



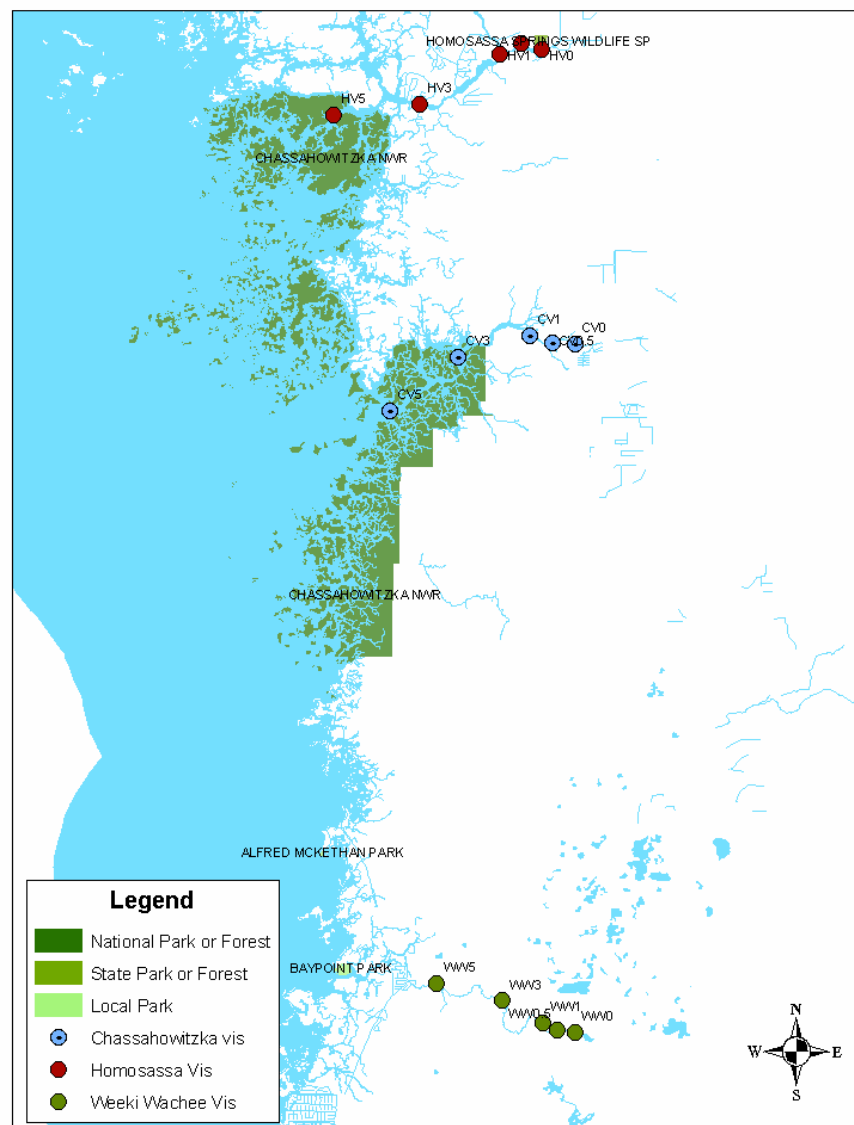
Veronica Craw

Environmental Section

Brooksville, FL

Coastal Rivers Monitoring Network

- Goal:
 - Develop optical model for 3 spring fed systems – cause of decrease in visibility from headspring
- 15 stations (5 per river system)

