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**ENVIRONMENTAL CONSULTANTS** 

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1221 Corporation Parkway, Suite 100 Raleigh, North Carolina 27610 e-mail: rgoldstein@rjgaCarolina.com

September 17, 2008

Eric Kulz, Environmental Specialist popularies as pour or an environmental Specialist popularies and popularies 401 Oversight and Express Permitting Unit 2321 Crabtree Blvd., Suite 250 Walter IF The Raleigh, NC 27604

RE: GES Neuse River Riparian Buffer and Nutrient Offset Umbrella MBI

Mr. Kulz:

acidi silahidi sh As you requested, attached please find two signed copies of the GES Neuse MBI. Please inform us when the MBI has been approved oldstein and

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IN JUNEYEASIAMORI We look forward to hearing from you.

Jessi O'gel

Sincerely,

Jessi O'Neal **Ecologist** 

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# GREENE ENVIRONMENTAL SERVICES NEUSE RIVER RIPARIAN BUFFER AND NUTRIENT OFFSET UMBRELLA MITIGATION BANKING INSTRUMENT

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#### I. PREAMBLE

This Riparian Buffer and Nutrient Mitigation Umbrella Banking Instrument, regarding the establishment, use, operation, and maintenance of the Greene Environmental Services Neuse River Basin Riparian Buffer and Nutrient Offset Umbrella Bank (Bank) is made and entered into by and among Greene Environmental Services, LLC, (GES) and the North Carolina Department of Environment and Natural Resources - Division of Water Quality (DWQ).

The purpose of the Bank is to improve water quality through the restoration of riparian buffers within the Neuse River Basin in the State of North Carolina, United States Geological Survey (USGS) Hydrologic Unit Code (HUC) 030202, to provide mitigation for buffer impacts and development requiring nutrient offset payments within the Neuse River Basin, and to sell any resulting credits to third parties.

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#### II. AUTHORITIES

The credits resulting from the establishment of this Bank will be used to provide riparian buffer mitigation and nitrogen offset credits in accordance with the requirements of 15A NCAC 2B .0232 Neuse River Basin – Nutrient Sensitive Waters Management Strategy: Basin Nutrient Reduction Goal. Specifically these credits will be used in accordance with 15A NCAC 2B .0234 (Wastewater Discharge Requirements), 2B .0235 (Basinwide Stormwater Requirements), 2B .0242 (Mitigation program for protection and maintenance of existing riparian buffers), and under such authority as established in SL 2007-438. All activities will be consistent with rules adopted by the Environmental Management Commission and all other applicable authorities.

#### III. ESTABLISHMENT OF BANK PARCEL(S)

- A. Each tract of land subject to a conservation easement or restrictive covenants described in Section III. E. ("Parcel") to be included in the Bank shall require a Bank Parcel Development Package (BPDP), including detailed information concerning site location, existing conditions, proposed restoration activities, monitoring and maintenance plans, financial assurances, and associated mitigation potential (to include credit generation, service area, and accounting as appropriate for each regulatory authority cited above). Additional Parcels may be added to the Bank at any time upon approval of the associated BPDP by the DWQ and prior to use of the Parcel for mitigation purposes.
- B. GES agrees to perform all necessary work, in accordance with the provisions of this Banking Instrument, to establish and/or maintain riparian buffer until it is demonstrated to the satisfaction of the DWQ that the restored property complies with all conditions contained herein, or until all credits are sold, whichever is later.



C. GES will obtain all appropriate environmental documentation, permits or other authorizations needed to establish and maintain the Bank. This Banking Instrument does not qualify or substitute for such authorization.

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- D. Financial Assurance Requirements: Following approval of the BPDP, Greene Environmental Services, LLC shall provide financial assurances in the form of a Letter of Credit to ensure completion of all remaining mitigation work, required reporting and monitoring, and any remedial work required pursuant to this MBI. The amount of the Letter of Credit shall be equal to the estimated cost of implementation of the restoration plan as specified in the BPDP, but no less than \$100,000. Estimated costs will include any necessary public notice, historical background searches, soil and hydrologic studies, site design, surveys, site preparation, tree planting, annual monitoring fieldwork and reports, re-planting, long-term management, and miscellaneous expenses outlined in the Mitigation Plan.
- E. Real Estate Provisions: Prior to the certification of any credits, GES shall acquire a permanent conservation easement(s) or record restrictive covenants to the deed(s) on all Bank Parcels to provide protection to the restored riparian buffer from activities that would impair its ability to provide nutrient abatement to waters of the Neuse River Basin. The form of the conservation easement or restrictive covenants shall be consistent with the standards employed by the State of North Carolina in the protection of restored riparian buffers and shall be approved by the DWQ prior to the certification of any credits. GES shall not grant additional easements, right of way, or any other property interest in or to the project areas without the written consent of the DWQ or its designee. In the case of a conservation easement, GES will hold the easement until all credits are released from the Bank Parcel. At the conclusion of Bank activities, the conservation easement(s) may be permanently transferred to an entity approved by DWQ to be held in perpetuity.
- F. As-Built Reports: GES agrees to submit an as-built report for each Parcel within 30 days after completing the establishment of the buffer. The as-built report will describe in detail any deviation from the BPDP.

