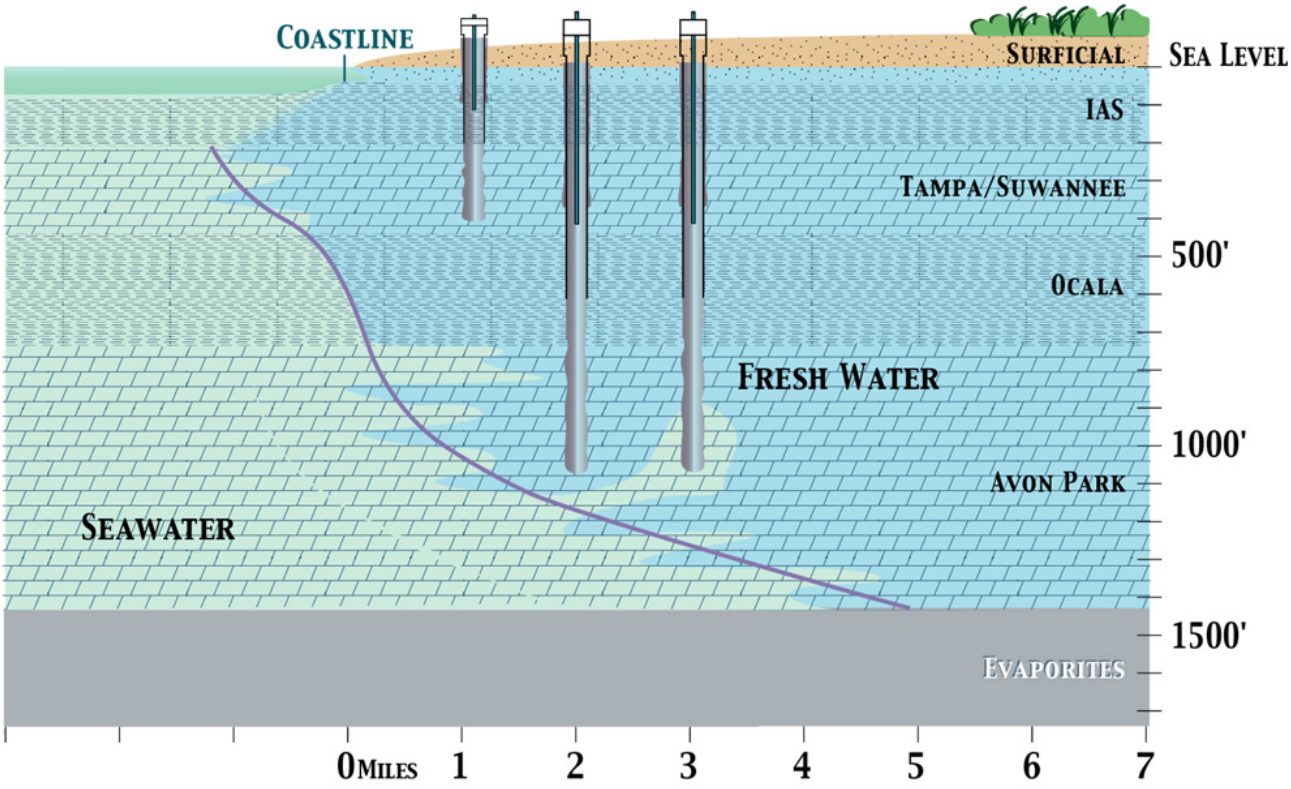
Coastal Ground-Water Quality Monitoring Network / Water-Use Permit Network Report

Volume V



Water Quality Monitoring Program
Resource Data Section

Southwest Florida Water Management District

March 2005

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Professional Geologist

The geological evaluation and interpretation contained in this report entitled "Coastal Ground-Water Quality Monitoring Network / Water-Use Permit Network Report – Volume V" were reviewed by a Certified Professional Geologist in the State of Florida.

Eric C. Dehaven

3/14/05
Date

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Authors:

Eric C. Dehaven	Professional Geologist, WQMP
Joseph D. Haber	Staff Hydrologist, WQMP

Contributors:

Michael Beach	Senior Professional Engineer, Hydrologic Evaluation
Jill Hood	Professional Geologist, Hydrologic Evaluation
Catherine Wolden	Environmental Scientist, WQMP
Chris Tomlinson	Field Technician Supervisor, WQMP
Robert Brady	Staff Field Technician, WQMP
Rob Degraaf	Field Technician, WQMP
Ian Geraldi	Field Technician, WQMP
Laura Stanley	Field Technician, WQMP

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INTRODUCTION

The Coastal Ground-Water Quality Monitoring Network/Water-Use Permit Network Report – Volume V is a result of an intensive effort by the Water Quality Monitoring Program (WQMP) of the Resource Data Section at the Southwest Florida Water Management District (SWFWMD or the District) to develop and maintain a monitoring program for ground-water quality in areas potentially impacted by salt water intrusion and/or the upwelling of mineralized water. Increased ground-water withdrawals have resulted in declining heads in the aquifer systems of west-central Florida. The risk of salt-water contamination of the potable ground-water supply increases with the increase in ground-water withdrawals.

The Coastal Ground-Water Quality Monitoring and Water-Use Permit Networks are the largest and longest ongoing well sampling networks of their kind at the District. The networks have a combined total of 354 wells that cover 13 counties, and new wells are added to the networks at a rate of 5 to 10 wells per year. The establishment of these networks is a direct result of the research by Trommer (1993) in which the USGS suggested the development of a long-term network dedicated to monitoring the saltwater/freshwater transition zone in West-Central Florida. This long-term project becomes increasingly important with the increased demand that is put on ground-water resources in West-Central Florida.

Prior versions of this report were dedicated to analysis of the Coastal Ground-Water Quality Monitoring Network (CGWQMN) only. In 2000, the CGWQMN was integrated with a newly re-designed water quality monitor well network called the Water-Use Permit Quality Monitoring Network (WUPNET). The WUPNET Sentinel Network is intended to provide a statistically based network design to the confined aquifers of the SWUCA to monitor water quality trends.

This report of the CGWQMN/WUPNET has been compiled with the intention of determining the change in water quality of the wells within the network over the last thirteen years (1991-2003). In completing this task, special emphasis has been put on those analytes that are indicative of salt-water intrusion and upwelling of mineralized water. The water quality data in this report has been statistically analyzed in both quantitative and qualitative form with the use of non-parametric calculations and graphical trend analysis.

HYDROGEOLOGIC SETTING

The hydrogeologic systems of the SWFWMD consist of unconsolidated siliciclastic sediments (sand and clay), which form the surficial aquifer system (SAS), underlain by a thick sequence of carbonate rock that together form the intermediate aquifer system (IAS) and the Floridan aquifer system (FAS) (Figure 1). The hydrostratigraphy of the northern half of the SWFWMD is vastly different

than the southern half. In the northern half, the surficial aquifer system is, at best, discontinuous, and the intermediate aquifer is nonexistent.

Within the SWFWMD boundaries, the intermediate aquifer system extends from southern Hillsborough and Polk counties to the southern boundary of the District. In this area, the intermediate aquifer consists of one to three water bearing units composed of limestone, dolostone, clays and phosphatic quartz sands separated by confining units composed of low permeability clay and dolostone. In the northern half of the District, much of the sediments associated with the Hawthorn Group have been eroded away, hence there are no intermediate wells in this area. The three distinct water-bearing units in the intermediate aquifer have been assigned to three “permeable zones”. For this report, the permeable zones of the intermediate aquifer are treated as one unit because there are not a significant number of wells in any one zone. Also, several wells that have been labeled as intermediate wells in past reports may be open to several intermediate permeable zones as well as portions of the Floridan aquifer. Those wells have been eliminated from this analysis until a more rigorous investigation attempts to accurately define the sampled interval. Wells of this nature have been labeled as “unknown” for the Aquifer/Formation Group in Tables 1-13.

At the base of the Upper Floridan aquifer, intergranular evaporite deposits with extremely low permeability act as a confining unit to the Lower Floridan aquifer. This middle confining unit essentially divides the potable from the non-potable water sources throughout the inland areas of the Floridan aquifer system. (Miller, 1986)

The Floridan Aquifer System (FAS) is the principal water-bearing unit within the SWFWMD. The sediments of the Hawthorn Group associated with the Intermediate Aquifer System (IAS) act as an upper confining unit to the Floridan aquifer system. In the northern portion of the District, these sediments have been eroded away, leaving the Suwannee Limestone, Ocala Limestone and Avon Park Formation at or near land surface. Hence, this area is considered unconfined in comparison to the semi-confined to well confined southern portion of the District.

The Tampa Member of the Hawthorn Group, when in direct contact with the Suwannee Limestone, and the Suwannee Limestone collectively form the upper portion of the Floridan aquifer. The units will be referred to as the Tampa/Suwannee Zone for the remainder of this report. The limestone associated with the zone is thick, highly fossiliferous and contains one or more highly permeable flow zones, which is separated from the lower flow zone of the Floridan aquifer by the less permeable Ocala Limestone.

The upper portion of the Ocala Limestone generally acts as a semi-confining layer between the overlying Tampa/Suwannee flow zone and the underlying lower Ocala Limestone and highly transmissive Avon Park Formation flow zone. There are relatively few wells within the CGWQMN that are completed

exclusively in the Ocala Limestone and the Avon Park Formation. Consequently, the lower portion of the Ocala Limestone and the Avon Park Formation are collectively referred to as the Ocala/Avon Park Zone for the remainder of this report.

GROUND-WATER QUALITY CONCEPTS OF INTEREST

Salt-Water/Fresh-Water Transition Zone

Fresh ground-water in coastal areas is theoretically underlain by a wedge-shaped body of saline ground-water due to density differences between the fresh-water and the salt-water. The zone of brackish ground-water where the fresh ground-water and salt-water intermixes forms the transition zone, or zone of diffusion. Seaward of the transition zone, chloride concentrations increase and may approach 19,000 mg/L. Landward of the transition zone, the chloride concentrations grade to approximately 25 mg/L (Causseaux and Fretwell, 1982). Commonly, a constant-chloride concentration line (isochlor) within the transition zone is delineated. This line is called the salt-water/fresh-water interface. The salt-water/fresh-water interface has frequently been defined in various studies as the 250 mg/L isochlor (Casseaux and Fretwell, 1982, Trommer, 1993, and AGWQMP, 1992) because this value is a secondary drinking water guidance concentration set by the Florida Department of Environmental Protection (1994). Secondary drinking water guidance concentrations are set to protect drinking water from undesirable or unaesthetic properties, as opposed to health related properties.

The transition zone is in a state of dynamic equilibrium and moves in response to ocean tides and variations in aquifer recharge or discharge. (Cooper et al, 1964). Water withdrawals from an aquifer that result in a reduction in fresh-water head can cause the transition zone to migrate inland into areas of fresher waters. This migration of salt-water into fresh-water aquifers is known as salt-water intrusion. Factors that can reduce fresh-water head and result in salt-water intrusion include heavy pumping of coastal wells, the construction of coastal canals, and the dredging of coastal rivers.

Previous reports in this series have delineated the salt-water interface within the SWFWMD (AGWQMP, 1992 and 1995). The Resource Conservation and Development Department of the SWFWMD has examined the shape of the slope of the salt-water/fresh-water interface. The areal position of the salt-water/fresh-water interface in Upper Floridan aquifer system within the Southern Water-Use Caution Area (SWUCA) of the SWFWMD has also been mapped (SWFWMD, 1993, Beach & Kelley,1999, and Beach & Schultz, 2000). Figure 2 shows the current position of the interface within the “highly permeable” zone of the Upper Floridan aquifer. It is more functional to use the inland distance of the interface in the “highly permeable” zone since as much as 95% of the Upper Floridan aquifer /Avon Park water production is derived from this zone. However, it must be noted

that this zone comprises only 10-25% of the thickness of the Upper Floridan aquifer in the Avon Park Formation (Beach and Schultz, 2000). Also, it is important to note that the interface position from southern Sarasota County through DeSoto County is highly speculative due to a lower number of monitored wells in these areas, hence, in this area, the interface boundary has been denoted with a dashed line. In all of the previously mentioned studies, the salt-water/fresh-water transition zone has been defined as a plane with a 1,000 mg/L isochlor that dips downward with a 0.5 to 3 degree slope.

The movement of the salt-water/fresh-water transition zone is generally very slow, but rapid movement can occur in localized areas where the Floridan aquifer is highly transmissive and/or pumping stress is extreme. Computer simulations of the southern portion of the SWFWMD have shown that the salt-water/fresh-water interface within the highly permeable zone of the Upper Florida aquifer may move as much as one to three miles inland if withdrawal rates are maintained at 600 million gallons per day (mgd) for the next 50 years (Beach & Schultz, 2000)

Upwelling of Mineralized Water

A well-defined flow system exists in the southern portion of the SWFWMD, and the Upper Floridan aquifer in this region is very well confined. Recharge occurs in the Upper Floridan aquifer along the ridge and lake areas of Polk and Highlands counties, and discharge occurs along coastal Charlotte, Sarasota, Manatee, and southern Hillsborough counties (AGWQMP, 1990). As ground-water flows from the recharge areas, it increases in sulfate and total dissolved solid concentrations as a result of aquifer residence time and contact with the evaporite minerals (gypsum and anhydrite) at the base of the Upper Floridan aquifer. Sulfate concentrations in ground-water discharging along the southern coastal regions of the SWFWMD are very high as a result of the long-term contact between the ground-water and sulfate-rich evaporite units (AGWQMP, 1990 and 1994).

Ground-water withdrawals in coastal regions can induce the upwelling of the sulfate-rich mineralized water into potable water supplies. The flow system along the coastal margin and up to several miles inland contains a density difference between the fresh-water and salt-water which results in a significant vertical flow component. Large ground-water withdrawals within the southern portion of the SWFWMD can increase the upward flow of the more mineralized, sulfate-rich ground-water.

COASTAL GROUND-WATER QUALITY MONITORING NETWORK / WATER-USE PERMIT NETWORK DESIGN

Background

A coastal chloride monitor well network was developed by the United States Geological Survey (USGS) in the mid 1980's to monitor the salt-water/fresh-water

transition zone in the major ground-water producing zones in the coastal areas of southwest Florida. This investigation was partially funded by SWFMWD under project FL97-458. The period of investigation for this project extended from October 1986 through September 1991. The results of this are contained in Trommer (1993). Upon completion of the USGS project, the WQMP continued to monitor the coastal well network, and has continued to develop the monitor well network by establishing a long-term, coastal ground-water quality monitoring program.

Some of the changes to the network have included the addition of wells to more inland regions to address water quality changes associated with the upwelling of mineralized sulfate-rich ground-water. In addition, the sampling frequency for approximately one-third of the wells in the network has increased. Current changes to the network include the reporting frequency of the CGWQMN to once every four to five years, increasing the sampling frequency of some critical wells, and integration of the CGWQMN with the revised Water-Use Permit Water Quality Monitoring Network (WUPNET) in the SWUCA. As previously mentioned, the WUPNET Sentinel Network is a statistically based network in which each cell in a grid system contains a designated monitor well for long-term water quality trend detection (Upchurch, 1999). The WUPNET design also contains a random sampling network, however current staff levels have prevented the consistent sampling of this network. The CGWQMN provides additional wells in areas of concern such as near coastal regions. The combined network is known as the CGWQMN/WUPNET.

Monitor Well Network Design

The CGWQMN/WUPNET has been divided into two groups of wells, the Full Winter Network and the Sub-Network, which are sampled at different frequencies. The Full Winter Network includes 206 CGWQMN wells (Figure 3) and 148 WUPNET wells (Figure 4) for a total of 354 wells of which 107 wells are open to the intermediate aquifer (Figure 5), 133 wells are open to the Tampa/Suwannee Zone (Figure 6), and 110 wells are open to the Ocala/Avon Park Zone (Figure 7). The Full Winter Network is sampled once every twelve months during the months of November through March.

The Sub-Network contains 71 CGWQMN wells and 148 WUPNET wells for a total of 219 wells of which 82 wells are open to the intermediate aquifer, 74 wells are open to the Tampa/Suwannee zone, and 63 wells are open to the Ocala/Avon Park Zone. All of the wells included in the Sub-Networks are also included in the Full Winter Network. The Sub-Network wells are sampled three times every twelve months, once in the Spring (May) and Fall (September), and once during the Full Winter Network sampling event.

Well locations with an accompanying identification code are plotted on county maps in Figures 8 – 20. Well specifications and other commonly used identifiers

can be cross-referenced with the identification codes on the county maps using Tables 1 – 13.

A majority of the monitor wells that are included in the CGWQMN/WUPNET are owned by the SWFWMD or by other local, state and federal agencies. In addition, there are privately owned agricultural and potable-supply wells, which are sampled as part of the CGWQMN/WUPNET. Wells included in the CGWQMN/WUPNET have been field-checked in order to verify the well's location and specifications, determine the type of sampling required, and to obtain the owner's permission for sampling, if needed. There are several wells completed in the Avon Park Formation with large open-hole intervals that have been retained in the CGWQMN/WUPNET because there are presently no other wells in the area. These wells will eventually be replaced with more discrete open-hole wells to better identify water quality trends.

The water quality data obtained from the sampling of the CGWQMN/WUPNET is maintained in a database within the SWFWMD. The statistical trend analysis and the graphical representations of the data in this report were completed using water quality data collected from September 1991 – April 2003. It is important to emphasize that only water quality data collected from these two networks was used to calculate the statistical trend analysis for this report. Other reports from different sections have used water quality data from several different projects for their trend analysis. This may lead to some discrepancies when comparing trend results from other reports for the same set of wells used in this report. The water quality for the wells of the CGWQMN/WUPNET can be obtained in paper or electronic format by contacting the Resource Data section of the SWFWMD.

WATER QUALITY SAMPLING

Sampling Protocol

Well sampling protocols follow the SWFWMD Comprehensive Quality Assurance Plan # 870100-G (2004) and the Water Quality Monitoring Program (WQMP) Standard Operating Procedures Manual (WQMP, 2004). Monitor wells are purged in order to remove at least three well volumes of water. After three well volumes of water have been removed and field parameters stabilized, a low flow pump is used to collect the sample. Field parameters are again monitored during sample collection with the low flow pump. Wells with in-place pumps that are pumped frequently are considered to be purged. Therefore, field readings are taken for fifteen minutes in order to establish stability and the well is then sampled. Care is taken not to expose the sample to the atmosphere during sample collection where changes in the equilibrium of the constituents might affect the analytical results. Samples are then preserved and sent by courier to the SWFWMD Chemistry Lab for analysis.

Quality assurance samples, which include equipment blanks and duplicate samples, are collected at a rate of 10% of all samples taken for each CGWQMN/WUPNET sampling event. Field reference samples are also utilized to check the accuracy of the field meters. Field meters are calibrated and checked against a standard each day before sampling begins. Quality Assurance Reports from May 1999 to present are available by request from the WQMP.

Sampling Frequency

The initial sampling frequency established for the CGWQMN was biannually for all wells. In 1993, the CGWQMN was modified in order to increase sampling frequency of wells for quality assurance and statistical purposes. This prompted the formation of the Sub-Network. As previously mentioned, the Sub-Network includes a subset of wells from the full CGWQMN and now includes the entire WUPNET well network. This network is sampled three times per twelve-month period: once in May and September, and once during the Full Winter Network (November through March).

Water Quality Parameters

The field parameters collected at each site include water level elevation, pH, temperature and specific conductance. The SWFWMD Chemistry Lab analyzes the water quality samples in order to determine the concentration of chloride, sulfate, dissolved residuals (i.e. TDS), calcium, magnesium, hardness, potassium, silica, strontium, iron, total alkalinity, sodium, and specific conductance. Chloride and sulfate, which are water quality parameters that reflect water quality impacts due to salt-water intrusion or the upwelling of mineralized water, were chosen for the analysis in this report.

EVALUATION OF GROUND-WATER QUALITY DATA

Graphical Representations of the Data

Scatterplots with LOWESS Smooths

Scatterplots of dissolved chloride versus time and dissolved sulfate versus time for all the CGWQMN/WUPNET wells are depicted in the Appendices. Appendix A contains scatterplots for the Intermediate Aquifer, Appendix B contains scatterplots for the Tampa/Suwannee Zone, and Appendix C contains scatterplots for the Ocala/Avon Park Zone. All of the well sites within the Appendices are in alphabetical order.

The x-axis and y-axis of the scatterplots has been automatically adjusted to reflect the entire sample period for each individual well. This technique preserves the detail for wells with low chloride and sulfate concentrations.

The data points of the scatterplots have been fitted with a LOWESS smoothing technique using SAS v8.2. LOWESS is an acronym for Locally Weighted Scatterplot Smoothing, a statistical process, which produces a relatively smooth line by running along the x-values and finding predicted values from a weighted average of nearby values (Cleveland and McGill, 1984, Cleveland, 1985). The smoothness factor, which is used to control the width of the window, was set at 0.5. The entire period of the data record for each well is represented in each graph.

LOWESS smoothing was used to graphically represent the data because of the technique's ability to suppress some of the data's noise. Therefore, it is easier to see any underlying patterns in the data set.

The interpretation of trends from scatterplots fitted with a LOWESS smooth is very qualitative. However, visually detected trends can often be precursors to statistically valid trends seen in data sets. It should be noted that when comparing scatterplots, the reader should only look at concurrent time periods from both graphs, because the slope of the line is dependent upon the period of record chosen.

It is also important to note there are some newer wells to the network that contain only a few data points. In these cases, the LOWESS smooth can be short, jagged, and difficult to interpret. Some of the wells with few points may not even contain a LOWESS smooth. As more data is collected for these newer wells, graphical representations such as the scatterplot will improve.

STATISICAL TREND ANALYSIS

Methods

The exact form of the Wilcoxon Rank-Sum test was used to determine if there is a significant difference between water quality data populations grouped by time periods. This allows for a comparison of data through time in order to identify trends and to determine when trends begin and end. The water quality data collected for the CGWQMN/WUPNET Full and Sub-Networks were used for this analysis. Dissolved chloride, dissolved sulfate, and the chloride/sulfate ratio are the parameters that were examined for this trend analysis. The chloride/sulfate ratio can be used to indicate the origin of ground-water mineralization. In theory, an increasing trend may suggest that vertical flow from seawater (salt-water intrusion) may be the cause. In contrast, a decreasing trend may suggest that vertical flow from deep in the Floridan aquifer (upwelling of mineralized water) could be responsible.

The Wilcoxon Rank-Sum test is a nonparametric statistical test that is used to determine whether one independent group of observations tends to contain larger values than another independent group. The exact form of the Wilcoxon

Rank-Sum test is the appropriate form to use when comparing groups with sample sizes of ten or less (Helsel and Hirsch, 2002), as is the case with the WQMP data set. A nonparametric test was needed to analyze this data since there are a number of outliers in the data set and the data commonly appears skewed as can be seen in the scatterplots. Unlike parametric tests, no assumptions are made as to the frequency distribution of either of the test groups. The data are considered to be independent since there is not a natural structure to the order of observations across groups; in other words, there are no pairings of data between the observations (Helsel and Hirsch, 2002).

The Wilcoxon Rank-Sum test calculates a p-value, which is the significance level attained by the data (Helsel and Hirsch, 2002). If the calculated p-value is less that 0.05, then at the 95% confidence level, the groups are considered to be significantly different.

The water quality data is broken up into a minimum of two-year increments, with the sample year beginning April 20 and ending with April 19. This division was used because the wells sampled during the Full Winter Network sampling event, may have been sampled anytime between the months of November and April. If the calendar year was used, there may be four data points for one well for some years and just two data points per well other years. The Wilcoxon Rank-Sum test requires a minimum of three data points within one group and a minimum of five data points within the other group. With current sampling protocols, it is necessary to use two-year increments to obtain the minimum number of data points per group. There are generally six water quality data points per two-year increment used for this analysis. It was also deemed necessary to create temporal groups that contained five-years of data in order to include wells that are only sampled once per year during the Full Winter Network sampling event. The following temporal groups of data were formed to compare against each other:

2 -Year Temporal Groups

- Temporal Group A (baseline) – April 20, 1993 – April 19, 1995
- Temporal Group B (previous) – April 20, 1999 – April 19, 2001
- Temporal Group C (current) – April 20, 2001 – April 19, 2003

5 -Year Temporal Groups

- Temporal Group D – April 20, 1993 – April 19, 1998
- Temporal Group E – April 20, 1998 – April 19, 2003

The data was grouped this way to look for water quality changes over the period of data collection. Comparisons can be easily made between the past, intermediate, and recent behaviors for the available period of record.

The wells that showed significant changes between baseline and current temporal groups (Group A and Group C), previous and current temporal groups (Group A and. Group B) and Group D and Group E sets were plotted on maps within the SWFWMD boundary (Figures 24 – 41).

Results

The Wilcoxon Rank-Sum test was applied to 90 wells with data for both the baseline and current group (Group A and Group C), 170 wells with data for the previous and current group (Group B and Group C), and 232 wells for Group D and Group E. Of the 90 wells used for the baseline and current group (Group A and Group C) analysis, 22 wells were assigned to the intermediate aquifer, 38 were assigned to the Tampa/Suwannee Zone, and 30 were assigned to the Ocala/Avon Park Zone. Of the 170 wells used for the previous and current group (Group B and Group C) analysis, 55 wells were assigned to the intermediate aquifer, 67 were assigned to the Tampa/Suwannee Zone, and 48 were assigned to the Ocala/Avon Park Zone. Of the 232 wells used for the Group D and Group E analysis, 56 wells were assigned to the intermediate aquifer, 99 were assigned to the Tampa/Suwannee Zone, and 77 were assigned to the Ocala/Avon Park Zone. Table 18 presents a summary of the results of the Wilcoxon Rank-Sum analysis. Tables 19 – 45 include all the results of the analysis for each temporal group.

Intermediate Aquifer System

Figures 24 – 29 illustrate the percent change of the median chloride, sulfate, and chloride/sulfate ratio values for monitor wells completed in the intermediate aquifer system.

Within the intermediate aquifer, three wells (14%) have shown a significant increase in chloride concentration for the baseline group vs. current group (Group A vs. Group C) analysis (Figure 24). Three wells (6%) have shown a significant increase in chloride concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 24). Five wells (9%) have shown a significant increase in chloride concentration for Group D vs. Group E (Figure 25). Monitor wells that demonstrated a significantly increasing chloride trend in the Intermediate aquifer system were located in Hillsborough, Polk, Sarasota, DeSoto, and Charlotte counties.

Within the intermediate aquifer, two wells (9%) have shown a significant increase in sulfate concentration for the baseline group vs. current group (Group A vs. Group C) (Figure 26). Seven wells (13%) have shown a significant increase in sulfate concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 26). Five wells (9%) have shown a significant increase in sulfate concentration for Group D years vs. Group E years (Figure 27). Monitor

wells that displayed a significantly increasing sulfate trend were located in Polk, Hardee, Sarasota, and Charlotte Counties.

Within the intermediate aquifer, three wells (14%) have shown a significant increase and three wells (14%) have shown a significant decrease in chloride/sulfate ratio values for the baseline group vs. current group (Group A vs. Group C) (Figure 28). Three wells (5%) have shown a significant increase and nine wells (16%) have shown a significant decrease in chloride/sulfate ratio values for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 28). Nine wells (16%) have shown a significant increase and seven wells (13%) have shown a significant decrease in chloride/sulfate ratio values for Group D vs. Group E (Figure 29). A majority of the wells that exhibited significantly increasing chloride/sulfate ratio values were located along the coast of Manatee and Sarasota counties. Wells that demonstrated significantly decreasing chloride/sulfate ratio values were located inland from the coast in the counties of Sarasota, Polk, Hardee, Desoto, and Charlotte.

Tampa/Suwannee Zone

Figures 30 - 35 depict the percent change of the median chloride, sulfate, and chloride/sulfate ratio values for well completed in the Tampa to Suwannee Zone of the Upper Floridan aquifer system.

Within the Tampa/Suwannee Zone, eight wells (21%) have shown a significant increase in chloride concentration for the baseline group vs. current group (Group A vs. Group C) (Figure 30). Five wells (7%) have shown a significant increase in chloride concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 30). Twenty wells (20%) have shown a significant increase in chloride concentration for Group D vs. Group E (Figure 31). Monitor wells that demonstrated a significantly increasing chloride trend in the Tampa/Suwannee Zone were located in Pasco, Hernando, Pinellas, Hillsborough, Manatee, and Charlotte counties.

Within the Tampa/Suwannee Zone, three wells (8%) have shown a significant increase in sulfate concentration for the baseline group vs. current group (Group A vs. Group C) (Figure 32). Five wells (7%) have shown a significant increase in sulfate concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 32). Twelve wells (12%) have shown a significant increase in sulfate concentration for Group D vs. Group E (Figure 33). Monitor wells that demonstrated a significantly increasing sulfate trend were located in Polk, Sarasota, Hardee, DeSoto, and Charlotte counties.

Within the Tampa/Suwannee Zone, five wells (13%) have shown a significant increase and seven wells (18%) have shown a significant decrease in chloride/sulfate ratio values for the baseline group vs. current group (Group A vs. Group C) (Figure 34). Two wells (3%) have shown a significant increase in

chloride/sulfate ratio values for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 34). Twenty wells (20%) have shown a significant increase and ten wells (10%) have shown a significant decrease in chloride/sulfate ratio values for Group D vs. Group E (Figure 35). Monitor wells that displayed significantly increasing chloride/sulfate values were located along the coastline of Hernando, Pasco, Pinellas, Hillsborough, Manatee, and Sarasota counties. Monitor wells that showed significantly decreasing chloride/sulfate values were mainly along the coastal margins of Hillsborough, Manatee, and Sarasota counties.

Ocala/Avon Park Zone

Figures 36 - 41 depict the percent change of the median chloride, sulfate, and chloride/sulfate ratio values for wells completed in the Ocala to Avon Park Zone of the Upper Floridan aquifer system.

Within the Ocala/Avon Park Zone, sixteen wells (53%) have shown a significant increase in chloride concentration for the baseline group vs. current group (Group A vs. Group C) (Figure 36). Twelve wells (25%) have shown a significant increase in chloride concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 36). Nineteen wells (25%) have shown a significant increase in chloride concentration for Group D vs. Group E (Figure 37). Wells that demonstrated a significantly increasing chloride trend in the Ocala/Avon Park zone were located in Citrus, Pasco, Pinellas, Hillsborough, Manatee, Sarasota, and DeSoto counties.

Within the Ocala/Avon Park Zone, eight wells (26%) have shown a significant increase in sulfate concentration for the baseline group vs. current group (Group A vs. Group C) (Figure 38). Seven wells (15%) have shown a significant increase in sulfate concentration for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 38). Fourteen wells (18%) have shown a significant increase in sulfate concentration for Group D vs. Group E (Figure 39). Monitor wells that showed a significantly increasing trend in sulfate were located in Citrus, Hernando, Pinellas, Hillsborough, Manatee, and DeSoto counties.

Within the Ocala/Avon Park Zone, twelve wells (40%) have shown a significant increase in chloride/sulfate ratio values for the baseline group vs. current group (Group A vs. Group C) (Figure 40). Ten wells (21%) have shown a significant increase in chloride/sulfate ratio values for the previous group vs. the current group (Group B vs. Group C) analysis (Figure 40). Nineteen wells (25%) have shown a significant increase in chloride/sulfate ratio values for Group D vs. Group E (Figure 41). None of the wells located in the Ocala/Avon Park Zone demonstrated a significant decreasing trend in the chloride/sulfate ratio values. Monitor wells with significantly increasing chloride/sulfate trends were located in Citrus, Hernando, Pasco, Pinellas, Hillsborough, Manatee, and Sarasota

counties and were not limited to the coastal margins of the counties. Several wells were located in DeSoto County.

HYDROCHEMICAL FACIES ANALYSIS

Methods

Wells were identified by the dominant anion present in the water samples for the three aquifer/formation groups previously mentioned (IAS, Tampa/Suwannee and Ocala/Avon Park Zones of the Upper Floridan aquifer). Anions of interest include bicarbonate, chloride, and sulfate. A dominant anion is proportionally greater in abundance that other anions in solution in milliequivalents (meq/L). For example, a sample containing 45 percent bicarbonate, 35 percent chloride and 20 percent sulfate would be classified as bicarbonate water due to the predominance of bicarbonate in solution (WQMP, 2001). Water quality data used for this analysis was collected during the Winter 2003 to 2004 (November 2003 to April 2004) sampling of the CGWQMN/WUPNET.

Upchurch (1999) presented a conceptual model for aquifer water types based upon the dominance of major cations and anions. Three major water types are generally recognized; 1) a sodium-chloride (NaCl) water type which typically represents the transition zone in coastal areas, 2) a calcium-sulfate ($CaSO_4$) water type that represents upwelling of Upper Floridan aquifer water that has been influenced by increased sulfate concentrations at the base of the aquifer. This water type is often located in near-coastal zones, inland of the sodium-chloride facies, and 3) a calcium/magnesium-bicarbonate ($Ca/MgHCO_3$) water type that is typical of Upper Floridan aquifer water quality in inland areas.

Results

The results of the hydrochemical facies analysis are summarized in Table 17. Figures 21 - 23 and Tables 14 -16 are also used to illustrate the results of the hydrochemical facies analysis.

Figures 21 - 23 illustrate a general position of the transition zone for each of the aquifer/formation groups. In the southern portion of the SWFWMD, the west to east transition from sodium-chloride water types to calcium-sulfate is easily recognized in the Tampa to Suwannee and Ocala to Avon Park zones. The intermediate aquifer figure shows more spatially mixed water types that may indicate more localized influence from the transition zone and mineral upwelling.
It is important to note that some well sites have multiple wells that are open to different intervals within the aquifer/formation that they have been assigned. For instance, one well may be open to the lower intermediate while another at the same well site may be open to the upper intermediate. For this report, both of these wells have been assigned to the Intermediate aquifer group. However, it is quite possible for the water types for these wells to differ markedly.

CONCLUSIONS

Wells located in the SWUCA are at risk of contamination by salt-water intrusion and sulfate enriched mineralized water upwelling due to groundwater withdrawals that reduce coastal discharge. These phenomena are enhanced by the high transmissivities of the Upper Floridan aquifer. Wells completed in the surficial and intermediate aquifer systems are not as vulnerable because they are not as deep as the current salt-water/fresh-water transition zone and have lower rates of transmissivity. Previous investigations have shown that even with withdrawal rates remaining stable, the salt-water/fresh-water transition zone has the potential to move as much as one to three miles inland in some regions of the SWFWMD within the next 50 years. (Beach & Schultz, 2000)

Water quality data collected by the Water Quality Monitoring Program of the Resource Data Section have been used to determine if there have been changes in the water quality of the wells in the CGWQMN/WUPNET over the last ten years. The Wilcoxon Rank-Sum test was used to evaluate the data. Table 18 summarizes the results of the analyses performed.

Scatterplots fitted with a LOWESS smooth were used to graphically display CGWQMN/WUPNET water quality data. The graphs are included to allow the reader to see the actual behavior of the chloride and sulfate concentrations in the wells that have been sampled for the CGWQMN/WUPNET. The addition of the LOWESS smooth provides an indication of the overall pattern of the data.

Chloride and Sulfate Trend Analysis

The results of the chloride and sulfate trend analysis revealed that during the last ten years (Group D versus Group E), approximately 25% of the Ocala/Avon Park monitor wells have shown significant increases in chloride. These wells are located in Citrus, Hillsborough, and Manatee counties. Nearly 20% of monitor wells completed in the Tampa/Suwannee Zone have exhibited significant increases in chloride. The increases in chloride in the Tampa/Suwannee Zone are limited to the coastal margins of Pasco county moving south following the coast to Sarasota County. Approximately 9% of intermediate aquifer monitor wells are showing significantly increasing chloride trends. However, it must be noted that 14% of intermediate aquifer wells during this same time period are showing a significantly decreasing trend in chlorides. The adversely affected intermediate wells seem to be limited to the most southern portions of the SWFWMD, in Sarasota, DeSoto, and Charlotte counties where localized land-uses may be contributing to the upwelling of transition zone waters.

Using the Baseline versus Current group (Group A vs. Group C) analysis, the chloride increases are 53% for the Ocala/Avon Park wells, 21% for the Tampa/Suwannee wells and 14% for the Intermediate aquifer system. This can be compared against the chloride percent increase for the Baseline versus

Current group from the previous CGWQMN report analysis: 29% for the Ocala/Avon Park wells, 11% for the Tampa/Suwannee wells and 0% for the Intermediate aquifer system. This may suggest that continued saltwater intrusion is occurring at increased rates. However, it must be noted that this analysis shows the worst-case scenario for increasing chloride concentrations. The Group D vs. Group E, takes all data points for the ten-year period into consideration and includes wells that may not have had enough data points for the Baseline vs. Current group (Group A vs. Group C) analysis. Therefore, Group D versus Group E may represent a better regional depiction of the trends.

The Previous versus Current group (Group B vs. Group C) analysis failed to show the increasing trends in chloride and sulfate as with the other previously mentioned group analyses for the Intermediate and Tampa/Suwannee Zone groups. However, even during this time frame, 25% of the wells in the Ocala/Avon Park Zone show significantly increasing chlorides and 15% show significantly increasing sulfate concentrations.

The Ocala/Avon Park wells are still at the greatest risk for contamination due to salt-water intrusion; however, Tampa/Suwannee and intermediate aquifer wells are starting to show increasing concentrations of dissolved minerals. However, it must be noted that the results of the trend analysis show increasing as well as decreasing chloride and sulfate trends in both the Tampa/Suwannee zone and intermediate aquifer system. This would suggest localized water quality degradation in both of these formations as opposed to regional water quality degradation as in the Ocala/Avon Park zone. The degrading water quality in some wells may be a precursor to a more widespread problem. Degradation of water quality caused by salt-water intrusion first affects deeper aquifer formations and then moves up through the aquifer as the transition zone moves inland.

Chloride/Sulfate Ratio Trend Analysis

The results of the Ocala/Avon Park Zone chloride/sulfate ratio analysis for all temporal group comparisons suggest that the cause of the increasing chloride and sulfate trends in this zone is saltwater intrusion. All temporal group comparisons show an increasing trend for the chloride/sulfate ratio in this flow zone. Moreover, there was no indication of a decreasing trend for any of the temporal group comparisons, which is another indication that saltwater intrusion is the main cause of increased mineralization in the Ocala/Avon Park zone of the Upper Floridan aquifer.

The results of the chloride/sulfate ratio analysis for the intermediate aquifer and the Tampa/Suwannee Zone were not as conclusive as the Ocala/Avon Park Zone results. The results for both zones do not show a consistent increasing or decreasing trend between temporal groups, which suggests that the cause for water quality degradation within these formations varies spatially. The influence of the transition zone is not consistent throughout these flow zones and localized

land-use presumably influences the vertical movement of transition zone waters in these zones.

In the intermediate aquifer system, the inconsistency in trends may also be explained by the complexity of the intermediate aquifer and the fact that this analysis did not divide the intermediate aquifer wells into discrete flow zones (i.e. permeable zone 1, permeable zone 2, etc) before the statistical analysis was performed. The Hydrologic Evaluation section of the SWFWMD is in the process of completing a more in-depth study on trends within the intermediate aquifer system. The preliminary results of this investigation have concluded that there is localized water quality degradation of the intermediate aquifer, but at this time there is no evidence to suggest that movement of the salt-water/fresh-water transition zone is regionally affecting the intermediate aquifer system (Basso and Hood, 2004). The chloride/sulfate ratio results in this report show significantly increasing and decreasing ratios, which support the conclusion that water quality degradation in the intermediate aquifer varies spatially.

Future Reports

This report represents the fifth volume of the Coastal Ground-Water Quality Monitoring Network report (the first to include the WUPNET) that the WQMP has produced since 1991. Earlier volumes were produced between 1-3 years apart. With the addition of new wells and changes to statistical methods, the time needed to produce the report dramatically increased. For this reason, it became necessary to increase the time interval between reports. Currently, the WQMP plans to produce a new volume approximately every 4 years. However, key wells that have demonstrated trends are tracked on a regular basis following each sample collection event.

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Table 1. Levy County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN	
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*
1	WEL	639	373	0	290112082371101	CE 5	290112.977	823711.285	125	84	OCALA/AVON PARK	X	
2	WEL	1051	769	0	290118082364101	CE 70	290119.615	823642.567	67	62	OCALA/AVON PARK	X	
3	WEL	947	681	0	290200082432301	ROMP 124 DEEP	290200.955	824323.223	250	200	OCALA/AVON PARK	X	
4	WEL	385	119	0	290230082412501	ROMP TR 125 CRACKERT	290229.483	824121.504	280	270	OCALA/AVON PARK	X	

Table 2. Citrus County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN	
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*
1	WEL	1243	782	0	284939082344701	BAPTIST CHURCH PASTORIUM	285000.544	823440.224	60	UNK	OCALA/AVON PARK	X	
2	WEL	1050	768	0	290216082292001	CE77	290217.758	822919.394	190	171	OCALA/AVON PARK	X	
3	WEL	465	199	0	284317082330601	CHASSAHOWITZKA #1	284318.932	823306.362	176	166	OCALA/AVON PARK	X	
4	WEL	455	193	0	285421082361602	CRYSTAL RIVER DEEP	285421.959	823613.632	176	162	OCALA/AVON PARK	X	
5	WEL	455	189	0	285421082361601	CRYSTAL RIVER SHALLOW	285422.502	823613.714	53	3	OCALA/AVON PARK	X	
6	WEL	1240	779	0	285220082354401	CRYSTAL SHORES	285223.546	823534.641	129	96	OCALA/AVON PARK	X	
7	WEL	1241	780	0	285224082354901	CRYSTAL SHORES ESTATES	285221.345	823539.264	155	30	OCALA/AVON PARK	X	
8	WEL	2209	1552	0	284758082343901	CSPR-1 FL HOMOSASSA ATTRACTION	284758.706	823439.294	61	52	OCALA/AVON PARK	X	
9	WEL	2067	13281	0	284316082342802	CSPR-3 FLORIDAN	284316.192	823428.432	67	25	OCALA/AVON PARK	X	
10	WEL	1963	13122	0	284751082362401	CSPR-4 NATURES RESORT UP FL	284751.072	823624.255	43	18	OCALA/AVON PARK	X	X
11	WEL	845	579	0	285737082413001	FL POWER CORP # 2	285733.763	824110.322	47	42	OCALA/AVON PARK	X	
12	WEL	752	486	0	285737082400601	FPC WELL 3 NR CRYSTAL R	285733.664	824005.302	51.8	67	OCALA/AVON PARK	X	
13	WEL	1271	810	0	284736082342901	HOMO SWD BRADSHAW 2	284734.716	823429.470	100	92	OCALA/AVON PARK	X	
14	WEL	894	628	0	284551082345301	HOMOSASSA WELL 3	284550.649	823453.662	99	81	OCALA/AVON PARK	X	
15	WEL	1107	11609	0	285554082373001	HRS 15 COON	285556.751	823731.511	58	56	OCALA/AVON PARK	X	
16	WEL	1108	11851	0	284243082343201	HRS 19A ZOLINGER	284239.485	823429.127	78	72	OCALA/AVON PARK	X	
17	WEL	978	712	0	284803082351701	NORRIS WL AT HOMOSASSA	284804.579	823517.398	50	44	OCALA/AVON PARK	X	
18	WEL	748	482	0	285102082361001	OZELLO WL 4 NR CRYSTAL R	285103.022	823611.466	75	60	OCALA/AVON PARK	X	
19	WEL	31	10730	0	285112082354401	ROMP TR 21-2 DP	285111.872	823548.380	111	105	OCALA/AVON PARK	X	
20	WEL	678	412	0	285234082341901	ROMP TR 21-3 AVON PA	285235.329	823417.136	252	240	OCALA/AVON PARK	X	
21	WEL	726	460	0	284457082330302	SUGARMILL MZ1 DUAL DEEP	284453.912	823303.163	358	340	OCALA/AVON PARK	X	
22	WEL	726	460	1	284457082330301	SUGARMILL MZ1 DUAL SH	284453.912	823303.163	155	75	OCALA/AVON PARK	X	
23	WEL	29	10728	0	290107082400501	USGS WELL CE 88	290108.112	824004.597	58	19	OCALA/AVON PARK	X	

Table 3. Hernando County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN	
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*
1	WEL	1370	909	0	284130082353501	BETTY JAY SPRING WELL	284114.856	823536.843	60	48	TAMPA/SUWANNEE	X	
2	WEL	2068	13278	0	283111082375801	CSPR-6 FL JENKINS CREEK	283111.554	823758.003	95	43	TAMPA/SUWANNEE	X	X
3	WEL	2068	17359	0	283111082375802	CSPR-6 WQ INTERFACE MONITOR	283111.487	823757.806	160	135	OCALA/AVON PARK	X	X
4	WEL	1375	914	0	282923082380301	HERNANDO BEACH SUPPLY	282921.544	823758.021	195	107	OCALA/AVON PARK	X	
5	WEL	1191	11694	0	283257082343201	HRS 54 KOSTER	283255.148	823430.105	120	84	OCALA/AVON PARK	X	
6	WEL	1402	941	0	282600082392601	MAGNOLIA SPRINGS WELL	282605.595	823909.546	110	85	OCALA/AVON PARK	X	
7	WEL	1408	947	0	282956082333001	OAKHILL GOLF COURSE 1	283003.297	823327.468	485	78	OCALA/AVON PARK	X	
8	WEL	282	16	0	283203082370201	PRESBYTERIAN YOUTH CAMP (ROMP W	283202.799	823701.075	75	66	TAMPA/SUWANNEE	X	X
9	WEL	630	364	0	282742082375901	ROMP TR 18-1	282742.504	823758.860	580	445	OCALA/AVON PARK	X	
10	WEL	7	10745	0	282659082391102	ROMP TR 18-2 LOWER AV PK	282700.347	823910.864	525	505	OCALA/AVON PARK	X	
11	WEL	7	10745	2	282659082391104	ROMP TR 18-2 U AVON PARK	282700.338	823910.891	480	447	OCALA/AVON PARK	X	
12	WEL	2313	17597	0	282750082391001	ROMP TR 18-2A UFA	282750	823910	209	153	OCALA/AVON PARK	X	X
13	WEL	44	10794	1	282613082381701	ROMP TR 18-3 L AVON PARK	282617.321	823811.050	622	592	OCALA/AVON PARK	X	
14	WEL	44	10794	0	282613082381704	ROMP TR 18-3 U AVON PARK	282617.314	823811.052	510	480	OCALA/AVON PARK	X	
15	WEL	745	479	0	283243082365701	ROMP TR 19-2 DEEP	283242.445	823656.215	302	277	OCALA/AVON PARK	X	
16	WEL	2083	13344	0	283957082342901	ROMP TR 20-2	283956.994	823426.361	453	443	OCALA/AVON PARK	X	X
17	WEL	2082	13371	0	283929082331102	ROMP TR 20-3 UFM	283929.536	823311.353	200	100	OCALA/AVON PARK	X	X
18	WEL	2082	13370	0	283929082331101	ROMP TR 20-3 UFWQM	283929.797	823311.366	540	520	OCALA/AVON PARK	X	X
19	WEL	2864	2207	0	283138082352401	WEEKI WACHEE 2 UFA UFLOR	283138.20	823524.90	570	510	OCALA/AVON PARK	X	X
20	WEL	1074	2299	0	283113082344801	WEEKI WACHEE 3 UFA UFLOR	283113.50	823448.50	590	540	OCALA/AVON PARK	X	X
21	WEL	2373	17560	0	283101082360401	WEEKI WACHEE PRESERVE #4	283103.159	823602.031	510	480	OCALA/AVON PARK	X	X
22	WEL	812	546	0	283527082365701	WEEKI WELL 2	283527	823657	125	123	OCALA/AVON PARK	X	X
23	WEL	472	206	0	283529082355801	WEEKI WELL 3	283517.190	823556.842	140	133	OCALA/AVON PARK	X	X
24	WEL	1410	949	0	283253082322701	WHCWS MONITOR #1 DP	283253.200	823226.746	613	598	OCALA/AVON PARK	X	

Table 4. Pasco County Well Specifications

Map No.	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN	
	Type	Station	Site	Seq					TD	CD		Full	Sub
1	WEL	62	10796	0	281238082425601	ANCLOTE ELEMENTARY	281239.267	824254.680	98	88	TAMPA/SUWANNEE	X	
2	WEL	1646	1185	0	282228082402001	CITY OF HUDSON	282229.218	824020.947	100	47	TAMPA/SUWANNEE	X	
3	WEL	508	242	0	282229082405801	COASTAL PASCO #2	282230.060	824056.116	178	156	OCALA/AVON PARK	X	
4	WEL	1655	1194	0	281642082440201	COASTAL PASCO #4	281641.561	824401.794	75	68	TAMPA/SUWANNEE	X	
5	WEL	1962	13121	0	282457082391201	CSPR-7 ARIPEKA UP FL	282457.363	823912.634	110	60	TAMPA/SUWANNEE	X	
6	WEL	1651	1190	0	282418082393702	GRACE MEMORIAL #2	282425.728	823937.783	135	50	TAMPA/SUWANNEE	X	
7	WEL	57	10763	0	281440082423301	GULF MIDDLE HIGH	281442.066	824232.965	35	15	TAMPA/SUWANNEE	X	
8	WEL	2400	18047	0	282216082405501	HUDSON FIRE STATION	282216.60	824055.50	136	119	TAMPA/SUWANNEE	X	X
9	WEL	1656	1195	0	281223082442301	METHODIST CHURCH	281220.649	824420.601	37	21	TAMPA/SUWANNEE	X	
10	WEL	64	10771	0	281142082424001	NWHWRAP-3	281142.512	824238.945	150	40	TAMPA/SUWANNEE	X	X
11	WEL	64	10770	0	281142082424002	NWHWRAP-3D	281142.471	824239.509	411	363	OCALA/AVON PARK	X	X
12	WEL	1640	1179	0	281652082423301	PORT RICHEY CITY DP	281651.102	824232.340	200	104	TAMPA/SUWANNEE	X	
13	WEL	1020	11006	0	281518082424301	ROMP TR 16-2	281518.453	824240.332	88	68	TAMPA/SUWANNEE	X	X
14	WEL	1020	10764	2	281518082424302	ROMP TR 16-2 SHALLOW TRIPLE ZONE	281518.355	824240.402	230	210	TAMPA/SUWANNEE	X	X
15	WEL	2666	34728	0	281542082405601	ROMP TR 16-3 UPPER FLORIDAN	281542.13	824056.40	515	494	OCALA/AVON PARK	X	
16	WEL	2831	2100	0	281526082395801	ROMP TR 16-4 UFA	281526.38	823958.50	780	740	OCALA/AVON PARK	X	X
17	WEL	1012	746	0	281917082420901	ROMP TR 17-1 DEEP	281917.124	824206.715	139	131	TAMPA/SUWANNEE	X	
18	WEL	1895	1352	0	281128082445501	TAHITIAN DEEP WELL	281128.200	824454.600	100	35	TAMPA/SUWANNEE	X	
19	WEL	1653	1192	0	282553082395301	WHITING WELL DEEP	282551.992	823951.796	165	95	TAMPA/SUWANNEE	X	
20	WEL	1653	1354	0	282553082395302	WHITING WELL SHALLOW	282553.003	823950.916	54	?	TAMPA/SUWANNEE	X	
21	WEL	1638	1177	0	281948082415301	WITHLACOOCHEE ELECTRIC CO	281950.221	824149.745	94	84	TAMPA/SUWANNEE	X	

Table 5. Pinellas County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN	
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*
1	WEL	1673	1212	0	275138082450301	BARDMOOR DEEP WELL	275140.763	824502.708	200	106	TAMPA/SUWANNEE	X	
2	WEL	1840	11868	0	275008082442901	BUTLER S C B S15 #1	275009.587	824428.705	146	105	TAMPA/SUWANNEE	X	X
3	WEL	1670	1209	0	280111082453501	CLEARWATER 15 (DUNEDIN 6)	280111.455	824537.182	175	76	TAMPA/SUWANNEE	X	
4	WEL	563	297	0	280022082424901	CLEARWATER WELL 67	280022.241	824248.708	297	92	TAMPA/SUWANNEE	X	
5	WEL	1675	1214	0	280015082471201	DUNEDIN #4	280013.652	824715.541	170	35	TAMPA/SUWANNEE	X	
6	WEL	116	10822	0	280449082412702	EAST LAKE WOODLANDS FL	280449.563	824126.601	107	97	TAMPA/SUWANNEE	X	
7	WEL	1678	1217	0	274904082423601	MILLER WELL- KENNETH CITY	274903.347	824236.548	251	143	TAMPA/SUWANNEE	X	
8	WEL	1664	1356	0	274935082370207	NORTHEAST INJECTION B-11	274936.622	823701.628	150	100	TAMPA/SUWANNEE	X	
9	WEL	131	10838	0	280208082401101	NWHWRAP 18-F	280208.689	824010.887	62	51	TAMPA/SUWANNEE	X	
10	WEL	78	10784	0	280725082412801	NWHWRAP-1D	280724.034	824125.387	629	571	OCALA/AVON PARK	X	X
11	WEL	11	10875	0	275458082464002	ROMP TR 13-1 SUWANNEE	275458.881	824639.197	264	254	TAMPA/SUWANNEE	X	
12	WEL	167	10877	0	275430082431402	ROMP TR 13-2X SUWANNEE	275432.167	824313.485	279	269	TAMPA/SUWANNEE	X	
13	WEL	9	10843	1	280132082452802	ROMP TR 14-2 TAMPA	280133.218	824527.078	218	213	TAMPA/SUWANNEE	X	
14	WEL	8	10845	1	280118082435002	ROMP TR 14-3 SWNN	280119.276	824344.402	319	299	TAMPA/SUWANNEE	X	
15	WEL	611	345	0	280753082465201	ROMP TR 15-1 TAMPA	280802.936	824649.726	87	68	TAMPA/SUWANNEE	X	
16	WEL	664	398	0	280747082452001	ROMP TR 15-2 TAMPA	280744.468	824527.512	55	50	TAMPA/SUWANNEE	X	
17	WEL	77	10783	0	280734082442101	ROMP TR 15-3 SWNN	280732.939	824420.207	150	147	TAMPA/SUWANNEE	X	
18	WEL	71	10777	0	280923082433602	SALT BAYOU FL-JOHNSON	280926.198	824337.312	74	64	TAMPA/SUWANNEE	X	
19	WEL	1672	1211	0	274912082441001	SOUTH CROSS BAYOU W S9	274913.083	824410.529	150		TAMPA/SUWANNEE	X	
20	WEL	1014	748	0	280907082424801	TARPON ROAD DEEP WELL	280906.812	824245.865	305	205	OCALA/AVON PARK	X	

Table 6. Hillsborough County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	767	501	0	274114082303701	CLAPROD WL NR RUSKIN	274114.049	823034.534	143	30	TAMPA/SUWANNEE	X	X	
2	WEL	2076	13343	0	280055082210701	CNB #3	280054.744	822106.938	199	128	TAMPA/SUWANNEE	X		
3	WEL	1552	1336	0	280058082252003	HILLS CO ASR DMW-1	280059.615	822521.269	726	623	OCALA/AVON PARK	X	X	
4	WEL	1552	1091	0	280058082252001	HILLS CO ASR SMW-1	280100.998	822521.038	180	150	TAMPA/SUWANNEE	X		
5	WEL	1552	1335	0	280058082252002	HILLS CO ASR SZMW-1	280103.326	822520.647	508	455	OCALA/AVON PARK	X		
6	WEL	1445	984	0	274303082280901	HILLSBOROUGH WELL 71	274315.174	822811.543	170	60	UNKNOWN			X
7	WEL	1422	961	0	275443082224001	JAMES BYRD NR RIVERVIEW	275443.613	822239.508	103		TAMPA/SUWANNEE	X		
8	WEL	695	429	0	274837082232901	KUSHMER WL AT ADAMSVILLE	274838.974	822328.419	145	41	TAMPA/SUWANNEE	X		
9	WEL	1454	993	0	275955082335801	LIBRARY DP WL ON PAULA	275956.917	823358.481	180	94	TAMPA/SUWANNEE	X		
10	WEL	1431	970	0	275458082310301	MARTIN MURPHEY	275457.600	823103.083	205	103	TAMPA/SUWANNEE	X		
11	WEL	147	10856	0	280033082284901	NWHWRAP-2	280033.983	822847.548	55	40	TAMPA/SUWANNEE	X	X	
12	WEL	147	10855	0	280033082284902	NWHWRAP-2D	280034.009	822848.490	771	717	OCALA/AVON PARK	X	X	
13	WEL	120	10826	0	280411082364301	NWHWRAP-4D	280411.606	823642.316	1109	998	OCALA/AVON PARK	X	X	
14	WEL	909	643	0	275130082194501	OAKRIDGE #46 - RIVERCREST	275130.038	821944.305	175	47	TAMPA/SUWANNEE	X		
15	WEL	353	87	0	274031082150401	ROMP 123 DEEP	274031.715	821504.672	620	117	TAMPA/SUWANNEE			X
16	WEL	197	489	0	274427082083703	ROMP 48 AVON PARK	274427.173	820832.952	815	780	OCALA/AVON PARK			X
17	WEL	197	10910	0	274427082083701	ROMP 48 FLORIDAN	274427.108	820833.237	541	215	TAMPA/SUWANNEE			X
18	WEL	197	10911	0	274427082083702	ROMP 48 HAWTHORN	274427.090	820833.260	61	46	UNKNOWN			X
19	WEL	191	37	0	274546082151403	ROMP 49 AVON PARK	274546.535	821515.756	1140	925	OCALA/AVON PARK			X
20	WEL	191	39	0	274546082151405	ROMP 49 INT	274546.704	821515.565	290	230	UNKNOWN			X
21	WEL	191	10903	0	274546082151404	ROMP 49 SWN	274546.262	821515.409	526	410	TAMPA/SUWANNEE			X
22	WEL	201	394	0	274240082212703	ROMP 50 AVON PARK	274241.322	822125.549	1430	1393	OCALA/AVON PARK	X		
23	WEL	201	10914	0	274240082212701	ROMP 50 FLORIDAN	274241.419	822125.568	562	200	TAMPA/SUWANNEE			X
24	WEL	1090	11726	0	274026082252101	ROMP 51 - ELAPP	274032.703	822518.603	875	365	OCALA/AVON PARK	X	X	
25	WEL	1034	11413	0	275110082185501	ROMP 62 - CAMPO	275129.793	821852.471	692	625	OCALA/AVON PARK	X		
26	WEL	121	10827	0	280320082203801	ROMP 67-1 AVON PARK	280322.471	822037.405	490	440	OCALA/AVON PARK	X	X	
27	WEL	156	390	0	275926082123403	ROMP DV-1 SUWANNEE	275932.85	821233.69	345	160	TAMPA/SUWANNEE	X	X	
28	WEL	172	10883	0	275402082222701	ROMP TR 10-2 DEEP	275401.505	822223.006	125	115	TAMPA/SUWANNEE			X
29	WEL	161	10870	0	275705082222001	ROMP TR 11-2	275706.205	822211.969	315	300	TAMPA/SUWANNEE	X		
30	WEL	1086	12950	0	275820082324602	ROMP TR 12-1 DP (NEW)	275819.142	823250.128	132	118	TAMPA/SUWANNEE	X		
31	WEL	146	10854	0	280005082324201	ROMP TR 12-3 (NEW)	280006.155	823244.044	340	295	TAMPA/SUWANNEE	X		
32	WEL	199	10912	0	274421082275401	ROMP TR 9-1	274422.414	822749.858	288	124	UNKNOWN	X		
33	WEL	186	10898	0	274554082233801	ROMP TR 9-2 AP	274555.288	822336.031	765	714	OCALA/AVON PARK			X
34	WEL	186	10899	0	274554082233802	ROMP TR 9-2 OCALA	274554.756	822334.977	675	622	OCALA/AVON PARK	X	X	
35	WEL	186	10900	0	274554082233803	ROMP TR 9-2 SWNN	274555.098	822335.337	464	247	TAMPA/SUWANNEE			X
36	WEL	186	10901	0	274554082233804	ROMP TR 9-2 TAMPA	274555.239	822335.733	148	118	TAMPA/SUWANNEE			X
37	WEL	4	10909	1	274428082251503	ROMP TR 9-3 AP	274427.540	822522.201	779	764	OCALA/AVON PARK			X
38	WEL	4	10909	0	274428082251502	ROMP TR 9-3 SWNN	274427.540	822522.213	525	289	TAMPA/SUWANNEE			X
39	WEL	1091	11727	0	274552082220501	ROMP TR AB-3	274553.449	822204.513	885	865	OCALA/AVON PARK	X	X	
40	WEL	1432	971	0	275611082211701	SEABOARD UTIL #8	275611.455	822118.087	302	71	TAMPA/SUWANNEE	X		
41	WEL	411	146	0	280053082350202	SHELDON RD DEEP	280054.211	823500.170	325	315	OCALA/AVON PARK	X	X	
42	WEL	591	325	0	275724082221001	SWFWMD WELL AT S-160	275526.260	822211.475	240	85	TAMPA/SUWANNEE	X	X	
43	WEL	126	10832	0	280246082383601	TAMPA BAY DOWNS WRAP-57F	280248.009	823844.172	60	49	TAMPA/SUWANNEE	X		
44	WEL	1556	1095	0	275316082285901	TAMPA YACHT & STABLES	275318.051	822857.984	85	30	TAMPA/SUWANNEE	X		
45	WEL	435	169	0	280055082222701	TBC - 09	280055.122	822226.605	110	68	TAMPA/SUWANNEE	X		