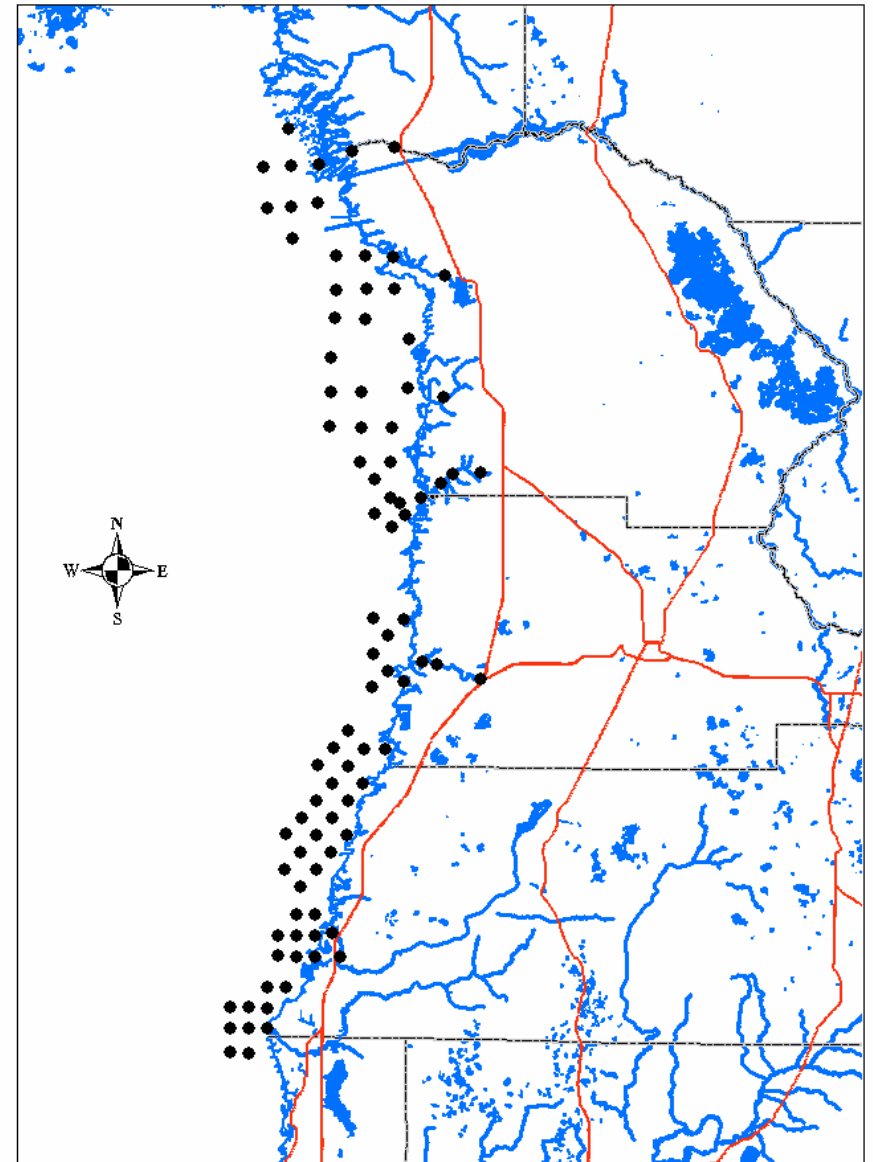


Coastal Rivers Monitoring Network

- Key Parameters:
 - Secchi Depth
 - DO
 - pH
 - TSS
 - Ammonia
 - Nitrite
 - Nitrate+Nitrite
 - TP
 - Orthophosphate
 - Chlorophyll
 - Turbidity
- Additional Info:
 - 2005-2008
 - Bi-monthly sampling
 - Horizontal Secchi
 - Data in STORET
 - Field and Lab work done by SWFWMD

Project COAST

- Goal:
 - To detect changes in water quality, vegetative communities, and associated biota
- 90 Stations



Project COAST

- Parameters:
 - Temperature
 - Secchi Depth
 - Color
 - Salinity
 - DO
 - Total Nitrogen
 - Total Phosphorous
 - Chlorophyll a
 - Light Attenuation
- Additional Info:
 - 1996-Present
 - Monthly sampling
 - Data in STORET
 - Field and Lab work done by UF
 - Weeki Wachee, Chassahowitzka, and Homosassa Rivers are sampled quarterly at established transects for chemical, physical, and biological parameters to complete a river characterization.

