEP Monitoring Section is developing templates, project tracking databases, and data summary products that will link to and/or feed restoration databases to store hydrological, geomorphological, vegetative (see vegetation section above), biological, and water quality data as well as relevant watershed information. Ultimately, this database will provide a platform for analysis that will inform design, assist in the development of functional assessment measures and help to determine or refine success criteria. The design and population of this database will take 3-4 years at which time the project inventory will provide an ample data set.

Research

Two main objectives of monitoring research are to develop functional measures for wetland, stream, and riparian restoration projects, as well as demonstrate and document a net overall benefit of targeted projects in a watershed (catchment).

Current research initiatives are:

- Wetland vernal pool-amphibian research in partnership with a professor from Davidson College
- Sediment study in sand bed streams (deriving sediment rating curves)
- Collaboration with the NC Vegetative Survey-data management of vegetation information, functional indices development
- Collaboration with Surry Co. NRCS-assessment of stream restoration practices in the piedmont
- Cow Swamp LWP-catchment study

enhancement, and BMP's in a single catchment as prescribed by a strategic watershed planning effort, provides an opportunity to observe change/improvements via monitoring at the watershed scale.

Regardless of the monitoring scale, a goal of Monitoring is to characterize project success in terms of ecological function through the selection and/or development of a suite of functionally relevant measures. This involves the selection of indicators and the related measurement systems of major functional categories such as hydrologic, water quality, and habitat. To reach this goal, EEP is evaluating literature, contracting for research, developing a monitoring project database, analyzing data, and evaluating products from functional assessment work-teams within the EEP and DENR.

In support of these objectives, the EEP Monitoring Section is focused on four primary areas: 1) oversight of annual monitoring for all restoration projects; 2) oversight of maintenance for all restoration projects; 3) restoration data management and analysis; and 4) research.

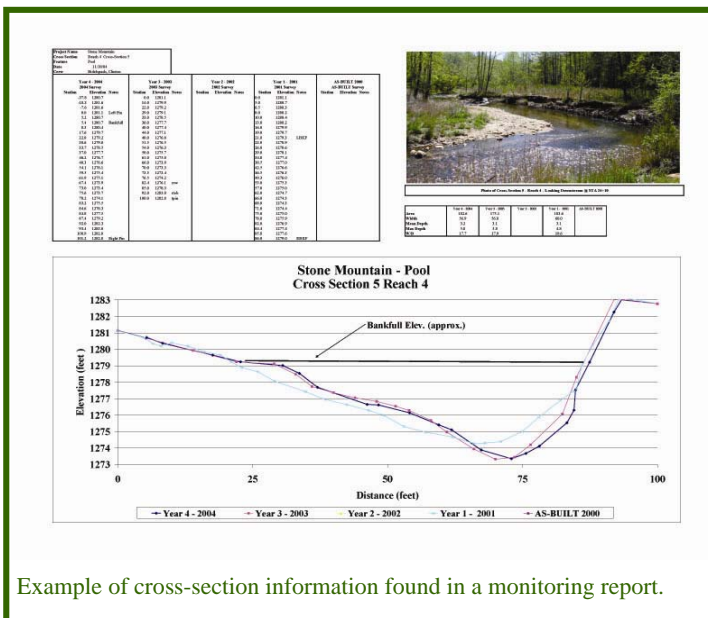
Annual monitoring reports contain hydrologic, fluvial geomorphologic, vegetative and other biological monitoring data as appropriate. A project's first annual monitoring report is submitted to EEP during the late fall after the first full growing season. Monitoring continues for at least four additional growing seasons for a total of five, or until all success criteria have been met.

Given that an important component of any monitoring program is the ability to discern trends, one critical factor in effective monitoring and the analysis of the resulting data is consistency.



Monitoring Supervisor assesses bankfull at a mountain stream project site.

Toward this end, in FY 04—05 EEP developed and distributed a detailed monitoring report template that specifies the data collection, report content and format as well as some procedural elements. The template document is designed to be comprehensive and standard, facilitating consistency between performers over the course of the five-year monitoring period. Included in this document were detailed specifications for electronic forms of submission as well, which will allow the posting of the monitoring reports and their associated summaries on the EEP website in February 2006.



Example of cross-section information found in a monitoring report.

Table 3: 2004—2005 Projects in Monitoring

Project_Name	Project Type ¹	Basin	8 Digit CU	County_Name	Stream Feet	Wetland Acreage	2004	2005	Mon Year ²
Benbow Park	S	CAPE FEAR	03030002	GUILFORD	1752	0		Y	1
Brown Bark Park	S	CAPE FEAR	03030002	GUILFORD	2834	0		Y	1
Bugaboo Creek	S	YADKIN	03040101	WILKES	6600	0		Y	1
Cato	S	YADKIN	03040105	MECKLENBURG	2200	0		Y	1
Clayhill Farm	S,W	WHITE OAK	03020106	JONES	5132	129		Y	1
Ellerbe Creek	S	NEUSE	03020201	DURHAM	6279	0		Y	1
Forest Hills	S	CAPE FEAR	03030002	DURHAM	3200	0		Y	1
Freedom Park	S	CATAWBA	03050103	MECKLENBURG	4200	0		Y	1
Kentwood Park	S	NEUSE	03020201	WAKE	1400	0		Y	1
Prestonwood G.C.	S	NEUSE	03020201	WAKE	4100	0		Y	1
Reedy Branch	S	CAPE FEAR	03030002	ALAMANCE	2400	0		Y	1
Richland Creek	S	NEUSE	03020201	WAKE	300	0		Y	1
Sheperd's Tree	S,W	YADKIN	03040102	IREDELL	4667	121.98		Y	1
UT to South Fork Creek (Hadley-Newlin)	S	CAPE FEAR	03030002	ALAMANCE	6000	0		Y	1
Wake Forest C.C.	S	NEUSE	03020201	WAKE	3400	0		Y	1
Warrior Creek	S	YADKIN	03040101	WILKES	9200	0		Y	1
Wells Creek	S	CAPE FEAR	03030002	ALAMANCE	6000	0		Y	1
Sandy Creek	S,W	CAPE FEAR	03030002	DURHAM	3000	3.2	Y	Y	2
Beaver Creek	S	YADKIN	03040101	SURRY	4300	0	Y	Y	2
Caviness	S	CAPE FEAR	03030003	RANDOLPH	3062	0		Y	2
Chavis Park	S	NEUSE	03020201	WAKE	2200	0	Y	Y	2
Clear Creek	S	FRENCH BROAD	06010105	HENDERSON	1500	0	Y	Y	2
Daniels Farm (FCWRO3)	W	TAR-PAMLICO	03020101	FRANKLIN	0	15.5	Y	Y	2
Gillespie Golf Course	S	CAPE FEAR	03030002	GUILFORD	4627	0	Y	Y	2
Hanging Rock	S	WATAUGA	3050101	AVERY	2753	0		Y	2
Hillsdale Park	S	CAPE FEAR	03030002	GUILFORD	5963	0	Y	Y	2
Key Branch	W	YADKIN	03040104	ANSON	0	18.4		Y	2
North River (Phase I)	W	WHITE OAK	03020106	CARTERET	0	250	Y	Y	2
Purlear Creek	S,W	YADKIN	03040101	WILKES	13000	4	Y	Y	2
Silas Creek	S	YADKIN	03040101	FORSYTH	4500	0	Y	Y	2
Spring Valley	S	CAPE FEAR	3030002	GUILFORD	1409	0		Y	2
Suck Creek	S	CAPE FEAR	03030003	MOORE	3000	0	Y	Y	2
Bear Swamp Creek	S	TAR-PAMLICO	03020101	FRANKLIN	1500	0	Y	Y	3
Brown Branch	S	CATAWBA	03050101	CALDWELL	5400	0	Y	Y	3
Croatian Mitigation Bank Phase II	W	NEUSE	03020204	CRAVEN	0	2565.3	Y	Y	3
Deaton	S	CAPE FEAR	03030003	RANDOLPH	505	0		Y	3
Grimesland Site (PhaseII)	W,B	TAR-PAMLICO	03020103	PITT	0	150		Y	3
County Line Creek	S	FRENCH BROAD	06010105	BUNCOMBE	3500	0	Y	Y	3
Smith/Austin Creek	S,W,B	NEUSE	03020201	WAKE	10000	0	Y	Y	3
Tulula	S,W	LITTLE TENNESSEE	06010204	GRAHAM	4683	47.84		Y	3
Lyle Creek	S	CATAWBA	03050101	CATAWBA	3200	0	Y	Y	3
Benson Grove	W	NEUSE	03020201	JOHNSTON	0	82		Y	4
Brush Creek	S	NEW	05050001	ALLEGHANY	3590	0	Y	Y	4

Table continued on next page

¹ Project Type: W– Wetland, S– Stream, B– Buffer

²The Sequential Monitoring Year since construction as of 2005

Table 3: 2004—2005 Projects in Monitoring (continued)

Project_Name	Project Type ¹	Basin	8 Digit CU	County_Name	Stream Feet	Wetland Acreage	2004	2005	Mon Year ²
Croatan Mitigation Bank Phase I	W	NEUSE	03020204	CRAVEN	0	1469.3		Y	4
Dutchman's Creek	W	NEUSE	03020201	WAKE	0	5		Y	4
Grimesland Site (Phase I)	W,B	TAR-PAMLICO	03020103	PITT	0	488		Y	4
Hominy Swamp Creek	S	NEUSE	03020203	WILSON	2232	0	Y	Y	4
Howell Woods	W	NEUSE	03020201	JOHNSTON	0	100	Y	Y	4
Jumping Run Creek (CCEC)	W	WHITE OAK	03020106	CARTERET	0	4.4	Y	Y	4
Price Park	S	CAPE FEAR	03030002	GUILFORD	1776	0	Y	Y	4
Speight Branch	W	NEUSE	03020201	WAKE	0	2.22		Y	4
White Oak	W	NEUSE RIVER	3020201	JOHNSTON	0	51		Y	4
Abbott	S	NEUSE	03020201	WAKE	584	0		Y	5
ABC	S,W	TAR-PAMLICO	03020104	PITT	4107	129		Y	5
Friedburg Marsh	W	YADKIN	03040101	FORSYTH	0	48		Y	5
Hammock's State Park	W	WHITE OAK	03020106	ONSLow	0	0.2	Y	Y	5
Mashoe's Road	W	PASQUOTANK	03010205	DARE	0	160.26		Y	5
Payne Dairy	S,W	CATAWBA	03050101	ALEXANDER	6997	0	Y	Y	5
Sandy Creek	W	CAPE FEAR	03030003	RANDOLPH	0	5.69		Y	5
Stone Mountain	S	YADKIN	03040101	WILKES	9590	0	Y	Y	5
Sturgeon City (Phase I)	W	WHITE OAK	03030001	ONSLow	0	3.5	Y	Y	5
Haw's Run	W	CAPE FEAR	03030007	PENDER	0	97.2		Y	6
Camp Lejeune USMC	W	WHITE OAK	03030001	ONSLow	0	3.5		Y	7
Mallard Creek	W	CATAWBA	03050103	MECKLENBURG	0	15		Y	8
2004 Totals					89,875	2,946	26	64	
2005 Totals					176,642	5,969			

Monitoring Results FY 04-05

In FY 04-05, EEP received Monitoring Reports for 45 projects, including 24 stream restoration projects and 25 wetland restoration projects (four projects contained both stream and wetland restoration (Table 4 p. 12). These projects totaled 93,978 linear feet of stream and 5,464 acres of wetland restoration and enhancement. Inclusive in Table 4 are summaries of the vegetative, hydrological, and stream morphological success criteria for each restoration project.

In 2004, the 45 restoration/enhancement projects showed a 64% overall success rate for the vegetative success criteria. The hydrologic criteria showed a 92% success rate for the wetland restoration projects. Stream morphological parameters showed an 80% success rate for stream restoration projects. Interestingly, of the 22 restoration projects in their 2nd or 3rd year of monitoring, 50% showed vegetative success, while all restoration projects in their 4th year or more showed an 83% success rate. Most of the vegetative replanting will be occurring on projects in their 2nd or 3rd year of monitoring and all of these projects are stream restoration projects. The current trend is that it takes vegetation several years before becoming established on most stream restoration projects. The lack in established vegetation results in increased channel/structure maintenance. EEP is working towards reversing this trend. Sparse vegetation has left a number of the stream restoration projects vulnerable.

Consequently, six stream projects are currently undergoing some degree of channel/structure maintenance (Stone Mountain, Beaver Creek, Brush Creek, Price Park, County Line Creek, and Clear Creek), and seven other stream projects will receive additional vegetation for various reasons, either in sections or throughout their easements. For instance, five projects (Hominy Swamp, Smith Austin, Gillespie, Hillsdale, and Silas Creek) will receive additional containerized woody vegetation as a result of easement encroachment and tree mortality. Two projects (Lyle and Suck Creek) have thick herbaceous layers, but must receive additional woody vegetation due to competition related mortality.

As indicated by EEP's maintenance efforts, vegetative success is difficult to achieve, particularly for stream restoration projects. EEP has developed and begun a standardized monitoring method in order to perform more accurate data gathering to measure success.

Success criteria of stream restoration projects involves the measurement of fluvial geomorphologic and vegetative parameters. Fluvial geomorphologic parameters include the measurement of channel dimension (cross-sections), pattern (sinuosity), and profile (channel slope). In addition, channel substrate is measured by performing pebble counts at identified pool and riffle cross-sections. Also, the success criteria of wetland restoration/enhancement projects includes the measurement of the hydrological and vegetative parameters. Hydrologic success is typically met when the wetland maintains a hydroperiod for 5-12% of the growing season within 12 inches of the soil surface. Vegetative success primarily focuses on the survival of vegetation within the riparian buffer of stream restoration projects or within the project area for wetland restoration projects.

