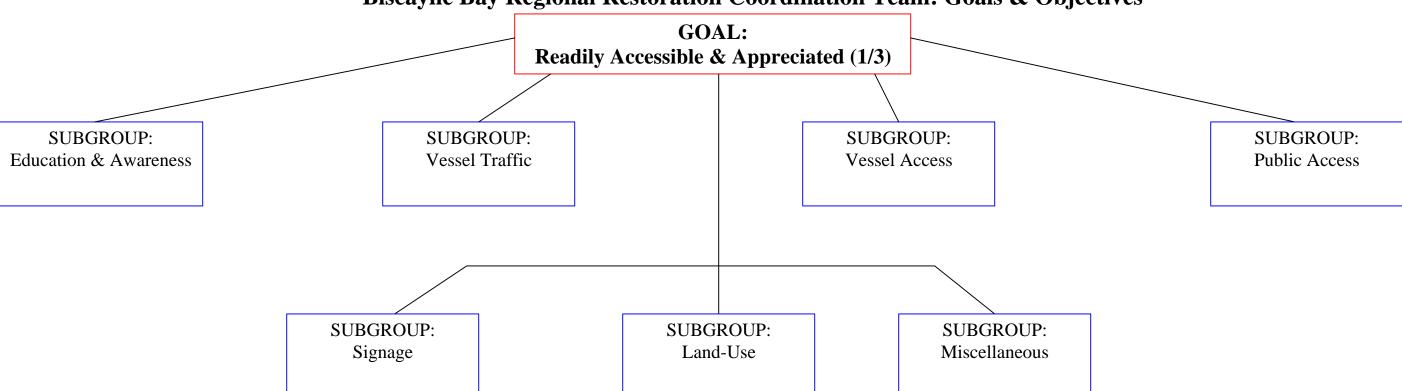
EXHIBIT E
Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives



Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

GOAL:

Readily Accessible & Appreciated (2/3)

SUBGROUP:

Education & Awareness

ISSUES:

- 1. Lack of interest (1)
- 2. Lack of appreciation (2)
- 3. Lack of education (3)
- 4. Lack of coordination (4)
- 5. Lack of funding (5)

OBJECTIVES:

- 1. Expose 100% of (A) (S) ONGOING-GOAL IS TO EXPOSE 100% elected officials and (B) (M) ONGOING-GOAL IS 25% OF OVERALL
- POP.agency representatives and 25% of general population to how Biscayne Bay is aesthetically, environmentally, and economically valuable within the next 1-3 years. (1)
- 2. Develop an appreciation campaign to reach (A) (M) DIRECT USERS TARGET IS 50% 50% of direct users of the Bay and (B) (M) WORK WITH INDUSTRY EXPERTS THAT VISIT FLORIDA GMCUB(?) 25 % of tourists / tourist industry within 3-10 years. (2)
- 3. Develop educational activities and outreach methods for (M) 25% of tourists/tourist industry and (M) FOR 2ND TO 6TH GRADE 25% of teachers / educators / students within 3-10 years. (3)
- 4. Coordinate existing education 3RD TO 6TH GRADE UPPER ELEMENTARY and outreach to leverage resources for (A) (M) 75% of agency representatives and (B) (M) 25% OF 3-6TH GRADE teachers / educators within 3-10 years. (4) 5. (L) IMMEDIATE NEEDS POSSIBLE USE TAX? POSSIBLE NON CONSUMPTIVE USES Establish a dedicated and consistent funding source for education outreach / access for \$SEVERAL

MILLION within NEXT 3 years. (5)

SUBGROUP: Vessel Traffic

ISSUES:

- 1. Lack of Biscayne Bay boater license (1)
- 2. Vessel impacts to natural resources (2)
- 3. Lack of enforcement (3,4)
- 4. Lack of management and regulation of vessel traffic (5)

OBJECTIVES:

- 1. (S) VIA 3RD PARTY VENDEREstablish boat licensing for Biscayne Bay within NEXT 3 YEARS years. (1) AND LINKED TO:
- 2. (S) CAMPAIGN CAN BE DONE VIA LICENSING Implement boater education campaign about impacts to natural resources from boating and consequences to the violator within NEXT 3 YEARS years. (2)
- 3. (S) POSSIBLE REVENUE VIA LICENSING Establish a dedicated and consistent funding source to increase enforcement by \$xx,xxx,xxx within x years in order to decrease the number of violators within NEXT 3 YEARS years. (3)
- 4. (M) Develop a Biscayne Bay enforcement strategy for all agencies with existing jurisdiction to achieve regulatory coordination within 3-10 years. (3)
- 5. (M) BEING DONE -TAKING 5 YEARS

Review BBPI regulation inventory to develop a management plan for different Bay uses to provide recommendations for new rules and/or zones

• • • • • • • •

SUBGROUP: Vessel Access

ISSUES:

- 1. Lack of data on vessel (all types) access to the Bay and perceived shortage of dry stack marina or boat storage (1)
- 2. Appropriate sitting for vessel access, storage, and anchorage (2)
- 3. Cost of storage and access (3)

