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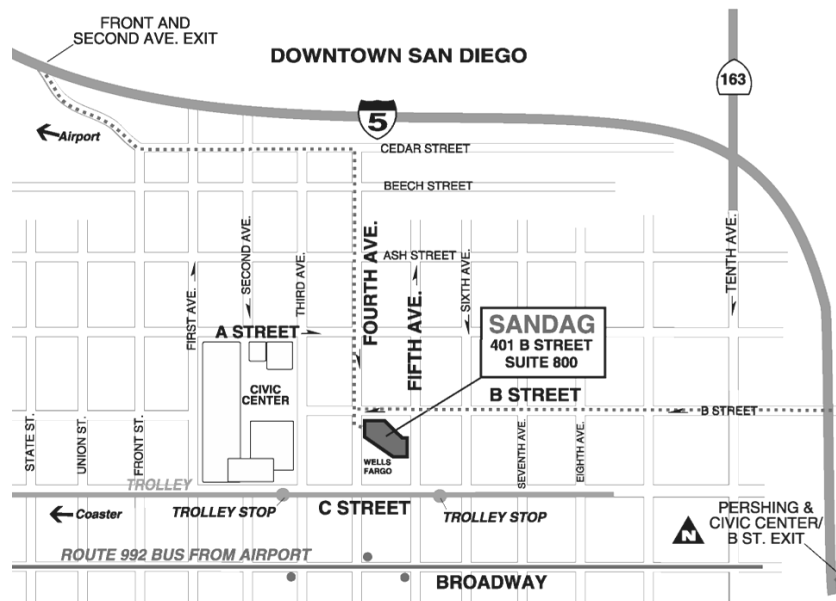
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SHORELINE PRESERVATION WORKING GROUP

Thursday, September 1, 2016

ITEM NO.

RECOMMENDATION

1. WELCOME AND INTRODUCTIONS

2. PUBLIC COMMENTS/COMMUNICATIONS

Members of the public shall have the opportunity to address the Shoreline Preservation Working Group (Working Group) on any issue within the jurisdiction of SANDAG that is not on this agenda. Anyone desiring to speak shall reserve time by completing a "Request to Speak" form and giving it to the meeting coordinator prior to speaking. Public speakers should notify the meeting coordinator if they have a handout for distribution to working group members. Public speakers are limited to three minutes or less per person. Working Group members also may provide information and announcements under this agenda item.

+3. APPROVAL OF MEETING MINUTES

APPROVE

The Working Group is asked to review and approve the minutes from its June 2, 2016, meeting.

REPORTS

+4. REGIONAL SHORELINE MONITORING PROGRAM FUNDING
(Sarah Pierce)

RECOMMEND

The Regional Shoreline Monitoring Program has been funded by the coastal cities since 1996. This comprehensive approach to monitoring the shoreline provides data that can document changes to the shoreline over time and provides important information to decision-makers when beach replenishment efforts are contemplated. The current monitoring efforts are funded through Spring 2017. The region's coastal cities are asked to recommend continuation of the Program.

5. REGIONAL SEA LEVEL RISE PLANNING PANEL DISCUSSION
(Carey Batha, California Coastal Commission; Nick Garrity, ESA for City of Del Mar; Chris Webb, Moffatt & Nichol for City of Carlsbad; David Revell, PhD, Revell Coastal for City of Imperial Beach)

INFORMATION

As our understanding of sea level rise advances, local efforts are underway to comprehensively plan for changes to coastal environments. This panel discussion will provide an overview of the California Coastal Commission's Sea Level Rise Policy Guidance and will highlight some of the sea level rise planning efforts underway in the cities of Del Mar, Carlsbad, and Imperial Beach.

6. UPCOMING MEETINGS

INFORMATION

The next meeting of the Working Group is scheduled for Thursday, December 1, 2016, from 11:30 a.m. to 1 p.m. Tentative Topic: potential biological impacts from beach nourishment.

7. ADJOURNMENT

+ next to an agenda item indicates an attachment

San Diego Association of Governments
SHORELINE PRESERVATION WORKING GROUP

September 1, 2016

AGENDA ITEM NO.: **3**

Action Requested: APPROVE

JUNE 2, 2016, MEETING MINUTES

File Number 3200200

The meeting of the Shoreline Preservation Working Group was called to order by Chair Serge Dedina (City of Imperial Beach) at 11:31 a.m.

1. WELCOME AND INTRODUCTIONS

The attendance sheet for the meeting is attached.

2. PUBLIC COMMENTS AND COMMUNICATIONS

There were no public or member comments.

3. APPROVAL OF MEETING MINUTES (APPROVE)

The working group was asked to review and approve the meeting minutes from its December 3, 2015, meeting.

Action: Esther Sanchez (City of Oceanside) motioned to approve the December 3, 2015, meeting minutes and Eileen Maher (Unified Port of San Diego) seconded the motion. The motion was approved without opposition.

Yes: Serge Dedina (City of Imperial Beach), Dave Roberts (County of San Diego), Esther Sanchez (City of Oceanside), Dwight Worden (City of Del Mar), Eileen Maher (Unified Port of San Diego), Michael Schumacher (City of Carlsbad), Bill Sandke (City of Coronado), Walter Wilson (U.S. Navy).