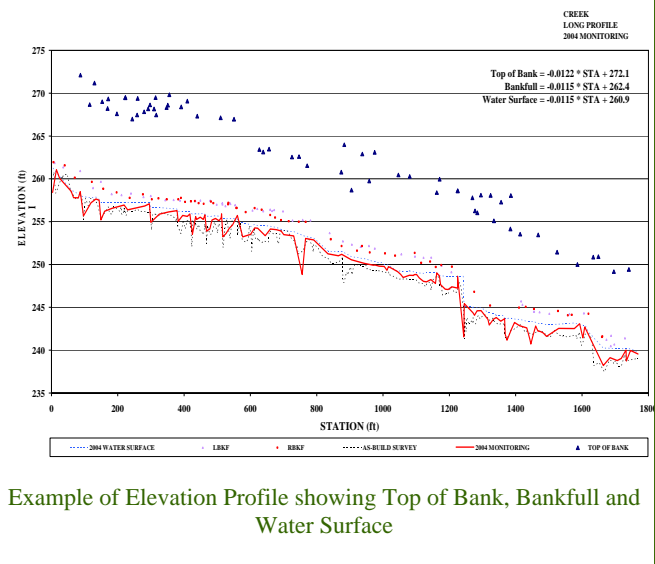


Table 4. Monitoring Results

Project Name	Basin	8 Digit HUC	County	Stream Feet	Wetland Acreage	2004 Monitoring Year	2004 Veg Success	2004 Hydro Success	2004 Stream Success
Sandy Creek	CAPE FEAR	03030002	DURHAM	3000	3.2	2	No	Yes	Yes
Beaver Creek	YADKIN	03040101	SURRY	4300	0	2	No	N/A	No
Chavis Park	NEUSE	03020201	WAKE	2200	0	2	Yes	N/A	Yes
Clear Creek	FRENCH BROAD	06010105	HENDERSON	1500	0	2	Yes	N/A	Yes
Daniels Farm (FCWRO3)	TAR-PAMLICO	03020101	FRANKLIN	0	15.5	2	Yes	Yes	N/A
Gillespie Golf Course	CAPE FEAR	03030002	GUILFORD	4627	0	2	No	N/A	Yes
Hillsdale Park	CAPE FEAR	03030002	GUILFORD	5963	0	2	No	N/A	Yes
Silas Creek	YADKIN	03040101	FORSYTH	4500	0	2	No	N/A	Yes
Suck Creek	CAPE FEAR	03030003	MOORE	3000	0	2	No	N/A	Yes
Caviness	CAPE FEAR	03030003	RANDOLPH	3062	0	2	Yes	N/A	Yes
Hanging Rock	WATAUGA	3050101	AVERY	2753	0	2	Yes	Yes	Yes
Key Branch	YADKIN	03040104	ANSON	0	18.4	2	No	Yes	Yes
Spring Valley	CAPE FEAR	3030002	GUILFORD	1409	0	2	Yes	N/A	Yes
Bear Swamp Creek	TAR-PAMLICO	03020101	FRANKLIN	1500	0	3	Yes	N/A	Yes
Brown Branch	CATAWBA	03050101	CALDWELL	5400	0	3	Yes	N/A	Yes
County Line Creek	FRENCH BROAD	06010105	BUNCOMBE	3500	0	3	No	N/A	No
Smith/Austin Creek	NEUSE	03020201	WAKE	10000	0	3	No	N/A	Yes
Lyle Creek	CATAWBA	03050101	CATAWBA	3200	0	3	No	N/A	Yes
Croatan Mitigation Bank Phase II	NEUSE	03020204	CRAVEN	0	2565.3	3	Yes	Yes	N/A
Deaton	CAPE FEAR	03030003	RANDOLPH	505	0	3	No	Yes	Yes
Grimesland Site (PhaseII)	TAR-PAMLICO	03020103	PITT	0	150	3	Yes	Yes	N/A
Tulula	LITTLE TENNESSEE	06010204	GRAHAM	4683	47.84	3	Yes	Yes	no report
Brush Creek	NEW	05050001	ALLEGHANY	3590	0	4	No	N/A	No
Hominy Swamp Creek	NEUSE	03020203	WILSON	2232	0	4	No	N/A	Yes
Howell Woods	NEUSE	03020201	JOHNSTON	0	100	4	Yes	Yes	N/A
Jumping Run Creek (CCEC)	WHITE OAK	03020106	CARTERET	0	4.4	4	Yes	Yes	N/A
Price Park	CAPE FEAR	03030002	GUILFORD	1776	0	4	No	N/A	No
Benson Grove	NEUSE	03020201	JOHNSTON	0	82	4	Yes	Yes	N/A
Croatan Mitigation Bank Phase I	NEUSE	03020204	CRAVEN	0	1469.3	4	Yes	Yes	N/A
Dutchman's Creek	NEUSE	03020201	WAKE	0	5	4	Yes	No	N/A
Grimesland Site (Phase I)	TAR-PAMLICO	03020103	PITT	0	488	4	Yes	Yes	N/A
Speight Branch	NEUSE	03020201	WAKE	0	2.22	4	Yes	N/A	Yes
White Oak	NEUSE RIVER	3020201	JOHNSTON	0	51	4	Yes	No	N/A
Hammock's State Park	WHITE OAK	03020106	ONSLow	0	0.2	5	Yes	N/A	N/A
Payne Dairy	CATAWBA	03050101	ALEXANDER	6997	0	5	No	N/A	Yes
Stone Mountain	YADKIN	03040101	WILKES	9590	0	5	No	N/A	Yes
Sturgeon City (Phase I)	WHITE OAK	03030001	ONSLow	0	3.5	5	Yes	Yes	N/A
Abbott	NEUSE	03020201	WAKE	584	0	5	Yes	Yes	N/A
ABC	TAR-PAMLICO	03020104	PITT	4107	129	5	Yes	Yes	N/A
Friedburg Marsh	YADKIN	03040101	FORSYTH	0	48	5	Yes	Yes	N/A
Mashoe's Road	PASQUOTANK	03010205	DARE	0	160.26	5	Yes	Yes	N/A
Sandy Creek	CAPE FEAR	03030003	RANDOLPH	0	5.69	5	Yes	Yes	N/A
Haw's Run	CAPE FEAR	03030007	PENDER	0	97.2	6	Yes	Yes	N/A
Camp Lejeune USMC	WHITE OAK	03030001	ONSLow	0	3.5	7	Yes	No	N/A
Mallard Creek	CATAWBA	03050103	MECKLEN-BURG	0	15	8	Yes	Yes	N/A
Total				93,978	5,464.51				

High Quality Preservation



Shaken Creek Savanna/Shelton Swamp
Acres: 1,349 Acquisition date: 4/19/00

The Shelton Swamp Creek flatwoods harbors uncommon plants and provides a wildlife connector between Holly Shelton Game Lands and Camp Lejeune Marine Base. The Nature Conservancy and other partners provided funding for this purchase.

MOA guidelines state that high-quality preservation (within the eco-region) may supplement restoration requirements during the first two years of EEP operation, at a ratio of 10:1. When EEP obtains the required restoration to offset impacts, one-half of the preservation credits utilized is placed back into the EEP “credit-bank” for application towards future requirements.

Preservation used for MOU project requirements are approved by the Preservation Review Committee prior to utilizing the site as mitigation to satisfy requirements of Section 404 permits.

The EEP’s alliance with local and regional land trusts across the state, believed to be unprecedented in the nation on this scale, harnesses the expertise, innovation and local knowledge of 22 separate trusts to promote land acquisition and open-space protection. The partnership’s aim is to provide fair economic return to landowners while achieving open-space protection

and meeting project requirements. The EEP also partners with sister agencies such as the Clean Water Management Trust Fund, Natural Heritage Trust Fund, Wildlife Resources Commission, and the Department of Agriculture Plant Conservation Program to leverage funding in order to secure these valuable natural resources.

These partnerships have resulted in protection of 33,730 acres of high quality preservation during the EEP transition period (July 2003 through June 2005) equating to 153 miles of stream and 7,507 acres of wetlands. Looking only at high quality preservation for FY 04– 05, more than 80 miles of streams and 6,900 acres of wetlands have been acquired.



Buffalo Creek Mingo

Acres 5,648 Acquisition Date: 12/12/03

Waterfalls and rugged cliffs along the headwaters are managed for public conservation uses. Partners included Clean Water Management Trust Fund, N.C. Heritage Trust and the Wildlife Resources Commission.

Preservation Status

Gross High Quality Preservation

Table 5 displays feet and acres of all High Quality Preservation (HQP) that EEP has acquired since July 2003 by eco-region. Currently, all HQP assets are MOA assets. Since 2003, EEP has protected 197 miles of stream, along with 6,735 acres of riverine wetland and 1,318 acres of non-riverine wetland.

High Quality Preservation Assets Utilized

Table 6 summarizes HQP that has been utilized for MOA mitigation requirements.

Remaining High Quality Preservation Assets

Table 7 lists the net remaining high quality preservation assets available for future debits by eco-region. Gross stream and wetland feet or acreages are subject to change as additional survey work is completed.

Across the state, EEP has net remaining high quality preservation assets of 460,633 feet of stream, 5,707 acres of riverine wetland and 986 acres of non-riverine wetland. Based on DOT impact projections, EEP anticipates that these assets will be used by the end of 2006.

*Table 7 Note. At the end of FY 04-05, the Southern Outer Coastal Plain had a deficit of 12,541 credits of stream due to not finalizing an agreement with a landowner. The land trust, landowner and state property office are still in negotiation. If an agreement is not reached, EEP will pursue another site within the eco-region that has been approved by the Preservation Review Committee and will make up for the deficit.

Table 5: Gross High Quality Preservation by Eco-region

Eco-region	Stream Feet	Riverine Wetland Acres	Non-Riverine Wetland Acres
Central Piedmont	324,093.00	160.82	34.30
Northern Inner Coastal	50,901.00	645.50	0.00
Northern Mountains	130,530.00	0.00	0.00
Northern Outer Coastal	11,819.00	305.00	250.00
Southern Inner Coastal Plain	154,660.00	4,000.00	0.00
Southern Mountains	247,096.00	30.00	0.00
Southern Outer Coastal	5,015.00	116.00	1,034.00
Southern Piedmont	116,434.00	1,477.30	0.00
TOTAL ALL ECO-	1,041,358.00	6,734.62	1,318.30

Table 6: High Quality Preservation Assets Utilized

Eco-Region	Stream Feet	Riverine Wetland Acres	Non-Riverine Wetland Acres
Central Piedmont	208,566.00	51.03	20.46
Northern Inner Coastal Plain	41,188.00	136.32	0.00
Northern Mountains	51,643.00	0.00	0.00
Northern Outer Coastal Plain	0.00	0.36	0.00
Southern Inner Coastal Plain	110,570.00	720.70	0.00
Southern Mountains	61,810.00	16.45	0.00
Southern Outer Coastal Plain	17,556.00	42.90	311.70
Southern Piedmont	101,933.00	60.20	0.00
TOTAL HQP Assets Utilized	593,266.00	1,027.96	332.16

Table 7: Remaining High Quality Preservation Assets

Eco-Region	Stream Feet	Riverine Wetland Acres	Non-Riverine Wetland Acres
Central Piedmont	116,337.00	109.99	13.84
Northern Inner Coastal Plain	9,713.00	509.18	0.00
Northern Mountains	78,887.00	0.00	0.00
Northern Outer Coastal Plain	11,819.00	304.64	250.00
Southern Inner Coastal Plain	44,090.00	3,279.30	0.00
Southern Mountains	185,286.00	13.55	0.00
Southern Outer Coastal Plain	0*	73.10	722.30
Southern Piedmont	14,501.00	1,417.10	0.00
TOTAL HQP Assets Remaining	460,633.00	5,706.86	986.14

II. Property Acquisition

In FY 04-05 the State Property Office closed on 60 properties for preservation and restoration projects, totaling 16,147.01 acres. Ten of the acquisitions were in fee simple terms and 50 were conservation easements. Table 8 lists restoration and preservation properties that have been fully acquired during the past fiscal year.

Table 8: Property Acquisition Activity During FY 04-05 Closed Properties

Project	County	Protection Type	Acreage	Date Closed
Cross Creek	Cumberland	Easement	0.05	7/21/2004
Cross Creek	Cumberland	Easement	0.51	7/21/2004
Cross Creek	Cumberland	Easement	4.06	7/21/2004
Cross Creek	Cumberland	Easement	0.04	7/30/2004
Third Fork Creek, Forest Hills	Durham	Easement	9.64	08/04/04
Little River	Perquimans	Fee Simple	48.09	9/14/2004
Adams Landing	Pasquotank	Easement	23.12	10/5/2004
Panther Creek-Cary Park	Wake	Easement	7.91	10/13/2004
Hog Branch Ponds	Brunswick	Fee Simple	516.73	12/17/2004
Shartree Subdivision	Franklin	Easement	35.61	12/20/2004
Billy's Creek	Franklin	Easement	5.03	1/7/2005
Coddle Creek	Cabbarus	Fee Simple	7.92	1/26/2005
RFP-Contentnea Buffer Phase II	Greene	Easement	50.08	2/4/2005
Hillcrest Bay	Hoke	Easement	46.66	2/11/2005
McGowan Creek	Orange	Easement	30.80	2/22/2005
Kings Creek	Transylvania	Easement	6.11	3/10/2005
Troublesome Creek	Rockingham	Easement	52.74	4/8/2005
Pickard Farms Stream	Alamance	Easement	18.31	4/13/2005
Pickard Farms Stream	Alamance	Easement	18.18	4/13/2005
Pickard Farms Stream	Alamance	Easement	14.56	4/13/2005
Whitlace Creek	Lenoir	Easement	35.81	5/31/2005
Four Mile Creek-Coffey Creek	Mecklenburg	Easement	0.78	6/16/2005
Davis Tract-Yadkin River	Davie	Easement	80.65	7/19/2004
New River Heights Tract-New River	Ashe	Fee Simple	109.91	8/27/2004
Lone Mountain-Phase Two	Rutherford	Fee Simple	751.00	9/27/2004
Cashie River-IP-Thunderbolt-Baltimore	Bertie	Easement	748.76	10/28/2004
Pickler's Bluff	Rowan	Easement	10.53	12/15/2004
Great Coharie-TNC	Sampson	Fee Simple	4,858.00	12/17/2004
Langley Site-Cypress Creek	Franklin	Easement	40.38	12/23/2004
Sandymush-Progress Energy	Buncombe	Fee Simple	2,655.00	12/28/2004
Guthrie Tract-Shelton Creek	Granville	Easement	110.54	12/29/2004
Harper Tract-Swift Creek	Franklin	Easement	27.59	12/29/2004
William O'Neal Tract-Swift Creek	Franklin	Easement	18.50	12/29/2004
TESC-Mark's Creek	Wake	Fee Simple	31.54	1/4/2005
Beaver Dam-Drowning Creek II (Rankin Tract)	Moore	Easement	1,214.00	1/7/2005
Wallace Deer Club (Blanchard Tract)	Pender	Easement	1,238.99	1/20/2005
Linville River-White Creek	Burke	Fee Simple	1,425.30	1/27/2005
Stevens Tract-Eno River	Durham	Fee Simple	70.70	2/1/2005
Hillcrest Bay	Hoke	Easement	46.66	2/11/2005
Wells Tract, Cape Fear River	Pender	Easement	99.76	2/15/2005
Wimberley Tract-Nat's Creek	Moore	Easement	34.11	3/21/2005

Continued next page

Property Acquisition Activity During FY 04-05 Closed Properties (continued)				
Project	County	Protection Type	Acreage	Date Closed
Lester Capps Tract-Shocco Creek	Franklin	Easement	19.38	3/28/2005
Lynn Capps Tract-Fishing Creek	Warren	Easement	36.78	3/28/2005
Bishop Tract-Canal Branch	Anson	Easement	78.89	4/13/2005
Elk-Shoals-Methodist Camp	Ashe	Easement	95.91	4/15/2005
Wallace Deer Club (Swinson Tract)	Pender	Easement	109.92	4/19/2005
Old Cove Tract-Green River-Burdett Property	Polk	Easement	23.98	4/21/2005
Lewis Tract, Little River	Randolph	Easement	43.56	4/29/2005
O'Neal Tract-Little Shocco Creek	Franklin	Easement	25.00	4/29/2005
Shocco Creek LLC-Little Shocco Creek	Franklin	Easement	40.43	5/3/2005
Swift Creek Wetlands	Wake	Easement	41.69	5/3/2005
Peterson Tract-Shelton Creek	Granville	Easement	40.55	5/24/2005
Tucker-Daniel 2 Tract-Shelton Creek	Granville	Easement	3.44	5/24/2005
O'Neal Tract-Little Shocco Creek	Franklin	Easement	26.01	5/31/2005
Lambert Tract-Uwharrie River Bluff	Montgomery	Easement	18.26	6/9/2005
Seagate Woods	Carteret	Easement	122.96	6/10/2005
Flat River-Horton Grove	Durham	Easement	307.28	6/17/2005
Roanoke River-IP-Blue Sky Timber Tract 42-14	Halifax	Easement	329.00	6/27/2005
Roanoke River-IP-Blue Sky Timber Tract 42-15	Halifax	Easement	263.76	6/27/2005
Green Tract-Fishing Creek	Warren	Easement	15.55	8/22/2005
Total Acres Closed FY 04-05:			16,147.01	

Table 9 lists 51 restoration and preservation properties that have an option acquired during the past fiscal year. Acreages are included for sites that have been surveyed and HQP sites. Acreages are not listed for restoration sites until the final surveys are completed just prior to closing.

Appendix A is a cumulative inventory of all properties acquired since the inception of the Wetlands Restoration Program. Cumulative acquired properties total over 37,000 acres.

