



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Sharon Spencer

Title: Chairman

Agency/Dept.: Board of Commissioners

Item Title: Call to Order, Opening Prayer, Pledge of Allegiance

Attachments: No

Description: General activities to open the meeting

Times Read:

Impact on Budget: None

RECOMMENDATION: Participate

			Yea	Nay
_____ A. Byrd	_____ A. Byrd	A. Byrd	_____	_____
_____ J. Fletcher	_____ J. Fletcher	J. Fletcher	_____	_____
_____ E. Pugh	_____ E. Pugh	E. Pugh	_____	_____
_____ B. Swindell	_____ B. Swindell	B. Swindell	_____	_____
_____ D. Tunnell	_____ D. Tunnell	D. Tunnell	_____	_____



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Sharon Sadler

Title: Clerk of Superior Court

Agency/Dept.: County of Hyde

Item Title: Swearing in of Commissioners

Attachments: No

Description: Commissioners Anson Byrd, John Fletcher and Earl Pugh, Jr. will be sworn into office

Times Read: First

Impact on Budget: Does not increase the budget.

Recommendation: Participate

			<u>Yea</u>	<u>Nay</u>
_____ A. Byrd	_____ A. Byrd	A. Byrd	_____	_____
_____ J. Fletcher	_____ J. Fletcher	J. Fletcher	_____	_____
_____ E. Pugh	_____ E. Pugh	E. Pugh	_____	_____
_____ B. Swindell	_____ B. Swindell	B. Swindell	_____	_____
_____ D. Tunnell	_____ D. Tunnell	D. Tunnell	_____	_____



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Mazie Smith

Title: Clerk to the Board of Commissioners

Agency/Dept.: Hyde County

Item Title: Call to Order, Opening Prayer, Pledge of Allegiance

Attachments: No

Description: The Clerk will call to order and conduct the organizational meeting of the board

- 1) Open the meeting
- 2) Nomination and election of Board Chairman
- 3) New Chairman takes over meeting
- 4) Nomination and election Board Vice-Chairman
- 5) Nomination and election of Board Clerk
- 6) Appointment of Deputy Clerk
- 7) Appointment of Board Attorney
- 8) Close of organizational meeting

Times Read: 1

Impact on Budget: None

RECOMMENDATION: Participate

____ A. Byrd
____ J. Fletcher
____ E. Pugh
____ B. Swindell
____ D. Tunnell

____ A. Byrd
____ J. Fletcher
____ E. Pugh
____ B. Swindell
____ D. Tunnell

A. Byrd
J. Fletcher
E. Pugh
B. Swindell
D. Tunnell

Yea	Nay
____	____
____	____
____	____
____	____
____	____



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s):

Title: Chairman

Agency/Dept.: Board of Commissioners

Item Title: Consideration of Agenda

Attachments: Yes

Description: Consideration of Agenda for today's meeting

Times Read: First

Impact on Budget: None

RECOMMENDATION: Approve

____ A. Byrd
____ J. Fletcher
____ E. Pugh
____ B. Swindell
____ D. Tunnell

____ A. Byrd
____ J. Fletcher
____ E. Pugh
____ B. Swindell
____ D. Tunnell

A. Byrd
J. Fletcher
E. Pugh
B. Swindell
D. Tunnell

Yea	Nay
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____



Since 1712

HYDE COUNTY BOARD OF COMMISSIONERS

Monday, December 3, 2012 - 6 PM

Hyde County Courthouse Multi-purpose Room

30 Oyster Creek Road, Swan Quarter, NC

and the

Ocracoke School Commons Area

120 School House Road, Ocracoke, NC

AGENDA

- 1 **CALL TO ORDER, OPENING PRAYER, PLEDGE OF ALLEGIANCE** Chrm. Spencer

- 2 **ADMINISTRATION OF OATHS OF OFFICE** Sharon Sadler
Anson Byrd, Fairfield Township
John Fletcher, Ocracoke Township
Earl Pugh, Jr., Lake Landing Township

- 3 **ORGANIZATIONAL MEETING OF BOARD** Mazie Smith
 - a Open the meeting
 - b Nomination and Election of Board Chairman
 - c Newly elected Chairman takes over organizational meeting
 - d Nomination and Election of Vice-Chairman
 - e Nomination and Election of Board Clerk
 - f Appointment of Deputy Clerk
 - g Appointment of Board Attorney
 - h Close the Organizational Meeting

- 4 **APPROVAL OF AGENDA** Chairman

- 5 **RECOGNITION OF OUTGOING BOARD MEMBERS** Mazie Smith

- 6 **APPROVAL OF MINUTES**

- 6 **PUBLIC COMMENTS**
The public comment period is a time for the public to make comments to the County Commissioners. Comments should be kept to three (3) minutes and should be directed to the entire board and not to an individual Commissioner, staff member or member of the public. Time for one person to speak cannot be used by another person. Comments that reflect the need for assistance are typically continued to a future Board meeting agenda.

- | | | |
|----|---|---------------|
| 8 | Costs, Benefits and Possibilities for Renovating the Public Safety Center | Andy Lamm |
| 9 | Contract for services with Lamm Engineering Services | Mazie Smith |
| 10 | Proposal to Add Acreage to Pocosin Lakes Wildlife Refuge | Mazie Smith |
| 11 | Approval for Bond Counsel Services for Hyde County | Corrine Gibbs |
| 12 | Resolution for the Sale of General Obligation Bonds | Corrine Gibbs |
| 13 | Contract for Medical Services Director for EMS | Justin Gibbs |
| 14 | Contract for Lobbying Services in 2013 | Mazie Smith |
| 15 | Appointment to Albemarle Commission | Chairman |
| 16 | Appointment to Northeast Workforce Development Board | Chairman |
| 17 | Appointment to Ocracoke Scenic Byway Committee | Mazie Smith |

MEETING INFORMATION

- | | | |
|----|---|-------------|
| 18 | Resolution to approve Board Meeting Calendar for 2013 | Mazie Smith |
| 19 | Approval of Budget Calendar for 2013-2014 Process | Mazie Smith |
| 20 | Employee Recognition Program, December 14th (10 AM - 12 Noon) | |
| 21 | Commissioners Organizational Meeting, December 14th (12:30 PM-3:30 PM) | |
| 22 | Engelhard Christmas Parade, December 15th (4:00 PM) | |
| 23 | Essentials of County Government/ethics training for newly sworn Commissioners | |
| | January 9-10 Asheville | |
| | January 30-31 New Bern | |
| | February 12-13 Winston-Salem | |
| | February 22-23 Chapel Hill | |
| 24 | NCACC Legislative Goals Conference, January 24-25 (must appoint delegate) | |

BUDGET MATTERS

Transfers by Board

25 Health Dept. - Transfer from Medicaid Escrow to Capital Improvement Wes Smith

Administrative Transfers

None

MANAGEMENT REPORTS

26 The Commissioners and County Manager will share with the public their various activities on behalf of the citizens of Hyde County.

27 **PUBLIC COMMENTS**

28 **CLOSED SESSION (if required)**

SUPPLEMENTAL INFORMATION

29 Employment Anniversary and Birthday Calendar



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Mazie Smith

Title: County Manager

Agency/Dept.: County of Hyde

Item Title: Resolution to Establish Meeting Dates for 2013

Attachments: Yes

Description: The annual resolution which established the meeting calendar for the Board of Commissioners needs to be passed at this meeting. The County Manager is proposing two calendars to choose from, based on input and suggestions from board members and the county attorney. One calendar decreases the number of regular meetings per month to one and establishes a committee structure for more indepth information sharing. The other calendar includes the same schedule as is currently used, with meetings on the first and third Monday of each month. Option one is estimated to save the County approximated \$60k annually.

Times Read: First

Impact on Budget: Does Not increase the budget

Recommendation: Adopt calendar with one meeting per month

<u>MOTION MADE</u>	<u>MOTION SECONDED</u>	<u>VOTE</u>	<u>Yea</u>	<u>Nay</u>
____ A. Byrd	____ A. Byrd	A. Byrd	____	____
____ J. Fletcher	____ J. Fletcher	J. Fletcher	____	____
____ E. Pugh	____ E. Pugh	E. Pugh	____	____
____ B. Swindell	____ B. Swindell	B. Swindell	____	____
____ D. Tunnell	____ D. Tunnell	D. Tunnell	____	____

PRESENTATIONS

- 7 NC Sea Grant Information on Sea Level Rise Spencer Rogers
- 8 Costs, Benefits and Possibilities for Renovating the Public Safety Center Andy Lamm
- 9 Contract for services with Lamm Engineering Services Mazie Smith
- 10 Proposal to Add Acreage to Pocosin Lakes Wildlife Refuge Mazie Smith
- 11 Approval for Bond Counsel Services for Hyde County Corrine Gibbs
- 12 Resolution for the Sale of General Obligation Bonds Corrine Gibbs
- 13 Contract for Medical Services Director for EMS Justin Gibbs
- 14 Contract for Lobbying Services in 2013 Mazie Smith
- 15 Appointment to Albemarle Commission Chairman
- 16 Appointment to Northeast Workforce Development Board Chairman
- 17 Appointment to Ocracoke Scenic Byway Committee Mazie Smith

MEETING INFORMATION

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- 19 Approval of Budget Calendar for 2013-2014 Process Mazie Smith
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- 23 Essentials of County Government/ethics training for newly sworn Commissioners
 - January 9-10 Asheville
 - January 30-31 New Bern
 - February 12-13 Winston-Salem
 - February 22-23 Chapel Hill

24 NCACC Legislative Goals Conference, January 24-25 (must appoint delegate)

BUDGET MATTERS

Transfers by Board

25 Health Dept. - Transfer from Medicaid Escrow to Capital Improvement Wes Smith

Administrative Transfers

None

MANAGEMENT REPORTS

26 The Commissioners and County Manager will share with the public their various activities on behalf of the citizens of Hyde County.

