

**CHESAPEAKE WATERSHED  
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT ONE TO  
COOPERATIVE and JOINT VENTURE AGREEMENT**

between

**U.S. DEPARTMENT OF THE INTERIOR  
Bureau of Land Management  
U.S. Fish and Wildlife Service  
U.S. Geological Survey  
National Park Service**

**U.S. DEPARTMENT OF DEFENSE  
Office of the Deputy Under Secretary of Defense  
(Installations and Environment)  
U.S. Army Corps of Engineers – Civil Works**

**U.S. DEPARTMENT OF AGRICULTURE  
U.S. Forest Service, Northern Research Station  
Natural Resources Conservation Service**

**U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration**

and

**THE UNIVERSITY SYSTEM OF MARYLAND (HOST)  
University of Maryland Center for Environmental Science  
University of Maryland, College Park  
University of Maryland, Baltimore County  
Frostburg State University**

**College of William and Mary  
George Mason University  
Pennsylvania State University  
University of the District of Columbia  
National Aquarium  
American Bird Conservancy  
James Madison University  
Delaware State University**

**University of Delaware  
The Academy of Natural Sciences  
Western Pennsylvania Conservancy  
American University  
Christopher Newport University  
Howard University  
Indiana University of Pennsylvania  
University of Mary Washington  
University of Virginia  
Anne Arundel Community College**

**Adding:**

**George Washington University  
Shippensburg University**

With the exception of the changes below, all terms and conditions of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement apply to this Amendment, and this Amendment is hereby made part of the Agreement.

#### **ARTICLE I. BACKGROUND AND OBJECTIVES**

I.3. The George Washington University and Shippensburg University are hereby included in the Chesapeake Watershed CESU as a Partner Institutions.

#### **ARTICLE III. TERM OF AGREEMENT**

A.1. The effective date of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement is 5 August 2011.

A.2. The effective date of this amendment to the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature.

#### **ARTICLE IV. KEY OFFICIALS**

C.22. The technical representative for George Washington University is:

Peg Barratt  
Dean, Columbian College of Arts and Sciences  
George Washington University

801 22nd Street NW, Suite 212  
Washington, DC 20052  
Phone: (202) 994-6130  
Fax: (202) 994-0854  
[barratt@gwu.edu](mailto:barratt@gwu.edu)

C.23. The technical representative for the Shippensburg University is:

Dr. Claire Jantz  
Associate Professor  
Department of Geography-Earth Science  
Shippensburg University  
1871 Old Main Drive  
Shippensburg, PA 17257  
Phone: (717) 477-1399  
Fax: (717) 477-4028  
[cajant@ship.edu](mailto:cajant@ship.edu)

#### **ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES**

The following authorizing signatures are attached:

##### U.S. DEPARTMENT OF THE INTERIOR

- A. Bureau of Land Management
- B. U.S. Fish and Wildlife Service
- C. U.S. Geological Survey
- D. National Park Service

##### U.S. DEPARTMENT OF DEFENSE

- E. Office of the Deputy Under Secretary of Defense (Installations and Environment)
- F. U.S. Army Corps of Engineers – Civil Works

##### U.S. DEPARTMENT OF AGRICULTURE

- G. U.S. Forest Service
- H. Natural Resources Conservation Service

##### U.S. DEPARTMENT OF COMMERCE

- I. National Oceanic and Atmospheric Administration

##### J. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)

- K. University of Maryland, College Park
- L. University of Maryland, Baltimore County
- M. Frostburg State University
- N. College of William and Mary
- O. George Mason University

- P. Pennsylvania State University
- Q. University of the District of Columbia
- R. National Aquarium
- S. American Bird Conservancy
- T. James Madison University
- U. Delaware State University
- V. University of Delaware
- W. The Academy of Natural Sciences
- X. Western Pennsylvania Conservancy
- Y. American University
- Z. Christopher Newport University
- AA. Howard University
- BB. Indiana University of Pennsylvania
- CC. University of Mary Washington
- DD. University of Virginia
- EE. Anne Arundel Community College
- FF. **George Washington University**
- GG. **Shippensburg University**

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

A. Bureau of Land Management

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

\_\_\_\_\_  
Dr. John G. Lyon  
Director, Eastern States

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lisa T. Clayton  
Grants Management Officer

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

B. U.S. Fish and Wildlife Service

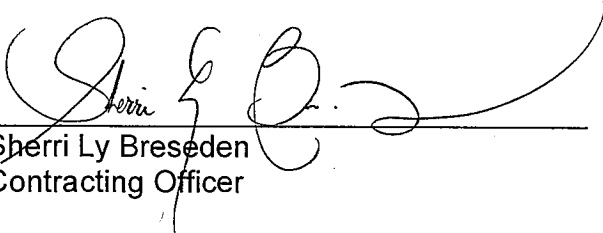
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