In the state of North Carolina, streams and wetlands are also protected or enhanced by North Carolina State Agencies, Land Trusts, and the U.S. Fish and Wildlife Service. These activities are not part of the EEP mitigation strategy, but contribute significantly to water quality gains. A listing of FY 04 -05 non-mitigation stream, wetland and buffer projects is included in Appendix B.

Table 9: Property Acquisition Activity During FY 04-05: Properties Secured by Options

Project	County	Protection Type	Acreage	Option Date
Lower Creek (Master File-21 sites)	Caldwell	Easement		7/6/2004
Farmville Golf & Country Club	Pitt	Easement		8/11/2004
Ripshin Branch-Tate Farm	Ashe	Easement		8/14/2004
Greenville Country Club	Pitt	Easement		9/1/2004
Jacksonville Country Club Stream	Onslow	Easement		9/10/2004
UT Cane Creek-Meritor Park	Henderson	Easement		9/20/2004
Hunting Creek	Iredell	Easement		11/20/2004
Coddle Creek	Cabbarus	Easement		11/25/2004
Piedmont Equestrian Park	Gaston	Easement		12/3/2004
Brushy Fork Creek	Forsyth	Easement		12/22/2004
Coddle Creek	Cabbarus	Easement		1/5/2005
Cross Creek	Cumberland	Easement		1/24/2005
East Tarboro Canal	Edgecomb	Easement		2/14/2005
Branson Creek	Cumberland	Easement		3/14/2005
Branson Creek	Cumberland	Easement		3/15/2005
Burnt Mill Creek	New Hanover	Easement		3/15/2005
Branson Creek	Cumberland	Easement		3/20/2005
Branson Creek	Cumberland	Easement		4/4/2005
Branson Creek	Cumberland	Easement		4/5/2005
Branson Creek	Cumberland	Easement		4/11/2005
Middle Swamp Creek	Pitt	Easement		4/13/2005
Branson Creek	Cumberland	Easement		4/29/2005
Lower Creek	Caldwell	Easement		5/12/2005
Salmon Creek	Bertie	Easement		5/24/2005
Double Thumb Road-Bost Tract	Rowan	Fee Simple		5/30/2005
Coddle Creek	Cabbarus	Easement		6/6/2005
Double Thumb Road-Madden Tract	Rowan	Fee Simple		6/6/2005
South Muddy Creek-Randolph Tract	McDowell	Easement		6/6/2005
Terrible Creek	Wake	Fee Simple	48.00	6/6/2005
Green Tract-Fishing Creek	Warren	Easement	10.20	2/25/2005
M. Speed Tract-Little Shocco Creek	Warren	Easement	46.00	3/16/2005
IP/Alston Tract-Fishing Creek	Warren	Easement	171.00	3/23/2005
Alston Tracts 1, 2 & 3-Shocco Creek	Franklin	Easement	344.00	3/29/2005
Gorrell Tract-Mayo River&Buffalo Creek	Rockingham	Fee Simple	60.00	4/1/05
Grogan Tract-Mayo River	Rockingham	Fee Simple	24.60	4/1/05
Robertson Tract-Mayo River-Hickory Creek	Rockingham	Fee Simple	67.40	4/1/05
Camp Chestnut Ridge	Orange	Easement	69.00	4/3/2005
McDonald Tract-Hitchcock Creek	Richmond	Easement	35.60	4/11/2005
Walker Tract-Dutch Buffalo Creek	Cabarrus	Easement	30.00	4/11/2005
Baker Tract, Little River	Randolph	Easement	10.15	4/12/2005
Wickliff Tract-Dutch Buffalo Creek	Cabarrus	Easement	2.00	4/15/2005
Winslow Tract-North Fork Upper Tar River	Granville	Easement	34.00	5/5/2005
Grissom Tract-Barnes Creek	Montgomery	Easement	47.36	5/11/2005
Walbourn Tract, Little River	Randolph	Easement	30.44	5/12/2005
Dutch Second Creek-Hill Tract	Rowan	Easement	19.00	5/16/2005
Parrish Tract-Sandy Creek	Franklin	Easement	33.50	5/23/2005
Tucker-Daniel 1 Tract-Shelton Creek	Granville	Easement	19.50	5/23/2005
Hodges Tract-Tar River	Franklin	Easement	39.50	5/24/2005
Tomlinson Tract-Little Shocco Creek	Franklin	Easement	67.50	6/10/2005
Gibbons Tract-Pee Dee River	Anson	Easement	116.48	6/28/2005
Parker Tract, Little River	Randolph	Easement	34.00	6/28/2005

III. Restoration and Enhancement

Gross Assets

In FY 04-05 the EEP had gross assets exceeding 850,000 feet of stream and 14,900 acres of wetlands in addition to HQP assets. The table below is a summary of gross restoration assets by riverbasin and type.

Table 10: EEP Gross Assets FY 04 –05

Basin	Stream Restoration	Stream Enhancement I	Stream Enhancement II	Stream Preservation	Riverine Restoration	Riverine Creation	Riverine Enhancement	Riverine Preservation	Nonriverine Restoration	Nonriverine Creation	Nonriverine Enhancement	Nonriverine Preservation	Coastal Marsh Restoration	Coastal Marsh Creation	Coastal Marsh Enhancement	Coastal Marsh Preservation
BROAD	15,000	0	0	0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAPE FEAR	146,852	5,300	0	7,800	641.4	36.2	25.0	788.6	874.1	0.0	41.7	409.0	37.3	0.0	79.9	0.0
CATAWBA	117,460	470	2,150	0	30.6	32.8	5.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHOWAN	1,500	1,500	0	0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FRENCH BROAD	18,900	400	0	0	22.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HIWASSEE	3,900	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LITTLE TENNESSEE	16,083	0	0	0	50.8	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LUMBER	6,289	0	0	1,750	81.0	0.0	0.0	37.3	1,447.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NEUSE	131,650	4,200	0	0	471.4	1.0	189.8	387.9	1,662.1	77.2	991.8	0.0	5.6	0.0	0.2	4.9
NEW	4,875	13,490	1,750	10,550	4.0	0.0	7.4	0.0	11.9	0.0	0.0	0.3	0.0	0.0	0.0	0.0
PASQUOTANK	1,000	0	0	0	416.0	0.0	20.8	68.7	1,120.8	0.0	0.0	139.3	0.0	40.3	0.0	180.9
ROANOKE	5,300	5,000	0	10,000	0.0	0.0	0.0	557.4	52.0	0.0	1,200.0	250.0	0.0	0.0	0.0	0.0
TAR-PAMLICO	27,170	0	4,107	0	284.0	0.0	23.6	356.0	242.9	80.0	0.0	590.0	3.3	0.0	0.0	0.0
WHITE OAK	5,132	0	0	0	36.4	1.0	0.0	0.0	346.0	0.0	0.0	0.0	6.2	0.0	0.0	0.0
YADKIN	157,108	7,940	3,678	22,339	204.4	117.5	23.9	59.9	14.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0
Grand Total	748,703	38,300	11,685	52,439	2,254.0	188.6	311.8	2,258.1	5,771.1	157.2	2,241.5	1,388.6	52.4	40.3	80.1	185.9

Note: EEP’s mitigation assets and requirements are accounted for on a cataloging unit basis, not by river-basin. This table, along with table 11 are intended as a summary. A complete listing of these tables by river basin *and cataloging unit* can be found in the EEP’s Fourth Quarterly Report located on the EEP website at: <http://www.nceep.net/news/eeppublications.htm>.



Net Remaining Asset Credits

Table 11 lists asset credits by river basin for FY 04-05. These are the remaining credit assets after application of credits to compensatory mitigation requirements. Remaining asset credits are also summarized by credit amounts in the MOA and MOU programs. Assets in this table have been converted to restoration and restoration equivalents.

At the end of FY 04 –05 EEP had remaining unused assets of both restoration and restoration equivalent of:

- Stream: 479,595 credits
- Riverine: 2,609 credits
- Non-riverine: 6,091 credits
- Coastal marsh: 7,161 credits

These surplus assets represent progress that EEP has achieved to produce mitigation in advance of permits. Each of these mitigation assets will be used to offset future permit requirements. Graphs 1 and 2 show the existing net assets, outstanding requirements, and projected future mitigation needs.

Table 11: EEP Net Remaining Asset Credits, FY 04-05

River Basin	Stream Restoration	Stream Restoration Equivalent	Riverine Restoration	Riverine Restoration Equivalent	Nonriverine Restoration	Nonriverine Restoration Equivalent	Coastal Marsh Restoration	Coastal Marsh Restoration Equivalent	
Broad	13,378	0.00	2.00	0.00	0.00	0.00	0.00	0.00	
Cape Fear	151,744	1,560	570.13	150.95	897.01	166.64	37.30	26.63	
Catawba	25,509	0	21.11	0.33	0.00	0.00	0.00	0.00	
Chowan	2,250	0	1.00	0.00	0.00	0.00	0.00	0.00	
French Broad	8,427	0	19.21	5.20	0.00	0.00	0.00	0.00	
Hiwassee	3,900	0	0.00	0.00	0.00	0.00	0.00	0.00	
Little Tennessee	16,083	0	50.84	0.40	0.00	0.00	0.00	0.00	
Lumber	6,289	350	73.99	7.46	797.38	0.00	0.00	0.00	
Neuse	84,257	0	457.09	120.91	1,700.11	330.60	5.64	1.05	
New	10,540	2,110	2.32	2.45	11.90	0.05	0.00	0.00	
Pasquotank	453	0	397.02	19.14	1,113.90	27.86	20.13	36.19	
Roanoke	4,894	2,000	0.00	106.95	51.20	450.00	0.00	0.00	
Savannah	0	0	0.00	0.00	0.00	0.00	0.00	0.00	
Tar-Pamlico	25,859	0	254.01	79.07	276.82	118.00	3.30	0.00	
Watauga	0	0	0.00	0.00	0.00	0.00	0.00	0.00	
White Oak	5,981	0.00	34.48	0.00	134.20	0.00	4.62	0.00	
Yadkin	110,151	3,861.80	215.29	18.22	13.50	2.67	0.00	0.00	
Grand Totals	Total	469,714	9,881.80	2,098.49	511.07	4,996.02	1,095.82	70.98	63.87
	MOU	38,915	2,110.00	121.74	22.36	60.26	74.46	4.44	0.00
	MOA	430,799	7,771.80	1,976.75	488.71	4,935.76	1,021.36	66.55	63.87

ILF Compensatory Mitigation Programs and Status

EEP currently manages four separate In-Lieu Fee programs: 1) Stream and Wetland In Lieu Fee Program (as governed by the 1998 MOU), 2) Riparian Buffer In Lieu Fee Program, 3) Nutrient Offset In Lieu Fee Program, and 4) Stream and Wetland In-Lieu Fee Program for NCDOT (as governed by the 2003 MOA). Eligibility to participate in the EEP's In-Lieu Fee Programs is a joint decision made by the EEP and the regulatory agencies. In each of these programs, applicants make payments to EEP in lieu of providing mitigation themselves or by other means. Upon successful payment, EEP assumes the full legal responsibility for planning, developing and implementing the required types and amounts of mitigation. After successful payment, applicants are no longer liable for the mitigation associated with their payment.

The Stream and Wetland In-Lieu Fee (ILF) Program provides applicants of Section 404 Permits, Section 401 Water Quality Certifications, and/or Coastal Area Management Act Permits the option to satisfy compensatory mitigation requirements for wetland and stream impacts in all 17 North Carolina river basins through payment into EEP's In-Lieu Fee program. Payments made into the Stream and Wetland In-Lieu Fee Program are deposited into Fund 2981.

The Nutrient Offset In Lieu Fee Program is an option to meet compensatory mitigation requirements

FY04-05 Mitigation Payments into Stream and Wetland, Buffer, and Nutrient Offset ILF Programs (in credits):

Stream:	28,403.00 credits
Riparian Wetland:	28.68 credits
Non-riparian Wetland:	36.04 credits
Coastal Marsh:	0 credits
Buffer:	2,748,670.75 square feet credits
Nutrient Offset	5,262.55 pounds/acre/year

associated with nutrient offset requirements in the Neuse River Basin. Payments made into the Nutrient Offset In-Lieu Fee Program are deposited into Fund 2981-9819.

The Riparian Buffer In-Lieu Fee Program is an option to meet compensatory mitigation requirements associated with riparian buffer impacts in the Neuse, Tar-Pamlico, and Catawba river basins, and the Randleman Reservoir watershed in the Upper Cape Fear River basin. Payments are made to the Riparian Buffer Restoration Fund (Fund 2982) according to the legislated fee schedules for buffers.

The 2003 Memorandum of Agreement among the NCDENR, NCDOT, and the USACE outlines the procedures for the NCDOT to utilize the Ecosystem Enhancement Program as an In-Lieu Fee program for NCDOT's offsite stream and wetland mitigation needs and specifies performance metrics for EEP.

In FY 04-05, 192 customers made payments into the Stream and Wetland (MOU) In-Lieu Fee Program. Stream and Wetland ILF Payments totaled \$9,452,868. Of this total, 135 customers had requirements from both USACE (404) and DWQ (401), 16 customers had requirements from USACE only and 11 customers had requirements from DWQ only. Appendix C "Compensatory Mitigation Payments and Requirements" lists the individual payments and requirements, payment date, payment amount, USACE identification and DWQ Permit numbers.

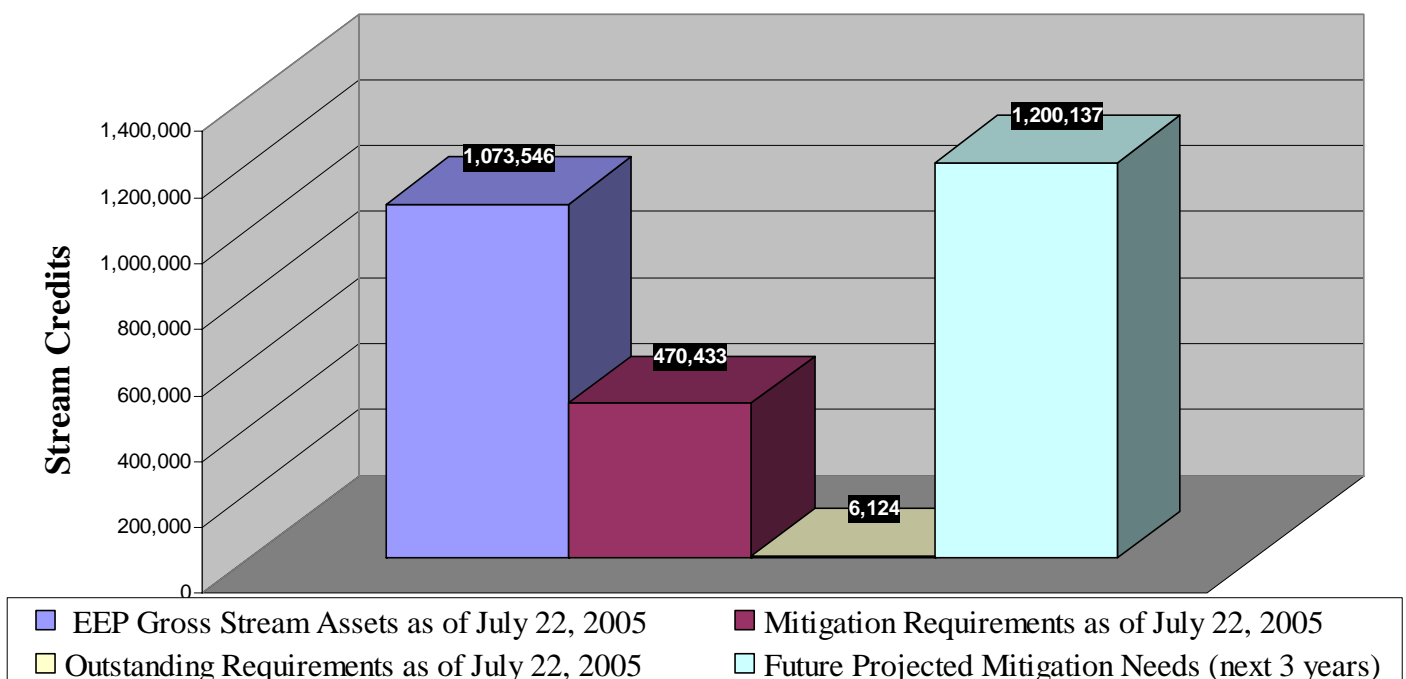
During Fiscal Year 04-05, Nutrient Offset payments were made by 233 customers located in the counties of Durham, Johnson, Orange, Wake and Wayne and the municipalities of Cary, Clayton, Durham, Garner, Goldsboro, Kinston, New Bern, Raleigh, Smithfield and Wilson. By the end of the Fiscal Year 04-05, EEP had accepted cumulative mitigation responsibility for mitigating 14,331 pounds since the program's inception.