27 PUBLIC COMMENTS

28 CLOSED SESSION (if required)

SUPPLEMENTAL INFORMATION

29 Employment Anniversary and Birthday Calendar



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Mazie Smith

Title: Manager

Agency/Dept.: County of Hyde

Item Title: Recognition of Outgoing Board Members Sharon Spencer and Darlene Styron

Attachments: No

Description: Sharon Spencer served the citizens of Hyde County as a member of the board of Commissioners from 2008 - 2012, her last year as Chairman of the Board. Darlene Styron has represented the people of Ocracoke since May 25, 2010 when she was appointed to fill the unexpired term of Mr. Gene Ballance. Both ladies have contributed tireless hours attending meetings and events on behalf of Hyde County. The County Manager will present each Commissioner with a token of appreciation for their dedication and service.

Times Read: First

Impact on Budget: Does not increase the budget.

Recommendation: Thank recipients for their service

			<u>Yea</u>	<u>Nay</u>
<input type="checkbox"/>	A. Byrd	<input type="checkbox"/>	A. Byrd	<input type="checkbox"/>
<input type="checkbox"/>	J. Fletcher	<input type="checkbox"/>	J. Fletcher	<input type="checkbox"/>
<input type="checkbox"/>	E. Pugh	<input type="checkbox"/>	E. Pugh	<input type="checkbox"/>
<input type="checkbox"/>	B. Swindell	<input type="checkbox"/>	B. Swindell	<input type="checkbox"/>
<input type="checkbox"/>	D. Tunnell	<input type="checkbox"/>	D. Tunnell	<input type="checkbox"/>



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s):

Title: Chairman

Agency/Dept.: Board of Commissioners

Item Title: Approval of Minutes

Attachments: Yes

Description: Minutes of the meeting held on November 19, 2012

Times Read: First

Impact on Budget: None

RECOMMENDATION: Approve

MOTION MADE

_____ A. Byrd
_____ J. Fletcher
_____ E. Pugh
_____ B. Swindell
_____ D. Tunnell

SECONDED

_____ A. Byrd
_____ J. Fletcher
_____ E. Pugh
_____ B. Swindell
_____ D. Tunnell

VOTE

A. Byrd
J. Fletcher
E. Pugh
B. Swindell
D. Tunnell

Yea

Nay

1 **Meeting Minutes**

2 **Board of County Commissioners**
3 **Hyde County**

4
5 **November 19, 2012**
6

7 Chairwoman Sharon Spencer called the regular meeting of the Hyde County Board of
8 Commissioners to order at 6:00 PM on Monday, November 19, 2012 in the Hyde County
9 Government Center, Multi-Use Room, and the Ocracoke School Commons Room using electronic
10 conferencing equipment. The following members were present on the mainland: Commissioners
11 Anson Byrd, Sharon Spencer, Barry Swindell and Dick Tunnell; Attorney Fred Holscher; County
12 Manager Mazie Smith; Deputy Clerk Lois Stotesberry; and, members of the public. The following
13 members were present on Ocracoke: Commissioner Darlene Styron; Deputy Clerk/PIO Megan
14 Shaw; and, members of the public.

15
16 Following opening prayer by Commissioner Spencer and pledge of allegiance, the meeting was
17 called to order.

18 **Agenda:**

19 Chairwoman Spencer asked for any changes to the November 19, 2012 meeting Agenda as
20 presented by the Clerk. Commissioner Byrd moved to approve the agenda as presented by the
21 Clerk with addition of:

22 Introduction to Public Hearing – FY12 CDBG Catalyst Program
23 Resolution CDBG Catalyst Application
24 No. 4 – Waiver of Building Permit Fees for Ocracoke VFD
25 No. 5 –ABC Board Report
26 No. 6 – NWDB Lease Consideration
27 Budget Transfers – Health Department \$17,865.11 and Emergency Services \$3,500.00

28 Ms. Styron seconded the motion. The motion passed on the following vote:

29 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None
30

31 **Consideration of Minutes:**

32 Chairwoman Spencer asked for approval of meeting minutes.

1 Commissioner Swindell moved to approve the November 5, 2012 regular meeting minutes as
2 presented by the Clerk. Mr. Byrd seconded the motion. The motion passed on the following vote:

3 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

4 **Employee of the Month**

5 Mazie Smith, County Manager, reported that Clint Berry started to work with the County in 1993,
6 working with Jack Mason. He assumed the Director's role upon Jack's retirement. Clint's rise to
7 Director is no surprise to anyone who knows him; his dedication to his job, his incredible
8 intelligence and common-sense, practical approach to dealing with people and facing problems is
9 beyond reproach. Under Clint's leadership, the Public Works Department has grown and
10 flourished, and the department has not only remained fiscally sound but has improved service by
11 incorporating cutting edge technology into day-to-day operations. Best of all, Clint is a true leader,
12 a team player, and an all-around nice guy. The County Manager is proud to recognize Clint Berry
13 as the November 2012 Employee of the Month.

14 **FY2012 CDBG Catalyst Program**

15 Kris Noble, Director of Planning and Development, presented FY 2012 CDBG Catalyst Program,
16 Hycienda Heights, Mid East Housing Authority, November 2012. Hycienda Heights is a 24 unit
17 affordable housing development in the Lake Landing Township that is in need of renovations.
18 Issues of concern include poor lot drainage, condensation from HVAC systems and water
19 accumulations under houses most of the year. After discussion with Hyde County officials and
20 housing consultant Scott Redinger, Mid East Housing Authority Executive Director Marc Recco
21 presented three options: 1) bring the current facility up to standard, 2) sell Hacienda Heights and a
22 facility in Belhaven and construct a new facility, and 3) sell the facility and provide no program in
23 Hyde County.

24 Mid East Housing Authority has asked Hyde County to partner on the renovation of Hycienda
25 Heights by submitting a FY2012 CDBG NC Catalyst Program Grant in the amount of \$500,000.00.
26 Funding will be utilized to reconstruct the existing units and for improvements to the site.

27 **Public Hearing – FY12 CDBG Catalyst Program**

28 Commissioner Swindell moved to open public hearing on FY2012 CDBG Catalyst Program. Mr.
29 Tunnell seconded the motion. The motion passed on the following vote:

30 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

31 Chris Hilbert, Program Administrator, Holland Consulting Planners, Inc. (HCP, Inc.) reported that
32 Hyde County intends to submit an application for a grant of approximately \$500,000.00 in CDBG
33 NC Catalyst funds to undertake rehabilitation of the 24-unit Hycienda Heights multi-family

1 housing complex in Engelhard, NC, owned and maintained by Mid East Housing Inc. The
2 rehabilitation project will include associated site improvements

3 After discussion and hearing no comments from the public, Commissioner Tunnell moved to close
4 public hearing on FY2012 CDBG Catalyst Program. Mr. Byrd seconded the motion. The motion
5 passed on the following vote:

6 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

7 Commissioner Swindell moved to approve “Resolution of Hyde County – NC Catalyst Program
8 Application to Assist in Funding Hycienda Heights Development Project”. Mr. Tunnell seconded
9 the motion. The motion passed on the following vote:

10 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

11 Clerk’s Note: A copy of “*Resolution of Hyde County – NC Catalyst Program Application to Assist*
12 *in Funding Hycienda Heights Development Project*” is attached herewith as Exhibit A and
13 incorporated herein by reference.

14 **Public Comments:**

15 Chairwoman Spencer called for comments from the public.

16 John Fletcher – Ocracoke, stated that he felt the public defender’s office being located in Beaufort
17 County may result in cases being moved from Hyde County. He recommends that funds for the
18 office should be based on the number of cases fined and not based on population.

19 Chairwoman Spencer congratulated incumbent Earl Pugh, Jr. and stated she was glad to see him at
20 the meeting.

21 There being no further comments from the public, Chairwoman Spencer continued the meeting.

22 **Items of Consideration:**

23 **CDBG NC Tomorrow Citizen Participation Plan**

24 Kris Noble, Director of Planning and Development, reported that each of Hyde County’s CDBG
25 projects has a Citizen Participation Plan. Citizens are kept aware of CDBG programs available to
26 assist them through the plan. The NC Department of Commerce requires an active plan on file for
27 this planning grant project.

28 Commissioner Byrd moved to adopt the CDBG NC Tomorrow Citizen Participation Plan. Ms.
29 Styron seconded the motion. The motion passed on the following vote:

1 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

2 **Interlocal Agreement for Public Defender’s Office**

3 Sharon Sadler, Hyde County Clerk of Court, reported that in accordance with NCGS 7A-302 and
4 304, the Honorable Judge Wayland Sermons has requested that counties in the Second Judicial
5 District support the housing of the Public Defender’s Office in Beaufort County. The Second
6 Judicial Advisory Council, comprised of Judge Sermons, Chief District Court Judge Michael Paul
7 and all five Clerks of Court in the District agree with operation of this agreement on a pro-rated
8 share, based on each county’s population.