OBJECTIVES:

- 1. (S) BEING DONE Conduct a current and historical vessel wet and dry slips inventory and analysis within NEXT 3 YEARS years. (1)
- 2. NEEDS MORE INFORMATION FOR TIME TABLE Fully implement rules and guidelines for facility sitting while deleting allowances for variances. (2) CHECK THE STATUS OF MIAMI DADE BOAT FACILITY SITING PLAN OF COMP PLAN
- 3. (M) ADJUST COST TO MARKET VALUE Utilize Biscayne Bay economic survey to assess cost of storage and access. WITHIN NEXT 3-10 YEARS (3) HAVE COUNTY ADJUST STORAGE COSTS TO FAIR

SUBGROUP: Public Access

ISSUES:

- 1. Availability of low-income access (1,2,3)
- 2. Lack of physical access to the Bay (1,2,3,4)
- 3. Lack of visual access (1,2,3,4)
- 4. Lack of enforcement of public access requirements by municipalities (1,4)
- 5. Lack of public transportation to the Bay and barrier islands (2,3)

OBJECTIVES:

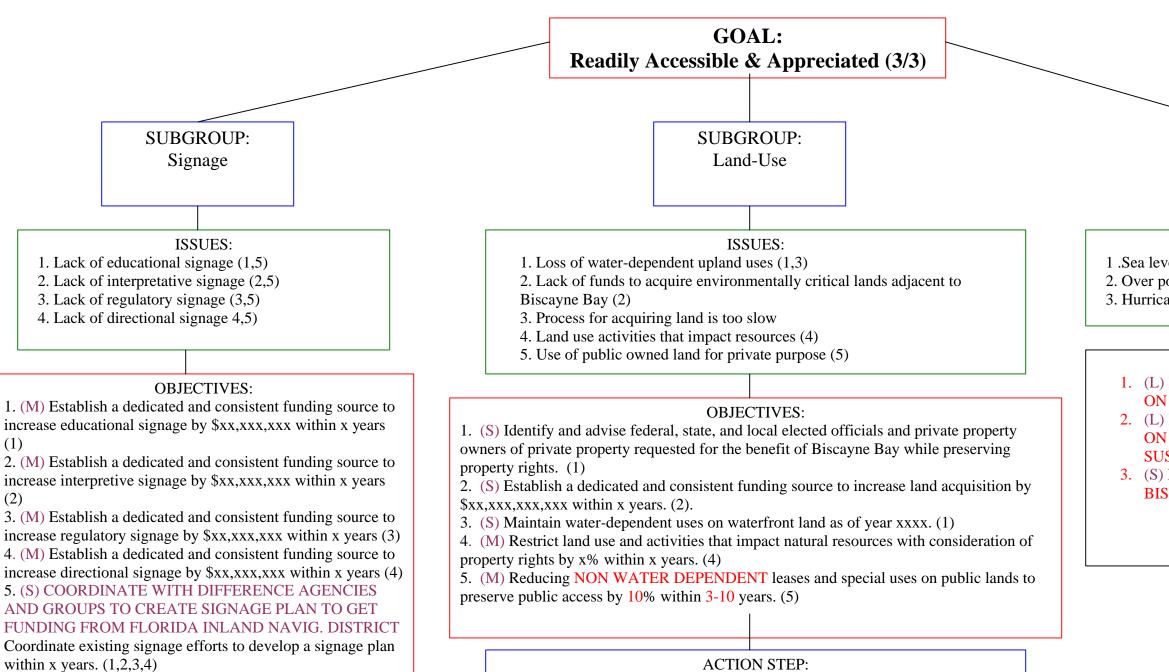
- 1. (M) Reduce issuance of variances and exceptions to public access requirements for new shoreline developments. (1,2,3,4)
- 2. (S) Improve Bay (physical and visual) access for 5 target audiences by utilizing the BB Strategic Access Plan. (1,2,3,5)
- 3. (S) Establish a dedicated and consistent funding source to increase access by \$xx,xxx,xxx within x years. (1,2,3,5)
- 4. (M) Ensure existing regulation designed to protect physical, visual, and public access to the shoreline are fully utilized. (2,3,4)

EXHIBIT E Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

1. Timely move the passage of a bond issue for the purchase of private property. 2. Use the analysis of water quality impacts of varying land uses that will be

generated by the South Miami Dade Watershed Plan to guide decisions made by

the BBRRCT for future project recommendations.



