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Section 1.0

Overview

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Section 1.0: Introduction

Section 1.1: Overview

This document provides a consolidated overall budget for the Everglades Ecosystem restoration efforts in south Florida with information provided by both federal and non-federal agencies. It is compiled and prepared by the Department of the Interior's Office of Everglades Restoration Initiatives (OERI) on an annual basis and includes a summary accounting of all funds in the Fiscal Year (FY) 2018 Budget Requests for participating Federal and State agencies. It also includes a summary of all funds expended on Everglades restoration efforts since FY 2002. Expended restoration funding information for FY 2000 and FY 2001 is also available on our website: www.evergladesrestoration.gov.

The information in this document is reported annually to OERI by the members of the South Florida Ecosystem Restoration Task Force (Task Force) and Working Group. The document consists of three sections. Section 1.0 provides an overview and includes summary tables for the federal and state budget requests.

Section 2.0 provides detailed information concerning the federal Everglades Ecosystem restoration projects and funding. Section 2.1 addresses the Comprehensive Everglades Restoration Plan (CERP) projects and funding and Section 2.2 addresses non-CERP projects and funding. The base program and operational funding requests not specifically designated for restoration for some federal agencies are not included in the document.

Section 3.0 provides the detailed information concerning State of Florida Everglades Ecosystem restoration projects and funding. Section 3.1 addresses CERP projects and funding, and Section 3.2 addresses non-CERP projects and funding. The Fiscal Year (FY) 2017/2018 totals shown represent estimates for the South Florida Water Management District (SFWMD). The FY 2017/2018 actual budget totals for the SFWMD will be posted on the Task Force website: www.evergladesrestoration.gov when the final budget is approved by their Governing Board.

Section 1.2: Federal and State of Florida Funding Summary Tables

The following tables provide a summary of the detailed funding information found in sections 2.0 and 3.0 of this document. Table 1 includes budget information provided by federal members and Table 2 includes budget information provided by the State of Florida members.

The funding for the federal agencies and the SFWMD reflects a fiscal year that begins on October 1 and ends on September 30 of each year. The funding for other state agencies reflects a fiscal year that starts on July 1 and ends on June 30 of each year.

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TABLE 1: FEDERAL FUNDING SUMMARY (ACTUAL \$)

EVERGLADES ECOSYSTEM RESTORATION PROJECTS	FY 2001 Enacted	FY 2002 Enacted	FY 2003 Enacted	FY 2004 Enacted	FY 2005 Enacted	FY 2006 Enacted	FY 2007 Enacted	FY 2008 Enacted	FY 2009 Enacted	FY 2010 Enacted	FY 2011 Enacted	FY 2012 Enacted	FY 2013 Enacted	FY 2014 Enacted	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Requested
COMPREHENSIVE EVERGLADES RESTORATION PROGRAM (CERP)																		
USACE - CERP (Part of Central and Southern Florida) ^{1,3,4,12,13}	21,747,000	27,961,000	37,062,000	39,063,000	64,446,000	62,610,000 ²	64,000,000	64,000,000	83,640,000	119,966,000	117,525,000	57,886,000	75,902,240	35,217,178	61,001,000	71,924,612	78,435,000	75,300,000
USACE - CERP (American Recovery and Reinvestment Act of 2009)	0	0	0	0	0	0	0	0	1,100,000	86,796,000	0	0	0	0	0	0	0	0
USACE - CERP O&M ^{1,15}	0	0	0	0	0	0	0	0	0	0	0	330,000	309,744	425,000	1,538,000	1,826,635	0	0
USDOJ - NPS CERP ¹⁰	2,497,000	5,544,000	5,513,000	5,463,000	5,213,000	5,174,000	5,216,000	5,132,000	5,108,000	5,198,000	5,150,000	5,101,000	4,854,000	5,130,000	5,162,000	5,216,000	5,236,000	4,931,000
USDOJ - FWS CERP	651,000	3,351,000	3,329,000	3,309,000	3,304,000	3,269,000	2,595,000	3,251,000	3,251,000	3,251,000	3,251,000	3,246,000	3,029,000	3,246,000	2,746,000	2,718,000	2,718,000	2,631,000
NON-COMPREHENSIVE EVERGLADES RESTORATION PROGRAM (CERP)																		
USACE - Central and Southern Florida (excluding CERP) ^{1,3,4}	56,182,000	64,949,000	49,983,000	64,906,000	8,029,000	9,126,000	6,447,000	14,505,000	9,075,000	10,600,000	34,805,000	35,986,000	12,800,000	8,800,000	7,550,000	23,071,529	11,787,000	0
USACE - Non-CERP O&M ¹⁵	0	0	0	0	0	0	0	590,000	731,000	1,278,000	1,075,000	4,842,000	6,995,527	6,844,555	4,039,000	6,741,392	5,703,010	0
USACE - Non-CERP American Recovery and Reinvestment Act of 2009	0	0	0	0	0	0	0	0	0	7,516,000	0	0	0	0	0	0	0	0
USACE - Critical Projects ^{3,4}	20,485,000	19,876,000	19,526,000	14,760,000	25,813,000	11,880,000	8,289,000	8,156,000	3,472,000	2,725,000	5,170,000	3,000,000	0	0	0	0	0	0
USACE - Kissimmee River Restoration ^{3,4}	19,961,000	25,846,000	23,727,000	17,616,000	17,871,000	13,042,000	50,264,000	30,968,000	28,361,000	44,673,000	6,986,000	45,614,000	0	0	0	31,411,789	36,065,000	1,200,000
USACE - Biscayne Bay ³	543,000	240,000	200,000	0	74,000	0	0	0	239,000	0	0	0	0	0	0	0	0	0
USACE - Modified Water Deliveries ⁴	0	0	0	0	0	34,650,000	35,000,000	9,840,000	0	0	0	0	0	0	0	0	0	0
USDA - ARS	4,193,000	4,846,900	5,216,800	5,415,100	6,101,000	4,908,600	4,941,000	4,754,500	4,764,700	4,865,000	4,797,600	4,660,300	3,443,300	2,989,000	2,989,000	2,989,000	2,989,000	2,989,000
USDA - NRCS	5,297,000	37,752,000	21,376,000	23,580,000	62,539,337 ⁵	61,505,271 ⁵	5,143,335	13,240,175	61,017,879	154,409,000	111,522,600	83,463,776	65,438,569	15,463,985	29,785,906	21,857,180	45,017,889	TBD ¹⁴
US Department of Commerce - NOAA	4,264,000	4,065,000	4,065,000	4,359,000	4,389,000	3,000,000	3,000,000	3,000,000	3,000,000	1,910,000	1,648,778	724,716	418,000	307,242	357,242	1,190,593	1,408,193	1,160,000
USDOJ - NPS Park Management	23,389,000	23,635,000	23,874,000	23,991,000	25,266,000	25,832,000	26,377,000	28,481,000	29,852,000	31,400,000	30,110,000	29,611,000	27,827,000	29,314,000	29,624,000	30,055,000	30,181,000	28,341,000
USDOJ - South Florida Ecosystem Restoration Task Force	1,316,000	1,325,000	1,320,000	1,308,000	1,290,000	1,286,000	1,307,000	1,303,000	1,303,000	1,320,000	1,317,000	1,303,000	1,234,000	1,311,000	1,316,000	1,325,000	1,330,000	1,241,000
USDOJ-NPS Park Management Transfer ⁹	0	0	0	9,924,000	702,000	0	0	0	0	0	0	0	0	0	0	0	0	0
USDOJ - NPS Everglades Research (Critical Ecosystem Studies Initiative)	6,194,000	4,000,000	3,974,000	3,937,000	3,882,000	3,840,000	3,864,000	3,849,000	3,849,000	3,873,000	3,865,000	3,822,000	3,620,000	3,845,000	3,855,000	3,870,000	3,876,000	3,618,000