Table 6. Hillsborough County Well Specifications (continued)

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
46	WEL	786	520	0	280112082270101	TOURIST CLUB WL AT SUL SP	280113.559	822702.477	318	80	TAMPA/SUWANNEE	X		
47	WEL	595	329	0	275627082150801	TURNER WELL	275626.938	821508.728	342	60	TAMPA/SUWANNEE			X
48	WEL	969	703	0	275215082201901	US PHOSPHORIC	275217.103	822019.038	658	653	OCALA/AVON PARK	X		
49	WEL	1519	11724	0	280155082340001	WCRWSA RMP 13PZ	280155.403	823358.855	662	612	OCALA/AVON PARK	X	X	
50	WEL	1446	985	0	274928082225501	WELL 220 AT ADAMSVILLE	274926.931	822253.197	235	33	TAMPA/SUWANNEE	X		
51	WEL	1427	966	0	274454082260001	WOLF BRANCH #5	274457.293	822558.810	417	27	TAMPA/SUWANNEE	X		

Table 7. Polk County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	871	605	0	274440081314801	COLEY WELL	274439.766	813146.088	319	208	TAMPA/SUWANNEE			X
2	WEL	802	536	0	274155081573201	FT GREEN SPRINGS RD WELL	274154.678	815729.383	300	200	INTERMEDIATE AQUIFER			X
3	WEL	1689	1228	0	274908081480901	HOMELAND DEP #4	274909.741	814804.343	202	56	UNKNOWN			X
4	WEL	162	602	0	275600081331502	MOUNTAIN LAKE CORP N FL	275559.771	813314.533	260	162	TAMPA/SUWANNEE			X
5	WEL	179	10891	0	274848081302201	MURRAY ROAD FL	274850.575	813022.691	263	245	TAMPA/SUWANNEE			X
6	WEL	634	368	0	273851082031501	ROMP 40 AVON PARK	273852.267	820314.805	1140	408	OCALA/AVON PARK	X		
7	WEL	634	370	0	273851082031502	ROMP 40 HAWTHORNE	273852.393	820314.732	180	76	INTERMEDIATE AQUIFER			X
8	WEL	296	33	0	274547081470903	ROMP 45 AVON PARK	274551.569	814709.953	757	680	OCALA/AVON PARK			X
9	WEL	296	30	0	274547081470901	ROMP 45 HAWTHORNE	274551.275	814709.838	192	110	INTERMEDIATE AQUIFER			X
10	WEL	296	32	0	274547081470902	ROMP 45 SUWANNEE	274551.546	814710.039	440	330	TAMPA/SUWANNEE			X
11	WEL	170	10881	0	275411081372001	ROMP 57-1 FLORIDAN	275412.898	813721.131	634	160	TAMPA/SUWANNEE			X
12	WEL	170	10882	0	275411081372002	ROMP 57-2 HAWTHORNE	275413.036	813721.097	140	95	INTERMEDIATE AQUIFER			X
13	WEL	163	10872	0	275511081353802	ROMP 58 OCALA	275511.304	813538.150	330	155	OCALA/AVON PARK			X
14	WEL	779	518	0	275314081514203	ROMP 59 U HAWTHORN	275302.287	815151.128	60	50	INTERMEDIATE AQUIFER			X
15	WEL	285	19	0	275326081585801	ROMP 60 DEEP	275327.130	815856.580	710	237	TAMPA/SUWANNEE			X
16	WEL	192	601	0	274545081342502	ROMP CL-3 INTERMEDIATE	274545.219	813423.462	197	140	UNKNOWN			X
17	WEL	138	10846	0	280115081352002	SWANN RD FL	280120.876	813513.525	200	178	TAMPA/SUWANNEE			X

Table 8. Manatee County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	408	142	0	271832082064801	EDGEVILLE DEEP #3	271833.611	820647.960	600	487	TAMPA/SUWANNEE			X
2	WEL	1568	1107	0	273253082072801	ESTECH HAWTHORNE 44	273252.065	820728.026	250	145	INTERMEDIATE AQUIFER			X
3	WEL	2045	13240	0	272656082095801	FALKNER FARMS #1	272656.14	820958.30	1300	600	OCALA/AVON PARK			X
4	WEL	919	653	0	273718082315501	FL POWER & LIGHT WEL	273718.027	823154.968	950	104	TAMPA/SUWANNEE	X		
5	WEL	1565	1104	0	273347082354101	HORSE SHOE LP TERRA CEIA	273348.092	823539.346	423	22	UNKNOWN	X		
6	WEL	1910	1372	0	273825082191701	LITTLE MANATEE RIVER WELL	273825	821917	490	160	TAMPA/SUWANNEE			X
7	WEL	738	472	0	273134082344601	MANATEE FAIRGROUNDS	273135.363	823445.498	273	216	UNKNOWN	X		
8	WEL	1566	1105	0	272807082401501	MANATEE FRUIT #3	272809.520	824013.331	492	262	TAMPA/SUWANNEE			X
9	WEL	1571	1110	0	272738082384701	MANATEE FRUIT-MIDWAY	272739.628	823845.975	511	415	TAMPA/SUWANNEE	X		
10	WEL	1573	1112	0	272705082373501	MANATEE INJECTION WELL	272702.364	873742.505	1143	980	OCALA/AVON PARK	X	X	
11	WEL	1570	1109	0	272735082083401	MYAKKA HEAD #5 USGS	272735.649	820835.848	560	514	TAMPA/SUWANNEE	X		
12	WEL	1811	11728	0	273504082283801	N CO. TREAT. OLD SUP	273501.344	822840.774	700	340	TAMPA/SUWANNEE			X
13	WEL	1569	1108	0	273055082394701	PALMA SOLA-W DAVIS	273054.360	823946.228	246	196	UNKNOWN			X
14	WEL	1563	1102	0	272405082072501	PATRICIA GALLAGHER	272405	820725	250	158	INTERMEDIATE AQUIFER			X
15	WEL	1567	1106	0	272949082404001	PERICO ISLAND WELL	272950.124	824038.269	600	170	TAMPA/SUWANNEE	X	X	
16	WEL	913	17416	0	271906082112405	ROMP 23 PZ2	271853.394	821039.212	250	175	INTERMEDIATE AQUIFER			X
17	WEL	913	647	0	271906082112401	ROMP 23-1 DEEP	271853.352	821039.274	1000	904	OCALA/AVON PARK			X
18	WEL	769	503	0	272814082034801	ROMP 32 AVON PARK	272815.010	820350.219	1215	909	OCALA/AVON PARK			X
19	WEL	769	506	0	272814082034802	ROMP 32 SUWANNEE	272815.033	820350.404	592	560	TAMPA/SUWANNEE			X
20	WEL	564	298	0	272728082152901	ROMP 33 AVON PARK	272728.385	821525.661	1600	1460	OCALA/AVON PARK			X
21	WEL	564	300	0	272728082152903	ROMP 33 INT	272728.224	821525.546	290	215	INTERMEDIATE AQUIFER			X
22	WEL	564	299	0	272728082152902	ROMP 33 SWNN	272728.063	821525.420	750	400	TAMPA/SUWANNEE			X
23	WEL	1036	11449	0	273521082150501	ROMP 39 AVON PARK	273519.415	821504.965	1120	950	OCALA/AVON PARK			X
24	WEL	1036	11450	0	273521082150503	ROMP 39 INTERMEDIATE	273519.345	821505.347	205	130	INTERMEDIATE AQUIFER			X
25	WEL	1036	11451	0	273521082150502	ROMP 39 SWNN	273519.352	821504.994	704	524	TAMPA/SUWANNEE			X
26	WEL	553	287	0	272510082345701	ROMP TR 7-1	272510.760	823456.792	340	320	TAMPA/SUWANNEE			X
27	WEL	1033	11389	0	272612082330101	ROMP TR 7-2 DEEP FL	272614.821	823300.925	1022	957	OCALA/AVON PARK	X	X	
28	WEL	1033	11391	0	272612082330103	ROMP TR 7-2 LOWER INT	272614.036	823300.903	290	200	INTERMEDIATE AQUIFER	X		
29	WEL	1033	11390	0	272612082330102	ROMP TR 7-2 SH FL	272614.015	823300.896	465	358	TAMPA/SUWANNEE	X		
30	WEL	1033	11392	0	272612082330104	ROMP TR 7-2 UP HAWTHORN	272614.036	823300.903	105	60	INTERMEDIATE AQUIFER	X		
31	WEL	211	10927	0	272539082292001	ROMP TR 7-4 AP	272539.796	822920.953	1250	1162	OCALA/AVON PARK			X
32	WEL	211	10925	0	272539082292004	ROMP TR 7-4 HAWTH	272540.132	822920.680	268	213	INTERMEDIATE AQUIFER			X
33	WEL	211	10926	0	272539082292002	ROMP TR 7-4 SWNN	272540.317	822920.825	800	560	TAMPA/SUWANNEE			X
34	WEL	211	411	0	272539082292003	ROMP TR 7-4 TAMPA	272540.084	822920.706	500	380	TAMPA/SUWANNEE	X		
35	WEL	5	257	0	273458082324707	ROMP TR 8-1 INT	273459.661	823245.972	160	100	INTERMEDIATE AQUIFER			X
36	WEL	5	10919	0	273458082324706	ROMP TR 8-1 OCALA	273459.584	823245.911	670	627	OCALA/AVON PARK	X	X	
37	WEL	5	259	0	273458082324705	ROMP TR 8-1 SWNN	273459.353	823246.079	515	390	TAMPA/SUWANNEE			X
38	WEL	5	10920	0	273458082324703	ROMP TR 8-1 U AV PK	273459.770	823245.740	940	900	OCALA/AVON PARK			X
39	WEL	2190	17155	0	273433082305401	ROMP TR 8-2 AVON PARK	273432.88	823054.36	967	920	OCALA/AVON PARK	X	X	
40	WEL	495	229	0	273159082373101	SNEAD'S ISLAND	273159.519	823730.113	525	200	TAMPA/SUWANNEE	X	X	
41	WEL	375	109	0	272404082161701	VERNA T WELL O-1	272405.120	821616.186	480	140	UNKNOWN			X

Table 9. Hardee County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	WUPNET
	Type	Station	Site	Seq					TD	CD		
1	WEL	1035	758	0	273818081501001	CARGILL FA-1	273819.345	815012.806	918	408	TAMPA/SUWANNEE	X
2	WEL	848	582	0	272538081350802	CREWSVILLE UP INT-AG	272544.643	813522.819	116	96	UNKNOWN	X
3	WEL	2188	17313	0	272159082002502	ROMP 25 LILY ARCADIA	272159.108	820025.388	145	105	INTERMEDIATE AQUIFER	X
4	WEL	2188	17258	0	272159082002504	ROMP 25 LILY AVON PARK	272159.250	820025.312	1785	960	OCALA/AVON PARK	X
5	WEL	2188	17312	0	272159082002503	ROMP 25 LILY SUWANNEE	272159.457	820025.422	676	300	TAMPA/SUWANNEE	X
6	WEL	619	353	0	272728081474701	ROMP 30 AVON PARK	272733.394	814748.122	1265	380	OCALA/AVON PARK	X
7	WEL	619	354	0	272728081474702	ROMP 30 TAMPA	272733.455	814747.974	316	280	TAMPA/SUWANNEE	X
8	WEL	209	41	0	272714081545902	ROMP 31 HAWTHORN	272715.001	815458.573	350	130	INTERMEDIATE AQUIFER	X
9	WEL	302	36	0	273156081451401	ROWELL DEEP	273156.220	814516.812	267	39	INTERMEDIATE AQUIFER	X
10	WEL	1908	1369	0	273714081503401	ST OF FLA PAYNES CR	273711.755	814830.001	130	119	UNKNOWN	X

Table 10. Sarasota County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	1085	12949	0	271948082160801	AYECH - ROMP 24 INT	271948.134	821609.585	171	74	INTERMEDIATE AQUIFER			X
2	WEL	614	348	0	271134082092201	BIG SLOUGH DEEP	271135.791	820920.193	100	78	INTERMEDIATE AQUIFER			X
3	WEL	539	273	0	272133082324701	CITY OF SARA 27TH ST	272134.158	823246.580	343	45	INTERMEDIATE AQUIFER	X		
4	WEL	463	197	0	272120082322701	CITY OF SARASOTA 21ST RR	272123.679	823230.923	550	280	TAMPA/SUWANNEE	X		
5	WEL	729	463	0	265834082202401	ENGLEWOOD # 14	265835.153	822023.836	55	44	INTERMEDIATE AQUIFER			X
6	WEL	989	1360	0	270113082223301	ENGLEWOOD #5 HAWTHORNE	270114.778	822231.991	152	134	INTERMEDIATE AQUIFER	X		
7	WEL	989	723	0	270113082223302	ENGLEWOOD PROD #5	270114.751	822231.967	66	40	INTERMEDIATE AQUIFER	X		
8	WEL	889	623	0	271619082240201	FLORIDA CITIES TEST	271615.788	822403.417	446	104	TAMPA/SUWANNEE	X		
9	WEL	295	29	0	272301082191401	KME 02 WELL	272300.768	821914.382	860	356	TAMPA/SUWANNEE			X
10	WEL	1766	1361	0	270945082234401	KNIGHTS TRAIL FLORIDAN	270935.220	822411.130	1125	1080	OCALA/AVON PARK			X
11	WEL	1766	1305	0	270945082234402	KNIGHTS TRAIL UP INT	270934.131	822412.629	140	63	INTERMEDIATE AQUIFER	X		
12	WEL	390	124	0	271227082084801	MABRY CARLTON # 6	271228.251	820848.427	369	311	INTERMEDIATE AQUIFER			X
13	WEL	1730	1269	0	271242082171701	MACARTHUR TRACT 10H	271242.615	821717.795	312	272	TAMPA/SUWANNEE	X		
14	WEL	1723	1262	0	270807082152701	MACARTHUR TRACT 14FS	270807.614	821525.596	550	500	TAMPA/SUWANNEE			X
15	WEL	670	404	0	270137082235301	MANASOTA DEEP # 14	270138.906	822352.632	305	263	INTERMEDIATE AQUIFER			X
16	WEL	1699	1238	0	270928082172401	OM-41 SARASOTA COUNTY	270928.675	821725.528	750	700	TAMPA/SUWANNEE			X
17	WEL	1724	1263	0	271522082165801	PALMER WELL	271522.699	821656.491	360	72	UNKNOWN			X
18	WEL	1729	1268	0	270406082220103	PLANTATION HAWTHORNE	270405.888	822154.955	180	66	INTERMEDIATE AQUIFER	X		
19	WEL	1726	1265	0	270406082220102	PLANTATION SUWANNEE	270407.386	822155.829	755	630	TAMPA/SUWANNEE	X		
20	WEL	716	450	0	271135082074801	ROMP 18 SUWANNEE	271135.276	820748.413	845	505	TAMPA/SUWANNEE			X
21	WEL	13	10937	1	271021082151601	ROMP 19 ELAM	271022.055	821515.923	425	410	TAMPA/SUWANNEE			X
22	WEL	13	10937	0	271021082151602	ROMP 19 EUAM	271022.004	821515.985	121	80	INTERMEDIATE AQUIFER			X
23	WEL	14	10938	1	270959082203001	ROMP 19 WLAM	271001.496	822029.291	420	410	TAMPA/SUWANNEE	X		
24	WEL	14	10938	0	270959082203002	ROMP 19 WUAM	271001.548	822028.304	205	87	INTERMEDIATE AQUIFER	X		
25	WEL	1031	11303	0	271138082284603	ROMP 20 LOWER INT	271138.483	822845.341	370	250	INTERMEDIATE AQUIFER			X
26	WEL	1031	11302	0	271138082284605	ROMP 20 OCALA	271138.616	822844.975	1165	1105	OCALA/AVON PARK			X
27	WEL	1031	11306	0	271138082284604	ROMP 20 SWNN	271138.310	822845.499	840	500	TAMPA/SUWANNEE	X	X	
28	WEL	1031	11304	0	271138082284602	ROMP 20 UPPER INT	271138.586	822845.192	125	75	INTERMEDIATE AQUIFER	X	X	
29	WEL	1029	11177	0	271843082201704	ROMP 22 AVON PARK	271843.495	822011.818	1320	1220	OCALA/AVON PARK			X
30	WEL	1029	11175	0	271843082201702	ROMP 22 L INTERMEDIATE	271843.750	822011.407	290	230	INTERMEDIATE AQUIFER			X
31	WEL	1029	11176	0	271843082201703	ROMP 22 SWNN	271843.417	822011.482	635	400	TAMPA/SUWANNEE			X
32	WEL	1029	11174	0	271813082201201	ROMP 22 UPPER INT	271843.817	822011.785	125	95	INTERMEDIATE AQUIFER	X	X	
33	WEL	1070	12963	0	270432082085705	ROMP 9 AVON PARK	270434.768	820856.381	1230	1180	OCALA/AVON PARK			X
34	WEL	1070	12899	0	270432082085702	ROMP 9 INTERMEDIATE	270434.901	820856.060	165	120	INTERMEDIATE AQUIFER	X	X	
35	WEL	1070	12900	0	270432082085704	ROMP 9 LOWER INT	270434.828	820856.225	320	190	INTERMEDIATE AQUIFER			X
36	WEL	1070	12902	0	270432082085701	ROMP 9 SWNN	270434.836	820856.447	860	545	TAMPA/SUWANNEE			X
37	WEL	1087	12904	0	270327082262904	ROMP TR 4-1 LOW INT	270328.65	822628.301	645	272	INTERMEDIATE AQUIFER	X	X	
38	WEL	1087	12953	0	270327082262903	ROMP TR 4-1 MID INT	270328.77	822628.401	224	121	INTERMEDIATE AQUIFER			X
39	WEL	1087	17285	0	270327082262905	ROMP TR 4-1 SUWANNEE	270328.369	822628.145	821	765	TAMPA/SUWANNEE	X	X	
40	WEL	1087	12954	0	270327082262902	ROMP TR 4-1 UP INT	270329.054	822628.638	112	30	INTERMEDIATE AQUIFER	X	X	
41	WEL	228	10944	0	270240082235701	ROMP TR 4-2 SUWANNEE	270240.956	822357.978	475	460	TAMPA/SUWANNEE			X
42	WEL	224	10941	0	270808082270503	ROMP TR 5-1 INTERMED	270810.244	822704.871	289	275	INTERMEDIATE AQUIFER			X
43	WEL	224	10940	0	270808082270502	ROMP TR 5-1 SUWANNEE	270810.312	822704.763	510	492	TAMPA/SUWANNEE			X
44	WEL	1	3	0	270919082234203	ROMP TR 5-2 L HAW	270920.795	822341.662	265	245	INTERMEDIATE AQUIFER			X
45	WEL	1	1	0	270919082234206	ROMP TR 5-2 OCALA	270920.869	822341.648	890	850	OCALA/AVON PARK	X	X	

Table 10. Sarasota County Well Specifications (continued)

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
46	WEL	1	269	0	270919082234305	ROMP TR 5-2 SUWANNEE	270920.720	822341.644	630	510	TAMPA/SUWANNEE			X
47	WEL	912	646	0	271601082330501	ROMP TR 6-1 HAWTHORN	271601.349	823302.211	315	300	INTERMEDIATE AQUIFER			X
48	WEL	1039	12063	0	272049082324504	ROMP TR SA-1 AVON PARK	272049.238	823245.124	1015	995	OCALA/AVON PARK			X
49	WEL	1039	12002	0	272049082324502	ROMP TR SA-1 INTERMEDIATE	272049.299	823245.078	388	328	INTERMEDIATE AQUIFER			X
50	WEL	1039	12004	0	272049082324503	ROMP TR SA-1 SUWANNEE	272049.191	823245.006	738	708	TAMPA/SUWANNEE			X
51	WEL	2074	13236	0	272056082303701	ROMP TR SA-3 UP FLORIDAN	272056.391	823037.259	1218	1096	OCALA/AVON PARK	X	X	
52	WEL	827	561	0	271938082251801	SARASOTA #9 DEEP	271939.002	822518.143	730	101	TAMPA/SUWANNEE			X
53	WEL	608	342	0	272316082302601	SARASOTA CO TEST WELL #1	272316.938	823025.564	583	350	TAMPA/SUWANNEE	X		
54	WEL	1702	1241	0	271222082295201	SARASOTA HISTORICAL SOC	271222	822952	450	220	INTERMEDIATE AQUIFER	X		
55	WEL	1704	1243	0	271035082285901	SOUTHBAY UTILITIES DEEP	271037.345	822857.944	450	220	INTERMEDIATE AQUIFER	X		
56	WEL	1712	1251	0	270714082155201	TEST 18 BLACKBURN WELL	270719.710	821550.281	351	282	INTERMEDIATE AQUIFER	X		
57	WEL	1731	1270	0	271853082250801	THOMAS DARNELL	271852.108	822507.884	166	83	INTERMEDIATE AQUIFER			X
58	WEL	676	410	0	270542082261801	VENICE # 35	270540.883	822614.043	163	86	INTERMEDIATE AQUIFER	X		
59	WEL	1701	1240	0	270705082250101	VENICE 2E	270736.302	822501.249	580	514	TAMPA/SUWANNEE	X	X	
60	WEL	1719	1258	0	270558082245501	VENICE SH WF 59	270558.414	822449.394	190	82	INTERMEDIATE AQUIFER	X		
61	WEL	1715	1254	0	270558082241501	VENICE SH WF 68	270558.277	822409.573	110	75	INTERMEDIATE AQUIFER	X		
62	WEL	722	456	0	272020082194801	VERNA T WELL O-4	272020.302	821948.429	500	140	UNKNOWN			X
63	WEL	1706	1245	0	270853082090101	VO #3	270853	820901	350	32	UNKNOWN			X
64	WEL	997	731	0	272119082325101	WHITAKER BAYOU WELL	272118.512	823250.173	337	54	INTERMEDIATE AQUIFER	X		

Table 11. Desoto County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	344	78	0	271308081522601	ARCADIA WELL # 2	271310.094	815226.677	372	263	INTERMEDIATE AQUIFER			X
2	WEL	1352	891	0	271623081520101	CAMP CHANYATAH INT	271624.855	815159.725	192	43	INTERMEDIATE AQUIFER			X
3	WEL	1329	868	0	270440081434401	CROMWELL WELL #1	270440.424	814345.780	1480	540	OCALA/AVON PARK	X	X	
4	WEL	1148	11672	0	270223081421101	DT BROWN G-36	270223	814211	925	632	TAMPA/SUWANNEE			X
5	WEL	1332	871	0	270313081391001	EMERALD ISLAND FARMS (DID #5)	270330.571	813925.184	1300	610	OCALA/AVON PARK	X	X	
6	WEL	2536	16280	0	270542081560301	EUGENE TURNER WELL	270542.674	815603.611	1320	650	OCALA/AVON PARK	X	X	
7	WEL	1323	862	0	270540082001101	GDU WELL M-2	270541.954	820011.729	897	605	TAMPA/SUWANNEE			X
8	WEL	1153	11671	0	270540082001102	GDU WELL T-2	270542.185	820011.840	496	393	INTERMEDIATE AQUIFER	X		
9	WEL	1344	883	0	270810081481201	GP WOOD PROD WELL #5	270812.626	814811.014	565	70	TAMPA/SUWANNEE			X
10	WEL	1351	890	0	270540081335101	NAFCO GROVES INT	270539.742	813348.948	300	100	UNKNOWN			X
11	WEL	1165	11611	0	270240081465002	PRAIRIE CR UP INT-AG	270244.840	814649.018	80	60	INTERMEDIATE AQUIFER	X		
12	WEL	1338	877	0	270417081575601	ROB LANE (G.V. RUSSELL)	270429.488	815752.125	411	70	INTERMEDIATE AQUIFER	X		
13	WEL	2075	13331	0	270228081443205	ROMP 12 DP UP FLORIDAN	270228.018	814432.718	1373	1100	OCALA/AVON PARK	X	X	
14	WEL	2075	13336	0	270228081443202	ROMP 12 LO INTERMEDIATE	270228.112	814432.454	409	280	INTERMEDIATE AQUIFER			X
15	WEL	2075	13335	0	270228081443106	ROMP 12 LOWER SURFICIAL	270228.28	814431.75	27	12	SURFICIAL AQUIFER	X	X	
16	WEL	2075	13332	0	270228081443204	ROMP 12 MID UP FLORIDAN	270228.042	814432.227	905	720	TAMPA/SUWANNEE			X
17	WEL	2075	13333	0	270228081443203	ROMP 12 SH UP FLORIDAN	270227.982	814432.580	710	505	TAMPA/SUWANNEE	X	X	
18	WEL	2075	13337	0	270228081443201	ROMP 12 UP INTERMEDIATE	270228.055	814432.071	110	54	INTERMEDIATE AQUIFER	X	X	
19	WEL	1037	12916	0	270417081370205	ROMP 13 AVON PARK	270418.869	813658.549	1600	1550	OCALA/AVON PARK			X
20	WEL	1037	12870	0	270417081370203	ROMP 13 LOW INT	270419.111	813658.415	592	514	INTERMEDIATE AQUIFER	X	X	
21	WEL	1037	12871	0	270417081370202	ROMP 13 MID INT	270419.143	813658.26	417	282	INTERMEDIATE AQUIFER			X
22	WEL	1037	11508	0	270417081370201	ROMP 13 SURFICIAL	270418.868	813658.749	24	8	SURFICIAL AQUIFER	X	X	
23	WEL	1037	12872	0	270417081370204	ROMP 13 SWNN	270419.226	813658.143	797	671	TAMPA/SUWANNEE			X
24	WEL	219	10933	1	271232081392201	ROMP 15 DEEP	271232.829	813921.723	1360	654	TAMPA/SUWANNEE			X
25	WEL	221	414	0	271115081462702	ROMP 16 HAWTHORNE	271117.019	814624.788	340	300	INTERMEDIATE AQUIFER			X
26	WEL	2336	34900	0	270340081530204	ROMP 16.5 AVON PARK	270340.560	815302.361	1539	715	OCALA/AVON PARK	X	X	
27	WEL	2336	34898	0	270340081530202	ROMP 16.5 LOWER INTERMEDIATE	270339.906	815302.391	460	347	INTERMEDIATE AQUIFER	X	X	
28	WEL	2336	35458	0	270340081530207	ROMP 16.5 SURFICIAL	270340.388	815302.382	34	4	SURFICIAL AQUIFER	X	X	
29	WEL	2336	34899	0	270340081530203	ROMP 16.5 SUWANNEE	270340.258	815302.378	826	600	TAMPA/SUWANNEE	X	X	
30	WEL	2336	34901	0	270340081530201	ROMP 16.5 UPPER INTERMEDIATE	270340.016	815302.389	90	56	INTERMEDIATE AQUIFER	X	X	
31	WEL	1027	11046	0	271026081583601	ROMP 17 AP	271028.324	815835.497	1430	1115	OCALA/AVON PARK			X
32	WEL	1027	11043	0	271026081583604	ROMP 17 INT	271028.486	815835.462	240	200	INTERMEDIATE AQUIFER			X
33	WEL	1027	17250	0	271026081583606	ROMP 17 PZ2	271026.000	815836.000	160	100	INTERMEDIATE AQUIFER	X	X	
34	WEL	1027	11041	0	271026081583602	ROMP 17 SWNN	271028.201	815835.413	670	620	TAMPA/SUWANNEE			X
35	WEL	520	255	0	271757081493002	ROMP 26 AVON PARK	271758.647	814928.756	1320	580	OCALA/AVON PARK			X
36	WEL	520	258	0	271757081493003	ROMP 26 HAWTHORN	271758.855	814928.742	180	140	INTERMEDIATE AQUIFER			X
37	WEL	2257	17516	0	271705082022101	ROMP 35 CH-1 FLORIDAN	271705.28	820221.75	970	545	OCALA/AVON PARK			X
38	WEL	2091	17423	0	270737082025204	ROMP 9.5 LOW INT	270736.402	820249.916	330	205	INTERMEDIATE AQUIFER	X	X	
39	WEL	2091	17422	0	270737082025201	ROMP 9.5 UP FL	270736.562	820249.875	800	500	TAMPA/SUWANNEE	X	X	
40	WEL	2091	13380	0	270737082025001	ROMP 9.5 UPPER INT	270735.618	820248.084	77	61	INTERMEDIATE AQUIFER	X	X	
41	WEL	1327	866	0	270442081494301	ROPER GROVES WELL	270441.752	814940.938	1189	640	OCALA/AVON PARK			X
42	WEL	777	511	0	271743081374601	TROPICAL RIVER GROVE	271744.837	813745.327	698	137	TAMPA/SUWANNEE			X

Table 12. Highlands County Well Specifications

Map ID	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	1088	13239	0	270856081211404	ROMP 14 AVON PARK	270859.16	812114.25	1670	1020	OCALA/AVON PARK			X
2	WEL	1088	12873	0	270856081211402	ROMP 14 INTERMEDIATE	270859.650	812111.923	520	460	INTERMEDIATE AQUIFER			X
3	WEL	1088	12955	0	270856081211401	ROMP 14 SH FLORIDAN	270859.836	812111.902	730	650	TAMPA/SUWANNEE			X
4	WEL	1042	12711	1	272207081260406	ROMP 28 EVAPORITE	272207.727	812606.780	2112	2083	OCALA/AVON PARK	X		
5	WEL	1042	11875	0	272207081260402	ROMP 28 INTERMEDIATE	272208.568	812607.382	420	370	INTERMEDIATE AQUIFER			X
6	WEL	1042	12711	0	272207081260405	ROMP 28 L AVON PARK	272207.727	812606.780	1933	1915	OCALA/AVON PARK	X		
7	WEL	1042	11876	0	272207081260404	ROMP 28 SUWANNEE	272208.734	812607.445	600	485	TAMPA/SUWANNEE			X
8	WEL	1042	12101	0	272207081260407	ROMP 28 UP AVON PARK	272207.909	812606.853	1650	973	OCALA/AVON PARK			X
9	WEL	203	10916	0	273615081284901	ROMP 43XX FLORIDAN	273616.094	812848.373	1363	409	OCALA/AVON PARK			X

Table 13. Charlotte County Well Specifications

Map No.	UID				Station ID	Station	Latitude	Longitude	Well Depth		Aquifer/Formation Group	CGWQMN		WUPNET
	Type	Station	Site	Seq					TD	CD		*Full*	*Sub*	
1	WEL	1868	1320	0	265321081442601	BABCOCK 2126	265316.59	814426.67	404	42	UNKNOWN	X	X	
2	WEL	1872	1324	0	270201082460201	DT BROWN #6	270202.151	814559.949	450	?	UNKNOWN			X
3	WEL	778	512	0	265920082045601	PORT CHAR UTIL DEEP	265920.499	820455.319	156	128	INTERMEDIATE AQUIFER			X
4	WEL	932	666	0	270133082034601	PORT CHARLOTTE DEEP	270145.994	820413.326	350	312	INTERMEDIATE AQUIFER			X
5	WEL	971	705	0	265138082002201	PUNTA GORDA HEIGHTS	265140.008	820022.737	125	84	INTERMEDIATE AQUIFER	X		
6	WEL	536	288	0	270152082002807	ROMP 10 HAWTHORN	270152.874	820000.658	202	130	INTERMEDIATE AQUIFER	X		
7	WEL	536	285	0	270152082002806	ROMP 10 LIMESTONE	270153.308	820000.755	473	320	INTERMEDIATE AQUIFER			X
8	WEL	586	320	0	265837081561101	ROMP 11 DEEP	265837.667	815609.299	335	220	INTERMEDIATE AQUIFER			X
9	WEL	1069	12885	0	265644081482905	ROMP 5 AVON PARK	265644.869	814828.613	1400	1350	OCALA/AVON PARK			X
10	WEL	1069	12883	0	265644081482903	ROMP 5 LOWER INT	265644.962	814827.868	600	450	INTERMEDIATE AQUIFER			X
11	WEL	1069	12623	0	265644081482901	ROMP 5 SURF	265644.929	814827.727	85	5	SURFICIAL AQUIFER	X	X	
12	WEL	1069	12884	0	265644081482904	ROMP 5 SWNN	265644.962	814827.47	970	720	TAMPA/SUWANNEE			X
13	WEL	1069	12882	0	265644081482902	ROMP 5 UPPER INT	265644.947	814828.098	233	133	INTERMEDIATE AQUIFER	X	X	
14	WEL	229	10947	0	265026081585403	ROMP TR 1-2 L HAW	265025.547	815853.155	600	520	INTERMEDIATE AQUIFER			X
15	WEL	229	11334	0	265026081585404	ROMP TR 1-2 SWNN	265025.409	815853.235	1184	980	TAMPA/SUWANNEE			X
16	WEL	229	11333	0	265026081585402	ROMP TR 1-2 UP INT	265025.348	815853.369	255	218	INTERMEDIATE AQUIFER	X		
17	WEL	2	2	1	265638082130705	ROMP TR 3-1 L HAWTHO	265639.301	821304.956	400	380	INTERMEDIATE AQUIFER			X
18	WEL	2	2	2	265638082130706	ROMP TR 3-1 SUWANNEE	265639.295	821304.795	620	600	TAMPA/SUWANNEE			X
19	WEL	2	10945	1	265638082130703	ROMP TR 3-1 U HAWTHO	265639.407	821304.841	160	140	INTERMEDIATE AQUIFER	X		
20	WEL	1023	11071	0	265531082194804	ROMP TR 3-3 L INT	265532.197	821945.934	410	370	INTERMEDIATE AQUIFER			X
21	WEL	1023	11073	0	265531082194803	ROMP TR 3-3 SUWANNEE	265532.236	821946.086	900	680	TAMPA/SUWANNEE			X
22	WEL	1023	11071	1	265531082194805	ROMP TR 3-3 U HAWTH	265532.118	821945.898	175	155	INTERMEDIATE AQUIFER	X		
23	WEL	1235	774	0	265158082171701	ROTUNDA WATER PLANT 18	265205.127	821723.173	146	121	INTERMEDIATE AQUIFER	X		
24	WEL	2333	17744	0	265821081534301	SHELL CREEK RV PARK INT	265821.36	815343.38	195	135	INTERMEDIATE AQUIFER	X		
25	WEL	832	566	0	265646081554501	SR 74 DEEP WELL	265647.895	815546.713	280	194	INTERMEDIATE AQUIFER	X		
26	WEL	1867	1319	0	265127081532501	USGS C-1	265129.021	815308.745	264	214	INTERMEDIATE AQUIFER			X
27	WEL	1236	775	0	265504082000601	USGS C-3	265506.017	820006.218	205	153	INTERMEDIATE AQUIFER			X
28	WEL	1866	1318	0	265124081453701	USGS TUCKERS CORNER	265127.240	814535.783	235	212	INTERMEDIATE AQUIFER			X

Table 14. Water Types in the Intermediate Aquifer System

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
271308081522601	ARCADIA WELL # 2	DESOTO	271310.094	815226.677	Ca/MgHCO3	INTERMEDIATE AQUIFER
271948082160801	AYECH - ROMP 24 INT	SARASOTA	271948.134	821609.585	Ca/MgHCO3	INTERMEDIATE AQUIFER
271134082092201	BIG SLOUGH DEEP	SARASOTA	271135.791	820920.193	Ca/MgHCO3	INTERMEDIATE AQUIFER
271623081520101	CAMP CHANYATAH INT	DESOTO	271624.855	815159.725	CaSO4	INTERMEDIATE AQUIFER
272133082324701	CITY OF SARA 27TH ST	SARASOTA	272134.158	823246.580	CaSO4	INTERMEDIATE AQUIFER
265834082202401	ENGLEWOOD # 14	SARASOTA	265835.153	822023.836	Ca/MgHCO3	INTERMEDIATE AQUIFER
270113082223301	ENGLEWOOD #5 HAWTHORNE	SARASOTA	270114.778	822231.991	NaCl	INTERMEDIATE AQUIFER
270113082223302	ENGLEWOOD PROD #5	SARASOTA	270114.751	822231.967	Ca/MgHCO3	INTERMEDIATE AQUIFER
270113082223302	ENGLEWOOD PROD #5	SARASOTA	270114.751	822231.967	Ca/MgHCO3	INTERMEDIATE AQUIFER
273253082072801	ESTECH HAWTHORNE 44	MANATEE	273252.065	820728.026	Ca/MgHCO3	INTERMEDIATE AQUIFER
273253082072801	ESTECH HAWTHORNE 44	MANATEE	273252.065	820728.026	Ca/MgHCO3	INTERMEDIATE AQUIFER
274155081573201	FT GREEN SPRINGS RD WELL	POLK	274154.678	815729.383	Ca/MgHCO3	INTERMEDIATE AQUIFER
270540082001102	GDU WELL T-2	DESOTO	270542.185	820011.840	CaSO4	INTERMEDIATE AQUIFER
270945082234402	KNIGHTS TRAIL UP INT	SARASOTA	270934.131	822412.629	CaSO4	INTERMEDIATE AQUIFER
270945082234402	KNIGHTS TRAIL UP INT	SARASOTA	270934.131	822412.629	CaSO4	INTERMEDIATE AQUIFER
271227082084801	MABRY CARLTON # 6	SARASOTA	271228.251	820848.427	CaSO4	INTERMEDIATE AQUIFER
270137082235301	MANASOTA DEEP # 14	SARASOTA	270138.906	822352.632	Ca/MgHCO3	INTERMEDIATE AQUIFER
272405082072501	PATRICIA GALLAGHER	MANATEE	272405	820725	Ca/MgHCO3	INTERMEDIATE AQUIFER
270406082220103	PLANTATION HAWTHORNE	SARASOTA	270405.888	822154.955	Ca/MgHCO3	INTERMEDIATE AQUIFER
265920082045601	PORT CHAR UTIL DEEP	CHARLOTTE	265920.499	820455.319	NaCl	INTERMEDIATE AQUIFER
270133082034601	PORT CHARLOTTE DEEP	CHARLOTTE	270145.994	820413.326	NaCl	INTERMEDIATE AQUIFER
270240081465002	PRAIRIE CR UP INT-AG	DESOTO	270244.840	814649.018	Ca/MgHCO3	INTERMEDIATE AQUIFER
265138082002201	PUNTA GORDA HEIGHTS	CHARLOTTE	265140.008	820022.737	NaCl	INTERMEDIATE AQUIFER
270417081575601	ROB LANE (G.V. RUSSELL)	DESOTO	270429.488	815752.125	NaCl	INTERMEDIATE AQUIFER
270152082002807	ROMP 10 HAWTHORN	CHARLOTTE	270152.874	820000.658	NaCl	INTERMEDIATE AQUIFER
270152082002806	ROMP 10 LIMESTONE	CHARLOTTE	270153.308	820000.755	NaCl	INTERMEDIATE AQUIFER
265837081561101	ROMP 11 DEEP	CHARLOTTE	265837.667	815609.299	NaCl	INTERMEDIATE AQUIFER
270228081443202	ROMP 12 LO INTERMEDIATE	DESOTO	270228.112	814432.454	Ca/MgHCO3	INTERMEDIATE AQUIFER
270228081443201	ROMP 12 UP INTERMEDIATE	DESOTO	270228.055	814432.071	Ca/MgHCO3	INTERMEDIATE AQUIFER
270417081370203	ROMP 13 LOW INT	DESOTO	270419.111	813658.415	Ca/MgHCO3	INTERMEDIATE AQUIFER
270417081370202	ROMP 13 MID INT	DESOTO	270419.143	813658.26	Ca/MgHCO3	INTERMEDIATE AQUIFER
270856081211402	ROMP 14 INTERMEDIATE	HIGHLANDS	270859.650	812111.923	Ca/MgHCO3	INTERMEDIATE AQUIFER
271115081462702	ROMP 16 HAWTHORNE	DESOTO	271117.019	814624.788	Ca/MgHCO3	INTERMEDIATE AQUIFER
270340081530202	ROMP 16.5 LOWER INTERMEDI	DESOTO	270339.906	815302.391	NaCl	INTERMEDIATE AQUIFER
270340081530201	ROMP 16.5 UPPER INTERMEDI	DESOTO	270340.016	815302.389	Ca/MgHCO3	INTERMEDIATE AQUIFER
271026081583604	ROMP 17 INT	DESOTO	271028.486	815835.462	Ca/MgHCO3	INTERMEDIATE AQUIFER

Table 14. Water Types in the Intermediate Aquifer System (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
271026081583606	ROMP 17 PZ2	DESOTO	271026.000	815836.000	Ca/MgHCO3	INTERMEDIATE AQUIFER
271026081583606	ROMP 17 PZ2	DESOTO	271026.000	815836.000	Ca/MgHCO3	INTERMEDIATE AQUIFER
271021082151602	ROMP 19 EUAM	SARASOTA	271022.004	821515.985	CaSO4	INTERMEDIATE AQUIFER
270959082203002	ROMP 19 WUAM	SARASOTA	271001.548	822028.304	Ca/MgHCO3	INTERMEDIATE AQUIFER
271138082284603	ROMP 20 LOWER INT	SARASOTA	271138.483	822845.341	CaSO4	INTERMEDIATE AQUIFER
271138082284602	ROMP 20 UPPER INT	SARASOTA	271138.586	822845.192	CaSO4	INTERMEDIATE AQUIFER
271843082201702	ROMP 22 L INTERMEDIATE	SARASOTA	271843.750	822011.407	Ca/MgHCO3	INTERMEDIATE AQUIFER
271813082201201	ROMP 22 UPPER INT	SARASOTA	271843.817	822011.785	Ca/MgHCO3	INTERMEDIATE AQUIFER
271906082112405	ROMP 23 PZ2	MANATEE	271853.394	821039.212	Ca/MgHCO3	INTERMEDIATE AQUIFER
272159082002502	ROMP 25 LILY ARCADIA	HARDEE	272159.108	820025.388	Ca/MgHCO3	INTERMEDIATE AQUIFER
271757081493003	ROMP 26 HAWTHORN	DESOTO	271758.855	814928.742	Ca/MgHCO3	INTERMEDIATE AQUIFER
272207081260402	ROMP 28 INTERMEDIATE	HIGHLANDS	272208.568	812607.382	Ca/MgHCO3	INTERMEDIATE AQUIFER
272714081545902	ROMP 31 HAWTHORN	HARDEE	272715.001	815458.573	Ca/MgHCO3	INTERMEDIATE AQUIFER
272728082152903	ROMP 33 INT	MANATEE	272728.224	821525.546	Ca/MgHCO3	INTERMEDIATE AQUIFER
273521082150503	ROMP 39 INTERMEDIATE	MANATEE	273519.345	821505.347	Ca/MgHCO3	INTERMEDIATE AQUIFER
273851082031502	ROMP 40 HAWTHORNE	POLK	273852.393	820314.732	Ca/MgHCO3	INTERMEDIATE AQUIFER
274547081470901	ROMP 45 HAWTHORNE	POLK	274551.275	814709.838	Ca/MgHCO3	INTERMEDIATE AQUIFER
265644081482903	ROMP 5 LOWER INT	CHARLOTTE	265644.962	814827.868	NaCl	INTERMEDIATE AQUIFER
265644081482902	ROMP 5 UPPER INT	CHARLOTTE	265644.947	814828.098	NaCl	INTERMEDIATE AQUIFER
275411081372002	ROMP 57-2 HAWTHORNE	POLK	275413.036	813721.097	Ca/MgHCO3	INTERMEDIATE AQUIFER
275314081514203	ROMP 59 U HAWTHORN	POLK	275302.287	815151.128	Ca/MgHCO3	INTERMEDIATE AQUIFER
270432082085702	ROMP 9 INTERMEDIATE	SARASOTA	270434.901	820856.060	NaCl	INTERMEDIATE AQUIFER
270432082085704	ROMP 9 LOWER INT	SARASOTA	270434.828	820856.225	NaCl	INTERMEDIATE AQUIFER
270737082025204	ROMP 9.5 LOW INT	DESOTO	270736.402	820249.916	Ca/MgHCO3	INTERMEDIATE AQUIFER
270737082025001	ROMP 9.5 UPPER INT	DESOTO	270735.618	820248.084	Ca/MgHCO3	INTERMEDIATE AQUIFER
265026081585403	ROMP TR 1-2 L HAW	CHARLOTTE	265025.547	815853.155	NaCl	INTERMEDIATE AQUIFER
265026081585402	ROMP TR 1-2 UP INT	CHARLOTTE	265025.348	815853.369	NaCl	INTERMEDIATE AQUIFER
265638082130705	ROMP TR 3-1 L HAWTHO	CHARLOTTE	265639.301	821304.956	NaCl	INTERMEDIATE AQUIFER
265638082130703	ROMP TR 3-1 U HAWTHO	CHARLOTTE	265639.407	821304.841	NaCl	INTERMEDIATE AQUIFER
265531082194804	ROMP TR 3-3 L INT	CHARLOTTE	265532.197	821945.934	NaCl	INTERMEDIATE AQUIFER
265531082194805	ROMP TR 3-3 U HAWTH	CHARLOTTE	265532.118	821945.898	NaCl	INTERMEDIATE AQUIFER
270327082262904	ROMP TR 4-1 LOW INT	SARASOTA	270328.65	822628.301	CaSO4	INTERMEDIATE AQUIFER
270327082262903	ROMP TR 4-1 MID INT	SARASOTA	270328.77	822628.401	Ca/MgHCO3	INTERMEDIATE AQUIFER
270327082262902	ROMP TR 4-1 UP INT	SARASOTA	270329.054	822628.638	NaCl	INTERMEDIATE AQUIFER
270808082270503	ROMP TR 5-1 INTERMED	SARASOTA	270810.244	822704.871	CaSO4	INTERMEDIATE AQUIFER
270919082234203	ROMP TR 5-2 L HAW	SARASOTA	270920.795	822341.662	CaSO4	INTERMEDIATE AQUIFER

Table 14. Water Types in the Intermediate Aquifer System (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
271601082330501	ROMP TR 6-1 HAWTHORN	SARASOTA	271601.349	823302.211	CaSO4	INTERMEDIATE AQUIFER
272612082330103	ROMP TR 7-2 LOWER INT	MANATEE	272614.036	823300.903	CaSO4	INTERMEDIATE AQUIFER
272612082330104	ROMP TR 7-2 UP HAWTHORN	MANATEE	272614.036	823300.903	Ca/MgHCO3	INTERMEDIATE AQUIFER
272539082292004	ROMP TR 7-4 HAWTH	MANATEE	272540.132	822920.680	Ca/MgHCO3	INTERMEDIATE AQUIFER
273458082324707	ROMP TR 8-1 INT	MANATEE	273459.661	823245.972	Ca/MgHCO3	INTERMEDIATE AQUIFER
272049082324502	ROMP TR SA-1 INTERMEDIATE	SARASOTA	272049.299	823245.078	CaSO4	INTERMEDIATE AQUIFER
265158082171701	ROTUNDA WATER PLANT 18	CHARLOTTE	265205.127	821723.173	NaCl	INTERMEDIATE AQUIFER
273156081451401	ROWELL DEEP	HARDEE	273156.220	814516.812	Ca/MgHCO3	INTERMEDIATE AQUIFER
271222082295201	SARASOTA HISTORICAL SOC	SARASOTA	271222	822952	CaSO4	INTERMEDIATE AQUIFER
265821081534301	SHELL CREEK RV PARK INT	CHARLOTTE	265821.36	815343.38	NaCl	INTERMEDIATE AQUIFER
265646081554501	SR 74 DEEP WELL	CHARLOTTE	265647.895	815546.713	NaCl	INTERMEDIATE AQUIFER
270714082155201	TEST 18 BLACKBURN WELL	SARASOTA	270719.710	821550.281	CaSO4	INTERMEDIATE AQUIFER
271853082250801	THOMAS DARNELL	SARASOTA	271852.108	822507.884	CaSO4	INTERMEDIATE AQUIFER
265127081532501	USGS C-1	CHARLOTTE	265129.021	815308.745	NaCl	INTERMEDIATE AQUIFER
265504082000601	USGS C-3	CHARLOTTE	265506.017	820006.218	NaCl	INTERMEDIATE AQUIFER
265124081453701	USGS TUCKERS CORNER	CHARLOTTE	265127.240	814535.783	Ca/MgHCO3	INTERMEDIATE AQUIFER
270542082261801	VENICE # 35	SARASOTA	270540.883	822614.043	CaSO4	INTERMEDIATE AQUIFER
270558082245501	VENICE SH WF 59	SARASOTA	270558.414	822449.394	Ca/MgHCO3	INTERMEDIATE AQUIFER
270558082241501	VENICE SH WF 68	SARASOTA	270558.277	822409.573	CaSO4	INTERMEDIATE AQUIFER
272119082325101	WHITAKER BAYOU WELL	SARASOTA	272118.512	823250.173	NaCl	INTERMEDIATE AQUIFER

Table 15. Water Types in the Tampa/Suwannee Zone of the Upper Floridan Aquifer

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
281238082425601	ANCLOTE ELEMENTARY	PASCO	281239.267	824254.680	Ca/MgHCO3	TAMPA/SUWANNEE
275138082450301	BARDMOOR DEEP WELL	PINELLAS	275140.763	824502.708	NaCl	TAMPA/SUWANNEE
284130082353501	BETTY JAY SPRING WELL	HERNANDO	284114.856	823536.843	Ca/MgHCO3	TAMPA/SUWANNEE
284130082353501	BETTY JAY SPRING WELL	HERNANDO	284114.856	823536.843	Ca/MgHCO3	TAMPA/SUWANNEE
273818081501001	CARGILL FA-1	HARDEE	273819.345	815012.806	CaSO4	TAMPA/SUWANNEE
282228082402001	CITY OF HUDSON	PASCO	282229.218	824020.947	NaCl	TAMPA/SUWANNEE
272120082322701	CITY OF SARASOTA 21ST RR	SARASOTA	272123.679	823230.923	CaSO4	TAMPA/SUWANNEE
274114082303701	CLAPROD WL NR RUSKIN	HILLSBOROUGH	274114.049	823034.534	CaSO4	TAMPA/SUWANNEE
280022082424901	CLEARWATER WELL 67	PINELLAS	280022.241	824248.708	Ca/MgHCO3	TAMPA/SUWANNEE
280055082210701	CNB #3	HILLSBOROUGH	280054.744	822106.938	NaCl	TAMPA/SUWANNEE
281642082440201	COASTAL PASCO #4	PASCO	281641.561	824401.794	NaCl	TAMPA/SUWANNEE
274440081314801	COLEY WELL	POLK	274439.766	813146.088	Ca/MgHCO3	TAMPA/SUWANNEE
283111082375801	CSPR-6 FL JENKINS CREEK	HERNANDO	283111.554	823758.003	NaCl	TAMPA/SUWANNEE
282457082391201	CSPR-7 ARIPEKA UP FL	PASCO	282457.363	823912.634	Ca/MgHCO3	TAMPA/SUWANNEE
270223081421101	DT BROWN G-36	DESOTO	270223	814211	NaCl	TAMPA/SUWANNEE
271832082064801	EDGEVILLE DEEP #3	MANATEE	271833.611	820647.960	CaSO4	TAMPA/SUWANNEE
273718082315501	FL POWER & LIGHT WEL	MANATEE	273718.027	823154.968	NaCl	TAMPA/SUWANNEE
271619082240201	FLORIDA CITIES TEST	SARASOTA	271615.788	822403.417	CaSO4	TAMPA/SUWANNEE
270540082001101	GDU WELL M-2	DESOTO	270541.954	820011.729	CaSO4	TAMPA/SUWANNEE
270810081481201	GP WOOD PROD WELL #5	DESOTO	270812.626	814811.014	CaSO4	TAMPA/SUWANNEE
282418082393702	GRACE MEMORIAL #2	PASCO	282425.728	823937.783	Ca/MgHCO3	TAMPA/SUWANNEE
281440082423301	GULF MIDDLE HIGH	PASCO	281442.066	824232.965	Ca/MgHCO3	TAMPA/SUWANNEE
280058082252001	HILLS CO ASR SMW-1	HILLSBOROUGH	280100.998	822521.038	NaCl	TAMPA/SUWANNEE
275443082224001	JAMES BYRD NR RIVERVIEW	HILLSBOROUGH	275443.613	822239.508	Ca/MgHCO3	TAMPA/SUWANNEE
272301082191401	KME 02 WELL	SARASOTA	272300.768	821914.382	CaSO4	TAMPA/SUWANNEE
274837082232901	KUSHMER WL AT ADAMSVILLE	HILLSBOROUGH	274838.974	822328.419	CaSO4	TAMPA/SUWANNEE
275955082335801	LIBRARY DP WL ON PAULA	HILLSBOROUGH	275956.917	823358.481	NaCl	TAMPA/SUWANNEE
273825082191701	LITTLE MANATEE RIVER WELL	HILLSBOROUGH	273825	821917	Ca/MgHCO3	TAMPA/SUWANNEE
271242082171701	MACARTHUR TRACT 10H	SARASOTA	271242.615	821717.795	CaSO4	TAMPA/SUWANNEE
270807082152701	MACARTHUR TRACT 14FS	SARASOTA	270807.614	821525.596	CaSO4	TAMPA/SUWANNEE
272807082401501	MANATEE FRUIT #3	MANATEE	272809.520	824013.331	NaCl	TAMPA/SUWANNEE
275458082310301	MARTIN MURPHEY	HILLSBOROUGH	275457.600	823103.083	Ca/MgHCO3	TAMPA/SUWANNEE
281223082442301	METHODIST CHURCH	PASCO	281220.649	824420.601	Ca/MgHCO3	TAMPA/SUWANNEE
274904082423601	MILLER WELL- KENNETH CITY	PINELLAS	274903.347	824236.548	NaCl	TAMPA/SUWANNEE

Table 15. Water Types in the Tampa/Suwannee Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
275600081331502	MOUNTAIN LAKE CORP N FL	POLK	275559.771	813314.533	Ca/MgHCO3	TAMPA/SUWANNEE
274848081302201	MURRAY ROAD FL	POLK	274850.575	813022.691	Ca/MgHCO3	TAMPA/SUWANNEE
272735082083401	MYAKKA HEAD #5 USGS	MANATEE	272735.649	820835.848	Ca/MgHCO3	TAMPA/SUWANNEE
273504082283801	N CO. TREAT. OLD SUP	MANATEE	273501.344	822840.774	CaSO4	TAMPA/SUWANNEE
273504082283801	N CO. TREAT. OLD SUP	MANATEE	273501.344	822840.774	CaSO4	TAMPA/SUWANNEE
274935082370207	NORTHEAST INJECTION B-11	PINELLAS	274936.622	823701.628	NaCl	TAMPA/SUWANNEE
280033082284901	NWHWRAP-2	HILLSBOROUGH	280033.983	822847.548	Ca/MgHCO3	TAMPA/SUWANNEE
281142082424001	NWHWRAP-3	PASCO	281142.512	824238.945	Ca/MgHCO3	TAMPA/SUWANNEE
275130082194501	OAKRIDGE #46 - RIVERCREST	HILLSBOROUGH	275130.038	821944.305	Ca/MgHCO3	TAMPA/SUWANNEE
270928082172401	OM-41 SARASOTA COUNTY	SARASOTA	270928.675	821725.528	CaSO4	TAMPA/SUWANNEE
272949082404001	PERICO ISLAND WELL	MANATEE	272950.124	824038.269	NaCl	TAMPA/SUWANNEE
270406082220102	PLANTATION SUWANNEE	SARASOTA	270407.386	822155.829	NaCl	TAMPA/SUWANNEE
281652082423301	PORT RICHEY CITY DP	PASCO	281651.102	824232.340	NaCl	TAMPA/SUWANNEE
283203082370201	PRESBYTERIAN YOUTH CAMP (	HERNANDO	283202.799	823701.075	NaCl	TAMPA/SUWANNEE
270228081443204	ROMP 12 MID UP FLORIDAN	DESOTO	270228.042	814432.227	NaCl	TAMPA/SUWANNEE
270228081443203	ROMP 12 SH UP FLORIDAN	DESOTO	270227.982	814432.580	NaCl	TAMPA/SUWANNEE
274031082150401	ROMP 123 DEEP	HILLSBOROUGH	274031.715	821504.672	Ca/MgHCO3	TAMPA/SUWANNEE
270417081370204	ROMP 13 SWNN	DESOTO	270419.226	813658.143	NaCl	TAMPA/SUWANNEE
270856081211401	ROMP 14 SH FLORIDAN	HIGHLANDS	270859.836	812111.902	Ca/MgHCO3	TAMPA/SUWANNEE
271232081392201	ROMP 15 DEEP	DESOTO	271232.829	813921.723	CaSO4	TAMPA/SUWANNEE
270340081530203	ROMP 16.5 SUWANNEE	DESOTO	270340.258	815302.378	CaSO4	TAMPA/SUWANNEE
271026081583602	ROMP 17 SWNN	DESOTO	271028.201	815835.413	CaSO4	TAMPA/SUWANNEE
271135082074801	ROMP 18 SUWANNEE	SARASOTA	271135.276	820748.413	CaSO4	TAMPA/SUWANNEE
271021082151601	ROMP 19 ELAM	SARASOTA	271022.055	821515.923	CaSO4	TAMPA/SUWANNEE
270959082203001	ROMP 19 WLAM	SARASOTA	271001.496	822029.291	CaSO4	TAMPA/SUWANNEE
271138082284604	ROMP 20 SWNN	SARASOTA	271138.310	822845.499	CaSO4	TAMPA/SUWANNEE
271843082201703	ROMP 22 SWNN	SARASOTA	271843.417	822011.482	CaSO4	TAMPA/SUWANNEE
272159082002503	ROMP 25 LILY SUWANNEE	HARDEE	272159.457	820025.422	CaSO4	TAMPA/SUWANNEE
272207081260404	ROMP 28 SUWANNEE	HIGHLANDS	272208.734	812607.445	Ca/MgHCO3	TAMPA/SUWANNEE
272728081474702	ROMP 30 TAMPA	HARDEE	272733.455	814747.974	CaSO4	TAMPA/SUWANNEE
272814082034802	ROMP 32 SUWANNEE	MANATEE	272815.033	820350.404	Ca/MgHCO3	TAMPA/SUWANNEE
272728082152902	ROMP 33 SWNN	MANATEE	272728.063	821525.420	Ca/MgHCO3	TAMPA/SUWANNEE
273521082150502	ROMP 39 SWNN	MANATEE	273519.352	821504.994	CaSO4	TAMPA/SUWANNEE
274547081470902	ROMP 45 SUWANNEE	POLK	274551.546	814710.039	Ca/MgHCO3	TAMPA/SUWANNEE

