

Monroe County Selection of Demonstration Canals for ORGANIC REMOVAL

Canal ID: 290 Big Pine Key

Location: MM 31 Not located within a subdivision, Bayside

Summary of Water Quality Impacts: Primary – Organics accumulation on canal bottom.

Restoration Technology: Primary – Organic removal from canal bottom to eliminate on-going source of organic decomposition

Site Conditions: The canal faces due east and discharges into Bogie Channel. The plat book reflects private ownership of lands below the high-water mark is asserted over 0.06 acres of submerged land in the adjacent canal.

Existing Treatment: Weed barrier, air curtain and weed gates. An effective system operated by one of the homeowners.

Homeowner Communication: Stephen Konop 954-461-3797 sent an email to Monroe County stating this canal needs water quality improvements of muck removal.

Water Quality Summary*

D.O. (mg/L / % Saturation)	Turbidity (NTU)	W.Q. Summary & CMMP Ranking	Demo Ranking
1.32 / 18.7% at 4 ft	2.68	Poor 106	92

Characteristics

Size (acres)	0.62
Average Depth (ft)	-7.36
Min Depth (ft)	-7.97
Degree of Stagnation	-0.7
Number of Mouths	1
Organic Thickness (ft)	1.02
Parcels	13
WBID	6012A Impaired
WWT	FKAA/Cudjoe Regional - Not Completed
FKNMS Monitoring Station	1.36 miles



Abbreviations: Dissolved Oxygen (D.O.); Nephelometric Turbidity Unit (NTU); milligrams per liter (mg/L); Water Body Identification (WBID); waste water treatment (WWT); Feet (ft).

*Information presented in the 2013 Monroe County Canal Management Master Plan.

**Data collected during the 2013 Monroe County Canals Bathymetric Survey.