EVERGLADES ECOSYSTEM RESTORATION PROJECTS	FY 2001 Enacted	FY 2002 Enacted	FY 2003 Enacted	FY 2004 Enacted	FY 2005 Enacted	FY 2006 Enacted	FY 2007 Enacted	FY 2008 Enacted	FY 2009 Enacted	FY 2010 Enacted	FY 2011 Enacted	FY 2012 Enacted	FY 2013 Enacted	FY 2014 Enacted	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Requested
USDOJ - NPS Modified Water Deliveries	8,980,000	19,199,000 ⁶	9,935,000	12,830,000	7,965,000	24,962,000 ⁷	12,981,000	14,299,000	60,000,000	8,400,000	8,000,000	7,987,000	8,000,000	0	0	0	0	0
USDOJ - NPS Big Cypress Sustainable Trail System	0	0	0	0	0	0	0	0	0	0	3,552,000	2,669,000	0	0	0	0	0	0
USDOJ - NPS Tamiami Trail Bridging	0	0	0	0	0	0	0	0	0	0	0	0	0	7,500,000	0	0	0	0
USDOJ - NPS American Recovery and Reinvestment Act of 2009	0	0	0	0	0	0	0	0	15,873,000	0	0	0	0	0	0	0	0	0
USDOJ - NPS Federal Land Acquisition Projects	0	16,000,000	0	0	0	0	0	0	0	0	0	30,511,000	0	0	0	0	0	0
USDOJ - NPS Land Acquisition (management)	2,075,000	2,800,000	2,782,000	1,800,000	1,500,000	690,000	500,000	750,000	730,000	775,000	775,000	634,000	685,000	665,000	668,000	636,000	636,000	636,000
USDOJ - NPS Land Acquisition Grants to Florida	11,974,000	15,000,000	14,924,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
USDOJ- Transfer of NPS Federal Land Acquisition	0	0	0	0	0	(17,000,000) ⁷	0	0	0	0	0	0	0	0	0	0	0	0
USDOJ- Transfer of NPS Land Acquisition Grants to the State of Florida	0	0	0	(14,924,000)	(702,000)	0	0	0	0	0	0	0	0	0	0	0	0	0
USDOJ - FWS Ecological Services	2,554,000	2,554,000	2,537,000	2,523,000	2,518,000	2,516,000	2,521,000	2,475,000	2,475,000	2,475,000	2,475,000	2,913,000	2,718,000	2,718,000	2,700,000	3,246,000	3,246,000	3,110,000
USDOJ - FWS Refuges and Wildlife	3,706,000	3,706,000	3,682,000	9,784,000	4,109,000	4,086,000	4,086,000	4,022,000	4,022,000	4,022,000	4,022,000	4,016,000	3,747,000	4,016,000	4,271,000	4,771,000	4,771,000	4,524,000
USDOJ - FWS Migratory Birds	0	0	0	0	102,000	101,000	101,000	99,000	99,000	99,000	99,000	99,000	92,000	92,000	92,000	92,000	92,000	87,000
USDOJ - FWS Law Enforcement	636,000	636,000	632,000	628,000	619,000	619,000	619,000	609,000	609,000	609,000	609,000	608,000	568,000	608,000	568,000	568,000	568,000	567,000
USDOJ - FWS Fisheries	100,000	100,000	99,000	98,000	95,000	95,000	95,000	92,000	92,000	92,000	92,000	92,000	86,000	92,000	92,000	92,000	92,000	87,000
USDOJ - FWS American Recovery and Reinvestment Act of 2009	0	0	0	0	0	0	0	0	2,173,000	0	0	0	0	0	0	0	0	0
USDOJ - FWS Land Acquisition ¹¹	10,975,000	8,500,000	2,500,000	0	1,441,000	0	0	1,028,000	0	0	0	1,500,000	3,000,000	5,000,000	3,000,000	4,591,000	2,500,000	0
USDOJ - USGS - Integrated Research, Planning and Interagency Coordination	8,553,000	8,636,000	7,847,000	7,847,000	7,738,000	7,771,000	6,900,000	6,800,000	6,907,000	6,907,000	6,893,000	6,882,000	6,525,000	6,525,000	7,313,000	7,928,000	7,778,000	2,853,000
USDOJ - BIA ¹⁶	396,000	396,000	393,000	539,000	536,000	382,000	382,000	390,000	390,000	390,000	390,000	390,000	370,000	390,000	390,000	743,000	580,000	380,000
US EPA	4,582,000	4,666,800	3,352,100	3,139,600	2,882,300	3,439,400	3,683,000	2,009,000	2,161,000	2,168,000	1,653,000	2,058,000	1,646,000	1,356,000	1,418,000	1,069,000	1,490,000	0

TABLE 2: FEDERAL FUNDING SUMMARY (ACTUAL \$)

	FY 2001 Enacted	FY 2002 Enacted	FY 2003 Enacted	FY 2004 Enacted	FY 2005 Enacted	FY 2006 Enacted	FY 2007 Enacted	FY 2008 Enacted	FY 2009 Enacted	FY 2010 Enacted	FY 2011 Enacted	FY 2012 Enacted	FY 2013 Enacted	FY 2014 Enacted	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Enacted	FY 2018 Requested
CERP Total (USACE and USDOJ)	24,895,000	36,856,000	45,904,000	47,835,000	72,963,000	71,053,000	71,811,000	72,383,000	93,099,000	215,211,000	125,926,000	66,563,000	84,094,984	44,018,178	70,447,000	81,685,247	86,389,000	82,862,000
Non-CERP Subtotal (USACE and USDOJ)	178,019,000	217,398,000	167,935,000	157,567,000	108,848,000	123,878,000	159,733,000	128,256,000	170,252,000	127,154,000	110,235,000	182,479,000	78,267,527	77,720,555	65,478,000	119,141,710	109,215,010	46,644,000
Non-CERP Subtotal (Other Federal Agencies)	18,336,000	51,330,700	34,009,900	36,493,700	75,911,637	72,853,271	16,767,335	23,003,675	70,943,579	163,352,000	119,621,978	90,906,792	70,945,869	20,116,227	34,280,148	27,105,773	50,905,082	4,149,000
Non-CERP Total (All Federal Agencies)	196,355,000	268,728,700	201,944,900	194,060,700	184,759,637	196,731,271	176,500,335	151,259,675	241,195,579	290,506,000	229,856,978	273,375,792	149,213,396	97,836,782	99,758,148	146,247,483	160,120,092	50,793,000
TOTAL CERP AND NON-CERP (USACE AND USDOJ)	202,914,000	254,254,000	213,839,000	205,402,000	181,811,000	194,931,000	231,544,000	200,639,000	263,351,000	342,365,000	236,161,000	249,042,000	162,362,511	121,738,733	135,925,000	200,826,957	195,604,010	129,506,000
TOTAL CERP AND NON-CERP (ALL FEDERAL AGENCIES)	221,250,000	305,584,700	247,848,900	241,895,700	257,722,637	267,784,271	248,311,335	223,642,675	334,294,579	505,717,000	355,782,978	339,948,792	233,308,380	141,854,960	170,205,148	227,932,730	246,509,092	133,655,000

Note: Base program and operational funding requests for the U.S. Environmental Protection Agency, U.S. Department of Commerce, U.S. Department of Agriculture, and the U.S. Army Corps of Engineers are not included in the information provided within this Cross-Cut Budget Working Document.

Footnotes:

¹ USACE CERP activities are part of the Central and Southern Florida Project (C&SF), but are presented separately from other C&SF activities.

² USACE FY 2006 Enacted reflects reductions for rescission and congressionally directed funding for the C&SF Upper St. Johns River project.

³ Enacted numbers for USACE reflect reductions for any rescissions, but do not account for reductions due to savings and slippage. FY 2013 numbers reflect approved work allowances.

⁴ Beginning with the FY 2006 Budget Request these projects are now included as part of one Corps of Engineers line item referred to as the "South Florida Everglades Ecosystem Restoration" Program.

⁵ Enacted numbers for FY 2005 and FY 2006 reflect additional Emergency Watershed Protection Program funding due to hurricanes.

⁶ Modified Water Deliveries project funding for this year was \$35,199,000, reflecting \$19,199,000 for construction and \$16,000,000 for land acquisition.

⁷ Includes the transfer of \$17 million in unobligated balances from the USDOJ- NPS Federal Land Acquisition to NPS Construction to further the Modified Water Deliveries project.

⁸ In 2004 \$5,000,000 in prior year balances from this line was transferred to the USDOJ - FWS Resource Management Account, and \$9,924,000 to the USDOJ - NPS Park Management Transfer line. In 2005, \$702,000 was transferred from prior year balances from this line to the USDOJ - NPS Park Management Transfer line.

⁹ Of the funds appropriated for USDOJ - NPS Land Acquisition Grants to the State of Florida, the follow amounts are reflected within the total appropriated to NPS: in 2002 \$8,796,000 was used in support of the Modified Water Deliveries project; in 2004 \$10,000,000 used in support of the Modified Water Deliveries project, and \$17,291,000 was reprogrammed for other NPS and FWS Everglades related activities; and in 2005 \$1,083,000 was transferred to the FWS Resource Management account for Everglades activities.

¹⁰ NPS CERP funding includes GSA space rental costs in the following amounts: FY 2004 - \$741,000; FY 2005 - \$556,000; FY 2006 - \$554,000; FY 2007 - \$554,000; FY 2008 - \$475,000; FY 2009 - \$409,000; FY 2010 - \$409,000; FY 2011 - \$409,000; FY 2012 - \$410,000; FY 2013 - \$410,000; FY 2014 - \$410,000 - FY 2015 - \$410,000; FY 2016 - \$410,000; FY 2017 - \$410,000.

¹¹ Enacted number for 2012 reflects a reprogramming within the FWS land acquisition account for acquisition at the Everglades Headwaters National Wildlife Refuge and Conservation Area.

¹² USACE FY 2014 enacted reflects reduction for the C&SF Upper St Johns River Project.

¹³ USACE FY 2015 requested reflects reduction for the C&SF Upper St Johns River Project.

¹⁴ FY2016 program funding is pending national approval of annual allocations to States. The table will be updated as appropriate when data is available.

¹⁵ FY2016 Enacted O&M data includes \$6,950,000 that will be executed in FY2017, but were provided in FY2016.

TABLE 3: STATE OF FLORIDA FUNDING SUMMARY TABLE (ACTUAL \$)