In Fiscal Year 04-05, the EEP received payments for 2,748,670.75 square feet or 63.1 acres of buffer mitigation. At the close of the Fiscal Year, EEP had accepted responsibility for 341.84 buffer acre requirements cumulatively since the program's inception from the Cape Fear, Neuse and Tar-Pamlico.

Statewide Status of Riparian Buffer, Nutrient Offset, Stream and Wetland In Lieu Fee Programs

The graphs below and on the next page provide a statewide summary status of the stream and wetland In-Lieu Fee Programs as of July 22, 2005 (the end of EEP's transition period— not the end of FY 04-05). The graphs depict EEP current gross assets, the mitigation requirements as of July 22, 2005, outstanding mitigation requirements as of July 22, 2005, and the projected future mitigation needs that EEP expects over the next three years. Please note that the EEP tracks credits and credit requirements by program (MOU or MOA), by impact type, and by watershed cataloging unit. All mitigation credits are applied within mitigation type, within CU of impact, and within program unless the regulatory agencies have approved otherwise. In previous reports, the WRP listed statewide losses and gains using DWQ's permit information. These graphs reflect the statewide picture of EEP's programmatic gains (credits) and estimated losses (requirements). (Since mitigation requirements are typically twice as large as actual permitted impacts, the actual losses are approximately one-half the magnitude of requirements shown.)

Graph 1 **Stream ILF Programs (MOU & MOA) Status**



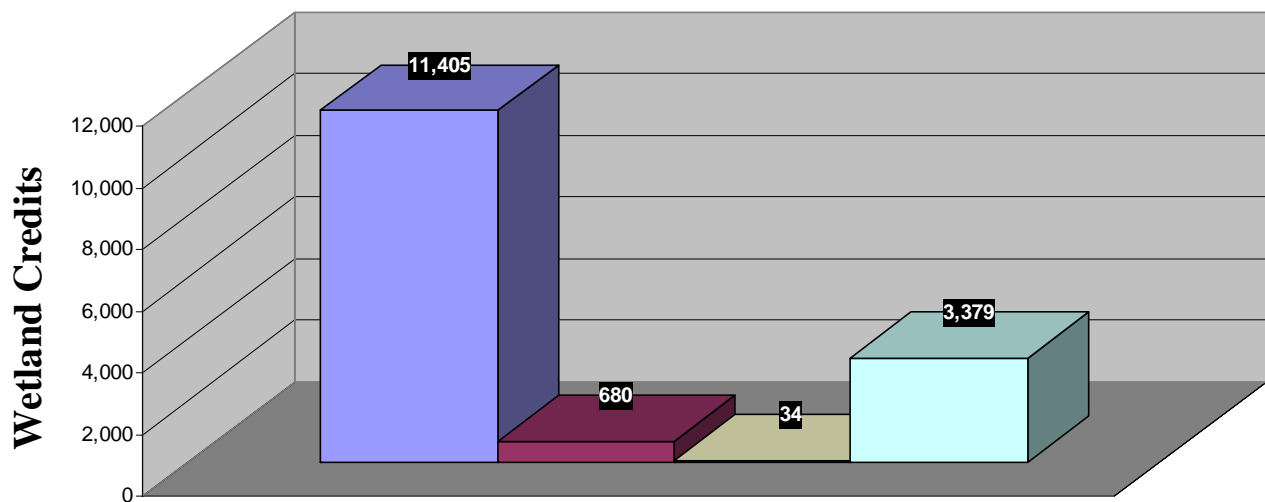
Graph 1 displays the status of the Stream In-Lieu Fee Programs (MOU and MOA). Currently EEP has instituted 1,073,546 credits of stream mitigation and accepted mitigation requirements of 470,433 credits — over twice as much as required. Excess mitigation is planned to be allocated to future needs as per agreements. Outstanding requirements equal 6,124 credits.

The outstanding requirements represent mitigation needs that are in of a different type or Cataloging Unit location than the assets instituted thus far. EEP is currently working on providing this mitigation. For more information on EEP’s strategies to provide mitigation, see EEP’s quarterly reports at www.nceep.net. ILF Stream and Wetland Compliance is also summarized in Section IV. The generation of mitigation credits in advance of mitigation requirements is a founding principle the MOA In-Lieu Fee Program for NCDOT. The surplus mitigation currently available in the program is evidence that EEP is succeeding on this front. However, future mitigation demand is expected to be very high over the next three years. As shown in the graph, NCDOT and EEP are projecting mitigation needs of 1,200,137 credits over the next three years. The vast majority of this mitigation needs (over 1.1 million credits) is due to the NCDOT’s mitigation needs and the advancement schedule outlined in the MOA.

Graph 2 displays the status of the Wetland In-Lieu Fee Programs (MOU and MOA). Currently EEP is managing instituted assets of 11,405 wetland credits with requirements equaling 680 credits. Most of these wetland assets (7,060.5 credits) originated from the NCDOT mitigation program that existed prior to EEP’s formation. These unused assets were transferred to EEP to be managed for NCDOT’s mitigation needs. Currently, outstanding requirements equal 34 wetland credits. As shown in the graph, NCDOT and EEP are projecting additional mitigation needs of 3,379 credits over the next three years. On a statewide level, EEP has achieved success for advanced mitigation. However, much of the current advanced mitigation is focused in particular cataloging units, whereas the mitigation needs are spread more evenly across the state. Thus, while some cataloging units have already achieved advanced mitigation, others will require additional wetland credit development over the coming years.

Wetland ILF Programs (MOU & MOA) Status

Graph 2



- EEP Gross Wetland Assets as of July 22, 2005
- Mitigation Requirements as of July 22, 2005
- Outstanding Mitigation Requirements as of July 22, 2005
- Future Projected Mitigation Needs (next 3 years)

The status of the Riparian Buffer In-Lieu Fee Program is illustrated in the table on the right. The Riparian Buffer ILF Program has provided all currently required buffer mitigation.

Riparian Buffer ILF Program Status FY 04—05				
	Cape Fear	Neuse	Tar-Pamlico	TOTAL
Mitigation Due	60.69	265.76	15.39	341.84
Mitigation Instituted	90	265.76	84.59	440.35

The status of the Nutrient Offset In-Lieu Fee Program is shown in the table below. EEP has accepted 14,331 lbs of nitrogen removal in the Neuse River Basin since the program’s inception. EEP has instituted projects that will reduce 15,927 pounds of nitrogen. Nutrient Offset projects are currently a combination of traditional Nutrient Offset projects and instituted Riparian Buffer Restoration projects in the Neuse River basin.

The EEP is working with NCSU to develop five new projects that will yield an additional 1,317 lbs/year to address future requirements for this program. Additionally, EEP is also working with the City of Raleigh to implement additional retrofit projects that the City has identified. Implementation of Raleigh’s projects is anticipated in November 2006.

Nutrient Offset ILF Program Status FY 04—05 (Mitigation Pounds)	
	Neuse
Mitigation Accepted	14,331
Mitigation Instituted	15,927



Example of a completed stream project—
Clear Creek, French Broad River Basin, Henderson County

IV. ILF Stream and Wetland Compliance

MOA ILF Stream and Wetland Compliance

In FY 04-05 only three restoration debits occurred to offset current mitigation requirements within the MOA program. Two of these debits were not necessary according to the Tri-Party MOA protocols but were nevertheless debited in advance of the debit-requirement date. The third (debit to Bear Creek) was debited due to a NCDOT project permit violation and was done after discussions between NCDOT, USACE and EEP. Restoration debits for accepted projects will be made in accordance with the Tri-Party MOA, which states that restoration credits shall be applied by the end of the Transition Period (July 22, 2005). Consequently, at the close of the Fiscal Year, the MOA Stream and Wetland In Lieu Fee Program was at 100% compliance. Table 12 below lists the restoration debited at the end of this fiscal year.

Table 12: MOA Restoration Assets Debited in FY 04—05

TIP Number	County	Eco-region	CU	River Basin	Acceptance Letter to USACE	Stream Mitigation	Riverine Mitigation	Non-Riverine Mitigation	Coastal Mitigation	Mitigation Site Utilized
B-3217	Onslow	SOCP	3020106	White Oak	8/29/2003	0	0	0	0.9	Sturgeon City (Surplus WRP assets)
R-2000AA/AB/AC	Wake	CP	3020201	Neuse	10/6/2003	1,177	0	0	0	Richland Creek/Paschal Golf Course
R-1030	Wayne	NICP	3020202	Neuse	04/28/2004		1.073			Bear Creek FD (DOT Site)

MOU ILF Stream and Wetland Compliance

The MOU Stream and Wetland In-Lieu Fee program had 424 requirements due as of June 30, 2005. Of these, 395 are in full compliance, 10 have partial compliance and 19 are in non-compliance. Therefore the EEP has 93.16% of all MOU projects in compliance, 2.36% in partial compliance and 4.48 % in non-compliance. Compliance would have been slightly higher had the 2005 Full Delivery projects that were awarded during the Fiscal Year been contracted in the fiscal year (see Table 14). Since the 2005 Full Delivery projects were not contracted during the Fiscal Year they were not counted as instituted assets. The 2005 Full Delivery projects awarded in June are expected to become instituted assets in August 2005. Of the 29 non-compliant requirements, 15 were related to wetland requirements, and 14 were related to stream requirements. Once the Full Delivery projects are instituted, these numbers are expected to shift to five partially compliant and 15 noncompliant .

A listing of permit requirements not in full compliance is included in Table 13. To read a narrative addressing EEP action plans for non-compliant CUs please see the 4th Quarterly Report of FY 04 – 05.

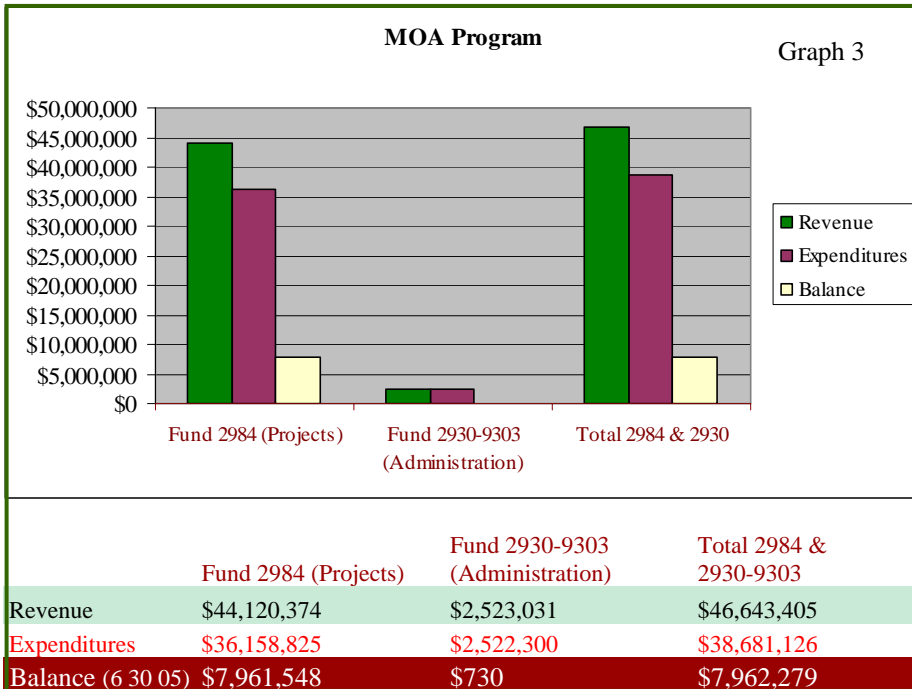
Table 13: MOU Permit Requirements Not Fully in Compliance as of June 30, 2005

River Basin	Cataloging Unit	DWQ #	USACE #	DWQ Mitigation Required	USACE Mitigation Required	Total Mitigation Required	Units	Description	Implementation Deadline	Type	Mitigation Remaining	Compliance met in Aug 2005 with FD Awards?
Cape Fear	3030002	1318	200221216	8240	8240	8240	Feet	Warm	9/14/2004	Stream	1211	Yes
		56	200320436	393	420	420	Feet	Warm	4/5/2005	Stream	420	Yes
		1822	200221142	215	0	215	Feet	Warm	4/6/2005	Stream	215	Yes
		561	200220152	298	298	298	Feet	Warm	5/5/2005	Stream	298	Yes
	3030004	1432	200220899	10519	25186	25186	Feet	Warm	9/3/2004	Stream	20499	No but 11799 more assets
		890	200000537, 200301297	285	365	365	Feet	Warm	2/1/2005	Stream	365	No
		928	200320800	133	133	133	Feet	Warm	2/18/2005	Stream	133	No
		200301187	0	200	200	Feet	Warm	6/14/2005	Stream	200	No	
Catawba	3050101	1231	200131321	17.36	17.36	17.36	Acres	Riparian	10/7/2004	Wetland	6.46	No but 5.3 more assets
		1886	200330255	0.32	0.64	0.64	Acres	Riparian	4/13/2005	Wetland	0.64	No
	3050103	1454	200330057	465	465	465	Feet	Warm	5/24/2005	Stream	10	No
		525	2004330018	290	300	300	Feet	Warm	5/26/2005	Stream	300	No
		461	200330142	270	270	270	Feet	Warm	6/29/2005	Stream	270	No
		1125	199831046	3.9	3.9	3.9	Acres	Riparian	3/6/2002	Wetland	1.65	No
		414		0.25	0	0.25	Acres	Riparian	11/18/2004	Wetland	0.25	No
		1469	200030264-271	5.94	5.94	5.94	Acres	Riparian	9/27/2002	Wetland	5.94	No
		414		0.25	0	0.25	Acres	Non Riparian	11/18/2004	Wetland	0.25	No
Little Tennessee	6010203	1502	200430209	288	288	288	Feet	Cool	1/29/2005	Stream	288	No
Roanoke	3010107	288	199500032	3	3	3	Acres	Riparian	5/20/2002	Wetland	1.5	Yes after Buy Surplus Credits
		505	199601404	0.29		0.29	Acres	Riparian	7/6/2002	Wetland	0.145	Yes after Buy Surplus Credits
		505	199601404	5.43	5.43	5.43	Acres	Riparian	9/27/2002	Wetland	2.715	Yes after Buy Surplus Credits
		578	200310529	0	0.354	0.354	Acres	Riparian	7/22/2004	Wetland	0.177	Yes after Buy Surplus Credits
		505	199601404	770	770	770	Feet	Warm	9/27/2002	Stream	770	Yes after Buy Surplus Credits
White Oak	3030001	1433	199402926	3989	3989	3989	Feet	Warm	8/28/2004	Stream	1363	No
		207	200100555, 199403372		1	1	Acres	Non Riparian	6/12/2003	Wetland	1	No
		1433	199402926	6	5.93	6	Acres	Riparian	7/8/2003	Wetland	6	No
		841	200200602	0	0.134	0.134	Acres	Riparian	5/21/2005	Wetland	0.134	No
Yadkin	3040105	656	200330386	0.731	1.43	1.43	Acres	Riparian	3/19/2005	Wetland	1.43	No
		1313	200430080	0	0.463	0.463	Acres	Non Riparian	2/3/2005	Wetland	0.463	No

Note: Shaded areas represent permit requirement that have been partially fulfilled.

