

A blue gradient slide with white text and decorative white lines in the bottom right corner. The text is centered and reads: "WATERWAY QUALITY CHARTER", "City Commission Top Priority 2021", and "Todd Hiteshew Environmental Compliance Manager".

**WATERWAY QUALITY
CHARTER**

City Commission Top Priority 2021

Todd Hiteshew
Environmental Compliance Manager

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A blue gradient slide with white text and decorative white lines in the bottom right corner. The text is centered and reads: "SCOPE" and "Monitor and Improve the Quality of our Waterways".

SCOPE

Monitor and Improve the Quality of our
Waterways

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2020 INITIATIVES


- National Pollutant Discharge and Elimination System (NPDES) Implementation and Reporting – **On-going**
- Stormwater Operations Pollution Prevention Activities - **On-going**
- Education and Awareness - **On-going**
- Algal Bloom Monitoring Plan and Pilot Project – **On-going**
- Proactive Waterway Quality Sampling Program - **Initiated**
- Implementation of amended Florida-Friendly Fertilizer Use on Urban Landscapes – **On-going**

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2021 INITIATIVES

- Education and awareness through NPDES implementation
- Implementation of stormwater quality improvements
- Continuation of Waterway Quality Monitoring Program
- Remediation of impacted waterbodies from 2019-2020 wastewater discharges
- Researching the feasibility of a program to increase the availability of mobile pump-outs and cost effectiveness
- Continuation of the canal cleaning program to remove floating debris
- Implementation of aeration and the pilot projects from the algal study


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EDUCATION AND AWARENESS THROUGH NPDES IMPLEMENTATION

- ▶ NPDES Outreach
 - ▶ Pesticides, herbicides, and fertilizer
 - ▶ Illicit discharges and improper disposal
 - ▶ Proper use and disposal of oils, toxics, and household hazardous waste

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IMPLEMENTATION OF STORMWATER QUALITY IMPROVEMENTS

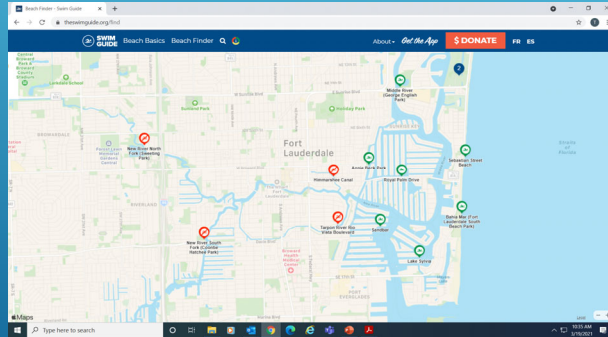
- ▶ Verify ownership of stormwater catch basins to ensure maintenance
- ▶ Create inventory of catch basins that contain pollution control baffles
- ▶ Develop a plan to retrofit catch basins that contain pollution control baffles
- ▶ Implement a proactive swale rehabilitation program to improve water quality treatment of stormwater

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WATERWAY QUALITY MONITORING PROGRAM

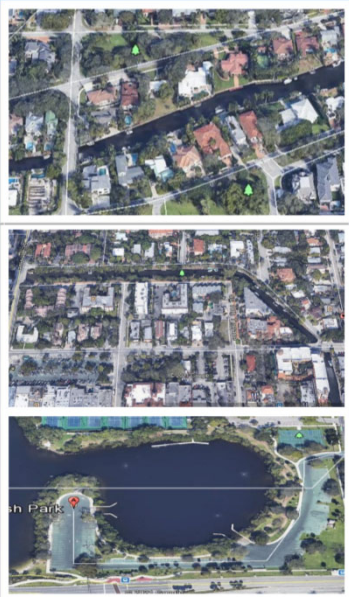


- ▶ Continue weekly waterway quality monitoring with Miami Waterkeeper
- ▶ Monitoring 10 recreational sites weekly for bacteria pollution
- ▶ Monitoring started in January 2021
- ▶ Results are posted in www.swimguide.org



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REMEDATION OF IMPACTED WATERBODIES FROM 2019-2020 WASTEWATER DISCHARGES



- ▶ George English Lake
 - ▶ Permits obtained
 - ▶ Gator Dredging contracted to perform sediment removal
 - ▶ Expected start date: mid to late April
- ▶ Tarpon River
 - ▶ Broward County Environmental Resources License obtained
 - ▶ Florida Department of Environmental Protection regulatory exemption for maintenance dredging obtained
 - ▶ US Army Corps of Engineers permit still pending
- ▶ Himmarshee Canal
 - ▶ Assessment still on-going. Report expected in April.


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RESEARCHING THE FEASIBILITY OF A PROGRAM TO INCREASE THE AVAILABILITY OF MOBILE PUMP-OUTS AND COST EFFECTIVENESS

- ▶ The use of pump-out facilities is important to reduce or eliminate the discharge of sewage into our waterways
- ▶ This initiative seeks the feasibility for increasing the availability of mobile pump-outs and making it cost-effective and convenient


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CONTINUATION OF THE CANAL CLEANING PROGRAM TO REMOVE FLOATING DEBRIS

- ▶ City currently has a contractor that removes floating debris from all the City's waterways on a monthly basis
- ▶ This initiative will monitor the waste generated from canal cleaning to understand volumes and locations and identify hot spots.


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IMPLEMENTATION OF AERATION AND THE PILOT PROJECTS FROM THE ALGAL STUDY

- ▶ Increased dissolved oxygen increases microbial activity that can help improve water quality and reduce algal blooms
- ▶ FY22 Budget Request
- ▶ Research the feasibility of aerators in Lake Melva, Cliff Lake, Tarpon River, and Himmarshee Canal
- ▶ Implement pilot projects from algal study (a completed 2020 initiative)
 - ▶ Evaluate effectiveness of existing current aeration system at Lido Dr.
 - ▶ Install a bubble curtain near SW 12th Ct
 - ▶ Install shellfish/oyster bags near SW 27th Ave


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LAUDERTRAC – UPDATES ON THE COMMISSION PRIORITIES

- Regular newsletter on the progress of the Commission's Top Priorities for 2021.
- First issue for 2021 scheduled for March/April
- <https://www.fortlauderdale.gov/Home/Components/News/News/5285/16>

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