Table 15. Water Types in the Tampa/Suwannee Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
274427082083701	ROMP 48 FLORIDAN	HILLSBOROUGH	274427.108	820833.237	Ca/MgHCO3	TAMPA/SUWANNEE
274427082083701	ROMP 48 FLORIDAN	HILLSBOROUGH	274427.108	820833.237	Ca/MgHCO3	TAMPA/SUWANNEE
274546082151404	ROMP 49 SWN	HILLSBOROUGH	274546.262	821515.409	Ca/MgHCO3	TAMPA/SUWANNEE
265644081482904	ROMP 5 SWNN	CHARLOTTE	265644.962	814827.47	NaCl	TAMPA/SUWANNEE
274240082212701	ROMP 50 FLORIDAN	HILLSBOROUGH	274241.419	822125.568	CaSO4	TAMPA/SUWANNEE
275411081372001	ROMP 57-1 FLORIDAN	POLK	275412.898	813721.131	Ca/MgHCO3	TAMPA/SUWANNEE
275326081585801	ROMP 60 DEEP	POLK	275327.130	815856.580	Ca/MgHCO3	TAMPA/SUWANNEE
270432082085701	ROMP 9 SWNN	SARASOTA	270434.836	820856.447	NaCl	TAMPA/SUWANNEE
270737082025201	ROMP 9.5 UP FL	DESOTO	270736.562	820249.875	CaSO4	TAMPA/SUWANNEE
275402082222701	ROMP TR 10-2 DEEP	HILLSBOROUGH	275401.505	822223.006	NaCl	TAMPA/SUWANNEE
275705082222001	ROMP TR 11-2	HILLSBOROUGH	275706.205	822211.969	NaCl	TAMPA/SUWANNEE
265026081585404	ROMP TR 1-2 SWNN	CHARLOTTE	265025.409	815853.235	NaCl	TAMPA/SUWANNEE
275820082324602	ROMP TR 12-1 DP (NEW)	HILLSBOROUGH	275819.142	823250.128	NaCl	TAMPA/SUWANNEE
280005082324201	ROMP TR 12-3 (NEW)	HILLSBOROUGH	280006.155	823244.044	Ca/MgHCO3	TAMPA/SUWANNEE
275458082464002	ROMP TR 13-1 SUWANNEE	PINELLAS	275458.881	824639.197	NaCl	TAMPA/SUWANNEE
275430082431402	ROMP TR 13-2X SUWANNEE	PINELLAS	275432.167	824313.485	NaCl	TAMPA/SUWANNEE
281518082424301	ROMP TR 16-2	PASCO	281518.453	824240.332	NaCl	TAMPA/SUWANNEE
281518082424302	ROMP TR 16-2 SHALLOW TRIP	PASCO	281518.355	824240.402	NaCl	TAMPA/SUWANNEE
281917082420901	ROMP TR 17-1 DEEP	PASCO	281917.124	824206.715	NaCl	TAMPA/SUWANNEE
265638082130706	ROMP TR 3-1 SUWANNEE	CHARLOTTE	265639.295	821304.795	NaCl	TAMPA/SUWANNEE
265531082194803	ROMP TR 3-3 SUWANNEE	CHARLOTTE	265532.236	821946.086	NaCl	TAMPA/SUWANNEE
270327082262905	ROMP TR 4-1 SUWANNEE	SARASOTA	270328.369	822628.145	NaCl	TAMPA/SUWANNEE
270240082235701	ROMP TR 4-2 SUWANNEE	SARASOTA	270240.956	822357.978	CaSO4	TAMPA/SUWANNEE
270808082270502	ROMP TR 5-1 SUWANNEE	SARASOTA	270810.312	822704.763	CaSO4	TAMPA/SUWANNEE
270919082234305	ROMP TR 5-2 SUWANNEE	SARASOTA	270920.720	822341.644	CaSO4	TAMPA/SUWANNEE
272510082345701	ROMP TR 7-1	MANATEE	272510.760	823456.792	CaSO4	TAMPA/SUWANNEE
272612082330102	ROMP TR 7-2 SH FL	MANATEE	272614.015	823300.896	CaSO4	TAMPA/SUWANNEE
272539082292002	ROMP TR 7-4 SWNN	MANATEE	272540.317	822920.825	CaSO4	TAMPA/SUWANNEE
272539082292003	ROMP TR 7-4 TAMPA	MANATEE	272540.084	822920.706	CaSO4	TAMPA/SUWANNEE
273458082324705	ROMP TR 8-1 SWNN	MANATEE	273459.353	823246.079	CaSO4	TAMPA/SUWANNEE
274554082233803	ROMP TR 9-2 SWNN	HILLSBOROUGH	274555.098	822335.337	CaSO4	TAMPA/SUWANNEE
274554082233804	ROMP TR 9-2 TAMPA	HILLSBOROUGH	274555.239	822335.733	CaSO4	TAMPA/SUWANNEE
274428082251502	ROMP TR 9-3 SWNN	HILLSBOROUGH	274427.540	822522.213	CaSO4	TAMPA/SUWANNEE
272049082324503	ROMP TR SA-1 SUWANNEE	SARASOTA	272049.191	823245.006	NaCl	TAMPA/SUWANNEE

Table 15. Water Types in the Tampa/Suwannee Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
271938082251801	SARASOTA #9 DEEP	SARASOTA	271939.002	822518.143	CaSO4	TAMPA/SUWANNEE
272316082302601	SARASOTA CO TEST WELL #1	SARASOTA	272316.938	823025.564	CaSO4	TAMPA/SUWANNEE
273159082373101	SNEAD'S ISLAND	MANATEE	273159.519	823730.113	CaSO4	TAMPA/SUWANNEE
274912082441001	SOUTH CROSS BAYOU W S9	PINELLAS	274913.083	824410.529	Ca/MgHCO3	TAMPA/SUWANNEE
280115081352002	SWANN RD FL	POLK	280120.876	813513.525	NaCl	TAMPA/SUWANNEE
275724082221001	SWFWMD WELL AT S-160	HILLSBOROUGH	275526.260	822211.475	NaCl	TAMPA/SUWANNEE
281128082445501	TAHITIAN DEEP WELL	PASCO	281128.200	824454.600	Ca/MgHCO3	TAMPA/SUWANNEE
280246082383601	TAMPA BAY DOWNS WRAP-57F	HILLSBOROUGH	280248.009	823844.172	NaCl	TAMPA/SUWANNEE
275316082285901	TAMPA YACHT & STABLES	HILLSBOROUGH	275318.051	822857.984	Ca/MgHCO3	TAMPA/SUWANNEE
280055082222701	TBC - 09	HILLSBOROUGH	280055.122	822226.605	Ca/MgHCO3	TAMPA/SUWANNEE
280112082270101	TOURIST CLUB WL AT SUL SP	HILLSBOROUGH	280113.559	822702.477	NaCl	TAMPA/SUWANNEE
271743081374601	TROPICAL RIVER GROVE	DESOTO	271744.837	813745.327	CaSO4	TAMPA/SUWANNEE
275627082150801	TURNER WELL	HILLSBOROUGH	275626.938	821508.728	Ca/MgHCO3	TAMPA/SUWANNEE
270705082250101	VENICE 2E	SARASOTA	270736.302	822501.249	CaSO4	TAMPA/SUWANNEE
274928082225501	WELL 220 AT ADAMSVILLE	HILLSBOROUGH	274926.931	822253.197	CaSO4	TAMPA/SUWANNEE
282553082395301	WHITING WELL DEEP	PASCO	282551.992	823951.796	NaCl	TAMPA/SUWANNEE
282553082395302	WHITING WELL SHALLOW	PASCO	282553.003	823950.916	Ca/MgHCO3	TAMPA/SUWANNEE
281948082415301	WITHLACOOCHEE ELECTRIC CO	PASCO	281950.221	824149.745	Ca/MgHCO3	TAMPA/SUWANNEE
274454082260001	WOLF BRANCH #5	HILLSBOROUGH	274457.293	822558.810	CaSO4	TAMPA/SUWANNEE

Table 16. Water Types in the Ocala/Avon Park Zone of the Upper Floridan Aquifer

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
284939082344701	BAPTIST CHURCH PASTORIUM	CITRUS	285000.544	823440.224	Ca/MgHCO3	OCALA/AVON PARK
290112082371101	CE 5	LEVY	290112.977	823711.285	Ca/MgHCO3	OCALA/AVON PARK
290118082364101	CE 70	LEVY	290119.615	823642.567	Ca/MgHCO3	OCALA/AVON PARK
284317082330601	CHASSAHOWITZKA #1	CITRUS	284318.932	823306.362	Ca/MgHCO3	OCALA/AVON PARK
282229082405801	COASTAL PASCO #2	PASCO	282230.060	824056.116	NaCl	OCALA/AVON PARK
270440081434401	CROMWELL WELL #1	DESOTO	270440.424	814345.780	NaCl	OCALA/AVON PARK
285421082361602	CRYSTAL RIVER DEEP	CITRUS	285421.959	823613.632	NaCl	OCALA/AVON PARK
285421082361601	CRYSTAL RIVER SHALLOW	CITRUS	285422.502	823613.714	Ca/MgHCO3	OCALA/AVON PARK
285220082354401	CRYSTAL SHORES	CITRUS	285223.546	823534.641	Ca/MgHCO3	OCALA/AVON PARK
285224082354901	CRYSTAL SHORES ESTATES	CITRUS	285221.345	823539.264	NaCl	OCALA/AVON PARK
284758082343901	CSPR-1 FL HOMOSASSA ATTRA	CITRUS	284758.706	823439.294	Ca/MgHCO3	OCALA/AVON PARK
284758082343901	CSPR-1 FL HOMOSASSA ATTRA	CITRUS	284758.706	823439.294	Ca/MgHCO3	OCALA/AVON PARK
284316082342802	CSPR-3 FLORIDAN	CITRUS	284316.192	823428.432	Ca/MgHCO3	OCALA/AVON PARK
284751082362401	CSPR-4 NATURES RESORT UP	CITRUS	284751.072	823624.255	NaCl	OCALA/AVON PARK
283111082375802	CSPR-6 WQ INTERFACE MONIT	HERNANDO	283111.487	823757.806	NaCl	OCALA/AVON PARK
270313081391001	EMERALD ISLAND FARMS (DID	DESOTO	270330.571	813925.184	NaCl	OCALA/AVON PARK
270542081560301	EUGENE TURNER WELL	DESOTO	270542.674	815603.611	NaCl	OCALA/AVON PARK
272656082095801	FALKNER FARMS #1	MANATEE	272656.14	820958.30	CaSO4	OCALA/AVON PARK
285737082413001	FL POWER CORP # 2	CITRUS	285733.763	824110.322	NaCl	OCALA/AVON PARK
285737082400601	FPC WELL 3 NR CRYSTAL R	CITRUS	285733.664	824005.302	Ca/MgHCO3	OCALA/AVON PARK
282923082380301	HERNANDO BEACH SUPPLY	HERNANDO	282921.544	823758.021	Ca/MgHCO3	OCALA/AVON PARK
280058082252003	HILLS CO ASR DMW-1	HILLSBOROUGH	280059.615	822521.269	NaCl	OCALA/AVON PARK
280058082252002	HILLS CO ASR SZMW-1	HILLSBOROUGH	280103.326	822520.647	NaCl	OCALA/AVON PARK
284736082342901	HOMO SWD BRADSHAW 2	CITRUS	284734.716	823429.470	Ca/MgHCO3	OCALA/AVON PARK
284551082345301	HOMOSASSA WELL 3	CITRUS	284550.649	823453.662	NaCl	OCALA/AVON PARK
285554082373001	HRS 15 COON	CITRUS	285556.751	823731.511	Ca/MgHCO3	OCALA/AVON PARK
284243082343201	HRS 19A ZOLINGER	CITRUS	284239.485	823429.127	NaCl	OCALA/AVON PARK
283257082343201	HRS 54 KOSTER	HERNANDO	283255.148	823430.105	Ca/MgHCO3	OCALA/AVON PARK
270945082234401	KNIGHTS TRAIL FLORIDAN	SARASOTA	270935.220	822411.130	CaSO4	OCALA/AVON PARK
282600082392601	MAGNOLIA SPRINGS WELL	HERNANDO	282605.595	823909.546	Ca/MgHCO3	OCALA/AVON PARK
284803082351701	NORRIS WL AT HOMOSASSA	CITRUS	284804.579	823517.398	NaCl	OCALA/AVON PARK
280725082412801	NWHWRAP-1D	PINELLAS	280724.034	824125.387	NaCl	OCALA/AVON PARK
280033082284902	NWHWRAP-2D	HILLSBOROUGH	280034.009	822848.490	NaCl	OCALA/AVON PARK
281142082424002	NWHWRAP-3D	PASCO	281142.471	824239.509	NaCl	OCALA/AVON PARK

Table 16. Water Types in the Ocala/Avon Park Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
280411082364301	NWHWRAP-4D	HILLSBOROUGH	280411.606	823642.316	CaSO4	OCALA/AVON PARK
282956082333001	OAKHILL GOLF COURSE 1	HERNANDO	283003.297	823327.468	Ca/MgHCO3	OCALA/AVON PARK
285102082361001	OZELLO WL 4 NR CRYSTAL R	CITRUS	285103.022	823611.466	NaCl	OCALA/AVON PARK
270228081443205	ROMP 12 DP UP FLORIDAN	DESOTO	270228.018	814432.718	NaCl	OCALA/AVON PARK
290200082432301	ROMP 124 DEEP	LEVY	290200.955	824323.223	CaSO4	OCALA/AVON PARK
270417081370205	ROMP 13 AVON PARK	DESOTO	270418.869	813658.549	NaCl	OCALA/AVON PARK
270856081211404	ROMP 14 AVON PARK	HIGHLANDS	270859.16	812114.25	CaSO4	OCALA/AVON PARK
270340081530204	ROMP 16.5 AVON PARK	DESOTO	270340.560	815302.361	NaCl	OCALA/AVON PARK
271026081583601	ROMP 17 AP	DESOTO	271028.324	815835.497	CaSO4	OCALA/AVON PARK
271138082284605	ROMP 20 OCALA	SARASOTA	271138.616	822844.975	NaCl	OCALA/AVON PARK
271843082201704	ROMP 22 AVON PARK	SARASOTA	271843.495	822011.818	CaSO4	OCALA/AVON PARK
271843082201704	ROMP 22 AVON PARK	SARASOTA	271843.495	822011.818	CaSO4	OCALA/AVON PARK
271906082112401	ROMP 23-1 DEEP	MANATEE	271853.352	821039.274	CaSO4	OCALA/AVON PARK
272159082002504	ROMP 25 LILY AVON PARK	HARDEE	272159.250	820025.312	CaSO4	OCALA/AVON PARK
271757081493002	ROMP 26 AVON PARK	DESOTO	271758.647	814928.756	CaSO4	OCALA/AVON PARK
272207081260406	ROMP 28 EVAPORITE	HIGHLANDS	272207.727	812606.780	CaSO4	OCALA/AVON PARK
272207081260405	ROMP 28 L AVON PARK	HIGHLANDS	272207.727	812606.780	CaSO4	OCALA/AVON PARK
272207081260407	ROMP 28 UP AVON PARK	HIGHLANDS	272207.909	812606.853	Ca/MgHCO3	OCALA/AVON PARK
272728081474701	ROMP 30 AVON PARK	HARDEE	272733.394	814748.122	CaSO4	OCALA/AVON PARK
272814082034801	ROMP 32 AVON PARK	MANATEE	272815.010	820350.219	Ca/MgHCO3	OCALA/AVON PARK
272728082152901	ROMP 33 AVON PARK	MANATEE	272728.385	821525.661	CaSO4	OCALA/AVON PARK
273521082150501	ROMP 39 AVON PARK	MANATEE	273519.415	821504.965	Ca/MgHCO3	OCALA/AVON PARK
273851082031501	ROMP 40 AVON PARK	POLK	273852.267	820314.805	Ca/MgHCO3	OCALA/AVON PARK
273851082031501	ROMP 40 AVON PARK	POLK	273852.267	820314.805	Ca/MgHCO3	OCALA/AVON PARK
273615081284901	ROMP 43XX FLORIDAN	HIGHLANDS	273616.094	812848.373	Ca/MgHCO3	OCALA/AVON PARK
274547081470903	ROMP 45 AVON PARK	POLK	274551.569	814709.953	Ca/MgHCO3	OCALA/AVON PARK
274427082083703	ROMP 48 AVON PARK	HILLSBOROUGH	274427.173	820832.952	Ca/MgHCO3	OCALA/AVON PARK
274546082151403	ROMP 49 AVON PARK	HILLSBOROUGH	274546.535	821515.756	Ca/MgHCO3	OCALA/AVON PARK
265644081482905	ROMP 5 AVON PARK	CHARLOTTE	265644.869	814828.613	NaCl	OCALA/AVON PARK
274240082212703	ROMP 50 AVON PARK	HILLSBOROUGH	274241.322	822125.549	NaCl	OCALA/AVON PARK
274026082252101	ROMP 51 - ELAPP	HILLSBOROUGH	274032.703	822518.603	CaSO4	OCALA/AVON PARK
274026082252101	ROMP 51 - ELAPP	HILLSBOROUGH	274032.703	822518.603	CaSO4	OCALA/AVON PARK
275511081353802	ROMP 58 OCALA	POLK	275511.304	813538.150	Ca/MgHCO3	OCALA/AVON PARK
275110082185501	ROMP 62 - CAMPO	HILLSBOROUGH	275129.793	821852.471	Ca/MgHCO3	OCALA/AVON PARK

Table 16. Water Types in the Ocala/Avon Park Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
280320082203801	ROMP 67-1 AVON PARK	HILLSBOROUGH	280322.471	822037.405	CaSO4	OCALA/AVON PARK
270432082085705	ROMP 9 AVON PARK	SARASOTA	270434.768	820856.381	NaCl	OCALA/AVON PARK
290230082412501	ROMP TR 125 CRACKERT	LEVY	290229.483	824121.504	CaSO4	OCALA/AVON PARK
281542082405601	ROMP TR 16-3 UPPER FLORID	PASCO	281542.13	824056.40	NaCl	OCALA/AVON PARK
281526082395801	ROMP TR 16-4 UFA	PASCO	281526.38	823958.50	CaSO4	OCALA/AVON PARK
282742082375901	ROMP TR 18-1	HERNANDO	282742.504	823758.860	Ca/MgHCO3	OCALA/AVON PARK
282659082391102	ROMP TR 18-2 LOWER AV PK	HERNANDO	282700.347	823910.864	NaCl	OCALA/AVON PARK
282659082391104	ROMP TR 18-2 U AVON PARK	HERNANDO	282700.338	823910.891	Ca/MgHCO3	OCALA/AVON PARK
282750082391001	ROMP TR 18-2A UFA	HERNANDO	282750	823910	NaCl	OCALA/AVON PARK
282613082381701	ROMP TR 18-3 L AVON PARK	HERNANDO	282617.321	823811.050	CaSO4	OCALA/AVON PARK
282613082381701	ROMP TR 18-3 L AVON PARK	HERNANDO	282617.321	823811.050	CaSO4	OCALA/AVON PARK
282613082381704	ROMP TR 18-3 U AVON PARK	HERNANDO	282617.314	823811.052	Ca/MgHCO3	OCALA/AVON PARK
283243082365701	ROMP TR 19-2 DEEP	HERNANDO	283242.445	823656.215	NaCl	OCALA/AVON PARK
283957082342901	ROMP TR 20-2	HERNANDO	283956.994	823426.361	NaCl	OCALA/AVON PARK
283929082331102	ROMP TR 20-3 UFM	HERNANDO	283929.536	823311.353	Ca/MgHCO3	OCALA/AVON PARK
283929082331101	ROMP TR 20-3 UFWQM	HERNANDO	283929.797	823311.366	NaCl	OCALA/AVON PARK
285112082354401	ROMP TR 21-2 DP	CITRUS	285111.872	823548.380	NaCl	OCALA/AVON PARK
285234082341901	ROMP TR 21-3 AVON PA	CITRUS	285235.329	823417.136	NaCl	OCALA/AVON PARK
270919082234206	ROMP TR 5-2 OCALA	SARASOTA	270920.869	822341.648	CaSO4	OCALA/AVON PARK
272612082330101	ROMP TR 7-2 DEEP FL	MANATEE	272614.821	823300.925	NaCl	OCALA/AVON PARK
272539082292001	ROMP TR 7-4 AP	MANATEE	272539.796	822920.953	CaSO4	OCALA/AVON PARK
273458082324706	ROMP TR 8-1 OCALA	MANATEE	273459.584	823245.911	CaSO4	OCALA/AVON PARK
273458082324703	ROMP TR 8-1 U AV PK	MANATEE	273459.770	823245.740	NaCl	OCALA/AVON PARK
273433082305401	ROMP TR 8-2 AVON PARK	MANATEE	273432.88	823054.36	NaCl	OCALA/AVON PARK
274554082233801	ROMP TR 9-2 AP	HILLSBOROUGH	274555.288	822336.031	NaCl	OCALA/AVON PARK
274554082233802	ROMP TR 9-2 OCALA	HILLSBOROUGH	274554.756	822334.977	NaCl	OCALA/AVON PARK
274428082251503	ROMP TR 9-3 AP	HILLSBOROUGH	274427.540	822522.201	NaCl	OCALA/AVON PARK
274552082220501	ROMP TR AB-3	HILLSBOROUGH	274553.449	822204.513	NaCl	OCALA/AVON PARK
272049082324504	ROMP TR SA-1 AVON PARK	SARASOTA	272049.238	823245.124	CaSO4	OCALA/AVON PARK
272056082303701	ROMP TR SA-3 UP FLORIDAN	SARASOTA	272056.391	823037.259	CaSO4	OCALA/AVON PARK
270442081494301	ROPER GROVES WELL	DESOTO	270441.752	814940.938	NaCl	OCALA/AVON PARK
280053082350202	SHELDON RD DEEP	HILLSBOROUGH	280054.211	823500.170	NaCl	OCALA/AVON PARK
284457082330302	SUGARMILL MZ1 DUAL DEEP	CITRUS	284453.912	823303.163	NaCl	OCALA/AVON PARK
284457082330301	SUGARMILL MZ1 DUAL SH	CITRUS	284453.912	823303.163	Ca/MgHCO3	OCALA/AVON PARK

Table 16. Water Types in the Ocala/Avon Park Zone of the Upper Floridan Aquifer (continued)

Station ID	Station	County	Latitude	Longitude	Water Type	Aquifer/Formation Group
275215082201901	US PHOSPHORIC	HILLSBOROUGH	275217.103	822019.038	NaCl	OCALA/AVON PARK
290107082400501	USGS WELL CE 88	CITRUS	290108.112	824004.597	Ca/MgHCO3	OCALA/AVON PARK
280155082340001	WCRWSA RMP 13PZ	HILLSBOROUGH	280155.403	823358.855	NaCl	OCALA/AVON PARK
283101082360401	WEEKI WACHEE PRESERVE #4	HERNANDO	283103.159	823602.031	CaSO4	OCALA/AVON PARK
283527082365701	WEEKI WELL 2	HERNANDO	283527	823657	Ca/MgHCO3	OCALA/AVON PARK
283529082355801	WEEKI WELL 3	HERNANDO	283517.190	823556.842	Ca/MgHCO3	OCALA/AVON PARK

	Total # of wells	$Ca/MgHCO_3$		$CaSO_4$		NaCl	
		# of wells	% of total	# of wells	% of total	# of wells	% of total
Intermediate Aquifer System	***92***	45	**49%**	20	**22%**	27	**29%**
Tampa/Suwannee Zone	***121***	37	**31%**	45	**37%**	39	**32%**
Ocala/Avon Park Zone	***109***	35	**32%**	28	**26%**	46	**42%**

Table 17. Summary of water types within the three aquifer/formation groups based on samples collected during November 2003 - April 2004

		Group A vs. Group C (Baseline versus Current)				Group B vs Group C (Previous versus Current)				Group D vs Group E			
		Total # of wells	*Chloride*	*Sulfate*	*Cl/SO 4*	Total # of wells	*Chloride*	*Sulfate*	*Cl/SO 4*	Total # of wells	*Chloride*	*Sulfate*	*Cl/SO 4*
Intermediate Aquifer System	**Increasing Trend**	***22***	14%	9%	14%	***55***	6%	13%	5%	***56***	9%	9%	16%
	Decreasing Trend	***22***	5%	14%	14%	***55***	11%	5%	16%	***56***	14%	18%	13%
Tampa/Suwannee Zone	**Increasing Trend**	***38***	21%	8%	13%	***67***	7%	7%	3%	***99***	21%	12%	20%
	Decreasing Trend	***38***	13%	16%	16%	***67***	6%	5%	0%	***99***	16%	12%	10%
Ocala/Avon Park Zone	**Increasing Trend**	***30***	53%	27%	40%	***48***	25%	15%	21%	***77***	25%	18%	25%
	Decreasing Trend	***30***	3%	7%	0%	***48***	0%	4%	0%	***77***	4%	13%	0%

Table 18. Percentage of wells that demonstrate significantly increasing/decreasing trends in chloride, sulfate and chloride/sulfate ratio

Table 19. Chloride Trend in the Intermediate Aquifer System (Baseline Group A vs. Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
265834082202401	ENGLEWOOD # 14	463	0	0.10	No		3	65.00	6	75.30	10.30	15.84%
271227082084801	MABRY CARLTON # 6	124	0	0.87	No		3	48.00	6	47.35	-0.65	-1.35%
270137082235301	MANASOTA DEEP # 14	404	0	0.19	No		6	56.00	6	54.60	-1.40	-2.50%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.07	No		3	82.00	5	91.10	9.10	11.10%
270152082002806	ROMP 10 LIMESTONE	285	0	0.67	No		6	446.50	6	453.50	7.00	1.57%
265837081561101	ROMP 11 DEEP	320	0	0.38	No		3	669.00	6	677.77	8.77	1.31%
271138082284603	ROMP 20 LOWER INT	11303	0	0.00	Yes	Increasing	6	72.00	6	111.00	39.00	54.17%
271138082284602	ROMP 20 UPPER INT	11304	0	0.39	No		3	89.00	5	81.90	-7.10	-7.98%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.67	No		3	159.00	6	162.50	3.50	2.20%
271813082201201	ROMP 22 UPPER INT	11174	0	0.79	No		3	81.00	5	81.89	0.89	1.10%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.70	No		6	920.00	6	907.00	-13.00	-1.41%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.17	No		6	456.00	3	379.00	-77.00	-16.89%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.06	No		6	616.50	6	514.42	-102.08	-16.56%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.90	No		6	934.50	3	921.00	-13.50	-1.44%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00	Yes	Decreasing	6	2939.00	6	1895.00	-1044.00	-35.52%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.33	No		3	32.00	6	30.90	-1.10	-3.44%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.24	No		3	36.00	6	39.21	3.21	8.92%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.02	Yes	Increasing	6	494.00	6	527.50	33.50	6.78%
273458082324707	ROMP TR 8-1 INT	257	0	0.44	No		3	102.00	6	100.99	-1.01	-0.99%
265127081532501	USGS C-1	1319	0	1.00	No		3	1170.00	6	1179.05	9.05	0.77%
265504082000601	USGS C-3	775	0	0.10	No		3	95.00	6	103.00	8.00	8.42%
265124081453701	USGS TUCKERS CORNER	1318	0	0.02	Yes	Increasing	3	35.00	6	50.45	15.45	44.14%

Table 20. Chloride Trend in the Intermediate Aquifer System (Previous Group B vs. Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
271948082160801	AYECH - ROMP 24 INT	12949	0	0.07	No		3	25.10	7	22.00	-3.10	-12.35%
271134082092201	BIG SLOUGH DEEP	348	0	0.16	No		3	104.00	7	103.00	-1.00	-0.96%
271623081520101	CAMP CHANYATAH INT	891	0	0.07	No		3	31.40	7	28.50	-2.90	-9.24%
265834082202401	ENGLEWOOD # 14	463	0	0.79	No		4	74.70	7	75.19	0.49	0.66%
273253082072801	ESTECH HAWTHORNE 44	1107	0	0.57	No		3	11.20	7	11.40	0.20	1.79%
274155081573201	FT GREEN SPRINGS RD WELL	536	0	0.04	Yes	Decreasing	3	64.50	7	63.50	-1.00	-1.55%
271227082084801	MABRY CARLTON # 6	124	0	0.93	No		4	47.50	7	47.10	-0.40	-0.84%
270137082235301	MANASOTA DEEP # 14	404	0	0.05	Yes	Decreasing	6	55.85	7	54.60	-1.25	-2.24%
272405082072501	PATRICIA GALLAGHER	1102	0	0.83	No		3	5.12	7	5.03	-0.09	-1.76%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.48	No		4	90.60	6	93.80	3.20	3.53%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.32	No		4	685.00	5	676.00	-9.00	-1.31%
270152082002806	ROMP 10 LIMESTONE	285	0	0.76	No		6	449.00	7	448.00	-1.00	-0.22%
265837081561101	ROMP 11 DEEP	320	0	0.93	No		4	673.00	7	682.54	9.54	1.42%
270417081370203	ROMP 13 LOW INT	12870	0	0.13	No		6	33.05	7	32.40	-0.65	-1.97%
270417081370202	ROMP 13 MID INT	12871	0	0.31	No		6	30.45	7	30.10	-0.35	-1.15%
270856081211402	ROMP 14 INTERMEDIATE	12873	0	0.18	No		3	3.74	7	4.04	0.30	8.02%
271115081462702	ROMP 16 HAWTHORNE	414	0	1.00	No		3	41.70	7	41.80	0.10	0.24%
271026081583604	ROMP 17 INT	11043	0	0.67	No		3	72.60	7	72.20	-0.40	-0.55%
271021082151602	ROMP 19 EUAM	10937	0	0.38	No		3	74.80	7	57.20	-17.60	-23.53%
271138082284603	ROMP 20 LOWER INT	11303	0	0.01	Yes	Increasing	6	98.40	7	108.00	9.60	9.76%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.89	No		4	161.00	7	162.00	1.00	0.62%
271906082112405	ROMP 23 PZ2	17416	0	0.17	No		3	7.02	6	7.22	0.20	2.85%
272159082002502	ROMP 25 LILY ARCADIA	17313	0	0.83	No		3	5.89	7	6.15	0.26	4.41%
271757081493003	ROMP 26 HAWTHORN	258	0	0.52	No		3	11.00	7	11.20	0.20	1.82%
272207081260402	ROMP 28 INTERMEDIATE	11875	0	0.30	No		3	12.40	7	12.70	0.30	2.42%
272714081545902	ROMP 31 HAWTHORN	41	0	0.55	No		3	110.00	6	101.56	-8.45	-7.68%
272728082152903	ROMP 33 INT	300	0	0.32	No		3	15.50	7	15.90	0.40	2.58%
273521082150503	ROMP 39 INTERMEDIATE	11450	0	0.38	No		3	4.32	7	4.14	-0.18	-4.17%
273851082031502	ROMP 40 HAWTHORNE	370	0	0.52	No		3	52.50	7	51.40	-1.10	-2.10%
274547081470901	ROMP 45 HAWTHORNE	30	0	0.67	No		3	5.20	7	5.14	-0.06	-1.15%
265644081482903	ROMP 5 LOWER INT	12883	0	0.25	No		6	704.50	7	694.00	-10.50	-1.49%
265644081482902	ROMP 5 UPPER INT	12882	0	1.00	No		6	216.00	7	214.91	-1.09	-0.50%
275411081372002	ROMP 57-2 HAWTHORNE	10882	0	0.02	Yes	Increasing	3	9.51	7	10.60	1.09	11.46%
275314081514203	ROMP 59 U HAWTHORN	518	0	0.18	No		3	13.60	7	14.55	0.95	6.99%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.22	No		6	398.00	7	414.00	16.00	4.02%
270432082085704	ROMP 9 LOWER INT	12900	0	0.29	No		6	454.00	7	436.00	-18.00	-3.96%
270737082025204	ROMP 9.5 LOW INT	17423	0	0.97	No		5	93.00	7	94.00	1.00	1.08%
270737082025001	ROMP 9.5 UPPER INT	13380	0	0.01	Yes	Decreasing	5	87.30	7	84.40	-2.90	-3.32%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.76	No		6	900.00	7	903.00	3.00	0.33%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.95	No		6	519.50	7	515.00	-4.50	-0.87%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.06	No		6	1935.50	7	1880.00	-55.50	-2.87%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.86	No		6	224.50	7	223.00	-1.50	-0.67%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.00	Yes	Decreasing	6	83.75	7	81.70	-2.05	-2.45%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.35	No		6	10643.50	7	11200.00	556.50	5.23%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.15	No		4	35.55	7	30.90	-4.65	-13.08%

Table 20. Chloride Trend in the Intermediate Aquifer System (Previous Group B vs. Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270919082234203	ROMP TR 5-2 L HAW	3	0	0.79	No		4	40.45	7	39.42	-1.03	-2.55%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.45	No		6	510.00	7	523.00	13.00	2.55%
272539082292004	ROMP TR 7-4 HAWTH	10925	0	0.18	No		3	40.80	7	37.00	-3.80	-9.31%
273458082324707	ROMP TR 8-1 INT	257	0	0.03	Yes	Decreasing	4	102.50	7	100.98	-1.52	-1.48%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.00	Yes	Decreasing	6	182.50	7	177.00	-5.50	-3.01%
273156081451401	ROWELL DEEP	36	0	0.24	No		3	9.55	7	10.10	0.55	5.76%
271853082250801	THOMAS DARNELL	1270	0	0.08	No		3	50.00	7	43.50	-6.50	-13.00%
265127081532501	USGS C-1	1319	0	0.29	No		4	1199.50	7	1178.10	-21.40	-1.78%
265504082000601	USGS C-3	775	0	0.15	No		4	98.00	7	103.00	5.00	5.10%
265124081453701	USGS TUCKERS CORNER	1318	0	0.02	Yes	Increasing	4	34.95	7	49.40	14.45	41.34%

Table 21. Chloride Trend in the Intermediate Aquifer System (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
272133082324701	CITY OF SARA 27TH ST	273	0	0.29	No		7	138.00	6	141.50	3.50	2.54%
265834082202401	ENGLEWOOD # 14	463	0	0.06	No		6	65.05	11	75.19	10.14	15.59%
270113082223301	ENGLEWOOD #5 HAWTHORNE	1360	0	0.85	No		6	770.50	6	795.98	25.48	3.31%
270113082223302	ENGLEWOOD PROD #5	723	0	0.10	No		4	169.50	6	163.88	-5.62	-3.32%
270540082001102	GDU WELL T-2	11671	0	0.10	No		6	142.50	6	135.47	-7.04	-4.94%
270945082234402	KNIGHTS TRAIL UP INT	1305	0	0.08	No		5	69.10	6	65.68	-3.42	-4.95%
271227082084801	MABRY CARLTON # 6	124	0	0.59	No		6	48.00	11	47.60	-0.40	-0.83%
270137082235301	MANASOTA DEEP # 14	404	0	0.13	No		15	56.00	15	55.50	-0.50	-0.89%
270406082220103	PLANTATION HAWTHORNE	1268	0	0.06	No		5	68.00	6	72.83	4.83	7.10%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.01	Yes	Increasing	6	79.50	10	90.60	11.10	13.96%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.26	No		6	720.00	9	682.00	-38.00	-5.28%
270240081465002	PRAIRIE CR UP INT-AG	11611	0	0.97	No		6	157.00	6	156.38	-0.62	-0.39%
265138082002201	PUNTA GORDA HEIGHTS	705	0	0.00	Yes	Increasing	6	364.00	6	388.42	24.42	6.71%
270417081575601	ROB LANE (G.V. RUSSELL)	877	0	0.00	Yes	Increasing	6	293.50	6	329.41	35.91	12.23%
270152082002807	ROMP 10 HAWTHORN	288	0	0.17	No		6	344.50	6	363.39	18.89	5.48%
270152082002806	ROMP 10 LIMESTONE	285	0	0.60	No		15	442.00	15	448.00	6.00	1.36%
265837081561101	ROMP 11 DEEP	320	0	0.16	No		6	666.50	11	682.54	16.04	2.41%
270417081370203	ROMP 13 LOW INT	12870	0	0.41	No		5	33.00	15	32.80	-0.20	-0.61%
270417081370202	ROMP 13 MID INT	12871	0	0.01	Yes	Decreasing	5	31.00	15	30.40	-0.60	-1.94%
270959082203002	ROMP 19 WUAM	10938	0	0.37	No		6	87.65	7	86.70	-0.95	-1.08%
271138082284603	ROMP 20 LOWER INT	11303	0	0.00	Yes	Increasing	15	70.00	15	101.00	31.00	44.29%
271138082284602	ROMP 20 UPPER INT	11304	0	0.35	No		6	88.50	8	86.20	-2.30	-2.60%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.71	No		6	163.50	11	162.00	-1.50	-0.92%
271813082201201	ROMP 22 UPPER INT	11174	0	0.80	No		5	81.80	8	82.45	0.65	0.79%
265644081482903	ROMP 5 LOWER INT	12883	0	0.03	Yes	Decreasing	5	754.00	15	702.00	-52.00	-6.90%
265644081482902	ROMP 5 UPPER INT	12882	0	0.51	No		5	220.00	15	214.91	-5.09	-2.31%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.90	No		7	401.00	15	407.00	6.00	1.50%
270432082085704	ROMP 9 LOWER INT	12900	0	1.00	No		7	446.00	15	445.00	-1.00	-0.22%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.42	No		15	918.00	15	903.00	-15.00	-1.63%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.01	Yes	Decreasing	15	435.00	10	406.50	-28.50	-6.55%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.59	No		15	520.00	15	517.00	-3.00	-0.58%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.39	No		15	950.00	10	928.50	-21.50	-2.26%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00	Yes	Decreasing	15	2507.00	15	1935.00	-572.00	-22.82%
265531082194805	ROMP TR 3-3 U HAWTH	11071	1	0.04	Yes	Decreasing	15	928.00	9	823.00	-105.00	-11.31%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.75	No		5	227.00	15	223.00	-4.00	-1.76%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.00	Yes	Decreasing	5	89.90	15	83.50	-6.40	-7.12%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.11	No		5	9020.00	14	10643.50	1623.50	18.00%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.39	No		6	32.00	11	30.90	-1.10	-3.44%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.16	No		6	36.00	11	39.00	3.00	8.33%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.26	No		15	500.00	15	515.00	15.00	3.00%
272612082330103	ROMP TR 7-2 LOWER INT	11391	0	0.05	Yes	Decreasing	5	53.00	6	52.03	-0.97	-1.83%
272612082330104	ROMP TR 7-2 UP HAWTHORN	11392	0	0.24	No		6	76.50	6	78.88	2.38	3.11%
273458082324707	ROMP TR 8-1 INT	257	0	0.10	No		7	104.00	11	101.00	-3.00	-2.88%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.00	Yes	Decreasing	7	211.00	15	182.00	-29.00	-13.74%
265158082171701	ROTUNDA WATER PLANT 18	774	0	0.66	No		6	4561.50	5	4940.00	378.50	8.30%

Table 21. Chloride Trend in the Intermediate Aquifer System (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
271222082295201	SARASOTA HISTORICAL SOC	1241	0	0.78	No		6	37.50	6	36.90	-0.60	-1.60%
271035082285901	SOUTHBAY UTILITIES DEEP	1243	0	0.33	No		6	272.50	5	243.19	-29.31	-10.76%
265646081554501	SR 74 DEEP WELL	566	0	0.00	Yes	Increasing	6	119.00	6	127.37	8.37	7.03%
270714082155201	TEST 18 BLACKBURN WELL	1251	0	0.24	No		6	173.00	6	189.00	16.00	9.25%
265127081532501	USGS C-1	1319	0	0.71	No		6	1188.50	11	1189.00	0.50	0.04%
265504082000601	USGS C-3	775	0	0.07	No		6	93.95	11	102.00	8.05	8.57%
265124081453701	USGS TUCKERS CORNER	1318	0	0.08	No		6	35.00	11	45.90	10.90	31.14%
270542082261801	VENICE # 35	410	0	0.35	No		7	118.00	10	116.49	-1.51	-1.28%
270558082245501	VENICE SH WF 59	1258	0	0.37	No		6	60.00	6	55.95	-4.05	-6.75%
270558082241501	VENICE SH WF 68	1254	0	0.06	No		6	134.00	6	95.41	-38.60	-28.80%
272119082325101	WHITAKER BAYOU WELL	731	0	0.41	No		6	140.50	6	145.54	5.04	3.59%

Table 22. Sulfate Trend in the Intermediate Aquifer System (Baseline Group A vs. Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
265834082202401	ENGLEWOOD # 14	463	0	0.02	Yes	Decreasing	3	4.60	6	2.55	-2.06	-44.67%
271227082084801	MABRY CARLTON # 6	124	0	0.71	No		3	232.00	6	228.50	-3.50	-1.51%
270137082235301	MANASOTA DEEP # 14	404	0	0.71	No		6	31.50	6	31.95	0.45	1.43%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.93	No		3	20.00	5	22.90	2.90	14.50%
270152082002806	ROMP 10 LIMESTONE	285	0	0.08	No		6	237.50	6	227.00	-10.50	-4.42%
265837081561101	ROMP 11 DEEP	320	0	0.76	No		3	259.00	6	260.00	1.00	0.39%
271138082284603	ROMP 20 LOWER INT	11303	0	0.97	No		6	1507.00	6	1520.00	13.00	0.86%
271138082284602	ROMP 20 UPPER INT	11304	0	0.04	Yes	Decreasing	3	698.00	5	587.00	-111.00	-15.90%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.38	No		3	71.00	6	67.65	-3.35	-4.72%
271813082201201	ROMP 22 UPPER INT	11174	0	0.13	No		3	44.00	5	42.90	-1.10	-2.50%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.33	No		6	277.00	6	272.50	-4.50	-1.62%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.90	No		6	134.00	3	115.00	-19.00	-14.18%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.12	No		6	468.00	6	500.00	32.00	6.84%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.85	No		6	13.00	3	11.50	-1.50	-11.54%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00	Yes	Decreasing	6	470.00	6	403.01	-67.00	-14.25%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.38	No		3	1001.00	6	975.00	-26.00	-2.60%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.21	No		3	1062.00	6	1080.00	18.00	1.69%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.00	Yes	Increasing	6	1106.50	6	1209.04	102.54	9.27%
273458082324707	ROMP TR 8-1 INT	257	0	0.31	No		3	35.00	6	36.05	1.05	3.00%
265127081532501	USGS C-1	1319	0	1.00	No		3	269.00	6	269.50	0.50	0.19%
265504082000601	USGS C-3	775	0	0.71	No		3	5.70	6	6.16	0.46	7.98%
265124081453701	USGS TUCKERS CORNER	1318	0	0.02	Yes	Increasing	3	1.00	6	6.67	5.67	567.00%

Table 23. Sulfate Trend in the Intermediate Aquifer System (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
271948082160801	AYECH - ROMP 24 INT	12949	0	0.43	No		3	13.10	7	11.70	-1.40	-10.69%
271134082092201	BIG SLOUGH DEEP	348	0	0.29	No		3	78.10	7	76.20	-1.90	-2.43%
271623081520101	CAMP CHANYATAH INT	891	0	0.53	No		3	173.00	7	173.00	0.00	0.00%
265834082202401	ENGLEWOOD # 14	463	0	0.56	No		4	2.66	7	2.54	-0.12	-4.33%
273253082072801	ESTECH HAWTHORNE 44	1107	0	0.07	No		3	1.14	7	0.66	-0.48	-42.11%
274155081573201	FT GREEN SPRINGS RD WELL	536	0	0.48	No		3	14.30	7	14.80	0.50	3.50%
271227082084801	MABRY CARLTON # 6	124	0	0.04	Yes	Increasing	4	208.50	7	231.00	22.50	10.79%
270137082235301	MANASOTA DEEP # 14	404	0	0.03	Yes	Decreasing	6	32.45	7	31.90	-0.55	-1.69%
272405082072501	PATRICIA GALLAGHER	1102	0	0.77	No		3	0.12	7	0.12	0.00	0.00%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.26	No		4	10.83	6	22.30	11.48	106.00%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.68	No		4	277.00	5	283.00	6.00	2.17%
270152082002806	ROMP 10 LIMESTONE	285	0	0.17	No		6	225.00	7	227.00	2.00	0.89%
265837081561101	ROMP 11 DEEP	320	0	0.53	No		4	248.50	7	261.00	12.50	5.03%
270417081370203	ROMP 13 LOW INT	12870	0	1.00	No		6	24.95	7	26.00	1.05	4.21%
270417081370202	ROMP 13 MID INT	12871	0	0.71	No		6	14.45	7	13.98	-0.47	-3.25%
270856081211402	ROMP 14 INTERMEDIATE	12873	0	0.83	No		3	2.56	7	2.61	0.05	1.95%
271115081462702	ROMP 16 HAWTHORNE	414	0	0.62	No		3	14.20	7	12.90	-1.30	-9.15%
271026081583604	ROMP 17 INT	11043	0	0.07	No		3	94.50	7	100.00	5.50	5.82%
271021082151602	ROMP 19 EUAM	10937	0	0.02	Yes	Increasing	3	44.30	7	163.69	119.39	269.50%
271138082284603	ROMP 20 LOWER INT	11303	0	0.92	No		6	1510.00	7	1520.00	10.00	0.66%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.79	No		4	68.40	7	67.80	-0.60	-0.88%
271906082112405	ROMP 23 PZ2	17416	0	0.60	No		3	0.38	6	0.26	-0.13	-32.89%
272159082002502	ROMP 25 LILY ARCADIA	17313	0	0.02	Yes	Increasing	3	0.84	7	1.62	0.78	92.86%
271757081493003	ROMP 26 HAWTHORN	258	0	0.38	No		3	44.10	7	45.10	1.00	2.27%
272207081260402	ROMP 28 INTERMEDIATE	11875	0	0.83	No		3	4.01	7	4.37	0.36	8.98%
272714081545902	ROMP 31 HAWTHORN	41	0	0.71	No		3	83.10	6	82.15	-0.95	-1.14%
272728082152903	ROMP 33 INT	300	0	0.29	No		3	0.59	7	0.53	-0.06	-10.17%
273521082150503	ROMP 39 INTERMEDIATE	11450	0	0.23	No		3	0.46	7	0.12	-0.34	-73.91%
273851082031502	ROMP 40 HAWTHORNE	370	0	0.97	No		3	0.85	7	0.73	-0.12	-14.12%
274547081470901	ROMP 45 HAWTHORNE	30	0	0.27	No		3	6.13	7	6.31	0.18	2.94%
265644081482903	ROMP 5 LOWER INT	12883	0	0.53	No		6	189.50	7	191.38	1.88	0.99%
265644081482902	ROMP 5 UPPER INT	12882	0	0.63	No		6	38.05	7	36.47	-1.58	-4.15%
275411081372002	ROMP 57-2 HAWTHORNE	10882	0	0.02	Yes	Increasing	3	3.50	7	6.04	2.54	72.57%
275314081514203	ROMP 59 U HAWTHORN	518	0	0.02	Yes	Decreasing	3	5.66	7	4.47	-1.19	-21.02%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.00	Yes	Increasing	6	58.15	7	87.70	29.55	50.82%
270432082085704	ROMP 9 LOWER INT	12900	0	0.45	No		6	265.00	7	251.00	-14.00	-5.28%
270737082025204	ROMP 9.5 LOW INT	17423	0	0.37	No		5	41.40	7	39.00	-2.40	-5.80%
270737082025001	ROMP 9.5 UPPER INT	13380	0	0.76	No		5	68.10	7	69.00	0.90	1.32%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.47	No		6	269.00	7	273.00	4.00	1.49%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.37	No		6	503.00	7	498.00	-5.00	-0.99%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.47	No		6	412.50	7	403.00	-9.50	-2.30%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.98	No		6	505.00	7	500.00	-5.00	-0.99%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.25	No		6	26.60	7	27.60	1.00	3.76%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.29	No		6	1236.00	7	1310.00	74.00	5.99%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.93	No		4	971.50	7	964.00	-7.50	-0.77%

Table 23. Sulfate Trend in the Intermediate Aquifer System (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270919082234203	ROMP TR 5-2 L HAW	3	0	0.37	No		4	1066.00	7	1080.00	14.00	1.31%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.13	No		6	1156.00	7	1208.08	52.08	4.51%
272539082292004	ROMP TR 7-4 HAWTH	10925	0	0.02	Yes	Decreasing	3	149.00	7	123.56	-25.44	-17.07%
273458082324707	ROMP TR 8-1 INT	257	0	0.29	No		4	39.00	7	36.00	-3.00	-7.69%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.17	No		6	472.00	7	458.00	-14.00	-2.97%
273156081451401	ROWELL DEEP	36	0	0.11	No		3	8.43	7	10.00	1.57	18.62%
271853082250801	THOMAS DARNELL	1270	0	0.04	Yes	Increasing	3	357.00	7	434.00	77.00	21.57%
265127081532501	USGS C-1	1319	0	0.21	No		4	280.50	7	268.00	-12.50	-4.46%
265504082000601	USGS C-3	775	0	0.23	No		4	5.93	7	6.18	0.26	4.30%
265124081453701	USGS TUCKERS CORNER	1318	0	0.01	Yes	Increasing	4	1.12	7	6.62	5.51	493.72%

Table 24. Sulfate Trend in the Intermediate Aquifer System (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
272133082324701	CITY OF SARA 27TH ST	273	0	0.23	No		7	634.00	6	723.50	89.50	14.12%
265834082202401	ENGLEWOOD # 14	463	0	0.00	Yes	Decreasing	6	3.85	11	2.54	-1.31	-34.03%
270113082223301	ENGLEWOOD #5 HAWTHORNE	1360	0	0.48	No		6	123.00	6	114.03	-8.98	-7.30%
270113082223302	ENGLEWOOD PROD #5	723	0	0.17	No		4	13.50	6	9.36	-4.15	-30.70%
270540082001102	GDU WELL T-2	11671	0	0.86	No		6	231.50	6	233.00	1.50	0.65%
270945082234402	KNIGHTS TRAIL UP INT	1305	0	0.19	No		5	212.00	6	210.93	-1.08	-0.51%
271227082084801	MABRY CARLTON # 6	124	0	0.26	No		6	231.00	11	217.00	-14.00	-6.06%
270137082235301	MANASOTA DEEP # 14	404	0	0.86	No		15	32.00	15	32.20	0.20	0.63%
270406082220103	PLANTATION HAWTHORNE	1268	0	0.40	No		5	29.00	6	30.40	1.40	4.81%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.81	No		6	20.50	10	21.50	1.00	4.88%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.71	No		6	280.00	9	279.00	-1.00	-0.36%
270240081465002	PRAIRIE CR UP INT-AG	11611	0	0.46	No		6	60.00	6	59.08	-0.92	-1.53%
265138082002201	PUNTA GORDA HEIGHTS	705	0	0.31	No		6	64.50	6	66.93	2.43	3.77%
270417081575601	ROB LANE (G.V. RUSSELL)	877	0	0.56	No		6	174.50	6	173.64	-0.86	-0.49%
270152082002807	ROMP 10 HAWTHORN	288	0	0.37	No		6	152.00	6	151.63	-0.37	-0.24%
270152082002806	ROMP 10 LIMESTONE	285	0	0.08	No		15	232.00	15	225.58	-6.42	-2.77%
265837081561101	ROMP 11 DEEP	320	0	0.61	No		6	258.00	11	259.00	1.00	0.39%
270417081370203	ROMP 13 LOW INT	12870	0	0.43	No		5	28.00	15	26.30	-1.70	-6.07%
270417081370202	ROMP 13 MID INT	12871	0	0.13	No		5	13.00	15	14.60	1.60	12.31%
270959082203002	ROMP 19 WUAM	10938	0	0.00	Yes	Decreasing	6	56.00	7	54.00	-2.00	-3.57%
271138082284603	ROMP 20 LOWER INT	11303	0	0.20	No		15	1482.00	15	1510.00	28.00	1.89%
271138082284602	ROMP 20 UPPER INT	11304	0	0.04	Yes	Decreasing	6	684.00	8	597.50	-86.50	-12.65%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.21	No		6	71.00	11	67.80	-3.20	-4.51%
271813082201201	ROMP 22 UPPER INT	11174	0	0.12	No		5	44.00	8	43.14	-0.86	-1.95%
265644081482903	ROMP 5 LOWER INT	12883	0	0.02	Yes	Decreasing	5	213.00	15	191.38	-21.62	-10.15%
265644081482902	ROMP 5 UPPER INT	12882	0	0.17	No		5	40.00	15	37.70	-2.30	-5.75%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.02	Yes	Increasing	7	52.00	15	65.90	13.90	26.73%
270432082085704	ROMP 9 LOWER INT	12900	0	0.59	No		7	255.00	15	254.12	-0.88	-0.35%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.39	No		14	273.50	15	272.00	-1.50	-0.55%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.02	Yes	Decreasing	15	126.00	10	113.50	-12.50	-9.92%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.24	No		15	497.00	15	502.00	5.00	1.01%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.63	No		15	14.00	10	12.10	-1.90	-13.57%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00	Yes	Decreasing	15	453.00	15	403.01	-49.99	-11.04%
265531082194805	ROMP TR 3-3 U HAWTH	11071	1	0.00	Yes	Decreasing	14	111.50	9	89.00	-22.50	-20.18%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.88	No		5	503.00	15	503.00	0.00	0.00%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.02	Yes	Decreasing	5	33.40	15	26.80	-6.60	-19.76%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.04	Yes	Increasing	5	1062.00	14	1279.46	217.46	20.48%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.86	No		6	965.00	11	972.00	7.00	0.73%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.13	No		6	1039.50	11	1070.00	30.50	2.93%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.03	Yes	Increasing	15	1120.00	15	1190.00	70.00	6.25%
272612082330103	ROMP TR 7-2 LOWER INT	11391	0	0.30	No		5	195.00	6	202.28	7.28	3.73%
272612082330104	ROMP TR 7-2 UP HAWTHORN	11392	0	0.04	Yes	Increasing	6	45.00	6	61.70	16.70	37.11%
273458082324707	ROMP TR 8-1 INT	257	0	0.64	No		7	36.00	11	36.19	0.19	0.53%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.03	Yes	Decreasing	6	497.00	15	466.00	-31.00	-6.24%
265158082171701	ROTUNDA WATER PLANT 18	774	0	0.57	No		6	453.00	5	469.00	16.00	3.53%

Table 24. Sulfate Trend in the Intermediate Aquifer System (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
271222082295201	SARASOTA HISTORICAL SOC	1241	0	0.48	No		6	1160.00	6	1163.92	3.92	0.34%
271035082285901	SOUTHBAY UTILITIES DEEP	1243	0	0.25	No		6	1662.50	5	1720.00	57.50	3.46%
265646081554501	SR 74 DEEP WELL	566	0	0.29	No		6	100.50	6	98.91	-1.59	-1.58%
270714082155201	TEST 18 BLACKBURN WELL	1251	0	0.39	No		6	525.00	6	520.63	-4.37	-0.83%
265127081532501	USGS C-1	1319	0	0.57	No		6	267.50	11	272.00	4.50	1.68%
265504082000601	USGS C-3	775	0	0.30	No		6	5.25	11	6.12	0.87	16.57%
265124081453701	USGS TUCKERS CORNER	1318	0	0.01	Yes	Increasing	6	0.90	11	4.05	3.15	350.00%
270542082261801	VENICE # 35	410	0	0.55	No		7	372.00	10	366.00	-6.00	-1.61%
270558082245501	VENICE SH WF 59	1258	0	0.94	No		6	124.00	6	127.00	3.00	2.42%
270558082241501	VENICE SH WF 68	1254	0	0.03	Yes	Decreasing	6	275.00	6	164.62	-110.39	-40.14%
272119082325101	WHITAKER BAYOU WELL	731	0	0.39	No		6	155.50	6	162.50	7.00	4.50%

Table 25. Chloride:Sulfate Ratio Trend in the Intermediate Aquifer System (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
265834082202401	ENGLEWOOD # 14	463	0	0.02380	Yes	Increasing	3	14.13	6	30.38	16.25	114.99%
271227082084801	MABRY CARLTON # 6	124	0	0.71430	No		3	0.21	6	0.21	0.00	0.05%
270137082235301	MANASOTA DEEP # 14	404	0	0.38960	No		6	1.75	6	1.71	-0.04	-2.43%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.57140	No		3	3.85	5	4.41	0.56	14.59%
270152082002806	ROMP 10 LIMESTONE	285	0	0.09310	No		6	1.90	6	1.96	0.07	3.53%
265837081561101	ROMP 11 DEEP	320	0	0.38100	No		3	2.57	6	2.64	0.07	2.76%
271138082284603	ROMP 20 LOWER INT	11303	0	0.00220	Yes	Increasing	6	0.05	6	0.07	0.03	54.99%
271138082284602	ROMP 20 UPPER INT	11304	0	0.03570	Yes	Increasing	3	0.13	5	0.15	0.03	20.00%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.26190	No		3	2.34	6	2.40	0.06	2.73%
271813082201201	ROMP 22 UPPER INT	11174	0	0.14290	No		3	1.82	5	1.94	0.13	6.92%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.39390	No		6	3.28	6	3.33	0.04	1.35%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.26190	No		6	3.39	3	3.30	-0.10	-2.86%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.06490	No		6	1.26	6	1.03	-0.22	-17.77%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.90480	No		6	69.90	3	80.09	10.18	14.57%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00220	Yes	Decreasing	6	5.89	6	4.71	-1.18	-20.01%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.90480	No		3	0.03	6	0.03	0.00	-0.93%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.71430	No		3	0.03	6	0.04	0.00	7.08%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.04110	Yes	Decreasing	6	0.45	6	0.43	-0.02	-3.65%
273458082324707	ROMP TR 8-1 INT	257	0	0.26190	No		3	2.91	6	2.79	-0.12	-4.13%
265127081532501	USGS C-1	1319	0	0.86900	No		3	4.40	6	4.35	-0.05	-1.11%
265504082000601	USGS C-3	775	0	0.90480	No		3	16.67	6	16.63	-0.04	-0.24%
265124081453701	USGS TUCKERS CORNER	1318	0	0.02380	Yes	Decreasing	3	35.00	6	7.58	-27.42	-78.33%

Table 26. Chloride:Sulfate Trend in the Intermediate Aquifer System (Previous Group B vs. Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
271948082160801	AYECH - ROMP 24 INT	12949	0	1.00	No		3	1.92	7	1.86	-0.05	-2.81%
271134082092201	BIG SLOUGH DEEP	348	0	0.38	No		3	1.33	7	1.36	0.03	2.15%
271623081520101	CAMP CHANYATAH INT	891	0	0.02	Yes	Decreasing	3	0.18	7	0.17	-0.02	-8.93%
265834082202401	ENGLEWOOD # 14	463	0	0.53	No		4	28.61	7	32.51	3.90	13.64%
273253082072801	ESTECH HAWTHORNE 44	1107	0	0.07	No		3	9.65	7	18.33	8.68	90.00%
274155081573201	FT GREEN SPRINGS RD WELL	536	0	0.38	No		3	4.50	7	4.29	-0.21	-4.58%
271227082084801	MABRY CARLTON # 6	124	0	0.04	Yes	Decreasing	4	0.23	7	0.20	-0.03	-12.48%
270137082235301	MANASOTA DEEP # 14	404	0	0.95	No		6	1.73	7	1.71	-0.02	-0.87%
272405082072501	PATRICIA GALLAGHER	1102	0	0.67	No		3	39.25	7	41.92	2.67	6.79%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.76	No		4	54.78	6	4.43	-50.35	-91.91%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.41	No		4	2.49	5	2.43	-0.06	-2.47%
270152082002806	ROMP 10 LIMESTONE	285	0	0.84	No		6	1.95	7	1.94	-0.01	-0.67%
265837081561101	ROMP 11 DEEP	320	0	0.93	No		4	2.69	7	2.60	-0.09	-3.28%
270417081370203	ROMP 13 LOW INT	12870	0	0.95	No		6	1.31	7	1.23	-0.08	-6.04%
270417081370202	ROMP 13 MID INT	12871	0	0.95	No		6	2.10	7	2.10	0.00	0.04%
270856081211402	ROMP 14 INTERMEDIATE	12873	0	0.67	No		3	1.55	7	1.53	-0.02	-1.07%
271115081462702	ROMP 16 HAWTHORNE	414	0	0.83	No		3	2.89	7	3.16	0.28	9.59%
271026081583604	ROMP 17 INT	11043	0	0.12	No		3	0.77	7	0.71	-0.06	-7.50%
271021082151602	ROMP 19 EUAM	10937	0	0.02	Yes	Decreasing	3	1.69	7	0.38	-1.31	-77.55%
271138082284603	ROMP 20 LOWER INT	11303	0	0.02	Yes	Increasing	6	0.06	7	0.07	0.01	11.89%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.93	No		4	2.39	7	2.40	0.01	0.40%
271906082112405	ROMP 23 PZ2	17416	0	0.55	No		3	18.47	6	29.99	11.51	62.32%
272159082002502	ROMP 25 LILY ARCADIA	17313	0	0.02	Yes	Decreasing	3	8.01	7	3.60	-4.41	-55.08%
271757081493003	ROMP 26 HAWTHORN	258	0	0.83	No		3	0.25	7	0.25	0.00	0.68%
272207081260402	ROMP 28 INTERMEDIATE	11875	0	1.00	No		3	3.09	7	2.95	-0.14	-4.54%
272714081545902	ROMP 31 HAWTHORN	41	0	0.90	No		3	1.13	6	1.23	0.10	8.50%
272728082152903	ROMP 33 INT	300	0	0.29	No		3	25.59	7	30.00	4.41	17.22%
273521082150503	ROMP 39 INTERMEDIATE	11450	0	0.10	No		3	9.39	6	34.71	25.32	269.58%
273851082031502	ROMP 40 HAWTHORNE	370	0	1.00	No		3	61.76	7	69.18	7.41	12.00%
274547081470901	ROMP 45 HAWTHORNE	30	0	0.67	No		3	0.78	7	0.81	0.03	4.09%
265644081482903	ROMP 5 LOWER INT	12883	0	0.63	No		6	3.68	7	3.70	0.01	0.40%
265644081482902	ROMP 5 UPPER INT	12882	0	0.18	No		6	5.68	7	5.90	0.22	3.92%
275411081372002	ROMP 57-2 HAWTHORNE	10882	0	0.02	Yes	Decreasing	3	2.71	7	1.69	-1.03	-37.79%
275314081514203	ROMP 59 U HAWTHORN	518	0	0.03	Yes	Increasing	3	2.40	7	3.11	0.71	29.42%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.00	Yes	Decreasing	6	6.74	7	4.80	-1.94	-28.78%
270432082085704	ROMP 9 LOWER INT	12900	0	0.45	No		6	1.75	7	1.77	0.02	1.22%
270737082025204	ROMP 9.5 LOW INT	17423	0	0.43	No		5	2.25	7	2.43	0.18	8.19%
270737082025001	ROMP 9.5 UPPER INT	13380	0	0.76	No		5	1.28	7	1.24	-0.04	-3.17%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.45	No		6	3.38	7	3.32	-0.06	-1.66%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.53	No		6	1.03	7	1.03	0.00	0.20%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.18	No		6	4.83	7	4.69	-0.14	-2.85%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.45	No		6	0.45	7	0.45	0.00	-0.84%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.04	Yes	Decreasing	6	3.17	7	2.88	-0.29	-9.14%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.95	No		6	8.56	7	8.65	0.09	1.05%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.32	No		4	0.04	7	0.03	0.00	-13.01%

