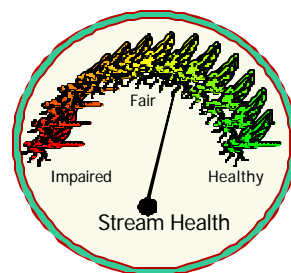




EcoSummary

No Name Creek

11/09/99



Background

No Name Creek is located in Jefferson County, west of Monticello, FL (see Figure 1). Caney Creek is in the Gulf Coast Flatwoods Subcoregion (75a). This area is characterized by heterogeneous areas, including swamps, marshes, terraces, deltas, paleo sand dunes, and limestone plains and rocklands. Inland areas are usually characterized by pine flatwoods, hardwood forest, and swamp vegetation. Many blackwater streams are found in this area.

Figure 1: Overview Map of No Name Creek

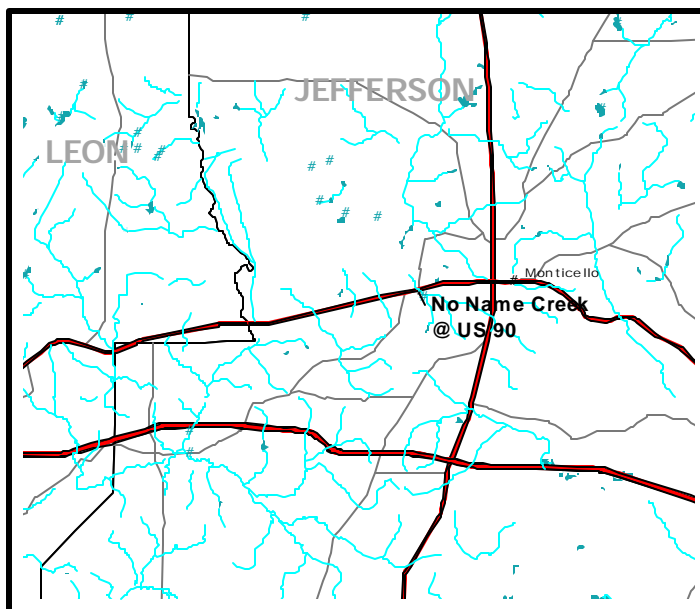


Figure 2: Data for Selected Parameters

Station	pH (Std Units)	Conductivity (umhos/cm ²)	Dissol. Oxygen (mg/L)	Turbidity (NTU)	TSS (mg/L)	NH ₃ (mg/L)	NO _x (mg/L)	TP (mg/L)	TOC (mg/L)	V (f/s)	Q (cfs)
No Name Creek	6.4	83	7.1	8.9	18	0.014	0.11	0.095	7	0.50	0.974

Storet Station	Sampling Date	# EPT Taxa	# Macro- invertebrate Taxa	Florida Index	Fecal Coliforms (col/100 ml)	Total Coliforms (col/100 ml)
22030095	11/09/99	7	27	16	300	1800

Results

Physical/chemical parameters and nutrients were sampled in No Name Creek at US 90 in November 1999. Surface water samples were taken and analyzed for ammonia, nitrite-nitrate, and total phosphorus. Turbidity, total suspended solids (TSS), total organic carbon (TOC), and fecal and total coliform levels were also measured. Macroinvertebrates were sampled using four dipnet sweeps.

Ammonia concentration for No Name Creek was in the good range, lower than is found in 90% of Florida streams; see Figure 2. ("Good" here is defined as being at concentrations lower than those found in 70% of Florida streams.) The nitrate-nitrite (NO_x) value was in the fair range, lower than is found in 60% of state streams. The total phosphorus level was in the good-to-fair range, lower than is found in 60% of Florida streams. The turbidity in No Name Creek (8.9 NTU) was poor, higher than is found in 80% of state streams. Fecal (300 colonies/100 ml) and total (1800 colonies/100 ml) coliform counts were within the acceptable range. The DEP Water Assessment Section took flow measurements the previous day. The average velocity (V) was 0.50 f/s, and flow (Q) was 0.974 cfs.

Biological Reconnaissance (BioRecon) was used to evaluate the macroinvertebrates in No Name Creek to indicate the overall ecological health of the system. No Name Creek is in the Panhandle East BioRecon region and is therefore evaluated based upon the threshold values (given in parentheses) for that area of Florida. The number of Ephemeroptera, Plecoptera, and Trichoptera taxa (EPT) was 7 (9). The total number of macroinvertebrate taxa was 27 (24). The Florida Index value was 16 (19). No Name Creek passed only one of the three components of BioRecon and is therefore suspected to be impaired. A Stream Condition Index (SCI) survey is recommended to determine the ecological health of No Name Creek.



FOR MORE INFORMATION, CONTACT:

Amy Bennett, FDEP Environmental Assessment Section
2600 Blair Stone Road MS#6511 Tallahassee, FL 32399-
2400 (850) 921-9730 Amy.Bennett@dep.state.fl.us