Crystal River/Kings Bay Water Quality Evaluation

- Goal:
 - To assess the status and changes in water quality and clarity, either spatially or temporally
- 12 Stations

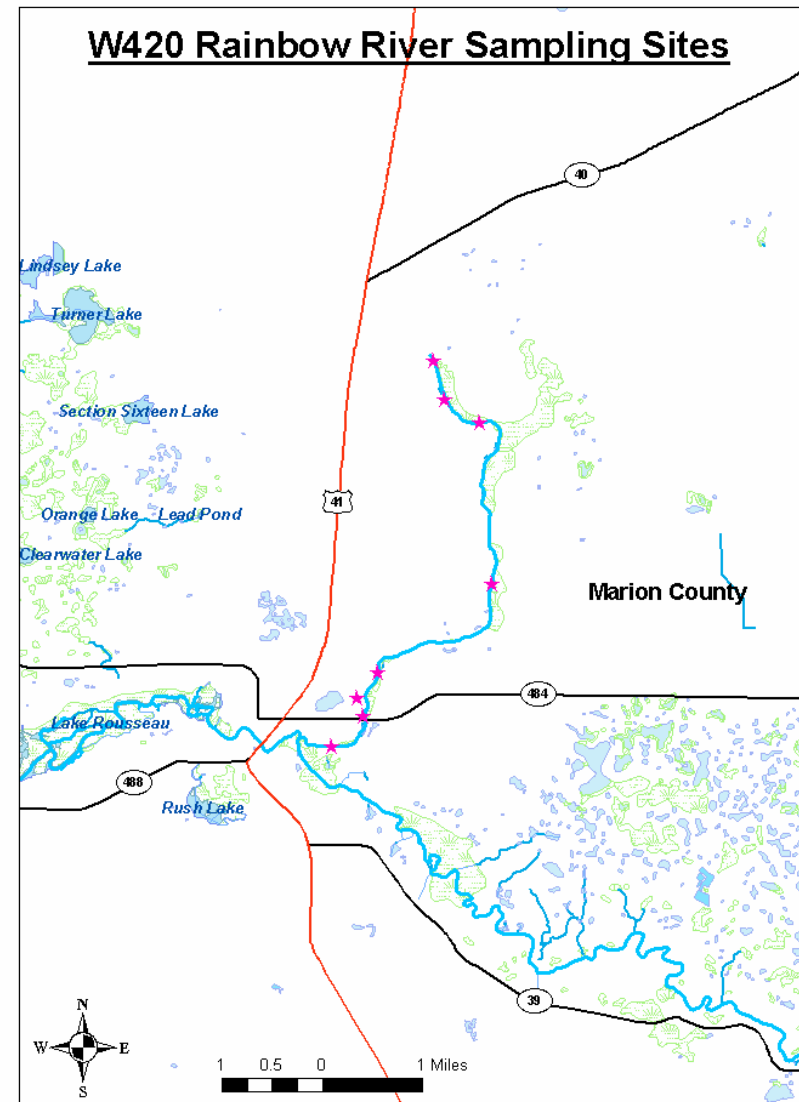


Crystal River/Kings Bay Water Quality Evaluation

- Parameters:
 - Horizontal Secchi Depth
 - Color
 - Specific Conductance
 - Total Suspended Solids
 - Nitrogen, Total
 - Ammonia, Total
 - Nitrite, Total
 - Nitrate+Nitrite, Total
 - Phosphorous
 - Orthophosphate
 - Chlorophyll a
 - Turbidity
- Additional Info:
 - 2003-Present
 - Bi-monthly sampling
 - Data in STORET
 - Field and Lab work done by SWFWMD
 - Horizontal Secchi
 - SWIM Priority Waterbody

Rainbow River Water Quality Evaluation

- Goal:
 - To understand and model the River's exceptional water clarity
- 8 Stations