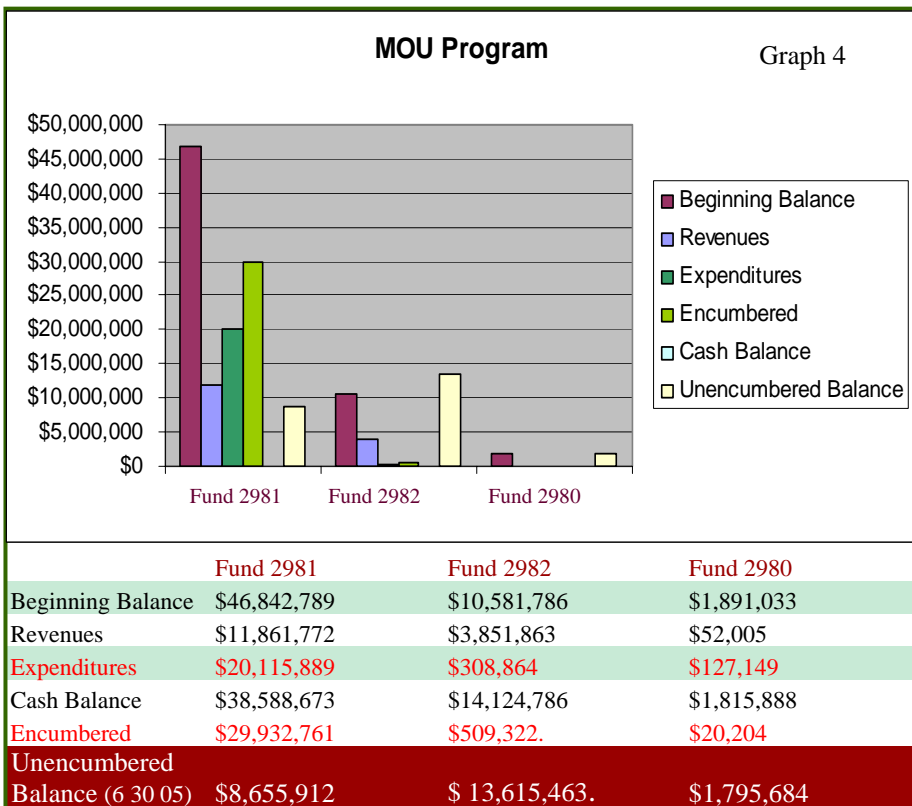
V. Revenues, Expenditures and Encumbrances

The charts and tables below depict revenues, expenditures and end-of-year balances for the MOA



program and beginning balance, revenues, expenditures, encumbered funds, fund balance, and unencumbered balance for the MOU program.

A detailed end-of-year reconciliation of Expenditures and Summary of Production for the MOA program was produced and submitted to DOT, Project Development and Environmental Analysis Branch, July 27, 2005. For a copy of this report, please contact EEP's Budget Officer.



MOU Fund 2981 includes In-Lieu Fee and the Nutrient Offset Programs. Within the total revenue of \$11,861,772- \$9,452,868 is from In-Lieu and \$1,190,827 from nutrient offset (interest totaled \$1,218,077). A listing of 2004-2005 revenues for the In-Lieu-fee program is shown in Appendix C: Compensatory Mitigation Payments & Requirements.

Fund 2982 is the Buffer Fund. * Please note that an additional encumbrance of \$12,133,138 for contracts was made in *July, 2005* which puts the current unencumbered balance at \$1,482,325.

Fund 2980 is the Wetlands Restoration Trust Fund for non-mitigation restoration and preservation projects.

Cost Analysis

The EEP utilizes two different delivery methods for project implementation, Design, Bid, Build and Full Delivery and will obtain mitigation from a mitigation bank when available. In FY 04 –05 the EEP purchased 12 non-riverine wetland credits in the White Oak 01 from the Hoffman Forest Bank.

Reporting requirements of G.S. 143 required the WRP to compare the cost of wetlands restoration on a per/acre basis between the State’s Wetlands Restoration Program and private mitigation banks. A reasonable effort was made this year to conduct a mitigation banking analysis, however, there was no response to the survey sent to mitigation banking sponsors. (A copy of the survey and listing of the sponsors is included in Appendix D and E.) Therefore, the EEP can not provide a comparative analysis of the State’s costs and those of private mitigation banks.

EEP 04- 05 Project Costs:

In FY 04 –05 the EEP obtained:

- 128,536 total feet of stream at an average of \$233.74 per foot
- 321.4 acres of riverine wetlands at an average of \$26,519 per acre
- 306.9 acres of non-riverine wetlands at an average of \$9,133 per acre
- 75 acres of buffer at an average of \$19,395 per acre, and
- 3.5 acres of coastal salt marsh wetlands at an average of \$104,000/acre
- 129,847 feet of stream from dam removal projects at an average of \$104. per foot

Stream and Wetlands Projects Cost Study

EEP has initiated a contract with UNC-Wilmington to conduct a stream and wetland project cost-analysis study that will incorporate both biophysical and economic variables. The study will result in a methodology to compare project costs with the fee schedule. This tool will be used to develop regional project cost estimates, aid in calculating yearly budgets, and provide a basis for the determination of an accurate fee schedule. The study will be completed in December 2006.



Upper Tar River Guthrie Granville County

Acres: 110.54

Acquisition date: 12/29/05

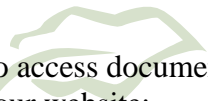
Purchase of the conservation easement on the Guthrie tract adds 110 acres to the protected riparian buffer in the area. The easement protects rare aquatic species in Shelton Creek, a state-significant natural heritage creek at its confluence with the Upper Tar River, which is a nationally significant aquatic habitat.

EEP funds helped leverage a permanent farmland easement of the upland portions of this tract. This easement was donated to the local land trust at closing.



For more information about the EEP and to access documents
referenced in this text, please visit our website:

www.nceep.net



N.C. Ecosystem Enhancement Program



Restoring... Enhancing... Protecting Our State



Appendix A. EEP Cumulative Property Inventory: Properties Closed to Date 06/30/2005

Project	County	Acreage	Type of protection	Acquisition date
Basket Creek-Wesleyan Blvd.	Nash	41.50	Easement	5/14/1997
Holloman Wetland	Greene	27.50	Easement	10/31/1997
Buckhead Subdivision	Cumberland	4.56	Easement	12/1/1998
Barra Farms	Cumberland	622.94	Easement	3/19/1999
Carteret-Craven EMC Wetland	Carteret	4.14	Easement	11/19/1999
Payne Dairy	Alexander	40.22	Easement	12/30/1999
Hoffman Forest Preservation Site	Onslow	100.00	Fee Simple	4/6/2000
Nucor Steel Mill Site	Hertford	150.27	Fee Simple	4/18/2000
Brush Creek	Alleghany	7.78	Easement	5/9/2000
Brush Creek	Alleghany	2.89	Easement	5/9/2000
Contentnea Creek, Neuse River	Greene	80.00	Easement	8/18/2000
Providence Road	Mecklenburg	8.81	Easement	9/27/2000
Providence Flat Swamp Forest	Mecklenburg	17.90	Easement	9/27/2000
Wilson Bay-Sturgeon City	Onslow	3.06	Easement	12/18/2000
Hobbs Road	Guilford	3.31	Easement	3/27/2001
Hominy Swamp Creek	Wilson	3.90	Easement	6/6/2001
Reed Creek	Buncombe	1.32	Easement	6/25/2001
Smith-Austin Creek 1	Wake	33.42	Fee Simple	9/8/2001
Smith-Austin Creek 2	Wake	3.30	Fee Simple	9/8/2001
Clear Creek	Henderson	6.40	Easement	10/16/2001
Sandy Creek	Durham	10.39	Easement	10/23/2001
Scott-Lamb Wetland	Pasquotank	22.64	Fee Simple	12/31/2001
Howell Woods	Johnston	139.86	Easement	2/8/2002
Little Beaver Creek	Wake	40.92	Easement	3/15/2002
Wike Stream	Catawba	12.42	Easement	4/19/2002
Haw River-Bouchard Preservation Site	Rockingham	95.43	Easement	5/9/2002
Mud Creek (Brevard Church Property)	Henderson	14.00	Easement	5/15/2002
Mine Site	Chatham	38.40	Easement	5/30/2002
Moncure Site	Lee	13.50	Easement	5/30/2002
County Line Stream	Buncombe	0.08	Easement	6/29/2002
County Line Stream	Henderson	6.54	Easement	6/29/2002
Murphy Farm	Franklin	4.17	Easement	7/1/2002
Boiling Springs	Brunswick	7.36	Easement	8/8/2002
Maritime Museum	Carteret	0.89	Easement	9/30/2002
Little Beaver Creek	Wake	7.50	Easement	10/2/2002
Little Bugaboo Creek	Wilkes	1.33	Easement	12/10/2002
Little Bugaboo Creek	Wilkes	0.01	Easement	12/10/2002
Louisburg Creek	Franklin	1.94	Easement	12/13/2002
East Group Buffer	Pitt	2.28	Easement	12/27/2002
Cato Stream	Mecklenburg	6.32	Easement	1/8/2003
Louisburg Creek	Franklin	1.08	Easement	1/14/2003
Little Bugaboo Creek	Wilkes	3.82	Easement	1/31/2003
Bushy Branch, (Kentwood Park)	Wake	2.91	Easement	2/10/2003
Chavis Branch, (Chavis Park)	Wake	4.63	Easement	2/10/2003
Little Bugaboo Creek	Wilkes	4.15	Easement	2/12/2003
Little Bugaboo Creek	Wilkes	1.72	Easement	3/12/2003
Carper-Harris Wetland	Pasquotank	67.81	Easement	3/14/2003
Suck Creek	Moore	9.22	Easement	3/17/2003
UT to South Fork Creek	Alamance	10.20	Easement	3/27/2003
Kiser Stream and Flood Plain	Alamance	15.53	Easement	3/27/2003
Little River Wetland	Moore	125.77	Easement	3/28/2003
Holiday/Kinnakeet Shores Lot 39, 9, 1734	Dare	0.20	Easement	5/1/2003
Big Warrior Creek	Wilkes	0.48	Easement	5/8/2003
Big Warrior Creek	Wilkes	2.59	Easement	5/12/2003

Appendix A. EEP Cumulative Property Inventory: Properties Closed to Date 06/30/2005

Project	County	Acreage	Type of protection	Acquisition date
UT to South Fork Creek	Alamance	16.30	Easement	5/16/2003
Brushy Fork Creek	Forsyth	7.88	Easement	6/17/2003
Knox Property	Mecklenburg	11.88	Easement	7/2/2003
Wells Creek	Alamance	18.05	Easement	7/15/2003
Brushy Fork Creek	Forsyth	9.65	Easement	7/17/2003
Big Warrior Creek	Wilkes	2.00	Easement	7/30/2003
DuPont Forest	Transylvania	2,223.00	Fee Simple	8/8/2003
Big Warrior Creek	Wilkes	9.11	Easement	8/13/2003
Well's Creek	Alamance	2.52	Easement	8/15/2003
Hall Branch	Richmond	5.98	Easement	8/22/2003
Big Warrior Creek	Wilkes	0.84	Easement	8/25/2003
UT to South Fork Creek	Alamance	2.52	Easement	9/2/2003
Big Warrior Creek	Wilkes	2.71	Easement	9/2/2003
Bodie Island Beach	Dare	0.03	Easement	9/12/2003
Purlear Creek	Wilkes	18.72	Easement	10/2/2003
Haw River-Cone Swamp-Phillips	Guilford	75.82	Easement	10/22/2003
Cliffs of Walnut Cove	Buncombe	19.43	Easement	10/31/2003
Self Tract 4	Dare	0.16	Easement	11/7/2003
Self Tract 3	Dare	0.19	Easement	11/7/2003
Purlear Creek	Wilkes	1.38	Easement	11/10/2003
Four Mile Creek	Mecklenburg	48.35	Easement	11/14/2003
Biltmore Technology Center	Buncombe	11.48	Easement	11/24/2003
Biltmore Farms Inc.	Buncombe	11.50	Easement	11/24/2003
Big Warrior/Little Warrior	Wilkes	14.80	Easement	12/1/2003
Silas CreekShaffner Park Property	Forsyth	15.29	Easement	12/3/2003
Lost Bridge	Macon	140.00	Fee Simple	12/9/2003
Mingo Tract	Caldwell	5,648.00	Fee Simple	12/12/2003
Eno River-Poplar Ridge (Bunting)	Orange	134.45	Fee Simple	12/16/2003
Haw River-Duke Forest	Chatham	892.98	Fee Simple	12/19/2003
Eno River Wilderness	Orange	814.87	Fee Simple	12/31/2003
Big Warrior Creek	Wilkes	2.51	Easement	1/5/2004
Rankin Tract	Gaston	506.14	Easement	1/5/2004
Snow Creek	Stokes	1.64	Easement	1/7/2004
Snow Creek	Stokes	7.29	Easement	1/7/2004
Snow Creek	Stokes	0.20	Easement	1/7/2004
Snow Creek	Stokes	3.88	Easement	1/7/2004
Kitty Hawk Woods Lot 422	Dare	0.04	Easement	1/7/2004
Danson's Grant, Lot 73	Camden	1.40	Easement	1/12/2004
Needmore Tract	Swain	4,467.00	Fee Simple	1/15/2004
Horse Creek	Wake	7.98	Easement	1/21/2004
Len's Knob & Little Mountain	Surry	2,151.94	Fee Simple	1/23/2004
Skyco Warehouse	Dare	0.06	Easement	2/9/2004
Snow Creek	Stokes	1.90	Easement	2/17/2004
North Buffalo Creek, Brown Bark Park	Guilford	8.93	Easement	2/23/2004
South Buffalo Creek, Hillsdale Park	Guilford	16.70	Easement	2/23/2004
South Buffalo Creek, Benbow Park	Guilford	4.32	Easement	2/26/2004
Mile Run Creek, Gillespie Park	Guilford	16.08	Easement	2/26/2004
Live Oak Subdivision Lots 2,3,4	Dare	0.45	Easement	3/5/2004
Cane Creek	Alamance	3.33	Easement	3/16/2004
Cane Creek	Alamance	3.73	Easement	3/16/2004
Mary's Creek	Alamance	6.81	Easement	3/17/2004
Allen Tract	Franklin	146.77	Easement	3/18/2004
Mocassin Creek	Wake	82.54	Fee Simple	5/5/2004
Mocassin Creek	Wake	82.54	Fee Simple	5/5/2004

Appendix A. EEP Cumulative Property Inventory: Properties Closed to Date 06/30/2005