EVERGLADES ECOSYSTEM RESTORATION PROJECTS	FY 2001-02 Enacted	FY 2002-03 Enacted	FY 2003-04 Enacted	FY 2004-05 Enacted	FY 2005-06 Enacted	FY 2006-07 Enacted	2007-08 Enacted	2008-09 Enacted	2009-10 Enacted	2010-11 Enacted	2011-12 Enacted	FY 2012-13 Enacted	FY 2013-14 Enacted	FY 2014-15 Enacted	FY 2015-16 Enacted	FY 2016-17 Enacted	FY 2017-18 Requested	
COMPREHENSIVE EVERGLADES RESTORATION PROGRAM (CERP)																		
Florida Department of Environmental Protection	90,380,949	150,279,126	105,586,702	128,972,634	128,637,628	136,615,473	102,093,964	57,205,964	48,590,234	51,808,839	31,006,243	28,527,828	73,164,611	61,336,618	49,371,486	163,461,458	173,783,678	
Florida Fish and Wildlife Conservation Commission	411,000	409,000	419,000	336,359	336,359	0	0	4,465,301	2,722,651	1,496,946	1,640,302	1,187,999	2,001,704	1,732,157	2,151,735	3,004,775	4,616,862	
South Florida Water Management District	91,708,816 ¹	133,284,645 ¹	107,887,469 ¹	101,119,569 ¹	253,715,473 ¹	507,930,226 ¹	411,690,864 ¹	114,260,439 ¹	106,295,718 ¹	227,062,828 ²	52,664,416 ²	66,537,245 ²	56,117,416 ¹	52,836,197 ¹	54,436,380 ¹	35,914,180 ¹	30,815,186 ³	
NON- COMPREHENSIVE EVERGLADES RESTORATION PROGRAM (CERP)																		
Florida Department of Agriculture/Consumer Services	7,608,917	15,523,202	16,215,100	8,531,378	5,132,269	6,928,051 ³	6,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	3,000,000 ³	4,332,449 ³	4,332,449 ³	4,332,449 ³
Florida Department of Community Affairs	15,314,720	51,580,680	29,781,074	31,349,633	23,340,316	24,252,571	24,499,270	31,616,692	TBD ⁴	TBD ⁴	0 ⁴	0 ⁴	0 ⁴	0 ⁴	0 ⁴	0 ⁴	0 ⁴	
Florida Department of Environmental Protection	72,654,344	109,393,692	92,364,834	102,222,540	176,467,770	408,365,782	203,236,072	78,118,780	47,179,935	21,058,307	24,901,512	29,750,012	63,080,365	82,993,974	37,923,719	168,264,771	131,113,322	
Florida Fish and Wildlife Conservation Commission	19,681,000	21,306,000	25,729,000	27,466,653	27,579,153	27,579,153	28,682,319	4,714,329	54,582,358	43,409,812	55,075,189	57,355,349	40,209,004	48,216,417	50,832,728	52,538,808	53,607,006	
Florida Department of Transportation	4,931,000	10,528,832	1,940,300	7,905,314	5,400,000	14,375,043	9,453,057	9,766,285	18,004,018	5,812,246	20,173,349	11,619,604	19,963,236	17,656,798	11,951,883	8,969,139	52,514,958	
South Florida Water Management District	395,314,127 ¹	372,701,387 ¹	381,868,047 ¹	299,820,508 ¹	316,312,557 ¹	478,050,397 ¹	420,993,975 ¹	675,800,502 ¹	1,113,120,018 ¹	604,593,758 ²	400,452,489	366,512,069	415,873,861 ¹	418,794,193 ¹	448,384,250 ¹	395,390,671 ¹	375,141,118 ³	
CERP SUBTOTAL:	182,500,765	283,972,771	213,893,171	230,428,562	382,689,460	644,595,699	513,784,828	175,931,704	157,608,603	280,368,613	85,310,962	96,263,072	131,283,731	115,904,972	105,959,601	202,380,413	209,215,726	
NON-CERP SUBTOTAL:	515,504,108	581,033,793	547,898,355	477,296,026	554,232,065	959,550,997	692,864,693	803,016,588	1,235,886,329	677,874,123	503,602,539	468,237,034	542,126,466	570,661,382	553,428,029	629,495,838	616,708,853	
STATE OF FLORIDA FUNDING TOTAL:	698,004,873	865,006,564	761,791,526	707,724,588	936,921,525	1,604,146,696	1,206,649,521	978,948,292	1,393,494,932	958,242,736	588,913,500	564,500,106	673,410,197	686,566,354	659,387,630	831,876,251	825,924,579	

Footnotes:

¹ Reflects SFWMD adopted budget appropriations less any state and federal funds.

² Reflects SFWMD adopted budget appropriations less any River of Grass project funds which are accounted for in the Non-CERP Everglades Ecosystem Restoration Projects category.

³ The number reflected does not include Forestry's contribution for FY 2006-07, FY 2007-08, FY 2008-09, FY 2009-10, and FY 2010-11. FY 2011-12, FY 2012-13, FY 2013-14, FY 2014-15, FY 2015-16, FY 2016-17 and FY 2017-18.

⁴ Senate Bill 2156 (Chapter 2011-142, Laws of Florida) downsized Florida Department of Community Affairs (DCA). As a result, we will no longer be reporting DCA's budget information

Section 2.0

Federal Everglades Ecosystem Restoration Projects and Funding

Section 2.1: Federal Comprehensive Everglades Restoration Plan (CERP) Projects and Funding (\$82,862,000)

U.S. Army Corps of Engineers Construction (\$75,300,000)

Congress authorized the CERP in the Water Resources Development Act (WRDA) of 2000. The objective of the program is to restore, protect, and preserve water resources in central and southern Florida, including the Everglades. The CERP includes numerous projects that work together to achieve the plan's restoration goals. WRDA 2000 requires the completion of project implementation reports (PIRs) for these projects. The PIRs provide further information on plan formulation and evaluation, engineering and design, estimated benefits and costs, and environmental effects of planned restoration activities. The PIRs serve to bridge the gap between the conceptual level of detail contained in the CERP and the detailed design plans and specifications required to proceed with construction. Congress authorized three projects in WRDA 2007; the Indian River Lagoon South, the Picayune Strand Restoration, and the Site 1 Impoundment projects. An additional project, the Melaleuca Eradication Facility, was authorized for construction in accordance with the programmatic authority provision of WRDA 2000. The Water Resources Reform and Development Act of 2014 authorized four additional CERP projects; the Caloosahatchee River (C-43) West Basin Storage, the C-111 Western Spreader Canal, the Broward County Water Preserve Area, and the Biscayne Bay Coastal Wetland Phase 1 projects. The WRDA of 2016 authorized the Comprehensive Everglades Planning Project (CEPP), now referred to as the Central Everglades Project (CEP).

From a project perspective, the major focus of the U.S. Army Corps of Engineers (USACE or Corps) FY 2018 activities includes continuing construction on the Picayune Strand Project and the Indian River Lagoon South project features at C-44; oversight of the C-43 Caloosahatchee West Basin Storage Reservoir construction being performed by The South Florida Water Management District; continuation of the Loxahatchee River Watershed PIR, initiation of two reports for the Central Everglades Project; and continuation of project adaptive assessment and monitoring activities used to monitor the effects of projects as they are implemented, as well as the CERP Design program level activities.

From a program perspective, FY 2018 CERP activities include continuation of Restoration Coordination and Verification (RECOVER), an inter-agency scientific group charged with system-wide assessments of planned and completed projects as well as with programmatic level activities. RECOVER's science-based activities include evaluation and assessment on the performance of the CERP, review of the effects that other restoration projects may have on CERP, and provision of a system-wide perspective throughout the restoration process. Other program level activities include continued reassessment of project sequencing to optimize delivery of benefits as contained in the Integrated Delivery Schedule.

U.S. Department of the Interior - National Park Service (NPS) (\$4,931,000)

The CERP is a multi-decadal framework and guide to restore, protect, and preserve the water resources of central and southern Florida. Projects affecting NPS lands and waters occur in phases through the end of CERP implementation. The NPS works with the U.S. Fish and Wildlife Service (FWS) and the U.S. Geological Survey (USGS) to support CERP projects through the development of restoration performance measures and quantitative evaluations of the environmental benefits of proposed actions.

CERP projects will have significant effects on Big Cypress National Preserve (BCNP), Biscayne National Park (NP), and Everglades NP. The NPS continues to concentrate on projects that are essential to the restoration of federal lands in south Florida. The NPS actively participates in the planning for such projects including the CEPP, seepage management in the L-30/L-31N Canals, phase 1 of the C-111 Spreader Canal project, Biscayne Bay Coastal Wetlands, C-43 West Basin Reservoir, and Broward County Water Preserve Areas. CERP funding also supports work to implement project operations and assess the effects of these projects as well as the foundation projects, as successful implementation of these foundation projects is required for the CERP plan to achieve significant restoration benefits.

To support these project-level activities, the NPS, in cooperation with other federal, state, and local partners, is implementing a Monitoring and Assessment Plan for CERP, which will provide the information to determine the ecological effects and overall restoration success of CERP projects. Additionally, the NPS will continue to participate in RECOVER, the interagency group responsible for science input to the CERP.

Finally, the NPS will continue to participate in the Department of the Interior's (DOI) formal requirements on programmatic activities including: updates to the CERP Programmatic Regulations; guidance memoranda to formalize how CERP projects will be built, operated, and evaluated; interim goals that will be used to track restoration progress and provide five-year status reports to Congress; and the identification of the appropriate quantity, timing, and distribution of water that will be produced, and pursuant to Federal and State law, dedicated and managed for the natural system.

The CERP planned activities for FY 2018 include:

- For federal projects, the program would continue to represent the NPS on technical issues related to CERP system-wide monitoring, development of performance measures for use in evaluating project alternatives, interim goals, and programmatic guidance. For Florida state projects, the program would continue to represent the NPS on issues relating to the establishment of water reservations, minimum flows and levels, and water supply planning, as well as water quality and contaminants.
- For the Modified Water Deliveries and C-111 South Dade (SD) projects, the program would focus on providing technical support to track the results of the ongoing incremental field tests, and to the development of a combined operational plan that utilizes the new project infrastructure to improve natural resource conditions in Everglades NP and adjacent areas. Technical support would be provided for the remaining items required for full implementation of these projects, leading to the final water operations plan. Staff

would also manage a modified monitoring program to assess the effects of the constructed Modified Water Deliveries and C-111 SD projects on NPS lands and resources.

- The program will continue to provide hydrologic and ecological technical support to analyze the benefits of bridging the Tamiami Trail. This support would include analyzing the effects of the 1-mile bridge implemented in 2013, as well as support to the 2.6-mile additional bridging project which is currently under construction.
- The program will continue to provide technical support to the revised U.S. Army Corps of Engineers Central Everglades Planning Project (CEPP), including synthesis of current information for a one-year detailed planning effort to support the goal of project construction, beginning in FY 2019.
- The program will elevate monitoring and assessment work oriented toward threatened and endangered species on NPS lands, providing technical input to the USFWS as well as federal implementing agency planning that supports restoration-oriented water operations while protecting threatened and endangered species.
- The program would continue to provide analysis and technical support to water operations that affect Biscayne NP, and would participate in tracking the progress toward completion of components of this project.
- The program will continue to participate in two recently initiated CERP planning efforts, the Western Everglades Restoration Project (WERP) and the Lake Okeechobee Watershed Restoration Project (LOWRP). NPS efforts are currently directed at development of project performance measures and initial restoration alternatives, with the focus on the environmental analyses of impacts to NPS resources. Additional large-scale projects that affect NPS resources and link with restoration projects include the planned Florida Power and Light nuclear plant expansion and transmission corridors.
- The program will track the effects of current operations on water quality, work with the State of Florida to design water operations to minimize the risk of water quality exceedances, and would work with the State and other federal agencies, including the Environmental Protection Agency and the Department of Justice (DOJ), to review the 1992 Consent Decree nutrient standards that protect Everglades NP water quality. The program would continue to provide technical support to DOI and DOJ processes that pertain to the quality of water entering the Everglades.
- The program will track and provide technical analysis and briefings on the detailed design and implementation of the Restoration Strategies project, and its progress toward achieving the Water Quality Based Effluent Limit (WQBEL) for phosphorus entering the Everglades.