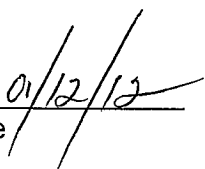
\_\_\_\_\_  
Paul Phifer  
Assistant Regional Director  
Ecological Services, Region 5

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

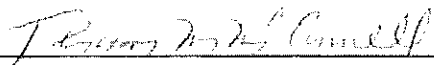
C. U.S. Geological Survey

  
\_\_\_\_\_  
Sherri Ly Breseden  
Contracting Officer

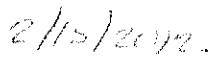
  
\_\_\_\_\_  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

D. National Park Service

  
\_\_\_\_\_

Thomas M. McConnell  
National Capital Region  
Contracting/Agreements Officer

  
\_\_\_\_\_

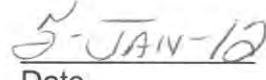
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

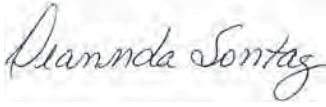
E. Office of the Deputy Under Secretary of Defense (Installations and Environment)

  
\_\_\_\_\_  
Leslie E. Guy  
Grants Officer Representing ODUSD (I&E)

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

F. U.S. Army Corps of Engineers – Civil Works



Digitally signed by  
SONTAG.DEANNDAS.1230791909  
DN: c=US, o=U.S. Government, ou=DoD,  
ou=PKI, ou=USA,  
cn=SONTAG.DEANNDAS.1230791909  
Date: 2012.01.03 13:41:00 -06'00'

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Deanna Sontag  
Grants Officer

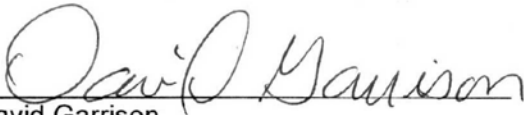
3 Jan 2012

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Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

G. U.S. Forest Service

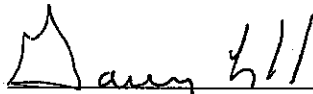


David Garrison  
Grants Management Specialist  
USDA Forest Service  
Northern Research Station

1/03/12  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

H. Natural Resources Conservation Service

  
\_\_\_\_\_  
GARRY LEE  
Acting Deputy Chief for Management

1.19.12  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

I. National Oceanic and Atmospheric Administration

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

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Frank Almeida  
Acting NEPSC Director

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Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. The University System of Maryland

WE Kirwan

William E. Kirwan  
Chancellor

1/03/12  
Date

J.1 University of Maryland Center for Environmental Sciences

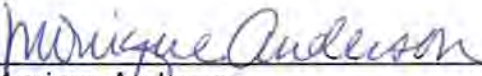
Ruth Tallman

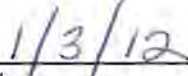
Ruth Tallman  
Director, Office of Research Administration & Advancement

1/4/12  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

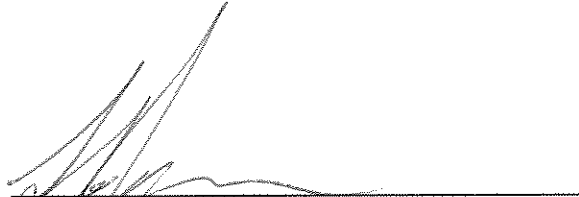
K. University of Maryland, College Park

  
\_\_\_\_\_  
Monique Anderson  
Assistant Director, Research Administration

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

L. University of Maryland, Baltimore County



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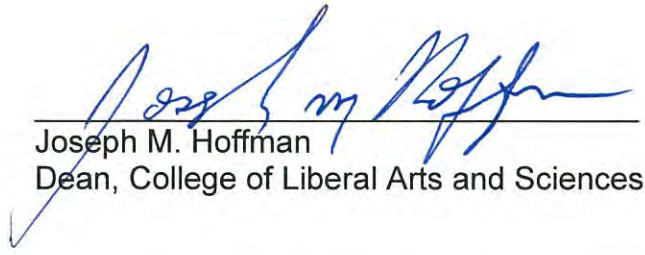
Stan Jackson, CRA  
Grants and Contracts Manager

2/6/2012  
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

M. Frostburg State University

  
\_\_\_\_\_  
Joseph M. Hoffman  
Dean, College of Liberal Arts and Sciences

2/10/12  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

N. College of William and Mary

Randy Chambers

Digitally signed by Randy Chambers  
DN: cn=Randy Chambers, o=College of  
William and Mary, ou=Keck Environmental  
Lab, email=rmcham@wm.edu, c=US  
Date: 2012.02.02 14:20:51 -05'00'