9 Clerk of Court Sadler reported that adequate funds are available in Facility Services and that
10 inmates will not be transported to the Public Defender, which will save the Sheriff’s Department
11 money currently being spent for transportation of inmates.

12 Cost of the facility will be shared on a pro-rated basis for acquiring office space to be located at 105
13 Union Drive, Washington, NC, at a monthly rental amount of \$2,650.00. Hyde County’s portion of
14 the payment is six percent or \$159.00.

15 Commissioner Byrd moved to approve the *Interlocal Agreement between the Counties of*
16 *Beaufort, Hyde, Martin, Tyrrell and Washington*. Mr. Swindell seconded the motion. The motion
17 passed on the following vote:

18 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

19 **Contract for Service of Lobbyists 2013**

20 Mazie Smith, County Manager, reported that the contract for lobbying services provided to Hyde
21 County in 2012 will expire on December 31, 2012. This contract was awarded in cooperation with
22 Beaufort and Pamlico Counties for the joint purpose of opposing the addition of and increases in
23 ferry tolls to Ocracoke. As a result of this effort, tolls were not placed on the Hatteras/Ocracoke
24 ferry service, however the moratorium issued by the Governor for increasing tolls will expire on
25 December 31, 2013.

26 Beaufort County has decided to renew their contract and has invited Hyde County to partner with
27 them once again. The total cost is \$10,000.00, with \$300.00 due at signing. The \$300.00 fee was
28 paid last year by the Hyde County Chamber of Commerce and the Ocracoke Occupancy Tax Board
29 paid the balance.

30 After discussion, Commissioner Byrd moved to requests funding for renewal of the contract for
31 lobbying services from both Hyde County Occupancy Tax Boards at a proportionate rate of 30%
32 from the Mainland Occupancy Tax Board and 70% from the Ocracoke Occupancy Tax Board. Mr.
33 Swindell seconded the motion. The motion passed on the following vote:

1 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

2 **Waive Building Permit Fees – Ocracoke Fire Prevention Association**

3 Darlene Styron, Ocracoke Commissioner, reported that the Ocracoke Fire Prevention Association
4 has raises \$1,000,000.00 for construction of the new Ocracoke Fire Department building.

5 The Board of Commissioners congratulated and commended all of the volunteers who made the
6 construction project possible.

7 Commissioner Byrd moved to waive building permit fees for the new Ocracoke fire department.
8 Ms. Spencer seconded the motion. The motion passed on the following vote:

9 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

10 **ABC Board Report**

11 Keith Parker-Lowe, Chairman, Hyde County ABC Board, reported \$6,318.00 year-to-date net profit
12 for the ABC Board. He reported sales of \$48,000.00 in October and \$25,000.00 in November to
13 date. The current fund balance is approximately \$38,000.00. He and Don Bachman completed
14 ethics training.

15 Chairman Parker-Lowe reported that the Hyde County ABC Board has hired Kenny Ballance to
16 serve as the ABC law enforcement officer in order to meet North Carolina ABC Board
17 requirements. Mr. Ballance will be paid \$12,000.00 per year pursuant to a one-year contract with
18 the ABC Board. The contract renews annually.

19 Members of the ABC Board receive \$150.00 per monthly meeting for their service on the Board.
20 Chairman Parker-Lowe reported that the North Carolina per diem rate has increased and requested
21 the County pay ABC Board members \$600.00 per monthly meeting.

22 An auditor has been hired by the ABC Board to correct old audits. Chairman Parker-Lowe reported
23 that findings will be turned over to the SBI when the audit is complete. The Hyde County Finance
24 Office has requested and must have ABC Board audit findings as soon as possible in order for
25 Andrew Harris, CPA, to complete the County audit.

26 Commissioner Swindell moved to approve increase in payment to the ABC Board Chairman to
27 equal \$250.00 per monthly meeting. Mr. Tunnell seconded the motion. The motion passed on the
28 following vote:

29 Ayes – Byrd, Swindell and Tunnell Nays – Spencer and Styron

30 Commissioner Styron moved to approve the Hyde County ABC Board Travel Policy as presented
31 by Chairman Keith Parker-Lowe. Mr. Tunnell seconded the motion. The motion passed on the
32 following vote:

1 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

2 **Budgetary Matters:**

3 Mazie Smith, County Manager, reported that in accordance with the FY2011-2012 Budget
4 Ordinance, Article XIX, Section 1, no budget transfers were approved administratively.
5 Additionally, two transfers needed Board approval.

Board Approval Required			
Department	Program	Amount	Explanation
Health	Home Health	\$ 3,500.00	Transfer from Salaries P/T line to Travel line in Home Health to cover travel expense for part-time Therapy staff.
EM	EMS	\$17,865.11	Transfer funds from various Emergency Management lines into various Emergency Medical Services lines based upon transfer of funds for the EMS positions approved by the Hyde County Board of Commissioners on 11-13-2012. The revisions offset one another and no net change occurs in the county budget.

6
7 Commissioner Swindell moved to approve the Health Department budget transfer as presented by
8 Director Smith. Mr. Byrd seconded the motion. The motion passed on the following vote:

9 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

10 Commissioner Tunnell moved to approve the EM/EMS budget transfer as presented by Emergency
11 Management Director Gibbs. Ms. Styron seconded the motion. The motion passed on the
12 following vote:

13 Ayes – Spencer, Styron and Tunnell Nays – Byrd and Swindell

14 **County Commissioners Reports:**

15 **Commissioner Byrd** – reported that he attended the Coastal Resources Commission meeting where
16 salt water intrusion and sea level rise were discussed.

17 **Commissioner Styron** – thanked Hyde County for her term as Commissioner.

18 **Commissioner Spencer** – reported that she attended the Albemarle Commission meeting. Ms.
19 Spencer reported that the parking lot pavement project was paid for by the Board of Education with
20 Capital Improvement funds, which cannot be used for salaries.

21 **Commissioner Swindell** – no report given.

22 **Commissioner Tunnell** – no report given.

23 **County Manager's Report:**

1 Manager Smith stated that it has been a great honor to serve with Commissioners Spencer and
2 Styron. Both ladies have worked hard to provide services to citizens of Hyde County. She also
3 reported that she is looking forward to a positive future as Manager of Hyde County.

4 Two items of concern will be on the December 3, 2012 Board of Commissioners Meeting Agenda:
5 1) US Fish & Wildlife expansion of Pocossin Refuge acreage and 2) Seal Level Rise will be
6 presented by Mr. Spencer Rogers.

7 **Public Comments:**

8 Chairwoman Spencer called for comments from the public.

9 There being no comments from the public, Chairwoman Spencer continued the meeting.

10 **Closed Session** (none)

11 **Department Reports**

- 12 a) Animal Control
- 13 b) Health Department
- 14 c) Senior Center
- 15 d) Code Enforcement/Inspections]
- 16 e) Tax Department

17
18 **Supplemental Information** (none)

19 **Meeting Calendar – November**

- 20
- 21 19th Commissioners Meeting – 6:00pm
- 22 22nd Thanksgiving Day
- 23 23rd Holiday (offices closed)
- 24 26th Postal Service Meeting at Swan Quarter Post Office – 5:00pm
- 25

26 Commissioner Byrd moved to adjourn the meeting. Mr. Swindell seconded the motion. The
27 motion passed on the following vote:

28
29 Ayes – Byrd, Spencer, Styron, Swindell and Tunnell Nays – None

30 The meeting adjourned at 8:00p.m.

31
32 Respectfully submitted:

33
34 Minutes approved on the 3rd day of December, 2012.

35
36

1 _____
2 Lois Stotesberry, Deputy Clerk
3 Hyde County Board of Commissioners
4

SEAL

5 _____
6 Chairman, Hyde County Board of Commissioners
7

8 Attachments:

9 Exhibit A - *“Resolution of Hyde County – NC Catalyst Program Application to Assist in Funding*
10 *Hycienda Heights Development Project”*

DRAFT



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Citizens

Title:

Agency/Dept.:

Item Title: Public Comments

Attachments: Yes

Description: Citizens are afforded an opportunity at this time to comment on issues they feel may be of importance to the Commissioners and to their fellow citizens. Comments should be kept to (3) minutes and directed to the entire board, not just one individual Commissioner, staff member or to a member of the audience. Time for one person cannot be used by another person. Comments that reflect the need for additional assistance will be directed to the County manager or referred to a future meeting agenda.

Times Read:

Impact on Budget:

Recommendation: Listen for understanding

			<u>Yea</u>	<u>Nay</u>
<input type="checkbox"/> A. Byrd	<input type="checkbox"/> A. Byrd	A. Byrd	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> J. Fletcher	<input type="checkbox"/> J. Fletcher	J. Fletcher	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> E. Pugh	<input type="checkbox"/> E. Pugh	E. Pugh	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> B. Swindell	<input type="checkbox"/> B. Swindell	B. Swindell	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> D. Tunnell	<input type="checkbox"/> D. Tunnell	D. Tunnell	<input type="checkbox"/>	<input type="checkbox"/>



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Spencer Rogers

Title: Coastal Engineer

Agency/Dept.: UNC Sea Grant Program, UNCW

Item Title: Presentation on Sea Level Rise

Attachments: Yes

Description: The Commissioners asked for information on the issue of sea-level rise and how Hyde County should prepare to adapt to the changes predicted. Spencer Rogers is a national expert of this topic and works for the N.C. Sea Grant program at the University of North Carolina in Wilmington. He will share information with the board based on his research of the subject.