Table 26. Chloride:Sulfate Trend in the Intermediate Aquifer System (Previous Group B vs. Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270919082234203	ROMP TR 5-2 L HAW	3	0	1.00	No		4	0.04	7	0.04	0.00	-5.45%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.63	No		6	0.43	7	0.43	0.00	-0.97%
272539082292004	ROMP TR 7-4 HAWTH	10925	0	0.03	Yes	Increasing	3	0.25	7	0.29	0.04	16.52%
273458082324707	ROMP TR 8-1 INT	257	0	0.32	No		4	2.61	7	2.80	0.19	7.38%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.35	No		6	0.40	7	0.39	-0.01	-1.84%
273156081451401	ROWELL DEEP	36	0	0.67	No		3	1.06	7	1.04	-0.02	-1.82%
271853082250801	THOMAS DARNELL	1270	0	0.03	Yes	Decreasing	3	0.14	7	0.10	-0.04	-25.77%
265127081532501	USGS C-1	1319	0	0.75	No		4	4.37	7	4.38	0.01	0.33%
265504082000601	USGS C-3	775	0	0.79	No		4	16.60	7	16.61	0.01	0.09%
265124081453701	USGS TUCKERS CORNER	1318	0	0.01	Yes	Decreasing	4	31.35	7	7.81	-23.53	-75.08%

Table 27. Chloride:Sulfate Ratio Trend in the Intermediate Aquifer System (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
272133082324701	CITY OF SARA 27TH ST	273	0	0.18	No		7	0.21	6	0.19	-0.01	-6.85%
265834082202401	ENGLEWOOD # 14	463	0	0.00	Yes	Increasing	6	15.40	11	27.76	12.36	80.27%
270113082223301	ENGLEWOOD #5 HAWTHORNE	1360	0	0.48	No		6	6.14	6	6.79	0.66	10.68%
270113082223302	ENGLEWOOD PROD #5	723	0	0.17	No		4	12.57	6	17.28	4.71	37.47%
270540082001102	GDU WELL T-2	11671	0	0.18	No		6	0.62	6	0.58	-0.03	-5.23%
270945082234402	KNIGHTS TRAIL UP INT	1305	0	0.43	No		5	0.32	6	0.32	-0.01	-2.02%
271227082084801	MABRY CARLTON # 6	124	0	0.59	No		6	0.21	11	0.22	0.01	4.59%
270137082235301	MANASOTA DEEP # 14	404	0	0.35	No		15	1.75	15	1.73	-0.02	-1.41%
270406082220103	PLANTATION HAWTHORNE	1268	0	0.18	No		5	2.34	6	2.44	0.09	3.92%
265920082045601	PORT CHAR UTIL DEEP	512	0	0.31	No		6	3.91	10	4.40	0.49	12.46%
270133082034601	PORT CHARLOTTE DEEP	666	0	0.11	No		6	2.53	9	2.48	-0.05	-2.16%
270240081465002	PRAIRIE CR UP INT-AG	11611	0	0.31	No		6	2.58	6	2.67	0.09	3.44%
265138082002201	PUNTA GORDA HEIGHTS	705	0	0.39	No		6	5.60	6	5.80	0.20	3.57%
270417081575601	ROB LANE (G.V. RUSSELL)	877	0	0.00	Yes	Increasing	6	1.69	6	1.88	0.18	10.77%
270152082002807	ROMP 10 HAWTHORN	288	0	0.01	Yes	Increasing	6	2.29	6	2.41	0.12	5.30%
270152082002806	ROMP 10 LIMESTONE	285	0	0.03	Yes	Increasing	15	1.91	15	1.97	0.05	2.78%
265837081561101	ROMP 11 DEEP	320	0	0.12	No		6	2.57	11	2.67	0.10	4.00%
270417081370203	ROMP 13 LOW INT	12870	0	0.80	No		5	1.23	15	1.22	-0.01	-0.48%
270417081370202	ROMP 13 MID INT	12871	0	0.08	No		5	2.38	15	2.09	-0.30	-12.40%
270959082203002	ROMP 19 WUAM	10938	0	0.53	No		6	1.60	7	1.61	0.01	0.66%
271138082284603	ROMP 20 LOWER INT	11303	0	0.00	Yes	Increasing	15	0.05	15	0.07	0.02	41.33%
271138082284602	ROMP 20 UPPER INT	11304	0	0.04	Yes	Increasing	6	0.13	8	0.14	0.02	12.61%
271843082201702	ROMP 22 L INTERMEDIATE	11175	0	0.08	No		6	2.33	11	2.39	0.06	2.73%
271813082201201	ROMP 22 UPPER INT	11174	0	0.09	No		5	1.87	8	1.92	0.06	3.08%
265644081482903	ROMP 5 LOWER INT	12883	0	0.35	No		5	3.51	15	3.68	0.18	5.01%
265644081482902	ROMP 5 UPPER INT	12882	0	0.17	No		5	5.60	15	5.89	0.29	5.27%
270432082085702	ROMP 9 INTERMEDIATE	12899	0	0.00	Yes	Decreasing	7	7.71	15	6.18	-1.54	-19.91%
270432082085704	ROMP 9 LOWER INT	12900	0	0.08	No		7	1.72	15	1.77	0.05	3.09%
265026081585403	ROMP TR 1-2 L HAW	10947	0	0.65	No		14	3.31	15	3.34	0.03	0.79%
265026081585402	ROMP TR 1-2 UP INT	11333	0	0.20	No		15	3.48	10	3.57	0.10	2.78%
265638082130705	ROMP TR 3-1 L HAWTHO	2	1	0.87	No		15	1.04	15	1.03	-0.01	-0.49%
265638082130703	ROMP TR 3-1 U HAWTHO	10945	1	0.68	No		15	65.64	10	74.02	8.38	12.76%
265531082194804	ROMP TR 3-3 L INT	11071	0	0.00	Yes	Decreasing	15	5.80	15	4.79	-1.01	-17.39%
265531082194805	ROMP TR 3-3 U HAWTH	11071	1	0.04	Yes	Increasing	14	7.99	9	8.76	0.77	9.63%
270327082262904	ROMP TR 4-1 LOW INT	12904	0	0.44	No		5	0.45	15	0.45	0.01	1.24%
270327082262903	ROMP TR 4-1 MID INT	12953	0	0.05	No		5	2.69	15	3.11	0.42	15.46%
270327082262902	ROMP TR 4-1 UP INT	12954	0	0.13	No		5	9.26	14	8.67	-0.59	-6.37%
270808082270503	ROMP TR 5-1 INTERMED	10941	0	0.52	No		6	0.03	11	0.03	0.00	-2.42%
270919082234203	ROMP TR 5-2 L HAW	3	0	0.81	No		6	0.03	11	0.04	0.00	4.94%
271601082330501	ROMP TR 6-1 HAWTHORN	646	0	0.01	Yes	Decreasing	15	0.45	15	0.43	-0.01	-3.18%
272612082330103	ROMP TR 7-2 LOWER INT	11391	0	0.03	Yes	Decreasing	5	0.27	6	0.26	-0.02	-6.48%
272612082330104	ROMP TR 7-2 UP HAWTHORN	11392	0	0.04	Yes	Decreasing	6	1.66	6	1.29	-0.37	-22.31%
273458082324707	ROMP TR 8-1 INT	257	0	0.10	No		7	2.84	11	2.77	-0.07	-2.40%
272049082324502	ROMP TR SA-1 INTERMEDIATE	12002	0	0.00	Yes	Decreasing	6	0.44	15	0.39	-0.05	-11.36%
265158082171701	ROTUNDA WATER PLANT 18	774	0	0.93	No		6	10.23	5	10.34	0.10	1.02%

Table 27. Chloride:Sulfate Ratio Trend in the Intermediate Aquifer System (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
271222082295201	SARASOTA HISTORICAL SOC	1241	0	0.70	No		6	0.03	6	0.03	0.00	-2.77%
271035082285901	SOUTHBAY UTILITIES DEEP	1243	0	0.25	No		6	0.17	5	0.14	-0.02	-14.50%
265646081554501	SR 74 DEEP WELL	566	0	0.02	Yes	Increasing	6	1.20	6	1.30	0.10	8.62%
270714082155201	TEST 18 BLACKBURN WELL	1251	0	0.06	No		6	0.33	6	0.36	0.03	7.84%
265127081532501	USGS C-1	1319	0	0.79	No		6	4.45	11	4.39	-0.06	-1.28%
265504082000601	USGS C-3	775	0	0.68	No		6	17.60	11	16.64	-0.96	-5.48%
265124081453701	USGS TUCKERS CORNER	1318	0	0.01	Yes	Decreasing	6	39.38	11	11.09	-28.29	-71.84%
270542082261801	VENICE # 35	410	0	0.60	No		7	0.32	10	0.31	-0.01	-1.70%
270558082245501	VENICE SH WF 59	1258	0	0.82	No		6	0.47	6	0.41	-0.06	-12.34%
270558082241501	VENICE SH WF 68	1254	0	0.02	Yes	Increasing	6	0.50	6	0.58	0.08	16.62%
272119082325101	WHITAKER BAYOU WELL	731	0	0.31	No		6	0.91	6	0.88	-0.03	-3.12%

Table 28. Chloride Trend in the Tampa/Suwannee Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.02	Yes	Decreasing	3	43.00	6	37.65	-5.35	-12.44%
270540082001101	GDU WELL M-2	862	0	1.00	No		3	103.00	6	102.00	-1.00	-0.97%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.02	Yes	Increasing	3	112.00	6	126.00	14.00	12.50%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	6	673.00	6	2445.00	1772.00	263.30%
280033082284901	NWHWRAP-2	10856	0	0.14	No		3	28.00	5	37.60	9.60	34.29%
281142082424001	NWHWRAP-3	10771	0	0.02	Yes	Increasing	4	18.50	5	34.70	16.20	87.57%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.11	No		5	25.00	6	26.40	1.40	5.60%
272949082404001	PERICO ISLAND WELL	1106	0	0.38	No		3	501.00	6	566.00	65.00	12.97%
283203082370201	PRESBYTERIAN YOUTH CAMP	16	0	0.02	Yes	Increasing	3	1238.00	6	1838.72	600.72	48.52%
274031082150401	ROMP 123 DEEP	87	0	0.15	No		3	13.00	6	13.35	0.35	2.69%
271232081392201	ROMP 15 DEEP	10933	1	0.10	No		3	31.00	6	27.25	-3.75	-12.10%
271026081583602	ROMP 17 SWNN	11041	0	0.18	No		6	65.50	6	63.30	-2.20	-3.36%
271135082074801	ROMP 18 SUWANNEE	450	0	0.90	No		6	32.50	6	33.00	0.50	1.54%
271021082151601	ROMP 19 ELAM	10937	1	0.50	No		3	33.00	6	35.47	2.47	7.47%
271138082284604	ROMP 20 SWNN	11306	0	0.00	Yes	Decreasing	6	503.00	6	282.50	-220.50	-43.84%
271843082201703	ROMP 22 SWNN	11176	0	0.91	No		6	21.00	6	20.64	-0.36	-1.71%
272728082152902	ROMP 33 SWNN	299	0	0.55	No		6	15.50	6	15.10	-0.40	-2.58%
273521082150502	ROMP 39 SWNN	11451	0	0.89	No		5	14.00	6	13.06	-0.94	-6.71%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.67	No		3	13.00	6	13.20	0.20	1.54%
274546082151404	ROMP 49 SWN	10903	0	0.51	No		6	13.50	6	14.37	0.87	6.44%
274240082212701	ROMP 50 FLORIDAN	10914	0	1.00	No		6	14.00	5	14.20	0.20	1.43%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.58	No		3	181.00	6	180.00	-1.00	-0.55%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.06	No		6	1002.50	6	972.00	-30.50	-3.04%
281518082424301	ROMP TR 16-2	11006	0	0.60	No		3	102.00	6	106.50	4.50	4.41%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.00	Yes	Decreasing	6	438.00	6	412.00	-26.00	-5.94%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.39	No		6	8462.50	6	8800.00	337.50	3.99%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.96	No		3	286.00	6	285.50	-0.50	-0.17%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.00	Yes	Increasing	6	74.50	6	95.85	21.35	28.66%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.90	No		3	43.00	6	43.98	0.98	2.27%
272510082345701	ROMP TR 7-1	287	0	0.00	Yes	Decreasing	6	104.00	6	78.15	-25.85	-24.86%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.02	Yes	Decreasing	6	274.00	3	88.58	-185.42	-67.67%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.01	Yes	Increasing	6	38.50	6	43.10	4.60	11.95%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.06	No		6	138.50	7	130.00	-8.50	-6.14%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.00	Yes	Increasing	6	171.00	6	209.50	38.50	22.51%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.31	No		6	470.00	6	505.46	35.46	7.54%
273159082373101	SNEAD'S ISLAND	229	0	0.26	No		6	236.50	6	233.00	-3.50	-1.48%
275724082221001	SWFWMD WELL AT S-160	325	0	0.02	Yes	Increasing	3	116.00	7	120.00	4.00	3.45%
270705082250101	VENICE 2E	1240	0	0.90	No		3	277.00	6	281.50	4.50	1.62%

Table 29. Chloride Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
275008082442901	BUTLER S C B S15 #1	11868	0	0.19	No		4	1145.00	5	539.00	-606.00	-52.93%
273818081501001	CARGILL FA-1	758	0	0.12	No		3	11.20	7	9.72	-1.48	-13.21%
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.98	No		6	37.30	7	37.10	-0.20	-0.54%
274440081314801	COLEY WELL	605	0	0.88	No		3	11.00	7	11.00	0.00	0.00%
283111082375801	CSPR-6 FL JENKINS CREEK	13278	0	0.95	No		6	332.00	7	331.00	-1.00	-0.30%
270223081421101	DT BROWN G-36	11672	0	0.05	Yes	Increasing	4	352.50	7	372.16	19.66	5.58%
271832082064801	EDGEVILLE DEEP #3	142	0	0.38	No		3	17.10	7	16.50	-0.60	-3.51%
270540082001101	GDU WELL M-2	862	0	0.52	No		4	103.50	7	102.00	-1.50	-1.45%
270810081481201	GP WOOD PROD WELL #5	883	0	1.00	No		3	70.10	7	68.96	-1.14	-1.63%
272301082191401	KME 02 WELL	29	0	0.52	No		3	18.70	7	19.20	0.50	2.67%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.50	No		4	7.92	7	8.09	0.18	2.21%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.15	No		4	118.50	7	125.00	6.50	5.49%
272807082401501	MANATEE FRUIT #3	1105	0	0.01	Yes	Increasing	6	1990.00	7	2440.00	450.00	22.61%
275600081331502	MOUNTAIN LAKE CORP N FL	602	0	0.11	No		3	10.30	7	10.80	0.50	4.85%
274848081302201	MURRAY ROAD FL	10891	0	1.00	No		3	17.50	7	17.30	-0.20	-1.14%
273504082283801	N CO. TREAT. OLD SUP	11728	0	0.67	No		3	17.50	7	17.90	0.40	2.29%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.51	No		6	24.70	7	26.70	2.00	8.10%
272949082404001	PERICO ISLAND WELL	1106	0	0.45	No		6	504.00	7	563.00	59.00	11.71%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	0.00	Yes	Increasing	6	1705.00	7	1850.00	145.00	8.50%
274031082150401	ROMP 123 DEEP	87	0	0.31	No		4	13.15	7	13.40	0.25	1.90%
270417081370204	ROMP 13 SWNN	12872	0	0.14	No		6	94.95	7	96.50	1.55	1.63%
270856081211401	ROMP 14 SH FLORIDAN	12955	0	0.52	No		3	6.87	7	7.02	0.15	2.18%
271232081392201	ROMP 15 DEEP	10933	1	0.32	No		4	28.15	7	26.30	-1.85	-6.57%
271026081583602	ROMP 17 SWNN	11041	0	0.18	No		6	66.55	7	62.50	-4.05	-6.09%
271135082074801	ROMP 18 SUWANNEE	450	0	0.79	No		4	33.00	7	33.70	0.70	2.12%
271021082151601	ROMP 19 ELAM	10937	1	0.93	No		4	35.00	7	35.30	0.30	0.86%
271138082284604	ROMP 20 SWNN	11306	0	0.35	No		6	289.00	7	281.00	-8.00	-2.77%
271843082201703	ROMP 22 SWNN	11176	0	0.87	No		6	20.35	7	20.20	-0.15	-0.74%
272159082002503	ROMP 25 LILY SUWANNEE	17312	0	0.88	No		3	16.50	7	16.60	0.10	0.61%
272207081260404	ROMP 28 SUWANNEE	11876	0	0.27	No		3	8.27	7	8.57	0.30	3.63%
272728081474702	ROMP 30 TAMPA	354	0	0.97			3	30.30	7	30.30	0.00	0.00%
272814082034802	ROMP 32 SUWANNEE	506	0	0.63	No		3	17.30	7	16.30	-1.00	-5.78%
272728082152902	ROMP 33 SWNN	299	0	0.31	No		6	15.65	7	15.10	-0.55	-3.51%
273521082150502	ROMP 39 SWNN	11451	0	0.46	No		5	12.90	7	13.10	0.20	1.55%
274547081470902	ROMP 45 SUWANNEE	32	0	0.13	No		3	9.68	7	9.89	0.21	2.17%
274427082083701	ROMP 48 FLORIDAN	10910	0	1.00	No		4	13.15	7	13.20	0.05	0.38%
274546082151404	ROMP 49 SWN	10903	0	0.16	No		5	13.90	7	14.30	0.40	2.88%
265644081482904	ROMP 5 SWNN	12884	0	0.60	No		6	722.50	7	716.00	-6.50	-0.90%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.73	No		6	14.30	6	13.90	-0.40	-2.80%
275411081372001	ROMP 57-1 FLORIDAN	10881	0	0.02	Yes	Decreasing	3	21.40	7	20.00	-1.40	-6.54%
275326081585801	ROMP 60 DEEP	19	0	0.52	No		3	8.18	7	7.97	-0.21	-2.57%
270432082085701	ROMP 9 SWNN	12902	0	0.02	Yes	Decreasing	6	516.50	7	505.00	-11.50	-2.23%
270737082025201	ROMP 9.5 UP FL	17422	0	0.29	No		5	63.80	7	59.70	-4.10	-6.43%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.75	No		4	177.00	7	180.00	3.00	1.69%
265026081585404	ROMP TR 1-2 SWNN	11334	0	1.00	No		6	977.00	7	963.00	-14.00	-1.43%

Table 29. Chloride Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
281518082424301	ROMP TR 16-2	11006	0	0.18	No		6	115.00	7	106.00	-9.00	-7.83%
281518082424302	ROMP TR 16-2 SHALLOW TRIP	10764	2	0.25	No		6	1420.00	7	1401.32	-18.68	-1.32%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.01	Yes	Decreasing	6	425.50	7	406.00	-19.50	-4.58%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.53	No		6	8408.00	7	8710.00	302.00	3.59%
270327082262905	ROMP TR 4-1 SUWANNEE	17285	0	1.00	No		6	3270.00	7	3270.00	0.00	0.00%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.98	No		6	283.50	7	285.00	1.50	0.53%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.09	No		6	100.40	7	95.50	-4.90	-4.88%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.53	No		4	52.00	7	43.90	-8.10	-15.58%
272510082345701	ROMP TR 7-1	287	0	0.41	No		4	80.45	7	78.10	-2.35	-2.92%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.29	No		6	41.75	7	43.00	1.25	2.99%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.17	No		6	124.50	8	129.00	4.50	3.61%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.01	Yes	Increasing	6	190.00	7	210.00	20.00	10.53%
274554082233804	ROMP TR 9-2 TAMPA	10901	0	0.48	No		3	21.80	7	22.10	0.30	1.38%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.47	No		6	479.50	7	502.00	22.50	4.69%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.01	Yes	Decreasing	6	847.00	7	785.00	-62.00	-7.32%
271938082251801	SARASOTA #9 DEEP	561	0	0.95	No		3	23.60	7	24.15	0.55	2.33%
273159082373101	SNEAD'S ISLAND	229	0	0.81	No		6	229.00	7	232.00	3.00	1.31%
280115081352002	SWANN RD FL	10846	0	0.02	Yes	Increasing	3	13.11	7	14.75	1.64	12.51%
275724082221001	SWFWMD WELL AT S-160	325	0	0.47	No		6	121.00	8	120.43	-0.57	-0.47%
271743081374601	TROPICAL RIVER GROVE	511	0	0.27	No		3	49.30	7	47.60	-1.70	-3.45%
275627082150801	TURNER WELL	329	0	0.27	No		3	13.00	7	13.80	0.80	6.15%
270705082250101	VENICE 2E	1240	0	0.23	No		6	272.50	7	283.00	10.50	3.85%

Table 30. Chloride Trend in the Tampa/Suwannee Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
281238082425601	ANCLOTE ELEMENTARY	10796	0	0.50	No		6	12.50	5	12.60	0.10	0.80%
275138082450301	BARDMOOR DEEP WELL	1212	0	0.57	No		5	437.00	3	531.00	94.00	21.51%
284130082353501	BETTY JAY SPRING WELL	909	0	0.63	No		6	20.00	5	20.10	0.10	0.50%
275008082442901	BUTLER S C B S15 #1	11868	0	0.25	No		7	658.00	9	1080.00	422.00	64.13%
282228082402001	CITY OF HUDSON	1185	0	0.09	No		6	97.00	6	114.50	17.50	18.04%
272120082322701	CITY OF SARASOTA 21ST RR	197	0	0.00	Yes	Increasing	9	242.00	6	386.67	144.67	59.78%
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.00	Yes	Decreasing	9	43.00	15	38.20	-4.80	-11.16%
280111082453501	CLEARWATER 15 (DUNEDIN 6)	1209	0	0.18	No		6	148.00	4	161.50	13.50	9.12%
280022082424901	CLEARWATER WELL 67	297	0	0.26	No		6	221.50	4	33.95	-187.55	-84.67%
281642082440201	COASTAL PASCO #4	1194	0	0.93	No		6	15760.00	5	15714.00	-46.00	-0.29%
280449082412702	EAST LAKE WOODLANDS FL	10822	0	0.90	No		6	437.00	5	448.00	11.00	2.52%
273718082315501	FL POWER & LIGHT WEL	653	0	0.61	No		6	450.50	6	461.29	10.79	2.40%
271619082240201	FLORIDA CITIES TEST	623	0	0.64	No		7	45.00	5	43.50	-1.50	-3.33%
270540082001101	GDU WELL M-2	862	0	0.59	No		6	104.50	11	102.00	-2.50	-2.39%
282418082393702	GRACE MEMORIAL #2	1190	0	0.02	Yes	Increasing	6	11.20	5	12.40	1.20	10.71%
281440082423301	GULF MIDDLE HIGH	10763	0	0.50	No		6	46.50	5	50.80	4.30	9.25%
280058082252001	HILLS CO ASR SMW-1	1091	0	0.22	No		5	185.00	5	165.00	-20.00	-10.81%
275443082224001	JAMES BYRD NR RIVERVIEW	961	0	0.01	Yes	Decreasing	6	125.50	6	116.00	-9.50	-7.57%
274837082232901	KUSHMER WL AT ADAMSVILLE	429	0	0.02	Yes	Increasing	5	153.00	6	188.29	35.29	23.07%
275955082335801	LIBRARY DP WL ON PAULA	993	0	0.02	Yes	Increasing	6	361.50	5	389.00	27.50	7.61%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.04	Yes	Increasing	3	7.50	11	8.08	0.58	7.73%
271242082171701	MACARTHUR TRACT 10H	1269	0	0.09	No		6	25.95	6	24.50	-1.46	-5.61%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.05	No		6	114.50	11	123.90	9.40	8.21%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	15	823.00	15	2077.00	1254.00	152.37%
272738082384701	MANATEE FRUIT-MIDWAY	1110	0	0.01	Yes	Increasing	6	199.50	4	238.16	38.66	19.38%
275458082310301	MARTIN MURPHEY	970	0	0.06	No		6	76.00	6	77.55	1.55	2.04%
281223082442301	METHODIST CHURCH	1195	0	0.50	No		6	31.50	5	30.40	-1.10	-3.49%
274904082423601	MILLER WELL- KENNETH CITY	1217	0	0.65	No		6	124.00	5	132.00	8.00	6.45%
272735082083401	MYAKKA HEAD #5 USGS	1109	0	0.39	No		6	13.00	5	12.56	-0.44	-3.38%
274935082370207	NORTHEAST INJECTION B-11	1356	0	0.00	Yes	Increasing	6	9449.00	5	11340.00	1891.00	20.01%
280208082401101	NWHWRAP 18-F	10838	0	0.24	No		5	569.00	5	558.00	-11.00	-1.93%
280033082284901	NWHWRAP-2	10856	0	0.12	No		6	31.00	8	35.79	4.79	15.45%
281142082424001	NWHWRAP-3	10771	0	0.05	No		7	20.00	8	33.25	13.25	66.25%
275130082194501	OAKRIDGE #46 - RIVERCREST	643	0	0.01	Yes	Increasing	6	26.00	6	28.81	2.81	10.79%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.43	No		14	25.00	15	25.10	0.10	0.40%
272949082404001	PERICO ISLAND WELL	1106	0	0.11	No		6	443.50	15	563.00	119.50	26.94%
270406082220102	PLANTATION SUWANNEE	1265	0	0.70	No		6	1223.00	6	1230.15	7.15	0.58%
281652082423301	PORT RICHEY CITY DP	1179	0	0.00	Yes	Increasing	6	98.50	5	201.00	102.50	104.06%
283203082370201	PRESBYTERIAN YOUTH CAMP	16	0	0.00	Yes	Increasing	7	1356.00	15	1720.00	364.00	26.84%
274031082150401	ROMP 123 DEEP	87	0	0.51	No		6	13.00	11	13.40	0.40	3.08%
270417081370204	ROMP 13 SWNN	12872	0	0.00	Yes	Decreasing	5	104.00	15	95.30	-8.70	-8.37%
271232081392201	ROMP 15 DEEP	10933	1	0.01	Yes	Decreasing	6	32.80	11	28.20	-4.60	-14.02%
271026081583602	ROMP 17 SWNN	11041	0	0.06	No		15	66.00	15	64.90	-1.10	-1.67%
271135082074801	ROMP 18 SUWANNEE	450	0	0.32	No		15	34.00	12	33.45	-0.55	-1.62%
271021082151601	ROMP 19 ELAM	10937	1	0.37	No		6	34.50	12	35.45	0.95	2.75%

Table 30. Chloride Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
270959082203001	ROMP 19 WLAM	10938	1	0.39	No		8	28.75	7	28.20	-0.55	-1.91%
271138082284604	ROMP 20 SWNN	11306	0	0.00	Yes	Decreasing	15	335.00	15	288.00	-47.00	-14.03%
271843082201703	ROMP 22 SWNN	11176	0	0.86	No		15	21.00	15	20.60	-0.40	-1.90%
272728082152902	ROMP 33 SWNN	299	0	0.03	Yes	Decreasing	16	16.00	15	15.30	-0.70	-4.38%
273521082150502	ROMP 39 SWNN	11451	0	0.19	No		14	13.95	13	13.00	-0.95	-6.81%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.64	No		6	13.00	11	13.20	0.20	1.54%
274546082151404	ROMP 49 SWN	10903	0	0.33	No		15	14.00	14	14.00	0.00	0.00%
265644081482904	ROMP 5 SWNN	12884	0	0.95	No		5	717.00	15	720.51	3.51	0.49%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.91	No		15	14.00	14	14.30	0.30	2.14%
270432082085701	ROMP 9 SWNN	12902	0	1.00	No		7	501.00	15	508.00	7.00	1.40%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.61	No		6	179.00	11	180.00	1.00	0.56%
275705082222001	ROMP TR 11-2	10870	0	0.19	No		5	207.00	6	213.76	6.76	3.26%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.01	Yes	Decreasing	15	1000.00	15	978.00	-22.00	-2.20%
275820082324602	ROMP TR 12-1 DP (NEW)	12950	0	0.11	No		6	503.00	5	547.00	44.00	8.75%
280005082324201	ROMP TR 12-3 (NEW)	10854	0	0.00	Yes	Decreasing	6	71.50	5	61.80	-9.70	-13.57%
275458082464002	ROMP TR 13-1 SUWANNEE	10875	0	0.00	Yes	Increasing	6	406.50	5	515.00	108.50	26.69%
275430082431402	ROMP TR 13-2X SUWANNEE	10877	0	0.00	Yes	Increasing	6	3204.00	6	3520.00	316.00	9.86%
280132082452802	ROMP TR 14-2 TAMPA	10843	1	0.03	Yes	Decreasing	6	1378.50	5	1038.00	-340.50	-24.70%
280118082435002	ROMP TR 14-3 SWNN	10845	1	0.00	Yes	Increasing	6	46.00	5	179.00	133.00	289.13%
280753082465201	ROMP TR 15-1 TAMPA	345	0	0.33	No		6	678.00	5	599.00	-79.00	-11.65%
280747082452001	ROMP TR 15-2 TAMPA	398	0	0.93	No		6	331.50	5	285.00	-46.50	-14.03%
280734082442101	ROMP TR 15-3 SWNN	10783	0	0.00	Yes	Decreasing	6	250.00	5	153.00	-97.00	-38.80%
281518082424301	ROMP TR 16-2	11006	0	0.43	No		6	103.00	14	109.94	6.94	6.74%
281917082420901	ROMP TR 17-1 DEEP	746	0	0.18	No		6	907.50	5	837.00	-70.50	-7.77%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.02	Yes	Decreasing	15	439.00	15	422.00	-17.00	-3.87%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.66	No		15	8420.00	15	8480.00	60.00	0.71%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.80	No		7	282.00	15	285.00	3.00	1.06%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.00	Yes	Increasing	15	87.00	15	96.20	9.20	10.57%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.68	No		6	42.90	11	42.85	-0.05	-0.12%
272510082345701	ROMP TR 7-1	287	0	0.00	Yes	Decreasing	9	96.00	11	79.70	-16.30	-16.98%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.00	Yes	Decreasing	9	270.00	6	94.28	-175.73	-65.08%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.00	Yes	Increasing	15	40.00	15	42.00	2.00	5.00%
272539082292003	ROMP TR 7-4 TAMPA	411	0	0.24	No		6	29.00	5	26.50	-2.50	-8.62%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.06	No		15	132.00	16	127.57	-4.44	-3.36%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.00	Yes	Increasing	15	171.00	15	190.00	19.00	11.11%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.41	No		17	474.00	15	481.00	7.00	1.48%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.00	Yes	Decreasing	7	919.00	15	832.70	-86.30	-9.39%
280923082433602	SALT BAYOU FL-JOHNSON	10777	0	0.05	No		6	894.00	5	981.00	87.00	9.73%
272316082302601	SARASOTA CO TEST WELL #1	342	0	0.01	Yes	Increasing	6	70.50	6	84.95	14.45	20.50%
275611082211701	SEABOARD UTIL #8	971	0	0.11	No		5	87.00	4	73.65	-13.35	-15.34%
273159082373101	SNEAD'S ISLAND	229	0	0.94	No		15	232.00	15	232.00	0.00	0.00%
274912082441001	SOUTH CROSS BAYOU W S9	1211	0	0.02	Yes	Decreasing	4	45.00	5	22.70	-22.30	-49.56%
275724082221001	SWFWMD WELL AT S-160	325	0	0.03	Yes	Increasing	6	117.00	16	120.00	3.00	2.56%
281128082445501	TAHITIAN DEEP WELL	1352	0	0.79	No		6	144.50	5	37.40	-107.10	-74.12%
280246082383601	TAMPA BAY DOWNS WRAP-57F	10832	0	0.00	Yes	Decreasing	6	508.50	6	484.29	-24.22	-4.76%

Table 30. Chloride Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
275316082285901	TAMPA YACHT & STABLES	1095	0	0.17	No		6	98.50	6	102.33	3.83	3.88%
280055082222701	TBC - 09	169	0	0.69	No		6	24.00	5	24.20	0.20	0.83%
280112082270101	TOURIST CLUB WL AT SUL SP	520	0	0.11	No		6	4614.50	4	5177.66	563.16	12.20%
270705082250101	VENICE 2E	1240	0	0.99	No		8	273.50	15	278.00	4.50	1.65%
274928082225501	WELL 220 AT ADAMSVILLE	985	0	0.02	Yes	Increasing	5	187.00	6	201.07	14.07	7.52%
282553082395301	WHITING WELL DEEP	1192	0	0.31	No		5	462.00	5	471.00	9.00	1.95%
282553082395302	WHITING WELL SHALLOW	1354	0	0.89	No		6	79.50	5	78.70	-0.80	-1.01%

Table 31. Sulfate Trend in the Tampa/Suwannee Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.05	Yes	Decreasing	3	416.00	6	402.00	-14.00	-3.37%
270540082001101	GDU WELL M-2	862	0	0.10	No		3	344.00	6	311.14	-32.86	-9.55%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.85	No		3	476.00	6	486.00	10.00	2.10%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	6	583.50	6	731.50	148.00	25.36%
280033082284901	NWHWRAP-2	10856	0	0.57	No		3	31.00	5	23.17	-7.83	-25.26%
281142082424001	NWHWRAP-3	10771	0	0.52	No		3	3.60	5	1.59	-2.01	-55.83%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.35	No		5	746.00	6	736.50	-9.50	-1.27%
272949082404001	PERICO ISLAND WELL	1106	0	0.38	No		3	430.00	6	533.50	103.50	24.07%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	1.00	No		3	118.00	6	114.50	-3.50	-2.97%
274031082150401	ROMP 123 DEEP	87	0	0.55	No		3	16.00	6	17.05	1.05	6.53%
271232081392201	ROMP 15 DEEP	10933	1	0.02	Yes	Increasing	3	339.00	6	392.50	53.50	15.78%
271026081583602	ROMP 17 SWNN	11041	0	0.05	Yes	Decreasing	6	376.00	6	361.00	-15.00	-3.99%
271135082074801	ROMP 18 SUWANNEE	450	0	0.36	No		6	216.50	6	217.80	1.30	0.60%
271021082151601	ROMP 19 ELAM	10937	1	0.02	Yes	Decreasing	3	531.00	6	511.86	-19.14	-3.60%
271138082284604	ROMP 20 SWNN	11306	0	0.09	No		6	1719.50	6	1663.49	-56.02	-3.26%
271843082201703	ROMP 22 SWNN	11176	0	0.85	No		6	364.50	6	364.00	-0.50	-0.14%
272728082152902	ROMP 33 SWNN	299	0	0.42	No		6	78.00	6	71.95	-6.05	-7.76%
273521082150502	ROMP 39 SWNN	11451	0	0.68	No		5	126.00	6	127.00	1.00	0.79%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.24	No		3	45.00	6	43.10	-1.90	-4.22%
274546082151404	ROMP 49 SWN	10903	0	0.79	No		6	55.50	6	55.80	0.30	0.54%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.00	Yes	Increasing	6	157.00	5	195.00	38.00	24.20%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.71	No		3	31.00	6	32.05	1.05	3.39%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.06	No		6	263.00	6	257.50	-5.50	-2.09%
281518082424301	ROMP TR 16-2	11006	0	0.02	Yes	Decreasing	3	39.00	6	34.95	-4.05	-10.38%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.94	No		6	458.00	6	456.50	-1.50	-0.33%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.18	No		6	1089.00	6	1123.13	34.13	3.13%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.90	No		3	772.00	6	779.50	7.50	0.97%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.24	No		6	1430.00	6	1526.40	96.40	6.74%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.90	No		3	1687.00	6	1651.64	-35.37	-2.10%
272510082345701	ROMP TR 7-1	287	0	0.06	No		6	356.50	6	347.50	-9.00	-2.52%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.02	Yes	Decreasing	6	516.50	3	401.35	-115.15	-22.29%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.33	No		6	340.00	6	343.50	3.50	1.03%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.81	No		6	473.00	7	474.00	1.00	0.21%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.94	No		6	375.00	6	376.50	1.50	0.40%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.02	Yes	Decreasing	6	937.00	6	859.50	-77.50	-8.27%
273159082373101	SNEAD'S ISLAND	229	0	0.90	No		6	658.50	6	652.50	-6.00	-0.91%
275724082221001	SWFWMD WELL AT S-160	325	0	0.67	No		3	85.00	7	86.40	1.40	1.65%
270705082250101	VENICE 2E	1240	0	0.71	No		3	1616.00	6	1615.00	-1.00	-0.06%

Table 32. Sulfate Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
275008082442901	BUTLER S C B S15 #1	11868	0	0.67	No		4	55.60	5	0.40	-55.20	-99.28%
273818081501001	CARGILL FA-1	758	0	0.02	Yes	Decreasing	3	351.00	7	326.00	-25.00	-7.12%
274114082303701	CLAPROD WL NR RUSKIN	501	0	1.00	No		6	385.00	7	400.00	15.00	3.90%
274440081314801	COLEY WELL	605	0	1.00	No		3	18.20	7	18.40	0.20	1.10%
283111082375801	CSPR-6 FL JENKINS CREEK	13278	0	0.91	No		6	12.55	7	11.40	-1.15	-9.16%
270223081421101	DT BROWN G-36	11672	0	0.34	No		4	189.00	7	193.00	4.00	2.12%
271832082064801	EDGEVILLE DEEP #3	142	0	0.23	No		3	219.00	7	223.00	4.00	1.83%
270540082001101	GDU WELL M-2	862	0	0.56	No		4	307.50	7	316.00	8.50	2.76%
270810081481201	GP WOOD PROD WELL #5	883	0	0.02	Yes	Decreasing	3	240.00	7	222.00	-18.00	-7.50%
272301082191401	KME 02 WELL	29	0	0.37	No		3	423.00	7	430.00	7.00	1.65%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.23	No		4	0.40	7	0.20	-0.20	-49.37%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.65	No		4	479.00	7	486.00	7.00	1.46%
272807082401501	MANATEE FRUIT #3	1105	0	0.73	No		6	710.50	7	731.00	20.50	2.89%
275600081331502	MOUNTAIN LAKE CORP N FL	602	0	0.02	Yes	Increasing	3	18.80	7	19.30	0.50	2.66%
274848081302201	MURRAY ROAD FL	10891	0	1.00	No		3	23.50	7	23.30	-0.20	-0.85%
273504082283801	N CO. TREAT. OLD SUP	11728	0	0.67	No		3	202.00	7	204.00	2.00	0.99%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.31	No		6	744.50	7	735.00	-9.50	-1.28%
272949082404001	PERICO ISLAND WELL	1106	0	0.45	No		6	471.50	7	530.00	58.50	12.41%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	0.00	Yes	Increasing	6	104.00	7	117.00	13.00	12.50%
274031082150401	ROMP 123 DEEP	87	0	0.04	Yes	Increasing	4	15.70	7	17.00	1.30	8.28%
270417081370204	ROMP 13 SWNN	12872	0	0.63	No		6	72.35	7	73.10	0.75	1.04%
270856081211401	ROMP 14 SH FLORIDAN	12955	0	0.16	No		3	10.60	7	10.70	0.10	0.94%
271232081392201	ROMP 15 DEEP	10933	1	0.56	No		4	394.00	7	391.00	-3.00	-0.76%
271026081583602	ROMP 17 SWNN	11041	0	0.87	No		6	362.50	7	362.00	-0.50	-0.14%
271135082074801	ROMP 18 SUWANNEE	450	0	0.25	No		4	224.00	7	219.00	-5.00	-2.23%
271021082151601	ROMP 19 ELAM	10937	1	0.07	No		4	525.00	7	513.00	-12.00	-2.29%
271138082284604	ROMP 20 SWNN	11306	0	0.95	No		6	1656.00	7	1660.00	4.00	0.24%
271843082201703	ROMP 22 SWNN	11176	0	0.31	No		6	367.50	7	367.00	-0.50	-0.14%
272159082002503	ROMP 25 LILY SUWANNEE	17312	0	0.42	No		3	514.00	7	520.00	6.00	1.17%
272207081260404	ROMP 28 SUWANNEE	11876	0	0.02	Yes	Increasing	3	32.20	7	33.60	1.40	4.35%
272728081474702	ROMP 30 TAMPA	354	0	1.00	No		3	134.00	7	134.00	0.00	0.00%
272814082034802	ROMP 32 SUWANNEE	506	0	0.52	No		3	70.30	7	72.40	2.10	2.99%
272728082152902	ROMP 33 SWNN	299	0	0.45	No		6	66.05	7	69.60	3.55	5.37%
273521082150502	ROMP 39 SWNN	11451	0	0.21	No		5	129.00	7	127.00	-2.00	-1.55%
274547081470902	ROMP 45 SUWANNEE	32	0	0.42	No		3	28.20	7	29.98	1.78	6.31%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.43	No		4	43.35	7	43.10	-0.25	-0.58%
274546082151404	ROMP 49 SWN	10903	0	0.84	No		5	56.20	7	55.20	-1.00	-1.78%
265644081482904	ROMP 5 SWNN	12884	0	0.81	No		6	215.00	7	218.27	3.27	1.52%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.03	Yes	Increasing	6	185.50	6	196.50	11.00	5.93%
275411081372001	ROMP 57-1 FLORIDAN	10881	0	0.11	No		3	6.36	7	6.11	-0.25	-3.93%
275326081585801	ROMP 60 DEEP	19	0	0.12	No		3	1.43	7	0.73	-0.70	-48.95%
270432082085701	ROMP 9 SWNN	12902	0	0.09	No		6	348.50	7	340.16	-8.34	-2.39%
270737082025201	ROMP 9.5 UP FL	17422	0	0.96	No		5	404.00	7	396.94	-7.06	-1.75%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.65	No		4	31.35	7	32.00	0.65	2.07%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.98	No		6	255.50	7	257.00	1.50	0.59%

Table 32. Sulfate Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
281518082424301	ROMP TR 16-2	11006	0	0.08	No		6	37.85	7	33.90	-3.95	-10.44%
281518082424302	ROMP TR 16-2 SHALLOW TRIP	10764	2	0.91	No		6	226.50	7	222.21	-4.29	-1.89%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.70	No		6	466.00	7	458.00	-8.00	-1.72%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.31	No		6	1100.00	7	1130.00	30.00	2.73%
270327082262905	ROMP TR 4-1 SUWANNEE	17285	0	0.37	No		6	631.00	7	612.00	-19.00	-3.01%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.80	No		6	773.50	7	779.00	5.50	0.71%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.87	No		6	1515.00	7	1520.00	5.00	0.33%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.82	No		4	1659.00	7	1660.00	1.00	0.06%
272510082345701	ROMP TR 7-1	287	0	0.53	No		4	343.50	7	348.00	4.50	1.31%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.10	No		6	335.50	7	344.00	8.50	2.53%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.59	No		6	467.50	8	474.00	6.50	1.39%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.92	No		6	375.50	7	375.00	-0.50	-0.13%
274554082233804	ROMP TR 9-2 TAMPA	10901	0	0.56	No		3	149.00	7	148.15	-0.85	-0.57%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.73	No		6	857.50	7	852.00	-5.50	-0.64%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.01	Yes	Decreasing	6	1080.00	7	1030.00	-50.00	-4.63%
271938082251801	SARASOTA #9 DEEP	561	0	0.67	No		3	746.00	7	749.00	3.00	0.40%
273159082373101	SNEAD'S ISLAND	229	0	1.00	No		6	652.00	7	655.00	3.00	0.46%
280115081352002	SWANN RD FL	10846	0	0.80	No		3	2.50	7	2.42	-0.08	-3.20%
275724082221001	SWFWMD WELL AT S-160	325	0	0.85	No		6	86.10	8	84.85	-1.25	-1.45%
271743081374601	TROPICAL RIVER GROVE	511	0	0.48	No		3	239.00	7	242.00	3.00	1.26%
275627082150801	TURNER WELL	329	0	0.18	No		3	7.92	7	8.34	0.42	5.30%
270705082250101	VENICE 2E	1240	0	0.31	No		6	1640.00	7	1620.00	-20.00	-1.22%

Table 33. Sulfate Trend in the Tampa/Suwannee Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
281238082425601	ANCLOTE ELEMENTARY	10796	0	0.01	Yes	Decreasing	6	46.00	5	37.20	-8.80	-19.13%
275138082450301	BARDMOOR DEEP WELL	1212	0	0.14	No		5	54.00	3	57.70	3.70	6.85%
284130082353501	BETTY JAY SPRING WELL	909	0	0.51	No		6	6.90	5	7.67	0.77	11.16%
275008082442901	BUTLER S C B S15 #1	11868	0	0.66	No		7	38.00	9	44.80	6.80	17.89%
282228082402001	CITY OF HUDSON	1185	0	0.07	No		6	20.50	6	22.50	2.00	9.76%
272120082322701	CITY OF SARASOTA 21ST RR	197	0	0.03	Yes	Increasing	9	820.00	6	860.62	40.62	4.95%
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.00	Yes	Decreasing	9	414.00	15	400.00	-14.00	-3.38%
280111082453501	CLEARWATER 15 (DUNEDIN 6)	1209	0	0.66	No		6	35.65	4	35.70	0.05	0.14%
280022082424901	CLEARWATER WELL 67	297	0	0.07	No		6	20.00	4	15.85	-4.15	-20.75%
281642082440201	COASTAL PASCO #4	1194	0	0.66	No		6	2127.50	5	2110.00	-17.50	-0.82%
280449082412702	EAST LAKE WOODLANDS FL	10822	0	0.65	No		6	98.50	4	97.73	-0.78	-0.79%
273718082315501	FL POWER & LIGHT WEL	653	0	0.37	No		6	532.00	6	521.11	-10.89	-2.05%
271619082240201	FLORIDA CITIES TEST	623	0	0.05	Yes	Increasing	7	531.00	5	561.00	30.00	5.65%
270540082001101	GDU WELL M-2	862	0	0.64	No		6	310.50	11	306.28	-4.22	-1.36%
282418082393702	GRACE MEMORIAL #2	1190	0	0.03	Yes	Decreasing	6	9.84	5	8.84	-1.00	-10.16%
281440082423301	GULF MIDDLE HIGH	10763	0	0.03	Yes	Increasing	6	17.50	5	24.90	7.40	42.29%
280058082252001	HILLS CO ASR SMW-1	1091	0	0.95	No		5	55.00	5	53.00	-2.00	-3.64%
275443082224001	JAMES BYRD NR RIVERVIEW	961	0	0.01	Yes	Increasing	6	26.50	6	31.10	4.60	17.34%
274837082232901	KUSHMER WL AT ADAMSVILLE	429	0	0.27	No		5	530.00	6	544.01	14.01	2.64%
275955082335801	LIBRARY DP WL ON PAULA	993	0	0.17	No		6	51.05	5	54.40	3.35	6.56%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.23	No		3	0.05	11	0.20	0.15	284.62%
271242082171701	MACARTHUR TRACT 10H	1269	0	0.94	No		6	356.00	6	359.00	3.00	0.84%
270807082152701	MACARTHUR TRACT 14FS	1262	0	1.00	No		6	481.00	11	486.00	5.00	1.04%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	15	592.00	15	721.00	129.00	21.79%
272738082384701	MANATEE FRUIT-MIDWAY	1110	0	0.65	No		6	194.50	4	204.89	10.39	5.34%
275458082310301	MARTIN MURPHEY	970	0	0.12	No		6	10.30	6	10.90	0.60	5.83%
281223082442301	METHODIST CHURCH	1195	0	0.75	No		6	21.50	5	21.90	0.40	1.86%
274904082423601	MILLER WELL- KENNETH CITY	1217	0	0.25	No		6	0.80	5	1.37	0.57	71.25%
272735082083401	MYAKKA HEAD #5 USGS	1109	0	0.84	No		6	97.00	5	96.85	-0.15	-0.15%
274935082370207	NORTHEAST INJECTION B-11	1356	0	0.00	Yes	Increasing	6	1066.50	5	1310.00	243.50	22.83%
280208082401101	NWHWRAP 18-F	10838	0	0.22	No		5	41.00	5	43.00	2.00	4.88%
280033082284901	NWHWRAP-2	10856	0	0.22	No		6	27.50	8	20.60	-6.90	-25.09%
281142082424001	NWHWRAP-3	10771	0	0.27	No		6	2.41	8	1.45	-0.96	-39.71%
275130082194501	OAKRIDGE #46 - RIVERCREST	643	0	0.09	No		6	45.00	6	40.54	-4.46	-9.91%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.20	No		14	733.50	15	741.00	7.50	1.02%
272949082404001	PERICO ISLAND WELL	1106	0	0.07	No		6	403.50	15	530.00	126.50	31.35%
270406082220102	PLANTATION SUWANNEE	1265	0	0.70	No		6	1705.00	6	1652.47	-52.53	-3.08%
281652082423301	PORT RICHEY CITY DP	1179	0	0.00	Yes	Increasing	6	16.50	5	19.80	3.30	20.00%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	0.29	No		7	118.00	15	107.00	-11.00	-9.32%
274031082150401	ROMP 123 DEEP	87	0	0.75	No		6	16.85	11	16.90	0.05	0.30%
270417081370204	ROMP 13 SWNN	12872	0	0.01	Yes	Decreasing	5	77.20	15	72.50	-4.70	-6.09%
271232081392201	ROMP 15 DEEP	10933	1	0.00	Yes	Increasing	6	336.50	11	393.00	56.50	16.79%
271026081583602	ROMP 17 SWNN	11041	0	0.12	No		15	368.00	15	361.00	-7.00	-1.90%
271135082074801	ROMP 18 SUWANNEE	450	0	0.66	No		15	218.00	12	218.30	0.30	0.14%
271021082151601	ROMP 19 ELAM	10937	1	0.87	No		6	513.00	12	515.50	2.50	0.49%

Table 33. Sulfate Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
270959082203001	ROMP 19 WLAM	10938	1	0.93	No		8	795.50	7	807.49	11.99	1.51%
271138082284604	ROMP 20 SWNN	11306	0	0.74	No		15	1665.00	15	1666.00	1.00	0.06%
271843082201703	ROMP 22 SWNN	11176	0	0.96	No		15	364.00	15	367.00	3.00	0.82%
272728082152902	ROMP 33 SWNN	299	0	0.49	No		16	67.50	15	73.80	6.30	9.33%
273521082150502	ROMP 39 SWNN	11451	0	0.21	No		14	126.00	13	127.00	1.00	0.79%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.10	No		6	44.00	11	43.10	-0.90	-2.05%
274546082151404	ROMP 49 SWN	10903	0	0.37	No		15	56.00	14	55.70	-0.30	-0.54%
265644081482904	ROMP 5 SWNN	12884	0	0.99	No		5	218.00	15	217.00	-1.00	-0.46%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.00	Yes	Increasing	15	169.00	14	193.50	24.50	14.50%
270432082085701	ROMP 9 SWNN	12902	0	0.00	Yes	Decreasing	7	359.00	15	342.00	-17.00	-4.74%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.86	No		6	31.70	11	31.50	-0.20	-0.63%
275705082222001	ROMP TR 11-2	10870	0	0.31	No		5	133.00	6	131.15	-1.86	-1.39%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.20	No		15	260.00	15	257.00	-3.00	-1.15%
275820082324602	ROMP TR 12-1 DP (NEW)	12950	0	0.03	Yes	Increasing	6	50.95	5	54.20	3.25	6.38%
280005082324201	ROMP TR 12-3 (NEW)	10854	0	0.18	No		6	8.00	5	6.98	-1.02	-12.75%
275458082464002	ROMP TR 13-1 SUWANNEE	10875	0	0.25	No		6	23.80	5	19.24	-4.56	-19.16%
275430082431402	ROMP TR 13-2X SUWANNEE	10877	0	0.70	No		6	49.50	6	49.94	0.44	0.89%
280132082452802	ROMP TR 14-2 TAMPA	10843	1	0.01	Yes	Decreasing	6	163.00	5	133.00	-30.00	-18.40%
280118082435002	ROMP TR 14-3 SWNN	10845	1	0.79	No		6	1.13	5	1.58	0.46	40.44%
280753082465201	ROMP TR 15-1 TAMPA	345	0	0.07	No		6	23.25	4	14.98	-8.28	-35.59%
280747082452001	ROMP TR 15-2 TAMPA	398	0	0.79	No		6	53.00	5	52.80	-0.20	-0.38%
280734082442101	ROMP TR 15-3 SWNN	10783	0	0.00	Yes	Decreasing	6	27.50	5	15.30	-12.20	-44.36%
281518082424301	ROMP TR 16-2	11006	0	0.00	Yes	Decreasing	6	39.00	14	36.00	-3.00	-7.69%
281917082420901	ROMP TR 17-1 DEEP	746	0	0.66	No		6	108.50	5	103.10	-5.40	-4.98%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.21	No		15	458.00	15	461.00	3.00	0.66%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.25	No		15	1090.00	15	1110.00	20.00	1.83%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.82	No		7	768.00	15	775.00	7.00	0.91%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.52	No		15	1488.00	15	1510.00	22.00	1.48%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.57	No		6	1655.50	11	1660.00	4.50	0.27%
272510082345701	ROMP TR 7-1	287	0	0.15	No		9	355.00	11	347.00	-8.00	-2.25%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.00	Yes	Decreasing	9	497.00	6	401.96	-95.05	-19.12%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.81	No		15	338.00	15	340.00	2.00	0.59%
272539082292003	ROMP TR 7-4 TAMPA	411	0	0.25	No		6	230.50	5	189.00	-41.50	-18.00%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.96	No		15	472.00	16	474.00	2.00	0.42%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.93	No		15	369.00	15	375.00	6.00	1.63%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.00	Yes	Decreasing	17	911.00	15	868.00	-43.00	-4.72%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.00	Yes	Decreasing	7	1104.00	15	1060.00	-44.00	-3.99%
280923082433602	SALT BAYOU FL-JOHNSON	10777	0	0.46	No		6	160.00	4	176.00	16.00	10.00%
272316082302601	SARASOTA CO TEST WELL #1	342	0	0.03	Yes	Increasing	6	491.00	6	515.50	24.50	4.99%
275611082211701	SEABOARD UTIL #8	971	0	0.17	No		5	49.00	4	44.55	-4.45	-9.08%
273159082373101	SNEAD'S ISLAND	229	0	0.15	No		15	652.00	15	656.00	4.00	0.61%
274912082441001	SOUTH CROSS BAYOU W S9	1211	0	0.90	No		4	0.38	5	0.12	-0.26	-68.09%
275724082221001	SWFWMD WELL AT S-160	325	0	0.80	No		6	85.90	16	86.45	0.55	0.64%
281128082445501	TAHITIAN DEEP WELL	1352	0	0.07	No		6	37.50	5	26.30	-11.20	-29.87%
280246082383601	TAMPA BAY DOWNS WRAP-57F	10832	0	0.06	No		6	95.00	6	91.65	-3.36	-3.53%

Table 33. Sulfate Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
275316082285901	TAMPA YACHT & STABLES	1095	0	0.16	No		6	8.35	6	4.44	-3.92	-46.89%
280055082222701	TBC - 09	169	0	0.05	Yes	Decreasing	6	65.50	5	53.30	-12.20	-18.63%
280112082270101	TOURIST CLUB WL AT SUL SP	520	0	0.07	No		6	947.00	4	1197.88	250.88	26.49%
270705082250101	VENICE 2E	1240	0	0.20	No		8	1635.00	15	1620.00	-15.00	-0.92%
274928082225501	WELL 220 AT ADAMSVILLE	985	0	0.57	No		5	707.00	6	711.82	4.82	0.68%
282553082395301	WHITING WELL DEEP	1192	0	0.02	Yes	Increasing	5	45.00	5	47.40	2.40	5.33%
282553082395302	WHITING WELL SHALLOW	1354	0	0.29	No		4	1.45	5	0.38	-1.07	-73.79%

Table 34. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.26	No		3	0.10	6	0.10	-0.01	-6.96%
270540082001101	GDU WELL M-2	862	0	0.17	No		3	0.30	6	0.33	0.03	9.69%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.02	Yes	Increasing	3	0.23	6	0.27	0.03	14.32%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	6	1.17	6	3.37	2.19	186.82%
280033082284901	NWHWRAP-2	10856	0	0.57	No		3	0.90	5	1.63	0.72	79.97%
281142082424001	NWHWRAP-3	10771	0	0.14	No		3	6.00	5	21.57	15.57	259.54%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.08	No		5	0.03	6	0.04	0.00	6.19%
272949082404001	PERICO ISLAND WELL	1106	0	0.90	No		3	1.08	6	1.06	-0.02	-1.65%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	0.02	Yes	Increasing	3	10.67	6	16.16	5.48	51.36%
274031082150401	ROMP 123 DEEP	87	0	0.90	No		3	0.81	6	0.79	-0.03	-3.20%
271232081392201	ROMP 15 DEEP	10933	1	0.02	Yes	Decreasing	3	0.09	6	0.07	-0.02	-25.27%
271026081583602	ROMP 17 SWNN	11041	0	0.78	No		6	0.18	6	0.18	0.00	-0.79%
271135082074801	ROMP 18 SUWANNEE	450	0	0.82	No		6	0.15	6	0.15	0.00	-2.15%
271021082151601	ROMP 19 ELAM	10937	1	0.38	No		3	0.06	6	0.07	0.01	11.48%
271138082284604	ROMP 20 SWNN	11306	0	0.00	Yes	Decreasing	6	0.28	6	0.17	-0.11	-39.16%
271843082201703	ROMP 22 SWNN	11176	0	0.48	No		6	0.06	6	0.06	0.00	-1.90%
272728082152902	ROMP 33 SWNN	299	0	0.59	No		6	0.20	6	0.20	0.00	1.06%
273521082150502	ROMP 39 SWNN	11451	0	0.79	No		5	0.11	6	0.10	-0.01	-6.61%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.55	No		3	0.29	6	0.31	0.02	5.61%
274546082151404	ROMP 49 SWN	10903	0	0.82	No		6	0.25	6	0.26	0.01	3.08%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.00	Yes	Decreasing	6	0.09	5	0.07	-0.02	-17.94%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.71	No		3	5.71	6	5.68	-0.03	-0.52%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.94	No		6	3.80	6	3.77	-0.03	-0.67%
281518082424301	ROMP TR 16-2	11006	0	0.10	No		3	2.62	6	3.16	0.54	20.66%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.01	Yes	Decreasing	6	0.95	6	0.89	-0.07	-6.85%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.59	No		6	7.81	6	7.37	-0.44	-5.63%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.71	No		3	0.37	6	0.37	0.00	0.05%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.24	No		6	0.06	6	0.06	0.01	13.80%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.71	No		3	0.02	6	0.03	0.00	4.82%
272510082345701	ROMP TR 7-1	287	0	0.00	Yes	Decreasing	6	0.28	6	0.22	-0.06	-21.18%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.02	Yes	Decreasing	6	0.53	3	0.22	-0.30	-57.54%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.18	No		6	0.12	6	0.13	0.01	6.54%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.01	Yes	Decreasing	6	0.29	7	0.27	-0.02	-7.20%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.00	Yes	Increasing	6	0.46	6	0.56	0.10	21.58%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.03	Yes	Increasing	6	0.50	6	0.59	0.09	17.45%
273159082373101	SNEAD'S ISLAND	229	0	0.13	No		6	0.36	6	0.35	-0.01	-2.94%
275724082221001	SWFWMD WELL AT S-160	325	0	0.18	No		3	1.33	7	1.39	0.06	4.48%
270705082250101	VENICE 2E	1240	0	0.55	No		3	0.17	6	0.18	0.01	3.33%