Project	County	Acreage	Type of protection	Acquisition date
Drowning Creek	Moore	786.00	Easement/Fee Simple	5/20/2004
Snow Creek	Stokes	0.63	Easement	5/26/2004
Snow Creek	Stokes	0.51	Easement	5/26/2004
Holmes Hwy 12 Frisco	Dare	0.32	Easement	5/28/2004
Appleget Hwy 12 Frisco	Dare	0.09	Easement	6/8/2004
Little Table Rock	Mitchell	544.30	Easement	6/11/2004
Newton Tract-White Pines	Chatham	16.33	Easement	6/23/2004
Davis Tract-Yadkin River	Davie	80.65	Easement	7/19/2004
Cross Creek	Cumberland	0.05	Easement	7/21/2004
Cross Creek	Cumberland	0.51	Easement	7/21/2004
Cross Creek	Cumberland	4.06	Easement	7/21/2004
Cross Creek	Cumberland	0.04	Easement	7/30/2004
Third Fork Creek, Forest Hills	Durham	9.64	Easement	8/4/2004
Grant Hwy 12 Frisco	Dare	0.36	Easement	8/10/2004
Station Bay Cove	Dare	0.09	Easement	8/12/2004
New River Heights Tract-New River	Ashe	109.91	Fee Simple	8/27/2004
Kinnakeet Shores Lot 1704	Dare	0.33	Easement	9/3/2004
Little River	Perquimans	48.09	Fee Simple	9/14/2004
Lone Mountain-Phase Two	Rutherford	751.00	Fee Simple	9/27/2004
Adams Landing	Pasquotank	23.12	Easement	10/5/2004
Adams Landing	Pasquotank	23.12	Easement	10/5/2004
Panther Creek-Cary Park	Wake	7.91	Easement	10/13/2004
Cary Glen Parkway	Wake	7.91	Easement	10/13/2004
Cashie River-IP-Thunderbolt-Baltimore	Bertie	748.76	Easement	10/28/2004
Pickler's Bluff	Rowan	10.53	Easement	12/15/2004
Hog Branch Ponds	Brunswick	516.73	Fee Simple	12/17/2004
Great Coharie-TNC	Sampson	4,858.00	Fee Simple	12/17/2004
Shartree Subdivision	Franklin	35.61	Easement	12/20/2004
Langley Site-Cypress Creek	Franklin	40.38	Easement	12/23/2004
Sandymush-Progress Energy	Buncombe	2,655.00	Fee Simple	12/28/2004
Harper Tract-Swift Creek	Franklin	27.59	Easement	12/29/2004
William O'Neal Tract-Swift Creek	Franklin	18.50	Easement	12/29/2004
Guthrie Tract-Shelton Creek	Granville	110.54	Easement	12/29/2004
TESC-Mark's Creek	Wake	31.54	Fee Simple	1/4/2005
Billy's Creek	Franklin	5.03	Easement	1/7/2005
Beaver Dam-Drowning Creek II (Rankin Tract)	Moore	1,214.00	Easement	1/7/2005
Wallace Deer Club (Blanchard Tract)	Pender	1,238.99	Easement	1/20/2005
Coddle Creek	Cabbarus	7.92	Fee Simple	1/26/2005
Linville River-White Creek	Burke	1,425.30	Fee Simple	1/27/2005
Stevens Tract-Eno River	Durham	70.70	Fee Simple	2/1/2005
RFP-Contentnea Buffer Phase II	Greene	50.08	Easement	2/4/2005
Swan view Shores	Dare	0.96	Easement	2/9/2005
Hillcrest Bay	Hoke	46.66	Easement	2/11/2005
Hillcrest Bay	Hoke	46.66	Easement	2/11/2005
Wells Tract, Cape Fear River	Pender	99.76	Easement	2/15/2005
McGowan Creek	Orange	30.80	Easement	2/22/2005
Kings Creek	Transylvania	6.11	Easement	3/10/2005
Wimberley Tract-Nat's Creek	Moore	34.11	Easement	3/21/2005
Lester Capps Tract-Shocco Creek	Franklin	19.38	Easement	3/28/2005
Lynn Capps Tract-Fishing Creek	Warren	36.78	Easement	3/28/2005
Troublesome Creek	Rockingham	52.74	Easement	4/8/2005
Pickard Farms Stream	Alamance	18.31	Easement	4/13/2005
Pickard Farms Stream	Alamance	18.18	Easement	4/13/2005

Appendix A. EEP Cumulative Property Inventory: Properties Closed to Date 06/30/2005

Project	County	Acreage	Type of protection	Acquisition date
Pickard Farms Stream	Alamance	14.56	Easement	4/13/2005
Bishop Tract-Canal Branch	Anson	78.89	Easement	4/13/2005
Elk-Shoals-Methodist Camp	Ashe	95.91	Easement	4/15/2005
Wallace Deer Club (Swinson Tract)	Pender	109.92	Easement	4/19/2005
Old Cove Tract-Green River-Burdett Property	Polk	23.98	Easement	4/21/2005
Lewis Tract, Little River	Randolph	43.56	Easement	4/29/2005
O'Neal Tract-Little Shocco Creek	Franklin	25.00	Easement	4/29/2005
Swift Creek Wetlands	Wake	41.69	Easement	5/3/2005
Shocco Creek LLC-Little Shocco Creek	Franklin	40.43	Easement	5/3/2005
Tucker-Daniel 2 Tract-Shelton Creek	Granville	3.44	Easement	5/24/2005
Peterson Tract-Shelton Creek	Granville	40.55	Easement	5/24/2005
Whitelace Creek	Lenoir	35.81	Easement	5/31/2005
O'Neal Tract-Little Shocco Creek	Franklin	26.01	Easement	5/31/2005
Lambert Tract-Uwharrie River Bluff	Montgomery	18.26	Easement	6/9/2005
Seagate Woods	Carteret	122.96	Easement	6/10/2005
Four Mile Creek-Coffey Creek	Mecklenburg	0.78	Easement	6/16/2005
Flat River-Horton Grove	Durham	307.28	Easement	6/17/2005
Roanoke River-IP-Blue Sky Timber Tract 42-14	Halifax	329.00	Easement	6/27/2005
Roanoke River-IP-Blue Sky Timber Tract 42-15	Halifax	263.76	Easement	6/27/2005

Appendix B: Results of Non-Mitigation Survey for Streams, Wetlands and Buffer Projects, FY04-05

Project Name	River Basin	Buffer Preservation (acres)	Buffer Restoration (acres)	Stream Preservation (LF)	Stream Enhancement or Restoration (feet)	Wetland preservation (ac)	Wetland Enhancement (ac)	Wetland Restoration (ac)	Wetland Creation (ac)
NC CWMTF									
Foothills Conservancy of NC- Acq/ Carpenter Broad R. Tract	Broad	133		11880					
Carolina Mountain Land Conservancy- Donated Minigrant, Linneman Tract/ Green River	Broad	69		4176					
Foothills Conservancy of NC- Donated Minigrant, Stensland-Alline Tract	Broad	29							
New Hanover County - Tidal Creeks Acq	Cape Fear	9							
Sanford- Acq/ Little Buffalo Creek	Cape Fear	16		1584					
Carrboro, Town of - Acq/ Bolin Creek	Cape Fear	7.6		500					
Fayetteville, City of - Stormwater/Little Cross Cr.	Cape Fear	25							
Nature Conservancy - Acq./ Corbett Tract, NE Cape Fear	Cape Fear	133		48030		970			
NC Coastal Land Trust - Acq./ Humphrey Tract, Shaken Creek	Cape Fear	153		20650		150			
NC Coastal Land Trust - Acq./ McKeithan Tract, NE Cape Fear	Cape Fear			14010		94			
Sandyfield, Town of- Acq./ Beaverdam Creek Wetlands	Cape Fear			2555		33			
Apex, Town of- Acq./ Beaver Creek	Cape Fear	21		5589					
NC Coastal Land Trust - Acq./ Shelter Creek	Cape Fear	34		3909					
NC Coastal Land Trust - Acq/ Burnett Tract, Lord's Creek	Cape Fear			8440		98			
NC Coastal Land Trust - Acq/ Woodall Tract, Black River Project	Cape Fear	8		7564		52			
Wilmington, City of - Storm/ Hewletts Creek Shellfish	Cape Fear								7.5
NC Coastal Land Trust - Donated Minigrant/ Henry Tract, Town Creek	Cape Fear	20							
Piedmont Land Conservancy- Donated Minigrant, Coward Tract/Polecat Creek	Cape Fear	34		3780					
Mecklenburg County - Haymarket Tract/Mtn Island Lake Easement	Catawba	100		5227					
Catawba Lands & Foothills Conservancy - Acquisition/ Johnston Creek	Catawba	140							
Mecklenburg County - Stormwater/Little Sugar Cr., Belmont Branch	Catawba								4.6
Catawba Lands Conservancy- Acq./ Rollins & Banker Tracts, South Fork River	Catawba	75		7100					
Catawba Lands Conservancy - Donated Minigrant, Colt Thornburg tract/ South Fork Catawba River and Coley Creek	Catawba	27		2830					
Catawba Lands Conservancy - Donated Minigrant, Friday Farm tract/ Hoyle Creek	Catawba	65		5280					
Catawba Lands Conservancy - Acq./ Pott Creek	Catawba	32		4018					
Mt. Valleys RC&D - Rest./ Muddy Creek	Catawba	9		4000	4000				
Hickory, City of-Acq/ Lake Hickory Greenway	Catawba	10		1300					
Land of Sky COG - Acq/Planning/Restoration Design/FB	French Broad	67		19000					
Southern Appalachian Highlands Conservancy - Acq./ Reems Creek Headwaters	French Broad	482		41236					
Carolina Mountain Land Conservancy- Acq/ Buckner Tract/Dismal Creek	French Broad	60		6061					
Southern Appalachian Highlands Conservancy - Acq/ Popper Tract, Price Creek	French Broad	320		32474					
Southwestern NC RC&D, Inc. - Rest/ Pigeon River Restoration	French Broad	4		4870					
Blue Ridge Rural Land Trust - Donated Minigrant/ Coleman Tract, Handpole Branch	French Broad	30							

Appendix B: Results of Non-Mitigation Survey for Streams, Wetlands and Buffer Projects, FY04-05

Project Name	River Basin	Buffer Preservation (acres)	Buffer Restoration (acres)	Stream Preservation (LF)	Stream Enhancement or Restoration (feet)	Wetland preservation (ac)	Wetland Enhancement (ac)	Wetland Restoration (ac)	Wetland Creation (ac)
Carolina Mountain Land Conservancy - Donated	French	22		7750					
Hiwassee River Watershed Coalition, Inc - Stream Restoration Valley R	Hiwassee	6			5600				
Hiwassee River Watershed Coalition, Inc. - Rest/ Town Branch Restoration	Hiwassee	2		970	970				
Bryson City, Town of - Acq/ Lands Creek	Little Tennessee	462		41817					
Conservation Fund - Acq/ Scott Creek	Little Tennessee	2000		154202					
Southern Appalachian Highlands Conservancy - Acq/ Tuckaseegee	Little Tennessee	189		19400					
NC Wildlife Resources Commission - Acq./Needmore Tract	Little Tennessee	3400		155078					
Macon Soil & Water Conservation District - Rest./ Little Tennessee Restoration Program	Little Tennessee	4		1600	1600				
Southern Appalachian Highlands Conservancy - Donated Minigrant, Hotaling, Wolf Creek	Little Tennessee	41		2025					
Sandhills Area Land Trust - Drowning Creek Land Acq	Lumber	349		34925		65			
Lumber River Conservancy - Donated Minigrant/ CP&L Tract	Lumber	9							
Lumber River Conservancy - Donated Minigrant / Singleton Tract	Lumber					429			
Lumberton, City of - Acq./ Lumber River Greenway	Lumber	19		5000					
Lumber River Conservancy - Acq/ Upper Lumber Tracts	Lumber	233		15157					
Tryon Palace-Constructed Wetlands/ Neuse River	Neuse								0.75
Kinston, City of - Pocket Stormwater Wetland/ Peters Creek	Neuse	0.05							1.2
NC Div Parks & Recreation - Acq./Eno R. State Park	Neuse	276		21671					
Pitt Soil & Water Conservation District - Acq./Little Contentnea	Neuse	3		1155					
NC Div Forest Resources - Acq./ Clemmons Forest, Strickland Creek	Neuse	276			23680				
Triangle Land Conservancy - Acq./ Regional Park, Marks Creek	Neuse	180		12200					
Smithfield, Town of- Storm./ Spring Branch Constructed Wetland	Neuse			3450					4
Goldsboro - Acq./ Stoney Creek, Seymour Johnson AFB	Neuse	531		18281					
Conservation Fund & NC Parks & Rec- River House Acq	New	34		3256					
National Committee For The New River - Acq/ Horner Tract	New	11		1620					
National Committee For The New River - Acq./Blackburn Tract, Todd S. Fork Greenway	New	7.3		932					
Blue Ridge Rural Land Trust - Mini-Grant/ Waterfall Creek	New	165		4000					
National Committee For The New River - Acq./ Wagner Tract, Todd South Fork Greenway	New	25		2753					
Blue Ridge Rural Land Trust - Donated Minigrant, Ketchum Tract/ Piney Fork Creek	New	81		5600					
Blue Ridge Rural Land Trust - Donated Minigrant, Tate Farm/ Ripchin Creek	New	139		10100					
Blue Ridge Rural Land Trust - Donated Minigrant/ Stack Tract	New	21							
Blue Ridge Rural Land Trust - Donated Minigrant/ Chanlett Tract, Stillhouse Branch	New	24							

Appendix B: Results of Non-Mitigation Survey for Streams, Wetlands and Buffer Projects, FY04-05

Project Name	River Basin	Buffer Preservation (acres)	Buffer Restoration (acres)	Stream Preservation (LF)	Stream Enhancement or Restoration (feet)	Wetland preservation (ac)	Wetland Enhancement (ac)	Wetland Restoration (ac)	Wetland Creation (ac)
National Committee For The New River - Donated	New	38							
Blue Ridge Rural Land Trust - Donated Minigrant/ McCarthy Tract, Little Glade Creek	New	15							
High Country Conservancy - Donated Minigrant, Horseshoe Farm Tract	New	67		1800					
NC Wildlife Resources Commission - Roanoke Island II Acq & Greenway	Pasquotank					46			
Perquimans Co. Restoration Assc.-Acquisition/ Perquimans River	Pasquotank	5				10			
NC Div Parks & Recreation - Acq./ Pettigrew State Park, Scuppernong River	Pasquotank			17952		1700			
NC Wildlife Resources Commission- Acq./ Davis Tract, Alligator River	Pasquotank	33		937463		307			
NC Wildlife Resources Commission-Acq/ Pipkin Tract, Broad Creek	Pasquotank			22000		119			
Roanoke Rs- Restoration Design & Restoration/Roanoke River Tributary	Roanoke	2			1400				
NC Wildlife Resources Commission-Acq/ Hodges/Barker Tract, Country Line Creek	Roanoke	95		11388					
NC Div Parks & Recreation - Acq/ Gorges State Park, Toxaway River	Savannah	70		8987					
Greenville - Acquisition & Greenway/ Tar River & Town Creek	Tar-Pamlico	20							
NC Coastal Land Trust - Acq./ Weyerhaeuser Tract, Nevill's Creek	Tar-Pamlico	114		6630		12			
Tar River Land Conservancy - Donation Minigrant, Brittain Tract/ Lynch Creek	Tar-Pamlico	39		3100					
NC Coastal Land Trust - Acq./ Fletcher Tract, Tranter's Creek	Tar-Pamlico	26		14868		178			
NC Coastal Land Trust - Acq/ McWilliams Tract, Springer's Point	Tar-Pamlico	16		5372		75			
Pamlico-Tar River Foundation - Donated Minigrant/ Allan Tract, Blounts Bay	Tar-Pamlico	5							
Tar River Land Conservancy - Donated Minigrant, Taylor Tract	Tar-Pamlico	42		1100					
Tar River Land Conservancy - Donated Minigrant, Vaughan Tract	Tar-Pamlico	25		3550					
Blue Ridge Rural Land Trust - Acquisition/ Watauga R and tributaries	Watauga	185		19000					
High Country Conservancy - Acq./ Valle Crucis, Craborchard Creek	Watauga	77		5734					
Blue Ridge Rural Land Trust - Donated Minigrant/ Dishman Tract, Watauga River	Watauga	15							
High Country Conservancy - Donated Minigrant, Cooper Tract	Watauga	22		1500					
Emerald Isle & NC Coastal Federation- Stormwater Wetlands	White Oak	20		1168			17.5		
Ducks Unlimited - Acq/ Salt Works	White Oak	17				1384			
NC Coastal Federation - Acq./ Quaternary Tract, White Oak River	White Oak	866		43400		577			
NC Wildlife Resources Commission - Acq./ H&M Farms Tract, White Oak River	White Oak			6189		83			
NC Wildlife Resources Commission - Acq./ Lanier Tract, White Oak River	White Oak	33		9300		50			
Yadkin Basin Association- Acq/Planning/Stormwater Grants Creek	Yadkin	468		35000					
Piedmont Land Conservancy- Acquisition/ Upper and South Fork Mitchell Rivers	Yadkin	83		14900					