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## IV. MAINTENANCE AND MONITORING OF BANK PARCEL(S)

- A. Maintenance Provisions: GES agrees to perform all necessary work to maintain the Parcel(s) consistent with the maintenance criteria established in this instrument. GES shall continue with such maintenance activities until all credits are sold or the Parcel is closed. Deviation from the approved BPDP is subject to review and written approval by DWQ or its designee.
- B. Monitoring Provisions: GES agrees to perform all necessary work to monitor the Bank to demonstrate compliance with the Success Criteria established in this Banking Instrument and site-specific conditions of the BPDP
- C. Vegetative Success Criteria: Vegetative Success Criteria will be based upon the density and growth of character tree species. "Character Trees" are defined as planted or volunteer species identified from a survey of local vegetation on less degraded sections of the specified

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stream and from reference literature that details native species. A list of Character Tree species for each Parcel will be detailed in that Parcel's BPDP. Vegetative Success Criteria will be based upon guidelines set forth in the Guidelines for Riparian Buffer Restoration prepared by the North Carolina Ecosystem Enhancement Program (or subsequent updated versions of this Guidance in place at the date of acceptance of a BPDP). Success is defined as the survival of an average density of 320 Character Trees per acre. Planted species must account for a minimum of 30 percent of the above densities. If vegetative success criteria are not achieved based on acreage density calculations from combined monitoring plots over the entire restoration area, supplemental planting may be performed with tree species approved by DWQ. Supplemental planting may be performed as needed until vegetative success criteria are met. No quantitative measurements of herb assemblages will be required to meet the vegetative success criteria. The quantity of monitoring plots will be determined in accordance with The Carolina Vegetative Sampling Protocol (Levels I & II), such that no more than 2 percent of any one Parcel is encompassed in Monitoring plots. Visual observation of streambank stability will also be made. Areas of significant bank erosion will be repaired through matting and/or vegetative/planting. what

- D. Monitoring Reports: GES shall submit to the DWQ an annual monitoring report, no later than December 31 each year for five years after the first full growing season unless otherwise specified in the BPDP and approved by DWQ, describing the conditions of each Bank Parcel and relating those conditions to the success criterial Reports will be submitted annually and shall contain the following:
  - 1. A U.S. Geological Survey map showing location of the Bank;
  - 2. A detailed narrative summarizing the condition of the Bank and all regular maintenance activities;
  - 3. Appropriate topographic maps showing location of sampling plots, permanent photo points, parcel boundaries, etc.
  - 4. Monitoring data, including specific vegetative counts and photographs; and
  - 5. A copy of the Bank credit/debit ledgers.
- E. Contingency Plans/Remedial Actions: In the event the Bank fails to achieve the success criteria described in this instrument, GES shall develop necessary contingency plans and implement appropriate remedial actions for the Bank in coordination with the DWQ or designee. If the DWQ determines that the Bank is operating at a deficit (i.e., GES is selling or transferring credits not yet available), the sale/transfer of credits will immediately cease, and the DWQ, in consultation with GES, will determine what remedial actions are necessary to correct the situation.

#### V. OPERATION OF BANK

A. Nitrogen Abatement of Restored Riparian Buffer: GES and DWQ agree that the pounds of nitrogen offset per acre of restored riparian buffer shall be two thousand two hundred and seventy three (2273 lbs/acre) as established by the DWQ and applied to existing riparian buffer-based nitrogen abatement sites across the State of North Carolina.

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B. Establishment and Release of Credits: Upon submittal of all appropriate documentation by GES; and subsequent approval by DWQ or its designee, it is agreed that the mitigation credits associated with this Bank will become available for sale to a third party in accordance with the following schedule unless a different release schedule is specified in the BPDP and approved by DWQ.