Times Read: First

Impact on Budget: Does not increase the budget.

Recommendation: Listen, question for understanding

			<u>Yea</u>	<u>Nay</u>
<input type="checkbox"/>	A. Byrd	<input type="checkbox"/>	A. Byrd	<input type="checkbox"/>
<input type="checkbox"/>	J. Fletcher	<input type="checkbox"/>	J. Fletcher	<input type="checkbox"/>
<input type="checkbox"/>	E. Pugh	<input type="checkbox"/>	E. Pugh	<input type="checkbox"/>
<input type="checkbox"/>	B. Swindell	<input type="checkbox"/>	B. Swindell	<input type="checkbox"/>
<input type="checkbox"/>	D. Tunnell	<input type="checkbox"/>	D. Tunnell	<input type="checkbox"/>



NORTH CAROLINA SEA GRANT EXTENSION PROGRAM

UNC-Wilmington Center for Marine Science
5600 Marvin Moss Lane
Wilmington, N.C. 28409

Telephone: 910/962-2491
rogerssp@uncw.edu

ADAPTATION TO SEA-LEVEL RISE IN COASTAL NORTH CAROLINA?

*Spencer Rogers
North Carolina Sea Grant*

Proposed regulations by the North Carolina Coastal Resources Commission that would implement future sea-level rise provisions into local planning documents have received widespread criticism from some local governments and segments of the public. National reactions as to the need for sea-level rise planning have in some cases been similar.

But in reality, for more than four decades North Carolina coastal communities have been implementing actions that already serve to adapt to future sea-level rise. Most of those adaptations have been based on local recognition of broader coastal hazards. In perspective, recent interest in the potential for accelerated sea-level rise over the next century is best considered as one more reason to justify actions to address much more immediate and extreme hazards.

Marketing nightmare

The reaction to sea-level rise planning should not be surprising given a number of factors associated with the science of climate change and sea-level rise. The public perceives both to be constants due to the minimal change that can be observed by personal experience. However, when measured over long periods of time, several climate measures suggest a gradual warming and, in particular, a rising sea level as measured in most of the U.S. and global tide gages.

Actively addressing the threats of sea-level rise and the need for planning is crippled by several significant limitations.

- The rate of change by visual observation is practically imperceptible.
- The historical rates of rise are buried within daily, seasonal and astronomical (20-year) variations that are as much as 1,000 times larger than the long-term trends.
- Documentation of the historical rate of rise requires careful analysis of long-term tidal records, consistently measured for 20 or more years, preferably for a century. Such records are available in only a few locations in North Carolina.
- Contrary to public perception, the elevation of the land area is not a constant either, and thus regional results can differ. The relative change between a varying land elevation and rising sea level determines the relative impact at each location.

- Time frames for significant accumulated risk from sea-level rise in the future are on the order of 50 to 100 years. The public, the community and local politics are more concerned with what might happen tomorrow, or next hurricane season rather in the next century.
- Climate modeling is an evolving science that is subject to public mistrust when forecasters struggle to predict the local weather tomorrow. Why should modeling be any better at predicting the next century, they may ask.
- As with any evolving science, advancement is subject to many individual differences of scientific opinion, a necessary give and take, to reach a more reliable consensus. There is a perception that the lack of a single prediction makes all of the science wrong. Sir Isaac Newton once had to debate the existence of gravity but public acceptance now takes it for granted.
- For better or worse, climate change and sea-level rise have been dragged into political debates on whether the changes are man-induced or not. For planning purposes it does not matter what causes it. As future changes are compared with the historical record to better predict in the future, only the size of the change and our ability to plan for those changes will be important.

For all of the above reasons, marketing long-range sea-level rise planning is now and for the foreseeable future, likely will be difficult to market to the public and to local governments.

Is sea-level rise planning doomed?

At least for long-range sea-level rise planning, a closer look at several common community practices suggests not. Although the gradual rise in sea level will be mostly imperceptible, the changes that coastal communities are likely to observe are:

- a gradual increase in the frequency of nuisance, shallow-water flooding events in low-lying, problem areas, and
- a gradual increase in the depth of extreme or design flood events.

It turns out that sea-level rise adaptation planning is often the same action as coastal floodplain hazard mitigation. Coastal communities in North Carolina have been implementing floodplain management planning and regulations for more than 40 years.

Coastal flood hazards are much easier for the public to understand. They are a problem now — not in the next century. Flooding potentially could occur tomorrow or at least next hurricane season. Often communities experience nuisance flooding with small storms or spring tides. Many parts of the state have experienced severe storm-surge flooding in recent memory: Emily, Fran, Floyd, Isabel, and Irene to name a few. Communities and residents often have first-hand experience with flood damage, thus making the need for planning an obvious and immediate need.

The National Flood Insurance Program (NFIP) establishes, and most communities have implemented, minimum standards for construction within the 100-year floodplain. The floodplain includes the oceanfront dunes and low-lying land around coastal bay, streams and inland rivers. The regulations and floodplain maps are based on present conditions and do not include any future rise in sea level. However, many coastal communities have already adopted higher standards for the floodplain — standards that also apply to any future rise in sea level. Financial incentives for communities and individual property owners already are available to encourage the adoption of higher standards.

Community Rating System

A common adaptation example is voluntary community participation in the Community Rating System, or CRS, from the Federal Emergency Management Agency, or FEMA. CRS identifies a variety of local practices that are: higher than the minimum standards; improve property owner and public flood hazard awareness; reduce future damage; and/or improve flood preparedness. Each practice is awarded points which are totaled for the community. Qualifying CRS communities receive discounts between 5 and 45% applied to every flood insurance (NFIP) annual premium in the community. The insured owner saves every year because the community has adopted the higher standards for new construction.

Nationally, less than 6% of the flood-prone communities participate in CRS. In North Carolina, 87 communities (14%) participated in 2010, saving property owners more than \$7 million dollars. In the 20 coastal counties, 49 communities participated (44%) representing about half of the coastal population. (See table below.) Therefore, about half of the coastal population already has implemented sea-level rise adaptation thru community participation in the Community Rating System.

N.C. Coastal Communities the Community Rating System

CRS Discount	#	%	Cumulative %	Cumulative % of population
20% Discount	4	4%	4%	1%
15% Discount	7	6%	10%	2%
10% Discount	29	26%	36%	48%
5% Discount	9	8%	44%	50%
No CRS	63	56%		50%

Total: 112 Communities

Freeboard

A second floodplain management practice that also functions as sea-level rise adaptation is building new houses and other buildings higher than the minimum 100-year flood requirement for lowest floor elevation. The national standard may sound safe, occurring on average only once in every 100 years or a 1% chance each year. Over the lifetime of an average house, the risk accumulates to about 50%, like flipping coins, heads or tails. In contrast to the flood standard, the latest building codes are based on 700-year wind speeds but few people on the coast question the existing design requirements for the hurricane winds. Building higher floor elevations adds a safety factor lacking from the national flood standards.

The added elevation is called freeboard, for a boating term. Freeboard may be adopted by a community for new construction enabling all insured buildings, including older buildings with lower floors, to qualify for CRS points equivalent to about 1% discount for each foot of freeboard, up to 3 feet. National and N.C. statistics on freeboard requirements are not available. A recent survey of the CAMA coastal counties found the community implementation in the table below.

A few communities have already adopted 3 feet of freeboard, close to the higher CAMA planning targets for sea-level rise over the next century. Around 46% of the coastal communities have adopted at least 2 feet of freeboard. Because some of the largest communities are included, about 70% of the coastal population is already living

with at least 2 feet of freeboard. Overall, 61% of the coastal communities, representing 76% of the population, have already chosen to implement 1 foot or more of freeboard. Although adopted for higher hurricane hazard standards, three out of four coastal residents live in areas where communities have already adapted to 1 foot or more of potential sea-level rise due to locally implemented freeboard requirements.

Effective March 1, 2012, the N.C. Residential Building Code amendments require 1 foot of freeboard for all new houses in the state. Therefore, all new houses will have effectively adapted to 1 foot of sea-level rise in all of the 112 CAMA coastal communities.

NC Coastal Communities Requiring Freeboard

Freeboard	#	%	Cumulative %	Cumulative % of Population
3 feet	3	3%	3%	0.5%
2 feet	48	43%	46%	70%
1 foot*	17 / 64	15% / 57%	61% / 100%	76% / 100%
No freeboard*	44 / 0	39% / 0%		24% / 0%

*Local / N.C. Residential Building Code (effective 3/1/12)

Most coastal property owners with a flood insurance policy qualify for somewhat lower premiums for community-adopted freeboard thru CRS. However the individual building owners that are either required to add freeboard or, where not required, choose to add freeboard, can qualify for even larger annual premium discounts for each foot of freeboard the building is constructed above the 100-year flood elevation. Discounts depend on the flood zone, increasing with higher risk. The highest discounts are available for 3 feet of freeboard in the V-zone, where the added floor elevation reduces premiums by about two-thirds of the normal premium. Any community CRS discount further lowers the annual cost.

