

Project Number (to be assigned by ABP) 201203

**FISCAL YEAR 2014 ANNUAL PLAN
WATER MANAGEMENT PROJECT
NOMINATION FORM**

1. Nominating Party (Please note affiliation, i.e. Parish, Association, Organization)

Name: G. Paul Kemp Affiliation: National Audubon

Address: 6160 Perkins Rd., Baton Rouge, LA 70808
Society

Phone: 225-772-1426 email: pkemp@audubon.org

Signature: _____

2. Statement of the Problem. (Please give a brief description of problem and current area conditions. If you think the problem relates to water quality, sediment accumulation, access, forest health, fisheries or other issues, please indicate as well).

The Cocodrie Swamp Project (200915 & (200916) has been approved
for Design/Engineering and Construction funding, but it has been
difficult to attain consensus among user groups about the optimal
management approach because the hydrology is so complex and conflicting
views about (1) where, and under what river conditions sediment enters
the swamp, and (2) what flow patterns result in filling or draining of
the swamps, and (3) how the project might be better designed to
take advantage of this information if it existed.

3. Project Boundary: (draw specific location of project area on attached map):

Parish: St. Martin Water Management Unit (if known): Cocodrie Swamp

Lat/Long (if known): _____

4. Affected Area: (draw specific area anticipated to benefit from project on attached map - if known):

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5. Action Description: (any proposed action or suggestion to rectify the problem. List any anticipated benefits from the water management project-if known)

The National Audubon Society, together with Moffatt-Nichol (engineers),
~~propose to simulate water and particle transport under actual conditions~~
~~during the record 2011 water year for the entire Cocodrie Swamp Project,~~
develop a good understanding of current conditions and connectivity,
~~examine the potential for proposed measures to improve water quality (low~~
oxygen, high sediment) in the backswamp, and, finally, recommend other
~~enhancements that might improve water quality at reasonable cost.~~

6. Survey and Preliminary Assessments: (Please attach any pertinent information or documents that you might have pertaining to the problem area for review and provide a list of the documents you have attached.)

The National Audubon Society and Moffatt-Nichol have developed a

two-dimensional MIKE-21 (DHI) hydrodynamic model for the entire

Atchafalaya Basin that was calibrated and validated on 2011 stage and
discharge information.

7. Additional information regarding the water management project area, problem or proposed action (if known):

This project would require creating an inset computational mesh for the
~~Cocodrie Swamp Water Management Unit that would have the resolution~~
necessary to answer the flow regime questions. The larger model will
~~provide the critical hydraulic boundary conditions, while the nested~~
model will include all critical waterways and topography derived from
hydrographic survey. The proposer is quite familiar with the project
~~area.~~

Please return this form by mail to the address below, fax to (225) 342-6887, email to Atchafalaya@dnr.com or bring in person to an Atchafalaya Basin Water Management Project Nomination meeting.

Louisiana Department of Natural Resources
Atchafalaya Basin Program
P O Box 94396
Baton Rouge, LA 70804

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