	Table I -Credit Release Schedule	
Task	Project Milestone	% Credit Available for Sale
1	Bank Parcel Development Package Approved by DWQ, Conservation Easement or Restrictive Covenants Recorded and Performance Guarantee Funds Encumbered by a Letter of Credit	20
2	Mitigation Site Earthwork, Planting and Installation of Monitoring Plots	20
3	Approval of As-Built Report	10
4	Submit Monitoring Report #1 to DWQ (meets success criteria)	10
5	Submit Monitoring Report #2 to DWQ (meets success criteria)	10
6	Submit Monitoring Report #3 to DWQ (meets success criteria)	10
7	Submit Monitoring Report #4 to DWQ (meets success criteria)	10
8	Submit Monitoring Report #5 to DWQ (meets success criteria)	10
	Total separate separa	100%

- ov DWO or its desired
- C. Projects Eligible to Use the Bank. Projects eligible for utilization of the credits are those requiring authorization under the requirements of 15A NCAC 2B .0234 (Wastewater Discharge Requirements), 2B .0235 (Basinwide Stormwater Requirements), and 02B .0242 (Mitigation Program for Protection and Maintenance of Existing Riparian Buffer) provided such use has met all applicable requirements and is authorized by the appropriate authority.
- D. Procedure for Debiting or Crediting the Bank: GES shall maintain two credit ledgers: one accounting for buffer mitigation credits (in square feet), which are generated by buffer areas of ≤ 50 feet in width; and one accounting for nitrogen offset credits, which are generated from buffer areas >51 feet in width. The ledgers shall record the area of available buffer for each Parcel and all associated debits and credits. Credits can be converted and transferred from buffer mitigation to nitrogen offsets, but the opposite shall not occur. No debits or credits to the ledger shall be made without the written concurrence of the DWQ or its designee, and GES. All written concurrences shall be kept in the ledger.

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### VI. OTHER PROVISIONS

A. GES will allow, or otherwise provide for, access to the Parcel(s) by the DWQ or other parties authorized by the DWQ, as necessary, for the purpose of inspection and compliance with the terms and conditions of this Banking Instrument and the conservation easement or restrictive covenants. Inspecting parties shall provide reasonable notice, of not less than 24 hours, to GES, prior to inspection of Bank.

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- B. Force Majeure: GES will not be responsible for Bank failure that is attributed to natural catastrophes such as flood, drought, disease, regional pest infestation, etc. that are beyond the control of GES. DWQ must concur in writing that a force majeure event has occurred. Jow or he such oth
- C. Validity, Modification, and Termination of the Banking Instrument: This Banking Instrument will become valid on the date of the last party's signature. This Banking Instrument may be amended or modified only with the written approval of all signatory parties.
- D. Specific Language of Banking Instrument Shall Be Controlling: To the extent that specific language in this document changes, modifies, or deletes terms and conditions contained in those documents that are incorporated into the Banking Instrument by reference, and that are not legally binding, the specific language within the Banking Instrument shall be controlling.
- E. Dispute Resolution. Any disputes between the Bank Sponsor and the DWQ regarding the attainment of success criteria and release of credits from a specific site and appropriate monitoring, maintenance and/or remedial onsite activities shall first be addressed among the field staff of DWQ and GES field personnel and then, if not settled, raised to the level of the individual signatories to the MBI or their designees.
- F. Notices: Unless otherwise provided herein, all notices and other communications which may be or are required to be given or made by any party to the other in connection herewith shall be in writing and shall be deemed to have been properly given and received on the date delivered in person or deposited in the United States mail, registered or certified, return receipt requested, to the addresses set out below, or at such other addresses as specified by written notice delivered in accordance herewith.

IF TO GES:

Bobby Ham

President, Greene Environmental Services, LLC

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90 Ham Produce Road Snow Hill, NC 28580

IF TO DWQ:

Ms. Coleen Sullins

Director, Division of Water Quality ( ) and ( )

1617 Mail Service Center in son sedui je, Raleigh, NC 27699-1617

- G. Entire Agreement: This Agreement constitutes the sole and entire agreement among the parties hereto and no modification of this Agreement shall be binding unless in writing and signed by all parties hereto.
- H. Applicable Law: This Agreement shall be construed under the laws of the State of North Carolina. Little Character .

IN WITNESS WHEREOF, the parties hereto have executed this Agreement entitled "Greene Environmental Services Neuse River Riparian Buffer and Nutrient Offset Umbrella Mitigation Banking Instrument":

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Name: Dobby Mam
Title: President, Greene Environmental Services, L.L.C
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North Carolina Department of Environment and Natural Resources
Division of Water Quality:
By: ( ) ( )
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