Table 35. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
273818081501001	CARGILL FA-1	758	0	0.67	No		3	0.03	7	0.03	0.00	-5.56%
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.53	No		6	0.09	7	0.09	0.00	1.61%
274440081314801	COLEY WELL	605	0	0.52	No		3	0.62	7	0.60	-0.02	-3.24%
283111082375801	CSPR-6 FL JENKINS CREEK	13278	0	0.84	No		6	27.00	7	26.49	-0.51	-1.88%
270223081421101	DT BROWN G-36	11672	0	0.41	No		4	1.86	7	1.91	0.05	2.44%
271832082064801	EDGEVILLE DEEP #3	142	0	0.38	No		3	0.08	7	0.08	0.00	-1.30%
270540082001101	GDU WELL M-2	862	0	0.32	No		4	0.34	7	0.32	-0.02	-5.06%
270810081481201	GP WOOD PROD WELL #5	883	0	0.02	Yes	Increasing	3	0.28	7	0.31	0.03	9.13%
272301082191401	KME 02 WELL	29	0	1.00	No		3	0.04	7	0.05	0.00	1.81%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.23	No		4	20.35	7	40.40	20.05	98.49%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.16	No		4	0.25	7	0.26	0.01	5.40%
272807082401501	MANATEE FRUIT #3	1105	0	0.05	No		6	2.65	7	3.38	0.73	27.59%
275600081331502	MOUNTAIN LAKE CORP N FL	602	0	0.27	No		3	0.56	7	0.55	-0.01	-1.93%
274848081302201	MURRAY ROAD FL	10891	0	0.52	No		3	0.74	7	0.75	0.01	0.99%
273504082283801	N CO. TREAT. OLD SUP	11728	0	0.52	No		3	0.09	7	0.09	0.00	2.63%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.45	No		6	0.03	7	0.04	0.00	9.34%
272949082404001	PERICO ISLAND WELL	1106	0	0.84	No		6	1.05	7	1.04	-0.01	-0.57%
283203082370201	PRESBYTERIAN YOUTH CAMP (	16	0	0.23	No		6	16.45	7	16.15	-0.29	-1.78%
274031082150401	ROMP 123 DEEP	87	0	0.23	No		4	0.85	7	0.79	-0.06	-7.11%
270417081370204	ROMP 13 SWNN	12872	0	0.73	No		6	1.31	7	1.32	0.01	0.70%
270856081211401	ROMP 14 SH FLORIDAN	12955	0	0.67	No		3	0.66	7	0.65	-0.01	-2.10%
271232081392201	ROMP 15 DEEP	10933	1	0.23	No		4	0.07	7	0.07	-0.01	-7.75%
271026081583602	ROMP 17 SWNN	11041	0	0.53	No		6	0.18	7	0.18	0.00	-2.43%
271135082074801	ROMP 18 SUWANNEE	450	0	0.53	No		4	0.15	7	0.16	0.01	5.50%
271021082151601	ROMP 19 ELAM	10937	1	0.65	No		4	0.07	7	0.07	0.00	4.49%
271138082284604	ROMP 20 SWNN	11306	0	0.45	No		6	0.17	7	0.17	0.00	-1.99%
271843082201703	ROMP 22 SWNN	11176	0	0.45	No		6	0.06	7	0.06	0.00	1.81%
272159082002503	ROMP 25 LILY SUWANNEE	17312	0	0.38	No		3	0.03	7	0.03	0.00	-5.30%
272207081260404	ROMP 28 SUWANNEE	11876	0	0.18	No		3	0.27	7	0.26	-0.02	-5.64%
272728081474702	ROMP 30 TAMPA	354	0	0.70	No		3	0.23	7	0.23	0.00	0.00%
272814082034802	ROMP 32 SUWANNEE	506	0	0.12	No		3	0.24	7	0.23	-0.01	-5.33%
272728082152902	ROMP 33 SWNN	299	0	0.18	No		6	0.23	7	0.20	-0.03	-12.09%
273521082150502	ROMP 39 SWNN	11451	0	0.27	No		5	0.10	7	0.11	0.00	3.94%
274547081470902	ROMP 45 SUWANNEE	32	0	0.52	No		3	0.34	7	0.33	-0.02	-4.35%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.65	No		4	0.30	7	0.30	0.00	1.06%
274546082151404	ROMP 49 SWN	10903	0	0.43	No		5	0.25	7	0.25	0.00	1.77%
265644081482904	ROMP 5 SWNN	12884	0	0.37	No		6	3.40	7	3.30	-0.10	-2.93%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.24	No		6	0.08	6	0.07	0.00	-3.82%
275411081372001	ROMP 57-1 FLORIDAN	10881	0	0.83	No		3	3.33	7	3.25	-0.08	-2.44%
275326081585801	ROMP 60 DEEP	19	0	0.12	No		3	5.72	7	11.20	5.48	95.74%
270432082085701	ROMP 9 SWNN	12902	0	0.73	No		6	1.49	7	1.50	0.01	0.90%
270737082025201	ROMP 9.5 UP FL	17422	0	0.43	No		5	0.16	7	0.15	-0.01	-4.69%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.41	No		4	5.76	7	5.61	-0.14	-2.50%
265026081585404	ROMP TR 1-2 SWNN	11334	0	1.00	No		6	3.75	7	3.83	0.08	2.02%
281518082424301	ROMP TR 16-2	11006	0	0.14	No		6	3.01	7	3.13	0.12	3.96%

Table 35. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
281518082424302	ROMP TR 16-2 SHALLOW TRIP	10764	2	0.84	No		6	6.36	7	6.31	-0.05	-0.83%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.07	No		6	0.91	7	0.89	-0.03	-2.96%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.63	No		6	7.52	7	7.35	-0.16	-2.17%
270327082262905	ROMP TR 4-1 SUWANNEE	17285	0	0.29	No		6	5.14	7	5.36	0.22	4.22%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	1.00	No		6	0.36	7	0.37	0.00	0.55%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.07	No		6	0.07	7	0.06	0.00	-5.10%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.41	No		4	0.03	7	0.03	-0.01	-16.88%
272510082345701	ROMP TR 7-1	287	0	0.53	No		4	0.23	7	0.22	-0.01	-4.08%
272539082292002	ROMP TR 7-4 SWNN	10926	0	1.00	No		6	0.12	7	0.13	0.00	0.64%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.35	No		6	0.26	8	0.27	0.01	2.86%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.00	Yes	Increasing	6	0.51	7	0.56	0.05	10.24%
274554082233804	ROMP TR 9-2 TAMPA	10901	0	0.52	No		3	0.14	7	0.15	0.01	4.66%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.63	No		6	0.56	7	0.58	0.02	3.10%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.10	No		6	0.79	7	0.77	-0.03	-3.37%
271938082251801	SARASOTA #9 DEEP	561	0	1.00	No		3	0.03	7	0.03	0.00	2.89%
273159082373101	SNEAD'S ISLAND	229	0	0.35	No		6	0.35	7	0.34	-0.01	-2.64%
280115081352002	SWANN RD FL	10846	0	0.27	No		3	5.20	7	6.09	0.89	17.20%
275724082221001	SWFWMD WELL AT S-160	325	0	0.85	No		6	1.40	8	1.40	0.00	0.13%
271743081374601	TROPICAL RIVER GROVE	511	0	0.18	No		3	0.21	7	0.20	-0.01	-5.43%
275627082150801	TURNER WELL	329	0	0.67	No		3	1.70	7	1.65	-0.05	-2.92%
270705082250101	VENICE 2E	1240	0	0.07	No		6	0.17	7	0.17	0.01	4.41%

Table 36. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
281238082425601	ANCLOTE ELEMENTARY	10796	0	0.25	No		6	0.27	5	0.29	0.02	5.97%
275138082450301	BARDMOOR DEEP WELL	1212	0	0.57	No		5	7.98	3	9.20	1.22	15.28%
284130082353501	BETTY JAY SPRING WELL	909	0	0.43	No		6	2.98	5	2.62	-0.36	-12.01%
275008082442901	BUTLER S C B S15 #1	11868	0	0.32	No		7	17.32	7	21.43	4.11	23.75%
282228082402001	CITY OF HUDSON	1185	0	0.82	No		6	4.84	6	4.85	0.01	0.19%
272120082322701	CITY OF SARASOTA 21ST RR	197	0	0.00	Yes	Increasing	9	0.30	6	0.44	0.14	47.77%
274114082303701	CLAPROD WL NR RUSKIN	501	0	0.01	Yes	Decreasing	9	0.10	15	0.10	-0.01	-5.77%
280111082453501	CLEARWATER 15 (DUNEDIN 6)	1209	0	0.61	No		6	4.30	4	4.41	0.11	2.45%
280022082424901	CLEARWATER WELL 67	297	0	0.35	No		6	10.72	4	2.14	-8.59	-80.05%
281642082440201	COASTAL PASCO #4	1194	0	0.66	No		6	7.34	5	7.47	0.13	1.71%
280449082412702	EAST LAKE WOODLANDS FL	10822	0	0.91	No		6	4.41	4	4.61	0.20	4.50%
273718082315501	FL POWER & LIGHT WEL	653	0	0.29	No		6	0.85	6	0.89	0.04	5.04%
271619082240201	FLORIDA CITIES TEST	623	0	0.34	No		7	0.08	5	0.08	-0.01	-7.32%
270540082001101	GDU WELL M-2	862	0	0.81	No		6	0.34	11	0.33	-0.01	-1.79%
282418082393702	GRACE MEMORIAL #2	1190	0	0.00	Yes	Increasing	6	1.15	5	1.54	0.39	34.17%
281440082423301	GULF MIDDLE HIGH	10763	0	0.43	No		6	2.57	5	2.01	-0.56	-21.90%
280058082252001	HILLS CO ASR SMW-1	1091	0	0.55	No		5	3.38	5	3.20	-0.18	-5.27%
275443082224001	JAMES BYRD NR RIVERVIEW	961	0	0.00	Yes	Decreasing	6	4.63	6	3.66	-0.97	-21.05%
274837082232901	KUSHMER WL AT ADAMSVILLE	429	0	0.05	No		5	0.28	6	0.35	0.07	23.97%
275955082335801	LIBRARY DP WL ON PAULA	993	0	0.13	No		6	6.93	5	7.30	0.38	5.44%
273825082191701	LITTLE MANATEE RIVER WELL	1372	0	0.29	No		3	148.65	11	40.40	-108.25	-72.82%
271242082171701	MACARTHUR TRACT 10H	1269	0	0.22	No		6	0.07	6	0.07	0.00	-2.09%
270807082152701	MACARTHUR TRACT 14FS	1262	0	0.01	Yes	Increasing	6	0.24	11	0.25	0.02	6.30%
272807082401501	MANATEE FRUIT #3	1105	0	0.00	Yes	Increasing	15	1.39	15	2.87	1.49	107.15%
272738082384701	MANATEE FRUIT-MIDWAY	1110	0	0.04	Yes	Increasing	6	0.99	4	1.17	0.18	18.28%
275458082310301	MARTIN MURPHEY	970	0	0.91	No		6	7.27	6	7.16	-0.11	-1.49%
281223082442301	METHODIST CHURCH	1195	0	0.50	No		6	1.47	5	1.43	-0.03	-2.23%
274904082423601	MILLER WELL- KENNETH CITY	1217	0	0.25	No		6	179.18	5	98.54	-80.64	-45.01%
272735082083401	MYAKKA HEAD #5 USGS	1109	0	0.40	No		6	0.13	5	0.13	-0.01	-3.71%
274935082370207	NORTHEAST INJECTION B-11	1356	0	0.05	No		6	8.83	5	8.66	-0.18	-2.02%
280208082401101	NWHWRAP 18-F	10838	0	0.10	No		5	14.30	5	12.98	-1.32	-9.25%
280033082284901	NWHWRAP-2	10856	0	0.08	No		6	1.24	8	1.66	0.43	34.49%
281142082424001	NWHWRAP-3	10771	0	0.04	Yes	Increasing	6	12.99	8	22.31	9.31	71.68%
275130082194501	OAKRIDGE #46 - RIVERCREST	643	0	0.06	No		6	0.58	6	0.71	0.13	22.26%
270928082172401	OM-41 SARASOTA COUNTY	1238	0	0.85	No		14	0.03	15	0.03	0.00	-2.31%
272949082404001	PERICO ISLAND WELL	1106	0	0.57	No		6	1.06	15	1.07	0.01	1.41%
270406082220102	PLANTATION SUWANNEE	1265	0	0.59	No		6	0.72	6	0.73	0.01	1.87%
281652082423301	PORT RICHEY CITY DP	1179	0	0.00	Yes	Increasing	6	5.96	5	10.00	4.04	67.75%
283203082370201	PRESBYTERIAN YOUTH CAMP	16	0	0.00	Yes	Increasing	7	11.57	15	16.16	4.59	39.68%
274031082150401	ROMP 123 DEEP	87	0	0.59	No		6	0.78	11	0.79	0.01	1.12%
270417081370204	ROMP 13 SWNN	12872	0	1.00	No		5	1.30	15	1.31	0.02	1.27%
271232081392201	ROMP 15 DEEP	10933	1	0.00	Yes	Decreasing	6	0.10	11	0.07	-0.03	-25.99%
271026081583602	ROMP 17 SWNN	11041	0	0.18	No		15	0.18	15	0.18	0.00	-1.67%
271135082074801	ROMP 18 SUWANNEE	450	0	0.20	No		15	0.15	12	0.15	0.00	-2.71%
271021082151601	ROMP 19 ELAM	10937	1	0.96	No		6	0.07	12	0.07	0.00	-3.50%

Table 36. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
270959082203001	ROMP 19 WLAM	10938	1	0.67	No		8	0.04	7	0.04	0.00	-2.20%
271138082284604	ROMP 20 SWNN	11306	0	0.00	Yes	Decreasing	15	0.22	15	0.17	-0.04	-19.80%
271843082201703	ROMP 22 SWNN	11176	0	0.45	No		15	0.06	15	0.06	0.00	-1.91%
272728082152902	ROMP 33 SWNN	299	0	0.14	No		16	0.25	15	0.21	-0.04	-15.39%
273521082150502	ROMP 39 SWNN	11451	0	0.22	No		14	0.11	13	0.10	-0.01	-6.07%
274427082083701	ROMP 48 FLORIDAN	10910	0	0.52	No		6	0.30	11	0.30	0.01	2.91%
274546082151404	ROMP 49 SWN	10903	0	0.42	No		15	0.26	14	0.25	-0.01	-2.87%
265644081482904	ROMP 5 SWNN	12884	0	0.67	No		5	3.26	15	3.31	0.05	1.63%
274240082212701	ROMP 50 FLORIDAN	10914	0	0.01	Yes	Decreasing	15	0.08	14	0.07	-0.01	-10.72%
270432082085701	ROMP 9 SWNN	12902	0	0.01	Yes	Increasing	7	1.45	15	1.49	0.03	2.37%
275402082222701	ROMP TR 10-2 DEEP	10883	0	0.64	No		6	5.66	11	5.75	0.09	1.66%
275705082222001	ROMP TR 11-2	10870	0	0.02	Yes	Increasing	5	1.57	6	1.61	0.04	2.52%
265026081585404	ROMP TR 1-2 SWNN	11334	0	0.68	No		15	3.83	15	3.75	-0.08	-2.16%
275820082324602	ROMP TR 12-1 DP (NEW)	12950	0	0.66	No		6	9.82	5	9.85	0.03	0.35%
280005082324201	ROMP TR 12-3 (NEW)	10854	0	0.93	No		6	9.25	5	8.77	-0.48	-5.21%
275458082464002	ROMP TR 13-1 SUWANNEE	10875	0	0.00	Yes	Increasing	6	18.57	5	26.98	8.41	45.27%
275430082431402	ROMP TR 13-2X SUWANNEE	10877	0	0.94	No		6	64.61	6	71.38	6.77	10.48%
280132082452802	ROMP TR 14-2 TAMPA	10843	1	0.43	No		6	8.68	5	9.17	0.49	5.67%
280118082435002	ROMP TR 14-3 SWNN	10845	1	0.05	No		6	34.58	5	102.53	67.95	196.48%
280753082465201	ROMP TR 15-1 TAMPA	345	0	0.35	No		6	26.94	4	36.29	9.35	34.71%
280747082452001	ROMP TR 15-2 TAMPA	398	0	0.25	No		6	6.29	5	5.97	-0.32	-5.12%
280734082442101	ROMP TR 15-3 SWNN	10783	0	0.00	Yes	Increasing	6	9.26	5	10.51	1.26	13.58%
281518082424301	ROMP TR 16-2	11006	0	0.06	No		6	2.64	14	3.07	0.43	16.15%
281917082420901	ROMP TR 17-1 DEEP	746	0	0.66	No		6	8.21	5	8.37	0.16	1.90%
265638082130706	ROMP TR 3-1 SUWANNEE	2	2	0.00	Yes	Decreasing	15	0.97	15	0.91	-0.06	-5.88%
265531082194803	ROMP TR 3-3 SUWANNEE	11073	0	0.39	No		15	7.79	15	7.71	-0.09	-1.13%
270240082235701	ROMP TR 4-2 SUWANNEE	10944	0	0.63	No		7	0.37	15	0.37	0.00	-0.43%
270808082270502	ROMP TR 5-1 SUWANNEE	10940	0	0.00	Yes	Increasing	15	0.06	15	0.06	0.00	4.73%
270919082234305	ROMP TR 5-2 SUWANNEE	269	0	0.73	No		6	0.03	11	0.03	0.00	1.95%
272510082345701	ROMP TR 7-1	287	0	0.00	Yes	Decreasing	9	0.27	11	0.23	-0.04	-14.61%
272612082330102	ROMP TR 7-2 SH FL	11390	0	0.00	Yes	Decreasing	9	0.52	6	0.24	-0.27	-53.19%
272539082292002	ROMP TR 7-4 SWNN	10926	0	0.03	Yes	Increasing	15	0.12	15	0.13	0.00	4.15%
272539082292003	ROMP TR 7-4 TAMPA	411	0	0.18	No		6	0.13	5	0.14	0.02	12.40%
273458082324705	ROMP TR 8-1 SWNN	259	0	0.02	Yes	Decreasing	15	0.28	16	0.27	-0.01	-4.65%
274554082233803	ROMP TR 9-2 SWNN	10900	0	0.00	Yes	Increasing	15	0.46	15	0.52	0.05	11.27%
274428082251502	ROMP TR 9-3 SWNN	10909	0	0.00	Yes	Increasing	17	0.51	15	0.55	0.04	8.56%
272049082324503	ROMP TR SA-1 SUWANNEE	12004	0	0.02	Yes	Decreasing	7	0.84	15	0.79	-0.05	-5.47%
280923082433602	SALT BAYOU FL-JOHNSON	10777	0	0.76	No		6	5.55	4	5.64	0.10	1.76%
272316082302601	SARASOTA CO TEST WELL #1	342	0	0.03	Yes	Increasing	6	0.14	6	0.17	0.02	17.03%
275611082211701	SEABOARD UTIL #8	971	0	0.11	No		5	1.80	4	1.65	-0.15	-8.48%
273159082373101	SNEAD'S ISLAND	229	0	0.15	No		15	0.36	15	0.35	0.00	-1.21%
274912082441001	SOUTH CROSS BAYOU W S9	1211	0	0.57	No		3	61.43	5	191.67	130.24	212.02%
275724082221001	SWFWMD WELL AT S-160	325	0	0.02	Yes	Increasing	6	1.35	16	1.39	0.05	3.40%
281128082445501	TAHITIAN DEEP WELL	1352	0	0.79	No		6	3.91	5	1.42	-2.48	-63.59%
280246082383601	TAMPA BAY DOWNS WRAP-57F	10832	0	0.82	No		6	5.33	6	5.31	-0.02	-0.41%

Table 36. Chloride:Sulfate Ratio Trend in the Tampa/Suwannee Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
275316082285901	TAMPA YACHT & STABLES	1095	0	0.06	No		6	11.91	6	23.45	11.54	96.91%
280055082222701	TBC - 09	169	0	0.02	Yes	Increasing	6	0.36	5	0.42	0.06	16.64%
280112082270101	TOURIST CLUB WL AT SUL SP	520	0	0.61	No		6	4.84	4	4.67	-0.16	-3.36%
270705082250101	VENICE 2E	1240	0	0.92	No		8	0.17	15	0.17	0.00	-1.54%
274928082225501	WELL 220 AT ADAMSVILLE	985	0	0.02	Yes	Increasing	5	0.27	6	0.28	0.01	3.00%
282553082395301	WHITING WELL DEEP	1192	0	0.06	No		5	10.89	5	9.94	-0.95	-8.74%

Table 37. Chloride Trend in the Ocala/Avon Park Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.04	Yes	Increasing	3	156.00	5	181.00	25.00	16.03%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.67	No		3	1935.00	6	1940.00	5.00	0.26%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.01	Yes	Decreasing	4	102.50	6	88.35	-14.15	-13.80%
272705082373501	MANATEE INJECTION WELL	1112	0	0.02	Yes	Increasing	4	3651.00	5	3847.37	196.37	5.38%
280725082412801	NWHWRAP-1D	10784	0	0.00	Yes	Increasing	6	1092.00	6	1322.75	230.75	21.13%
280033082284902	NWHWRAP-2D	10855	0	0.00	Yes	Increasing	6	518.50	6	1013.90	495.40	95.54%
281142082424002	NWHWRAP-3D	10770	0	0.00	Yes	Increasing	5	937.00	6	997.00	60.00	6.40%
280411082364301	NWHWRAP-4D	10826	0	0.66	No		6	27.50	6	27.13	-0.38	-1.36%
271026081583601	ROMP 17 AP	11046	0	0.00	Yes	Increasing	6	124.50	6	145.50	21.00	16.87%
271138082284605	ROMP 20 OCALA	11302	0	0.01	Yes	Increasing	6	1367.50	6	1576.14	208.64	15.26%
271843082201704	ROMP 22 AVON PARK	11177	0	0.70	No		5	22.00	6	22.13	0.13	0.59%
271906082112401	ROMP 23-1 DEEP	647	0	0.36	No		3	16.00	6	15.80	-0.20	-1.25%
272814082034801	ROMP 32 AVON PARK	503	0	0.51	No		3	11.00	6	11.10	0.10	0.91%
272728082152901	ROMP 33 AVON PARK	298	0	0.55	No		6	19.00	6	19.55	0.55	2.89%
273521082150501	ROMP 39 AVON PARK	11449	0	0.42	No		5	12.00	6	12.45	0.45	3.75%
274427082083703	ROMP 48 AVON PARK	489	0	0.50	No		3	13.00	6	12.11	-0.90	-6.88%
274546082151403	ROMP 49 AVON PARK	37	0	0.58	No		4	14.00	6	14.55	0.55	3.93%
274026082252101	ROMP 51 - ELAPP	11726	0	0.85	No		3	18.00	6	18.62	0.62	3.44%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.15	No		3	20.00	6	40.45	20.45	102.25%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.31	No		6	413.00	6	407.50	-5.50	-1.33%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	6	275.50	6	470.91	195.41	70.93%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.56	No		6	107.00	6	107.50	0.50	0.47%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.00	Yes	Increasing	5	1307.00	6	1700.00	393.00	30.07%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	1074.50	6	2558.18	1483.68	138.08%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.00	Yes	Increasing	6	369.00	6	716.07	347.07	94.06%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	6	3435.00	6	7136.15	3701.15	107.75%
274552082220501	ROMP TR AB-3	11727	0	0.01	Yes	Increasing	4	739.00	7	5860.00	5121.00	692.96%
270442081494301	ROPER GROVES WELL	866	0	0.02	Yes	Increasing	3	305.00	6	379.00	74.00	24.26%
280053082350202	SHELDON RD DEEP	146	0	0.02	Yes	Increasing	3	2590.00	6	2720.00	130.00	5.02%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.02	Yes	Increasing	3	124.00	6	408.95	284.95	229.80%

Table 38. Chloride Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
284751082362401	CSPR-4 NATURES RESORT UP	13122	0	0.23	No		6	587.50	7	714.00	126.50	21.53%
270542081560301	EUGENE TURNER WELL	16280	0	0.01	Yes	Increasing	6	351.50	7	386.00	34.50	9.82%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.96	No		5	2080.00	7	1940.00	-140.00	-6.73%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.05	No		6	93.75	7	88.30	-5.45	-5.81%
272705082373501	MANATEE INJECTION WELL	1112	0	0.23	No		5	3810.00	6	3853.69	43.69	1.15%
280725082412801	NWHWRAP-1D	10784	0	1.00	No		6	1330.00	7	1330.00	0.00	0.00%
280033082284902	NWHWRAP-2D	10855	0	0.00	Yes	Increasing	6	537.00	7	1000.00	463.00	86.22%
281142082424002	NWHWRAP-3D	10770	0	0.94	No		6	997.00	7	994.00	-3.00	-0.30%
280411082364301	NWHWRAP-4D	10826	0	0.31	No		6	28.00	7	25.85	-2.15	-7.68%
270417081370205	ROMP 13 AVON PARK	12916	0	0.13	No		6	229.00	7	261.00	32.00	13.97%
270856081211404	ROMP 14 AVON PARK	13239	0	0.38	No		3	32.80	7	31.70	-1.10	-3.35%
271026081583601	ROMP 17 AP	11046	0	0.00	Yes	Increasing	5	127.00	7	150.00	23.00	18.11%
271138082284605	ROMP 20 OCALA	11302	0	0.51	No		6	1552.00	7	1600.00	48.00	3.09%
271843082201704	ROMP 22 AVON PARK	11177	0	0.53	No		6	21.45	7	22.66	1.21	5.64%
271906082112401	ROMP 23-1 DEEP	647	0	0.53	No		4	15.25	7	15.90	0.65	4.26%
272159082002504	ROMP 25 LILY AVON PARK	17258	0	0.32	No		4	28.10	7	18.50	-9.60	-34.16%
271757081493002	ROMP 26 AVON PARK	255	0	0.22	No		3	15.30	7	14.20	-1.10	-7.19%
272207081260407	ROMP 28 UP AVON PARK	12101	0	0.18	No		3	8.07	7	8.67	0.60	7.43%
272728081474701	ROMP 30 AVON PARK	353	0	1.00	No		3	17.90	7	19.00	1.10	6.15%
272814082034801	ROMP 32 AVON PARK	503	0	0.34	No		4	10.70	7	11.30	0.60	5.61%
272728082152901	ROMP 33 AVON PARK	298	0	0.70	No		6	18.40	7	19.80	1.40	7.61%
273521082150501	ROMP 39 AVON PARK	11449	0	0.84	No		5	12.50	7	12.50	0.00	0.00%
273615081284901	ROMP 43XX FLORIDAN	10916	0	0.07	No		3	6.35	7	7.09	0.74	11.65%
274547081470903	ROMP 45 AVON PARK	33	0	0.63	No		3	7.58	7	7.73	0.15	1.98%
274427082083703	ROMP 48 AVON PARK	489	0	0.69	No		4	12.00	7	12.10	0.10	0.83%
274546082151403	ROMP 49 AVON PARK	37	0	0.84	No		3	14.40	7	14.50	0.10	0.69%
265644081482905	ROMP 5 AVON PARK	12885	0	0.84	No		6	955.00	7	955.00	0.00	0.00%
274026082252101	ROMP 51 - ELAPP	11726	0	0.17	No		6	18.11	7	18.84	0.74	4.06%
275511081353802	ROMP 58 OCALA	10872	0	0.67	No		3	5.47	7	5.49	0.02	0.37%
270432082085705	ROMP 9 AVON PARK	12963	0	0.06	No		6	667.00	7	651.00	-16.00	-2.40%
283957082342901	ROMP TR 20-2	13344	0	0.25	No		6	827.00	7	852.42	25.42	3.07%
283929082331102	ROMP TR 20-3 UFM	13371	0	0.13	No		6	5.24	7	5.89	0.65	12.40%
283929082331101	ROMP TR 20-3 UFWQM	13370	0	0.16	No		6	1725.00	7	1750.00	25.00	1.45%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.18	No		6	19.25	7	40.70	21.45	111.43%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.53	No		6	413.50	7	410.00	-3.50	-0.85%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	6	402.50	7	480.81	78.31	19.46%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.17	No		6	105.00	7	108.00	3.00	2.86%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.02	Yes	Increasing	6	1567.50	7	1700.00	132.50	8.45%
273433082305401	ROMP TR 8-2 AVON PARK	17155	0	0.01	Yes	Increasing	6	1631.50	7	2347.94	716.44	43.91%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	1945.00	7	2650.00	705.00	36.25%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.02	Yes	Increasing	6	635.00	7	731.00	96.00	15.12%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	6	6115.00	7	7240.00	1125.00	18.40%
274552082220501	ROMP TR AB-3	11727	0	0.00	Yes	Increasing	6	4212.00	8	6020.00	1808.00	42.92%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.15	No		6	401.50	7	414.61	13.11	3.27%
272056082303701	ROMP TR SA-3 UP FLORIDAN	13236	0	0.01	Yes	Increasing	6	136.00	7	149.00	13.00	9.56%

Table 38. Chloride Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270442081494301	ROPER GROVES WELL	866	0	1.00	No		3	387.00	6	379.00	-8.00	-2.07%
280053082350202	SHELDON RD DEEP	146	0	0.88	No		4	2696.50	7	2690.00	-6.50	-0.24%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.01	Yes	Increasing	4	327.00	7	417.00	90.00	27.52%

Table 39. Chloride Trend in the Ocala/Avon Park Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
284939082344701	BAPTIST CHURCH PASTORIUM	782	0	0.19	No		6	52.00	5	56.10	4.10	7.88%
284317082330601	CHASSAHOWITZKA #1	199	0	0.05	Yes	Increasing	6	7.40	5	8.18	0.78	10.54%
282229082405801	COASTAL PASCO #2	242	0	0.79	No		6	11250.50	5	11284.52	34.02	0.30%
270440081434401	CROMWELL WELL #1	868	0	0.00	Yes	Increasing	6	111.00	8	1228.14	1117.14	1006.43%
285421082361602	CRYSTAL RIVER DEEP	193	0	0.00	Yes	Increasing	6	3104.00	5	3660.00	556.00	17.91%
285421082361601	CRYSTAL RIVER SHALLOW	189	0	0.13	No		6	47.00	5	41.30	-5.70	-12.13%
285220082354401	CRYSTAL SHORES	779	0	0.43	No		6	91.10	5	81.60	-9.50	-10.43%
285224082354901	CRYSTAL SHORES ESTATES	780	0	0.02	Yes	Decreasing	6	220.00	5	175.00	-45.00	-20.45%
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.00	Yes	Increasing	6	155.50	7	176.00	20.50	13.18%
285737082413001	FL POWER CORP # 2	579	0	0.01	Yes	Increasing	7	307.00	5	368.00	61.00	19.87%
285737082400601	FPC WELL 3 NR CRYSTAL R	486	0	0.19	No		7	15.00	5	14.70	-0.30	-2.00%
282923082380301	HERNANDO BEACH SUPPLY	914	0	0.27	No		6	22.40	5	21.00	-1.40	-6.25%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.27	No		12	2011.00	14	1970.00	-41.00	-2.04%
280058082252002	HILLS CO ASR SZMW-1	1335	0	0.14	No		5	1141.00	5	1160.00	19.00	1.67%
284736082342901	HOMO SWD BRADSHAW 2	810	0	0.06	No		5	6.10	5	19.20	13.10	214.75%
284551082345301	HOMOSASSA WELL 3	628	0	0.03	Yes	Increasing	6	263.00	5	502.00	239.00	90.87%
285554082373001	HRS 15 COON	11609	0	0.11	No		5	13.60	4	17.31	3.71	27.28%
284243082343201	HRS 19A ZOLINGER	11851	0	0.79	No		6	838.00	5	1193.00	355.00	42.36%
283257082343201	HRS 54 KOSTER	11694	0	0.59	No		6	9.85	9	8.16	-1.69	-17.16%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.00	Yes	Decreasing	13	100.00	15	92.00	-8.00	-8.00%
282600082392601	MAGNOLIA SPRINGS WELL	941	0	0.66	No		6	13.00	5	12.00	-1.00	-7.69%
272705082373501	MANATEE INJECTION WELL	1112	0	0.00	Yes	Increasing	13	3652.00	12	3838.69	186.69	5.11%
284803082351701	NORRIS WL AT HOMOSASSA	712	0	0.13	No		6	212.00	5	268.00	56.00	26.42%
280725082412801	NWHWRAP-1D	10784	0	0.00	Yes	Increasing	15	1090.00	15	1290.00	200.00	18.35%
280033082284902	NWHWRAP-2D	10855	0	0.34	No		15	524.00	15	621.00	97.00	18.51%
281142082424002	NWHWRAP-3D	10770	0	0.00	Yes	Increasing	14	940.50	15	994.00	53.50	5.69%
280411082364301	NWHWRAP-4D	10826	0	0.81	No		13	28.00	15	28.10	0.10	0.36%
282956082333001	OAKHILL GOLF COURSE 1	947	0	0.07	No		3	6.20	5	7.33	1.13	18.23%
285102082361001	OZELLO WL 4 NR CRYSTAL R	482	0	0.22	No		8	329.50	5	400.89	71.39	21.67%
290200082432301	ROMP 124 DEEP	681	0	0.00	Yes	Decreasing	6	133.00	5	77.20	-55.80	-41.95%
270417081370205	ROMP 13 AVON PARK	12916	0	0.84	No		3	235.00	14	258.00	23.00	9.79%
271026081583601	ROMP 17 AP	11046	0	0.12	No		15	123.00	14	128.50	5.50	4.47%
271138082284605	ROMP 20 OCALA	11302	0	0.00	Yes	Increasing	15	1423.00	14	1540.64	117.64	8.27%
271843082201704	ROMP 22 AVON PARK	11177	0	0.77	No		14	21.00	15	21.40	0.40	1.90%
271906082112401	ROMP 23-1 DEEP	647	0	0.37	No		6	16.00	12	15.35	-0.65	-4.06%
272207081260406	ROMP 28 EVAPORITE	12711	1	0.67	No		3	60.60	7	63.50	2.90	4.79%
272207081260405	ROMP 28 L AVON PARK	12711	0	0.79	No		3	10.90	7	10.70	-0.20	-1.83%
272814082034801	ROMP 32 AVON PARK	503	0	0.10	No		6	11.50	11	11.00	-0.50	-4.35%
272728082152901	ROMP 33 AVON PARK	298	0	0.55	No		16	18.00	15	18.20	0.20	1.11%
273521082150501	ROMP 39 AVON PARK	11449	0	0.84	No		14	12.50	13	12.50	0.00	0.00%
273851082031501	ROMP 40 AVON PARK	368	0	1.00	No		6	10.50	6	10.75	0.25	2.33%
274427082083703	ROMP 48 AVON PARK	489	0	0.40	No		6	12.50	11	12.10	-0.40	-3.20%
274546082151403	ROMP 49 AVON PARK	37	0	0.14	No		13	15.00	11	14.50	-0.50	-3.33%
265644081482905	ROMP 5 AVON PARK	12885	0	0.89	No		4	934.50	15	958.00	23.50	2.51%
274240082212703	ROMP 50 AVON PARK	394	0	0.66	No		5	3122.00	6	2800.00	-322.00	-10.31%

Table 39. Chloride Trend in the Ocala/Avon Park Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
274026082252101	ROMP 51 - ELAPP	11726	0	0.84	No		12	18.25	15	18.51	0.26	1.42%
275110082185501	ROMP 62 - CAMPO	11413	0	0.20	No		11	23.40	7	24.65	1.25	5.34%
270432082085705	ROMP 9 AVON PARK	12963	0	0.16	No		5	674.00	15	663.00	-11.00	-1.63%
290230082412501	ROMP TR 125 CRACKERT	119	0	0.61	No		6	10.70	5	10.90	0.20	1.87%
282742082375901	ROMP TR 18-1	364	0	0.41	No		4	4.79	5	4.47	-0.32	-6.58%
282659082391102	ROMP TR 18-2 LOWER AV PK	10745	0	0.41	No		4	16795.00	5	16976.45	181.45	1.08%
282659082391104	ROMP TR 18-2 U AVON PARK	10745	2	0.14	No		7	5.50	5	6.49	0.99	18.00%
282613082381701	ROMP TR 18-3 L AVON PARK	10794	1	1.00	No		4	9.78	5	9.53	-0.25	-2.56%
282613082381704	ROMP TR 18-3 U AVON PARK	10794	0	0.52	No		4	4.48	5	4.64	0.16	3.57%
283243082365701	ROMP TR 19-2 DEEP	479	0	0.93	No		6	2724.50	5	2500.00	-224.50	-8.24%
285112082354401	ROMP TR 21-2 DP	10730	0	0.70	No		6	241.50	5	243.00	1.50	0.62%
285234082341901	ROMP TR 21-3 AVON PA	412	0	0.00	Yes	Increasing	6	94.05	5	103.00	8.95	9.52%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.68	No		8	20.00	15	20.80	0.80	4.00%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.93	No		15	407.00	15	410.00	3.00	0.74%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	15	303.00	15	414.00	111.00	36.63%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.53	No		15	104.00	15	107.00	3.00	2.88%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.00	Yes	Increasing	14	1313.50	15	1630.00	316.50	24.10%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	15	1209.00	15	1970.00	761.00	62.94%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.00	Yes	Increasing	15	421.00	15	637.00	216.00	51.31%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	17	4250.00	15	6300.00	2050.00	48.24%
274552082220501	ROMP TR AB-3	11727	0	0.00	Yes	Increasing	23	1033.00	16	5470.00	4437.00	429.53%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.32	No		7	413.00	15	410.00	-3.00	-0.73%
270442081494301	ROPER GROVES WELL	866	0	0.02	Yes	Increasing	6	305.00	10	379.00	74.00	24.26%
280053082350202	SHELDON RD DEEP	146	0	0.66	No		6	2706.50	12	2700.00	-6.50	-0.24%
284457082330302	SUGARMILL MZ1 DUAL DEEP	460	0	0.66	No		6	400.50	5	403.79	3.29	0.82%
284457082330301	SUGARMILL MZ1 DUAL SH	460	1	0.16	No		6	4.70	5	5.13	0.43	9.15%
280907082424801	TARPON ROAD DEEP WELL	748	0	0.23	No		6	55.55	5	54.50	-1.05	-1.89%
275215082201901	US PHOSPHORIC	703	0	0.31	No		6	1414.00	6	1498.55	84.55	5.98%
290107082400501	USGS WELL CE 88	10728	0	0.54	No		6	5.05	5	4.94	-0.11	-2.18%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.00	Yes	Increasing	6	166.00	12	372.00	206.00	124.10%
283527082365701	WEEKI WELL 2	546	0	0.23	No		6	55.00	5	55.50	0.50	0.91%
283529082355801	WEEKI WELL 3	206	0	0.24	No		6	41.00	5	45.70	4.70	11.46%

Table 40. Sulfate Trend in the Ocala/Avon Park Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.50	No		3	140.00	5	145.00	5.00	3.57%
280058082252003	HILLS CO ASR DMW-1	1336	0	1.00	No		3	477.00	6	503.00	26.00	5.45%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.45	No		4	1685.00	6	1670.00	-15.00	-0.89%
272705082373501	MANATEE INJECTION WELL	1112	0	0.06	No		4	1265.00	5	1297.87	32.87	2.60%
280725082412801	NWHWRAP-1D	10784	0	0.06	No		6	361.00	6	408.18	47.18	13.07%
280033082284902	NWHWRAP-2D	10855	0	0.00	Yes	Increasing	6	161.00	6	295.97	134.97	83.83%
281142082424002	NWHWRAP-3D	10770	0	0.66	No		5	216.00	6	224.00	8.00	3.70%
280411082364301	NWHWRAP-4D	10826	0	0.37	No		6	421.50	6	444.00	22.50	5.34%
271026081583601	ROMP 17 AP	11046	0	0.08	No		6	371.50	6	361.00	-10.50	-2.83%
271138082284605	ROMP 20 OCALA	11302	0	0.73	No		6	1785.50	6	1781.49	-4.01	-0.22%
271843082201704	ROMP 22 AVON PARK	11177	0	0.43	No		5	1585.00	6	1535.00	-50.00	-3.15%
271906082112401	ROMP 23-1 DEEP	647	0	0.38	No		3	424.00	6	409.00	-15.00	-3.54%
272814082034801	ROMP 32 AVON PARK	503	0	0.50	No		3	83.00	6	81.25	-1.75	-2.11%
272728082152901	ROMP 33 AVON PARK	298	0	0.29	No		6	1372.50	6	1345.00	-27.50	-2.00%
273521082150501	ROMP 39 AVON PARK	11449	0	0.12	No		5	118.00	6	119.50	1.50	1.27%
274427082083703	ROMP 48 AVON PARK	489	0	0.02	Yes	Decreasing	3	42.00	6	40.85	-1.15	-2.74%
274546082151403	ROMP 49 AVON PARK	37	0	0.10	No		4	60.50	6	59.61	-0.90	-1.48%
274026082252101	ROMP 51 - ELAPP	11726	0	0.38	No		3	411.00	6	384.50	-26.50	-6.45%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.24	No		3	1545.00	6	1515.00	-30.00	-1.94%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.00	Yes	Decreasing	6	566.50	6	540.50	-26.00	-4.59%
272539082292001	ROMP TR 7-4 AP	10927	0	0.03	Yes	Increasing	6	715.00	6	781.79	66.79	9.34%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.94	No		6	467.50	6	469.66	2.16	0.46%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.00	Yes	Increasing	5	680.00	6	745.16	65.16	9.58%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	574.50	6	776.17	201.67	35.10%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.01	Yes	Increasing	6	447.00	6	477.85	30.85	6.90%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	6	1802.00	6	2320.88	518.88	28.79%
274552082220501	ROMP TR AB-3	11727	0	0.01	Yes	Increasing	4	760.50	7	1663.05	902.55	118.68%
270442081494301	ROPER GROVES WELL	866	0	0.38	No		3	183.00	6	184.00	1.00	0.55%
280053082350202	SHELDON RD DEEP	146	0	1.00	No		3	482.00	6	483.50	1.50	0.31%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.02	Yes	Increasing	3	38.00	6	126.18	88.18	232.05%

Table 41. Sulfate Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
284751082362401	CSPR-4 NATURES RESORT UP	13122	0	0.18	No		6	66.25	7	82.40	16.15	24.38%
270542081560301	EUGENE TURNER WELL	16280	0	0.00	Yes	Increasing	6	199.50	7	210.00	10.50	5.26%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.79	No		5	508.00	7	483.00	-25.00	-4.92%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.84	No		6	1682.00	7	1670.00	-12.00	-0.71%
272705082373501	MANATEE INJECTION WELL	1112	0	0.23	No		5	1250.00	6	1288.94	38.94	3.11%
280725082412801	NWHWRAP-1D	10784	0	0.63	No		6	397.50	7	407.00	9.50	2.39%
280033082284902	NWHWRAP-2D	10855	0	0.00	Yes	Increasing	6	151.00	7	285.93	134.93	89.36%
281142082424002	NWHWRAP-3D	10770	0	0.63	No		6	220.00	7	222.00	2.00	0.91%
280411082364301	NWHWRAP-4D	10826	0	0.63	No		6	438.50	7	443.00	4.50	1.03%
270417081370205	ROMP 13 AVON PARK	12916	0	0.03	Yes	Increasing	6	173.00	7	195.00	22.00	12.72%
270856081211404	ROMP 14 AVON PARK	13239	0	1.00	No		3	75.50	7	67.70	-7.80	-10.33%
271026081583601	ROMP 17 AP	11046	0	0.76	No		5	361.00	7	362.00	1.00	0.28%
271138082284605	ROMP 20 OCALA	11302	0	0.34	No		6	1795.00	7	1780.00	-15.00	-0.84%
271843082201704	ROMP 22 AVON PARK	11177	0	0.87	No		6	1555.00	7	1540.00	-15.00	-0.96%
271906082112401	ROMP 23-1 DEEP	647	0	0.83	No		4	406.50	7	407.00	0.50	0.12%
272159082002504	ROMP 25 LILY AVON PARK	17258	0	0.89	No		4	1688.00	7	1680.00	-8.00	-0.47%
271757081493002	ROMP 26 AVON PARK	255	0	0.83	No		3	313.00	7	316.00	3.00	0.96%
272207081260407	ROMP 28 UP AVON PARK	12101	0	0.88	No		3	60.80	7	57.30	-3.50	-5.76%
272728081474701	ROMP 30 AVON PARK	353	0	0.52	No		3	248.00	7	220.00	-28.00	-11.29%
272814082034801	ROMP 32 AVON PARK	503	0	0.25	No		4	80.50	7	81.20	0.70	0.87%
272728082152901	ROMP 33 AVON PARK	298	0	0.44	No		6	1325.00	7	1350.00	25.00	1.89%
273521082150501	ROMP 39 AVON PARK	11449	0	0.85	No		5	121.00	7	120.00	-1.00	-0.83%
273615081284901	ROMP 43XX FLORIDAN	10916	0	0.07	No		3	3.96	7	6.29	2.33	58.84%
274547081470903	ROMP 45 AVON PARK	33	0	0.67	No		3	5.29	7	5.06	-0.23	-4.35%
274427082083703	ROMP 48 AVON PARK	489	0	0.08	No		4	42.00	7	40.70	-1.30	-3.10%
274546082151403	ROMP 49 AVON PARK	37	0	0.83	No		3	59.70	7	59.31	-0.39	-0.65%
265644081482905	ROMP 5 AVON PARK	12885	0	0.02	Yes	Decreasing	6	279.00	7	266.00	-13.00	-4.66%
274026082252101	ROMP 51 - ELAPP	11726	0	0.39	No		6	382.00	7	387.00	5.00	1.31%
275511081353802	ROMP 58 OCALA	10872	0	0.18	No		3	0.24	7	0.12	-0.12	-50.00%
270432082085705	ROMP 9 AVON PARK	12963	0	0.15	No		6	360.50	7	351.00	-9.50	-2.64%
283957082342901	ROMP TR 20-2	13344	0	0.97	No		6	599.00	7	603.00	4.00	0.67%
283929082331102	ROMP TR 20-3 UFM	13371	0	0.07	No		6	4.45	7	5.50	1.05	23.60%
283929082331101	ROMP TR 20-3 UFWQM	13370	0	0.86	No		6	1390.00	7	1370.00	-20.00	-1.44%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.00	Yes	Decreasing	6	1605.00	7	1510.00	-95.00	-5.92%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.19	No		6	560.50	7	544.00	-16.50	-2.94%
272539082292001	ROMP TR 7-4 AP	10927	0	0.22	No		6	760.00	7	791.57	31.57	4.15%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.23	No		6	465.00	7	471.00	6.00	1.29%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.22	No		6	722.00	7	741.32	19.32	2.68%
273433082305401	ROMP TR 8-2 AVON PARK	17155	0	0.05	No		6	783.00	7	908.00	125.00	15.96%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	673.50	7	788.00	114.50	17.00%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.87	No		6	474.50	7	476.69	2.19	0.46%
274428082251503	ROMP TR 9-3 AP	10909	1	0.04	Yes	Increasing	6	2122.50	7	2320.00	197.50	9.31%
274552082220501	ROMP TR AB-3	11727	0	0.00	Yes	Increasing	6	1357.50	8	1661.53	304.03	22.40%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.56	No		6	1100.00	7	1092.26	-7.74	-0.70%
272056082303701	ROMP TR SA-3 UP FLORIDAN	13236	0	0.31	No		6	993.00	7	981.00	-12.00	-1.21%

Table 41. Sulfate Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270442081494301	ROPER GROVES WELL	866	0	0.85	No		3	186.00	6	184.00	-2.00	-1.08%
280053082350202	SHELDON RD DEEP	146	0	0.68	No		4	485.00	7	487.00	2.00	0.41%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.01	Yes	Increasing	4	106.50	7	126.36	19.86	18.65%

Table 42. Sulfate Trend in the Ocala/Avon Park Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
284939082344701	BAPTIST CHURCH PASTORIUM	782	0	0.89	No		6	8.90	5	8.23	-0.67	-7.53%
284317082330601	CHASSAHOWITZKA #1	199	0	0.11	No		6	7.25	5	7.54	0.29	4.00%
282229082405801	COASTAL PASCO #2	242	0	0.02	Yes	Decreasing	6	1665.00	5	1597.91	-67.09	-4.03%
270440081434401	CROMWELL WELL #1	868	0	0.06	No		6	79.00	8	350.87	271.87	344.14%
285421082361602	CRYSTAL RIVER DEEP	193	0	0.18	No		6	433.00	5	535.72	102.72	23.72%
285421082361601	CRYSTAL RIVER SHALLOW	189	0	0.00	Yes	Decreasing	6	13.00	5	11.10	-1.90	-14.62%
285220082354401	CRYSTAL SHORES	779	0	0.32	No		6	15.00	5	13.82	-1.18	-7.87%
285224082354901	CRYSTAL SHORES ESTATES	780	0	0.05	Yes	Decreasing	6	32.25	5	26.86	-5.39	-16.71%
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.46	No		6	139.00	7	139.00	0.00	0.00%
285737082413001	FL POWER CORP # 2	579	0	0.01	Yes	Increasing	7	84.00	5	117.00	33.00	39.29%
285737082400601	FPC WELL 3 NR CRYSTAL R	486	0	0.02	Yes	Decreasing	7	2.50	5	2.15	-0.35	-14.00%
282923082380301	HERNANDO BEACH SUPPLY	914	0	0.79	No		6	22.15	5	22.27	0.12	0.54%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.59	No		12	482.50	14	490.50	8.00	1.66%
280058082252002	HILLS CO ASR SZMW-1	1335	0	0.15	No		5	275.00	5	285.59	10.59	3.85%
284736082342901	HOMO SWD BRADSHAW 2	810	0	0.22	No		5	5.80	5	6.61	0.81	13.97%
284551082345301	HOMOSASSA WELL 3	628	0	0.03	Yes	Increasing	6	39.35	5	62.70	23.35	59.34%
285554082373001	HRS 15 COON	11609	0	0.02	Yes	Increasing	5	3.00	4	12.69	9.69	323.00%
284243082343201	HRS 19A ZOLINGER	11851	0	0.93	No		6	102.50	5	92.80	-9.70	-9.46%
283257082343201	HRS 54 KOSTER	11694	0	0.01	Yes	Increasing	6	6.12	9	7.37	1.25	20.42%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.34	No		13	1680.00	15	1670.00	-10.00	-0.60%
282600082392601	MAGNOLIA SPRINGS WELL	941	0	0.13	No		6	8.58	5	9.16	0.59	6.82%
272705082373501	MANATEE INJECTION WELL	1112	0	0.82	No		13	1271.00	12	1265.00	-6.00	-0.47%
284803082351701	NORRIS WL AT HOMOSASSA	712	0	0.07	No		6	32.50	5	39.80	7.30	22.46%
280725082412801	NWHWRAP-1D	10784	0	0.02	Yes	Increasing	15	353.00	15	392.00	39.00	11.05%
280033082284902	NWHWRAP-2D	10855	0	0.72	No		15	162.00	15	177.00	15.00	9.26%
281142082424002	NWHWRAP-3D	10770	0	0.60	No		14	216.00	15	220.00	4.00	1.85%
280411082364301	NWHWRAP-4D	10826	0	0.02	Yes	Increasing	13	423.00	15	440.00	17.00	4.02%
282956082333001	OAKHILL GOLF COURSE 1	947	0	0.14	No		3	7.70	5	8.46	0.76	9.87%
285102082361001	OZELLO WL 4 NR CRYSTAL R	482	0	0.44	No		8	17.75	5	24.20	6.45	36.34%
290200082432301	ROMP 124 DEEP	681	0	0.66	No		6	1731.00	5	1730.00	-1.00	-0.06%
270417081370205	ROMP 13 AVON PARK	12916	0	0.49	No		3	173.00	14	183.00	10.00	5.78%
271026081583601	ROMP 17 AP	11046	0	0.03	Yes	Decreasing	15	367.00	14	360.50	-6.50	-1.77%
271138082284605	ROMP 20 OCALA	11302	0	0.87	No		15	1775.00	14	1781.49	6.49	0.37%
271843082201704	ROMP 22 AVON PARK	11177	0	0.27	No		14	1556.50	15	1540.00	-16.50	-1.06%
271906082112401	ROMP 23-1 DEEP	647	0	0.30	No		6	418.00	12	413.00	-5.00	-1.20%
272207081260406	ROMP 28 EVAPORITE	12711	1	0.67	No		3	2754.00	7	2800.00	46.00	1.67%
272207081260405	ROMP 28 L AVON PARK	12711	0	0.18	No		3	884.00	7	1171.00	287.00	32.47%
272814082034801	ROMP 32 AVON PARK	503	0	0.21	No		6	82.50	11	81.20	-1.30	-1.58%
272728082152901	ROMP 33 AVON PARK	298	0	0.03	Yes	Decreasing	16	1372.50	15	1330.00	-42.50	-3.10%
273521082150501	ROMP 39 AVON PARK	11449	0	0.12	No		14	118.00	13	120.00	2.00	1.69%
273851082031501	ROMP 40 AVON PARK	368	0	0.68	No		6	42.00	6	41.90	-0.10	-0.24%
274427082083703	ROMP 48 AVON PARK	489	0	0.01	Yes	Decreasing	6	42.55	11	41.06	-1.49	-3.50%
274546082151403	ROMP 49 AVON PARK	37	0	0.00	Yes	Decreasing	13	61.00	11	59.70	-1.30	-2.13%
265644081482905	ROMP 5 AVON PARK	12885	0	0.52	No		4	260.50	15	273.50	13.00	4.99%
274240082212703	ROMP 50 AVON PARK	394	0	0.79	No		5	2984.00	6	2750.03	-233.98	-7.84%

Table 42. Sulfate Trend in the Ocala/Avon Park Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
274026082252101	ROMP 51 - ELAPP	11726	0	0.59	No		12	382.00	15	380.34	-1.66	-0.43%
275110082185501	ROMP 62 - CAMPO	11413	0	0.06	No		11	80.00	7	80.89	0.89	1.11%
270432082085705	ROMP 9 AVON PARK	12963	0	0.02	Yes	Decreasing	5	374.00	15	356.00	-18.00	-4.81%
290230082412501	ROMP TR 125 CRACKERT	119	0	0.43	No		6	374.00	5	359.00	-15.00	-4.01%
282742082375901	ROMP TR 18-1	364	0	0.56	No		4	7.65	5	7.65	0.00	0.00%
282659082391102	ROMP TR 18-2 LOWER AV PK	10745	0	0.03	Yes	Increasing	4	2374.00	5	2580.00	206.00	8.68%
282659082391104	ROMP TR 18-2 U AVON PARK	10745	2	0.13	No		7	9.60	5	10.27	0.67	6.98%
282613082381701	ROMP TR 18-3 L AVON PARK	10794	1	0.06	No		4	161.50	5	177.00	15.50	9.60%
282613082381704	ROMP TR 18-3 U AVON PARK	10794	0	0.56	No		4	8.15	5	8.41	0.26	3.19%
283243082365701	ROMP TR 19-2 DEEP	479	0	0.93	No		6	392.50	5	387.00	-5.50	-1.40%
285112082354401	ROMP TR 21-2 DP	10730	0	0.83	No		6	27.50	5	27.14	-0.36	-1.31%
285234082341901	ROMP TR 21-3 AVON PA	412	0	0.26	No		6	12.00	5	12.20	0.20	1.67%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.35	No		8	1589.50	15	1577.00	-12.50	-0.79%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.05	No		15	565.00	15	551.00	-14.00	-2.48%
272539082292001	ROMP TR 7-4 AP	10927	0	0.01	Yes	Increasing	15	730.00	15	763.00	33.00	4.52%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.45	No		15	470.00	15	468.00	-2.00	-0.43%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.01	Yes	Increasing	14	696.50	15	722.00	25.50	3.66%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	15	595.00	15	680.00	85.00	14.29%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.01	Yes	Increasing	15	454.00	15	476.00	22.00	4.85%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	17	1910.00	15	2125.00	215.00	11.26%
274552082220501	ROMP TR AB-3	11727	0	0.00	Yes	Increasing	23	816.00	16	1540.00	724.00	88.73%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.10	No		7	1120.00	15	1090.00	-30.00	-2.68%
270442081494301	ROPER GROVES WELL	866	0	0.43	No		6	181.00	10	184.00	3.00	1.66%
280053082350202	SHELDON RD DEEP	146	0	0.51	No		6	492.00	12	484.00	-8.00	-1.63%
284457082330302	SUGARMILL MZ1 DUAL DEEP	460	0	0.75	No		6	102.50	5	99.40	-3.10	-3.02%
284457082330301	SUGARMILL MZ1 DUAL SH	460	1	0.25	No		6	7.62	5	7.08	-0.54	-7.03%
280907082424801	TARPON ROAD DEEP WELL	748	0	0.66	No		6	6.20	5	6.01	-0.19	-3.06%
275215082201901	US PHOSPHORIC	703	0	0.39	No		6	336.50	6	354.59	18.09	5.38%
290107082400501	USGS WELL CE 88	10728	0	0.93	No		6	9.75	5	8.81	-0.94	-9.64%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.00	Yes	Increasing	6	52.50	12	114.00	61.50	117.14%
283527082365701	WEEKI WELL 2	546	0	0.01	Yes	Decreasing	6	11.00	5	10.10	-0.90	-8.18%
283529082355801	WEEKI WELL 3	206	0	0.16	No		6	17.50	5	20.10	2.60	14.86%

Table 43. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone (Baseline Group A vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group A	Median of Group A	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.04	Yes	Increasing	3	1.16	5	1.27	0.10	8.79%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.90	No		3	3.88	6	4.00	0.12	3.00%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.48	No		4	0.06	6	0.05	-0.01	-12.71%
272705082373501	MANATEE INJECTION WELL	1112	0	0.06	No		4	2.91	5	3.00	0.09	3.21%
280725082412801	NWHWRAP-1D	10784	0	0.03	Yes	Increasing	6	3.04	6	3.29	0.25	8.17%
280033082284902	NWHWRAP-2D	10855	0	0.06	No		6	3.21	6	3.68	0.47	14.59%
281142082424002	NWHWRAP-3D	10770	0	0.08	No		5	4.36	6	4.49	0.13	3.02%
280411082364301	NWHWRAP-4D	10826	0	0.39	No		6	0.07	6	0.06	0.00	-3.07%
271026081583601	ROMP 17 AP	11046	0	0.00	Yes	Increasing	6	0.34	6	0.40	0.06	18.16%
271138082284605	ROMP 20 OCALA	11302	0	0.00	Yes	Increasing	6	0.77	6	0.89	0.12	15.62%
271843082201704	ROMP 22 AVON PARK	11177	0	0.54	No		5	0.01	6	0.01	0.00	5.80%
271906082112401	ROMP 23-1 DEEP	647	0	0.55	No		3	0.04	6	0.04	0.00	2.39%
272814082034801	ROMP 32 AVON PARK	503	0	0.71	No		3	0.14	6	0.14	0.00	1.33%
272728082152901	ROMP 33 AVON PARK	298	0	0.39	No		6	0.01	6	0.01	0.00	2.84%
273521082150501	ROMP 39 AVON PARK	11449	0	0.89	No		5	0.10	6	0.10	0.00	2.85%
274427082083703	ROMP 48 AVON PARK	489	0	0.90	No		3	0.30	6	0.29	-0.01	-3.11%
274546082151403	ROMP 49 AVON PARK	37	0	0.17	No		4	0.23	6	0.24	0.01	5.36%
274026082252101	ROMP 51 - ELAPP	11726	0	0.90	No		3	0.05	6	0.05	0.00	2.89%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.17	No		3	0.01	6	0.03	0.01	106.98%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.03	Yes	Increasing	6	0.73	6	0.76	0.03	4.30%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	6	0.39	6	0.61	0.22	56.13%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.59	No		6	0.23	6	0.23	0.00	0.13%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.00	Yes	Increasing	5	1.84	6	2.29	0.46	24.82%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	1.93	6	3.29	1.36	70.48%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.00	Yes	Increasing	6	0.83	6	1.49	0.65	78.23%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	6	1.92	6	3.05	1.14	59.33%
274552082220501	ROMP TR AB-3	11727	0	0.01	Yes	Increasing	4	0.97	7	3.62	2.64	271.69%
270442081494301	ROPER GROVES WELL	866	0	0.02	Yes	Increasing	3	1.66	6	2.06	0.40	24.26%
280053082350202	SHELDON RD DEEP	146	0	0.26	No		3	5.12	6	5.66	0.54	10.51%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.55	No		3	3.26	6	3.21	-0.06	-1.70%