No: None. Abstain: None. Absent: City of Encinitas, City of San Diego, City of Solana Beach.

CONSENT

4. SHORELINE MANAGEMENT "101" (INFORMATION)

This report provided an overview of information to the Working Group on SANDAG Regional Shoreline Management, including the Working Group history, charter, Shoreline Preservation Strategy for the San Diego Region, Coastal Regional Sediment Management Plan, Sand Compatibility and Opportunistic Use Program, and the Regional Shoreline Monitoring Program.

REPORTS

5. REGIONAL SHORELINE MONITORING PROGRAM ANNUAL REPORT (Greg Hearon, Coastal Frontiers Corporation) (INFORMATION)

Greg Hearon provided the Working Group with a presentation on the 2015 Regional Shoreline Monitoring Program Annual Report.

6. EL NIÑO IMPACTS ON NOURISHED AND UNNOURISHED SOUTHERN CALIFORNIA BEACHES (Bonnie Ludka, PhD Candidate, Dr. Timu Gallien, and Dr. Robert Guza, UC San Diego) (INFORMATION)

An article titled "Mid-El Niño Erosion at Nourished and Unnourished Southern California Beaches" was recently accepted for publication by the American Geophysical Union. During the meeting, researchers from the Scripps Institution of Oceanography at UC San Diego shared their findings with the Working Group.

7. NEXT MEETING DATE AND ADJOURNMENT (INFORMATION)

The next meeting of the Working Group is scheduled for Thursday, September 1, 2016, from 11:30 a.m. to 1 p.m. Chair Serge Dedina (City of Imperial Beach) adjourned the meeting at 1:01 p.m.

**SHORELINE PRESERVATION WORKING GROUP
 MEETING ATTENDANCE FOR June 2, 2016**

JURISDICTION/ORGANIZATION	NAME	ATTENDING
City of Imperial Beach	Mayor Serge Dedina, Chair (Primary)	Yes
	Mayor Pro Tem Edward Spriggs (Alternate)	No
City of San Diego	Councilmember Lorie Zapf, Vice Chair (Primary)	No
	Council President Sheri Lightner (Alternate)	No
County of San Diego	Supervisor Dave Roberts	Yes
City of Carlsbad	Councilmember Michael Schumacher (Primary)	Yes
City of Coronado	Councilmember Bill Sandke (Primary)	Yes
	Councilmember Richard Bailey (Alternate)	No
City of Del Mar	Councilmember Dwight Worden (Primary)	Yes
City of Encinitas	Deputy Mayor Lisa Shaffer (Primary)	Yes
	Councilmember Tony Kranz (Alternate)	No
City of Oceanside	Councilmember Esther Sanchez (Primary)	Yes
	Deputy Mayor Chuck Lowery (Alternate)	No
City of Solana Beach	Councilmember Mike Nichols (Primary)	No
	Mayor Lesa Heebner (Alternate)	No
San Diego Unified Port District	Commissioner Garry Bonelli (Primary)	Yes
	Eileen Maher (Alternate)	Yes
United States Navy	Mitchell Perdue (Primary)	No
	Walter Wilson (Alternate)	Yes

ADVISORY MEMBERS LISTED BELOW (ATTENDANCE NOT COUNTED FOR QUORUM PURPOSES)		
California Coastal Commission	Gabe Buhr	Yes
National Marine Fisheries Service	Bryant Chesney	No
State Dept. of Boating & Waterways	Steve Watanabe	No
State Dept. of Fish and Wildlife	Loni Adams	No
State Department of Parks and Recreation	Darren Smith	No
State Lands Commission	Jane Smith	No
U.S. Army Corps of Engineers	Heather Schlosser	No
California Coastal Coalition	Steve Aceti	No
California Lobster and Trap Fisherman's Association	August Felando	No
Coastal Environmental Rights Foundation	Marco Gonzalez	No
Scripps Institution of Oceanography	Michele Okihiro	Yes
Southern California Tribal Chairmen's Association	Vacant	No
Surfrider Foundation	Julia Chunn-Heer	No

Other Attendees:

Leslea Meyerhoff, City of Solana Beach
 Mark Sabelis, City of Oceanside
 Kate Barba, Scripps Institute of Oceanography
 Jim Nakagawa, City of Imperial Beach
 Todd Mitchell, Fugro
 Greg Hearon, Coastal Frontiers Corporation
 Nick Buhbe, Great Ecology
 David Zoutendyk, US Fish and Wildlife Services
 Elaine Cunha, ESA
 Keith Corry, County of San Diego
 David Shug, AECOM
 Cindy Kinkade, AECOM
 Chris Webb, Moffat & Nichol
 Carl Stiehl, City of Carlsbad
 Timu Gallien, Scripps Institute of Oceanography

Katie Hentrich, SANDAG
 Keith Greer, SANDAG
 Rob Rundle, SANDAG
 Sarah Pierce, SANDAG
 Shelby Tucker, SANDAG

San Diego Association of Governments
SHORELINE PRESERVATION WORKING GROUP

September 1, 2016

AGENDA ITEM NO.: **4**

Action Requested: RECOMMEND

REGIONAL SHORELINE MONITORING PROGRAM FUNDING

File Number 3200200

Introduction

The Regional Shoreline Monitoring Program (Program) has been funded by the region's coastal cities since the Program was initiated by SANDAG in 1996. The annual cost of the Program is based on each jurisdiction's proportion of shoreline miles of sandy beach, excluding federal lands. The Program measures the changes in beach width over time, documents the benefits of sand replenishment projects, and helps to improve the design and effectiveness of beach fills. In addition to providing shoreline protection, wide sandy beaches are not only a desirable amenity for the public, but an economic driver for beach communities.