Other hidden sea-level rise adaptations in place

Historical shoreline erosion rates: In North Carolina, erosion rates are used to establish minimum ocean setbacks for new construction without any consideration for future acceleration in the rate of sea-level rise. However, the historical erosion rates include the historical sea-level rise that occurred over the study period, typically around 70 years. The result is a statewide setback requirement based on erosion rates that include a future sea-level rise of 1 to 1.5 feet per century, depending on the community.

Sea-level rise frequently gets blamed in the media for some of our worst erosion problems. Unfortunately no one has accurately measured or modeled the historical impact of sea-level rise as a share of our observed erosion rates. However, it is clear that the highest erosion rates are due to local causes, unrelated to sea-level rise. The highest erosion may make the headlines but a better indicator of the impact of sea-level rise is better evidenced by the fact that about half the N.C. coast has a historical erosion rate of 1 foot per year or less. On that basis, a reasonable best guess for the historical impact of sea-level rise on the erosion rate is 1 foot per year. Planning future erosion rates for twice the historical sea-level rise rate would not double the erosion rate but rather add around a foot per year. For half the state with historical erosion rates at 1 foot per year or lower, the minimum setback is already 2 feet per year and therefore already included in the present regulations. Where historical erosion is now 2 feet per year,

doubling the historical rate of sea-level rise would suggest an erosion rate of 3 feet per year. In Rodanthe, doubling the rate of future sea-level rise would only increase the erosion rate from 14 to 15 feet per year. Where other erosion causes are already very high, sea-level rise becomes an insignificant factor in the accuracy of future shoreline predictions.

Natural inlet adjustments: The state's highest shoreline erosion rates always will be around our tidal inlets. Short-term changes of over 100 feet per year are not uncommon. It is surprising to most people that inlets are one of the few geographic features that self-regulate to minimize change due to sea-level rise. The minimum size of the inlet opening varies around a cross-section dictated by the ocean tide range, the tidal prism (or volume of water that rises and falls behind the barrier islands, moving thru the inlet) and the volume of longshore sand transport along the ocean shoreline. The ocean tide drives the tidal prism in and out, attempting to enlarge the inlet, while the longshore sand transport attempts to fill in or close the inlet. The result is a widely varying inlet opening size around some average cross-section.

Most climate predictions suggest that these factors will remain unchanged with rising sea-level. The bottom of the inlet openings will gradually rise in elevation with sea-level but will maintain the same size ranges and continue the historical high shoreline change rates. N.C. inlets are generally self-adjusting to sea-level rise.

Conclusions

Sea level historically has been rising in North Carolina over the last few centuries. We may not know the cause, but the rate of rise shows no sign of slowing. Based on other climate observations, the rise probably will accelerate over the next century. Planning for a threat 100 years in the future for something changing so slowly that we cannot likely see the change over 20 years, using science that is still actively being debated, will be very difficult to market to decision makers and to the public. Tools to make a better case for sea-level rise planning will not get much better in the foreseeable future.

However, the most severe consequence of long-term sea-level rise is an imperceptibly slow increase in the severity of the coastal hazards that we will face tomorrow, next hurricane season or in some communities, last hurricane season. Many of the actions already in place — such as participation in the Community Rating System; freeboard increases either by local regulation or homeowner choice; or the use of historical erosion rates for shoreline setbacks — have been implemented for other reasons. However, these same actions and programs also will be effective for long-range sea-rise planning and adaptation.

The damage reports from every coastal storm should be an obvious indicator that we need to do a better job at planning for the short-term coastal hazards. Rather than panic over the suggestion for long-range sea-level rise planning, it would be better to recognize it as another item on a long list of reasons to make better plans for a variety of coastal hazards.

3/1/2012

**COMMUNITY FREEBOARD ADOPTION AND COMMUNITY
RATING SYSTEM PARTICIPATION
NC CAMA Coastal Counties**

NC COASTAL COMMUNITIES IMPLEMENTING FREEBOARD REQUIREMENTS				
Communities requiring:	#	%	Cumulative %	Cumulative % by Population
3 feet of Freeboard	3	3%	3%	0.5%
2 feet of Freeboard	48	43%	46%	70%
1 feet of Freeboard				
Local/Building Code*	17 / 64	15% / 57%	61% / 100%	76% / 100%
No Freeboard				
Local/Building Code*	44 / 0	39% / 0%		24% / 0%

CAMA Coastal Counties: 20
Incorporated Communities: 92

* Residential Building Code
(effective 3/1/12)

NC COASTAL COMMUNITIES PARTICIPATING IN THE COMMUNITY RATING SYSTEM				
Communities requiring:	#	%	Cumulative %	Cumulative % by Population
20% Discount	4	4%	4%	1%
15% Discount	7	6%	10%	2%
10% Discount	29	26%	36%	48%
5% Discount	9	8%	44%	50%
None	63	56%		50%

(in effect Nov. 2011)

Community Name	County	Freeboard (ft)	Notes	Community		Population
				Rating System	CRS Discount (%)	
_Beaufort County	Beaufort			8	10	47,759
Aurora, Town of	Beaufort					520
Bath, Town of	Beaufort					249
Belhaven, Town of	Beaufort			8	10	1,688
Chocowinity, Town of	Beaufort					820
Pantego, Town of	Beaufort					179
Washington Park, Town of	Beaufort			8	10	451
Washington, City of	Beaufort		repealed 1' ~2001	8	10	9,744
_Bertie, County of	Bertie	1				21,282
Askewville, Town of	Bertie					241
Aulander, Town of	Bertie	1				895
Colerain, Town of	Bertie	1				204
Lewiston-Woodville, Town of	Bertie					549
Roxobel, Town of	Bertie	1				240
Windsor, Town of	Bertie	3				3,630
_Brunswick County	Brunswick	2				107,431
Bald Head Island, Village of	Brunswick					158
Belville, Town of	Brunswick	2				1,936
Bolivia, Town of	Brunswick	2				143
Calabash, Town of	Brunswick	2				1,786
Caswell Beach, City of	Brunswick	2		7	15	398
Holden Beach, Town of	Brunswick			8	10	575
Leland, Town of	Brunswick	2				13,527
Navassa, Town of	Brunswick					1,505
Northwest, City of	Brunswick	2				735
Oak Island, Town of	Brunswick	1		8	10	6,783
Ocean Isle Beach, Town of	Brunswick	3		8	10	550
Sandy Creek, Town of	Brunswick	2				260
Shalotte, Town of	Brunswick					3,675
Southport, City of	Brunswick	3		8	10	2,833
St. James, Town of	Brunswick	2				3,165
Sunset Beach, Town of	Brunswick	1		8	10	3,572
Varnamtown, Town of	Brunswick					541
_Camden County	Camden	1				9,980
_Carteret County	Carteret			8	10	66,469
Atlantic Beach, Town of	Carteret		repealed in 2009	8	10	1,495
Beaufort, City of	Carteret	1		8	10	4,039
Bogue, Town of	Carteret	2				684
Cape Carteret, Town of	Carteret	2		8	10	1,917
Cedar Point, Town of	Carteret			8	10	1,279
Emerald Isle, Town of	Carteret	2		7	15	3,655
Morehead City, Town of	Carteret	1		8	10	8,661