SUBGROUP: Miscellaneous

ISSUES:

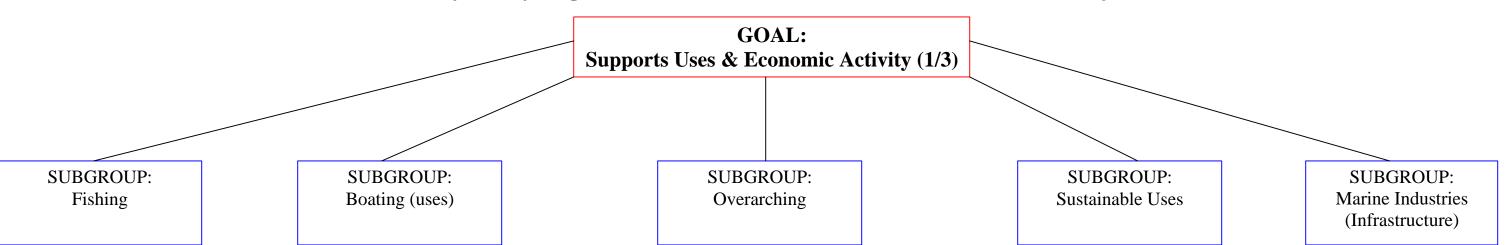
- 1 .Sea level rise
- 2. Over population and sustainability
- 3. Hurricane preparation

OBJECTIVES

- 1. (L) IMPLEMENT BBPI RECOMMENDATIONS ON SEA LEVEL RISE.
- 2. (L) IMPLEMENT BBPI RECOMMENDATIONS ON OVERPOPULATION AND **SUSTAINABILITY**
- 3. (S) DETERMINE CARRYING CAPACITY OF BISCAYNE BAY.

COORDINATE WITH "FIND"

EXHIBIT E
Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives



Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

GOAL: Supports Uses & Economic Activity (2/3)

SUBGROUP: Fishing **ISSUES:**

- 1. Sustainability and quality of recreational fishing North and South Bay (1,2,3,4,6,8)
- 2. Commercial and recreational fishing impacts including damage to hard bottom communities and other habitats, and fish communities and population (1,2,3,4,5,6,7,8)
- 3. Viability and sustainability of commercial fishing (1,2,3,4,5,6,8)
- 4. Allocation of fisheries resources commercial vs. recreational (1,2,3,4)
- 5. Lack of current information on issues 1-4

OBJECTIVES:

- 1. (L) LONG TERM FISH POPULATION Restore 100% sustainable native fish populations by 2013. (1,2,3,4)
- (L) LONG TERM FISH POP. Restore 100% native fish population diversity by the year 2013. (1,2,3,4)
- (L) MAY TAKE LONGER (15 YEARS) Increase size of fish to historical size frequencies by the year 2018 (1,2,3,4)
- (M) EDUCATIONAL LEGISLATIVE, BEHAVIOR CHANGES Reduce 100% incidental by-catch BY THE YEAR 2008 (1,2,3,4)
- (M) Optimize 100% commercial harvest BY THE YEAR 2010.(2,3)
- (M) Increase 100% use of sustainable fishing techniques and practices BY THE YEAR 2008 (1,2,3)
- (L) WAIT UNTIL FISH COME BACK 2013 AND BEYONDIncrease 100% environmentally knowledgeable employment in commercial / recreational fishing and related industries BY THE YEAR 2013.(2)
- (S,M.,L) ONGOINGIncrease environmental awareness in fishing and related industries BY THE YEAR 2006 AND ONGOING (1,2,3)
- (S,M,L) ONGOING NEED TO KNOW DATA TO MEASUREImprove fishing harvest and effort information BY THE YEAR 2006 AND

ACTION STEP:

- 1. Quantify recreational catch and effort throughout the Bay. (9)
- 2. Review commercial catch and effort data collection methods and if necessary, make recommendations to improve database for evaluating status of stocks, trends overtime, ect., specifically for Biscayne Bay. (9)

SUBGROUP: Boating (uses)

ISSUES:

- 1. Boating safety (accidents, fatalities) (1,2,3,4)
- 2. Impacts of recreational vessels (traffic, ecological impacts) (1,2,3,4,5)
- 3. Impacts of commercial vessels (traffic, ecological impacts) (2,3,4,5)
- 4. Conflicts between recreational and commercial vessels (3,4,9)
- 5. Boat maintenance facilities (unmet needs, environmental impacts) (4,5,6)
- 6. Restrictions due to port security (7.8)
- 7. Boating debris and waste (including bilge pumping) (1,4,5)
- 8. Increasing number of vessels on the water in Miami-Dade County (1,2,3,4,5,6,7,8,9)
- 9. Inappropriate and environmentally damaging boat anchorages (1, 4, 10)

OBJECTIVES:

- Increase adherence to boating laws and regulation (M, L) MEASURE REDUCTION IN ACCIDENTS/FACILITIES-REDUCE LACK OF COMPLIANCE TO LAWS AND REGS GIVEN MAINTAINED LAW ENFORCEMENT EFFORT BY 20% BY THE YEAR 2005 AND 50% BY 2008. (1,2,7)
- (M, L) DESIGN BOATS DIFFERENTLY, SIGNAGE AND EDUCATION Decrease groundings and propeller scars BY 50% BY THE YEAR 2008 AND 100% BY 2013 AND ONGOING.
- (M) EDUCATION AND ENFORCEMENT- CHANGE AWARENESS Decrease boating casualties (human & manatees) BY 50% BY 2008 AND 100% BY 2013.(1,2,3,4)
- (S,M,L) YOUTH AND ADULTS Increase level of boater education BY 2006 AND ONGOING (1,2,3,4,5,7)
- (S,M,L) Decrease debris from boaters including derelict boats BY 50% BY 2007, 100% BY 2010 AND ONGOING (2,3,5,7)
- (M) CHANGE IN ZONING OF COASTAL PLANS Increase number of boating facilities BY 2003 (5)
- (M,L) REGULATION/EDUCATION Balance security and impact on boater experience BY 2008 AND ONGOING (6)
- (S) (2006) Minimize commercial delays DUE TO INCREASED SECURITY BY 2008. (6)
- (M) Decrease RESOLVE AND PREVENT conflicts between recreational and commercial use BY 2008 (4)
- (M,L) Decrease damage from boat anchorages. BY 50% BY 2008, 100% BY 2013 AND ONGOING (9)

SUBGROUP: Sustainable Uses

ISSUES:

- 1. Adequacy of national, state and local parks (including facilities and maintenance) (1,2,3,4,5,6,7,9,10,11,12,13,14,15)
- 2. Inadequate Eco-tourism (1,2,4,5,6,7,8,9,10,11,12,13,14,15)
- 3. Environmentally responsible recreational uses (1,2,3,4,5,6,7,8,9,10,11,12,15)
- 4. Need to optimize socio-economic value of historical resources of the Bay (displaying, marketing) (4,6,8,12,13,14)
- 5. Loss of historic preservation (1,2,7,10,12,13,14)
- 6. Need for coordinated marketing like "Discover Tampa Bay" (9,11,12,13,14,16)

OBJECTIVES:

- BUY LAND/BISCAYNE BAY COASTAL WETLANDS PARK NEED TO REWORK THIS OBJECTIVE Increase size and number of parks (1.2.3.5)
- (S.M,L ADVERTISING, EDUCATION AND MARKETING) Increase number of visitors to parks BY 25% BY 2007 AND 50% BU 2010. (1,2,3,5)
- (S,M,L ADVERTISING, EDUCATION AND MARKETING) Reduce negative impacts of park visitors BY 50% BY 2006 AND ONGOING (1.3)
- (S,M,L ADVERTISING, EDUCATION AND MARKETING) Increase number of scuba/snorkel activities BY 25% BY 2007, 50% BY 2010.(1,2,3,4)
- (S,M,L ADVERTISING, EDUCATION AND MARKETING) Increase value of eco-tourism BY 25% BY 2007, 50% BY 2010. (1,2,3)
- (S) Increase employment in eco-tourism BY 25% BY 2007, 50% BY 2010. (1,2,3,4)
- (S) Increase eco-tourism facilities BY 25% BY 2007, 50% BY 2010. (1,2,3,5)
- (S) Increase number of trips via water-taxi in appropriate locations BY 25% BY 2007, 50% BY 2010. (2,3,4)
- (S) Increase kayak/canoe sales/rentals BY 25% BY 2007, 50% BY 2010. (1,2,3,6)
- (S) Increase opportunities for observing wildlife BY 25% BY 2007, 50% BY 2010. (1,2,3,5) 11. (S) USE BIODEGRADEABLE Increase number of environmentally friendly food/drink
- establishments near the water BY 25% BY 2007, 50% BY 2010. (1,2,3,6)
- (M) INCREASE FACIITIES Increase opportunities for cultural/historical experiences BY 25% BY 2007, 50% BY 2010. (1,2,3,4,5,6)
- 13. (M) Increase number of visitors to cultural/historical sites BY 25% BY 2007, 50% BY 2010.
- 14. (M) Increase historical signage BY 25% BY 2007, 50% BY 2010. (1,2,4,5,6)
- 15. (M,L)Increase boating opportunities SUSTAINABLE BY 50% BY 2010 (1,2,3)
- 16. (S) Assure Biscayne Bay activities are included in convention and visitors bureau promotional

ACTION STEP:

1. Create comprehensive gulidebook/sourcebook for user groups (5,6,9,10,12,13,16)

SUBGROUP: Marine Industries (Infrastructure)

ISSUES:

- 1. Gentrification of the working waterfront (1,2,4)
- 2. Impacts of ports and waterways projects (including blasting, dredging and expansion) (5)
- 3. Use of waterfront land for non-water dependent activities (1,2,3,4)
- 4. Impact of marine facilities (3,6,7)
- 5. Inadequate port security (3,8,9)
- 6. Loss of employment in boating and marine industries (2,4)

OBJECTIVES:

- 1. (S,M,L) Increase, or no net loss of, waterfront land for marine industry BY 2006 AND ONGOING (1.3)
- (S,M,L) Increase employment opportunities in marine and boating industry BY 2007 15%, 25% BY 2010.(1,3,6)
- (M,L) Increase efficiency and contiguity of deep and shallow water port areas BY 10% BY 2008
- 4. (S,M,L) ASAP-LAWS Decrease non-water dependent uses on waterfront land BY 5% BY 2006 AND ONGOING (1,3,6)
- (S,M) USE BETTER TECHNOLOGY Decrease negative impacts from dredging BY 2005 100%. (2,4)
- 6. (S.M.L) CLEAN MARINA Increase use of environmentally protective boat maintenance techniques 100% BY 2005 (4)
- 7. (M) Improve sewer infrastructure for ports and marine facilities 50% BY 2008, 100% BY 2013.(4)
- (S) Increase ability to monitor 100% BY 2006.(5)
- (S) Increase enforcement resources 100% BY 2006.(5)

Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

GOAL: Supports Uses & Economic Activities (3/3)

ACTION STEP:

- 1. Create process and identify funding to remove derelict vessels (5)
- 2. Create guidelines for suitable boat anchorage. (10)
- 3. Provide mooring bouys for boat anchorage in appropriate locations. (10)
- 4. Enact and enforce guidelines and regulations for anchoring (10)

SUBGROUP:

Overarching

ISSUES:

- 1. Regulatory constraints and ensuring compliance
- 2. Adequacy of enforcement (1,2,3,5)
- 3. Hurricane preparation (bridge closures, safety) (5,8)
- 4. Land use conflicts (1,4,7,9)
- 5. Impacts of watershed development (1,4,7,9)
- 6. Balance between economic benefits and environmental quality (9)
- 7. Impacts of population growth (1,4)
- 8. Pollution (1,2,4,5)
- 9. Storm water and associated debris (1,4,5)
- 10. Water clarity (1,2,4)
- 11. Sewage spills and discharges (1,2,4)
- 12. Study user group impacts on Bay (boating, fisheries, marine infrastructure, ect.)

OBJECTIVES:

- 1. Decrease debris from land sources (1.4.5.7.8.9.10.11)
- 2. Decrease beach closures (1,8,10,11)
- 3. Increase dedicated funding from marine law enforcement returned to Bay and users (1,2)
- 4. Improve sewage infrastructure (4,5,7,8,9,10,11)
- 5. Increase knowledge of rules and regulations (1,3,7,8,9)
- 6. Increase enforcement (2)
- 7. Acquire coastal and watershed lands (4,5)
- 8. Increase environmentally friendly mooring facilities (3)
- 9. Ecologically and economically balanced coastal and watershed zoning/development (4,5,6)
- 10. 12. Phase out economic activities with negative Bay impacts that can't be mitigated or minimized. (6)

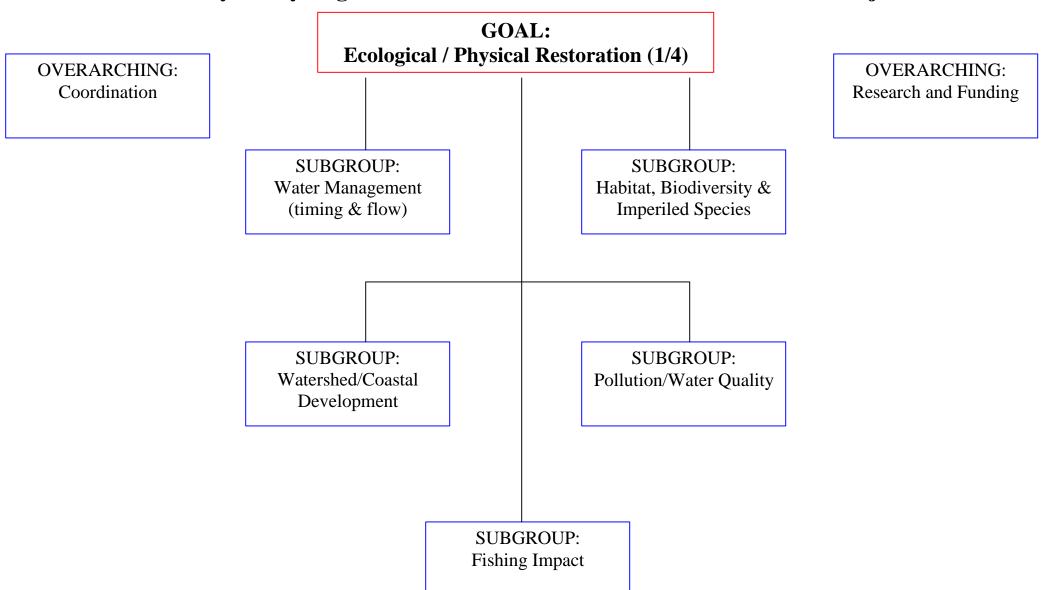
ACTION STEP:

1

ACTION STEP:

BBRRCT Chart: Goals and Objectives REVISED AFTER DECEMBER 12, 2003 MEETING

EXHIBIT E
Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives



Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives GOAL:

Ecological / Physical Restoration (2/4)

Overarching

SUBGROUP: Coordination

ISSUES:

- environmental restoration
- CERP
- coordination with BBCW project
- effects of CERP project on Bay
- unknown results of Everglades restoration effort
- national, state, local parks
- there needs to be more private sector involvement with restoration

NONE WERE ADDRESSED

OBJECTIVES:

- 1. reduce duplication, eliminate "gaps" and resolve conflicts among agencies and groups by securing formal approval/agreement before project implementation
- 2. increase the profile of Biscayne Bay in CERP

SUBGROUP: Resources & Funding

ISSUES:

- resource management
- funding of water quality monitoring
- securing funding for restoration work is critical to maintain momentum
- Bay studies (economic / scientific)

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NONE WERE ADDRESSED

OBJECTIVES:

1. Secure funding support to implement Biscayne

BBRRCT Chart: Goals and Objectives REVISED AFTER DECEMBER 12, 2003 MEETING

Riscavne Bay Regional Restoration Coordination Team: Goals & Objectives

SUBGROUP: Pollution/Water Quality

GOAL:

Ecological / Physical Restoration (3/4)

Land Based ISSUES:

- 1. Contaminated sediments in canals
- 2. Presence and inputs of toxics, EPOCs, and contaminants to the Bay
- 3. Quality of grondwater inputs to the Bay
- 4. Nutrient loads to the Bayu
- 5. Effects of canal discharge on Bay health
- 6. Lack of water quality standards
- 7. Effects of waste water reuse (CERP, WRPP) on ecology and health of the Bay ecosystem
- 8. Impacts from landfills
- 9. Effects of air pollution on water quality
- 10. Bacteriological contamination
- 11. Run-off from land-based sources; non-point source pollution
- 12. Point-source pollution
- 13. Impacts from degraded infrastructure
- 14. Turbidity
- 15. Effects of canal and river dredging
- 16. Effect of TMDLs on water quality
- 17. Lack of applicable/appropriate methodologies and indicators to address tropical and subtropical water and sediment qualities

Land Based OBJECTIVES:

- 1. (S) LITERATURE-1 YEAR WORK, 1 YEAR REPORT Assess and evaluate the applicable/appropriate methodologies and indicators to address tropical & subtropical water and sediment qualities and adjust methodology accordingly (predecessor to Objective #3) (1,2,4,5,6,10,12,15,16,17) BY DECEMBER 31, 2006.
- 2. (S) FUNDING SUPPORT BY BNP & ENP SECURED FOR NEXT YEAR (SOME) Develop and adopt water quality standards toxics, EPOCs, heavy metals, nutrients, bacteriological and other contaminants for the restoration of Biscayne Bay as defined by biological requirements of native flora and fauna by Dec. 31, 2006 (*Issues*)
- 3. (L) 10 YEAR AFTER ADOPTION OF THE STANDARDS Reduce inputs of toxics, EPOCs, heavy metals, nutrients, bacteriological and other contaminants from groundwater and surface water to the Bay by 10% per year until water quality standards are met BY DECEMBER 31, 2016 (Issues 1.2.3.4.5.6.8.10.12.14.15.17)
- 4. (L) Reduce contaminated sediments in canals by 80% by the year 2020 (Issues 1,2,5,12,15,17)
- 5. (S) DEPENDENT ON GOVERNING BOARD (SFWMD) DECISIONS Develop and implement a comprehensive BMP program to minimize stormwater runoff, point and non-point source pollution by Dec. 31, 2005 (*Issues 1,2,3,4,5,8,10,11,12,13,14,16*)
- 6. (L) Develop a regulatory program to implement and enforce the above-OBJECTIVES 1-5 BY DECEMBER 31, 2016. (Issues 1,2,4,5,8,10,11,12,13,14,15,16,17)
- (S) BASED ON WATER RESUSE PDT (PILOT STUDY) Evaluate impact of waste water reuse on wetlands of Biscayne Bay by Dec. 31, 2004. (Issues 2,4,7,10)
- 8. (M)Evaluate the potential impacts of air pollution and air deposition by 2005 ON WATER QUALITY BY 2013 (Issue 9)
- 9. (M) Evaluate impacts from degraded infrastructure (OLD SEWERS AND STORMWATER SYSTEMS) and address necessary upgrades by 2010 (Issues 2,4,10,12,13)
- 10. (S) DEPENDENT ON SFWMD GOVERNING BOARD DECISIONS Minimize impacts from canal and river dredging to water quality via implementation of a BMP program BY DECEMBER, 2005 (Issues 1,5,14,15)

Marine Based ISSUES:

- 1. Cruise ship pollution (debris/oil/fuel discharges)
- 2. Pollution from users/boats (debris/oil/fuel discharges)
- 3. Clean marinas
- 4. Potential for damaging anchorages if approved are too costly (?)
- 5. Marine debris in the Bay
- 6. Trash on shoreline
- 7. There is no organized effort to continuously keep the Bay clean
- 8. Effects of bay and ocean dredging
- 9. Port expansion / ocean blasting

Marine Based OBJECTIVES:

- (Note: issue #4 not addressed / understood)
 - 1. (S) ESTABLISH A 2004 BASELINE OF TRASH, AND MARINE DEBRIS BY 12/31/04.
 - 2. (M) Eliminate 100% 70% of 2004 BASELINE OF trash and marine debris from natural environment and surrounding shoreline by Dec. 31, 2010 (*Issues 1,5,6,7*)
 - 3. (S) ESTABLISH A 2004 BASELINE OF EXISTENCE AND LEVELS OF CRUISE SHIP POLLUTION FROM DISCHARGES (BILGEWATER, DEBRIS, OIL/GAS, ANTI-FOULING AGENTS, WASTEWATER) BY 12/31/2004.
 - 4. (M) (Determine existence and level of ELIMINATE 100% 70% OF 2004 BASELINE POLLUTION BY cruise ship pollution from discharges (bilge water, debris, oil/gas, anti-fouling agents, wastewater) Dec. 31, 2010) (Issues 1,5,7,
 - (S) ESTABLISH A 2004 BASELINE LEVEL OF POLLUTION FROM USERS/BOATS BY 12/31/2004.
 - 6. (M) Determine the level ELIMINATE BY 70% 2004 BASELINE POLLUTION FROM USERS/BOATERS BY Dec. 31, 2010. (Issues 2, 5,6)
 - 7. (S) ESTABLISH A BMP PROGRAM BY 12/31.2004 TO Minimize impacts from Bay and ocean dredging to water quality via implementation of a BMP program (*Issue 8*)
 - 8. (S) ESTABLISH A BMP PROGRAM BY 12/31.2004 TO Minimize impacts from Bay and ocean blasting (ie port expansion) to water quality via implementation of a BMP program (*Issue 9*)

Pollution (Land Based)
PROPOSED ACTION STEPS:

1. Establish a baseline water quality (*Objective 2*)

Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

PURPLE FONT INDICATES NOT ADDRESSED AT THIS MEETING

SUBGROUP: Watershed/Coastal Development

GOAL: Ecological / Physical Restoration (4/4)

ISSUES:

- 1. Land-use conflicts
- 2. Permitting regulations (eg: longevity, changes in use, increases in intensity, mitigation)
- 3. Lack of permit enforcement
- 4. Coastal construction (ie setbacks, practices...)
- 5. Effects of increased amounts of impervious surfaces from coastal development on Bay ecosystem
- 6. Coastal armoring (seawalls, groins)
- 7. Impact of sea-level rise on Bay ecology
- 8. Loss of natural habitat due to development

OBJECTIVES:

- 1. (S) DEVELOP LAND Ensure conservation PLAN of 100% of land necessary for Biscayne Bay restoration INCLUDING INCREASED ACREAGE OF NATURAL HABITAT LANDWARD OF SHORELINE TO MAINTAIN OPTIMAL ESTUARINE PRODUCTIVITY by 2006. (Issue 1, 7.8)
- 2. Achieve 100% compliance with permitting for coastal development (*Issues 2,3*)
- 3. (S) Eliminate coastal development permits issued with variances to regulations(*Issue 2*)
- 4. (S) All EXISTING AND FUTURE permits issued should be ARE consistent with Biscayne Bay Aquatic Preserve Act and rules BY 12/31/2004 (Issue 2)
- 5. (M) Reduce negative impacts of coastal construction (*Issue 4*)
- 6. (S) Minimize NO net increase in impervious surfaces of development and redevelopment in Biscayne Bay watershed STARTING IN 2006 (*Issue 5*)
- 7. (S) No net increase in coastal armoring STARTING IN 12/31,2004 (Issue 6,8)
- 8. (M) Increase the acreage of natural shoreline BY 20% BY 2010. (Issue 6,7,8)
- 9. Increased acreage of natural habitat landward of shoreline to maintain optimal estuarine productivity (*Issue 7*,8) NOW COMBINED WITH #1
- 9. (S) No net loss of natural habitat due to development STARTING IN 12/31, 2004(Issue 8)

Coastal Development

THESE ITEMS WERE MOVED OUT OF OBJECTIVES AREA, TO BE DETERMINED WHAT THEY ARE AT A LATER TIME

- 1. moratoria (*Objective 1*)
- 2. move UDB (*Objective 1*)
- 3. increase enforcement effectiveness (*Objective 2*)

SUBGROUP:

Fishing Impact

ISSUES:

- 1. Over-fishing/Species Stock Declines
- 2. Fisheries conservation
- 3. Changes in species demographics
- 4. Changes in community structures
- 5. New target species
- 6. By-catch

OBJECTIVES:

- 1. Obtain reasonable understanding of ecology and population dynamics for target species.
- 2. Define sustainable take for all species (see chart) (1,2,5)
- 3. Complete Fisheries Management Plan for BNP by December 31, 2004. (1,2,5)
- 4. Complete Fisheries Management Plan for the rest of Biscayne Bay (including Barnes Sound) by December 2008. (1,2,5)
- 5. Develop and implement commercial and recreational fisheries regulations to protect habitat and reduce by December 31, 2009. (1,2,3,5,6)

Fishing Impact: ACTION STEPS:

- 5. Continual (time series) of temporal comparison of species population (monitoring plan)
- 6. Identify and evaluate new target species by December 2006 and update every 3 years.

