FY 2012-13 Local Government Funding Request

Project Name: Smathers Beach Renourishment

Project Description: (Should be consistent year to year with annual updates. Include county, location with reference to range monuments, brief project history and upcoming beach activities.)

The project consists of restoration and nourishment of 3,000 feet of critically eroded Atlantic shoreline located in Key West, Monroe County. Initial restoration of the project was in 2000 with the placement of 23,600 CY of sand. The remainder of the project length (4,600 CY) and the rebuilding of the 4 groins was completed in 2001. In July 2011 the City placed approximately 12,800 cubic yards of sand on the beach

The City truck hauls sand from a source approved by all permitting agencies. The sand size is a permit condition which helps facilitate turtle nesting and seagrass proliferation.

The City intends to regionalize with the State Division of Parks & Recreation for future beach renourishment projects.

<u>Use of Requested Program Funds:</u> Funds requested for FY 2012-13 will be used for monitoring and to secure a JCP permit

Local Government Support

Name	Title	Email	Percent Commitment
Janet Muccino	Project Manager	jmuccino@keywestcity.com	50%
Address 1:	P.O. 1409	Phone: 305 809-3867	
Address 2:	Key West, FL 33041	Fax: 305 809-3739	

Quarterly Report Compliance:

2010-2011	End Date	Report Sent	Compliant
Qtr 1 (Sept)	9/30/11	07/21/11	yes
Qtr 2 (Dec)	12/31/11	07/21/11	yes
Qtr 3 (Mar)	3/31/11	07/21/11	yes
Qtr4 (June)	6/30/11	07/21/11	yes

<u>Revenue for the local cost share will be provided by:</u> The City of Key West and the Monroe County Tourist Development Council_

Is the funding from a dedicated long term source for this project?	ves
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In order to acquire funding, a resolution from the local governmental entity must be provided by the application deadline which declares:

- Support from the Sponsor for the Proposed Project
- Willingness to serve as the Local Sponsor
- Ability to provide the full Local Cost Share
- Funding Source

Has the local sponsor resolution been attached to the application fulfilling all of these requirements?

No, the resolution is expected to be approved at an October 2011 City

Commission meeting

Previous State cost-share for a feasibility or design/permitting phase of this project:

The Department previously entered into a cost-share agreement for funding of the initial restoration in 1998 in 2007 for the July 2009 truck haul and July 2011 renourishment. The project is recommended in the Strategic Beach Management Plan and located in an area that has been designated as critically eroded shoreline by the Department.

Previous State Cost Share percentage	_50%
10-Year Project Schedule and 5-Year Estimated Budget	
Does this project have Congressional Authorization?	<u>no</u>
Does this project have a Federal Project Cooperative Agreement?	no
What is the end date of the Federal Authorization?	_n/a
Federal cost share available for this erosion control project:	no

Schedule and Budget (Include estimated phases for 10 years and estimated project costs for 5 years.):

Year	Proposed Method	Description	Total Estimated Cost	Federal Cost Share	State Cost Share	Local Cost Share
2012/ 2013	Monitoring/permit requirements/JCP Permit	Performance environmental	\$200,000	0.00	\$100,000	\$100,000
2013/ 2014	Monitoring/permit requirements/JCP permit	Performance ,environmental	\$100,000	0.00	\$50,000	\$50,000
2014/ 2015	Monitoring/permit requirements	Performance ,environmental	\$75,000	0.00	\$34,500	\$34,500
2015/ 2016	Renourishment/ Monitoring/permit requirements/construction oversight	nourishment	\$700,000	0.00	\$350,000	\$350,000
2016/ 2017	Monitoring/permit requirements/JCP Permit	Performance ,environmental	\$200,000	0.00	\$100,000	\$100,000
2017/ 2018	Monitoring/permit requirements/DEP Permit	Performance ,environmental				
2018/ 2019	Renourishment/Monitoring/permit requirements	Performance ,environmental				
2019/ 2020	Monitoring/permit requirements/DEP Permit	Performance ,environmental				
2020/ 2021	Renourishment/Monitoring/permit requirements	Performance ,environmental				
2021/ 2022	Monitoring/permit requirements/DEP Permit	Performance ,environmental				