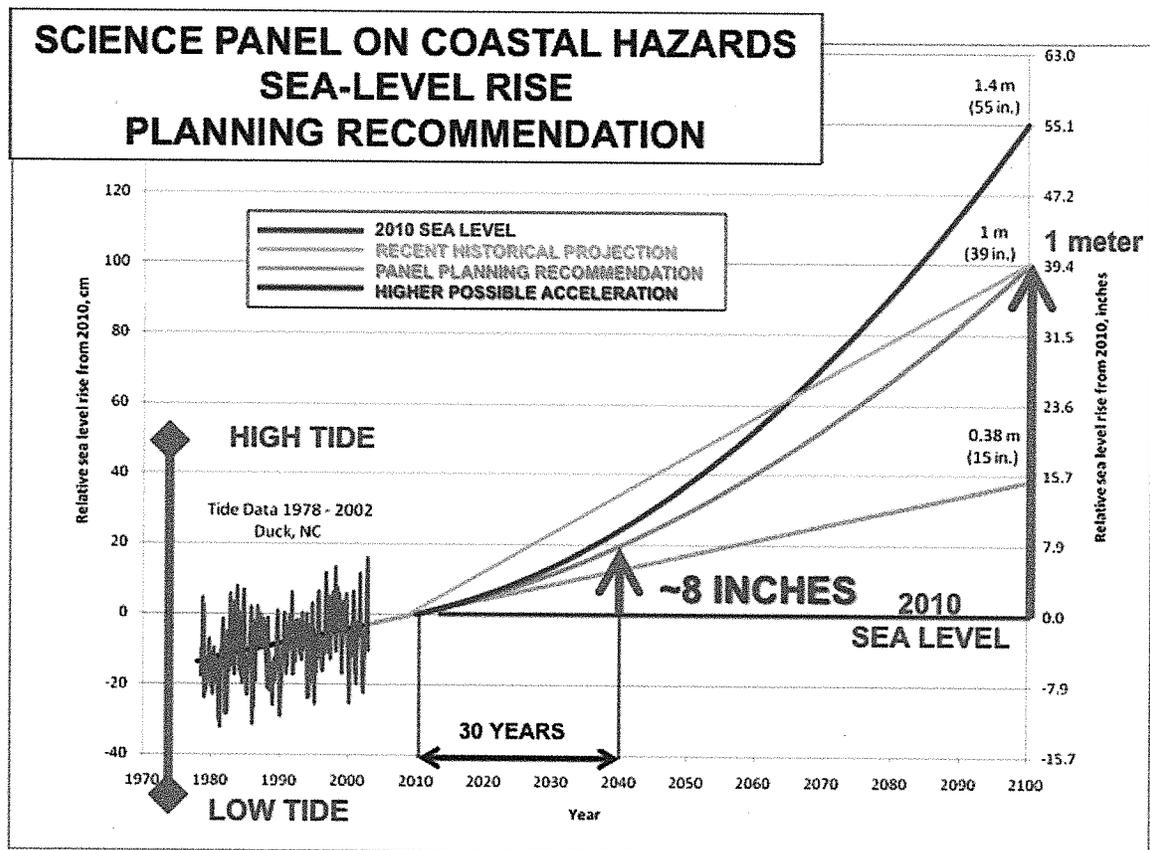
<u>Community Name (cont'd)</u>	<u>County</u>	<u>Freeboard (ft)</u>	<u>Notes</u>	<u>Community</u>	<u>Community</u>	<u>Population</u>
				<u>Rating System</u>	<u>CRS Discount</u>	
				<u>Class</u>	<u>(%)</u>	
Newport, Town of	Carteret	1		8	10	4,150
Peletier, Town of	Carteret	2				644
Pine Knoll Shores, Town of	Carteret	2		7	15	1,339
Indian Beach, Town of	Carteret					112
_Chowan County	Chowan	2				14,793
Edenton, Town of	Chowan	2		9	5	5,004
_Craven County	Craven	2		8	10	103,505
Bridgeton, Town of	Craven	2				454
Havelock, City of	Craven			8	10	20,735
New Bern, City of	Craven	2		10	0	29,524
River Bend, Town of	Craven	2		8	10	3,119
Trent Woods, Town of	Craven					4,155
Vanceboro, Town of	Craven					1,005
_Currituck County	Currituck			8	10	23,547
_Dare, County of	Dare			8	10	33,920
Duck, Town of	Dare			7	15	369
Kill Devil Hills, City of	Dare			6	20	6,683
Kitty Hawk, Town of	Dare	1		6	20	3,272
Manteo, Town of	Dare			8	10	1,434
Nags Head, City of	Dare			6	20	2,757
Southern Shores, Town of	Dare	2		7	15	2,714
_Gates County	Gates	2				12,197
Gatesville, Town of	Gates	2				321
_Hertford, County of	Hertford	2				24,669
Ahoskie, Town of	Hertford					5,039
Cofield, Village of	Hertford	2				413
Como, Town of	Hertford	2				91
Harrellsville, Town of	Hertford					106
Mufreesboro, Town of	Hertford	2				2,835
Winton, Town of	Hertford	2				769
_Hyde County	Hyde	1		9	5	5,810
_New Hanover County	New Hanover	2		8	10	202,667
Carolina Beach, Town of	New Hanover		repealed 2' in 2007	7	15	5,706
Kure Beach, Town of	New Hanover					2,012
Wilmington, City of	New Hanover	2				106,476
Wrightsville Beach, Town of	New Hanover	2		8	10	2,477
_Onslow County	Onslow	2				177,772
Holly Ridge, Town of	Onslow	2				1,268
Jacksonville, City of	Onslow	2		8	10	70,145
North Topsail Beach, Town of	Onslow	2		7	15	743
Richlands, Town of	Onslow	2				1,520
Swansboro, Town of	Onslow	2				2,663
_Pamlico, County of	Pamlico	2		9	5	13,144
Alliance, Town of	Pamlico	2		9	5	776
Arapahoe, Town of	Pamlico	2				556
Bayboro, Town of	Pamlico			9	5	1,263
Grantsboro, Town of	Pamlico	2				688
Mesic, Town of	Pamlico	2				220
Minnesott Beach, Town of	Pamlico	2		9	5	440
Oriental, Town of	Pamlico			9	5	900
Stonewall, Town of	Pamlico	2		9	5	281
Vandemere, Town of	Pamlico	2		9	5	254
_Pasquotank County	Pasquotank					40,661
Elizabeth City, Town of	Pasquotank					18,683
_Pender County	Pender	2				52,217
Atkinson, Town of	Pender	2				299
Burgaw, Town of	Pender		repealed 6" in 2003			3,872
Saint Helena, Village of	Pender		repealed 6" in 2003			389
Surf City, Town of	Pender					1,853
Topsail Beach, Town of	Pender	1		6	20	368
Watha, Town of	Pender					190
_Perquimans County	Perquimans					13,453
Hertford, Town of	Perquimans					2,143
Winfall, Town of	Perquimans					594
_Tyrrell County	Tyrrell					4,407
Columbia, Town of	Tyrrell	2				891
_Washington County	Washington	1		8	10	13,228
Creswell, Town of	Washington	1		8	10	276
Plymouth, Town of	Washington	1		8	10	3,878
Roper, Town of	Washington	1		8	10	611
Total	112	68				1,401,672

Putting N.C. Sea-Level Rise in Human Terms

by Spencer Rogers
Coastal Construction and Erosion Specialist
North Carolina Sea Grant
Posted Friday, June 1, 2012

Spencer Rogers has been with the North Carolina Sea Grant extension program for more than 30 years. He is a long-time member of the state's Science Panel on Coastal Hazards and the N.C. Coastal Resources Advisory Council.

I am a member of the state's Science Panel on Coastal Hazards, a group of scientists and engineers that was asked by the N.C. Coastal Resources Commission to recommend a planning target for sea-level rise in North Carolina through the year 2100. The panel's report is technical and includes a number of significant assumptions and uncertainties for the state's first planning effort. The report includes recommendations to refine the assumptions and reduce the uncertainties as the issue is updated every five years. The panel recommended using a planning target of 1 meter, or 39 inches, by 2100.



Based on graph from the N.C. Coastal Resources Commission's Science Panel on Coastal Hazards document, titled "North Carolina Sea Level Rise Assessment Report." Click [here](#) for larger PDF version of the graph. Click [here](#) for full report.

This number reflects a combined rise based on historical data and anticipated but not-yet-observed acceleration due to climate warming. (See graph.) But sea-level rise discussions go beyond scientific issues. Although useful for some planning purposes, almost no one plans for 90 years in the future. As a Sea Grant outreach educator, I will try to put the science of the recommendations into a human perspective and a more realistic timeline.

Changes in sea level are very small trends in a constantly changing water level. Consider that most ocean tides are driven by the gravity of the moon (80%) and the sun (20%). The average daily tidal range on the N.C. open coast varies from about 3 feet in Corolla to 5 feet in Sunset Beach. The relative position of the earth, moon and sun vary over a ~19-year period before repeating. Thus, measuring sea level requires observing a few inches of annual change in a twice-a-day cycle for at least a 20-year period.

The panel's 2100 recommendation to plan for 1 meter is similar to international studies that predict various ranges, most falling between 0.5 and 2 meters. But it is likely that no one reading this today will be around in 2100. Even a 1-meter (39-inch) rise in sea level sounds scary. What should one expect next year, or over timelines that are more likely to be meaningful to the average person.

The historical rate of sea-level rise at the U.S. Army Corps of Engineers research pier in Duck has been a little more than the thickness of 2 nickels — stacked flat, on top of one another — per year. If you averaged the predicted accelerated rate for the next 90 years, the annual rise would be a little less than 6 nickels thick.

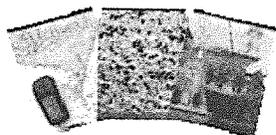
Because almost no one plans for events 90 years into the future, a more common reference might be that of a 30-year mortgage or 30-year ocean setback line. To look at shorter periods, it is important to note that most sea-level studies, like the panel's, do not observe any recent acceleration in the rate of rise.

If climate gradually warms as expected, it is unlikely that the rate of sea-level rise will instantly triple. Rather, most predict a gradually (constantly) accelerating increase in the rate of rise. The difference is not clearly described in most studies, but can be seen in most of the prediction graphs. It is the difference between the curved predictions and a straight line between the present level and the 2100 prediction.

The panel's planning recommendation to the CRC, averaged over the next 30 years, reflects an acceleration of about another nickel thickness per year to the historical rate, bringing the total to a little more than 3 nickels per year. Over the next 30 years, that would add up to a little less than 8 inches in rise, including less than 3 inches in acceleration above the historical projection.

Can coastal North Carolina survive such rates of sea-level rise? Well, sure. Anyone born on the Outer Banks and now aged 46 or older has already lived through the accelerated sea-level rise that the panel has recommended planning for in the next 30 years.

My conclusion: The Science Panel on Coastal Hazards' planning recommendations for the Coastal Resources Commission over the next 30 years amounts to small change, that is just more than the thickness of 3 stacked nickels a year. Might this be a level for which residents, businesses and communities can begin to plan?