Table 44. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
284751082362401	CSPR-4 NATURES RESORT UP	13122	0	0.73	No		6	8.01	7	8.37	0.36	4.49%
270542081560301	EUGENE TURNER WELL	16280	0	0.18	No		6	1.73	7	1.83	0.11	6.24%
280058082252003	HILLS CO ASR DMW-1	1336	0	0.76	No		5	4.07	7	4.02	-0.05	-1.32%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.23	No		6	0.06	7	0.05	0.00	-4.68%
272705082373501	MANATEE INJECTION WELL	1112	0	0.25	No		5	3.05	6	3.02	-0.02	-0.82%
280725082412801	NWHWRAP-1D	10784	0	0.63	No		6	3.33	7	3.29	-0.03	-1.00%
280033082284902	NWHWRAP-2D	10855	0	0.04	Yes	Increasing	6	3.44	7	3.69	0.25	7.31%
281142082424002	NWHWRAP-3D	10770	0	0.84	No		6	4.45	7	4.48	0.03	0.69%
280411082364301	NWHWRAP-4D	10826	0	0.63	No		6	0.06	7	0.06	0.00	-0.79%
270417081370205	ROMP 13 AVON PARK	12916	0	0.73	No		6	1.38	7	1.39	0.00	0.27%
270856081211404	ROMP 14 AVON PARK	13239	0	0.18	No		3	0.44	7	0.42	-0.02	-5.23%
271026081583601	ROMP 17 AP	11046	0	0.00	Yes	Increasing	5	0.35	7	0.40	0.06	16.85%
271138082284605	ROMP 20 OCALA	11302	0	0.63	No		6	0.89	7	0.89	0.00	-0.01%
271843082201704	ROMP 22 AVON PARK	11177	0	0.53	No		6	0.01	7	0.01	0.00	7.30%
271906082112401	ROMP 23-1 DEEP	647	0	0.32	No		4	0.04	7	0.04	0.00	4.55%
272159082002504	ROMP 25 LILY AVON PARK	17258	0	0.32	No		4	0.02	7	0.01	-0.01	-33.13%
271757081493002	ROMP 26 AVON PARK	255	0	0.18	No		3	0.05	7	0.05	0.00	-6.88%
272207081260407	ROMP 28 UP AVON PARK	12101	0	0.67	No		3	0.13	7	0.15	0.01	9.57%
272728081474701	ROMP 30 AVON PARK	353	0	0.67	No		3	0.07	7	0.09	0.02	29.94%
272814082034801	ROMP 32 AVON PARK	503	0	0.65	No		4	0.13	7	0.14	0.01	6.17%
272728082152901	ROMP 33 AVON PARK	298	0	0.84	No		6	0.01	7	0.01	0.00	2.90%
273521082150501	ROMP 39 AVON PARK	11449	0	0.88	No		5	0.11	7	0.11	0.00	-1.69%
273615081284901	ROMP 43XX FLORIDAN	10916	0	0.12	No		3	1.63	7	1.17	-0.46	-28.33%
274547081470903	ROMP 45 AVON PARK	33	0	0.12	No		3	1.43	7	1.52	0.08	5.79%
274427082083703	ROMP 48 AVON PARK	489	0	0.32	No		4	0.29	7	0.29	0.01	2.08%
274546082151403	ROMP 49 AVON PARK	37	0	0.83	No		3	0.24	7	0.24	0.00	1.04%
265644081482905	ROMP 5 AVON PARK	12885	0	0.05	No		6	3.42	7	3.62	0.20	5.88%
274026082252101	ROMP 51 - ELAPP	11726	0	0.23	No		6	0.05	7	0.05	0.00	3.99%
275511081353802	ROMP 58 OCALA	10872	0	0.05	Yes	Increasing	3	22.79	6	45.61	22.81	100.10%
270432082085705	ROMP 9 AVON PARK	12963	0	0.73	No		6	1.86	7	1.86	0.00	0.22%
283957082342901	ROMP TR 20-2	13344	0	0.05	No		6	1.38	7	1.42	0.04	2.91%
283929082331102	ROMP TR 20-3 UFM	13371	0	0.05	No		6	1.20	7	1.08	-0.12	-9.82%
283929082331101	ROMP TR 20-3 UFWQM	13370	0	0.23	No		6	1.25	7	1.28	0.03	2.38%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.10	No		6	0.01	7	0.03	0.02	125.00%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.14	No		6	0.75	7	0.76	0.01	1.73%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	6	0.53	7	0.62	0.09	17.06%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.84	No		6	0.23	7	0.23	0.00	-0.48%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.14	No		6	2.15	7	2.32	0.17	7.93%
273433082305401	ROMP TR 8-2 AVON PARK	17155	0	0.00	Yes	Increasing	6	2.14	7	2.55	0.41	19.01%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	Yes	Increasing	6	2.84	7	3.35	0.51	17.98%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.00	Yes	Increasing	6	1.31	7	1.50	0.19	14.62%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	6	2.83	7	3.08	0.26	9.04%
274552082220501	ROMP TR AB-3	11727	0	0.02	Yes	Increasing	6	3.09	8	3.63	0.54	17.37%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.29	No		6	0.37	7	0.38	0.02	4.82%
272056082303701	ROMP TR SA-3 UP FLORIDAN	13236	0	0.04	Yes	Increasing	6	0.14	7	0.15	0.02	11.12%

Table 44. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone (Previous Group B vs Current Group C) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group B	Median of Group B	# of samples in Group C	Median of Group C	Median Difference	Percent Change
270442081494301	ROPER GROVES WELL	866	0	0.90	No		3	2.09	6	2.06	-0.03	-1.30%
280053082350202	SHELDON RD DEEP	146	0	0.93	No		4	5.55	7	5.63	0.07	1.32%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.23	No		4	3.11	7	3.21	0.10	3.06%

Table 45. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone (Group D vs Group E)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
284939082344701	BAPTIST CHURCH PASTORIUM	782	0	0.25	No		6	5.89	5	6.59	0.70	11.89%
284317082330601	CHASSAHOWITZKA #1	199	0	0.76	No		6	1.03	5	1.02	-0.01	-1.14%
282229082405801	COASTAL PASCO #2	242	0	0.03	Yes	Increasing	6	6.76	5	7.06	0.31	4.51%
270440081434401	CROMWELL WELL #1	868	0	0.00	Yes	Increasing	6	1.38	8	3.60	2.22	161.26%
285421082361602	CRYSTAL RIVER DEEP	193	0	0.66	No		6	6.79	5	6.93	0.13	1.98%
285421082361601	CRYSTAL RIVER SHALLOW	189	0	0.50	No		6	3.63	5	3.88	0.25	6.98%
285220082354401	CRYSTAL SHORES	779	0	0.25	No		6	5.97	5	6.42	0.45	7.52%
285224082354901	CRYSTAL SHORES ESTATES	780	0	0.76	No		6	6.84	5	6.76	-0.08	-1.14%
270313081391001	EMERALD ISLAND FARMS (DID	871	0	0.00	Yes	Increasing	6	1.15	7	1.25	0.10	8.27%
285737082413001	FL POWER CORP # 2	579	0	0.34	No		7	3.44	5	3.86	0.42	12.08%
285737082400601	FPC WELL 3 NR CRYSTAL R	486	0	0.02	Yes	Increasing	7	5.99	5	6.83	0.84	13.98%
282923082380301	HERNANDO BEACH SUPPLY	914	0	0.13	No		6	0.97	5	0.93	-0.04	-4.43%
280058082252003	HILLS CO ASR DMW-1	1336	0	1.00	No		12	4.07	14	4.03	-0.04	-1.03%
280058082252002	HILLS CO ASR SZMW-1	1335	0	1.00	No		5	4.21	5	4.05	-0.16	-3.72%
284736082342901	HOMO SWD BRADSHAW 2	810	0	0.06	No		5	1.04	5	2.90	1.87	180.46%
284551082345301	HOMOSASSA WELL 3	628	0	0.33	No		6	6.63	5	7.34	0.71	10.72%
285554082373001	HRS 15 COON	11609	0	0.19	No		5	4.67	4	1.32	-3.34	-71.66%
284243082343201	HRS 19A ZOLINGER	11851	0	0.79	No		6	9.78	5	7.47	-2.31	-23.62%
283257082343201	HRS 54 KOSTER	11694	0	0.07	No		6	1.61	9	1.26	-0.35	-21.85%
270945082234401	KNIGHTS TRAIL FLORIDAN	1361	0	0.17	No		13	0.06	15	0.06	0.00	-6.66%
282600082392601	MAGNOLIA SPRINGS WELL	941	0	0.33	No		6	1.63	5	1.37	-0.26	-16.03%
272705082373501	MANATEE INJECTION WELL	1112	0	0.00	Yes	Increasing	13	2.90	12	3.04	0.14	4.92%
284803082351701	NORRIS WL AT HOMOSASSA	712	0	0.79	No		6	6.57	5	6.72	0.16	2.42%
280725082412801	NWHWRAP-1D	10784	0	0.00	Yes	Increasing	15	3.04	15	3.29	0.25	8.24%
280033082284902	NWHWRAP-2D	10855	0	0.02	Yes	Increasing	15	3.23	15	3.51	0.28	8.64%
281142082424002	NWHWRAP-3D	10770	0	0.03	Yes	Increasing	14	4.38	15	4.45	0.07	1.62%
280411082364301	NWHWRAP-4D	10826	0	0.44	No		13	0.07	15	0.06	0.00	-3.37%
282956082333001	OAKHILL GOLF COURSE 1	947	0	0.07	No		3	0.79	5	0.87	0.08	9.81%
285102082361001	OZELLO WL 4 NR CRYSTAL R	482	0	0.72	No		8	18.88	5	16.74	-2.14	-11.35%
290200082432301	ROMP 124 DEEP	681	0	0.05	No		6	0.08	5	0.04	-0.03	-42.51%
270417081370205	ROMP 13 AVON PARK	12916	0	0.51	No		3	1.42	14	1.39	-0.03	-2.06%
271026081583601	ROMP 17 AP	11046	0	0.03	Yes	Increasing	15	0.34	14	0.36	0.02	6.63%
271138082284605	ROMP 20 OCALA	11302	0	0.00	Yes	Increasing	15	0.80	14	0.89	0.08	10.12%
271843082201704	ROMP 22 AVON PARK	11177	0	0.77	No		14	0.01	15	0.01	0.00	-2.19%
271906082112401	ROMP 23-1 DEEP	647	0	0.89	No		6	0.04	12	0.04	0.00	2.42%
272207081260406	ROMP 28 EVAPORITE	12711	1	0.52	No		3	0.02	7	0.02	0.00	2.23%
272207081260405	ROMP 28 L AVON PARK	12711	0	0.12	No		3	0.01	7	0.01	0.00	-21.31%
272814082034801	ROMP 32 AVON PARK	503	0	0.15	No		6	0.14	11	0.14	-0.01	-3.83%
272728082152901	ROMP 33 AVON PARK	298	0	0.20	No		16	0.01	15	0.01	0.00	2.24%
273521082150501	ROMP 39 AVON PARK	11449	0	0.48	No		14	0.11	13	0.11	0.00	-1.04%
273851082031501	ROMP 40 AVON PARK	368	0	0.78	No		6	0.25	6	0.26	0.01	3.36%
274427082083703	ROMP 48 AVON PARK	489	0	0.96	No		6	0.29	11	0.29	0.00	0.24%
274546082151403	ROMP 49 AVON PARK	37	0	0.99	No		13	0.25	11	0.24	0.00	-0.94%
265644081482905	ROMP 5 AVON PARK	12885	0	0.81	No		4	3.51	15	3.53	0.01	0.42%
274240082212703	ROMP 50 AVON PARK	394	0	0.43	No		5	1.03	6	1.02	-0.02	-1.51%

Table 45. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone (Group D vs Group E) (continued)

Station ID	Station	UID Site	UID Seq	P-Value of Wilcoxon Rank Sum Test	Significant Trend?	Direction of Trend	# of samples in Group D	Median of Group D	# of samples in Group E	Median of Group E	Median Difference	Percent Change
274026082252101	ROMP 51 - ELAPP	11726	0	0.82	No		12	0.05	15	0.05	0.00	0.21%
275110082185501	ROMP 62 - CAMPO	11413	0	0.37	No		11	0.27	7	0.30	0.02	8.54%
270432082085705	ROMP 9 AVON PARK	12963	0	0.03	Yes	Increasing	5	1.77	15	1.85	0.08	4.60%
290230082412501	ROMP TR 125 CRACKERT	119	0	0.54	No		6	0.03	5	0.03	0.00	0.00%
282742082375901	ROMP TR 18-1	364	0	0.19	No		4	0.63	5	0.59	-0.04	-6.33%
282659082391102	ROMP TR 18-2 LOWER AV PK	10745	0	0.41	No		4	6.91	5	6.35	-0.57	-8.20%
282659082391104	ROMP TR 18-2 U AVON PARK	10745	2	0.34	No		7	0.59	5	0.62	0.03	5.51%
282613082381701	ROMP TR 18-3 L AVON PARK	10794	1	0.56	No		4	0.06	5	0.06	0.00	-4.36%
282613082381704	ROMP TR 18-3 U AVON PARK	10794	0	0.73	No		4	0.54	5	0.55	0.01	2.28%
283243082365701	ROMP TR 19-2 DEEP	479	0	0.66	No		6	6.85	5	6.82	-0.02	-0.36%
285112082354401	ROMP TR 21-2 DP	10730	0	0.25	No		6	8.80	5	8.90	0.10	1.08%
285234082341901	ROMP TR 21-3 AVON PA	412	0	0.13	No		6	7.92	5	8.36	0.45	5.63%
270919082234206	ROMP TR 5-2 OCALA	1	0	0.64	No		8	0.01	15	0.01	0.00	3.15%
272612082330101	ROMP TR 7-2 DEEP FL	11389	0	0.16	No		15	0.74	15	0.75	0.02	2.35%
272539082292001	ROMP TR 7-4 AP	10927	0	0.00	Yes	Increasing	15	0.41	15	0.54	0.13	32.39%
273458082324706	ROMP TR 8-1 OCALA	10919	0	0.39	No		15	0.22	15	0.23	0.01	3.40%
273458082324703	ROMP TR 8-1 U AV PK	10920	0	0.00	No		14	1.93	15	2.18	0.25	12.84%
274554082233801	ROMP TR 9-2 AP	10898	0	0.00	No		15	2.13	15	2.88	0.76	35.50%
274554082233802	ROMP TR 9-2 OCALA	10899	0	0.00	Yes	Increasing	15	0.94	15	1.36	0.41	44.06%
274428082251503	ROMP TR 9-3 AP	10909	1	0.00	Yes	Increasing	17	2.14	15	2.88	0.74	34.70%
274552082220501	ROMP TR AB-3	11727	0	0.00	Yes	Increasing	23	1.29	16	3.49	2.19	169.75%
272049082324504	ROMP TR SA-1 AVON PARK	12063	0	0.73	No		7	0.38	15	0.38	0.00	-0.97%
270442081494301	ROPER GROVES WELL	866	0	0.00	Yes	Increasing	6	1.71	10	2.06	0.35	20.15%
280053082350202	SHELDON RD DEEP	146	0	0.29	No		6	5.44	12	5.66	0.21	3.93%
284457082330302	SUGARMILL MZ1 DUAL DEEP	460	0	0.79	No		6	3.91	5	4.06	0.15	3.90%
284457082330301	SUGARMILL MZ1 DUAL SH	460	1	0.08	No		6	0.61	5	0.70	0.10	15.87%
280907082424801	TARPON ROAD DEEP WELL	748	0	0.79	No		6	9.04	5	9.08	0.04	0.47%
275215082201901	US PHOSPHORIC	703	0	0.48	No		6	4.25	6	4.31	0.06	1.30%
290107082400501	USGS WELL CE 88	10728	0	1.00	No		6	0.51	5	0.57	0.06	11.98%
280155082340001	WCRWSA RMP 13PZ	11724	0	0.82	No		6	3.17	12	3.20	0.03	0.94%
283527082365701	WEEKI WELL 2	546	0	0.00	Yes	Increasing	6	4.95	5	5.50	0.54	10.91%
283529082355801	WEEKI WELL 3	206	0	0.93	No		6	2.31	5	2.32	0.01	0.50%

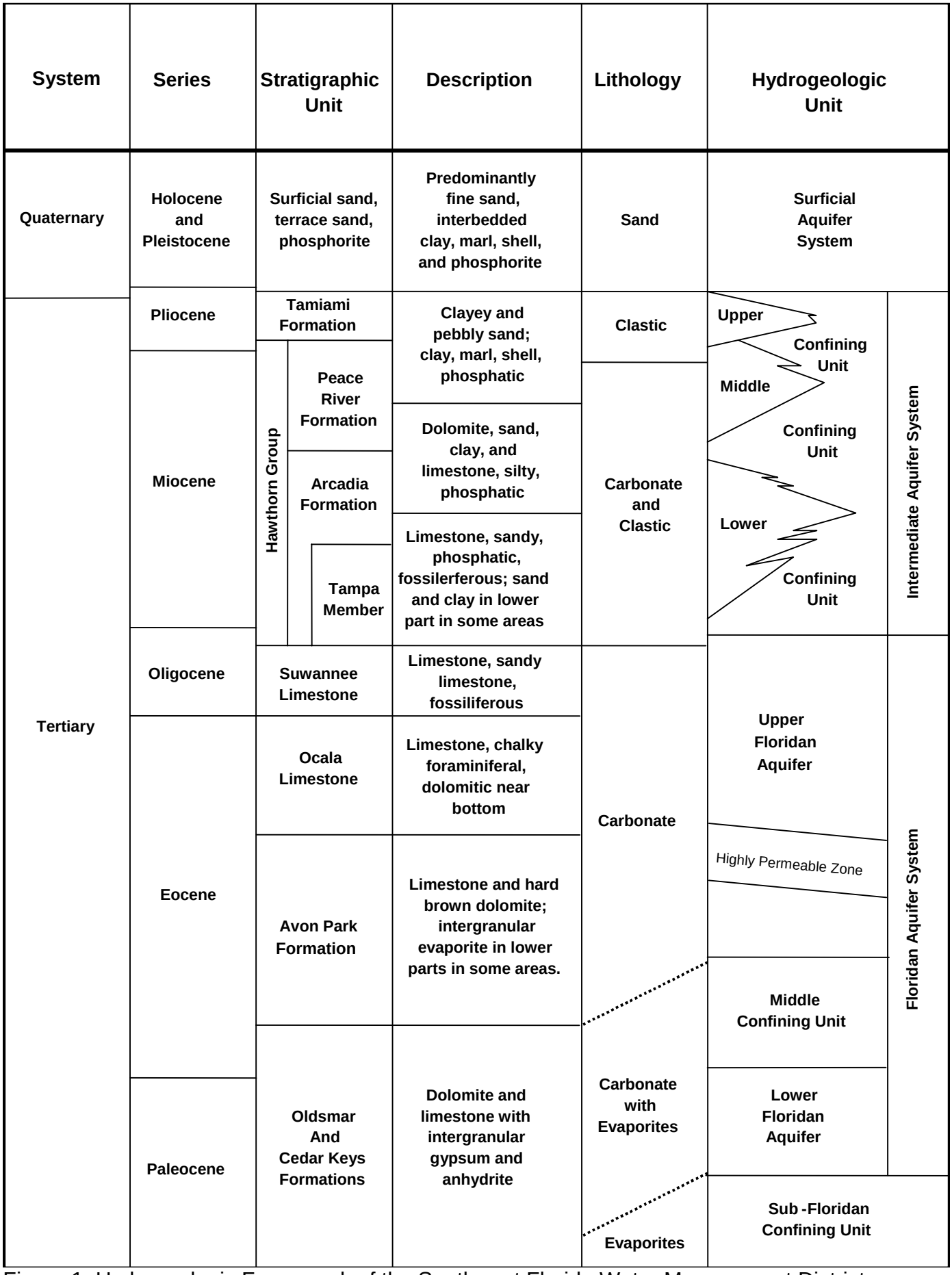


Figure 1. Hydrogeologic Framework of the Southwest Florida Water Management District (modified from Barr, 1996, Metz & Brendle, 1996, and Liauw-a-pau, 1999)

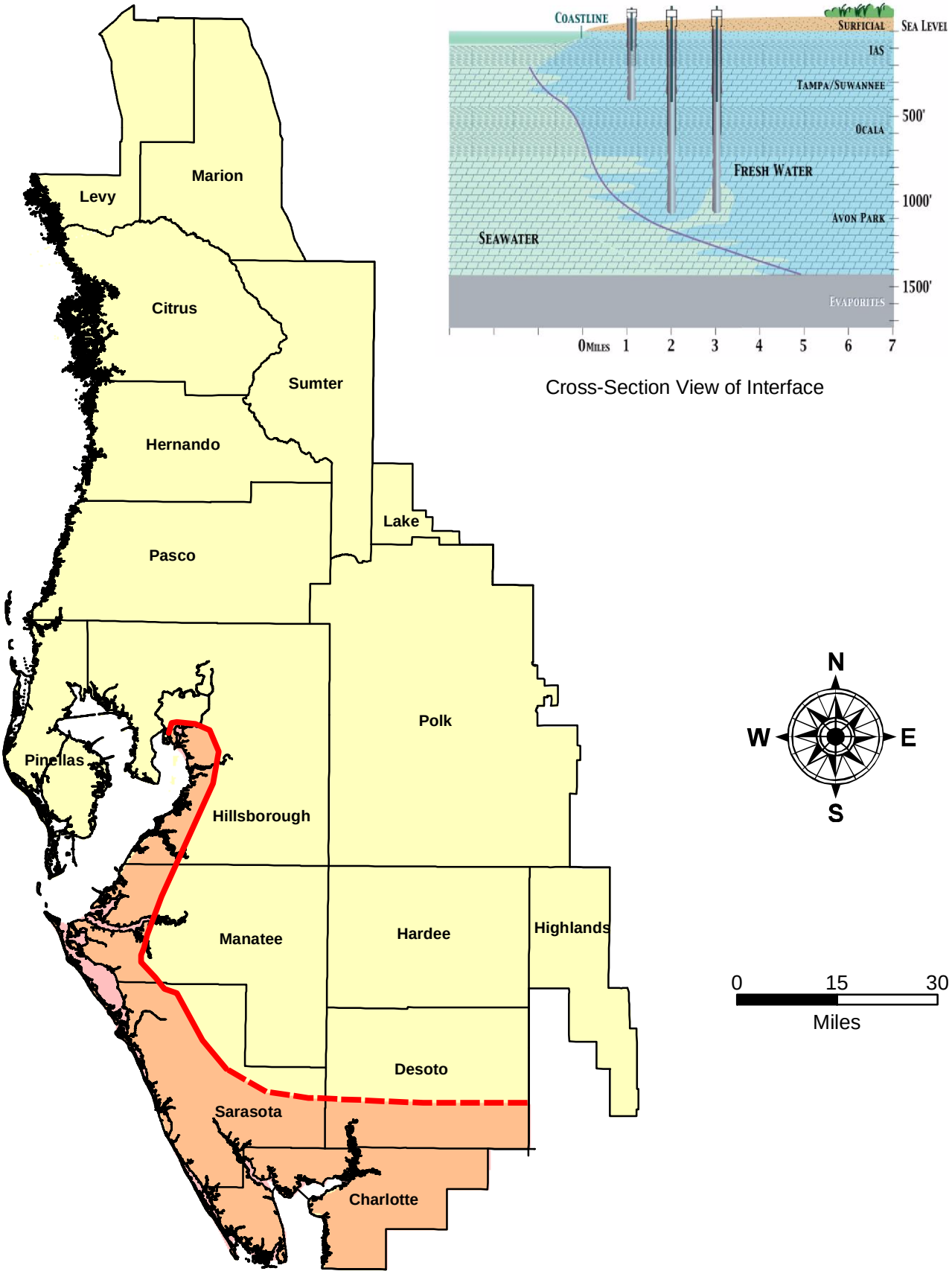


Figure 2. Extent of Salt-Water/Fresh-Water Interface within the "Highly Permeable" Zone of the Upper Floridan aquifer (modified from SWFWMD, 2000).

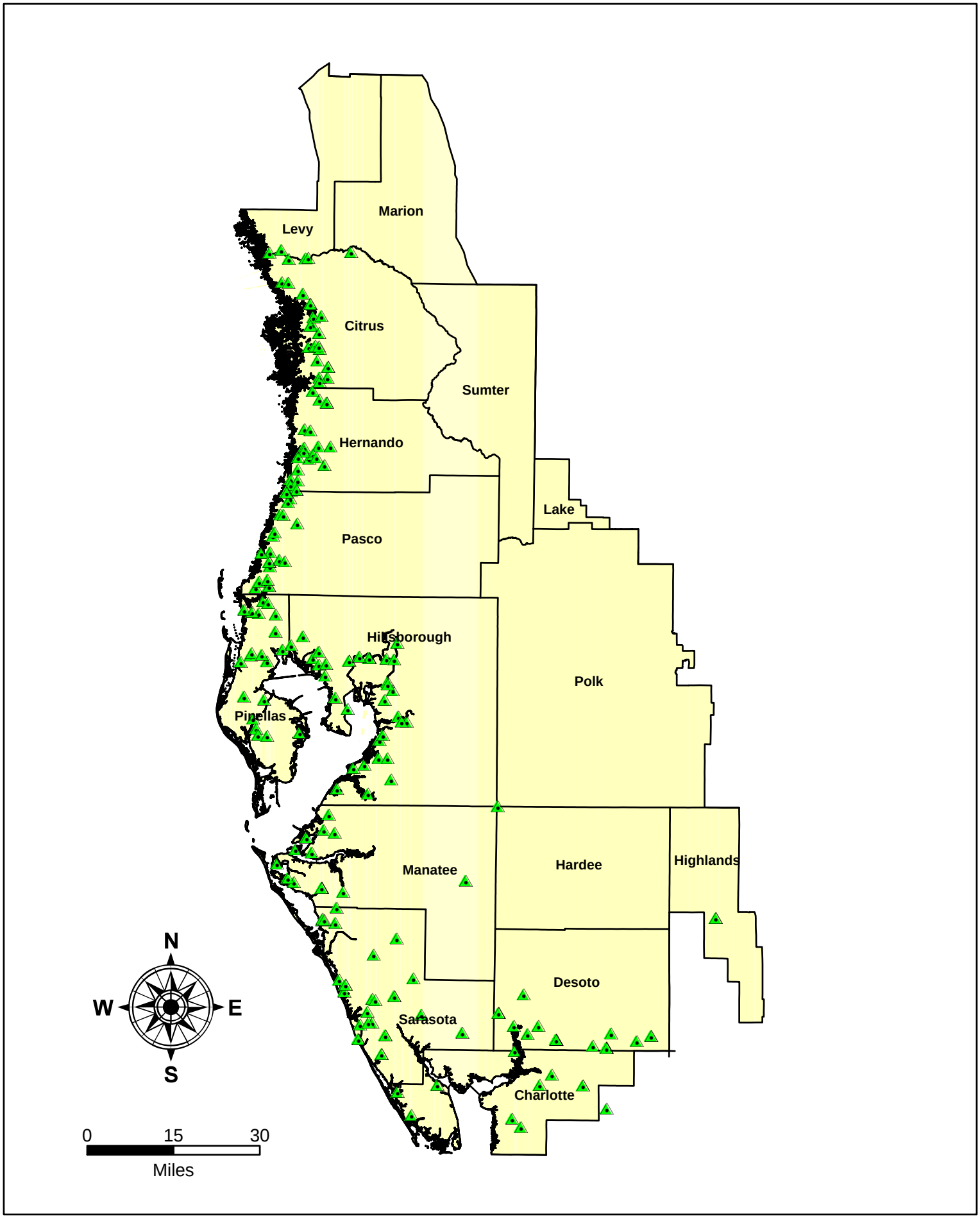


Figure 3. Location of Coastal Ground-Water Quality Monitoring Network Wells.

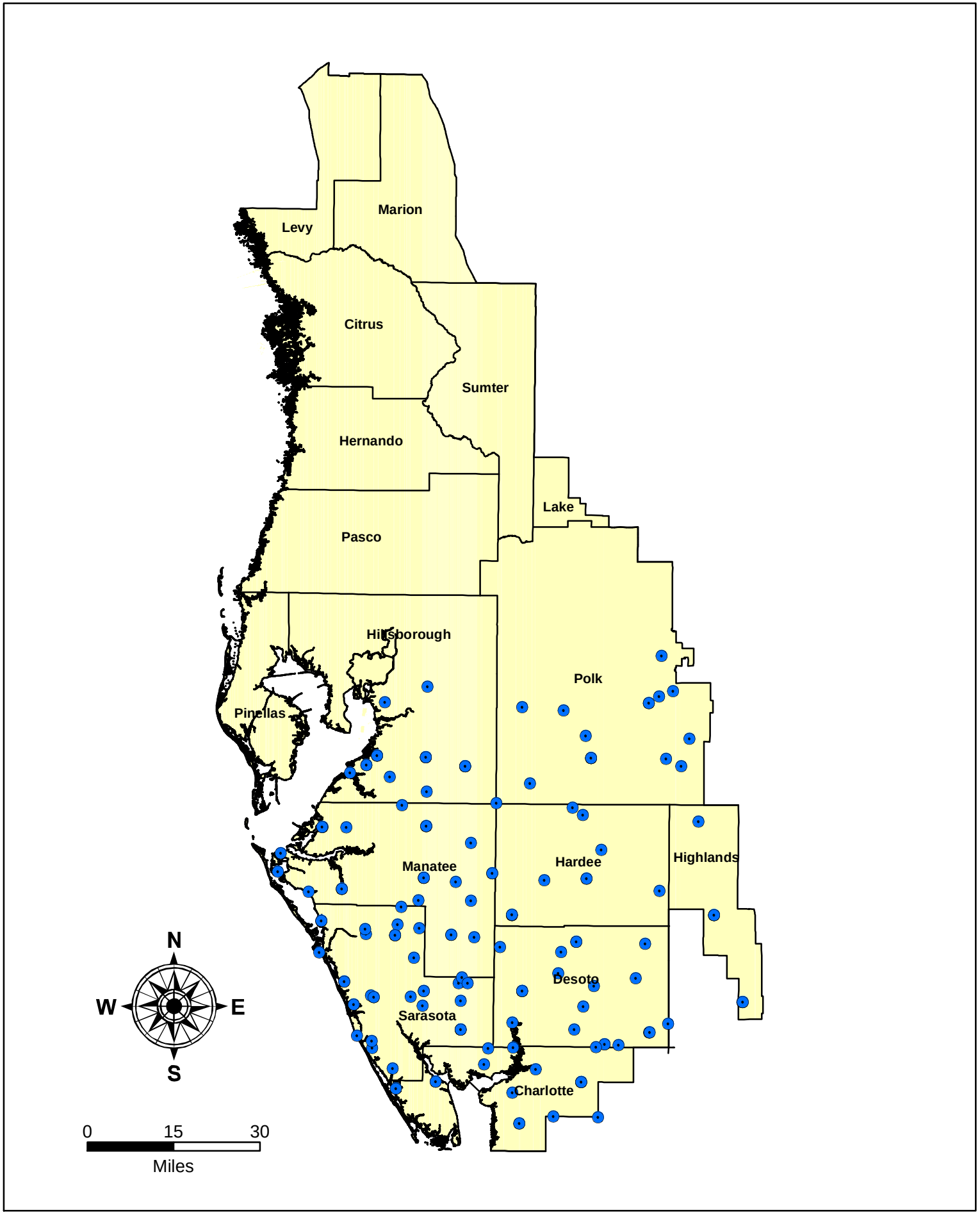


Figure 4. Location of Water-Use Permit Network Wells.

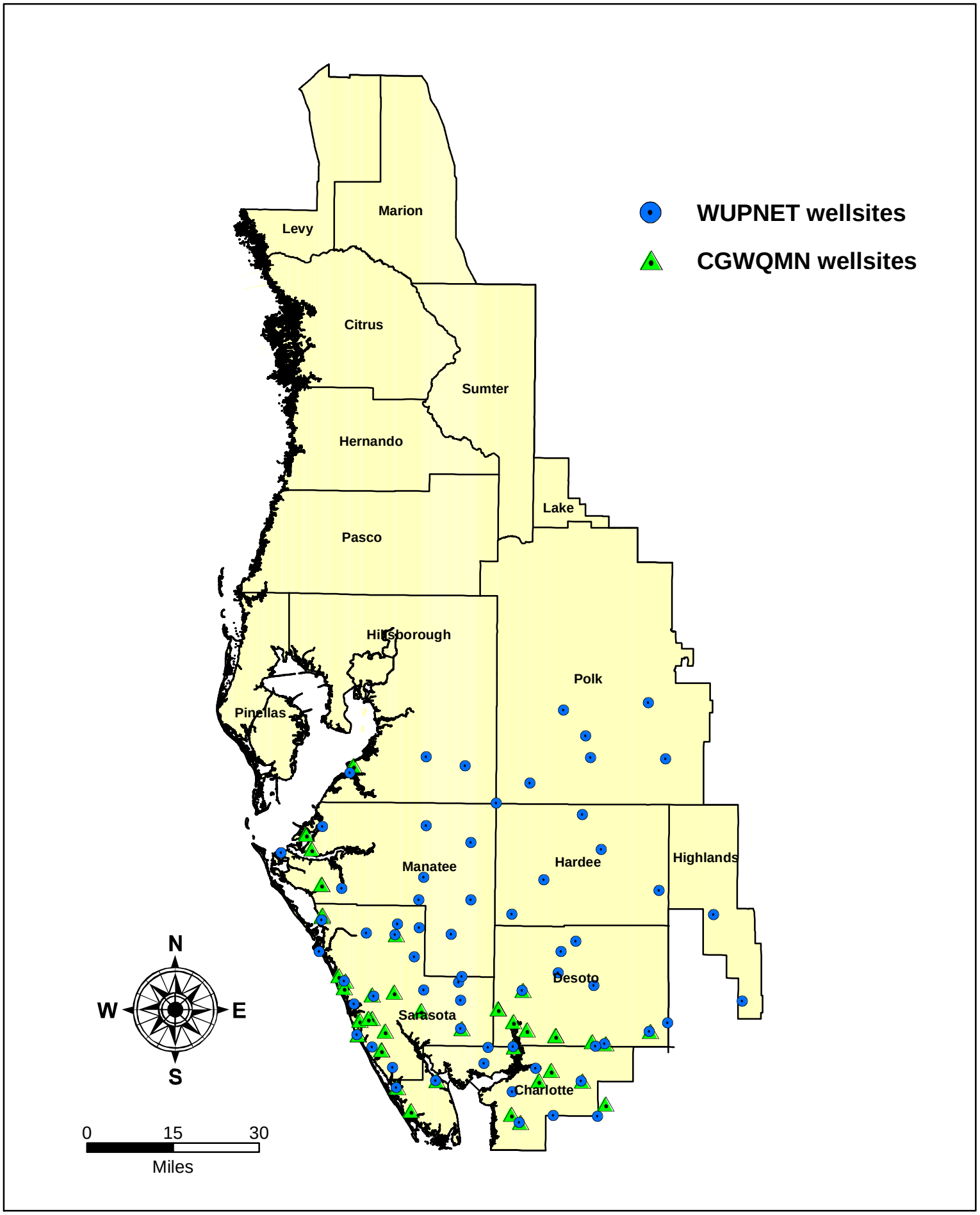


Figure 5. Location of Wells in the Intermediate Aquifer System.

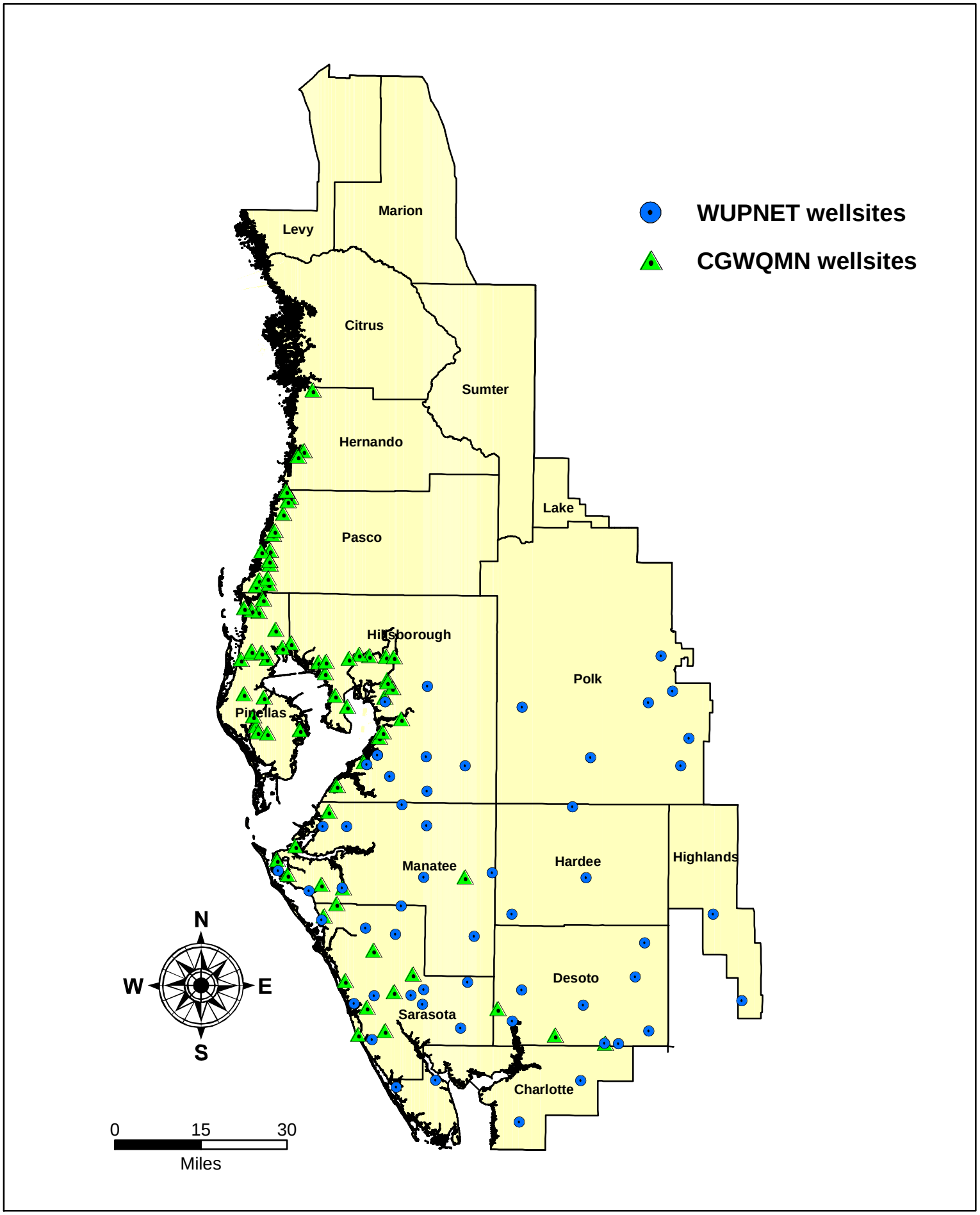


Figure 6. Location of Wells in the Tampa/Suwannee Zone of the Upper Floridan Aquifer.

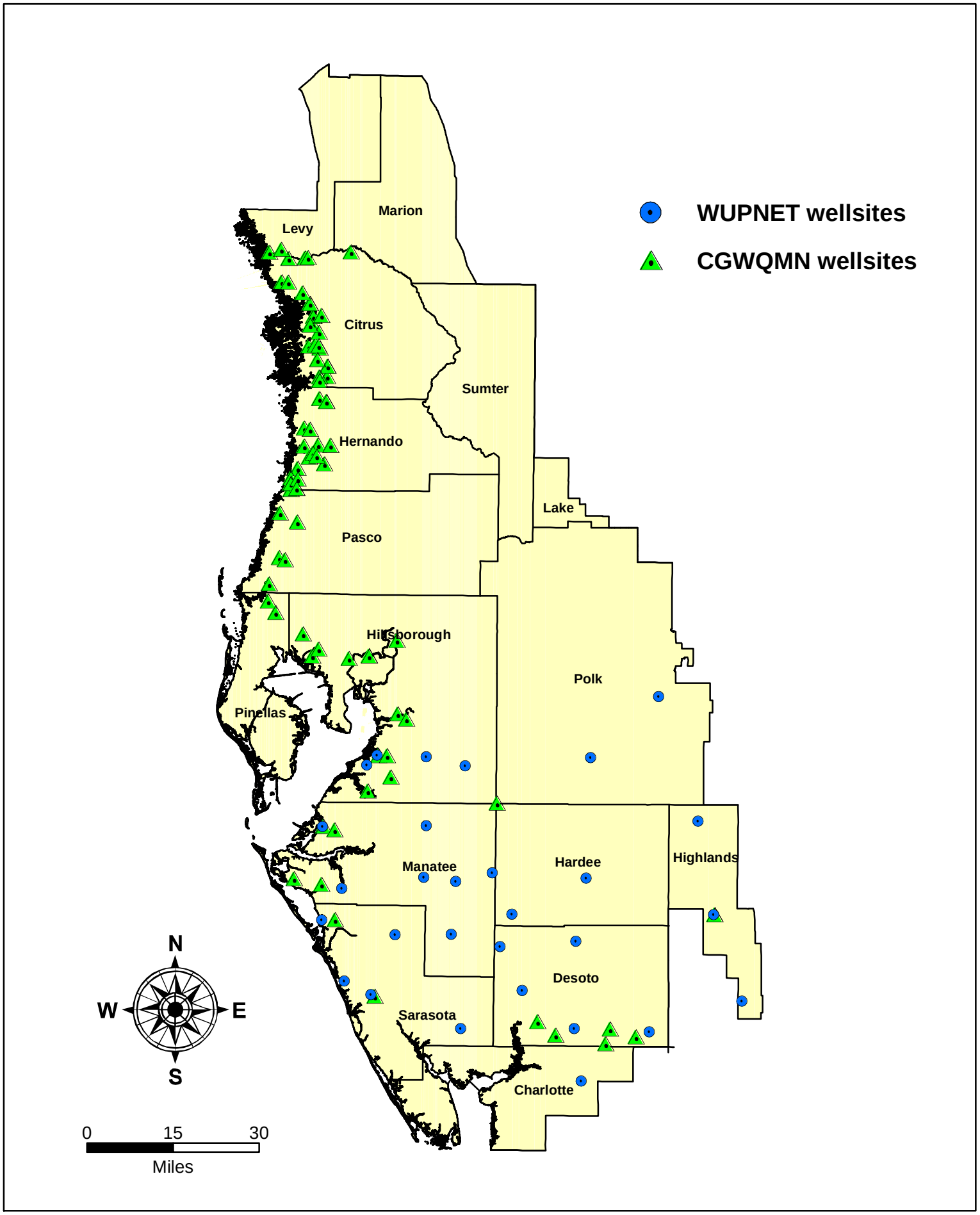


Figure 7. Location of Wells in the Ocala/Avon Park Zone of the Upper Floridan Aquifer.

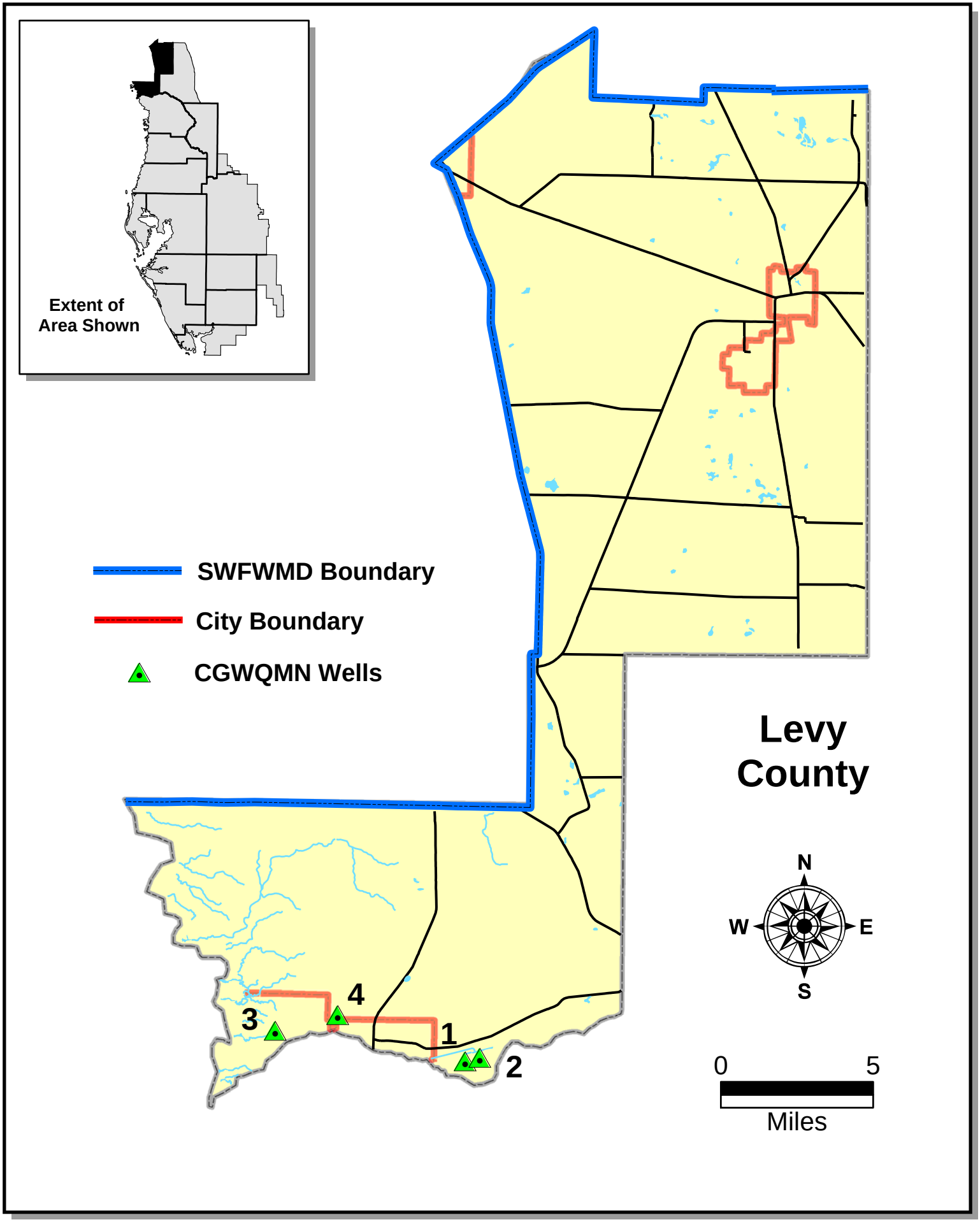
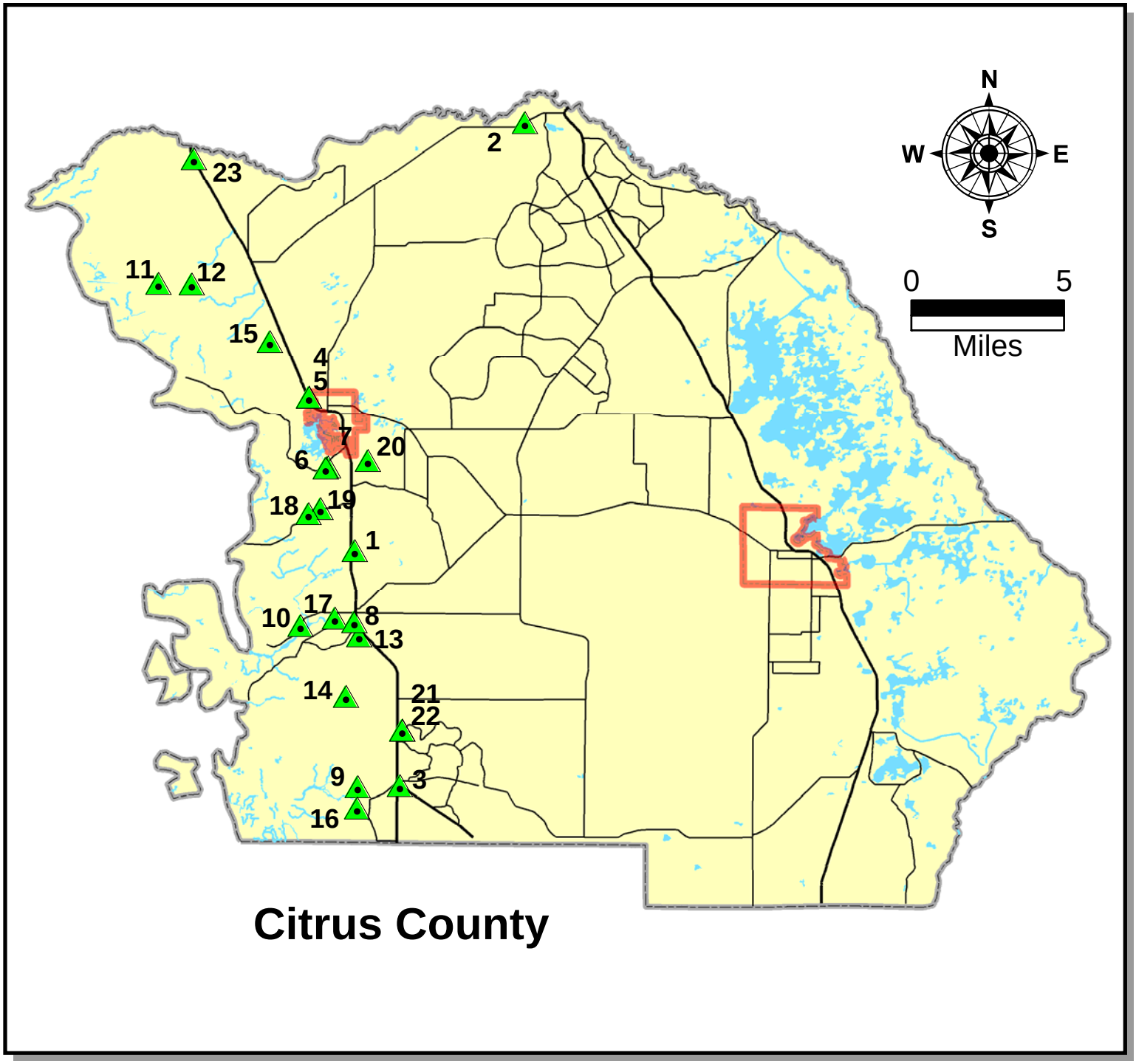


Figure 8. Levy County Well Locations



City Boundary

CGWQMN Wells

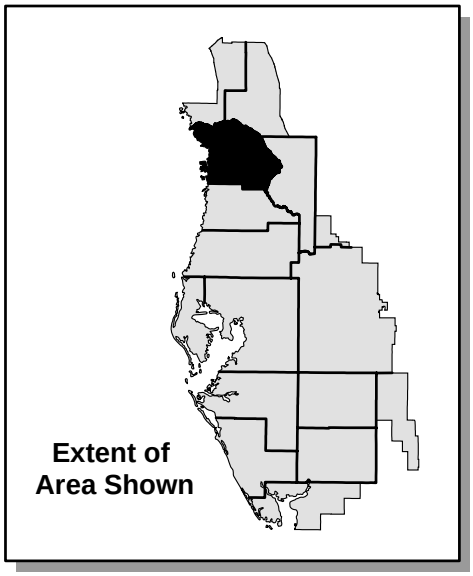


Figure 9. Citrus County Well Locations

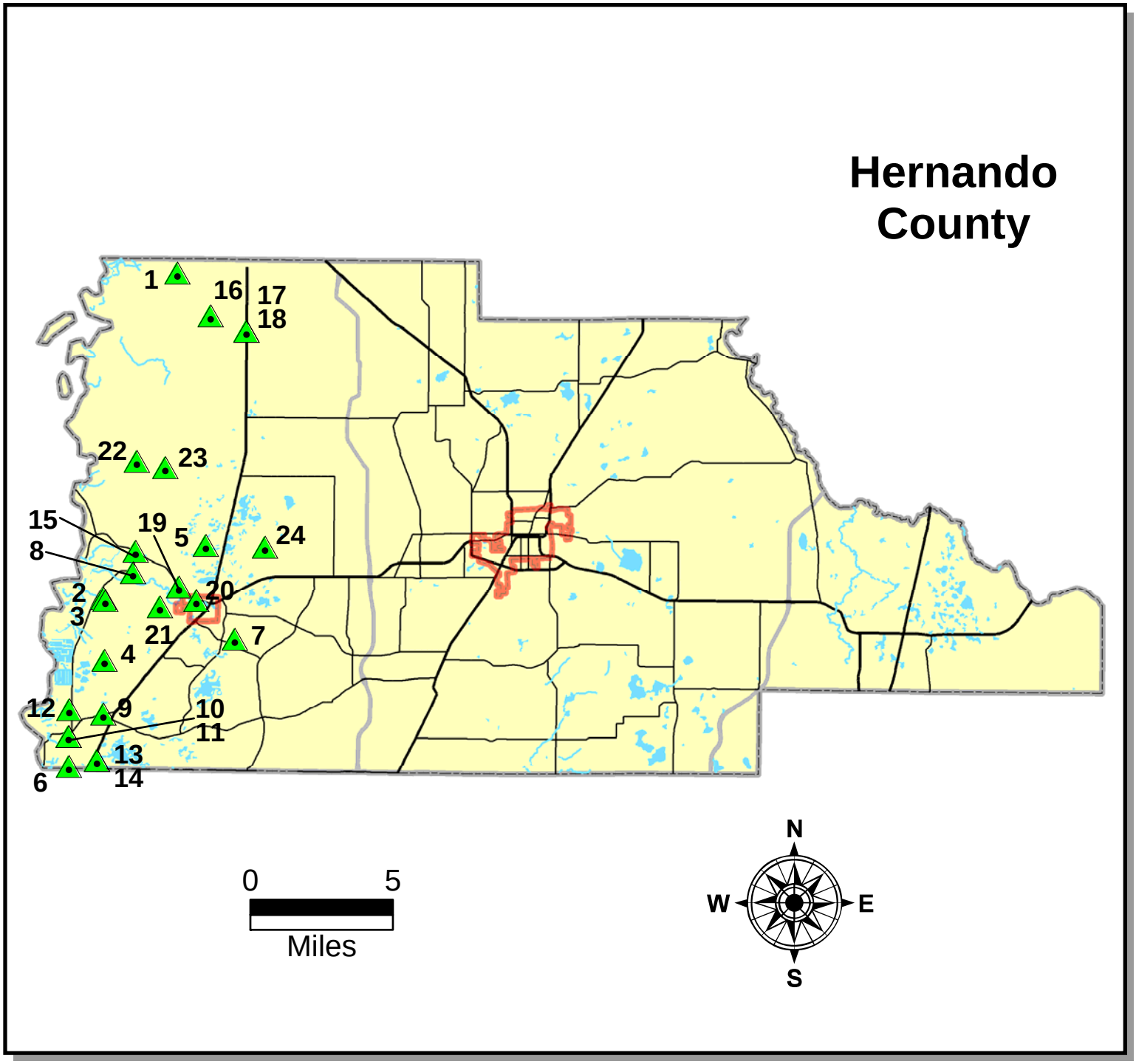
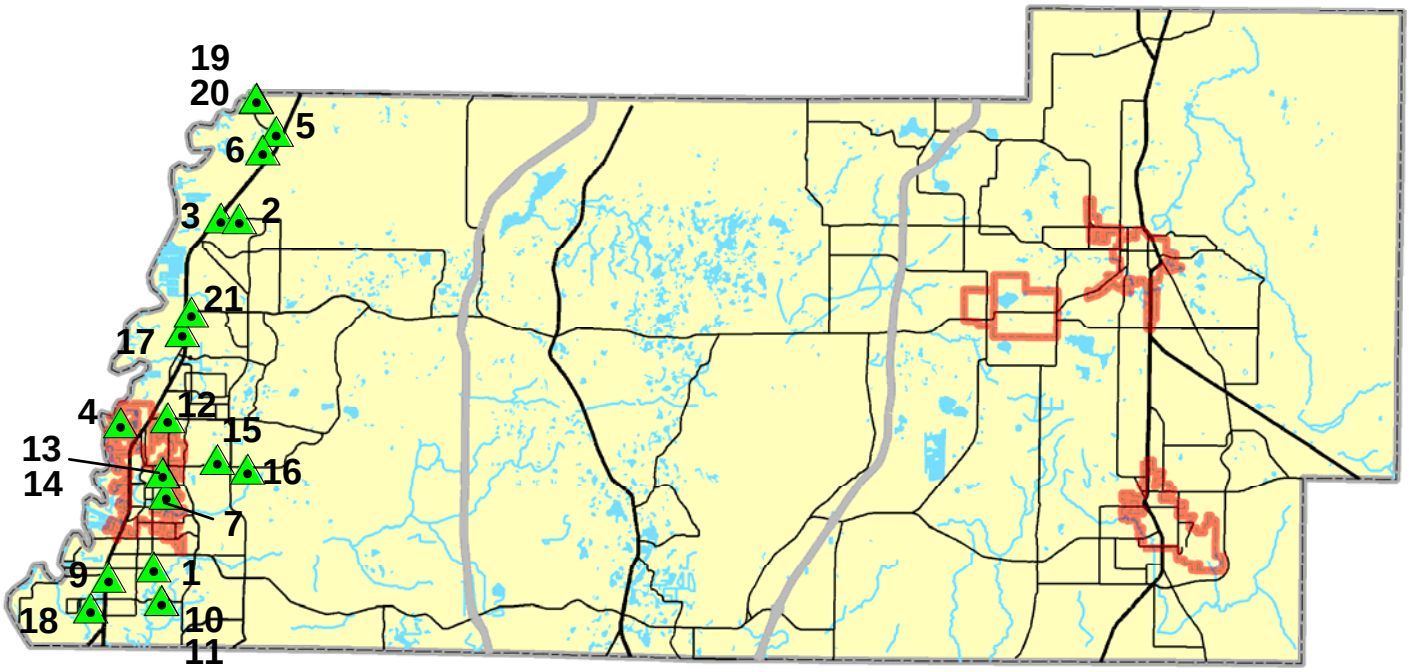