For more information, please see:

<https://evergladesrestoration.gov> and <https://www.nps.gov/ever/learn/nature/cerp.htm>

U.S. Department of the Interior - U.S. Fish and Wildlife Service (\$2,631,000)

The FY 2018 request for CERP implementation will support approximately 30 full-time employees that actively serve on planning teams for all CERP and non-CERP restoration projects being conducted by the Corps. This will enable the FWS to fulfill its Trust Resource responsibilities under the Endangered Species Act (ESA), Fish and Wildlife Coordination Act, Migratory Bird Treaty Act (MBTA), and other statutes as well as the CERP Programmatic Regulations as part of the restoration effort. The FWS is an integral planning partner in

formulating alternatives, designing, assessing and monitoring, and adaptively managing CERP project components during its implementation. The FWS is responsible for providing environmental expertise to the Corps and the SFWMD. The FWS also is involved in guiding Everglades restoration at a system-wide scale through the following activities: biannual system status reports, participation in RECOVER activities, the River of Grass Initiative, and the System Operating Manual.

In FY 2018, the FWS will continue to participate in the development and execution of major restoration projects throughout the Everglades. These activities will include assistance in restoration plan formulation and ecological benefit analysis, ESA Section 7 consultation, recovery plan implementation, monitoring and adaptive management, restoration and management activities on DOI lands, CERP project planning, preparation of Fish and Wildlife Coordination Act Reports, system-wide water quality improvement, land acquisition, migratory bird and fisheries conservation, and a myriad of multi-agency planning, science, and outreach efforts. As a recognized leader in the science of ecosystem restoration, the FWS participates as the biological and ecological expert and is an integral planning and implementation partner in the CERP to ensure that ecosystem benefits are maximized consistent with long-term CERP project goals. The FWS will design features and project components that maximize natural resource benefits through active participation throughout the restoration planning process.

For more information, please see:

<http://www.fws.gov/verobeach/EvergladesRestoration.html>

Section 2.2: Federal Non-CERP Everglades Ecosystem Restoration Projects and Funding (\$50,793,000)

U.S. Army Corps of Engineers Construction (\$1,200,000)

Kissimmee River Restoration (\$1,200,000) This project involves restoring the historic habitat in much of the Kissimmee River floodplain and restoring water-level fluctuations and seasonal discharges from Lakes Kissimmee, Cypress, and Hatchineha in the upper basin. The FY 2018 activities include project oversight of ongoing work.

U.S. Department of Agriculture - Agricultural Research Service (\$2,989,000)

The U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) conducts an integrated research program that addresses the needs of agriculture and complements the CERP. The goal of the research is to develop and transfer improved scientific technologies and enhanced management strategies that control invasive exotic species and assure the continued economic integrity of agriculture. Two major areas of research support south Florida restoration and agriculture: improved crop production systems and biological control of invasive species. Individual projects supporting these priority areas are as follows:

Biological Control of Invasive Species

- **Development and Evaluation of Biological Control Agents for Invasive Species Threatening the Everglades and other Natural and Managed Systems (\$2,626,100).** The ARS Invasive Plant Research Laboratory (IPRL) in Fort Lauderdale, Florida, and its satellite lab in Gainesville, Florida, conduct research to (1) identify and collect natural enemies for control of melaleuca, Brazilian peppertree, old world climbing fern, downy rose myrtle, Chinese tallow, air potato, water hyacinth, water lettuce, and other invasive pest plants; (2) evaluate biological control agents for release against invasive weed and insect species in a risk analysis context; (3) obtain approval for release of host specific natural enemies; (4) mass-rear and distribute approved agents on natural area weeds, (5) evaluate individual and community level impacts of established agents on weed targets, (6) quantify the effects of biological control agents on food webs, and (7) develop biological based integrated weed management strategies that are efficient, economical, and environmentally sound. Many of the biological control agents that are developed by the IPRL were discovered by scientists at the ARS Australian Biological Control Laboratory in Brisbane or the Foundation for the Study of Invasive Species near Buenos Aires. Landscape level weed suppression programs that maximize biological control agents are designed in close cooperation with client groups like the SFWMD, the Florida Fish and Wildlife Conservation Commission (FWC), the U.S. Army Corps of Engineers, the NPS, the FWS, the Nature Conservancy, and many others.

Improved Crop Production Systems

- **Soil Conservation for Sustainable Sugarcane Production (\$362,900).** The Sugarcane Field Station in Canal Point, Florida, develops high-yielding, disease-resistant sugarcane cultivars for both organic (muck) and sand soils. Development of new, improved sugarcane cultivars impacts the cultural practices used in commercial sugarcane production. In particular, harvest residue and application of chemicals during production affect critical components of sustainable production such as soil dynamics. The biggest challenge for sugarcane growers in Florida is orange rust disease, which causes considerable yield losses and increases production costs with multiple fungicide applications. The development of new cultivars with resistance to economically limiting diseases is a high priority because of the impact of brown and orange rust diseases. Promising molecular markers for resistance to orange rust have been identified in sugarcane germplasm and these markers are being validated for their use in marker-assisted breeding for the incorporation of disease resistance into new cultivars.

U.S. Department of Agriculture - Natural Resources Conservation Service (\$TBD*)

The Natural Resources Conservation Service (NRCS) provides technical assistance on a voluntary basis to private landowners and operators, tribes, and others for the planning of conservation practices and installation of needed conservation management systems with the goal of achieving natural resource sustainability. This includes the design, layout, and consultation services associated with the conservation practice application or management guidance provided. Technical assistance is targeted towards nutrient management, water quality, and water conservation concerns associated with animal feeding, livestock grazing operations, and fruit and crop production within the South Florida Ecosystem. Financial assistance is provided through a variety of USDA Farm Bill Programs.

The NRCS provides assistance to livestock and dairy producers to apply BMPs, including waste management systems, to reduce off farm nutrient discharges. A special effort in the Everglades Agricultural Area (EAA) and C-139 basin is in place to assist the land user to meet requirements outlined in the 1994 Everglades Forever Act (EFA) to reduce phosphorus loading into the Everglades Protection Area. Other areas of assistance are provided on private and tribal lands to restore wetlands, improve wildlife habitat, and control invasive exotic plant species. Financial assistance is provided through a variety of USDA Farm Bill Programs.

Agricultural Act of 2014

Environmental Quality Incentives Program

The Environmental Quality Incentives Program (EQIP) provides financial and technical assistance to farmers and ranchers who face threats to soil, water, air, and related natural resources on their land. Through EQIP, the NRCS develops contracts with agricultural producers to implement conservation practices to address environmental natural resource problems.

Payments are made to producers once conservation practices are completed according to NRCS requirements on agricultural lands that will improve or maintain the health of natural resources in the area including water quality.

Agricultural Conservation Easement Program

The Agricultural Conservation Easement Program (ACEP) provides financial and technical assistance to help conserve agricultural lands and wetlands and their related benefits. Under the Agricultural Land Easements (ALE) component, NRCS helps Indian tribes, state and local governments, and non-governmental organizations protect working agricultural lands and limit non-agricultural uses of the land. Under the Wetlands Reserve Easements (WRE) component, NRCS helps to restore, protect and enhance enrolled wetlands.

Wetlands Reserve Program

The Wetlands Reserve Program (WRP) is a voluntary program that provides technical and financial assistance to private landowners and tribes to restore, protect, and enhance wetlands in exchange for retiring eligible land from agriculture. The NRCS goal is to achieve the greatest wetland functions and values, along with optimum wildlife habitat, on every acre enrolled in the program. This program offers landowners an opportunity to establish long-term conservation and wildlife practices and wetland protection.

* FY2018 funding may be supplemented later in fiscal year. Final funding amounts may be available by Fall 2018.

U.S. Department of Commerce - National Oceanic and Atmospheric Administration
(\$1,160,000)

The National Oceanic and Atmospheric Administration (NOAA) provides science, monitoring, and modeling projects critical to implementing and assessing the CERP and other parts of the South Florida Ecosystem restoration effort. NOAA projects are providing pre-implementation and early implementation information critical in evaluating the downstream impacts of restoration activities on coastal resources. This information allows project managers to make adjustments through the adaptive management process. NOAA scientists and resource managers, including those from the Florida Keys National Marine Sanctuary Program, participate in various management and science coordination activities related to South Florida Ecosystem restoration. While many NOAA programs support restoration efforts, the following NOAA projects directly support CERP implementation.

Atlantic Oceanographic & Meteorological Laboratory (AOML)

Almost all of the replumbing and inland restoration efforts will ultimately affect the flow of water, nutrients, and other elements to coastal bays and estuaries. Understanding the impacts of changes in surface water flows to coastal systems is critical in determining the overall success of restoration activities. Since the early 1990's scientists from AOML (South Florida Program) have been conducting interdisciplinary observations of south Florida coastal waters. In 2017, NOAA funds supported large-scale shipboard surveys conducted from the R/V Walton Smith. Large-scale surveys are planned for 2018 and will cover the waters of the Florida Keys National Marine Sanctuary. Data collected will continue to improve the predictive capabilities and enhance the

understanding of the south Florida coastal ecosystem and its connectivity to the Everglades, allowing NOAA to contribute to adaptive management of CERP and fulfill its responsibility to CERP.

Restoration Science and Assessment/National Marine Fisheries Service

The NOAA Southeast Fisheries Science Center, in collaboration with other agencies and entities, conducts monitoring and assessment projects to support CERP. In FY 2017, NOAA's National Marine Fisheries Service supported scientific activities to determine the impact of upstream restoration efforts and changing freshwater inflow on south Florida coastal systems. This fisheries research, which will continue in FY 2018, examines the impacts of changing freshwater runoff patterns on inshore and coastal habitats and associated fishery resources.

