

Monroe County Selection of Demonstration Canals for CULVERT INSTALLATION

Canal ID: 459 Geiger Key

Location: MM 10 Boca Chica Ocean Shores subdivision, Oceanside

Summary of Water Quality Impacts: Weed wrack entry into dead end canal

Restoration Technology: Culvert installation under Boca Chica Road with connection to Canal 460 Geiger Key to assist with flushing and prevent the entrapment of weed wrack at the end of the canal.

Site Conditions: The canal faces southeast and discharges into Similar Sound. The plat book indicates the property is owned by the federal government. The County indicated they cannot pre-empt federal use of the property and additional research is being conducted to determine the nature of the federal interest in the property.

Existing Treatment: None

Homeowner Communication: None to date

Water Quality Summary*

D.O. (mg/L / % Saturation)	Turbidity (NTU)	W.Q. Summary & CMMP Ranking	Demo Ranking
1.74 / 27.6% at 5 ft	Not Measured	Poor 86	64

Characteristics

Size (acres)	0.25
Average Depth (ft)	-8.69
Min Depth (ft)	-9.71
Degree of Stagnation	-0.9
Number of Mouths	1
Organic Thickness (ft)	0.59
Parcels	7
WBID	6014C Not impaired
WWT	FCAA/Big Coppitt
FKNMS Monitoring Station	4.37 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.