Figure 10. Hernando County Well Locations



Pasco County

0 5
Miles

N
W E
S

City Boundary

CGWQMN Wells

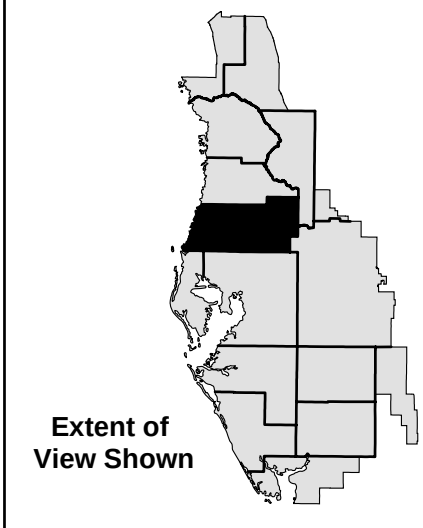


Figure 11. Pasco County Well Locations

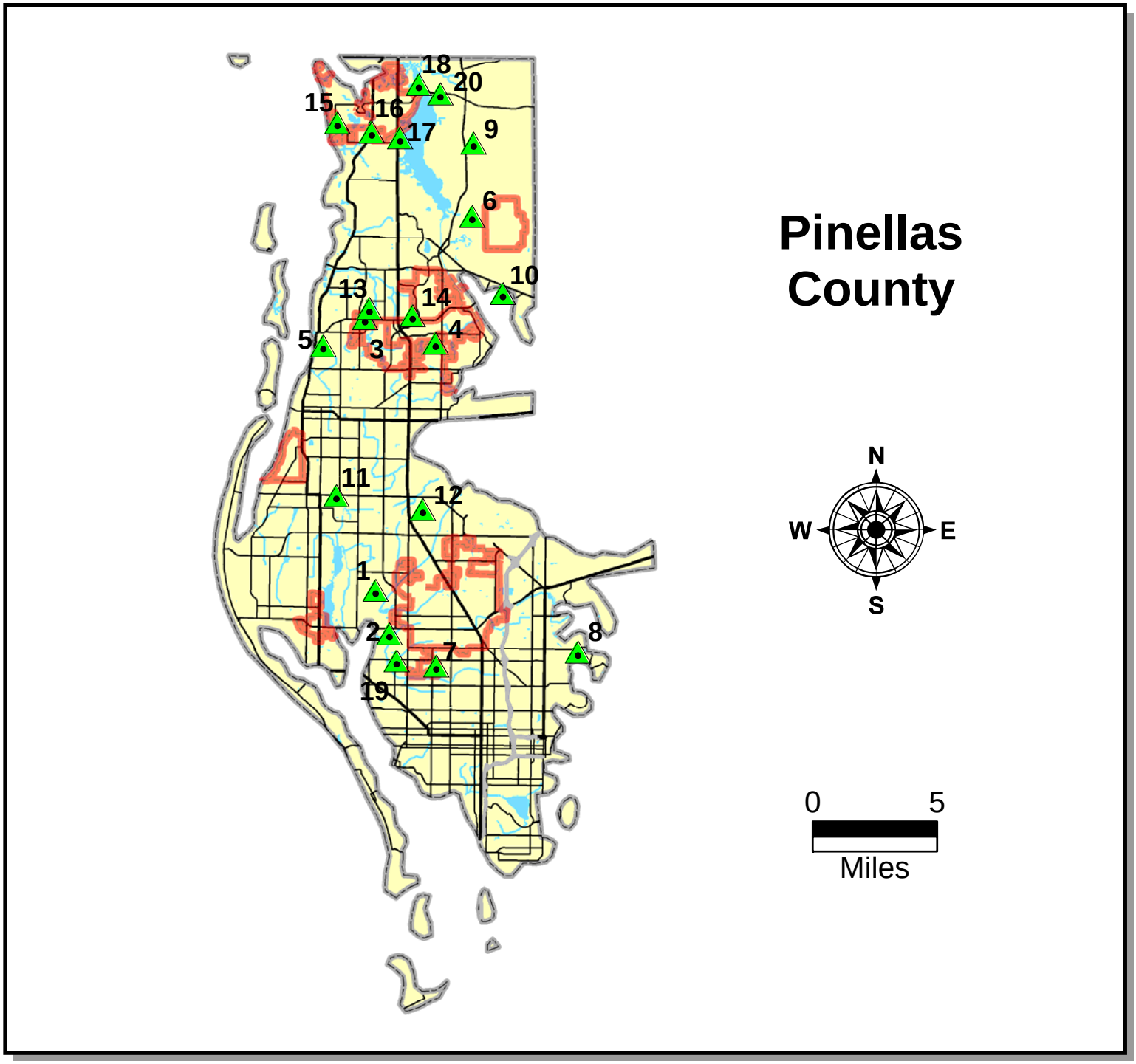


Figure 12. Pinellas County Well Locations

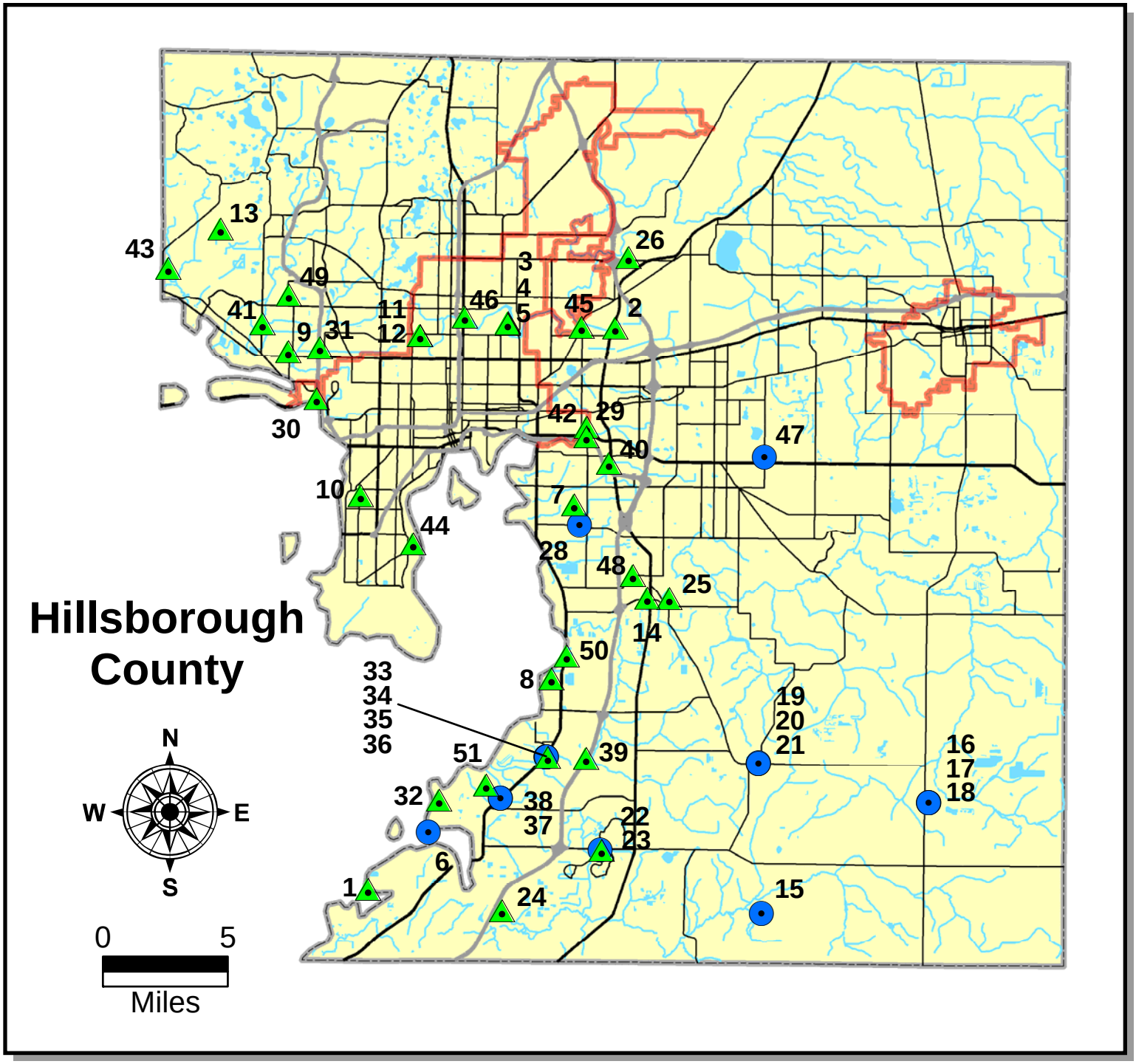


Figure 13. Hillsborough County Well Locations

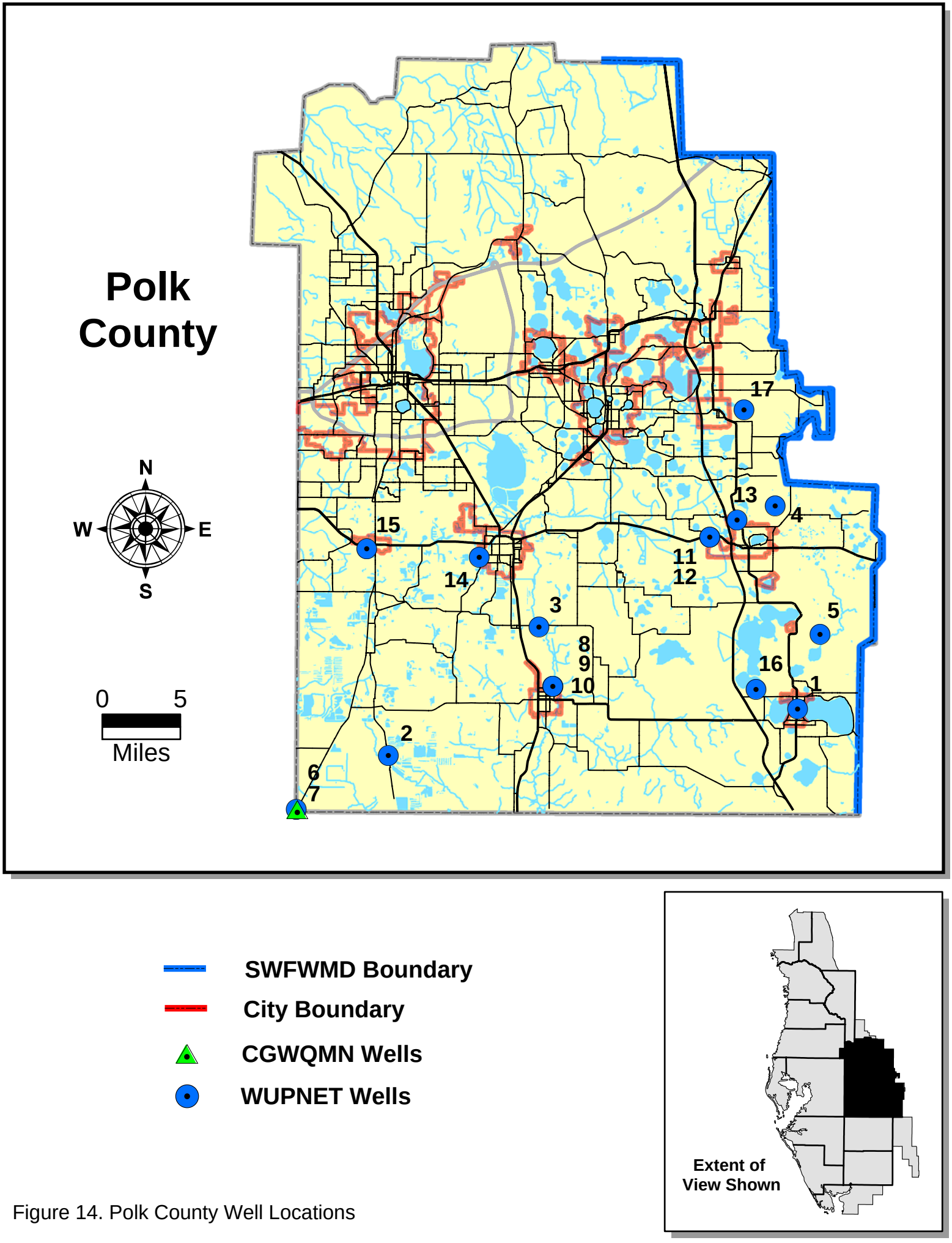


Figure 14. Polk County Well Locations

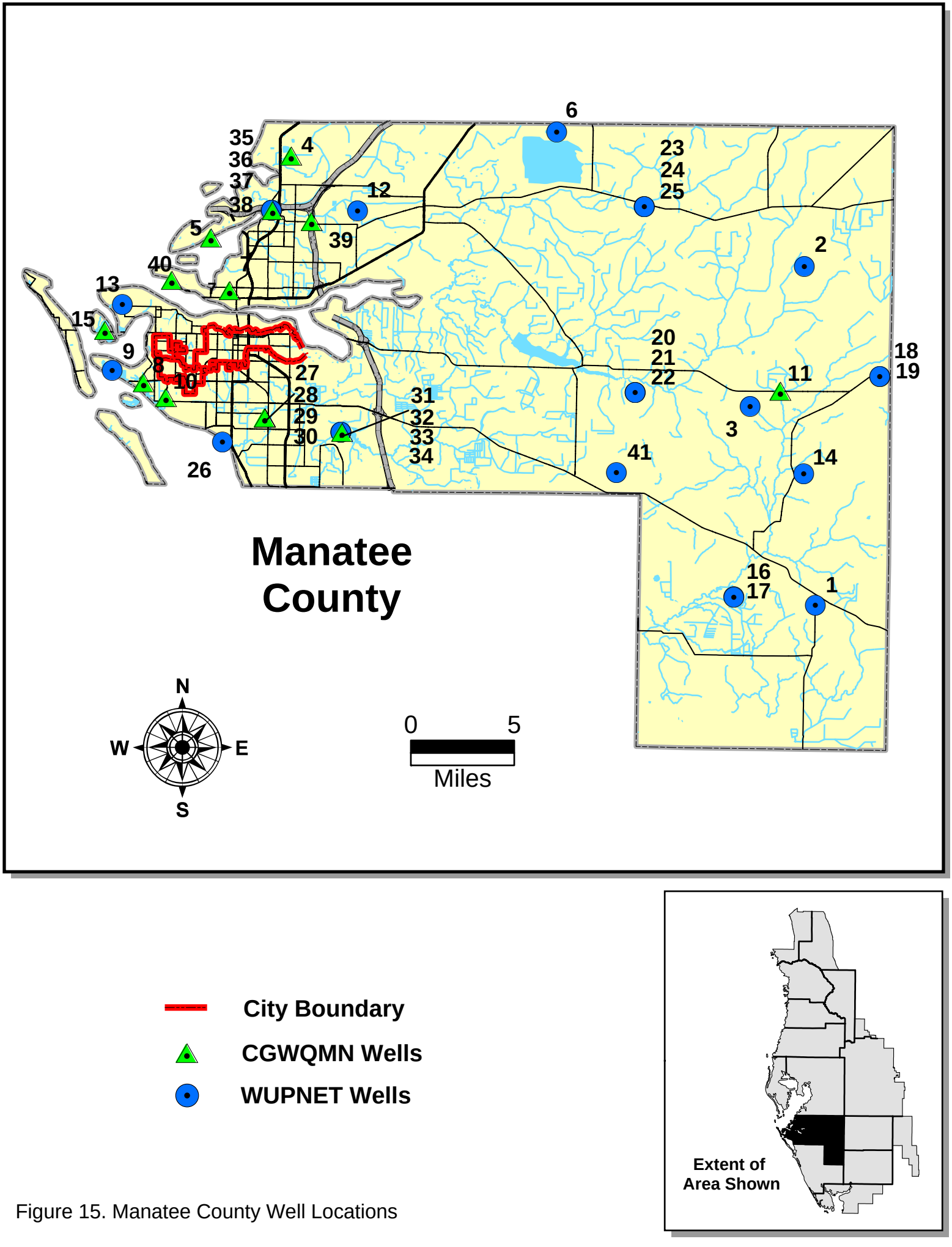


Figure 15. Manatee County Well Locations

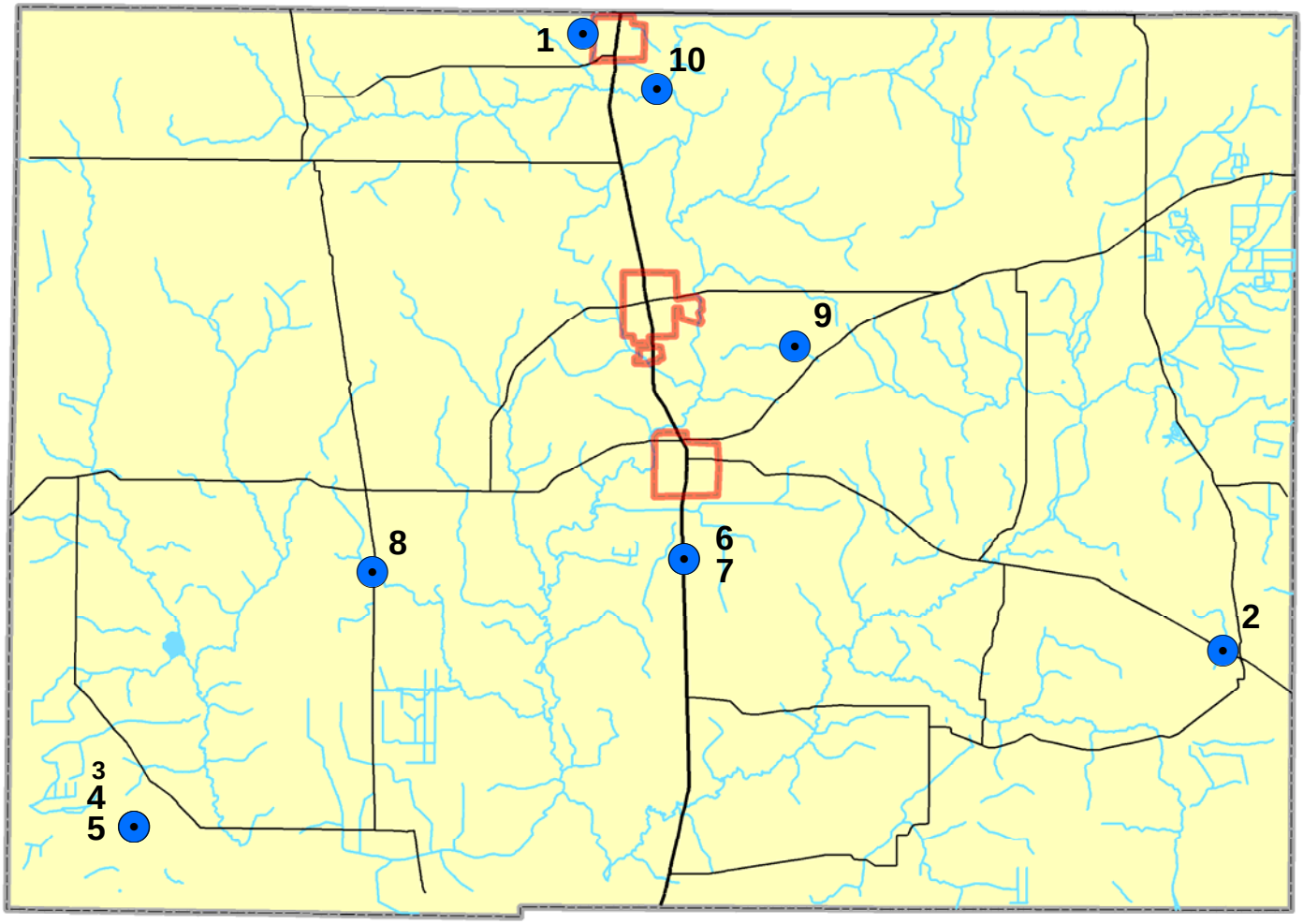


Figure 16. Hardee County Well Locations

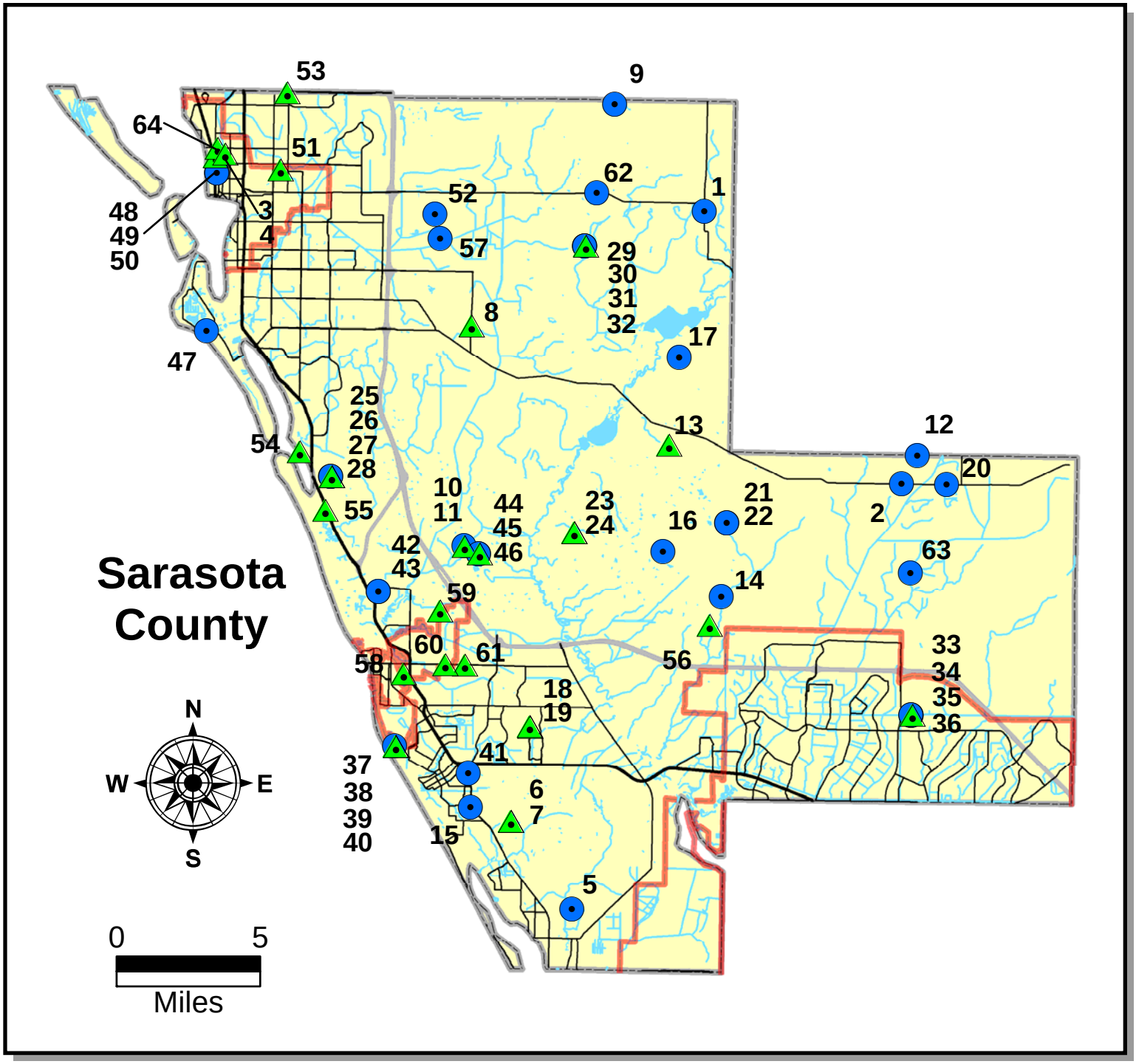
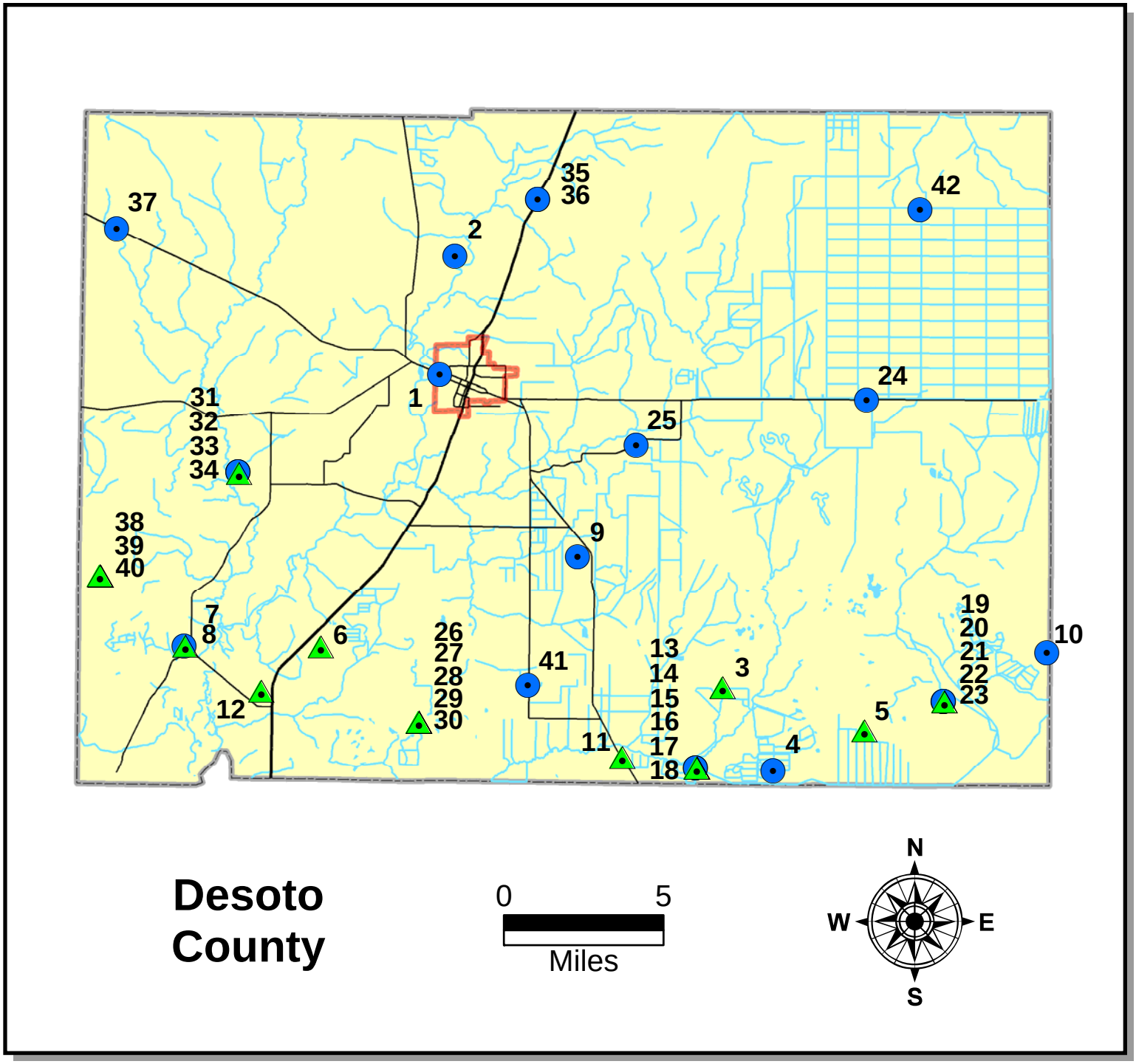


Figure 17. Sarasota County Well Locations



City Boundary

CGWQMN Wells

WUPNET Wells

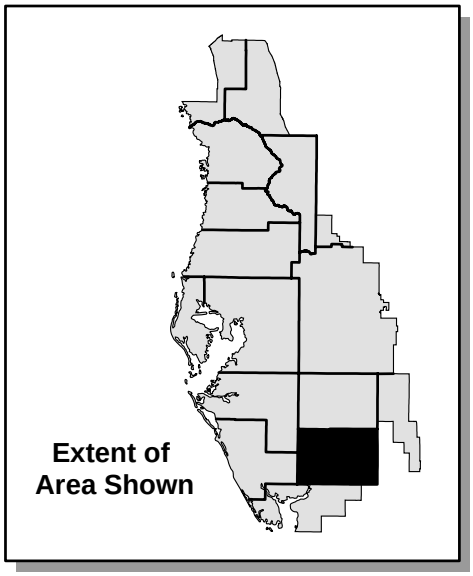
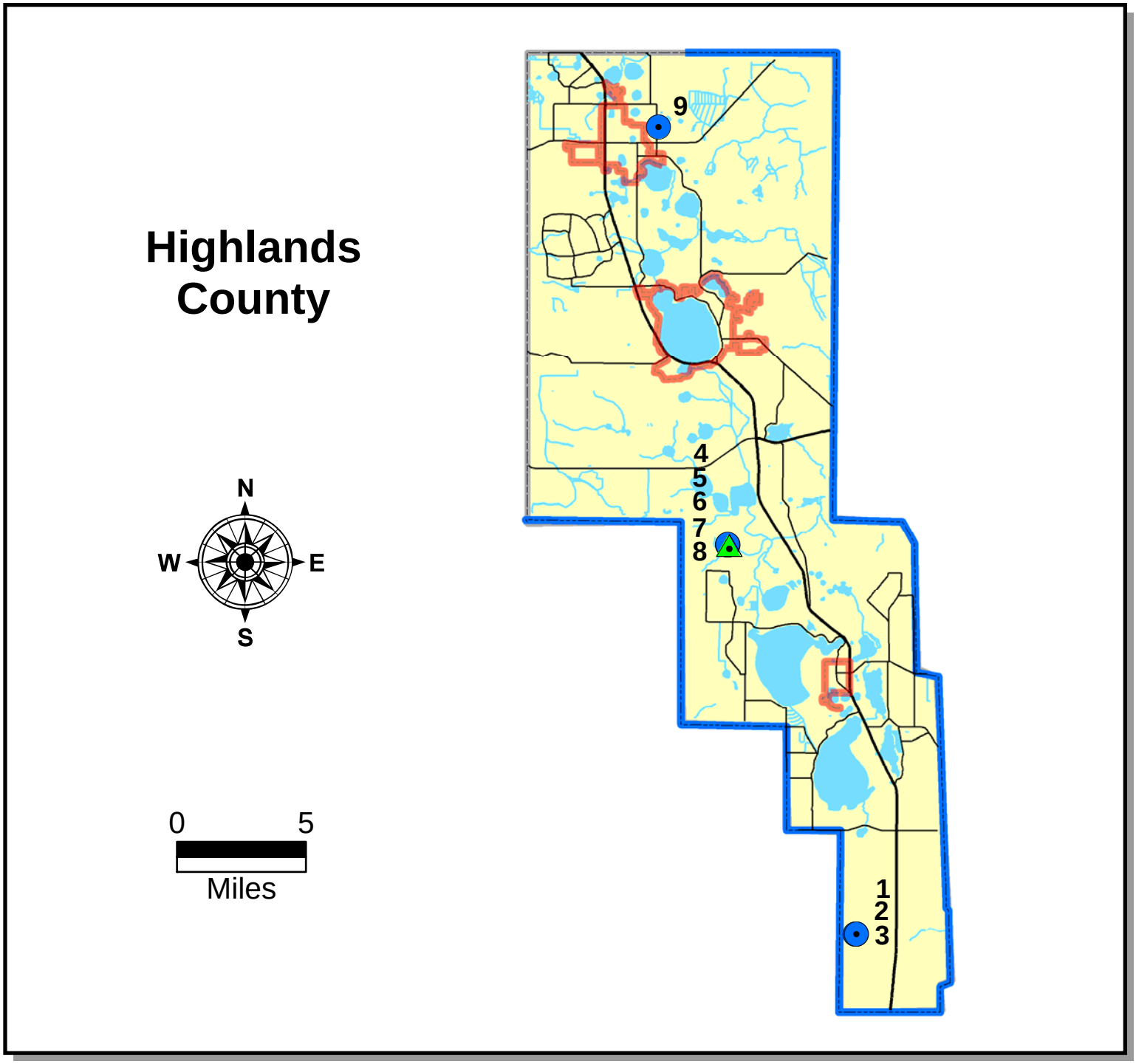


Figure 18. Desoto County Well Locations



SWFWMD Boundary

City Boundary

CGWQMN Wells

WUPNET Wells

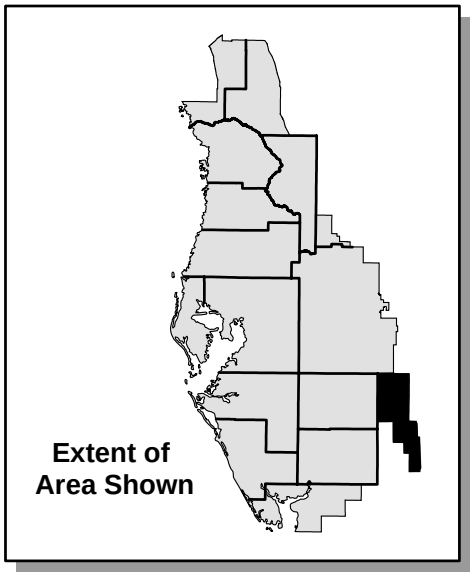
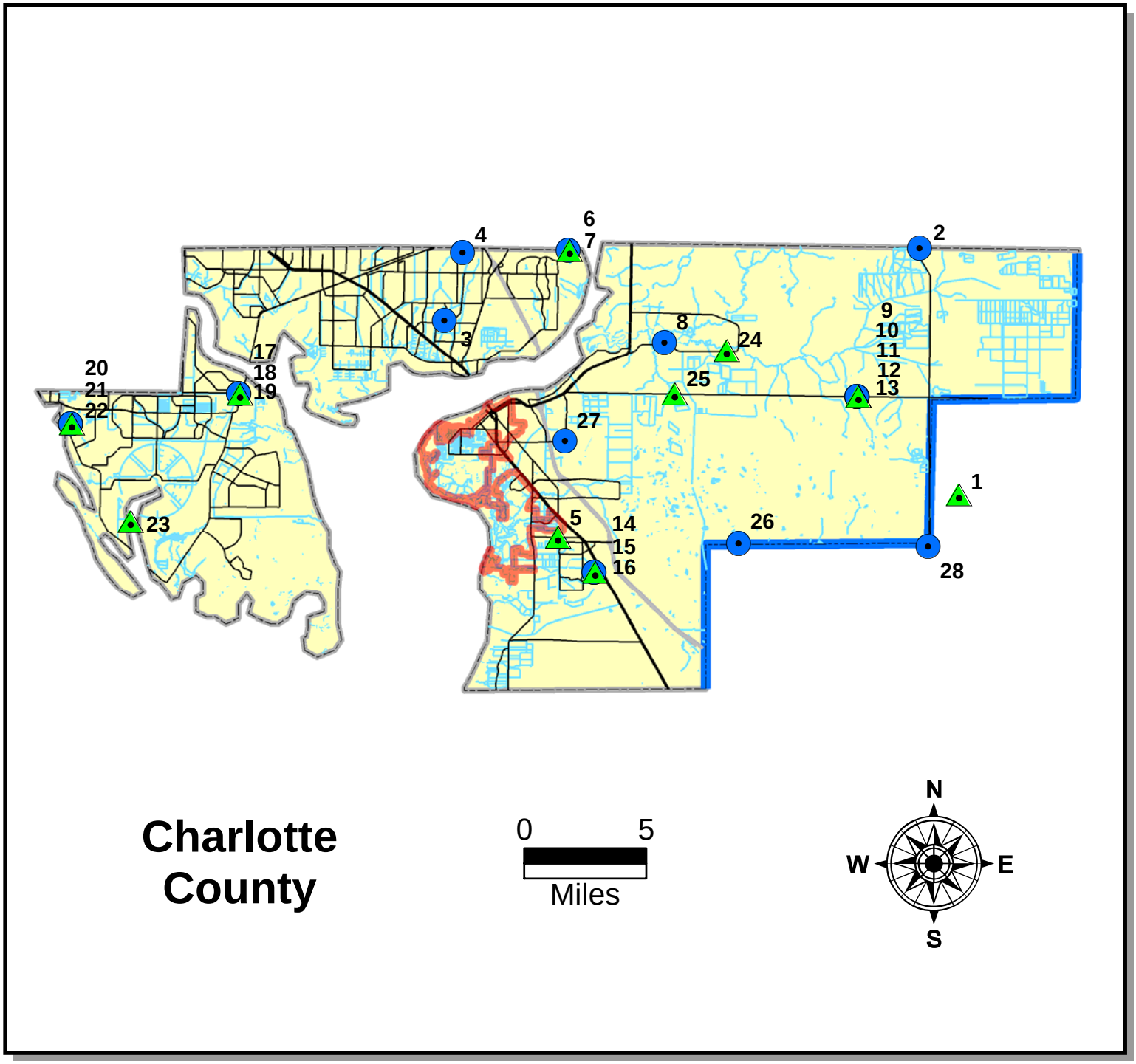


Figure 19. Highlands County Well Locations



SWFWMD Boundary

City Boundary

CGWQMN Wells

WUPNET Wells

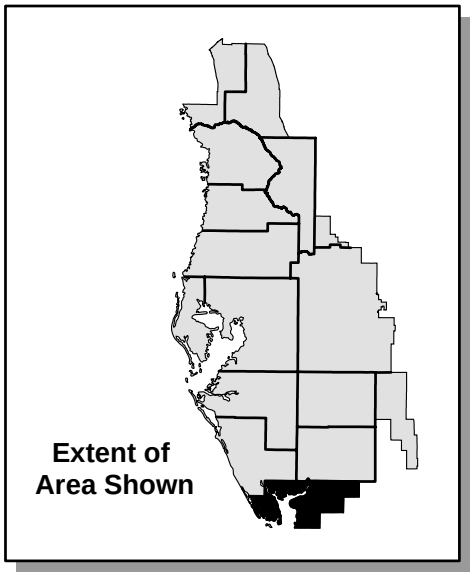


Figure 20. Charlotte County Well Locations

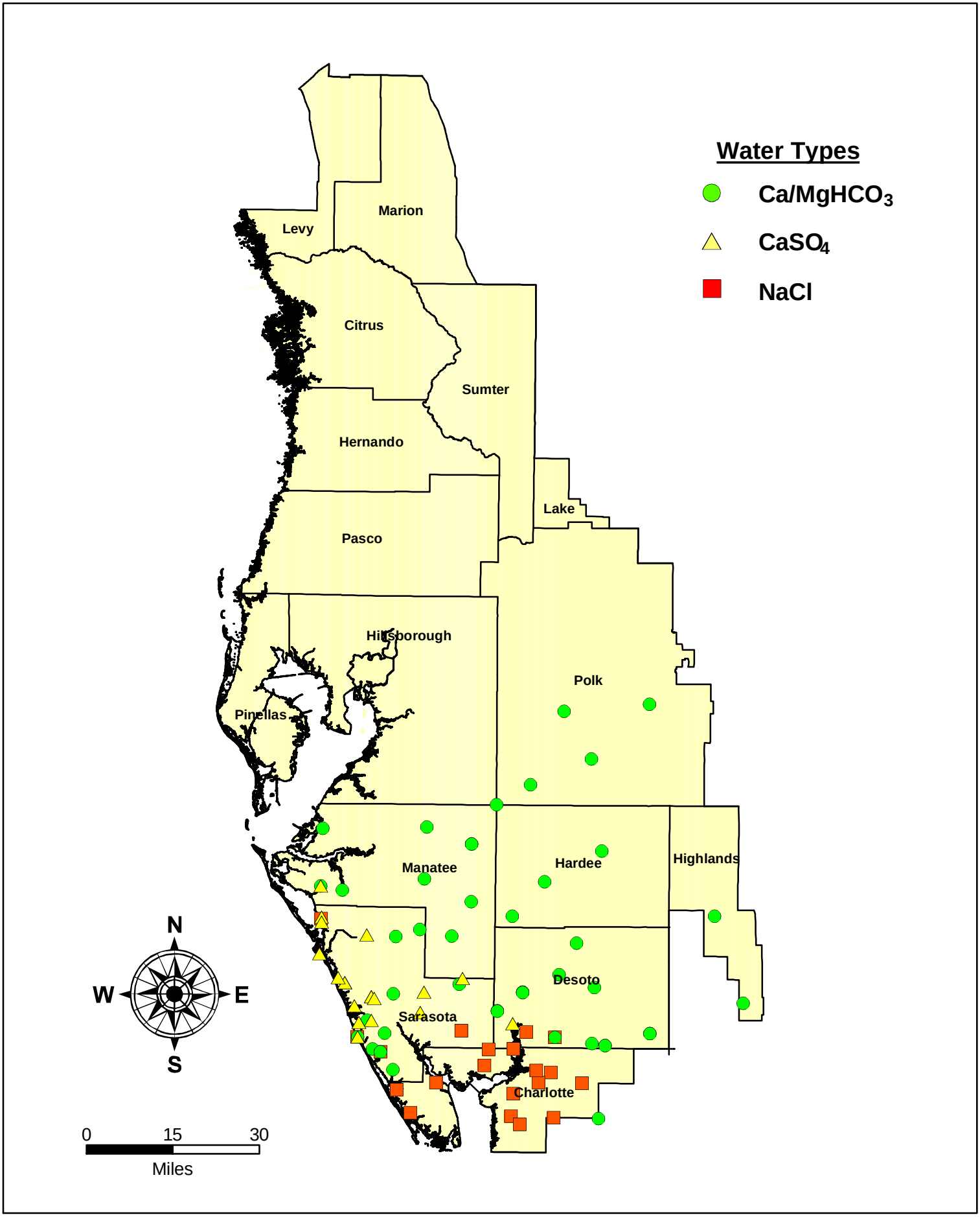


Figure 21. Water Types in the Intermediate Aquifer System.

