

**CHESAPEAKE WATERSHED  
COOPERATIVE ECOSYSTEM STUDIES UNIT**

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

**between**

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

**DEPARTMENT OF DEFENSE  
Office of the Deputy Under Secretary of Defense  
(Installations and Environment)**

**DEPARTMENT OF AGRICULTURE  
U.S. Forest Service  
Natural Resources Conservation Service**

**and**

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

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

**Adding**

**DEPARTMENT OF THE ARMY  
US Army Corps of Engineers – Civil Works**

**University of Delaware  
The Academy of Natural Sciences**

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

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

A.1. The US Army Corps of Engineers-Civil Works (USACE-CW) is included in the Chesapeake Watershed CESU as a Federal Agency Partner under agreement number W912HZ-08-2-0008 for a cumulative amount not-to-exceed \$25,000,000.00.

I. The US Army Corp of Engineers – Civil Works (hereinafter called USACE-CW) provides assistance in the development and management in the nation's water resources. The main missions of USACE-CW, i.e., the Corps, are 1) to facilitate commercial navigation, 2) to protect citizens and their property from flood and storm damages, and 3) to protect and restore environmental resources. The Corps carries out most of its work in partnership with Tribal, state and local governments and other non-federal entities. The Corps must rely upon using the best available science in the evaluation of water resources needs and in the development of recommendations for water resource management. The university and scientific advances will assist the Corps in reaching sound, scientifically based decisions. In accordance with 10 U.S.C. 2358, USACE-CW is authorized to enter into the cooperative agreement with the Chesapeake Watershed CESU enabling the USACE-CW to receive direct scientific support from regional CESU members. USACE-CW is authorized to cooperate with other agencies in accordance with Title 33 U.S.C. 2323a and 10 U.S.C. 3036(d).

K.1. The University of Delaware and the Academy of Natural Sciences (Philadelphia) are included in the Chesapeake Watershed CESU as Partner Institutions.

#### **ARTICLE II. STATEMENT OF WORK**

D.6.a. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

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

A.1. The effective date of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement is 6 August 2001.

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**

A.7. The technical representatives for the Department of the Army, US Army Corps of Engineers-Civil Works are:

Dr. Alfred F. Cofrancesco  
Technical Director, Civil Works, Environmental Engineering & Science  
Department of the Army  
Engineering Research and Development Center  
Corps of Engineers  
Environmental Laboratory  
Waterways Experiment Station, 3909 Halls Ferry Road  
Vicksburg, MS 39180-6199  
Phone: 601-634-3182  
Fax: 601-634-3664  
[Al.F.Cofrancesco@erdc.usace.army.mil](mailto:Al.F.Cofrancesco@erdc.usace.army.mil)

Administrative Representatives:

Amanda Irwin Campbell  
Contract Specialist  
ERDC Contracting Office (ECO)  
4155 Clay Street  
Vicksburg, MS 39183  
Phone: 601-631-5351  
Fax: 601-631-7263  
[Amanda.D.Irwin@usace.army.mil](mailto:Amanda.D.Irwin@usace.army.mil)

Michael G. Lee  
Grants Officer  
ERDC Contracting Office (ECO)  
4155 Clay Street  
Vicksburg, MS 39183  
Phone: 601-631-7254  
Fax: 601-631-7263  
[mike.g.lee@mvk02.usace.army.mil](mailto:mike.g.lee@mvk02.usace.army.mil)

C.9. The technical representatives for the University of Delaware are:

Technical Representatives:

Dr. Daniel K. Cha  
Department of Civil and Environmental Engineering  
346A DuPont Hall  
University of Delaware  
Newark, DE 19716  
Phone: 302-831-2435  
Fax: 302-831-3640

Email: [cha@ce.udel.edu](mailto:cha@ce.udel.edu)

Dr. William F. Ritter  
Department of Bioresources Engineering  
University of Delaware  
Newark, DE 19716  
Phone: 302-831-2468  
Fax: 302-831-2469  
Email: [writter@udel.edu](mailto:writter@udel.edu)

Administrative Representative:

Geraldine E. Hobbs  
Contract and Grant Administrator  
Office of the Vice Provost for Research and Graduate Studies  
210 HULLIHEN HALL  
University of Delaware  
Newark, DE 19716-1551  
Phone: (302) 831-8618  
Fax: (302) 831-2828  
Email: [geh@udel.edu](mailto:geh@udel.edu)