Biscayne Bay NOAA Habitat Blueprint Focus Area/National Marine Fisheries Service

Planning and implementation of NOAA's new Biscayne Bay Habitat Focus Area continued in FY2017. The Biscayne Bay HFA is one of 10 HFA's in NOAA's Habitat Blueprint Initiative. This initiative provides a forward looking framework for coordination within NOAA and with partner organizations to address the growing challenges of coastal and marine habitat loss and degradation. In FY2017, the Southeast Fisheries Science Center and the Atlantic Oceanographic and Meteorological Laboratory received funding from the Southeast Regional Office of NOAA Fisheries to address a major goal of the Biscayne Bay HFA: improved understanding of factors causing algal blooms in the Bay to guide their prevention. Help is coming from a NOAA grant to address water quality monitoring needs and improve communication with policy makers and the public about threats to the Bay's health and the importance of a healthy bay to the region's economy and wellbeing. Through the Habitat Blueprint initiative and existing programs, NOAA will continue to work within CERP and with other partners to protect and enhance Biscayne Bay's ecosystem health.

U.S. Department of the Interior - National Park Service (\$33,836,000)

Park Management (\$28,341,000)

Big Cypress National Preserve (\$6,460,000)

Fiscal Year 2018 funding will support area management activities promoting public use and resource protection through the implementation and interpretation of an extensive back-country off-road vehicle (ORV) trail system. The NPS will continue to support mandated programs such as the protection, inventory, and monitoring of ten threatened and endangered species (such as the Florida panther, Cape Sable seaside sparrow, and Florida manatee) and a large hydrology program that includes restoration of sheet flow to Everglades NP and the Ten Thousand Islands. Additional mandated programs include special uses such as oil exploration/production, the largest recreational hunting wildlife management area in south Florida, implementation of the largest recreational ORV program in the 48 States, and 22 American Indian (Seminole, Miccosukee, and independent) sites on preserve lands. The preserve also supports the largest prescribed fire program in the NPS; visitor and resources protection of 728,000 acres of predominately backcountry areas; maintenance of 26 employee housing units, two major visitor support facilities, public utility systems, five primitive campgrounds, three developed campgrounds, and 66 miles of roads; and management of approximately 460 known archeological sites.

The natural resources management program will continue to collect baseline data in formats that are compatible with interagency regional hydrologic and community/species-based models, control non-native plants, protect threatened and endangered species, mitigate visitor impacts, and manage funds to support direct inventory/monitoring of resources and a geographic information system (GIS).

For more information, please see: <http://www.nps.gov/bicy/index.htm>

Biscayne National Park (\$4,055,000)

Fiscal Year 2018 funding will support the park's area management activities including: promoting public use and mitigation of public use; interpretation and education programs; protection of resources; and efforts to address impacts and threats associated with urban sprawl, increased urban freshwater use, four solid waste landfills, and a nuclear power facility. All of these threats are located along the park's western boundary and are "upstream" with respect to surface- and ground-water flow into the park.

The park performs other area management activities associated with the protection of the park's natural, cultural, and historic resources as well as maintenance of park facilities. The park protects 173,000 acres of resources that include Biscayne Bay, the largest living coral reef system in the NPS, eight known terrestrial cultural sites, 67 known submerged cultural sites, approximately 20 historic structures, and two national historic districts within a boundary that has unlimited access points. The park maintains three developed islands and two mainland sites that include six harbors/docking facilities, two campgrounds, six picnic areas, approximately ten miles of trails, six residences, an environmental education camp, and a major visitor center.

The park's natural resources management will continue to protect Biscayne Bay estuarine resources, coral reefs, seagrass beds, and hard bottom communities; monitor water quality; document and mitigate impacts due to visitor and commercial uses; control exotic vegetation; and monitor 17 federally threatened and endangered species. Special efforts are applied to prevent and restore extensive damage to seagrass beds and coral reefs from boat groundings. Extensive efforts are made to work with local, state, and federal government agencies on development and impact issues.

For more information, please see: <http://www.nps.gov/bisc/index.htm>

Dry Tortugas National Park (\$1,977,000)

Funding in FY 2018 will support operations of this 65,000-acre marine and historical park located 70 miles west of Key West. Current funding will continue to support natural and cultural resource management, including a preservation and maintenance program for Fort Jefferson. The NPS will continue to document and recommend management strategies for submerged cultural resources. These efforts are supported by park staff, with overall technical direction provided by the NPS Submerged Cultural Resources Unit. Natural resource activities include continuation of park-funded science and monitoring to analyze the efficacy of the Dry Tortugas Research Natural Area, natural resource damage assessment and restoration, and monitoring of sea turtles. Natural resource activities are performed by Dry Tortugas NP natural resources staff, with technical and additional staff support provided by Everglades NP (South Florida Natural Resources Center).

For more information, please see: <http://www.nps.gov/drto/index.htm>

Everglades National Park (\$15,849,000)

Funding for Everglades NP in FY 2018 will support area management activities including operations, natural and cultural resource management, planning, maintenance, and ecosystem restoration. The park continues to attract significant national and international attention as a symbol of the effort to restore the Everglades and of the balance being sought in striving to secure south Florida's future. With over 1.5 million acres of fragile wilderness immediately adjacent to approximately six million people, and over one million visitors each year, Everglades NP has special challenges. The park has outreach programs to the local community and has traditionally sustained a large backcountry/wilderness operation.

The park operates major visitor use areas at Flamingo, Shark Valley, and Everglades City, and oversees multiple concessions operations. Infrastructure requires extensive short-term maintenance, as well as long-term upgrades. The park has 82 miles of surfaced roads, 160 miles of trails, two campgrounds, 48 backcountry campsites, and two fee collection stations.

The park remains one of the most ecologically complex parks in the nation and is unique in that it has an unprecedented four international treaty designations. It is home to approximately 750 native plant species, 61 of which are considered critically imperiled in south Florida, and hosts 39 species of orchids of which 12 species are critically imperiled. Over 360 species of birds have been found in the park. Florida Bay, making up about 40 percent of the Park area, is continuing to experience dramatic changes, including alterations between hypo- and hyper-salinity, increased turbidity, seagrass die-offs, and persistent and increasing spreads of algae blooms. Exotic plants have and are continuing to replace native plant communities in the park and adjacent natural areas. Exotic animals, particularly reptiles, have become a major natural resource management issue for the park.

For more information, please see: <http://www.nps.gov/ever/index.htm>

South Florida Ecosystem Restoration Task Force (\$1,241,000)

Funding in FY 2018 will sustain the continued operations and activities of the Department of the Interior's Office of Everglades Restoration Initiatives (OERI). Since 1996, the OERI has provided senior executive level leadership and associated staff to support the congressionally mandated responsibilities of the Department and the Secretary in the restoration of America's Everglades and to fulfill the Secretary's role as chair of the intergovernmental South Florida Ecosystem Restoration Task Force (Task Force). The OERI, under the leadership of the office of the Assistant Secretary for Fish, Wildlife and Parks, serves as the south Florida liaison for the Office of the Secretary in coordinating all departmental and bureau-level Everglades restoration activities. The OERI is a leader in stakeholder engagement, the integration of science and decision-making, and conflict resolution in Everglades restoration.

The OERI works directly with the federal, state, local government, and tribal representatives on the Task Force and administers, manages, and supports the priorities, activities, meetings, and the required reporting responsibilities of the Task Force, its Working Group, the Science Coordination Group, and Biscayne Bay Regional Restoration Coordination Team. The required reporting documents produced by the OERI include the South Florida Ecosystem Restoration

Strategy and Biennial Report, the annual Integrated Financial Plan, the Plan for Coordinating Science, and the annual Cross-cut Budget. In addition to the key Everglades restoration support activities described above, the OERI has been designated by the Task Force to lead and coordinate the implementation of the Invasive Exotic Species Strategic Action Framework that it developed through an interagency team in 2014. The OERI will also continue maintaining and enhancing the [evergladesrestoration.gov](http://www.evergladesrestoration.gov) website that was launched in November 2014. This website serves as an innovative, thorough, and convenient source of information on the restoration of America's Everglades.

The OERI will continue to fulfill its responsibility to serve as an important source of communication and information for a number of stakeholders and interested parties including Congress, the Florida Legislature, the Seminole Tribe of Florida, the Miccosukee Tribe of Indians of Florida, the National Academy of Sciences, non-governmental organizations, and private citizens.

For more information about OERI and the restoration of America's Everglades, please see: <http://www.evergladesrestoration.gov/>

Everglades Research - Critical Ecosystem Studies Initiative (\$3,618,000)

Since its inception in 1997, the Critical Ecosystem Studies Initiative (CESI) has been the primary investment by DOI to provide scientific information to advise restoration decision-making and to guide its own land management responsibilities for South Florida Ecosystem restoration.

The CESI planned activities for FY 2018 include:

- Emphasizing critical long-term hydrologic and biological monitoring projects that support assessments of the effect of restoration projects on NPS resources. Ongoing projects on fish and macro-invertebrates, marsh water level and flow monitoring, threatened and endangered species, and vegetation communities most likely impacted by implementation of the ecosystem restoration projects will continue.
- Implementing applied science and monitoring to fill gaps in the Modified Water Deliveries monitoring program, through cooperative agreements that track the effects of the Modified Water Deliveries project and C111 South Dade Project on Everglades NP resources.
- Supporting marine and estuarine applied science and enhanced monitoring of the physical and ecological indicators of the health of Florida Bay due to the 2015/2016 Florida Bay seagrass die-off and associated algal blooms.
- Continuing to support Task Force and the Department's oversight of the Everglades Restoration Initiative.
- Continuing work on biological and hydrologic databases, including analysis of existing long-term hydrologic and biological data sets that will allow resource managers, decision-makers, and the public to understand the trends in Everglades NP resources as they relate to water management changes and climate variation.
- Continuing support of hydrologic and ecological modeling and synthesis of ecological information and ecosystem services that the DOI would use during detailed planning for the CEPP and in design of water operations plans.
- Increasing support of applied science on the effects of exotic invasive species on the natural resources of Everglades NP, Big Cypress National Preserve and Biscayne NP, and

on the development of methods of detection, suppression, and control of invasive species, especially invasive plants and reptiles

- Continuing to support scientific work on the endangered Cape Sable seaside sparrow, to enhance the ability to manage this species during the next decade as water inflows to Everglades NP are redistributed.
- Increasing support for scientific work on the potential effects of climate change and sea level rise, as these factors affect coastal resources and interact with plans for Everglades restoration.