ISSUES:

SUBGROUP: Water Management

(timing & flow)

- 1. Timing, distribution, quality, and quantity of freshwater inputs into Biscayne Bay and how that affects biological communities
- 2. salinity fluctuations/changes
- 3. CERP effects
- 4. impact of sea-level rise on Bay ecology
- 5. Effects of increasing flood control
- 6. Groundwater movement and inputs to the Bay

OBJECTIVES:

- 1. Improve timing, distribution, quality, and quantity of freshwater inputs into Biscayne Bay by 50% of the difference between current and historical levels by 2020; and by 75% by 2050 (*Issues 1,2,6*)
- 2. CERP to include Biscayne Bay restoration as an equal objective to Everglades restoration with regard to water resources as soon as possible, but no later than 2005 (*Issue 3*)
- 3. Sea level rise effects to be determined as soon as possible, but no later than 2008, and considered in Biscayne Bay restoration, and other relevant studies and projects (*Issue 4*)
- 4. increase water storage capability to address 80% of 100 year flood by 2016 to reduce the ecologically damaging pulse discharges to the Bay (*Issue 1,2,5*)

BBRRCT Chart: Goals and Objectives

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REVISED AFTER DECEMBER 12, 2003 MEETING

EXHIBIT E Biscayne Bay Regional Restoration Coordination Team: Goals & Objectives

GOAL: Ecological / Physical Restoration (5/5)

Native Biodiversity, Imperiled Species ISSUES:

- 1. Boating impacts to imperiled species.
- 2. Engineered system impacts to imperiled species (including water control structures)
- 3. Dredging and blasting effects on imperiled species by December 2006.
- 4. Loss of natural environment (flora and fauna)
- 5. Loss of native species diversity due to habitat loss and/or degradation
- 6. Negative effects of water quality on imperiled species and their habitat.

OBJECTIVES:

- 1. Reduce human-related mortality of imperiled species by 10% per year (1,2,3,4,5,6)
- 2. Increase the acreage of suitable imperiled habitat by 5% per year (4,5)
- 3. Identify effects of dredging and blasting on imperiled species by December 2006 (3)
- 4. BMPs for dredge and blast by December 2008 (3)
- 5. Reduce habitat loss impairing native species diversity and imperiled species; especially critical habitat. (1,2,3,4,5,6)
- 6. Improve water quality parameters effecting imperiled species by 50% of the difference between current and historic conditions by 2020: and by 75% by 2050 (6)

SUBGROUP:

Habitat, Biodiversity, Imperiled Species

Habitat ISSUES:

- 1. Seagrass loss and degradation
- 2. Physical destruction of the benthic habitat (corals, hard bottom, seagrasses) due to grounded boats, anchor damage, fishing, dredging and other human impacts
- 3. Degradation of the water column habitat.
- 4. Effects and management of invasive exotic flora and fauna.
- 5. Loss and degradation of coastal wetland habitat.
- 6. Loss of habitat protection (mitigation, take and permitting)
- 7. Destruction/degradation of juvenile fish and macro-invertabrate habitat
- 8. Loss of estuarine habitat and associated species assemblages
- 9. Impacts of artificial reefs on habitat
- 10. Impact of sea-level rise on Bay ecology

OBJECTIVES:

- 1. No net loss of seagrass and other benthic habitat coverage; degraded seagrass and other benthic habitat acreage enhanced by 5% per year until quality is restored (1,2,7)
- 2. No net loss of coastal wetland habitat; degraded coastal wetland habitat acreage enhanced by 5% per year until quality is restored (5,7)
- 3. Restoration of the water column habitat through improvement of water quality by reduction of pollutants by 10% per year until water quality standards are met. (3,7)
- 4. Restore with native vegetation 5% per year of acreage infested with invasive exotic plants until exotics are completely removed; maintain restored acreage and prevent future spread. (4,7)
- 5. Improve invasive exotic management techniques to eliminate impacts on native flora and fauna. (4,7)
- 6. Revise permitting rules and regulations to achieve habitat restoration objectives by 2007. (1,2,3,5,6,7,8,9)
- 7. Restore salinity regime along nearshore western Bay by improving timing, distribution, quality, and quantity of freshwater inputs into Biscayne Bay by 50% of the difference between current and historical levels by 2020; and by 75% by 2050. (8)
- 8. Evaluate impacts of existing and proposed artificial reefs in Biscayne Bay (including unauthorized reefs) (9)
- 9. Evaluate current and future impact of sea level rise on Bay ecology. (10)

Habitat ACTION STEPS:

7. Quantify physical impacts to benthic habitat by human activities.

- 8. Implement "Weeds Won't Wait"
- 9. Decrease salinity in coastal wetlands to improve ecological conditions for enhancement of coastalwetlands.