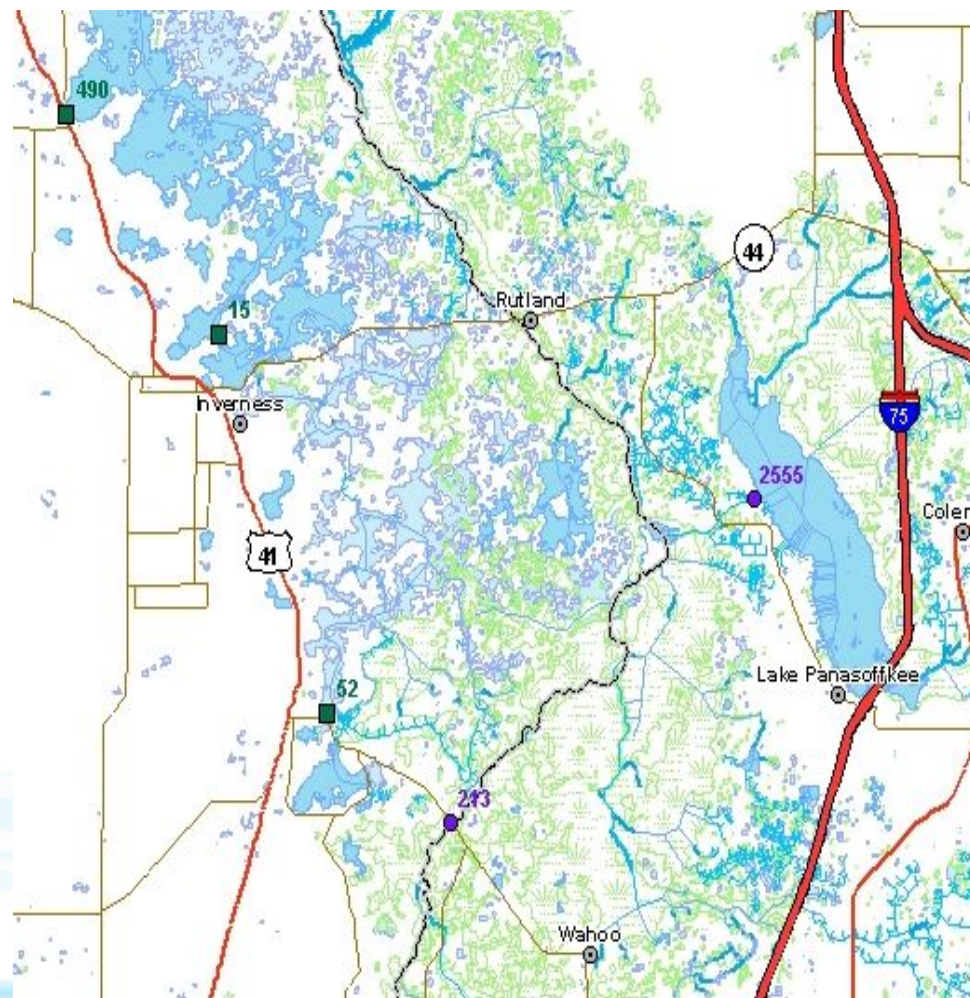


Rainbow River Water Quality Evaluation

- Parameters:
 - Horizontal Secchi
 - Color
 - Specific Conductance
 - Residue, Total Volatile
 - Total Suspended Solids
 - Nitrogen, Total
 - Ammonia, Total (as N)
 - Nitrite, Total (as N)
 - Nitrate+Nitrite, Total (as N)
 - Phosphorous, Total (as P)
 - Orthophosphate, Dissolved
 - Chlorophyll
 - Residuals, Dissolved
 - Turbidity, Lab
- Additional Info:
 - 2002-Present
 - Bi-monthly sampling
 - Data in STORET
 - Field and Lab work done by SWFWMD
 - Horizontal Secchi
 - Coordination with DEP Aquatic Preserve
 - SWIM Priority Waterbody
 - Results indicate a very strong correlation between clarity and water-column chlorophyll concentration

Wysong Dissolved Oxygen Monitoring

- Goal:
 - To satisfy permit conditions for the Florida Department of Environmental Protection (FDEP) Environmental Resource Permit Authorization Number 09-0177432-00
 - To operate the structure based on current conditions, specifically dissolved oxygen levels in the Withlacoochee River and Lake Tsala Apopka
- 5 Stations