C.10. The technical representative for the Academy of Natural Sciences is:

Dr. David Velinsky  
Vice President and Director, Patrick Center for Environmental Research  
The Academy of Natural Sciences  
1900 Benjamin Franklin Pkwy.  
Philadelphia PA 19103-1195  
Phone: 215-299-1147  
Fax: 215-299-1079  
Email: [velinsky@ansp.org](mailto:velinsky@ansp.org)

#### **ARTICLE V. AWARD**

A.1. Upon signature of all parties to this amendment, Department of the Army, US Army Corps of Engineers-Civil Works will commit \$10,000 in funds to the Host University in furtherance of the agreement, to be authorized by a modification issued against the agreement.

A.2. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

## **ARTICLE VI. PRIOR APPROVAL**

A.1. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

## **ARTICLE VII. REPORTS AND DELIVERABLES**

A.1. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

## **ARTICLE VIII. PROPERTY UTILIZATION AND DISPOSITION**

A.1. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

## **ARTICLE IX. TERMINATION**

A.1. Also, in accordance with 22 CFR Part 518 (Department of Defense), 10 U.S.C. 2358, 33 U.S.C. 2323a, 10 U.S.C. 3036(d), and DoD 3210.6-R, Department of Defense Grant and Agreement Regulations (US Army Corps of Engineers-Civil Works).

## **ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES**

The following authorizing signatures are attached to this amendment:

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

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

### **DEPARTMENT OF DEFENSE**

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

### **DEPARTMENT OF AGRICULTURE**

- E. U.S. Forest Service
- F. Natural Resources Conservation Service

### **U.S. DEPARTMENT OF THE ARMY**

#### **G. US Army Corps of Engineers-Civil Works**

### **H. THE UNIVERSITY SYSTEM OF MARYLAND**

- 1. University of Maryland Center for Environmental Science
- 2. University of Maryland, College Park

3. Frostburg State University
4. University of Maryland, Baltimore County

- I. College of William and Mary
- J. George Mason University
- K. Pennsylvania State University
- L. University of the District of Columbia
- M. National Aquarium in Baltimore
- N. American Bird Conservancy
- O. James Madison University
- P. Delaware State University
- Q. University of Delaware
- R. The Academy of Natural Sciences

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

A. Bureau of Land Management

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

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

B. U.S. Geological Survey

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

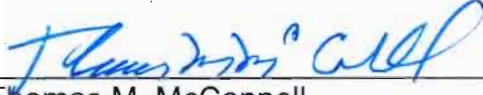


ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)

C. National Park Service

  
\_\_\_\_\_  
Joseph M. Lawler  
Regional Director  
National Capital Region

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Thomas M. McConnell  
Contracting Officer  
National Capital Region

  
\_\_\_\_\_  
Date

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

**D. DEPARTMENT OF DEFENSE**

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

\_\_\_\_\_  
[Print Name]:

[Print Title]:

\_\_\_\_\_  
Date

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

E. USDA Forest Service  
Northern Research Station

*David Garrison*

David Garrison

Grants & Agreements Specialist

[Print Name]:  
[Print Title]:

5/08/08  
Date

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

F. Natural Resources Conservation Service

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

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

G. US Army Corps of Engineers-Civil Works

*Michael D. Lee*

\_\_\_\_\_

[Print Name]:

[Print Title]:

*20 FEBRUARY 2008*

Date \_\_\_\_\_

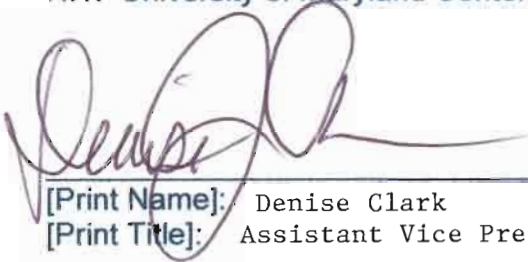
**ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

H. The University System of Maryland

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.1. University of Maryland Center for Environmental Science

  
\_\_\_\_\_  
[Print Name]: Denise Clark  
[Print Title]: Assistant Vice President, ORAA

  
\_\_\_\_\_  
Date

H.2. University of Maryland, College Park

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.3. Frostburg State University

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.4. University of Maryland, Baltimore County

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

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

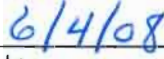
H. The University System of Maryland

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.1. University of Maryland Center for Environmental Science

