

# Chapter 5B: Alternative Water Supply Annual Report

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## INTRODUCTION

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Due to the limitations that exist on development of traditional freshwater sources within the South Florida Water Management District (SFWMD or District), regional water supply plans have concluded most future increases in water needs will be met primarily through development of alternative water sources and conservation. Alternative water sources include nontraditional water supplies, such as brackish groundwater, surface water captured during wet weather, and reclaimed water. The District's program to support development of Alternative Water Supply (AWS) projects has been successful for more than a decade. Since 1997, this program has approved \$190.9 million for the construction of 482 AWS projects.

In 2005, the Florida legislature revised state law and created the Water Protection and Sustainability Program (WPSP) [Chapter 373, Florida Statutes, (F.S.)], which established annually recurring state funding (that must be matched by the water management districts) to support AWS development. Pursuant to Chapter 373.707, F.S., legislation requires each water management district to submit an annual report to the Florida legislature and governor on AWS funding efforts. State and SFWMD matching funds are administered through the District's Alternative Water Supply Funding Program and are only available for construction. Since Fiscal Year 2009 (FY2009) (October 1, 2008–September 30, 2009), the legislature has not provided funding to the WPSP, though the District has appropriated ad valorem revenues for the program in FY2011, FY2012, and FY2013.

Prior to 2005, the District provided annual funding to entities pursuant to Chapter 373.707, F.S., which directed the water management districts to share their ad valorem tax revenues with public and private entities willing to develop sustainable alternative water resources. During the three years preceding the WPSP legislation (FY2003–FY2005), the District funded 79 projects with \$14.8 million that created 106 million gallons per day (mgd) of additional AWS capacity. From FY2006–FY2012, the District approved over \$166 million in funding (including WPSP funds, including carry forward amounts) for 292 projects that created over 430 mgd of additional alternative water capacity.

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## FISCAL YEAR 2013 PROJECT FUNDING

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Due to budget constraints at state and local levels, the State of Florida has not allocated funding for AWS projects in FY2013; however, the District has allocated \$1.6 million and the Big Cypress Basin Board has authorized \$1.21 million in their FY2013 budgets. In September 2012, the District's Governing Board approved \$1.45 million to fund five projects District-wide. In November 2012, the District's Governing Board will approve \$1.36 million for three AWS projects in the Big Cypress Basin. Together, these eight projects are designed to create an additional 7.25 mgd of alternative water supply capacity. **Table 5B-1** summarizes project details. Funding was awarded for construction that occurs from October 1, 2012–September 30, 2013.

Because many projects are constructed over several years, water made available was reported in two parts: (1) the quantity of water to be made available during this phase (by September 30, 2013) and (2) the total water made available upon project completion. Of the eight projects funded, three are multiyear projects and will require reapplication for funding in subsequent years for future phases if funds are available. Additionally, distribution/transmission capacity made available by reclaimed water pipelines and pump stations is not included in the water made available, as this capacity would have been counted during the treatment plant construction (see footnotes of **Table 5B-1**).

**Table 5B-1.** Overview of Alternative Water Supply projects for Fiscal Year 2013 (FY2013) (October 1, 2012–September 30, 2013).

Project Name	Entity Name	Alternative Water Source	Region	County	FY2013 Start Date	Phase Water Made Available (mgd)	Total Water Made Available (mgd)	FY2013 Construction Cost	SFWMD Funding
3.5 MGD Reclaimed Water Facility Phase II-C	Davie	Reclaimed	LEC	Broward	October 2012	3.50 <sup>b</sup>	3.50 <sup>b</sup>	\$2,327,170	\$430,000
Reclaimed Water Distribution System Expansion 2013	Pompano Beach	Reclaimed	LEC	Broward	October 2012	0.10 <sup>a</sup>	0.10 <sup>a</sup>	\$522,790	\$100,000
<b>Total for projects in Broward County</b>						<b>0.00</b>	<b>0.00</b>	<b>\$2,849,960</b>	<b>\$530,000</b>
Recycling of Membrane Concentrate for Reclaimed Water	Boca Raton	Reclaimed	LEC	Palm Beach	October 2012	4.25	4.25	\$1,350,000	\$250,000
Reclaimed Water System Area 12A Phase I	Delray Beach	Reclaimed	LEC	Palm Beach	October 2012	0.11a	5.71a	\$894,830	\$170,000
3.0 MGD Nanofiltration Concentrate Blending Pump Station and Reclaimed Water Main	Seacoast Utility Authority	Reclaimed	LEC	Palm Beach	October 2012	3.00	3.00	\$1,424,480	\$500,000
<b>Total for projects in Palm Beach County</b>						<b>7.25</b>	<b>7.25</b>	<b>\$3,669,310</b>	<b>\$920,000</b>
<b>Lower East Coast Total</b>						<b>7.25</b>	<b>7.25</b>	<b>\$6,519,270</b>	<b>\$1,450,000</b>
Reclaimed Water System Expansion – North of Central Avenue	Naples	Reclaimed	LWC	Collier	October 2012	*	*	*	\$150,000
<b>Lower West Coast Total</b>						<b>0.00</b>	<b>0.00</b>	<b>\$0</b>	<b>\$150,000</b>

Project Name	Entity Name	Alternative Water Source	Region	County	FY2013 Start Date	Phase Water Made Available (mgd)	Total Water Made Available (mgd)	FY2012 Construction Cost	SFWMD Funding
Aquifer Storage & Recovery (ASR) Well at Livingston Rd Ph II	Collier County Utilities	Surface Water	LWC-BCBB	Collier – BCBB	November 2012	2.00 <sup>a</sup>	2.00 <sup>a</sup>	\$1,042,050	\$308,000
Reclaimed Water Distribution System Expansion	Marco Island	Reclaimed	LWC-BCBB	Collier – BCBB	November 2012	2.00 <sup>b</sup>	5.00 <sup>b</sup>	\$1,450,000	\$300,000
Reclaimed Water System Expansion – North of Central Avenue	Naples	Reclaimed	LWC-BCBB	Collier – BCBB	November 2012	2.00 <sup>a</sup>	15.00 <sup>a</sup>	\$2,200,000	\$600,000
<b>Big Cypress Basin Board Total</b>						<b>0.00</b>	<b>0.00</b>	<b>\$4,692,050</b>	<b>\$1,208,000</b>
<b>GRAND TOTAL</b>						<b>7.25</b>	<b>7.25</b>	<b>\$11,211,320</b>	<b>\$2,808,000</b>

BCBB – Big Cypress Basin Board

<sup>a</sup> Distribution type project; water counted in plant capacity

<sup>b</sup> Phased project; water previously counted or will be in future years

\*Costs and water made available are captured under the BCBB project line