For more information, please see: <https://www.nps.gov/ever/learn/scienceresearch.htm>

Construction (\$0)

Tamiami Trail Bridging (\$0)

Reestablishment of more natural and increased water flow to Everglades NP is a key requirement for Everglades restoration and additional bridging and roadway raising along the eastern Tamiami Trail is necessary to accomplish restoration as the current roadway still continues to limit water flow. The proposed project is located at the deepest portion of Shark River Slough, the section of the River of Grass that historically carried the largest volume of water into Everglades NP. The State of Florida's Department of Transportation (FDOT) has committed to match federal funds for this project, up to \$90.0 million.

The original FDOT cost estimate was \$144 million (\$125 million for net construction), which the State of Florida and NPS will split equally to award a design/build contract. Based on the current estimate, the NPS expects its total commitment to be \$52.1 million. This includes the \$7.5 million of NPS Line-Item Construction, a Federal Highway Administration \$20 million Transportation Investment Generating Economic Recovery (TIGER) grant, and \$20.5 million from the Federal Lands Transportation Program (FLTP) for fiscal years 2015 through 2018.

For more information, please see:

<http://www.nps.gov/ever/learn/nature/nessrestoration.htm>

Land Acquisition (\$636,000)

Land Acquisition Management (\$636,000)

Funding in FY 2017 will administer the federal land acquisition program in south Florida to enable completion of land acquisition and to meet the schedule established by DOI.

U.S. Department of the Interior: Fish and Wildlife Service (\$8,375,000)

Resource Management (\$8,375,000)

Ecological Services (\$3,110,000)

These funds will allow the FWS to continue coordination, technical assistance, and partnering efforts with the NPS, the USGS, tribal governments, state agencies, and private organizations involved in the restoration of the South Florida Ecosystem. The funds for FY 2018 will also enable the FWS to continue implementing the Multi-Species Recovery Plan, which provides a blueprint for protecting, conserving, and managing the threatened and endangered fish and wildlife resources. The FWS is undertaking comprehensive habitat based strategies for restoration and

recovery of species. Examples of this include the establishment of panther conservation banks and multi-species management plans.

The FWS will continue consulting with and providing technical assistance to the Corps, the NPS, and other federal agencies relative to those agency activities that potentially affect federally listed species. The FWS continues its historically active role in reviewing applications for impacts on wetlands under the Corps' regulatory program. In addition to the analysis of direct, indirect, and cumulative impacts, the FWS ensures that private development proposals are compatible with the CERP. The planning and building of several CERP components requires careful review of applications by the local sponsor, mainly the SFWMD, through the Corps' regulatory process. In FY 2017, the FWS will continue consultation with the Corps on the CERP, as well as other ongoing or new federal projects. Further, the FWS will evaluate the potential need to list additional species pursuant to the ESA, and develop cooperative agreements with landowners for the protection and conservation of listed species through Candidate Conservation Agreements, Safe Harbor Agreements, and Habitat Conservation Plans.

Also included in this program category, the South Florida Coastal Habitat Restoration Program actively forms partnerships with other federal and state agencies, local governments, non-governmental entities, and private property owners to implement on-the-ground restoration projects as well as to conduct research, monitoring, and public outreach activities. The Coastal Program complements the larger, more comprehensive South Florida Ecosystem restoration initiative by implementing immediate on-the-ground actions designed to protect, conserve, and restore coastal living resources. For the past several years, the importance of on-the-ground restorative actions has been reflected by the distribution of half of the Coastal Program's budget toward actual habitat restoration.

In FY 2018, the FWS will address new Corps project starts and continue to be actively involved in threatened and endangered species consultation and recovery, private land partnerships, environmental contaminant reviews, coastal restoration projects, preparation of Fish and Wildlife Coordination Act Reports, system-wide water quality improvement, and myriad multi-agency planning, science, and outreach efforts. The FWS will ensure that ecosystem benefits are maximized consistent with Everglades restoration goals. The role of the FWS will support and advance adaptive management and the principal goals of Everglades restoration.

Refuges and Wildlife (\$4,524,000)

The FWS administers 16 national wildlife refuge units in south Florida, as well as the new Everglades Headwaters National Wildlife Refuge and Conservation Area in south-central Florida. The Service manages all actions under the ESA, provides comments on comprehensive wetland programs (including permitting), carries out authorities of the Fish and Wildlife Coordination Act, and enforces federal wildlife laws. As a member of the Working Group, the FWS will continue to undertake important on-the-ground restoration activities.

Migratory Birds (\$87,000)

While coordinating with the Service's South Florida Ecological Services Field Office and the Arthur R. Marshall Loxahatchee National Wildlife Refuge, the Division of Migratory Birds works cooperatively with the FWC and the SFWMD to provide technical expertise relative to MBTA implications on the various CERP projects, especially for avian protection plans and management

of invasive exotics species such as the purple swamp hen. Effective implementation of the CERP with the above partners, the Corps, the NPS, and others is critical to restoring water quantity, quality, timing, and distribution for the benefit of people, migratory birds, and other wildlife and their habitats.

Law Enforcement (\$567,000)

Funding will be used to enhance law enforcement's ability to handle the quickly escalating regional workload. There has been a marked increase in the illegal trafficking of exotic protected species and the unlawful "taking" of endemic species protected by the ESA and the MBTA throughout south Florida. Southwest Florida is one of the most ecologically sensitive and rapidly growing areas of the State, requiring the highest priority for establishing an increased law enforcement presence. Funding will allow the purchase of vehicles, boats, and marine equipment needed by law enforcement personnel to conduct investigations in remote areas. Additional personnel will be detailed to "task force" enforcement operations within the ecosystem as needed. Increased efforts to educate the public regarding the law and illegal activities will be emphasized.

Fisheries (\$87,000)

Efforts will be directed toward restoration of anadromous and coastal fish species in south Florida. Emphasis will be placed on ensuring that non-indigenous fish species are adequately evaluated for potential effects on restoration activities.

Land Acquisition (\$0)

U.S. Department of the Interior - U.S. Geological Survey (\$2,853,000)
Greater Everglades Restoration - Integrating Research, Planning, and Interagency Coordination (\$2,853,000)

South Florida is particularly vulnerable to the introduction and spread of invasive plants and animals and is home to a wide variety of non-native species such as melaleuca, Old World climbing fern, the Burmese python, and most recently, the Argentine black and white tegu.

In FY 2018, the Ecosystem Mission Area and the USGS Greater Everglades Priority Ecosystem Sciences program will continue to support high priority research needs identified by the Task Force through its Invasive Exotic Species Strategic Action Framework:

<http://www.evergladesrestoration.gov/content/ies/ies.html>

This Task Force-led process occurred over 1.5 years with participation from federal, state, and local governments, tribes, NGOs, academia, and private citizens, and identified Early Detection and Rapid Response (EDRR) as the best way to stop invasive species early in their invasion process. They also identified the need for a risk assessment framework to help natural resource managers decide how to allocate limited resources in the face of new invasive threats - an initial framework which has been developed by USGS. The USGS research will address priorities established by the working group. Research will focus on aspects of EDRR such as improving detection of rare species using techniques such as environmental DNA (eDNA), developing and

assessing screening tools to identify potentially invasive species, and filling key biological and ecological information gaps to better predict potential ranges and impacts of invasive species.

U.S. Department of the Interior – Bureau of Indian Affairs (BIA) (\$380,000)

In FY 2018, \$380,000 will be used for continuing efforts to restore the South Florida Ecosystem for the Seminole Tribe of Florida (Seminole Tribe) and the Miccosukee Tribe of Indians of Florida (Miccosukee Tribe). This funding (\$192,500 each) is included within each Tribe’s base funding and is provided to support research, studies, and planning on water quality and distribution systems, ecosystem development and management, and planning for compliance with the ESA in stormwater areas on the Seminole and Big Cypress reservations.

In FY 2017, in addition to base funding, BIA provided \$90,000 to address invasive species. This included an invasive-noxious weeds funding award of \$10,000 to the Miccosukee Tribe to address 50 acres of melaleuca, an invasive-noxious weeds funding award of \$50,000 to the Seminole Tribe to address 200 acres of tropical soda apple, and \$30,000 to the Seminole Tribe for controlled burns and livestock grazing in relation to python prevention and management.

The Seminole Tribe also received \$100,000 in endangered species funding to assist with work on invasive fish and constrictor snakes.

Awards for FY 2018 are not yet determined, but it is possible that these Tribes may be awarded additional funding.

U.S. Environmental Protection Agency (EPA) (\$0)

The proposed EPA budget eliminates funding for specific regional efforts such as the South Florida Geographic Initiative, which includes the non-CERP Everglades Ecosystem Restoration Projects and Funding. The proposed budget returns the responsibility for funding local environmental efforts and programs to state and local entities, allowing the EPA to focus on its highest national priorities.

http://ocean.floridamarine.org/fknms_wqpp/pages/wqpp.html

Section 3.0

State of Florida Everglades Ecosystem Restoration Projects and Funding

Section 3.1: State of Florida Comprehensive Everglades Restoration Plan (CERP) Projects and Funding (\$209,215,726)

Florida Department of Environmental Protection (\$173,783,678)

The implementation of the Comprehensive Everglades Restoration Plan (CERP) is a high priority for the Florida Department of Environmental Protection (FDEP), in partnership with the South Florida Water Management District (SFWMD); other state, federal, and local agencies; tribes; and environmental groups.