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Randolf M. Chambers  
Director, Keck Environmental Lab

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Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

O. George Mason University

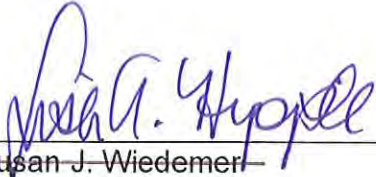


\_\_\_\_\_  
Michael Laskofski  
Associate Vice President  
of Research Operations

7/3/12  
\_\_\_\_\_  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

P. Pennsylvania State University



~~Susan J. Wiedemer~~  
~~Assistant Treasurer~~

1/5/12  
Date

Lisa A. Hipple  
Assoc. Director of Sponsored Programs

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

Q. University of the District of Columbia

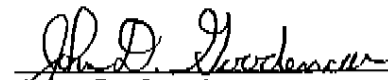
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

\_\_\_\_\_  
Graeme Baxter  
Provost and Vice President for Academic Affairs (Interim)

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

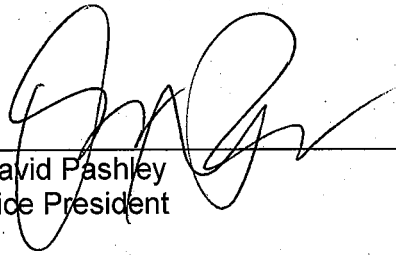
R. National Aquarium

  
\_\_\_\_\_  
John D. Goodenow  
Senior Director of Development

1-3-12  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

S. American Bird Conservancy



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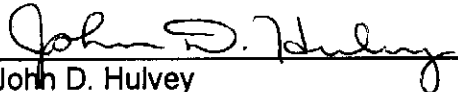
David Pashley  
Vice President

Feb. 2, 2012  
Date

agreements@cew.org

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

T. James Madison University


  
\_\_\_\_\_  
John D. Hulvey  
Director, Sponsored Programs  
Administration and Accounting

1/3/2012  
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

U. Delaware State University



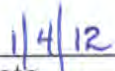
Harry Lee Williams  
President

1/4/12  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

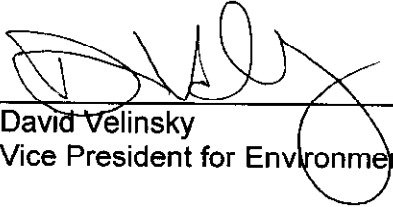
V. University of Delaware

  
\_\_\_\_\_  
Katherine M. Lyons  
Contract and Grant Specialist

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

W. The Academy of Natural Sciences

  
\_\_\_\_\_  
David Velinsky  
Vice President for Environmental Science

1/3/12  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

X. Western Pennsylvania Conservancy

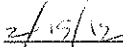
  
\_\_\_\_\_  
Shaheen Fenlon  
Vice President

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**


Y. American University

  
\_\_\_\_\_  
Scott A. Bass  
Provost

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

Z. Christopher Newport University

  
\_\_\_\_\_  
Mark Padilla  
Provost

  
Date ~~1/4/2011~~ 2012 

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

AA. Howard University

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

\_\_\_\_\_  
Dr. James H. Wyche  
Provost and Chief Academic Officer

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

BB. Indiana University of Pennsylvania



\_\_\_\_\_  
Timothy P. Mack  
Dean of the School of Graduate Studies and Research

JAN 5, 2012  
Date



ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

CC. University of Mary Washington

A handwritten signature in black ink, appearing to read "Richard R. Pearce", written over a horizontal line.

Richard R. Pearce  
Acting Vice President for Administration and Finance

1/10/12  
Date

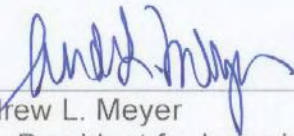
**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

DD. University of Virginia

  
Gerald J. Kane, Jr. Robert Merhige 1-23-12  
Director of Grants and Contracts, Office of Sponsored Programs Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

EE. Anne Arundel Community College

  
\_\_\_\_\_  
Andrew L. Meyer  
Vice President for Learning

1/4/12  
\_\_\_\_\_  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

FF. George Washington University



Leo M. Chalupa, Vice President for Research

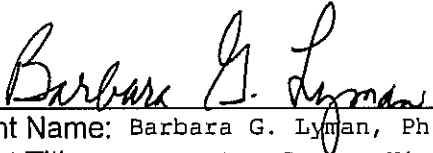
Print Name:

Print Title:

12/20/2011  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

GG. Shippensburg University

  
\_\_\_\_\_  
Print Name: Barbara G. Lyman, Ph.D.  
Print Title: Provost & Senior Vice President  
for Academic Affairs

12-6-11  
Date