

Environmental Compliance Aquatic Weed Control & Water Quality Monitoring

Aquatic Weed Control: This function continues the general biological monitoring of aquatic weeds in selected lakes and treatment of hydrilla in Lake Jackson and water hyacinth in Lakes Jackson, Hall, Munson and Carr. The Florida Department of Environmental Protection (FDEP) will prepare a final treatment plan in coordination with the County Environmental Compliance Division, and Public Works Department staff, the Science Advisory Committee, and the Florida Game Fish and Wildlife Commission. FDEP cooperates with a 50-50 cost share for materials for this activity. FDEP provides the labor and expertise to perform the weed control at no cost to Leon County, due to the cooperative relationship between the two agencies.

Water Quality Monitoring: Maintain a water quality monitoring program for selected area surface water features. Entails data collection and analysis, including trend analyses to determine the present condition of county surface waters and the changes they experience over time.

PROGRAM HIGHLIGHTS

1. In the Water Quality Monitoring Program, 12 area lakes and the Ochlockonee River were sampled on a monthly basis at 37 different locations. There were a total of 468 samples taken last year and they were tested for 19,629 parameters.
2. No funds were expended last year in the Aquatic Weed Control program due to the drought which is still in effect.
3. Performed water quality monitoring for the Bradford Brook Chain of Lakes due to algae blooms occurring after Tropical Storms Allison and Barry and the FSU reservation requested monitoring. The bloom proved not to be toxic. However, this shows a need for a lake monitoring program. These lakes need to be monitored to determine potential sources of pollution.
4. Addition of bacteriologicals at all stations to make the County's sampling consistent and equivalent with the City's program.
5. Perform sampling of stormwater ponds to determine the effectiveness of different types of stormwater treatment facilities. Results could help justify the most protective type of stormwater treatment. County staff would select 4 ponds to be studied for efficiency rating over a year time frame pulling monthly samples at the inflow and outflow for different events.
6. Perform tributary studies to identify pollutant sources and to assist in the Total Maximum Daily Loading (TMDL) NPDES program. A total of 50 samples to be taken to determine sources of bad water quality that enter our area lakes.
7. Entrance of sample data into the EPA's STORET database which can prove helpful in providing a fair representation of our County's water quality in EPA's database and could possibly lead to grant funding for impaired waterbodies.

ADVISORY BOARD

None

SUMMARY OF KEY STATUTORY RESPONSIBILITIES

Policy 2.2.6 of the Conservation Element of the Comprehensive Plan requires "an ambient and ongoing surface water quality monitoring program to establish a bank of baseline data" on area lakes.

SUMMARY OF KEY SERVICE FUNCTIONS

1. The Water Quality Monitoring Program provides baseline data for selected area surface water features. The project entails data collection and analysis, including trend analyses to determine the present condition of County surface waters and the changes they experience over time.
2. The Aquatic Weed Control Program provides for treatment of hydrilla in Lake Jackson and water hyacinth in Lakes Jackson, Hall, Munson and Carr. The Florida Department of Environmental Protection (FDEP) cooperates with a 50-50 cost share for materials for this activity. FDEP provides the labor and expertise to perform the weed control at no cost to Leon County, due to the cooperative relationship between the two agencies.

PERFORMANCE MEASUREMENTS

	FY 99/00	FY 00/01	FY 01/02	FY 02/03
	Actual	Actual	Estimate	Target
1) Water Quality Sample and analysis	N/A	468	468	982
2) Acres treated	N/A	0	250	250

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ACCOUNT NUMBER: 123-760-537 & 123-726-537

FY 2002/2003 THRU FY 2006/2007 FINANCIAL & STAFFING SUMMARY

	FY 00/01 Actual	FY 01/02 Adopted	FY 02/03 Budget	FY 03/04 Planned	FY 04/05 Planned	FY 05/06 Planned	FY 06/07 Planned
<u>OPERATING</u>							
Aquatic Weed Control	\$510	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000
Wtr. Qulty Monitoring	107,249	122,110	158,630	\$166,562	\$174,890	\$174,890	174,890
TOTAL	\$107,759	\$202,110	\$238,630	\$246,562	\$254,890	\$254,890	\$254,890
<u>STAFFING</u>							
Full Time							
O.P.S.							

FY 2002/2003 PROGRAM CHANGES & NOTES:

This program is recommended at an increased funding level. These recommendations are:

1. Increased funding for Water Quality Monitoring - \$36,520.

FY 2003/2004 THRU FY 2006/2007 PLANNED INITIATIVES & NOTES:

This program requests increased funding levels. These are:

1. Continue Water Quality Monitoring with 5% increases estimated for outyears FY 03/04 and FY 05/06.

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PROGRAM EXPENDITURE DETAIL

Object		FY 00/01	FY 01/02	FY 02/03 Requested			FY 02/03 Budget		
<u>Code</u>	<u>Account Description</u>	<u>Actual</u>	<u>Adopted</u>	<u>NII</u>	<u>Change</u>	<u>Total</u>	<u>NII</u>	<u>Change</u>	<u>ARB</u>
760-53100	Aquatic Weed Control	\$510	\$80,000	\$80,000		\$80,000	\$80,000		\$80,000
726-53100	Water Quality Monitoring	107,249	122,110	122,110	36,520	158,630	122,110	36,520	158,630
PROGRAM TOTAL		\$107,759	\$202,110	\$202,110	\$36,520	\$238,630	\$202,110	\$36,520	\$238,630