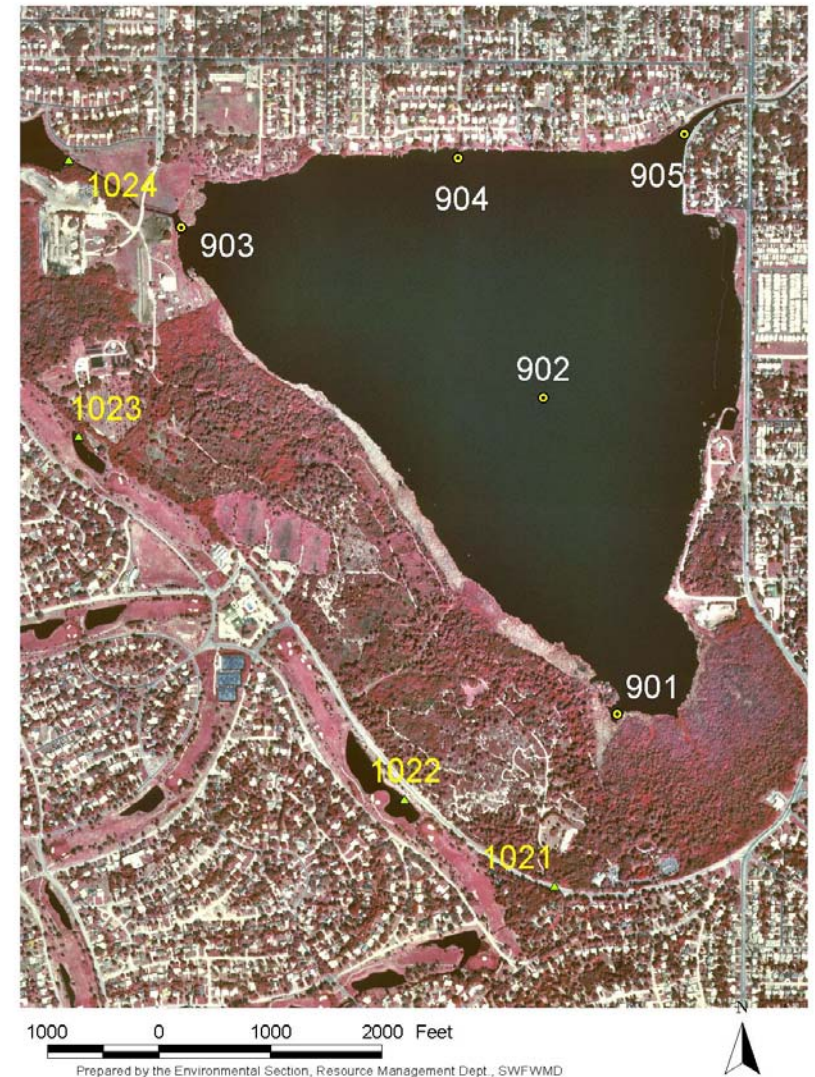
Wysong Dissolved Oxygen Monitoring

- Parameters:
 - Dissolved oxygen (mg/l)
 - Dissolved oxygen (% saturation)
 - Dissolved oxygen, minimum value (mg/l)
- Additional Info:
 - 2003-Present
 - Hourly sampling
 - Data are available to users from VTSCADA only
 - Field work done by SWFWMD

Lake Maggiore Restoration

- Goal:
 - To determine the effectiveness of the water quality restoration projects that are either underway or completed.
- 5 Stations

Lake Maggiore In-lake and Stormwater Sampling Sites



Lake Maggiore Restoration

- Parameters:

Temperature	Transparency
Secchi Depth	Specific Conductance
Salinity	Color
Hydrogen Ion	DO
Field pH	Field Alkalinity
TN	Ammonia
Nitrite	Nitrate+Nitrite
Calcium	Magnesium
Sodium	Potassium
Chloride	Sulfate
Iron	Aluminum
Chlorophyll	Turbidity
Total Suspended Solids	
Total Phosphorous	
Orthophosphate	

- Additional Info:

- 1996-Present
- Monthly sampling
- Data in STORET
- Field and Lab work done by SWFWMD
- Stormwater treatment projects treat roughly 80 percent of the runoff
- Nutrient load reduction will be determined and used for water quality enhancement credits under the TMDL BMAP process

Little Lake Jackson Stormwater Improvement

- Goal:
 - To characterize the background water quality
 - to document the effectiveness of the completed alum injection system

Little Lake Jackson Stormwater Improvement (K165), Sebring FL, Highlands County



Little Lake Jackson Stormwater Improvement

- Parameters:
 - Temperature Secchi Depth
 - Color DO
 - Field pH Field Alkalinity
 - Ammonia Nitrate+Nitrite
 - Magnesium Chloride
 - Sulfate Iron
 - Aluminum Chlorophyll
 - Turbidity Calcium
 - Orthophosphate
 - Total Phosphorous
 - Total Suspended Solids
 - Specific Conductance
- Additional Info:
 - 2006-Present
 - Quarterly sampling
 - Data in STORET
 - Field work by Highlands County
 - Lab work done by SWFWMD
 - Nutrient load reduction will be determined and used for water quality enhancement credits under the TMDL BMAP process