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Spencer Rogers, Coastal Construction & Erosion Specialist

**Location:** Wilmington

For more than 30 years, Spencer Rogers has helped private property owners, builders, designers, and governmental agencies to develop hurricane-resistant construction methods, understand shoreline erosion alternatives and implement marine construction techniques. He serves on the faculty at the University of North Carolina at Wilmington's Center for Marine Science, and as adjunct faculty in the department of civil, construction, and environmental engineering at North Carolina State University.

Rogers co-authored *The Dune Book*, a guidebook on dune species, planning, and best management practices along developed shorelines. He also has contributed to the FEMA Coastal Construction Manual. His research has been published in numerous scholarly journals, including the *Journal of the American Shore and Beach Preservation Association*, and the *Journal of Marine Education*. He also is a regular speaker at conferences about coastal engineering and hazards, including the annual *Solutions to Coastal Disasters*. In 2005, Rogers was part of a select group of engineers and scientists on the FEMA Hurricane Katrina Mitigation Assessment Team to conduct a coastal damage evaluation in Mississippi, Louisiana and Alabama.

Rogers joined Sea Grant in 1978, having worked as a coastal engineer for the Bureau of Beaches and Shores in the Florida Department of Natural Resources during his early career. He holds a master's in coastal and oceanographic engineering from the University of Florida and a bachelor's in engineering from the University of Virginia.

Telephone: 910/962-2491
Fax: 910/962-2410
E-mail: rogerssp@uncw.edu

High-resolution photo (4"x6", 240 dpi, 303kb)

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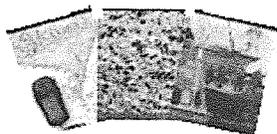
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Sea Grant Focus Areas

For more than 30 years, North Carolina Sea Grant has provided innovative research and outreach projects and programs that fulfill focus area goals highlighted in the National Sea Grant **Strategic Plan**.

Healthy Coastal Ecosystems



Sound scientific information to support ecosystem-based approaches to managing the coastal environment. Widespread use of ecosystem-based approaches to managing land, water and living resources in coastal areas. Restored function and productivity of degraded ecosystems.

Sustainable Coastal Development



Healthy coastal economies that include working waterfronts, an abundance of recreation and tourism opportunities, and coastal access for all citizens. Coastal communities that make efficient use of land, energy and water resources and protect the resources needed to sustain coastal ecosystems and quality of life.

Coastal citizens, community leaders, and industries that recognize the complex interrelationships between social, economic and environmental values in coastal areas and work together to balance multiple uses and optimize environmental sustainability.

Safe and Sustainable Seafood Supply



A sustainable supply of safe seafood to meet public demand. A healthy domestic seafood industry that harvests, produces, processes, and markets seafood responsibly and efficiently. Informed consumers who understand the importance of ecosystem health and sustainable harvesting practices to the future of our domestic fisheries, who appreciate the health benefits of seafood consumption, and who understand how to evaluate the safety of the seafood products they buy.

Hazard Resilience in Coastal Communities



Widespread understanding of the risks associated with living, working, and doing business along the nation's coasts. Community capacity to prepare for and respond to hazardous events. Effective response to coastal catastrophes.

In addition, North Carolina Sea Grant and the **national network** work toward three cross-cutting goals:

Sound scientific information to advance understanding of the nature and value of our coastal, ocean, and Great Lakes resources; to identify new ways to conserve and use these resources; and to support evaluation of the environmental impacts and socioeconomic trade-offs involved in coastal decision-making.

An informed public that understands the value and vulnerability of coastal, ocean, and Great Lakes resources, and demands informed science-based decisions about the conservation, use, and management of these resources, and a well-trained workforce that will make this a reality.

Decision-making processes that involve the full-range of coastal interests, that integrate efforts of public and private partners at the federal, regional, state, and local levels, and provide mechanisms for establishing common understandings and generating outcomes that balance multiple interests.

Photos: Mark Buckler, NC Wildlife Resources Commission, Paul Stephen



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Andy Lamm

Title: President

Agency/Dept.: Lamm Engineering Associates, PLLC

Item Title: Presentation of Options for Renovating the Public Safety Center

Attachments: Yes

Description: The County Manager has been exploring options for developing a long-range Capital Improvement Plan for county facilities. To begin the process, she and staff members have met with numerous engineers and architects to address the issues at the Public Safety Center, deemed to be facility in greatest need of renovation and re-purposing. At her request, representatives of Lamm Engineering Associates met with Commissioner Barry Swindell, Public Works Director Clint Berry, Finance Director Corrinne Gibbs, and Deputy Gary Midgette of the Hyde County Sheriff's Department on November 29th to learn more about the possibilities, scope of work and cost of renovations. They will share their findings with the Commissioners and the public.

Times Read: First

Impact on Budget: Does not increase the budget.

Recommendation: Listen, question for understanding, determine next steps

			<u>Yea</u>	<u>Nay</u>
<input type="checkbox"/> A. Byrd	<input type="checkbox"/> A. Byrd	A. Byrd	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> J. Fletcher	<input type="checkbox"/> J. Fletcher	J. Fletcher	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> E. Pugh	<input type="checkbox"/> E. Pugh	E. Pugh	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> B. Swindell	<input type="checkbox"/> B. Swindell	B. Swindell	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> D. Tunnell	<input type="checkbox"/> D. Tunnell	D. Tunnell	<input type="checkbox"/>	<input type="checkbox"/>



**Proposal to Provide Engineering Services for
Initial Investigation for Solutions and Report to the Manager and Commissioners
for the
Public Safety Facility Building Renovation Project**

November 21, 2012

Introduction

Lamm Engineering Associates, PLLC appreciates this opportunity to present to the Hyde County Manager and the County Commissioners, hereafter referred to also as the 'Owner', a proposal for Engineering Services to provide a preliminary investigation into the air quality issues that have occurred at the Public Safety Facility and present these findings to the Manager and the Commissioners as well as propose solutions to the issues under investigation.

Project Summary

The Public Safety Facility was constructed about five years ago. The design is concrete block and brick with a 'flat' roof made of metal trusses and decking. Workers in the building have complained of respiratory problems. There has been some rainwater leakage from storms, and the employees feel there is a mold problem. There are approximately a dozen air handling units on the roof that the County employees suspect are part of the problem. The County wishes for LEA to do a preliminary investigation into these allegations, develop alternatives to solve the problems, and develop budgetary estimates of such alternatives.

Proposal

Lamm Engineering Associates, PLLC, hereafter referred to simply as the 'Engineer', is pleased to submit this proposal to the Owner to provide a fee for engineering services in the form of investigation, assessment of findings, developing alternative solutions, investigating and tallying projected costs for these alternatives, present findings on Thursday, November 29, 2012 to the County Manager, Finance Director and the Sheriff's Office, and then on Monday, December 3, 2012 to the County Commissioners at their meeting.

Additional Services

LEA is pleased to provide any additional services desired by the owner.

Scope of Services

The scope of services for this Project is summarized as follows.

- Receive existing building information from the County.
- Perform a visual site inspection of the building to assess the conditions, etc.
- Develop a plan to solve the issues outlined to us from the County.
- Investigate possible alternatives to resolve the issues.
- Perform value-engineering on alternatives to determine the best long-term solution.
- Perform a comparative cost analysis of options.
- Prepare presentation materials
- Perform a presentation to the Manager and the County Commissioners outlining this investigation.
- Incorporate commentary and corrections into a final report / presentation.
- Perform a presentation to the Manager, Commissioners, and Board.

Project Fees

The fee to provide design services as outlined in this proposal shall be a Lump Sum of **\$ 4,800.00**

Assumptions

The following assumptions are made in the preparation of this scope of services:

1. The scope of this assessment and report is preliminary and subject to further refinement as more information or decision making comes available.
2. Projected costs produced from the investigation are estimates for budgeting purposes only. A more accurate Projected Cost of Construction will be produced from the actual design phase based upon final plans and specifications.

Compensation

Compensation for this project shall be made on a lump sum basis as determined by the current scope of work. All services within this scope are provided at labor rates in accordance with Engineer's current standard billing rate schedule at the time the work is performed. Current hourly rates for all personnel, associated with this Agreement, are included in Attachment A.

When requested by Hyde County, the Engineer shall provide appropriate services for tasks requiring open-ended assignment for site items not included in the Proposal. The Engineer shall charge for the time required on an hourly basis according to the current hourly labor rate schedule in effect. The Hourly Rate schedule is shown as Attachment A to cover additional items outside the given scope.

Invoices and Payments

Payment for any invoice is due and payable upon receipt. If Owner fails to make payment due Engineer within 30 days of invoicing, then Engineer shall be entitled to interest in accordance with state law.

Ownership of Materials

Original documents, digital files, tracings, and the like, except those furnished to the Engineer by the Owner, are and shall remain the property of the Engineer as instruments of service. The Owner shall be furnished reproducible copies of all plans prepared under this agreement. The Owner shall be furnished duplicate copies of other materials upon request.

Force Majeure

Except as otherwise provided in any environmental laws, rules, regulations, or ordinances applicable to the parties and services performed under this contract, neither party shall be deemed to be in default of its obligations hereunder if and so long as it is prevented from performing such obligations by an act of war, hostile foreign action, nuclear explosion, earthquake, hurricane tornado or other catastrophic natural event or act of god. Either party to this contract must take reasonable measure and implement reasonable protections when a weather even otherwise defined as a force majeure event is forecast to be eligible to be excused from the performance otherwise required under this contract by this provision.

