

EPA FY19 (\$2.9M) South Florida Geographic Initiative Funding

- Improving Water Quality in the Residential Canals in the Florida Keys (sargassum)
- Water Quality, Seagrass, CREMP Monitoring Program and Database (continuing programs)
- Monitor / Research Coral Health in South Florida (three projects – tracking disease progression, developing diagnostic markers, study disease transmission and pathogen identification)
- Endocrine Disrupting Compounds (EDCs) Impacts to South Florida Aquatic Ecosystems (screening for EDC presence, types, distribution and transport)
- Monitoring Water Quality / Seagrass Monitoring in the Caloosahatchee Estuary (two projects – monitoring to distinguish pollutant sources/HAB conditions and seagrass restoration)
- Monitoring Water Quality / Seagrass Monitoring in the Biscayne Bay (three projects – water quality /seagrass monitoring, develop a WQ/sediment transport model, and education/outreach)
- FY20 - ?

STRATEGY / PRIORITY	ISSUE / NOTES	WQPP PRIORITY
Improve Wastewater Improvement (infrastructure)	<ul style="list-style-type: none"> - Continue implementation of wastewater plans - Connecting package plants - Cross Creek 	high
Water Quality Standards Development	<ul style="list-style-type: none"> - Biocriteria for corals, low, remove - Turbidity standard, high - Nutrient numeric criteria, medium (RAD narrative) 	medium
Improve Stormwater Management	<ul style="list-style-type: none"> - Implement stricter stormwater permitting, low - Implement stricter stormwater management, medium - Stormwater BMP development and education, high 	Education high
Implement Monroe County Canal Master Plan	<ul style="list-style-type: none"> - Improve water quality in residential canals - Ordinance to prevent dumping in canals - BMPs for canal residents / education - Canals contribution to nearshore WQ study 	high
Water Quality, Coral and Seagrass Monitoring Programs	<ul style="list-style-type: none"> - Evaluate current monitoring programs to determine if needs of resource managers are being met - Identify critical monitoring needs 	High / TAC
Marinas / Live- <u>aboards</u>	<ul style="list-style-type: none"> - Strengthen regulations / implemented NDZ, low - Ensure adequate marine pump-out services, medium - Education programs to reduce marina pollution, high 	Education high

STRATEGY / PRIORITY	ISSUE / NOTES	WQPP PRIORITY
Florida Bay / External Influences	<ul style="list-style-type: none"> - Restoring freshwater flow to FL Bay from Everglades, high - Research the effects of Florida Bay on the Sanctuary 	Medium – high / TAC
Mosquito Spraying	<ul style="list-style-type: none"> - Pesticide research on impacts on mosquito control - Reduce aerial spraying within the Sanctuary 	medium
Sanctuary Research	<ul style="list-style-type: none"> - Develop aquatic resource predictive models for Sanctuary - Detect & identify wastewater / stormwater sources pollutant sources and ecological impacts 	Low/ TAC
Sargassum / organic debris in canals and on beaches	<ul style="list-style-type: none"> - Floating organic debris in a canal / nearshore - Problem and nuisance to homeowners / boaters - Prevention of this far-field source 	
Habitat protection / restoration - mangrove, seagrass, and sponge habitat	<ul style="list-style-type: none"> - Healthy hard bottom communities recycle nutrients - provide fish habitat / nurseries - mitigate surge from storm events - Focus on sponges, mangroves and seagrass 	
Resiliency / Prepare for sea level rise	<ul style="list-style-type: none"> - Sea level in the Keys has risen 3 – 5 inches in the last 20 years increasing flooding and threatening infrastructure 	
Marine debris / trash free waters	<ul style="list-style-type: none"> - Impacts wildlife, water quality, and navigation - Debris from storm events - NRCS / FEMA support if WQPP priority 	
Endocrine Disruptors	<ul style="list-style-type: none"> - Antibiotics, UV filters, pharmaceuticals, pesticides impacting WQ / aquatic organisms 	

STRATEGY / PRIORITY	ISSUE / NOTES	WQPP PRIORITY
Florida Keys / Florida Bay Science Conference	- Last one held in 2010	
Coral reef restoration	<ul style="list-style-type: none"> - Restoring reefs after SCTLD - Benefits of reefs for shoreline protection / resiliency 	
Turkey Point groundwater	- Potential impact to drinking water wells supplying the Keys	
Develop additional mooring fields in the Keys	- Monroe County mooring 2014 field feasibility study	
Potential offshore drilling		
Vessel discharge from large ships		
Ocean acidification		
Other priorities ???		

Discussion

Water Quality Protection Program



City of Key Colony Beach



US Army Corps of Engineers

Florida Keys
Environmental Fund

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