This comprehensive approach to monitoring the shoreline provides data that can document changes across the region's shoreline over time that could not be obtained by any one jurisdiction alone. The Program provides important information to decision-makers when beach replenishment efforts are contemplated and serves as a historical and baseline dataset for decision makers as they consider sea level rise adaptation measures. The results of the monitoring program have provided useful data to a variety of resource agencies, organizations, and jurisdictions in the San Diego region.

Recommendation

SANDAG staff recommends that the Shoreline Preservation Working Group recommend to the Regional Planning Committee and the Board of Directors the continuation of the Program based on the estimated costs shown in Attachment 1.

Discussion

The Program provides physical measurements of the region's beaches essential to the design and evaluation of efforts to manage the region's shoreline. Success of the Program depends on the continuation of the basic components. These components include beach monitoring (38 transects and biannual aerial photography) and lagoon entrance monitoring (closure and maintenance records and aerial photography). Consistency over time has allowed trends to be seen, which are used to plan projects such as the Regional Beach Sand Projects (RBSP I and RBSP II), as well as lagoon restoration and maintenance dredging. In addition, monitoring conducted as part of this Program is essential to understanding the longevity and effectiveness of beach sand nourishment projects in the region. Research conducted by Dr. Philip King from San Francisco State University indicates that beaches provide recreational opportunities and property protection, thereby providing significant

economic return for local jurisdictions.^{1,2} Data collected as part of this Program can be used to further evaluate the benefit cost ratios of such projects and serve as a tool to help planners craft sea level rise adaptation measures as part of local coastal program updates and climate adaptation plans.

Program Accomplishments

The Program has allowed staff to track the performance and longevity of beach fills associated with RBSP I and RBSP II. In addition, this 20-year data set has documented changes in the condition of the shorezone, thereby providing a basis for evaluating the impacts of natural events (such as El Niño) and human intervention (including beach nourishment, sediment bypassing, lagoon modification, shoreline/bluff armoring, and potential sediment retention structures that may be considered in the future). The monitoring results provide a quantitative basis for prioritizing erosion mitigation efforts, including locations and quantities of nourishment material and the potential implementation of living shoreline projects and sediment retention structures. Moreover, this data has helped to provide an understanding of coastal processes and the overall state of the region's coastline to residents, city staff, and local leadership.

Cost

Currently the Program is funded through the end of Fiscal Year (FY) 2017. The estimated cost of the Program for FY 2018 is \$134,154.00, which would be proportionately broken down by each coastal jurisdiction based on miles of shoreline as shown in Attachment 1. This methodology for funding has been used for the last five years of the Program. As noted in Attachment 1, this estimated cost would be expected to increase by approximately 3 percent per year due to inflation. Exact funding would be based upon a negotiated bid with a qualified contractor.

Next Steps

If continuation of the Program is approved, SANDAG staff will begin the contract procurement process in FY 2017. The goal is to have the consultant team chosen by the beginning of FY 2018 so monitoring could begin in Fall 2017 to avoid any gaps in the data. Staff is recommending that the same funding formula shown in Attachment 1 be used for the development of a new five-year contract.

Attachment: 1. FY 2018 Estimated Regional Shoreline Monitoring Program Cost

Key Staff Contact: Keith Greer, (619) 699-7390, keith.greer@sandag.org
Sarah Pierce, (619) 699-7312, sarah.pierce@sandag.org

¹ King et al. The Economic Costs of Sea-Level Rise to California Beach Communities.
<http://www.dbw.ca.gov/PDF/Reports/CalifSeaLevelRise.pdf>

² SANDAG. 2007. Feasibility Study San Diego Regional Beach Sand Replenishment Project.

FY 2018 Estimated Regional Shoreline Monitoring Program Cost

Jurisdiction	Shoreline (miles)	% of Total	Estimated FY 18 Cost ^{1,2}
Carlsbad	6.5	14.90%	\$19,989
Coronado	3.1	7.10%	\$9,525
Del Mar	3	6.90%	\$9,257
Encinitas	5.8	13.30%	\$17,843
Imperial Beach	2.7	6.20%	\$8,318
Oceanside	3.6	8.30%	\$11,135
San Diego	17.3	39.80%	\$53,393
Solana Beach	1.5	3.50%	\$4,695
Total	43.5	100%	\$134,154

Notes:

1. Total cost estimate includes beach transect monitoring and lagoon entrance monitoring.
2. Costs are expected to increase 3% per year over the duration of a five-year agreement.