Termination

The obligation to provide further services under this Agreement may be terminated by either party upon thirty days' written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof, through no fault of the terminating party.

Incorporation of Documents

This contract and any documents incorporated below represent the entire contract between the parties and suspend all prior oral or written statements agreements or contract specific to this scope of services. Specifically incorporated into this contract are the following attachments or if not physically attached, are incorporated fully herein by reference:

Attachment 'A' – Standard Hourly Rates

In case of conflict between this contract and any of the above incorporated attachments or references, the terms of this contract shall prevail.

Acceptance of Proposal

Acceptance of this proposal creates a contract between the Owner and the Engineer to provide Engineering Services as outlined within the Scope of Services. The Engineer will serve the Owner as outlined, providing assistance as necessary to meet the Owner's needs during this phase of the project.

WITNESSETH

That for, and in consideration of the mutual covenants and promises between the parties hereto, it is hereby agreed:

ENGINEER:

Lamm Engineering Associates, PLLC

Signature *T. Andy Lamm*

Type Name T. Andy Lamm, PE

Title President

Date _____

OWNER:

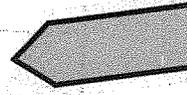
Organization Hyde County

Signature _____

Type-Name Mazie Swindell Smith

Title Hyde County Manager

Date _____



ATTACHMENT A

Lamm Engineering Associates, PLLC

Engineering Design Services

Principal	\$ 90.00 per hour
Project Manager	\$ 85.00 per hour
Project Engineer	\$ 70.00 per hour
Staff Engineer	\$ 60.00 per hour
Intern Engineer	\$ 50.00 per hour
Technical / Production Manager	\$ 60.00 per hour
Staff Designer	\$ 50.00 per hour
Cad Technician	\$ 45.00 per hour
Construction Administrator	\$ 40.00 per hour
Construction Inspector	\$ 35.00 per hour
Field Technician	\$ 18.00 per hour
Administrative Assistant	\$ 20.00 per hour

Current Rates as of 07/12. This information is provided for additional services only.



Since 1712

HYDE COUNTY

NORTH CAROLINA

Meeting Date: 12.03.12

Presenter(s): Mazie Smith

Title: County Manager

Agency/Dept.: Hyde County

Item Title: Proposal to Add Acreage to Pocosin Lakes National Wildlife Refuge

Attachments: Yes

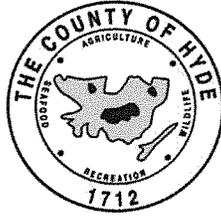
Description: Hyde County was provided a copy of a Draft Land Protection Plan and Draft Environmental Assessment for the proposed expansion of Pocosin Lakes National Wildlife Refuge in Hyde, Tyrrell and Washington counties. The County Manager, working with the managers of Tyrrell and Washington counties, asked the Tax Administrator to determine the number of acres and financial impact this expansion would have on our County, with Tyrrell and Washington counties doing the same. The Managers suggest the boards of the three counties oppose this expansion by means of a joint resolution. Said resolution, along with a letter to the Service outlining concerns, is due by December 14th in order to be included in the LPP/EA necessary for the refuge to proceed.

Times Read: First

Impact on Budget: Does not increase the budget.

Recommendation: Listen, question for understanding, resolve to oppose expansion

			<u>Yea</u>	<u>Nay</u>
_____	A. Byrd	_____	A. Byrd	_____
_____	J. Fletcher	_____	J. Fletcher	_____
_____	E. Pugh	_____	E. Pugh	_____
_____	B. Swindell	_____	B. Swindell	_____
_____	D. Tunnell	_____	D. Tunnell	_____



**HYDE COUNTY TAX OFFICE
P O BOX 279
SWAN QUARTER, NC 27885**

November 29, 2012

TO: Mazie Smith, County Manager

FROM: Linda Basnight, Tax Administrator

In reference to your request on November 28 for the value of property that is included in the proposed expansion area of the Pocosin Lake National Wildlife Refuge. I have run all parcel record cards based on the areas shown on the maps as "Proposed Minor Expansion Areas". Some of the tracts are not totally included in the proposed expansion areas. These tracts I have included **only** the property value for the area that would be included not total tract value. It appears that the total taxable value of the property that would be included in the expansion area and removed from Hyde County's tax base would be \$ 5,140,832.00, which would equal \$ 32,901.32 tax dollars based on the FY12/13 tax rate.

After I had finished this yesterday, Justin told me he had already given you a value figure which was approximately \$ 2,000,000.00 less than the total value I have come up with but that he did not include **any** value for the tracts that are split or the 2 tracts that have no map identifier number.

RECEIVED NOV 15 2012



United States Department of the Interior

FISH AND WILDLIFE SERVICE

1875 Century Boulevard
Atlanta, Georgia 30345

In Reply Refer To:
FWS/R4/RF/PL

NOV 8 2012

To: Recipients of the Draft Land Protection Plan and Draft Environmental Assessment for the Proposed Expansion of Pocosin Lakes National Wildlife Refuge

The Fish and Wildlife Service (Service) is pleased to provide you with a copy of the Draft Land Protection Plan and Draft Environmental Assessment (Draft LPP/EA) for the proposed expansion of Pocosin Lakes National Wildlife Refuge (NWR) in Hyde, Tyrrell, and Washington Counties, North Carolina. The Draft LPP/EA outlines the actions proposed by the Service to restore and protect pocosin habitat and the wildlife dependent on it, including threatened and endangered species, and to manage populations of migratory birds and other interjurisdictional trust species.

The Draft LPP/EA was developed by the Service in coordination with the State of North Carolina, other Federal agencies, and local agencies. In the Draft LPP/EA, three alternatives and their potential impacts on the environment are evaluated. The Service believes that Alternative 2, "Protection and Management of up to 10,917 Acres by the Fish and Wildlife Service," is a positive step in providing maximum benefits for hydrology and pocosin ecosystem restoration.

The Service welcomes any comments or recommendations that you may have concerning this proposal. In order to be considered in the preparation of the Final LPP/EA, your comments must be received no later than December 14, 2012. Additional copies of the Draft LPP/EA, comments, or requests for further information should be directed to Ms. Pam Wingrove, Natural Resource Planner, 100 Conservation Way, P.O. Box 1969, Manteo, North Carolina 27954. The Draft LPP/EA is also available on the Service's Internet site as follows:
<http://www.fws.gov/southeast/planning/> under "Land Acquisition Draft Documents."

Your interest and support for conserving the areas of the proposal are appreciated.

Sincerely yours,


for Cynthia K. Dohner
Regional Director

Enclosure





United States Department of the Interior

FISH AND WILDLIFE SERVICE

POCOSIN LAKES NATIONAL WILDLIFE REFUGE

P. O. Box 329, 205 South Ludington Drive
Columbia, North Carolina 27925
(252) 796-3004

RECEIVED NOV 13 2012

Dear Neighbor of Pocosin Lakes National Wildlife Refuge,

Pocosin Lakes National Wildlife Refuge is proposing a minor expansion of the Refuge's Acquisition Boundary. I wanted to personally inform you of the proposal and give you my contact information in case you have any questions about the project. I also encourage you to provide comments on the expansion document – it will be mailed to you next week. The title of the document is *Draft Land Protection Plan and Environmental Assessment for the Proposed Expansion of Pocosin Lakes National Wildlife Refuge*.

A Refuge Acquisition Boundary is a line on a map that identifies parcels of property in which the Fish and Wildlife Service would be interested in acquiring some type of real estate interest (conservation easement, fee title purchase, conservation agreement, or some other type of interest) to further the goals of the local refuge. Our policy is to buy property interests only from willing sellers, so there is no obligation for the owners of land within the boundary to sell their property. However, if a parcel of land is not in an approved Refuge Acquisition Boundary, we cannot acquire an interest in the property even if the owner is interested in selling that interest to us. In other words, the establishment or expansion of the acquisition boundary gives Service personnel approval to negotiate with landowners that may be interested or may become interested in selling their land in the future. If this proposal is approved, the Service can react more quickly as important lands become available.

Again, our long-established policy is to work with willing sellers only as funds become available. Lands or property interests in the lands within this boundary do not become part of the refuge unless their owners willingly sell or donate them to the Service and being within this boundary does not inhibit the owner from selling to any other interested party.

You may see a notice or information about this in the local papers. Copies of this proposal will be available at the local library, the Pocosin Lakes NWR office and the Coastal Wildlife Refuges office in Manteo for anyone who would like to read and comment on it. It is also available on-line at <http://www.fws.gov/pocosinlakes> and <http://www.fws.gov/southeast/planning/LADraftDocument.html>. The deadline for comments is December 14, 2012. We request comments be made in writing so we can ensure we capture them correctly. Please send comments to Pam Wingrove, Natural Resource Planner, North Carolina Coastal Refuge Complex, P.O. Box 1969, Manteo, NC 27954, or email them to pamala_wingrove@fws.gov. If you have questions about the proposal, please contact me at 252-796-3004.

Best regards,

Howard Phillips, Refuge Manager
Pocosin Lakes National Wildlife Refuge