The FDEP administers the Save Our Everglades Trust Fund (SOETF), which is used to pay for a portion of the State's share of CERP (dep.state.fl.us/everglades). Additional Everglades restoration funding was received in Fiscal Year (FY) 2017/2018 from the Land Acquisition Trust Fund (LATF) to fund CERP, the Northern Everglades and Estuaries Protection Program (NEEPP) and the Restoration Strategies Regional Water Quality Plan (Restoration Strategies), which will be discussed further in section 3.2. The Florida Legacy bill was signed into law during the 2016 legislative session and provides continual funding beginning in FY 2017-2018 with a minimum of \$200 million for Everglades project implementation with a preference given to projects that reduce harmful discharges from Lake Okeechobee to the St. Lucie or Caloosahatchee estuaries.

Governor Scott's FY 2017-2018 CERP funding includes a total of \$173,783,678. Of these funds, \$135,664,122 will be distributed through the FDEP to the SFWMD for the planning, design, engineering, and construction of various CERP projects (the Indian River Lagoon South, C-44 Stormwater Treatment Area and C-43 West Basin Reservoir projects). An additional \$33,000,000 in funding was provided with the passage of Senate Bill 10. These funds were provided to expedite the Everglades Agricultural Area project. An additional \$64,000,000 will be provided under this bill beginning in FY 2018/2019, in addition to the amount that will be provided under Legacy Florida.

The FDEP also administers the Florida Forever Program and the Florida Forever Trust Fund (FFTF; dep.state.fl.us/mainpage/programs/florida_forever.htm). Approximately \$619,000 from the FFTF will be used to complete the Picayune Strand Restoration Project land acquisition.

The FDEP CERP-related project expenditures during the past FY totaled \$117,289,755 and included the following activities:

- Office of Ecosystem Projects
 - The Office of Ecosystem Projects oversees implementation of CERP projects. Tasks include policy, regulatory, planning, program coordination, technical and engineering support, and coordination with other FDEP staff regarding issues related to CERP and Non-CERP projects. Projects funded through the SOETF and LATF during FY 2016-2017 include the C-43 West Basin Storage Reservoir project, the C-44 Reservoir and Stormwater Treatment project, the Loxahatchee River Watershed Restoration project,

the Picayune Strand Restoration project, C-111 Spreader Canal, and CERP Water Quality Studies.

- Southeast District
 - Tasks include waste cleanup reviews on lands acquired for restoration projects.
- Waste Management in Tallahassee
 - Tasks include technical support and review of potential impacts from residual agrochemicals on lands acquired for restoration projects and CERP Water Quality Studies.
- Division of Environmental Assessment and Restoration
 - Watershed Monitoring Section, Water Quality Assessment Program, quality assurance assistance, Total Maximum Daily Load and Basin Management Action Plan (BMAP) development, the South Florida Canal Study, mercury research and monitoring, the Sediment Guidelines Modification Study, and CERP Water Quality Studies.
- Division of State Lands
 - Restoration land acquisition for the Picayune Strand Restoration Project.

Florida Fish and Wildlife Conservation Commission (FWC) (\$4,616,862)

The FWC contributes to CERP projects by providing technical assistance to the sponsoring agencies, ensuring that CERP activities address the needs of fish and wildlife and their associated habitats. The Office of Conservation Planning Services facilitates official consultations for CERP projects through various processes including inter-agency planning teams, the Coastal Zone Management Act, the Fish and Wildlife Coordination Act, and the National Environmental Policy Act (NEPA).

FWC's Office of Strategic Initiatives (OSI) identifies and coordinates programs with boundary-spanning implications that benefit wildlife and their habitats. In FY 2012/2013, the agency organized an inter-divisional team to prioritize and coordinate the agency's contributions to all inter-agency ecosystem restoration activities in south Florida including CERP. In 2016, the FWC created an Everglades Coordinator position, housed within OSI, to work across FWC divisions and regions, to ensure that the FWC is strategically positioned to support restoration of the South Florida Ecosystem.

South Florida Water Management District (\$30,815,186)

The SFWMD is the local sponsor for the majority of the 68 projects included in the CERP. Planning, design, and construction are currently underway on some of these projects. While some projects are in the planning and design phase, others such as the Indian River Lagoon South C-44 Reservoir and STA Project and Picayune Strand Restoration Project are currently under construction.

The Indian River Lagoon South restoration project will reduce harmful freshwater inflows and generate habitat and water quality improvements in the St. Lucie Estuary and the Indian River Lagoon. The SFWMD has completed construction of the C-44 Communication Tower and System Discharge. The 6,300 acre C-44 Stormwater Treatment Area (STA) is currently under construction and expected to be completed in December 2017. Additionally, the reservoir pump station is under construction and expected to be complete by September 2018. The C-44 Reservoir, which will store up to 50,600 acre-feet of water, is under construction by the USACE and expected to be complete in 2020.

The Picayune Strand Restoration project will reestablish natural sheetflow to enhance wetlands in the 55,000-acre Picayune Strand and provide more natural freshwater inflow to the Ten Thousand Islands National Wildlife Refuge. The SFWMD initiated construction of the Manatee Mitigation Feature of the Picayune Strand Restoration Project in late Spring 2015 and construction is now complete. In addition, the design level modeling for the southwestern protection feature was initiated in October 2015, the initial field work and geotechnical investigations have been completed and preliminary seepage analysis and modeling are underway. The operational testing and monitoring period for the Merritt Pump Station is complete and the structure has been transferred to the SFWMD. The Faka Union Pump Station began the Operational Testing and Monitoring Period in January 2016 with an anticipated transfer to SFWMD in late 2017 or early 2018. The Miller Pump Station is currently under construction by the USACE and acquisition of remaining project lands in the Belle Meade area is underway.

The C-43 West Basin Reservoir Project will capture and store approximately 170,00 acre-feet of water, reducing damaging discharges to the Caloosahatchee Estuary. The project will capture and store stormwater runoff from the C-43 basin and Lake Okeechobee. It will also improve the salinity balance for the Caloosahatchee Estuary by controlling peak flows during the wet season and providing essential flows during the dry season. The SFWMD has started construction of this project. Demolition work is underway and expected to be complete by August 2017 and construction of the first (195 cfs) pump station will be complete in April 2018. The second pump station (1500 cfs) will be awarded in January 2018 and the reservoir will be complete in 2022.

The Central Everglades Planning Project (CEPP) includes a suite of storage, treatment, conveyance and seepage management measures that will provide the necessary components to deliver additional fresh water from Lake Okeechobee south to Water Conservation Area 3, Everglades National Park and Florida Bay. The Central Everglades Planning Project has focused on developing the next phase of CERP projects under a national pilot project program in the USACE streamlined planning process. The CEPP Project Implementation Report (PIR) was completed and the Chief of Engineers Report was signed in December 2014. The project was authorized in December 2016 and currently awaits appropriations.

In conjunction with other CEPP South components, removal of approximately 6 miles of Old Tamiami Trail between the Everglades National Park (ENP) Tram Road and the L-67 Extension Levee will provide a net gain of wetland acreage, facilitate additional deliveries of water from WCA 3A directly to ENP and aid in alleviating the high water conditions currently being experienced in WCA 3A by providing an increase in the conveyance capacity of the S-12 structures. An interagency team comprised of the SFWMD, Florida Fish and Wildlife

Conservation Commission, FDEP and the Florida Department of Transportation is currently investigating options to move this project forward.

The SFWMD and USACE updated the Integrated Delivery Schedule in 2015 and, in accordance with this publicly supported schedule, initiated the Lake Okeechobee Restoration Watershed, Western Everglades Restoration and Loxahatchee River Watershed Restoration projects in 2016. The SFWMD and USACE are using the Corps SMART planning process for current CERP planning projects.

In addition to the projects listed above, the SFWMD partners with the USACE on several other projects. The Melaleuca Mass Rearing Annex project to raise biological control agents to aid in the eradication of exotic plant species in the Everglades was the first CERP project transferred into the OMRRR phase under the 50/50 cost share agreement between the USACE and the SFWMD. The C-111 West Spreader Canal, Biscayne Bay Coastal Wetlands and Broward County Water Preserve Areas are in different stages of design and construction. Status of these projects can be found on the Everglades Restoration Progress document at <https://www.sfwmd.gov/our-work/everglades>.

Section 3.2: State of Florida Non-CERP Everglades Ecosystem Restoration Projects and Funding (\$616,708,853)

Florida Department of Agriculture and Consumer Services (FDACS) (\$4,332,449)

The FDACS, through its Office of Agriculture Water Policy, addresses water issues relating to agriculture and ecosystem restoration. The FDACS is responsible for addressing agriculture non-point source water pollution and for implementing Total Maximum Daily Loads (TMDLs) in water bodies and segments statewide. Lake Okeechobee is the first recipient of a TMDL in Florida and the FDACS has implemented a program in the Lake's basin to deal with agriculture non-point sources. The FDACS also plays an important role in the management of public lands through the Florida Forest Service (formerly the Division of Forestry). The Florida Forest Service is the lead managing agency on the Picayune State Forest (Southern Golden Gate Estates and Belle Meade) and is the state agency responsible for wildfire suppression and prevention and forest protection in south Florida.

Florida Department of Environmental Protection (FDEP) (\$131,113,322)

The FDEP's non-CERP South Florida Ecosystem restoration priorities include implementation of the Everglades Forever Act, Restoration Strategies Regional Water Quality Plan (Restoration Strategies) and the Northern Everglades and Estuaries Protection Program (NEEPP) (dep.state.fl.us/everglades). Governor Scott's FY 2017-2018 budget provides funding from the LATF for the following programs: \$32,000,000 for Restoration Strategies and \$34,000,000 for the implementation of NEEPP and water storage projects that provide relief from discharges to the St. Lucie and Caloosahatchee rivers and estuaries. Governor Scott's FY 2017-2018 budget also includes \$5 million distributed through the FDEP to the SFWMD for Dispersed Water

Management, a shallow water storage program initiated by the state that retains water on public and private lands providing local basin runoff relief.

A new initiative for Governor Scott passed during the 2017 Florida legislative session, advancing the completion of the Herbert Hoover Dike Rehabilitation Project (HHD). For this effort, the Governor approved a \$50,000,000 appropriation to be applied as “Contributed Funds” to expedite the completion of the HHD. These funds will aid the U.S. Army Corps of Engineers in completing critical components of the HHD project two years in advance of their schedule.