Appendix B: Results of Non-Mitigation Survey for Streams, Wetlands and Buffer Projects, FY04-05

Project Name	River Basin	Buffer Preservation (acres)	Buffer Restoration (acres)	Stream Preservation (LF)	Stream Enhancement or Restoration (feet)	Wetland preservation (ac)	Wetland Enhancement (ac)	Wetland Restoration (ac)	Wetland Creation (ac)
LandTrust for Central North Carolina- Acq/ Poison Fork & Barnes Cr.	Yadkin	141		3950					
NC Div Forest Resources - Acq & Restoration/ Purlear Creek	Yadkin	75		5390					
Catawba Lands Conservancy - Acq./Wilson Farm, S. Fork Catawba R.	Yadkin	49		2448					
NC Wildlife Resources Commission- Acq./ Mingo Tribal Tract, Joes Creek	Yadkin	1057		72920					
Troy, Town of - Acq./ Densons Creek, Phase IV	Yadkin	70		4742					
Blue Ridge Rural Land Trust - Donated Minigrant, Johnston Tract/ Cales and Bussels Creeks	Yadkin	72		5200					
Caldwell County - Acq./ Donahue Creek	Yadkin	168		10875					
NC Wildlife Resources Commission - Acq./ Long Ridge Tract, Buffalo Creek	Yadkin	383		30344					
NC Div Forest Resources - Rest./ Purlear Creek, Phase II	Yadkin	9.2		4000	4000				
Surry Soil & Water Conservation District - Rest./ Snow Creek Watershed	Yadkin	24		10353	10353				
Albemarle RC&D									
Newbold/White House	Pasquotank		2						1.5
Catawba Lands Conservancy									
Zimmerman Easement	Yadkin	3.7							
Bragg East Easement	Yadkin	86.2							
Big Sky Easement	Catawba	41.3							
Hoyle Easement	Catawba	32.5							
Pinhook Preserve	Catawba	12.8							
NC Div. of Coastal Management									
Preyer-Buckridge Preserve	Pasquotank						18,652		
NC DSWC - CREP									
Numerous Restoration Projects	Chowan,		12,405					1,191	
NC Wildlife Resources Comm.									
Duncan Site	Catawba				1,300				
NPS/BRP-Meadow Fork	New				815				
NPS/BRP-Little Glade Crk	New				752				
NPS/BRP - Peak Creek and UT	New				250				
Triangle Land Conservancy									
Mark's Creek - Holly Tract	Neuse	72		7,700					
White Pines Preserve - Hearn Tracts	Cape Fear	88.5		10,200					
White Pines - Newton Tract	Cape Fear	13		1,400					
TESC	Neuse			5,440		17.9			
Horton Grove Preserve	Cape Fear	225		20,000					
Hanson Tract	Cape Fear		35.2	5,010					
Haw River - Hawthorn Tract	Cape Fear	37.1		7,010					
New Hope Crk - Mortgage & Realty	Cape Fear	5		1,010					
New Hope Crk - Penny Tract	Cape Fear	19.6		2,580					
New Hope Crk - Trinity School	Cape Fear	14		1,950					
US F&WS - Pocosin Lakes NWR									
Pocosin Lakes - Atlantic White Cedar restoration	Neuse,						330	800	
	TOTALS	15,586	12,442	2,171,928	54,720	6,450	19,000	1,991	19.6

Appendix C: Compensatory Mitigation Payments & Requirements

Payment Date	Payment Amount	USACE ID	DWQ Permit #	Stream l/ft	Riparian Wetland acres	Non Riparian Wetland acres	Inner Buffer sq/ft	Outer Buffer sq/ft	Coastal Marsh acres
7/1/2004	\$175.00	200411064		0.00	0.00	0.00	0.00	0.00	0.00
7/2/2004	\$172.80		20040283	0.00	0.00	0.00	0.00	180.00	0.00
7/26/2004	\$52,593.60		2004-825	0.00	0.00	0.00	39,936.00	0.00	0.00
7/26/2004	\$26,875.00	200321139	2002-1384	215.00	0.00	0.00	0.00	0.00	0.00
7/26/2004	\$262.50	200231303	20021389						
7/26/2004	\$47,400.00	200430362	2004-32	237.00	0.00	0.00	0.00	0.00	0.00
7/26/2004	\$24,000.00	200301091	2003-1183	0.00	0.91	0.00	0.00	0.00	0.00
7/26/2004	\$87.50	200411314	20040245	0.00	0.00	0.00	0.00	0.00	0.00
7/26/2004	\$36,000.00		2002-1380	0.00	0.00	2.80	0.00	0.00	0.00
7/30/2004	\$12,276.00		2003-689	0.00	0.25	0.00	0.00	0.00	0.00
7/30/2004	\$71,000.00	200430650	2004-379	295.00	0.43	0.00	0.00	0.00	0.00
8/2/2004	\$49,400.00	200420064	2003-1392	217.00	0.14	0.00	0.00	0.00	0.00
8/2/2004	\$596.16		2004-936	0.00	0.00	0.00	621.00	0.00	0.00
8/3/2004	\$61,295.00	200321321	2004-621	299.00	0.00	0.00	0.00	0.00	0.00
8/3/2004	\$83,200.00	200420552	2003-1570	416.00	0.00	0.00	0.00	0.00	0.00
8/3/2004	\$12,000.00	200420288	2004-565	0.00	0.42	0.00	0.00	0.00	0.00
8/11/2004	\$54,223.68		2004-479	0.00	0.00	0.00	35,187.00	0.00	0.00
8/11/2004	\$59,800.00	200430113	2004-418	299.00	0.00	0.00	0.00	0.00	0.00
8/11/2004	\$6,655.68		20040872	0.00	0.00	0.00	6,933.00	0.00	0.00
8/11/2004	\$18,000.00	199101850	1987-237	0.00	0.57	0.00	0.00	0.00	0.00
8/12/2004	\$492,054.00	199708127	2003-1494	0.00	0.00	0.00	383,130.25	0.00	0.00
8/18/2004	\$3,069.00	200411535	2004-956	0.00	0.00	0.10	0.00	0.00	0.00
8/18/2004	\$336.00		20040527	0.00	0.00	0.00	350.00	0.00	0.00
8/18/2004	\$3,069.00	200411532	2004-999	0.00	0.00	0.20	0.00	0.00	0.00
8/18/2004	\$3,069.00	200400800		0.00	0.00	0.20	0.00	0.00	0.00
8/20/2004	\$36,490.00	200421145	2004-974	178.00	0.00	0.00	0.00	0.00	0.00
8/25/2004	\$175.00	200310793	20030819	0.00	0.00	0.00	0.00	0.00	0.00
8/31/2004	\$33,000.00	200301099	2003-914	0.00	0.50	1.70	0.00	0.00	0.00
9/2/2004	\$324,800.00		2003-1166	1,564.00	0.40	0.00	0.00	0.00	0.00
9/7/2004	\$3,069.00	200401034		0.00	0.00	0.14	0.00	0.00	0.00
9/7/2004	\$3,069.00	200401035		0.00	0.00	0.14	0.00	0.00	0.00
9/8/2004	\$87.50	200411428	20040582	0.00	0.00	0.00	0.00	0.00	0.00
9/9/2004	\$1,272.96	200421046	2004-747	0.00	0.00	0.00	1,326.00	0.00	0.00
9/9/2004	\$2,800.00	199820919	19960320	0.00	0.00	0.00	0.00	0.00	0.00
9/9/2004	\$61,255.68		2003-1470	0.00	0.00	0.00	62,758.00	1,050.00	0.00
9/20/2004	\$18,414.00	200421007	2004-719	0.00	0.64	0.00	0.00	0.00	0.00
9/22/2004	\$6,138.00	200400878	2004-762	0.00	0.00	0.27	0.00	0.00	0.00
9/22/2004	\$6,138.00		2004-586	0.00	0.00	0.32	0.00	0.00	0.00
9/23/2004	\$892.80		2004-1390	0.00	0.00	0.00	0.00	930.00	0.00
9/23/2004	\$389,910.00	200430969	2004-930	1,902.00	0.00	0.00	0.00	0.00	0.00
9/24/2004	\$84,000.00	200301159	2003-1023	0.00	0.00	6.92	0.00	0.00	0.00
9/28/2004	\$12,276.00	200400734	2004-1022	0.00	0.00	0.80	0.00	0.00	0.00
9/29/2004	\$287,181.00	200320450	2003-661	1,341.00	0.50	0.00	0.00	0.00	0.00
10/1/2004	\$6,138.00	200401096		0.00	0.00	0.44	0.00	0.00	0.00
10/6/2004	\$175.00	200310813	20030831	0.00	0.00	0.00	0.00	0.00	0.00
10/6/2004	\$51,250.00	200421326	2004-1128	250.00	0.00	0.00	0.00	0.00	0.00
10/6/2004	\$6,138.00	200421326	2004-1128	0.00	0.12	0.00	0.00	0.00	0.00
10/11/2004	\$59,400.00	200430530	2004-453	297.00	0.00	0.00	0.00	0.00	0.00
10/11/2004	\$1,105.92		2004-1211	0.00	0.00	0.00	1,152.00	0.00	0.00
10/14/2004	\$3,069.00	200411538	2004-0298	0.00	0.00	0.12	0.00	0.00	0.00
10/15/2004	\$8,137.50	200310993	2003-1055	0.00	0.00	0.00	0.00	0.00	0.00

Appendix C: Compensatory Mitigation Payments & Requirements

Payment Date	Payment Amount	USACE ID	DWQ Permit #	Stream l/ft	Riparian Wetland acres	Non Riparian Wetland acres	Inner Buffer sq/ft	Outer Buffer sq/ft	Coastal Marsh acres
10/15/2004	\$59,000.00	200430050	2004-776	295.00	0.00	0.00	0.00	0.00	0.00
10/19/2004	\$45,278.40	200421188	20040849	0.00	0.00	0.00	19,632.00	27,533.00	0.00
10/20/2004	\$6,138.00	200400159		0.00	0.00	0.36	0.00	0.00	0.00
10/25/2004	\$133,816.33	200220397	2000-1061	1,341.00	0.00	0.00	104,889.00	34,503.00	0.00
10/26/2004	\$241.92		2004-1540	0.00	0.00	0.00	0.00	252.00	0.00
10/26/2004	\$44,485.00	200421612	2003-835	217.00	0.00	0.00	0.00	0.00	0.00
11/1/2004	\$24,552.00		2004-917	0.00	0.92	0.00	0.00	0.00	0.00
11/1/2004	\$3,069.00	200400896		0.00	0.00	0.17	0.00	0.00	0.00
11/2/2004	\$23,605.92	200421192	2003-1260	32.00	0.00	0.00	18,630.00	5,959.50	0.00
11/2/2004	\$23,605.92	200420101	2003-1260	32.00	0.00	0.00	18,630.00	5,959.50	0.00
11/2/2004	\$3,069.00	200411788	2004-1515	0.00	0.00	0.03	0.00	0.00	0.00
11/8/2004	\$5,754.24		2004-828	0.00	0.00	0.00	5,994.00	0.00	0.00
11/8/2004	\$316.80		2004-1664	0.00	0.00	0.00	0.00	330.00	0.00
11/17/2004	\$6,138.00	200400208	2004-1020	0.00	0.00	0.34	0.00	0.00	0.00
11/17/2004	\$229.44		20040562	0.00	0.00	0.00	239.00	0.00	0.00
11/19/2004	\$27,621.00	200301262	2003-1643	0.00	0.00	2.20	0.00	0.00	0.00
11/24/2004	\$17,425.00	200421294	2004-1614	85.00	0.00	0.00	0.00	0.00	0.00
11/30/2004	\$416.64		2004-1522	0.00	0.00	0.00	0.00	434.00	0.00
12/3/2004	\$19,427.52		2004-615	0.00	0.00	0.00	18,738.00	1,499.00	0.00
12/3/2004	\$6,138.00	200420657	2004-330	0.00	0.00	0.48	0.00	0.00	0.00
12/6/2004	\$3,069.00	200510003	2004-660	0.00	0.00	0.24	0.00	0.00	0.00
12/10/2004	\$108,638.00	200421369	2004-1130	500.00	0.22	0.00	0.00	0.00	0.00
12/14/2004	\$18,414.00	200330686	2004-1808	0.00	0.58	0.00	0.00	0.00	0.00
12/21/2004	\$3,069.00	200510084	2004-1741	0.00	0.00	0.20	0.00	0.00	0.00
12/21/2004	\$209,884.00	200321221	2004-923	934.00	0.72	0.00	0.00	0.00	0.00
12/22/2004	\$3,069.00	200510080	2004-1497	0.00	0.00	0.20	0.00	0.00	0.00
12/22/2004	\$544.32		2004-1726	0.00	0.00	0.00	567.00	0.00	0.00
12/30/2004	\$3,499.20		2004-1459	0.00	0.00	0.00	3,645.00	0.00	0.00
1/3/2005	\$3,069.00	200300451		0.00	0.00	0.25	0.00	0.00	0.00
1/4/2005	\$18,000.00	200121155	2002-1439	0.00	0.72	0.00	0.00	0.00	0.00
1/4/2005	\$3,069.00	200510087	2004-1813	0.00	0.00	0.20	0.00	0.00	0.00
1/10/2005	\$116,689.96	200520153	2004-1660	229.00	0.00	0.00	53,661.00	18,990.00	0.00
1/10/2005	\$3,069.00	200411667	2004-1266	0.00	0.00	0.06	0.00	0.00	0.00
1/18/2005	\$103,718.00	200421563	2004-1162	476.00	0.21	0.00	0.00	0.00	0.00
1/18/2005	\$103,718.00	200421505	2004-1162	476.00	0.21	0.00	0.00	0.00	0.00
1/26/2005	\$6,138.00	200420151	20050063	0.00	0.25	0.00	0.00	0.00	0.00
1/27/2005	\$3,069.00		2004-2001	0.00	0.00	0.20	0.00	0.00	0.00
1/27/2005	\$14,875.00	199920576	1999-294	119.00	0.00	0.00	0.00	0.00	0.00
2/1/2005	\$3,069.00	200510369	2004-1975	0.00	0.00	0.11	0.00	0.00	0.00
2/1/2005	\$1,728.00		2004-1655	0.00	0.00	0.00	1,800.00	0.00	0.00
2/1/2005	\$6,138.00		2004-1823	0.00	0.06	0.00	0.00	0.00	0.00
2/2/2005	\$1,728.00		2004-1655	0.00	0.00	0.00	0.00	1,800.00	0.00
2/2/2005	\$3,069.00	200400321	2004-22	0.00	0.00	0.25	0.00	0.00	0.00
2/2/2005	\$104,800.00		2004-584	434.00	0.65	0.00	0.00	0.00	0.00
2/3/2005	\$59,245.00	200430903	2004-1750	289.00	0.00	0.00	0.00	0.00	0.00
2/10/2005	\$47,534.40		2004-906	0.00	0.00	0.00	30,921.00	0.00	0.00
2/10/2005	\$36,000.00		2003-498	0.00	0.00	2.76	0.00	0.00	0.00
2/10/2005	\$18,080.64		2004-341	0.00	0.00	0.00	11,400.00	0.00	0.00
2/10/2005	\$11,247.36	199708127	2003-1494	0.00	0.00	0.00	8,310.00	0.00	0.00
2/10/2005	\$600,598.08		2004-1055	0.00	0.00	0.00	469,208.00	0.00	0.00
2/10/2005	\$34,253.76		2003-1456	0.00	0.00	0.00	27,792.00	0.00	0.00