  
\_\_\_\_\_  
[Print Name]: Erica Kropp, Director, ORAA  
[Print Title]:

  
\_\_\_\_\_  
Date

H.2. University of Maryland, College Park

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.3. Frostburg State University

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.4. University of Maryland, Baltimore County

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

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


H. The University System of Maryland

\_\_\_\_\_  
[Print Name]: \_\_\_\_\_ Date \_\_\_\_\_  
[Print Title]: \_\_\_\_\_

H.1. University of Maryland Center for Environmental Science

\_\_\_\_\_  
[Print Name]: \_\_\_\_\_ Date \_\_\_\_\_  
[Print Title]: \_\_\_\_\_

H.2. University of Maryland, College Park

  
\_\_\_\_\_  
[Print Name]: *FRANK K. Ammer* Date *5/15/08*  
[Print Title]: *Technical Representative*

H.3. Frostburg State University

\_\_\_\_\_  
[Print Name]: \_\_\_\_\_ Date \_\_\_\_\_  
[Print Title]: \_\_\_\_\_

H.4. University of Maryland, Baltimore County

\_\_\_\_\_  
[Print Name]: \_\_\_\_\_ Date \_\_\_\_\_  
[Print Title]: \_\_\_\_\_



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

H. The University System of Maryland

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.1. University of Maryland Center for Environmental Science

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.2. University of Maryland, College Park

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.3. Frostburg State University

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

H.4. University of Maryland, Baltimore County




\_\_\_\_\_  
[Print Name]: Andrew J. Miller  
[Print Title]: Associate Professor

5/21/2008  
\_\_\_\_\_  
Date

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


I. College of William and Mary

  
[Print Name]: RANDOLPH M. CHAMBERS  
[Print Title]: DIRECTOR, KECK ENV. LAB  
CESU REP, COLLEGE OF WM & MARY

5-1-08  
Date

ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. George Mason University




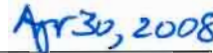
[Print Name]: Michael Laskofski  
[Print Title]: Director  
Office of Sponsored Programs

6/9/08  
Date

ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)

K. Pennsylvania State University

  
\_\_\_\_\_  
[Print Name]: Brian A. Dempsey  
[Print Title]: Associate Director, Penn State  
Institutes of Energy & The Environment

  
\_\_\_\_\_  
Date

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

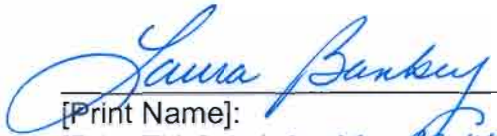
L. University of the District of Columbia

\_\_\_\_\_  
[Print Name]:  
[Print Title]:

\_\_\_\_\_  
Date

ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)

M. National Aquarium in Baltimore

  
\_\_\_\_\_  
[Print Name]:  
[Print Title]: LAURA BANKEY  
MANAGER OF CONSERVATION

  
\_\_\_\_\_  
Date

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

N. American Bird Conservancy

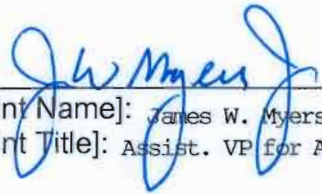


[Print Name]: DAVID PASHLEY  
[Print Title]: VICE PRESIDENT FOR  
CONSERVATION PROGRAM

5 June 2008  
Date

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

O. James Madison University


  
\_\_\_\_\_  
[Print Name]: James W. Myers, Jr.  
[Print Title]: Assist. VP for Academic Resources

\_\_\_\_\_  
May 5, 2008  
Date



ARTICLE XII. AMENDMENT AUTHORIZING SIGNATURES (cont.)

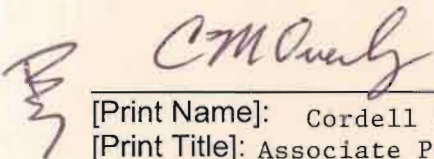
P. Delaware State University

  
\_\_\_\_\_  
[Print Name]: Allen Lee Sessions  
[Print Title]: President

  
\_\_\_\_\_  
Date

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

Q. University of Delaware

  
\_\_\_\_\_

[Print Name]: Cordell Overby  
[Print Title]: Associate Provost for Research

4/24/08  
Date

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

R. The Academy of Natural Sciences



---

William Y. Brown  
President & CEO

03/24/08

---

Date