In addition, the FDEP implements water quality improvement programs for the Clean Water Act Section 303d-listed water bodies; ecosystem restoration project management; watershed planning and coordination activities; BMAPs, and research and monitoring (dep.state.fl.us/water/watersheds/bmap.htm). The FDEP Florida Coastal Office (FCO) manages more than 4 million acres of submerged lands and coastal uplands in Florida. With support from the National Oceanic and Atmospheric Administration, FCO manages 41 aquatic preserves, three National Estuarine Research reserves, the Florida Keys National Marine Sanctuary, and the Coral Reef Conservation Program (dep.state.fl.us/coastal/fco.htm).

The FDEP’ s related project expenditures during the past FY totaled \$113,570,226 to support the following non-CERP projects and activities:

- Office of Ecosystem Projects
 - The Office of Ecosystem Projects also oversees implementation of non-CERP projects. Tasks include policy, regulatory, planning, program coordination, technical and engineering support, and coordination with other FDEP staff regarding issues related to non-CERP projects. Non-CERP projects funded through the SOETF during FY 2016-2017 include the following: Restoration Strategies, Lake Hicpochee North Hydrologic Enhancement, Lakeside Ranch Stormwater Treatment Area, Kissimmee River Restoration land acquisition, C-111 South Dade, and Dispersed Water Management projects.
- Division of Environmental Assessment and Restoration
 - Tasks include TMDL and BMAP development, water quality sampling and technical support, the South Florida Canal Study, mercury research and monitoring, aquatic ecology and quality assurance assistance and reviews, and water quality-related issues associated with the Everglades.
- Southeast District
 - Tasks include waste cleanup reviews on lands acquired for restoration projects.
- Florida Coastal Office
 - Programs include the National Estuarine Research Reserve, the Coral Reef Conservation Program, the Florida Keys National Marine Sanctuary, and the Aquatic Preserves Program.

Florida Fish and Wildlife Conservation Commission (FWC) (\$53,607,006)

The FWC embodies the state's executive responsibility for managing Florida's freshwater, marine, and terrestrial fish and wildlife. In order to meet its mission, the agency contributes to South Florida Ecosystem restoration and conservation both operationally and through partnerships.

Operations: Four of the agency's divisions manage fish and wildlife resources (Division of Freshwater Fisheries Management, Division of Habitat and Species Conservation, Division of Hunting and Game Management, and Division of Marine Fisheries Management), while the Division of Law Enforcement ensures that laws protecting fish, wildlife, and their habitats are enforced. The Fish and Wildlife Research Institute administers the research and monitoring programs that support the FWC's mission and integrates its research activities with management efforts of other divisions. A significant contribution in this regard are the GIS-based species habitat models used to identify those lands that need to be conserved in support of imperiled species management plans. FWC programs support non-native species research and management, invasive plant management, Florida panther restoration research, and alligator management throughout the South Florida Ecosystem.

The FWC is either sole manager or a partnering manager on over one million acres of public lands throughout the region. Additionally, the FWC contributes to state land acquisition programs targeting lands within, or contiguous to areas currently managed by the FWC. Further, the FWC administers an on-going lake enhancement and restoration program to maintain quality habitat for wetland-dependent fish and wildlife.

Partnerships and Outreach: Partnerships with other governmental agencies (local, state and federal), non-governmental organizations, and individuals help achieve conservation goals for wildlife. Working with partners, the FWC provides both technical assistance and grant support to build public-private conservation partnerships with Florida landowners wishing to sustain fish and wildlife habitat on their properties. FWC partnerships also support the agency's broad outreach goals that encourage the responsible use of natural resources, education, and conservation.

Some of the FWC's planned funding for South Florida Ecosystem restoration during FY 2016-2017 includes:

- Division of Habitat and Species Conservation (\$29,957,723)
- Law Enforcement (\$23,030,283)
- Division of Freshwater Fisheries (\$383,000)
- Fish and Wildlife Research Institute (\$215,000)

Florida Department of Transportation (\$52,514,958)

The Florida Department of Transportation (FDOT) is a leader among transportation agencies in the nation for protecting wildlife and redesigning roadways to restore natural water flow to over-drained areas. The FDOT is also a leader in providing funding and technical assistance to plan and implement greenways and trails. The FDOT highlights two projects in this fiscal year's plan:

- FDOT District Six is funding Everglades Restoration as part of the Tamiami Trail Next Step project.
- FDOT District Four is funding snail kite mitigation associated with the State Road 7 Extension Project.

Some of the FDOT's planned funding for South Florida Ecosystem restoration during FY 2017/18 is \$52,514,958) and includes:

- Exotic and endangered/threatened plant survey (\$133,078)
- Research to determine the effectiveness of wildlife crossings (\$1,338,972)
- Mitigation maintenance and monitoring (\$531,050)
- Removal of exotic vegetation (\$1,610,500)
- Wildlife and wetland mitigation (\$2,718,942)
- Seagrass and mangrove mitigation (\$1,772,733)
- Everglades Restoration (\$44,397,975)

South Florida Water Management District (\$375,141,118)

The SFWMD is implementing the Long-Term Plan by including the structural and vegetation enhancements to the existing STAs, implementing Best Management Practices (BMPs) and working to ensure integration with CERP projects. In Water Year 2017 (May 1, 2016 - April 30, 2017), the STAs treated approximately 1.1 million acre-feet of water and recorded excellent annual performance, retaining 84% of phosphorus from water flowing through the treatment cells and treating water to a flow-weighted mean concentration of 15 parts per billion of phosphorus, the lowest concentration on record. During the water year, the STAs removed more than 108 metric tons of phosphorus. <http://www.sfwmd.gov/sta>

BMPs in the Everglades Agricultural Area produced a 152 metric ton (70%) reduction in phosphorus exceeding the 25% statutory requirement. For the sixth consecutive year, BMPs in the C-139 Basin complied with the requirement of maintaining historic phosphorus loads. Additionally, the SFWMD works closely with the FDEP and other local, state, federal, and tribal governments on other non-CERP programs to restore and protect the South Florida Ecosystem. <http://www.sfwmd.gov/sourcecontrols>

During the 2013 legislative session, the EFA was modified to incorporate the Restoration Strategies Regional Water Quality Plan, dated April 27, 2012, into the Long-Term Plan. Since the EFA and National Pollutant Discharge Elimination System permits and consent orders were issued in September 2012, five Restoration Strategies projects have been completed, five others

are ongoing, and 36 of 74 consent order milestones have been achieved 35 of them ahead of their deadlines. In 2013, the SFWMD also prepared a *Science Plan for the Everglades Stormwater Treatment Areas* to identify studies that investigate the critical factors that collectively influence ultralow treatment performance and phosphorus reduction in the STAs. Implementation of nine initial Science Plan studies is currently under way.

<http://www.sfwmd.gov/restorationstrategies>

As part of an ongoing effort to maximize water storage in the greater Everglades system, the SFWMD is continuing to partner with agencies and private landowners to bolster the Dispersed Water Management (DWM) Program. Detaining and retaining water on public and private lands is one tool to help reduce the amount of water flowing into Lake Okeechobee and/or discharged to the Caloosahatchee and St. Lucie estuaries during times of high water conditions throughout south Florida. This year, the SFWMD has led efforts to plan, implement or operate one (1) Florida Ranchlands Environmental Services Project, eight first solicitation Northern Everglades Payment for Environmental Services projects, eight second solicitation projects on ranchlands, two Water Farming Pilot Projects on fallow citrus lands and six large Public/Private projects under the NEPPP. Since its inception in 2005, the DWM Program's estimated average annual retention volume has grown to more than 64,000 acre-feet per year in Operation and Maintenance with an additional estimated average annual retention volume of over 314,000 acre-feet per year in the planning, design/permitting or construction phase. <http://www.sfwmd.gov/storage>

Restoration of the Northern and Southern Everglades is integral to the core mission of the SFWMD and several initiatives and construction projects are now underway to revitalize and protect the South Florida Ecosystem. The SFWMD's priority non-CERP South Florida Ecosystem restoration and protection projects for FY 2017-2018 include:

- Restoring the Kissimmee River and floodplain (in cooperation with the Corps) through construction, backfilling 22 miles of canal, recarving 9 miles of remnant river channel, rehydrating 25,000 acres of river floodplain, and a comprehensive ecological evaluation program. <http://www.sfwmd.gov/kissimmee>
- Implementing the C-111 South Dade Project which improves hydrologic conditions in Taylor Slough, its headwaters, the Rocky Glades and the eastern panhandle of Everglades National Park as well as to increases freshwater flows to northeast Florida Bay.
- Continuing implementation of the NEEPP and associated protection plans for the three northern watersheds (Lake Okeechobee, St. Lucie, and Caloosahatchee). <http://www.sfwmd.gov/northerneverglades>
- Continuing implementation of provisions in the EFA and Long-Term Plan including STA operation and optimization, regulation, managing invasive exotic and nuisance vegetation on SFWMD lands, and implementing cost-effective solutions to improve water quality treatment, reduce nutrient loads, and achieve water quality standards. <http://www.sfwmd.gov/sta>
- Updating and implementing regional water supply plans. <http://www.sfwmd.gov/watersupply>

- Operating and maintaining one of the largest flood control systems in the world that includes over 600 water control structures, 625 project culverts, over 70 pump stations, approximately 2,100 miles of canals, and 2,000 miles of levees.

The Florida Legislature also requires the SFWMD to: manage water and related land resources; promote conservation, development, and use of surface and groundwater for reasonable beneficial uses; manage dams, impoundments, and other "Works of the District" to provide water storage; prevent flood and soil erosion damage; and promote outdoor recreation on publicly owned lands.

In addition to ecosystem restoration projects, the SFWMD expends a significant amount of staff time and contract dollars toward implementation of restoration program support activities such as land management, control of invasive exotic plants and animals, environmental resource permitting, and intergovernmental coordination.

Section 4.0

Agency Contacts

The following individuals are designated as points of contacts concerning their agency information as provided in the Cross Cut Budget 2017 Working Document.

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