Appendix C: Compensatory Mitigation Payments & Requirements

Payment Date	Payment Amount	USACE ID	DWQ Permit #	Stream l/ft	Riparian Wetland acres	Non Riparian Wetland acres	Inner Buffer sq/ft	Outer Buffer sq/ft	Coastal Marsh acres
2/10/2005	\$1,172.16		2004-826	0.00	0.00	0.00	1,221.00	0.00	0.00
2/10/2005	\$12,276.00	200231111	2002-1816	0.00	0.50	0.00	0.00	0.00	0.00
2/15/2005	\$20,845.44		2003-1338	0.00	0.00	0.00	21,714.00	0.00	0.00
2/15/2005	\$3,069.00	200401112	2004-1377	0.00	0.00	0.25	0.00	0.00	0.00
2/15/2005	\$12,276.00		2004-1796	0.00	0.50	0.00	0.00	0.00	0.00
2/21/2005	\$90,000.00	199300379	1995-1103	0.00	3.70	0.00	0.00	0.00	0.00
2/24/2005	\$856.32		2004-1595	0.00	0.00	0.00	892.00	0.00	0.00
2/24/2005	\$3,069.00	200510057		0.00	0.00	0.09	0.00	0.00	0.00
2/24/2005	\$6,138.00	200500363		0.00	0.00	0.34	0.00	0.00	0.00
3/1/2005	\$319,750.00	200021506	20020662	2,126.00	2.10	0.00	0.00	0.00	0.00
3/4/2005	\$1,224.00		2004-2034	0.00	0.00	0.00	1,275.00	0.00	0.00
3/4/2005	\$3,069.00	200510086	2004-1814	0.00	0.00	0.20	0.00	0.00	0.00
3/8/2005	\$55,200.00	200430816	2004-523	276.00	0.00	0.00	0.00	0.00	0.00
3/11/2005	\$6,000.00	200000805		0.00	0.00	0.36	0.00	0.00	0.00
3/14/2005	\$6,138.00		2004-1788	0.00	0.23	0.00	0.00	0.00	0.00
3/14/2005	\$6,138.00	200510453	20050003	0.00	0.00	0.34	0.00	0.00	0.00
3/16/2005	\$396.48		2004-1294	0.00	0.00	0.00	0.00	413.00	0.00
3/16/2005	\$12,000.00		2002-851	0.00	0.40	0.00	0.00	0.00	0.00
3/16/2005	\$676.80		2003-1527	0.00	0.00	0.00	0.00	705.00	0.00
3/16/2005	\$6,000.00	200231068	2002-1017	0.00	0.14	0.00	0.00	0.00	0.00
3/16/2005	\$40,375.00	200320000	2002-934	323.00	0.00	0.00	0.00	0.00	0.00
3/16/2005	\$6,000.00		20010414	0.00	0.10	0.00	0.00	0.00	0.00
3/16/2005	\$938,000.00	199700885		7,600.00	0.00	0.00	0.00	0.00	0.00
3/21/2005	\$24,000.00	200100215	2003-788	0.00	0.82	0.00	0.00	0.00	0.00
3/28/2005	\$3,069.00	200510613	20050261	0.00	0.00	0.14	0.00	0.00	0.00
3/28/2005	\$3,069.00	200510611		0.00	0.00	0.20	0.00	0.00	0.00
3/28/2005	\$55,338.00	200421510	2004-1296	240.00	0.15	0.00	0.00	0.00	0.00
3/28/2005	\$6,138.00		2004-1774	0.00	0.00	0.30	0.00	0.00	0.00
3/28/2005	\$55,338.00	200320243	2004-1296	240.00	0.15	0.00	0.00	0.00	0.00
3/28/2005	\$140.16		2004-1376	0.00	0.00	0.00	146.00	0.00	0.00
4/5/2005	\$18,414.00	200421390	2004-1337	0.00	0.70	0.00	0.00	0.00	0.00
4/7/2005	\$64,165.00	200430482	20050171	313.00	0.00	0.00	0.00	0.00	0.00
4/11/2005	\$24,552.00		2004-1949	0.00	0.90	0.00	0.00	0.00	0.00
4/14/2005	\$3,069.00	200510627	20050271	0.00	0.00	0.12	0.00	0.00	0.00
4/18/2005	\$3,069.00	200510738	20050317	0.00	0.00	0.12	0.00	0.00	0.00
4/19/2005	\$51,250.00		2004-1979	250.00	0.00	0.00	0.00	0.00	0.00
4/21/2005	\$12,276.00		2004-1920	0.00	0.50	0.00	0.00	0.00	0.00
4/21/2005	\$802.56		2004-1391	0.00	0.00	0.00	0.00	836.00	0.00
4/22/2005	\$3,069.00	200301085		0.00	0.00	0.23	0.00	0.00	0.00
4/22/2005	\$2,350.08		2005-299	0.00	0.00	0.00	2,448.00	0.00	0.00
4/26/2005	\$35,260.00		2004-1816	172.00	0.00	0.00	0.00	0.00	0.00
4/29/2005	\$12,695.04		2004-1940	0.00	0.00	0.00	7,785.00	0.00	0.00
5/4/2005	\$22,795.20	200420927	2004-588	0.00	0.00	0.00	23,745.00	0.00	0.00
5/4/2005	\$24,998.40		2005-163	0.00	0.00	0.00	26,040.00	0.00	0.00
5/10/2005	\$53,300.00	200421466	2004-1293	260.00	0.00	0.00	0.00	0.00	0.00
5/10/2005	\$6,138.00	200520557	20050347	0.00	0.00	0.50	0.00	0.00	0.00
5/10/2005	\$3,069.00	200500631		0.00	0.00	0.07	0.00	0.00	0.00
5/10/2005	\$3,069.00	200510740	20050318	0.00	0.00	0.20	0.00	0.00	0.00
5/10/2005	\$3,069.00	200510739	20050315	0.00	0.00	0.20	0.00	0.00	0.00
5/10/2005	\$6,138.00	200520645	20050347	0.00	0.00	0.50	0.00	0.00	0.00
5/12/2005	\$81,180.00		2004-1934	396.00	0.00	0.00	0.00	0.00	0.00

Appendix C: Compensatory Mitigation Payments & Requirements

Payment Date	Payment Amount	USACE ID	DWQ Permit #	Stream l/ft	Riparian Wetland acres	Non Riparian Wetland acres	Inner Buffer sq/ft	Outer Buffer sq/ft	Coastal Marsh acres
5/16/2005	\$3,069.00	200401120		0.00	0.00	0.25	0.00	0.00	0.00
5/16/2005	\$49.92		2004-2063	0.00	0.00	0.00	52.00	0.00	0.00
5/17/2005	\$79,794.00		2004-1868	0.00	0.00	6.39	0.00	0.00	0.00
5/24/2005	\$69,266.00	200421497	2004-1491	278.00	0.50	0.00	0.00	0.00	0.00
5/24/2005	\$69,266.00	200221360	2004-1491	278.00	0.50	0.00	0.00	0.00	0.00
5/25/2005	\$1,442.88		20050097	0.00	0.00	0.00	0.00	1,503.00	0.00
5/25/2005	\$6,138.00	200421472		0.00	0.25	0.00	0.00	0.00	0.00
5/25/2005	\$93,685.00	200530125	2004-1659	457.00	0.00	0.00	0.00	0.00	0.00
5/25/2005	\$3,069.00	200500302		0.00	0.00	0.13	0.00	0.00	0.00
5/27/2005	\$53,300.00	200431660	2004-2037	260.00	0.00	0.00	0.00	0.00	0.00
5/27/2005	\$88,077.12	200320225	20030639	246.00	0.00	0.00	33,438.00	7,059.00	0.00
5/27/2005	\$3,069.00	200510392	20050201	0.00	0.00	0.20	0.00	0.00	0.00
5/31/2005	\$36,235.20		2005-354	0.00	0.00	0.00	28,857.00	0.00	0.00
5/31/2005	\$1,546,305.12		2004-1760	0.00	0.00	0.00	1,132,371.00	0.00	0.00
6/3/2005	\$6,000.00	200001609	2001-481	0.00	0.00	0.50	0.00	0.00	0.00
6/3/2005	\$40,385.00	200520029	20050269	197.00	0.00	0.00	0.00	0.00	0.00
6/6/2005	\$3,069.00	200510779	20050587	0.00	0.00	0.22	0.00	0.00	0.00
6/6/2005	\$3,069.00	200510972	20050623	0.00	0.00	0.18	0.00	0.00	0.00
6/6/2005	\$372.96		2004-2028	0.00	0.00	0.00	0.00	388.50	0.00
6/6/2005	\$35,634.00		2003-1159	84.00	0.59	0.00	0.00	0.00	0.00
6/6/2005	\$3,069.00	200510747	20050506	0.00	0.00	0.14	0.00	0.00	0.00
6/6/2005	\$24,552.00		2004-1687	0.00	0.82	0.00	0.00	0.00	0.00
6/6/2005	\$3,069.00	200510778	20050587	0.00	0.00	0.22	0.00	0.00	0.00
6/7/2005	\$85,932.00	200420980	2004-2069	0.00	3.29	0.00	0.00	0.00	0.00
6/15/2005	\$3,069.00		2004-1743	0.00	0.00	0.10	0.00	0.00	0.00
6/15/2005	\$3,069.00	200510776	20050642	0.00	0.00	0.17	0.00	0.00	0.00
6/15/2005	\$108,855.00	200530882	20050483	531.00	0.00	0.00	0.00	0.00	0.00
6/15/2005	\$186,225.00		2004-1583	609.00	2.42	0.00	0.00	0.00	0.00
6/16/2005	\$9,207.00	200500170	20050562	0.00	0.00	0.60	0.00	0.00	0.00
6/21/2005	\$9,207.00	200520928	20050675	0.00	0.00	0.60	0.00	0.00	0.00
6/23/2005	\$61,090.00	200531125	20050510	298.00	0.00	0.00	0.00	0.00	0.00
6/24/2005	\$1,690.56		2005-855	0.00	0.00	0.00	1,761.00	0.00	0.00
6/27/2005	\$52,634.88		2005-122	0.00	0.00	0.00	31,152.00	0.00	0.00
Totals:	\$9,452,868.41			28,403.00	28.68	36.04	2,638,346.25	110,324.50	0.00

Appendix D

NORTH CAROLINA PRIVATE MITIGATION BANK SURVEY

The Ecosystem Enhancement Program (EEP) is requesting restoration cost and credit inventory information for private mitigation banks in North Carolina. This information will allow us to analyze our costs and accurately determine our future fee structure. General Statute 143-214.13 refers to the program’s reporting requirement regarding our own costs and a cost comparison with private mitigation banks operating in North Carolina. The statute is listed below:

143-214.13. Wetlands Restoration Program: reporting requirement

The Department of Environment, Health, and Natural Resources shall report each year by November 1 to the Environmental Review Commission regarding its progress in implementing the Wetlands Restoration Program and its use of the funds in the Wetlands Restoration Fund. The report shall document statewide wetlands losses and gains and compensatory mitigation performed under G.S. 143-214.8 through G.S. 143-214.12. The report shall also provide an accounting of receipts and disbursements of the Wetlands Restoration Fund, an analysis of the per-acre cost of wetlands restoration, and a cost comparison on a per-acre basis between the State's Wetland Restoration Program and private mitigation banks. The Department shall also send a copy of its report to the Fiscal Research Division of the General Assembly.

Added by Laws 1996, 2 Ex.Sess., c. 18, s 27.4(a), eff. July 1, 1996.

If you are a bank sponsor that has more than one bank operating in North Carolina, we request that you fill a sheet for each bank.

We ask that you provide us the restoration cost data by October 15, 2004. Thank you very much.

Mail to: Ecosystem Enhancement Program
Attention: Jeff Jurek
1652 Mail Service Center
Raleigh, N.C. 27699-1652

Private Mitigation Bank Survey

1. What is the cost of wetland restoration (cost/acre) for the following categories:

Land purchase _____
Pre-Monitoring _____
Design _____
Construction _____
Hydrological Modifications (include cost of structures) _____

Planting (include cost of vegetation) _____

Post-Monitoring _____
Long-term management _____
Total _____

2. What is the cost of stream restoration (cost/linear foot) for the following categories:

Land purchase _____
Pre-Monitoring _____
Design _____
Construction _____
Hydrological Modifications (include cost of structures) _____

Planting (include cost of vegetation) _____

Post-Monitoring _____
Long-term management _____
Total _____

3. What is the composition of a credit in this bank (for example, 1 credit may be equivalent to 1.3 acres of restoration, 2.6 acres of enhancement, and 5.7 acres of preservation)

restoration _____
enhancement _____
creation _____
preservation _____

The inventory of bank credits allows our staff to make recommendations to clients regarding the availability of credits in various river basins in the state. In addition, this information will be transferred to our website and allow the public to determine not only the ability of the Ecosystem Enhancement Program to meet their mitigation needs but also the private mitigation banking community.

4. Inventory of Bank Credits

Total Credits of Bank (the number bank started with, for example, 20 non-riparian restoration credits, 10 non-riparian enhancement credits)

Credits Sold _____

Remaining Credits _____

4. What is the Cost of a Credit in your Bank (What you charge to sell 1 credit)

Salt-water wetland _____
Riparian wetland _____
Non-Riparian wetland _____
Stream _____

Appendix E Listing for Mitigation Banking Survey

Mitigation Bank Name	County	River Basin	Cataloging Unit	Restoration Type	Sponsor
Scuppernong River Corridor Mitigation Bank	Tyrrell	Pasquotank	3010205	Non-Riparian	Green Vest, LLC
Great Dismal Swamp Restoration Bank	Pasquotank, Perquimans	Pasquotank	3010205	Non-Riparian	Great Dismal Swamp Mitigation
Hidden Lake Mitigation Bank	Tyrrell	Pasquotank	3010205	Non-Riparian	Green Vest, LLC
Barra Farms Cape Fear Regional Mitigation Bank	Cumberland	Cape Fear	3030005	Non-Riparian, Stream	EcoBank, LLC
Greater Sandy Run Wetland Mitigation Bank	Onslow	White Oak	3030001	Non-Riparian	Camp LeJeune Marine Base
Flat Swamp Wetland Mitigation and Stream Restoration Bank	Craven	Neuse	3020202	Non-Riparian, Stream	Green Vest, LLC
NEU-CON Mitigation Bank	Lenoir, Jones, Greene	Neuse	03020202 03020203 03020204	Non-Riparian, Stream	Environmental Banc and Exchange, LLC
Fisher River Mitigation Bank	Surry	Yadkin	3040101	Riparian	American Wetlands
Bear Creek-Mill Branch	Wayne	Neuse	3020202	Riparian	Restoration Systems, LLC.
Deep Creek	Yadkin	Yadkin	3040101	Riparian, Stream	American Wetlands

The mitigation banks included in this table have a mitigation banking instrument that has been signed by some or all of the federal and state review agencies

Green Vest, LLC
1001 Capability Dr. Suite 312
Raleigh, NC 27606
(919) 831-1234

Great Dismal Mitigation Bank, LLC
Winthrop, Stimson, Putnam & Roberts
1133 Connecticut Ave. NW
Washington, DC 20036

EcoBank, LLC
1555 Howell Branch Rd.
Winter Park, FL 32789
(407) 629-6044

Environmental Banc & Exchange, LLC
1119-M Whisperwood Court
Greensboro, NC 27104
(336) 851-5902

American Wetlands
11876 Sunrise Valley Dr. Suite 200
Reston, VA 20191

Restoration Systems, LLC.
1101 Haynes St. Suite 203
Raleigh, NC 27604
(919) 755-9490