Maps should be to scale at a minimum of 1"=200"							
Mapping elements include:							
2	□ Project Boundary with Critically Eroded Shoreline: see attached aerial						
□ Range Monuments : <u>n/a</u>							
		_	Primary and S	• .	•		
			for the publi				
		_	ing in the brid		the north sid	e of South	n Roosevelt
Blvd. The	beach is 10	0 percen	t open for pub	lic access.			
	~ ~		nts- locations	and length	of property b	oundaries	
a	long project	Shorelin	e:. <u>n/a</u>				
			ations of Com y boundaries a				S
OBJECTIVE 5-1			•	•	•		TATETAE
The City shall ma							
centers for shoreli		_					
through 5-6 of the							
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Coastal Managem							
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Policy 5-1.9.1: St		_				to implem	ent the
State DNR standa						_	
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Policy 5-1.9.2: Pu	ablic Access	to Reno	urished Read	hes. The sta	andard for pu	iblic acces	ss to
renourished beach							
and/or renourishe							
Management Plan (1990) characterized in the Comprehensive Data Inventory and Analysis, page 5-23 through 5-28.							
<u>5 25 timougn 5 20</u>	<u>/-</u>						
Length of Projec	t Boundary	in Feet:				3,000	
Zongen of Frojec	Doullauly				•	2,000	
Length of comm	ercial or rec	restions	al property fr	onting the	nroject shor	eline:	
Dength of comm	cretar or rec	ı catıon	ii property ii	onung the	project shor	3,000	
					•		
Percentage of project shoreline designated as commercial or recreational property							
100%							
Eligibility: Access Points and Public Lodging Establishments:							
Location/Name	Address	R-	Type of	Width of	Total	No.	Eligible
	- 1441 055	Mon	Access	Access/	units or	Public	shoreline
		1.1011	- 10000	Frontage	parking	1 55110	2.1.0.1 0.11110
				- 10111450	spaces		
n/a					- P		

Mapping- Maps are provided as attachments.

Additional Ranking Criteria

Will this project enhance or increase the longevity of a previously-	
constructed project?	_yes_
Will this project nourish a previously restored shoreline?	<u>yes</u>
Rate of Erosion as determined by the Bureau based on long term data (ft/yr)	2.8

Severity of erosion: Apart from erosion due to Hurricane events, the erosion/accretion trends for the projects since initial construction indicate that while much of the project area is stable, several segments have shown high rates of localized erosion, which require renourishment to maintain the project design dimensions.

<u>Project Benefits:</u> The renourishment benefits the local economy by attracting tourists and benefit locals by providing a beautiful beach. After beach renourishments there is an increase in sea turtle nesting.

<u>Use of Innovative Applications of existing technologies:</u> Smathers beach was specifically designed with four structures to maintain the entire 3,000 ft. span of beach area. Depending on the wave direction, wind direction, currents and flood, the beach was designed to act as a single system to provide protection. Sand is trucked in from an upland source to renourish the beach to the original design levels.

Nourishment Interval (years):

5

Project Performance: Smathers Beach was renourished in 2000 with approximately 23,600 cubic yards of sand and in 2001 the renourishment was completed with the placement of 4,643 cubic yards and the 4 groins were rebuilt. Approximately 875 CY of sand was placed on the beach in 2003. In January 2006 approximately 2,590 CY of sand was placed to rebuild berms damaged by the 2005 hurricane season. A survey of Smathers Beach in August 2007 the City survey determined 12,891 CY of sand was needed to maintain design dimensions. In July 2009, approximately 2,445 CY of sand was placed on the berm to replace sand lost as a result of the 2008 hurricane season; it was funded by FEMA. In June & July 2011 the city placed approximately 12,800 cy of sand on Smathers beach. Apart from the damage the beach has sustained due to storms & hurricanes, Smathers Beach continues to lose sand on an annual basis.