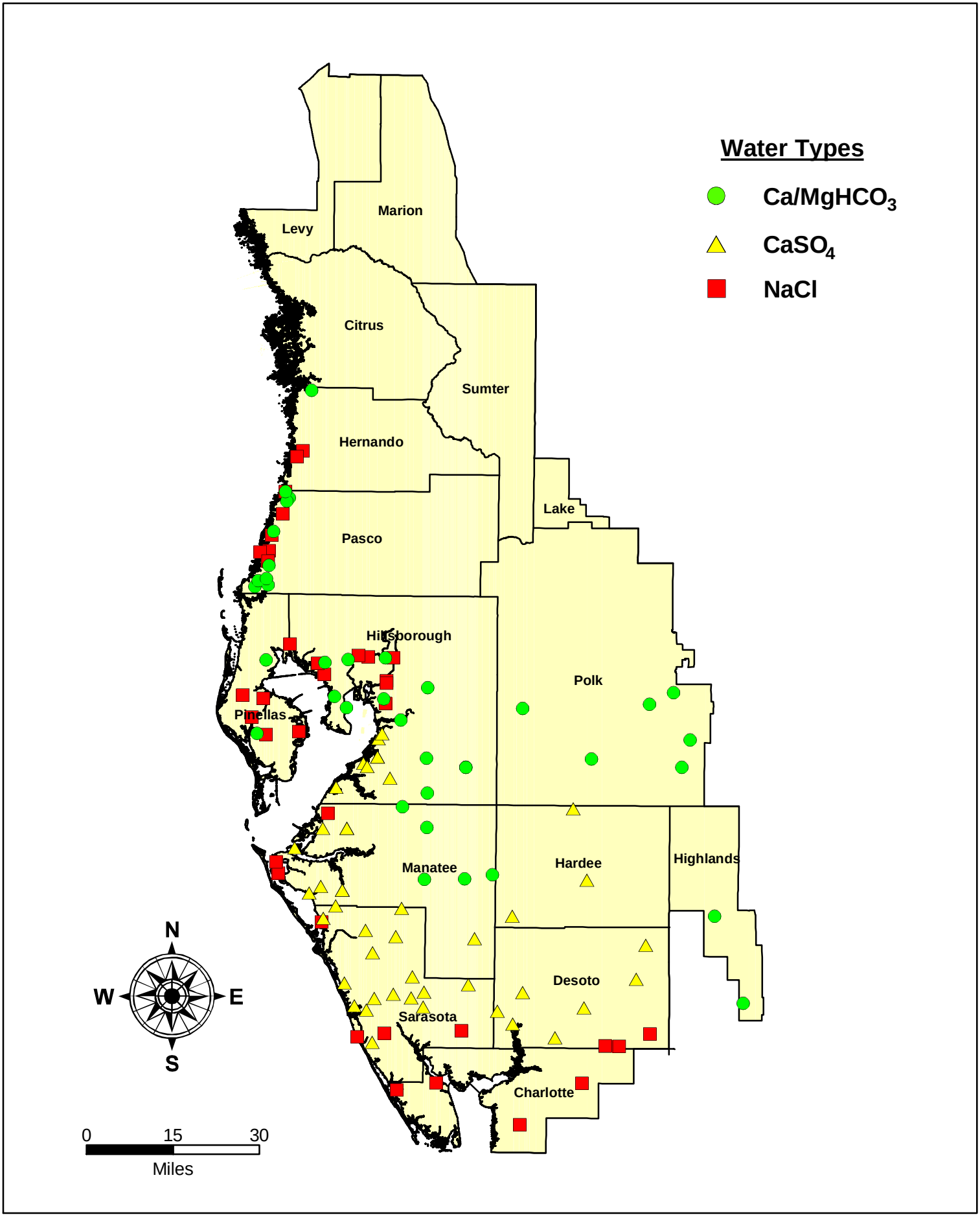


Figure 22. Water Types in the Tampa/Suwannee Zone of the Upper Floridan Aquifer

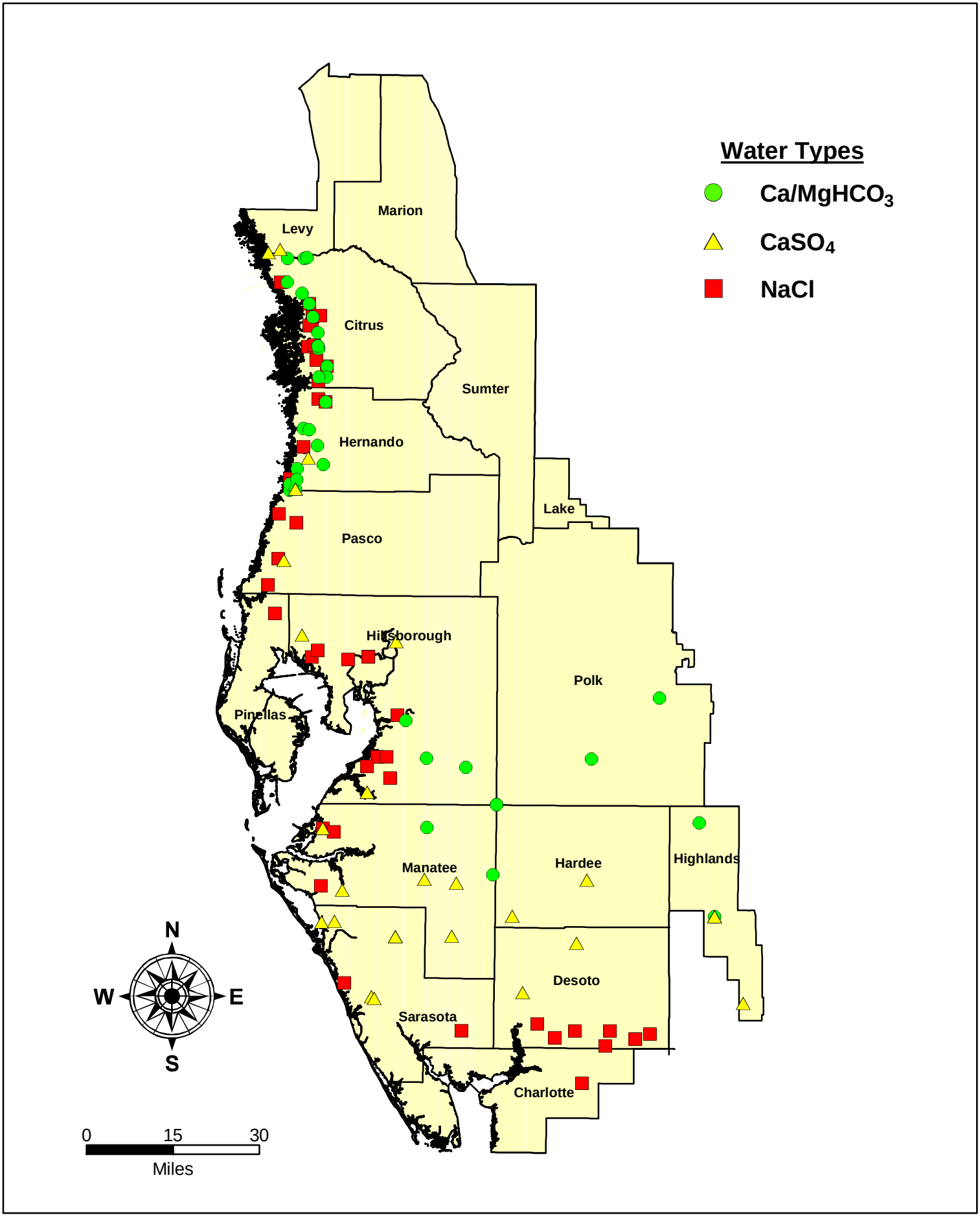


Figure 23. Water Types in the Ocala/Avon Park Zone of the Upper Floridan Aquifer

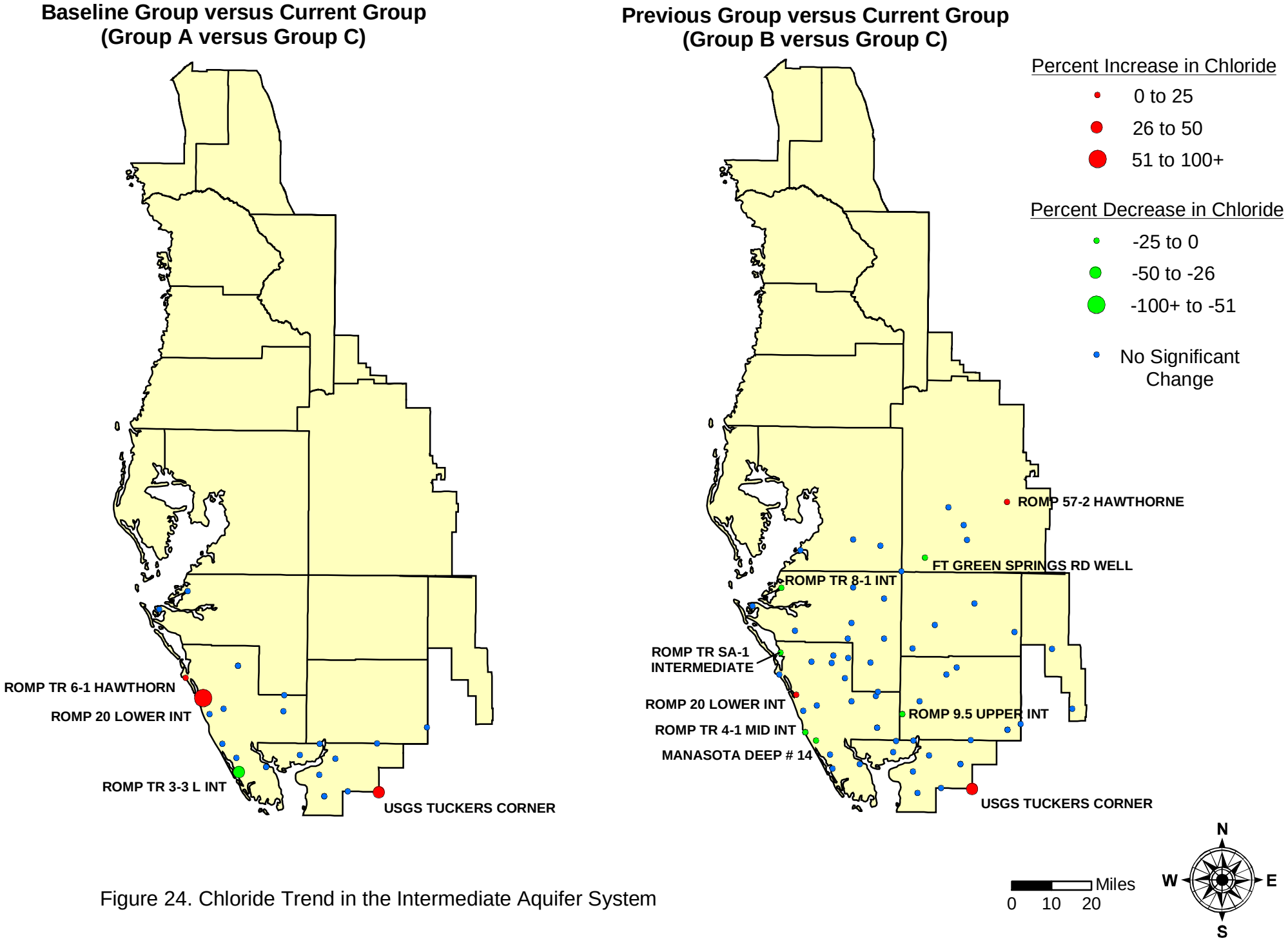


Figure 24. Chloride Trend in the Intermediate Aquifer System

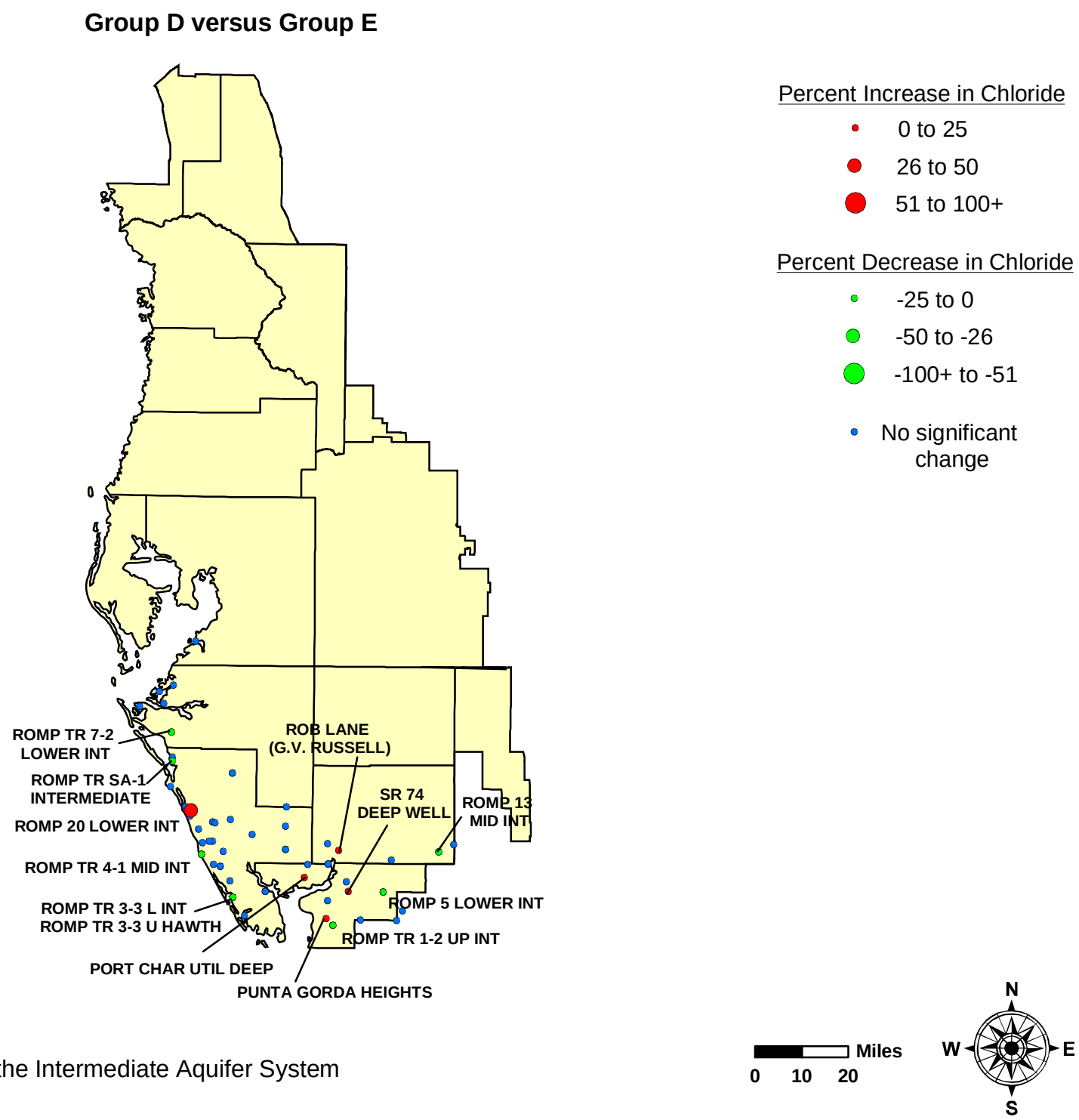


Figure 25. Chloride Trend in the Intermediate Aquifer System

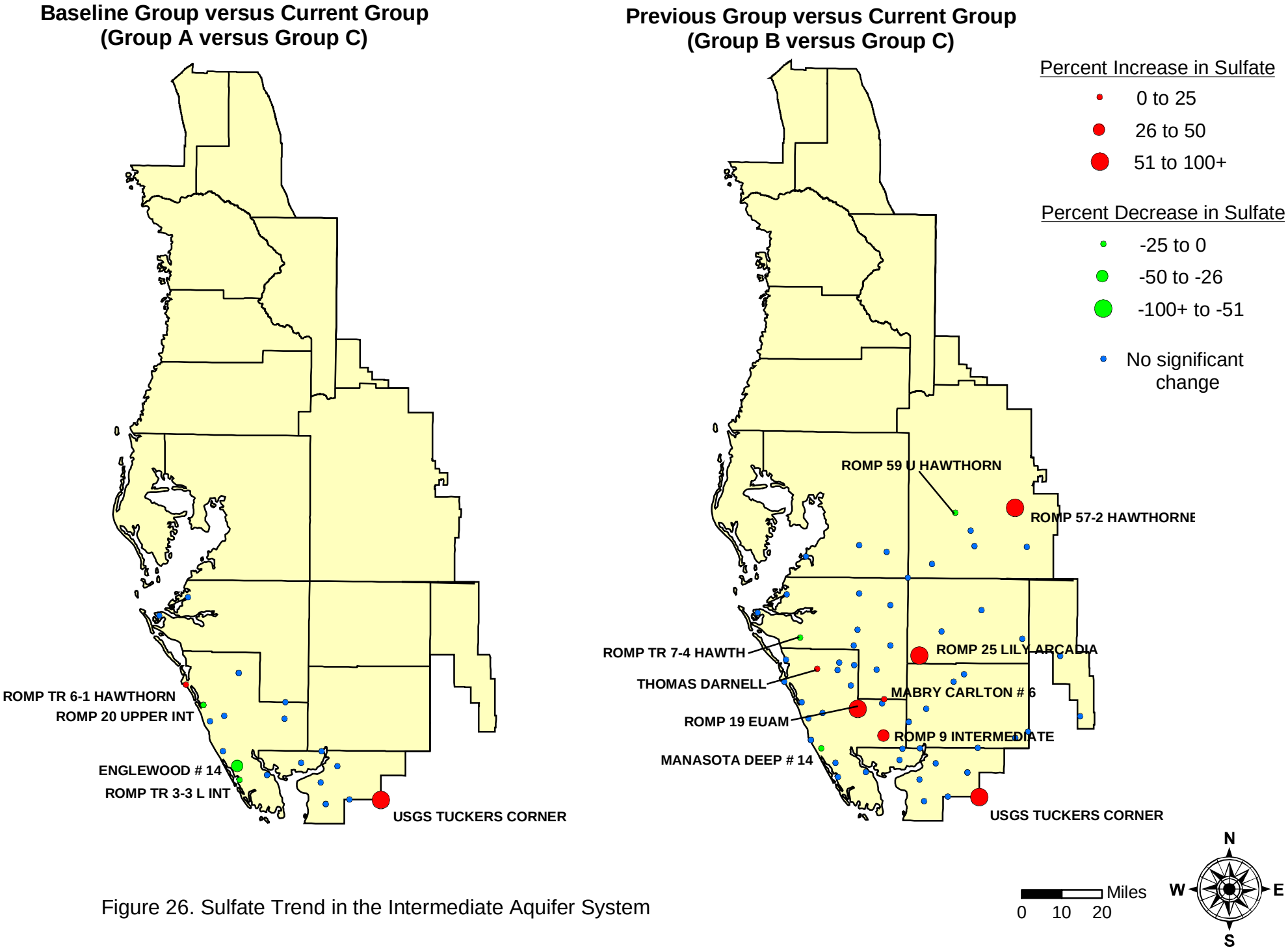


Figure 26. Sulfate Trend in the Intermediate Aquifer System

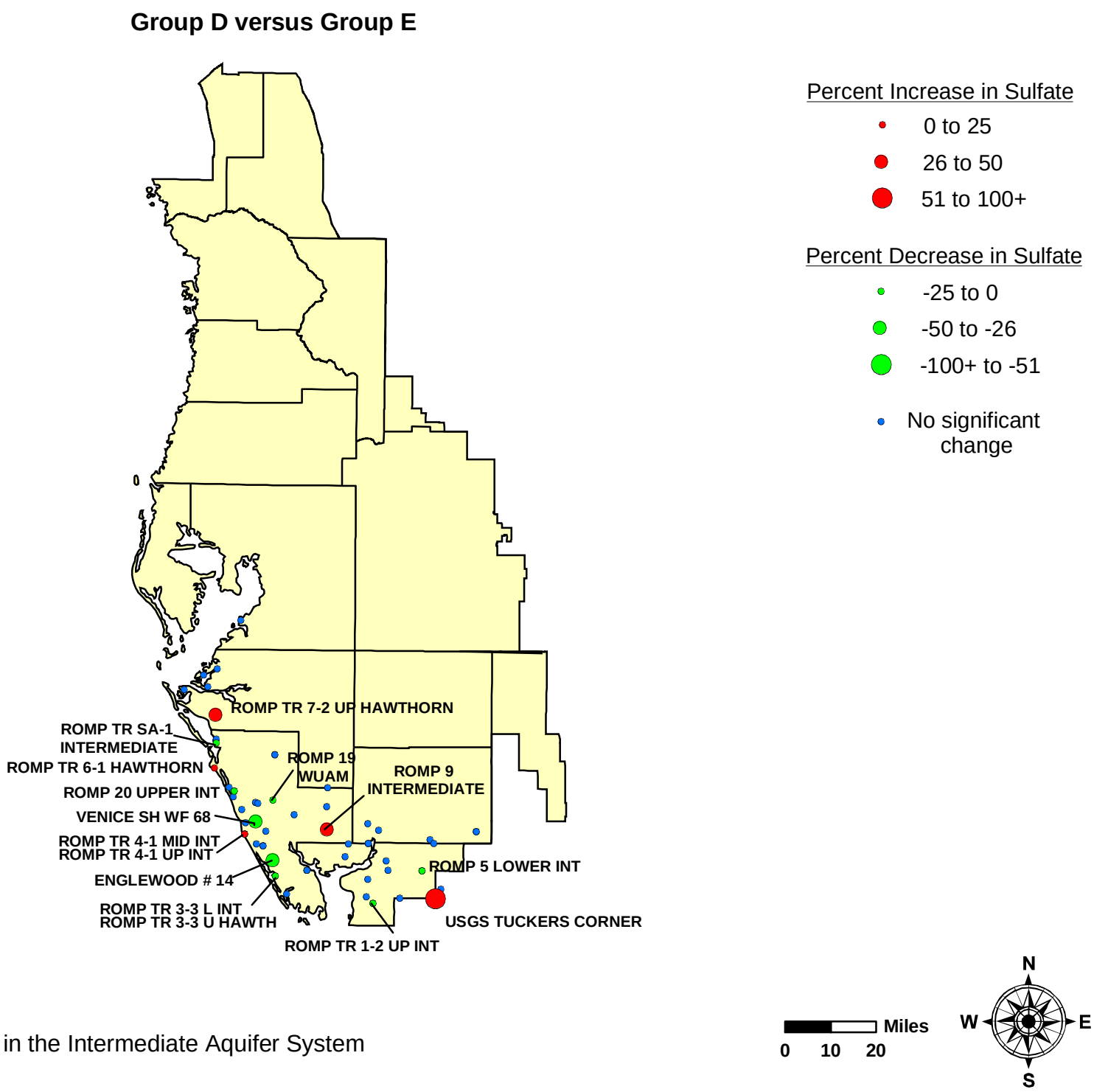


Figure 27. Sulfate Trend in the Intermediate Aquifer System

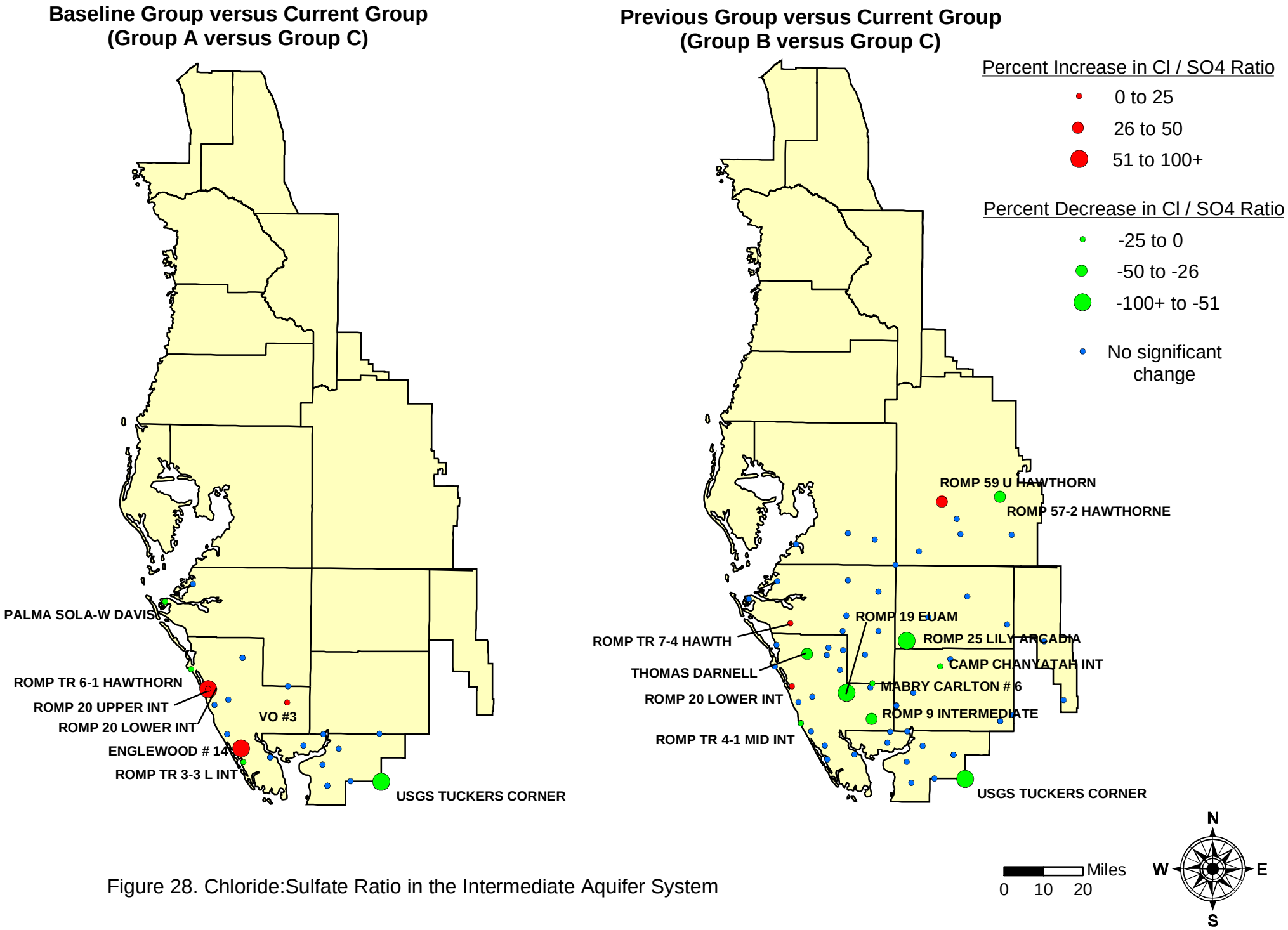
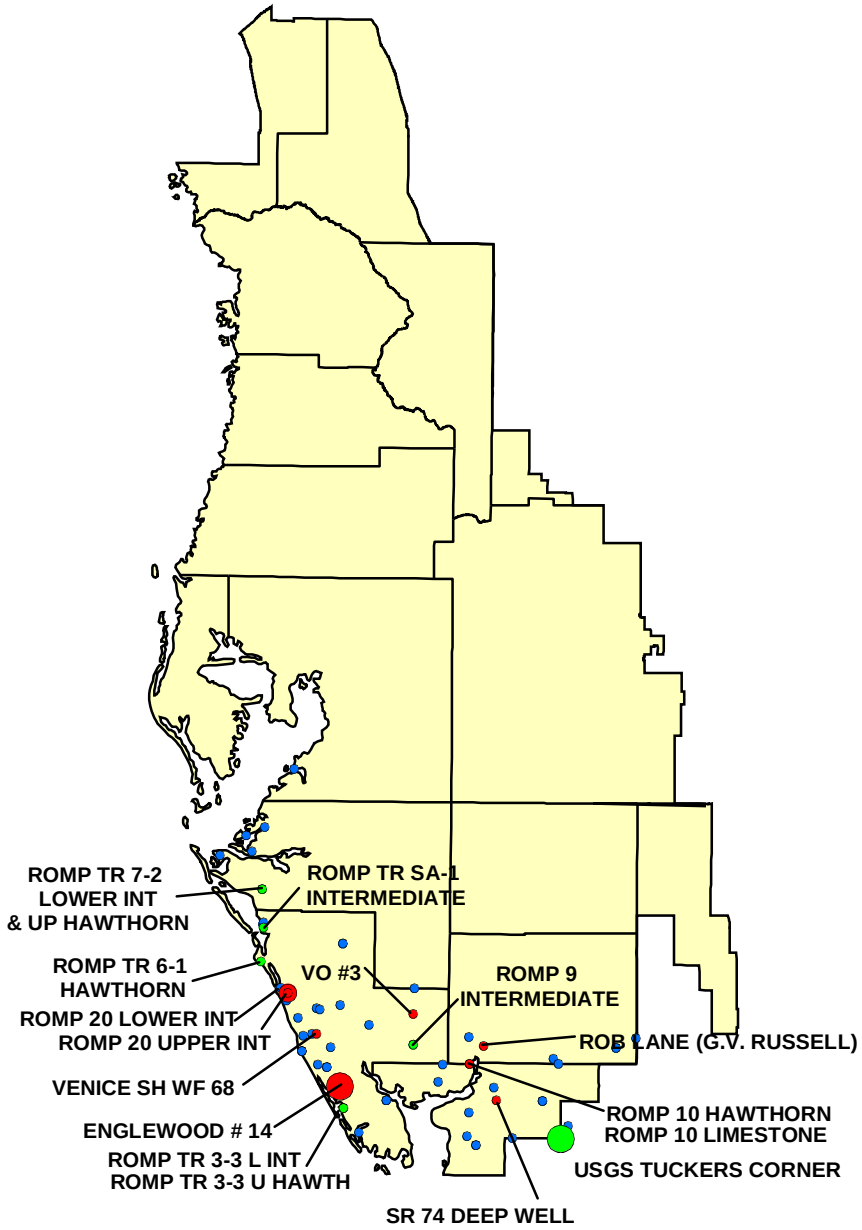


Figure 28. Chloride:Sulfate Ratio in the Intermediate Aquifer System

Group D versus Group E



Percent Increase in Cl / SO4 Ratio

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Cl / SO4 Ratio

- -25 to 0
- -50 to -26
- -100+ to -51

- No significant change

Miles
0 10 20

N
W E
S

Figure 29. Chloride:Sulfate Ratio in the Intermediate Aquifer System

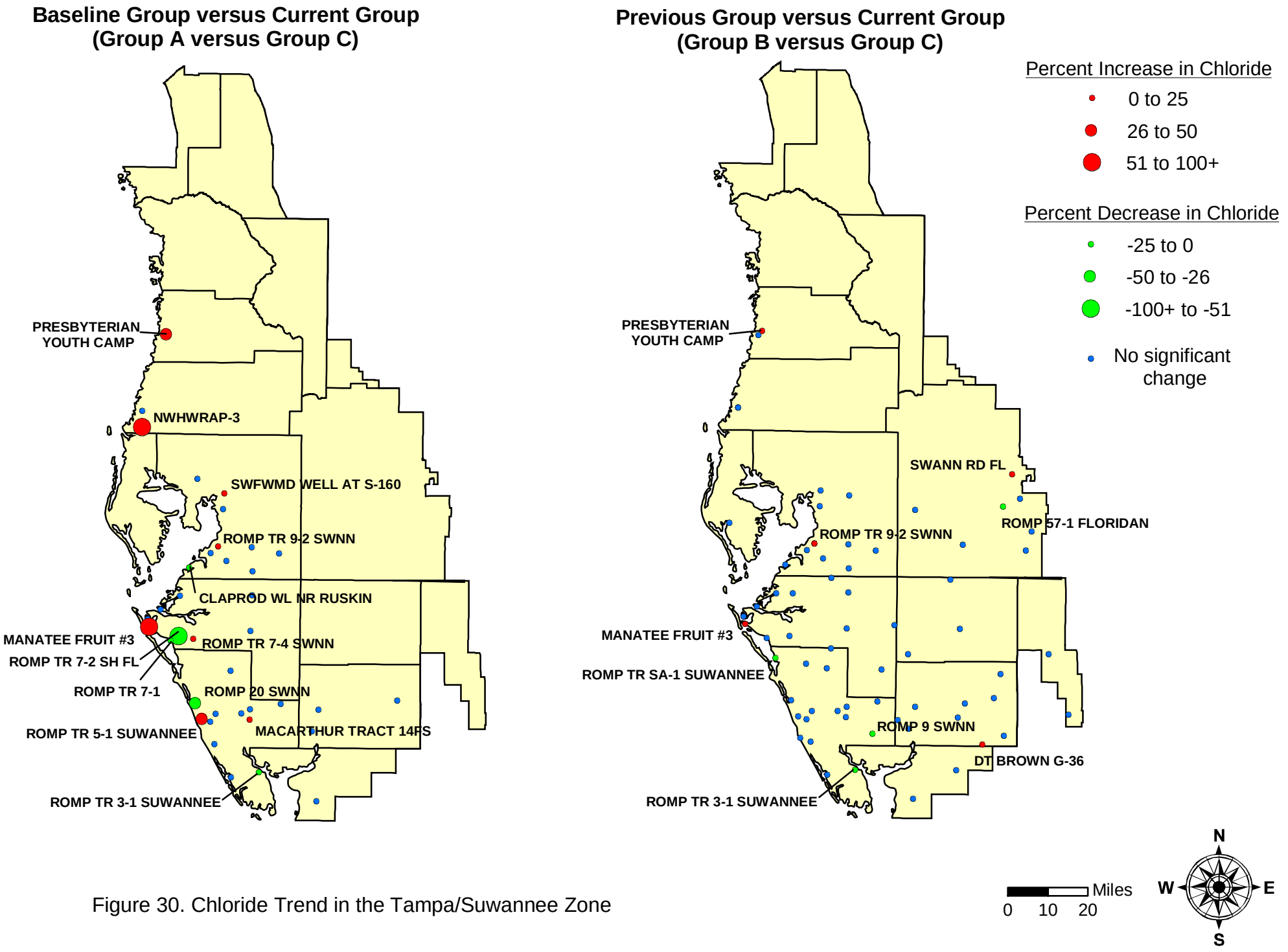
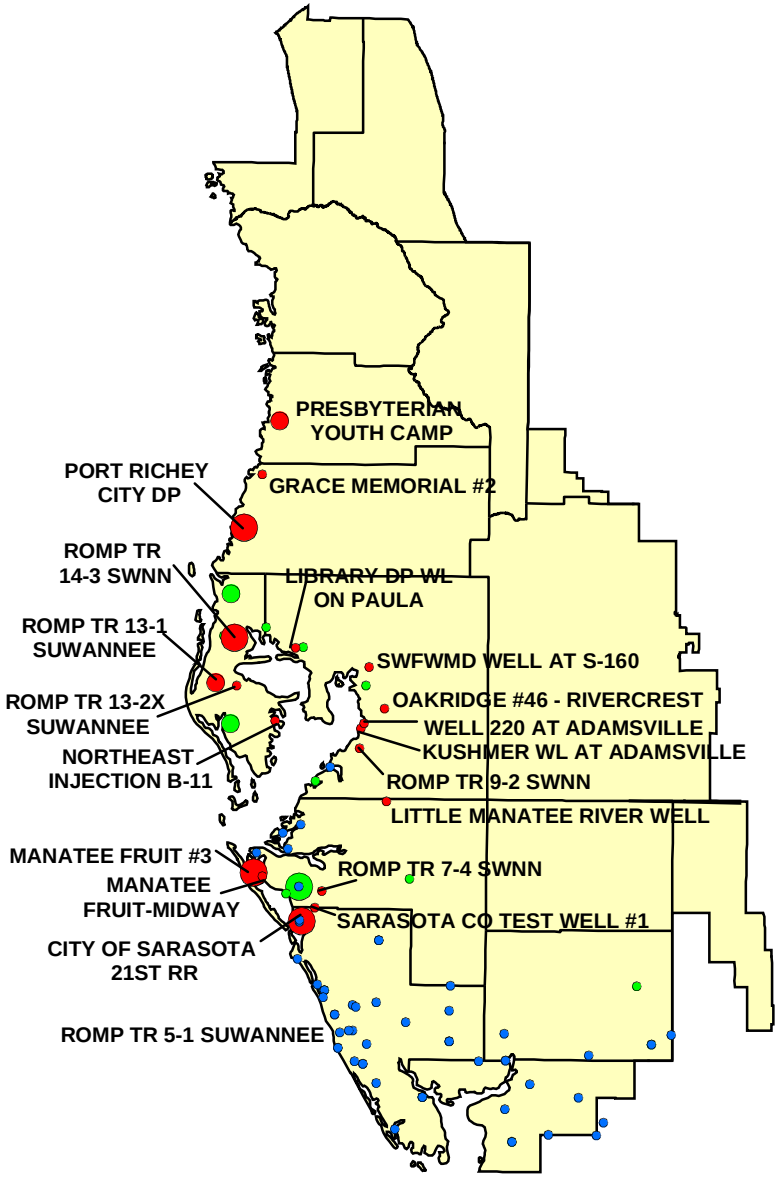


Figure 30. Chloride Trend in the Tampa/Suwannee Zone

Group D versus Group E



Percent Increase in Chloride

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Chloride

- -25 to 0
- -50 to -26
- -100+ to -51

- No significant change

Note: Only wells with increasing trends have been labeled. A complete list of all trending wells is located in Table 30.

Miles
0 10 20

N
W E
S

Figure 31. Chloride Trend in the Tampa/Suwannee Zone

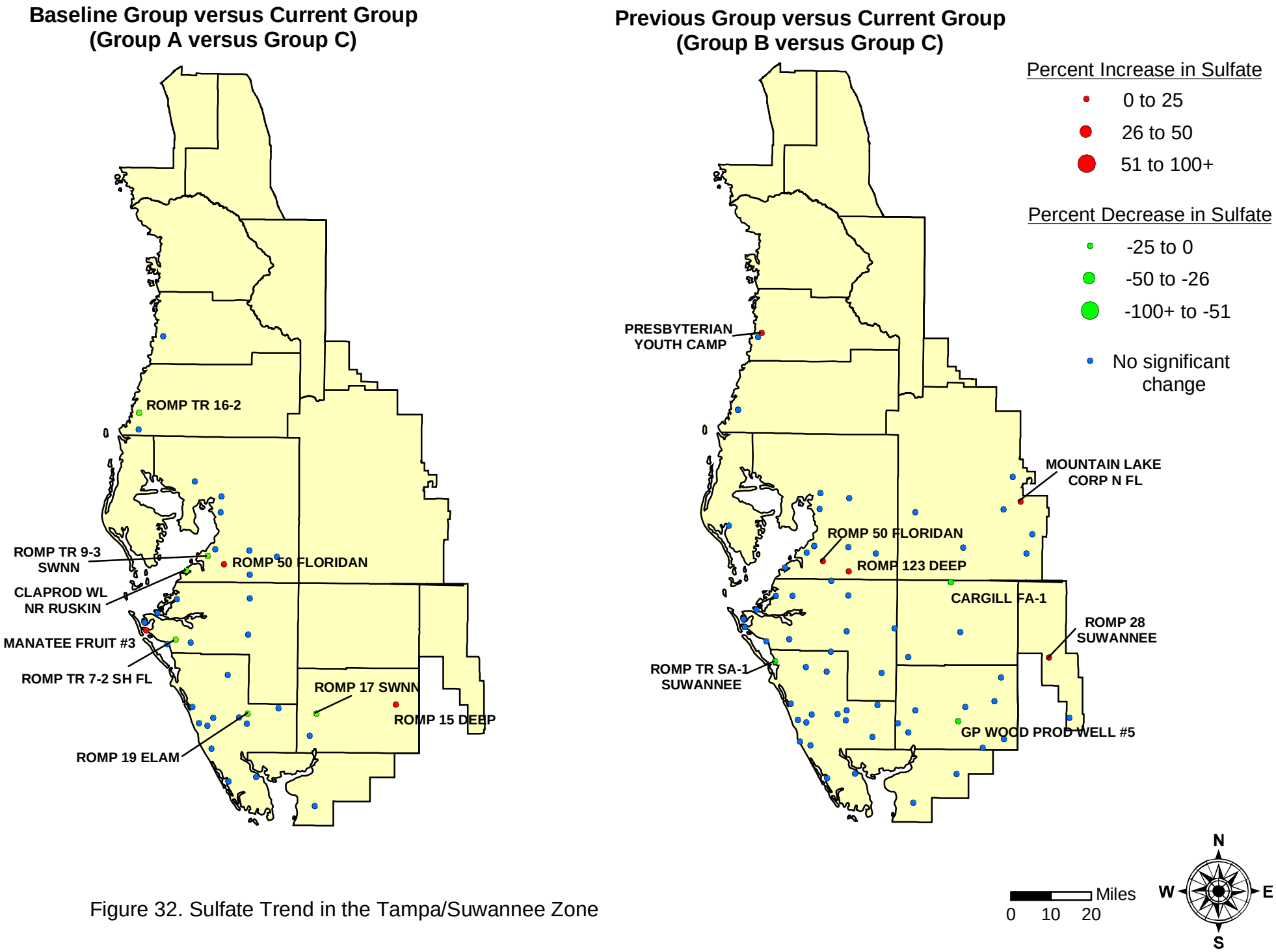
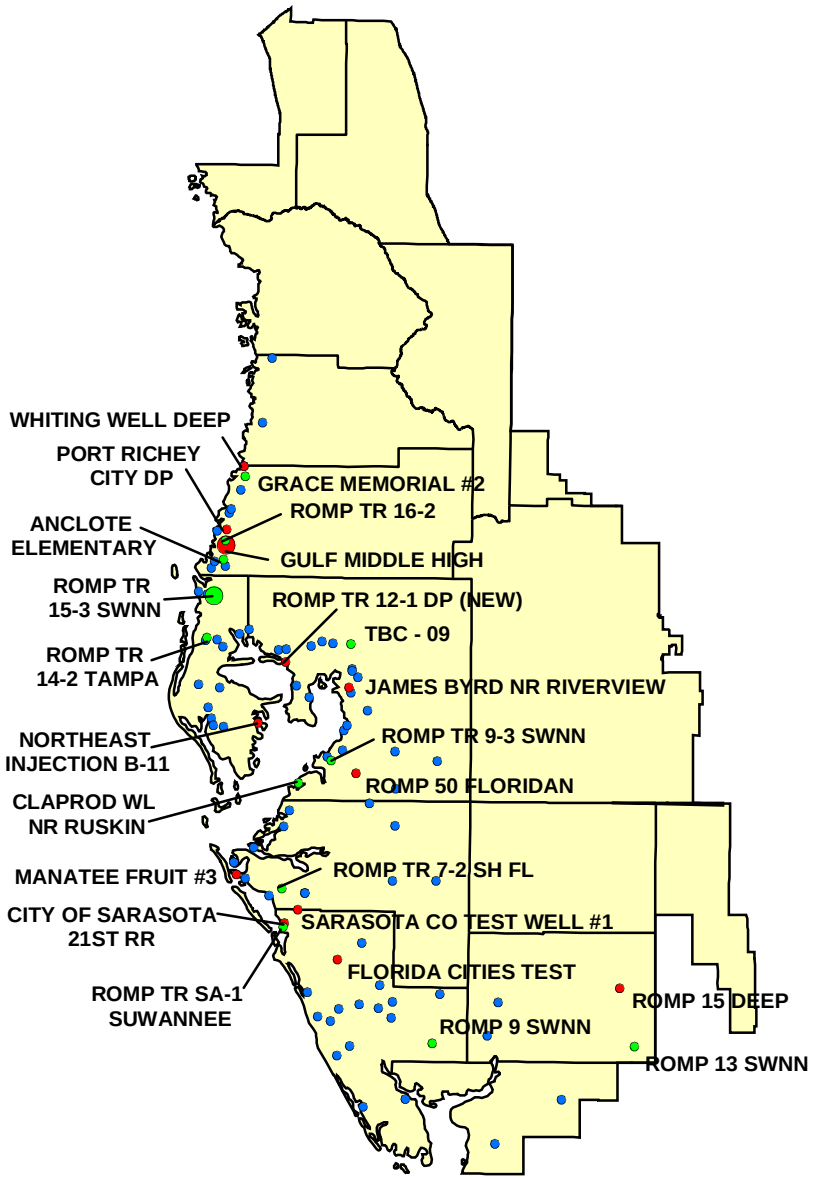


Figure 32. Sulfate Trend in the Tampa/Suwannee Zone

Group D versus Group E



Percent Increase in Sulfate

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Sulfate

- -25 to 0
- -50 to -26
- -100+ to -51

- No significant change

Miles
0 10 20

N
W E
S

Figure 33. Sulfate Trend in the Tampa/Suwannee Zone

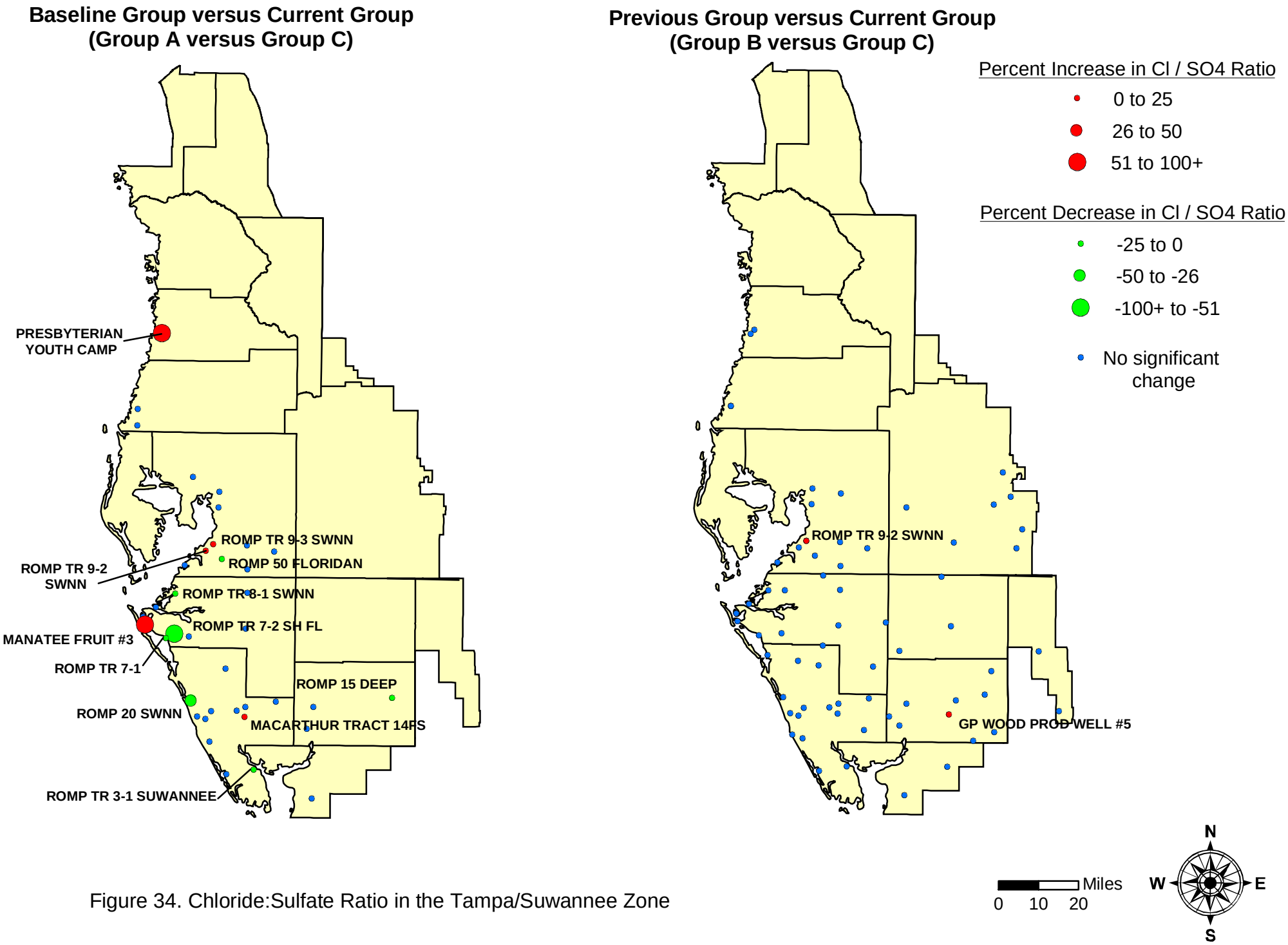


Figure 34. Chloride:Sulfate Ratio in the Tampa/Suwannee Zone

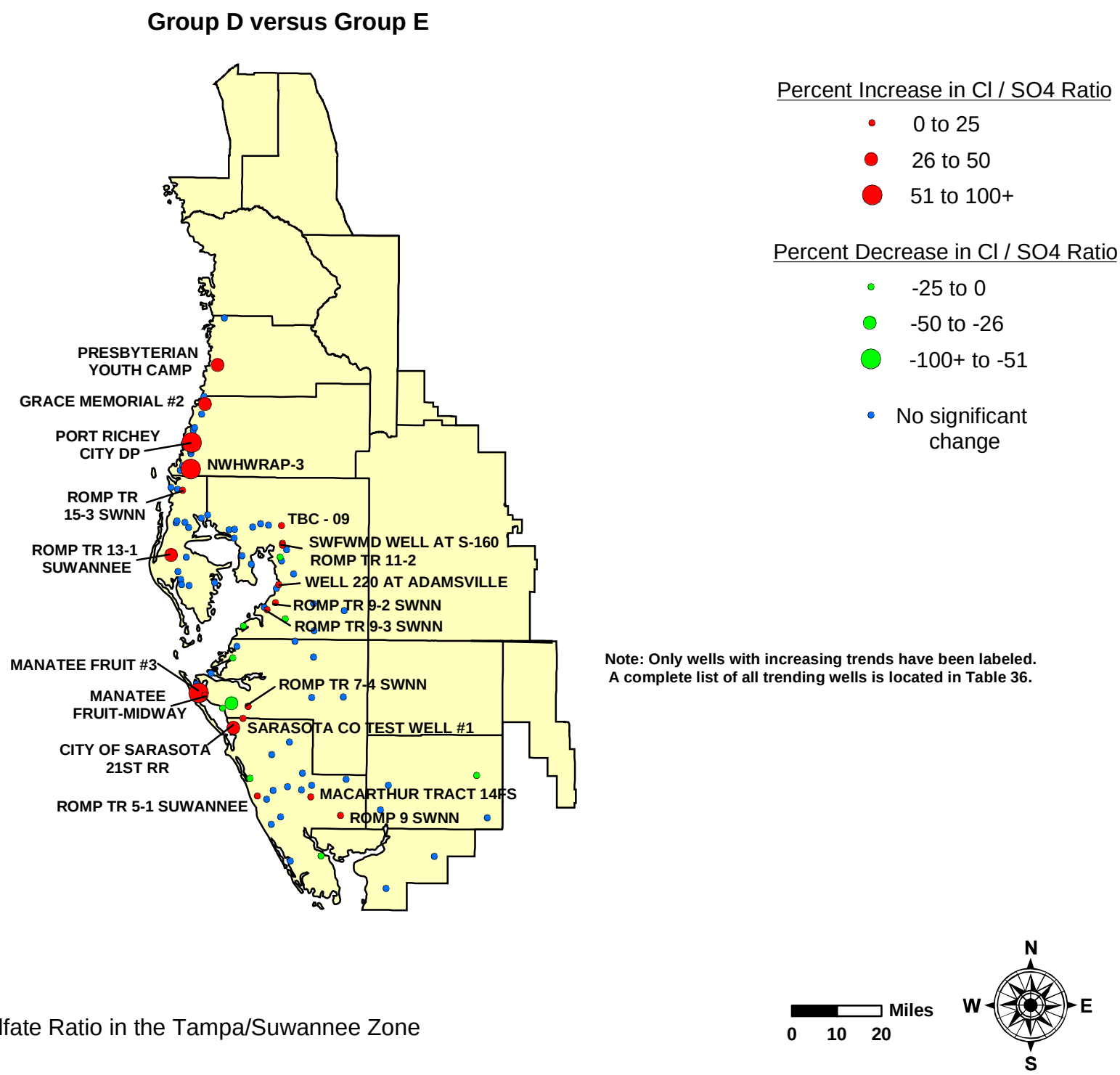


Figure 35. Chloride:Sulfate Ratio in the Tampa/Suwannee Zone

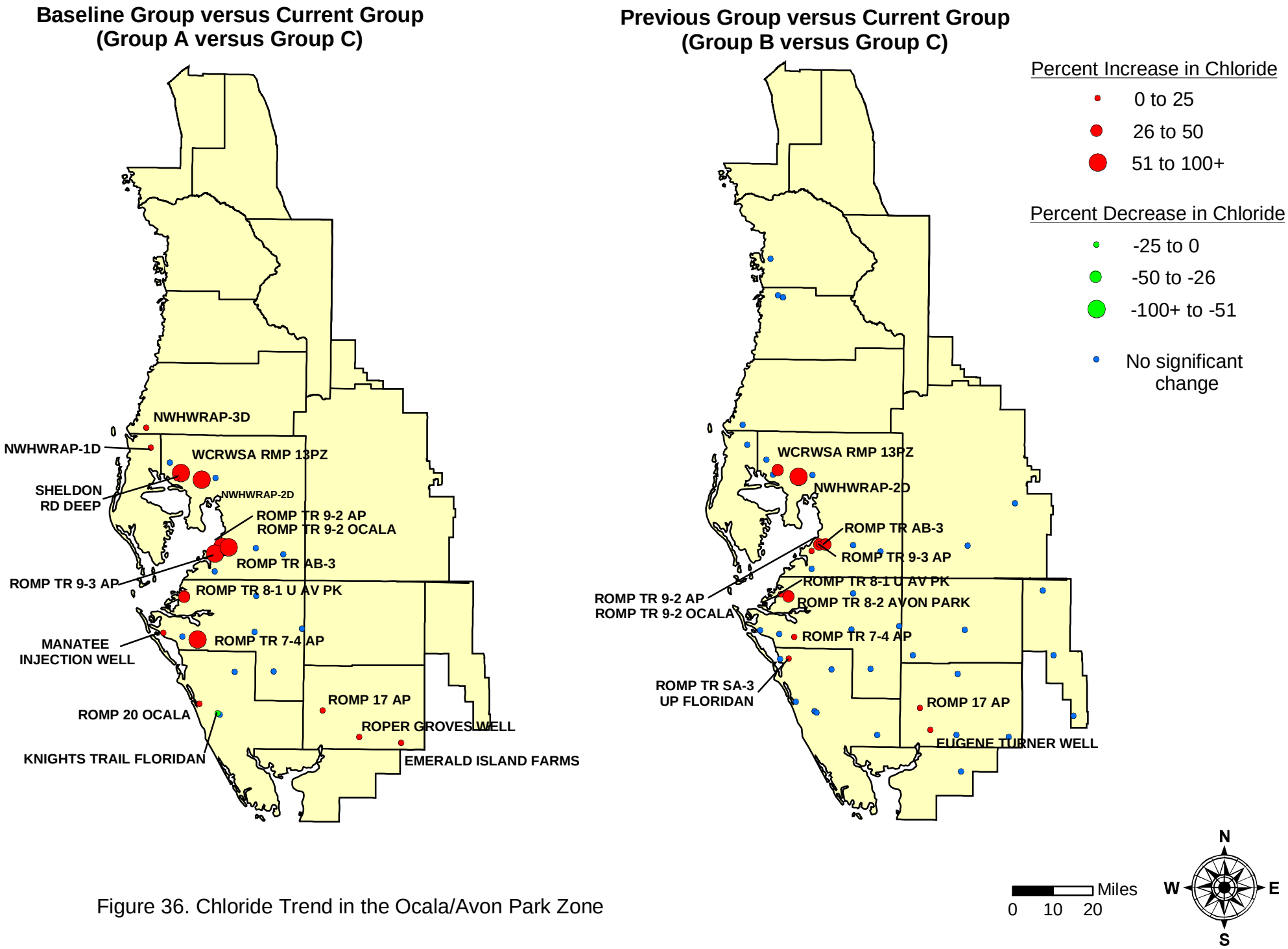
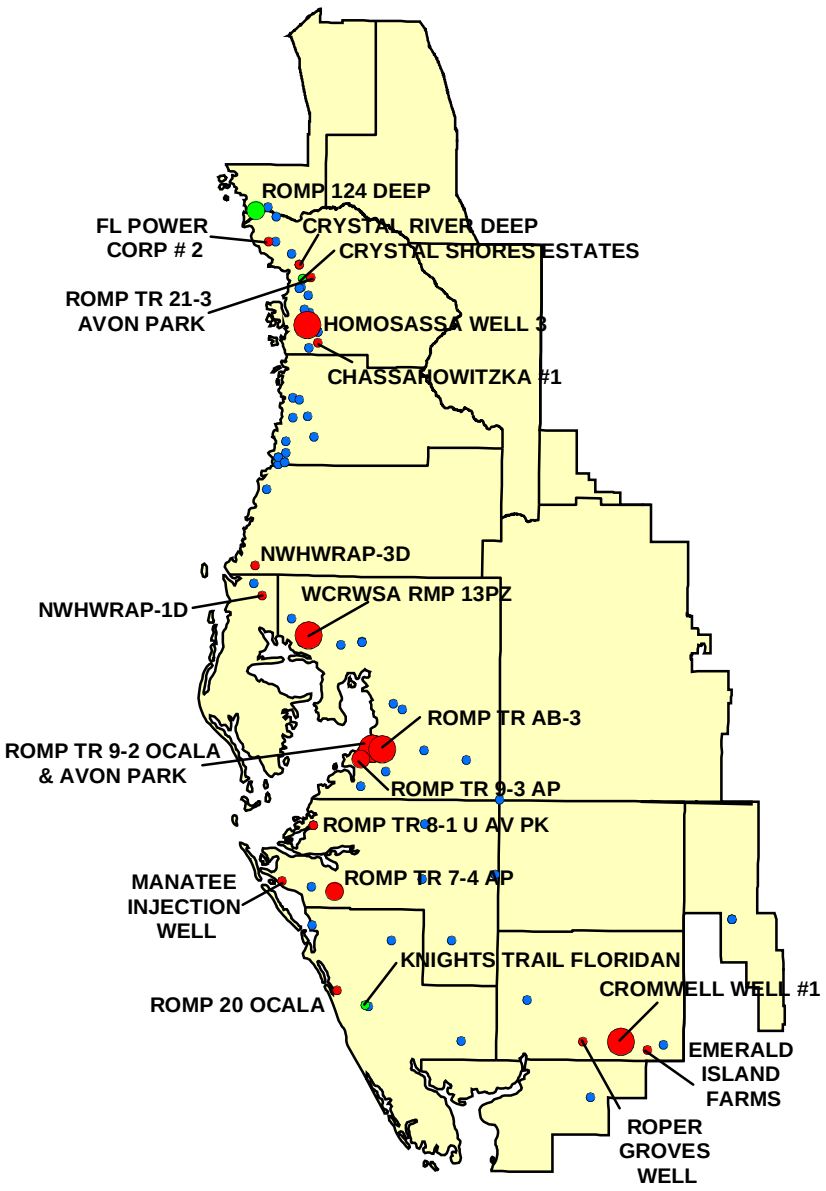


Figure 36. Chloride Trend in the Ocala/Avon Park Zone

Group D versus Group E



Percent Increase in Chloride

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Chloride

- -25 to 0
- -50 to -26
- -100+ to -51

- No significant change

Miles
0 10 20

N
W E
S

Figure 37. Chloride Trend in the Ocala/Avon Park Zone

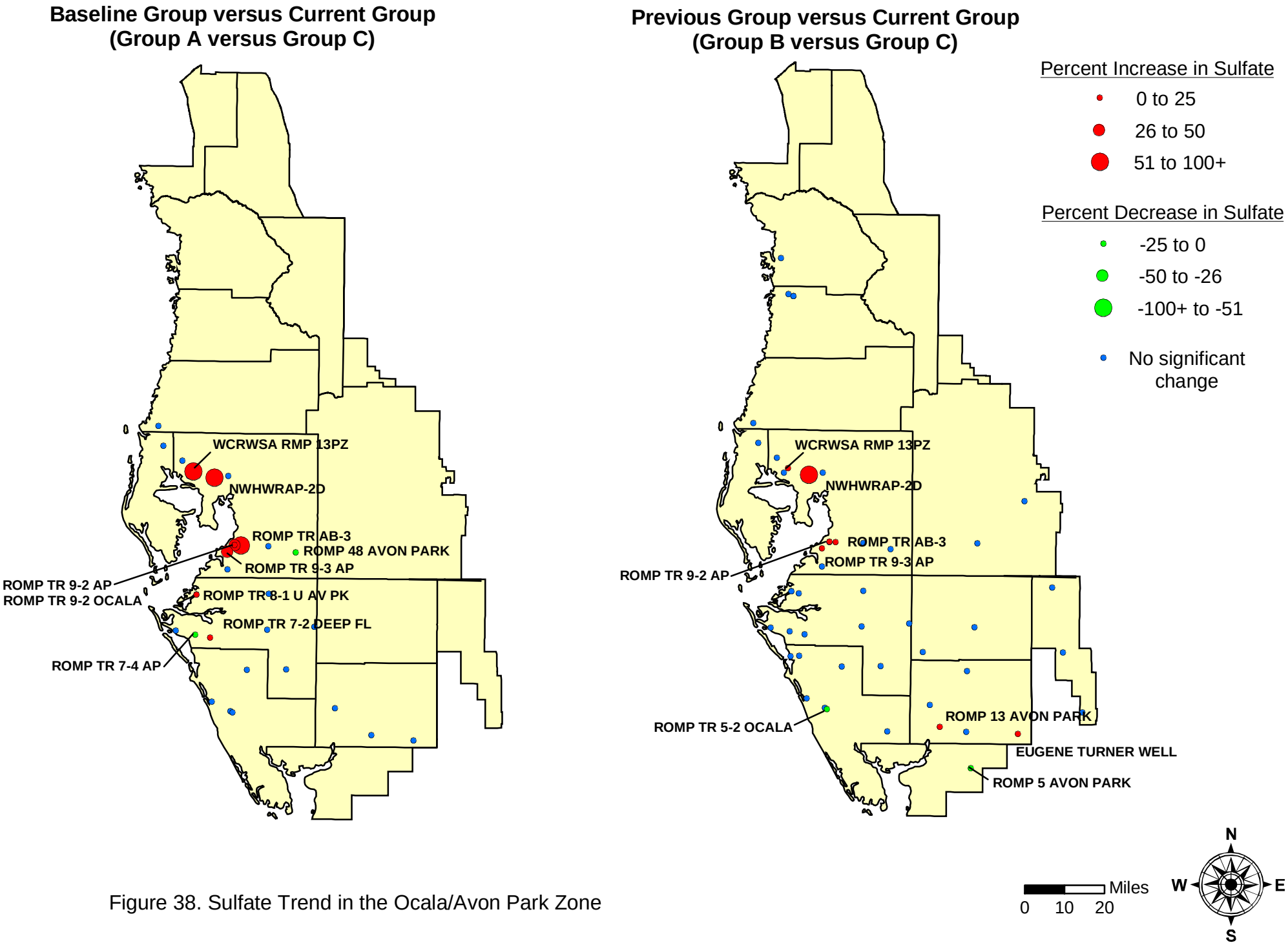
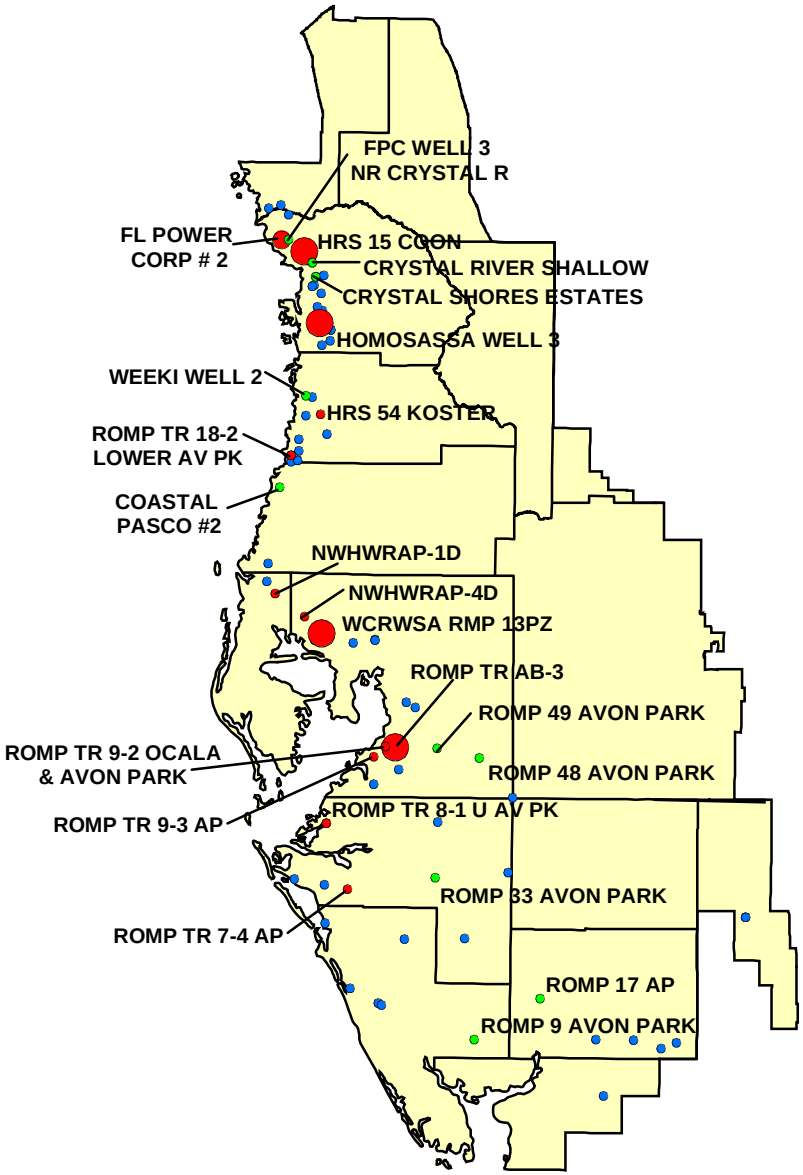


Figure 38. Sulfate Trend in the Ocala/Avon Park Zone

Group D versus Group E



Percent Increase in Sulfate

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Sulfate

- -25 to 0
- -50 to -26
- -100+ to -51

- No significant change

Miles
0 10 20

N
W E
S

Figure 39. Sulfate Trend in the Ocala/Avon Park Zone

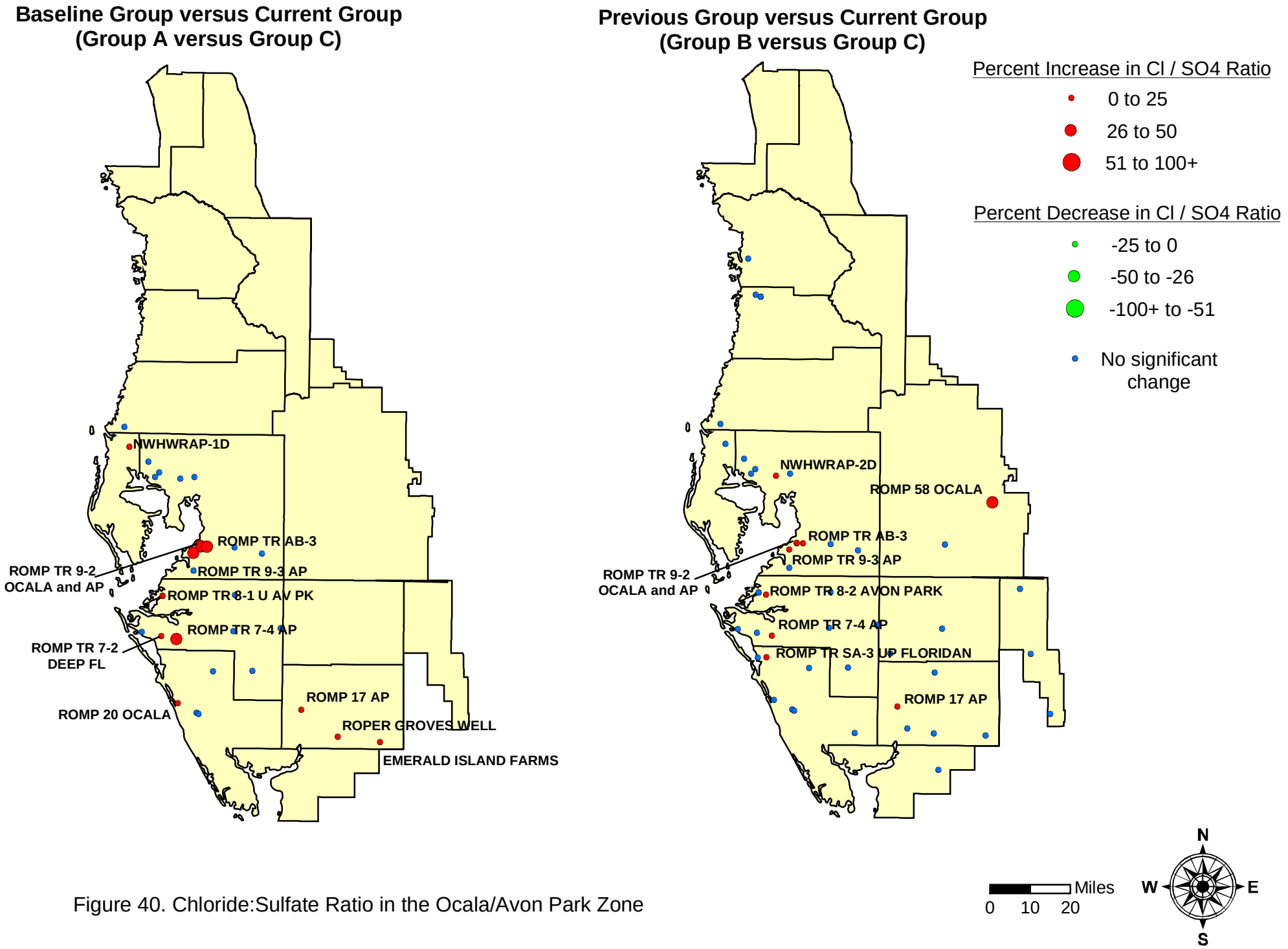
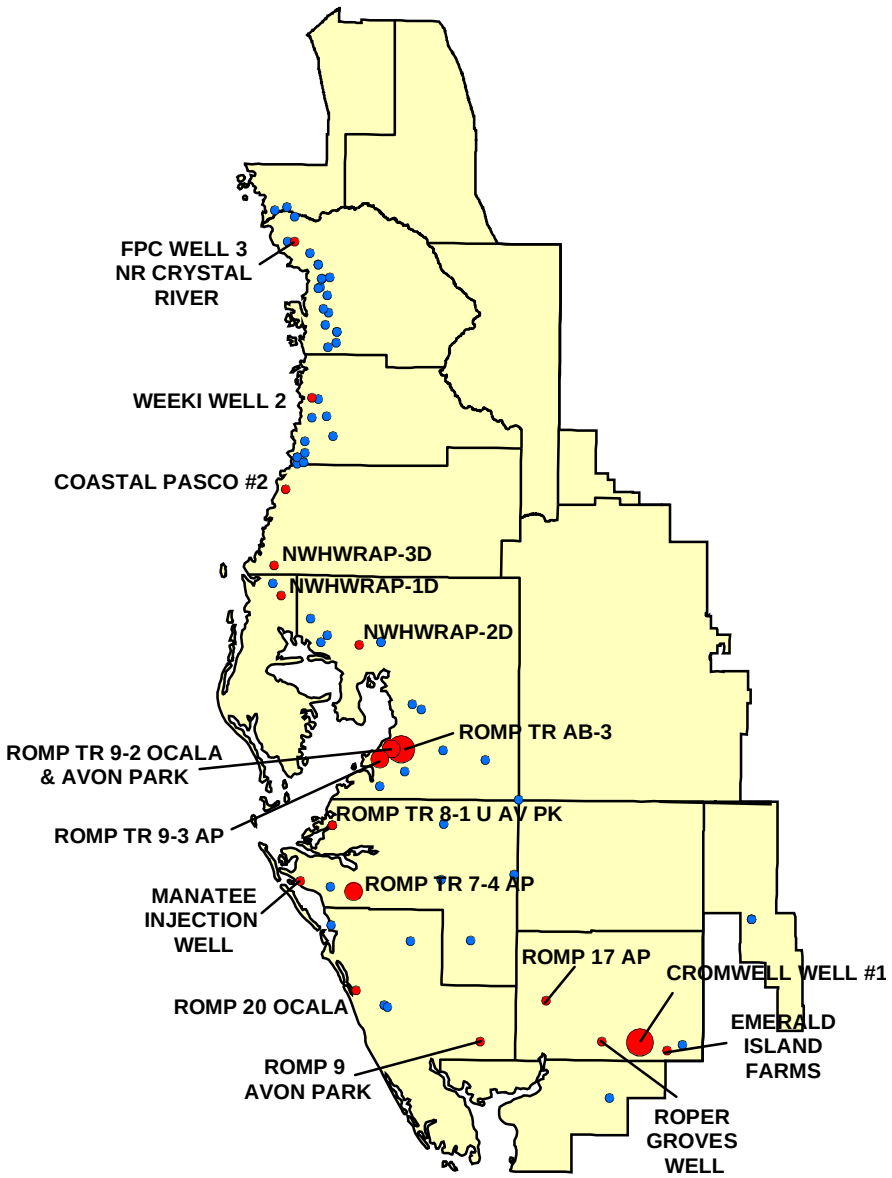


Figure 40. Chloride:Sulfate Ratio in the Ocala/Avon Park Zone

Group D versus Group E



Percent Increase in Cl / SO4 Ratio

- 0 to 25
- 26 to 50
- 51 to 100+

Percent Decrease in Cl / SO4 Ratio

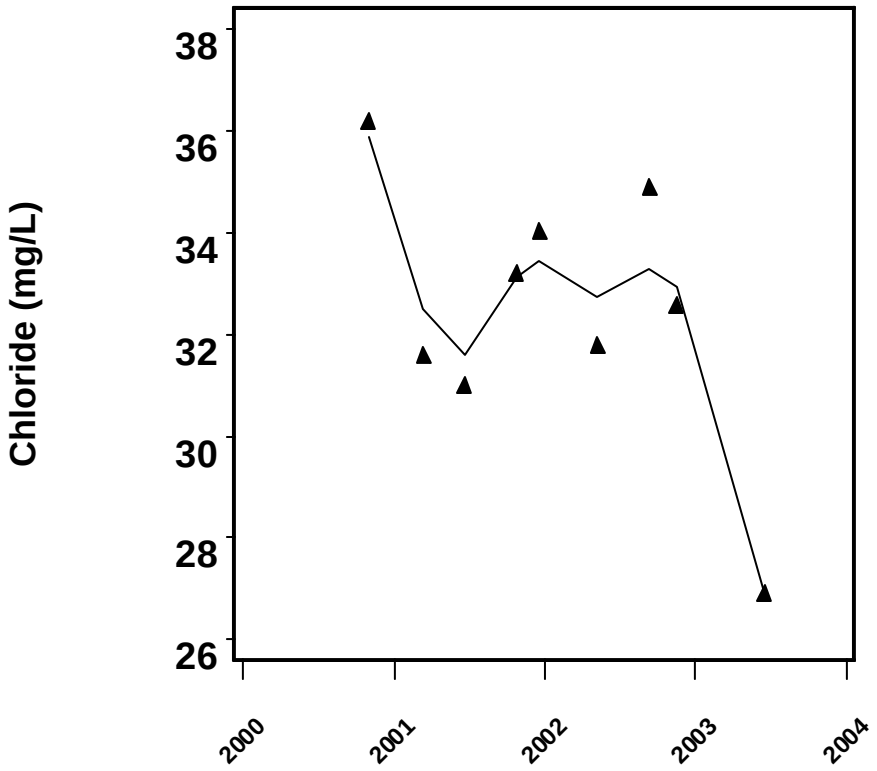
- -25 to 0
- -50 to -26
- -100+ to -51

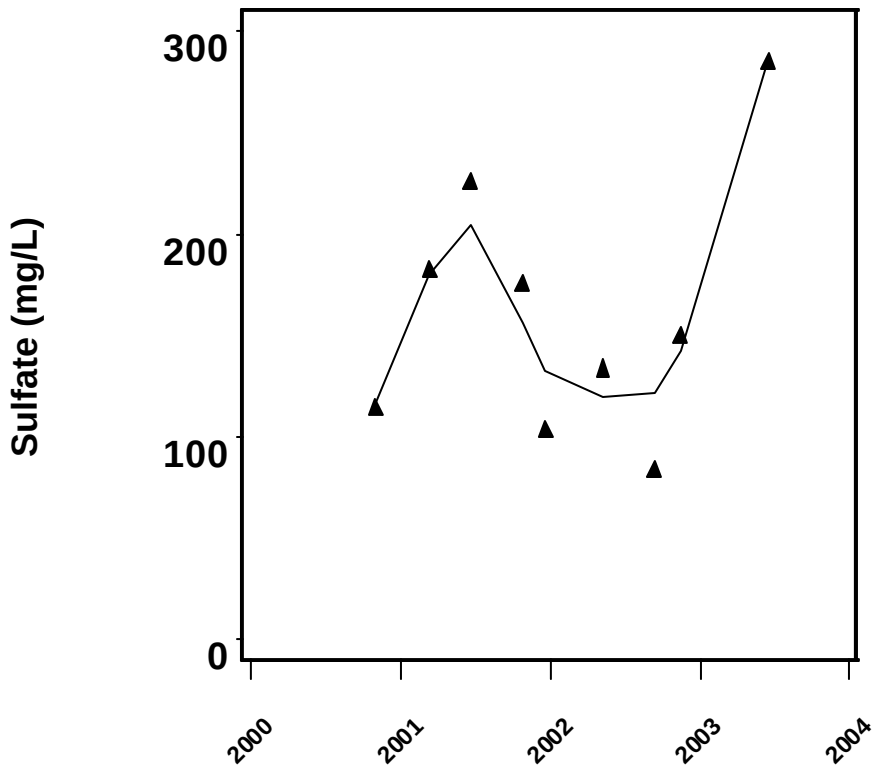
- No significant change

Miles
0 10 20

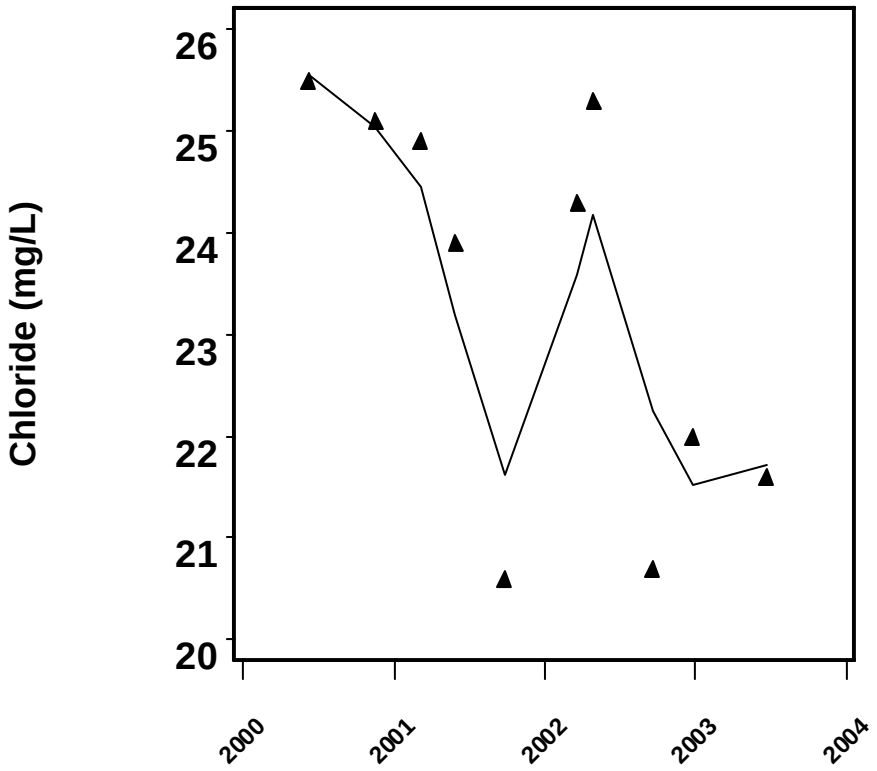
N
W E
S

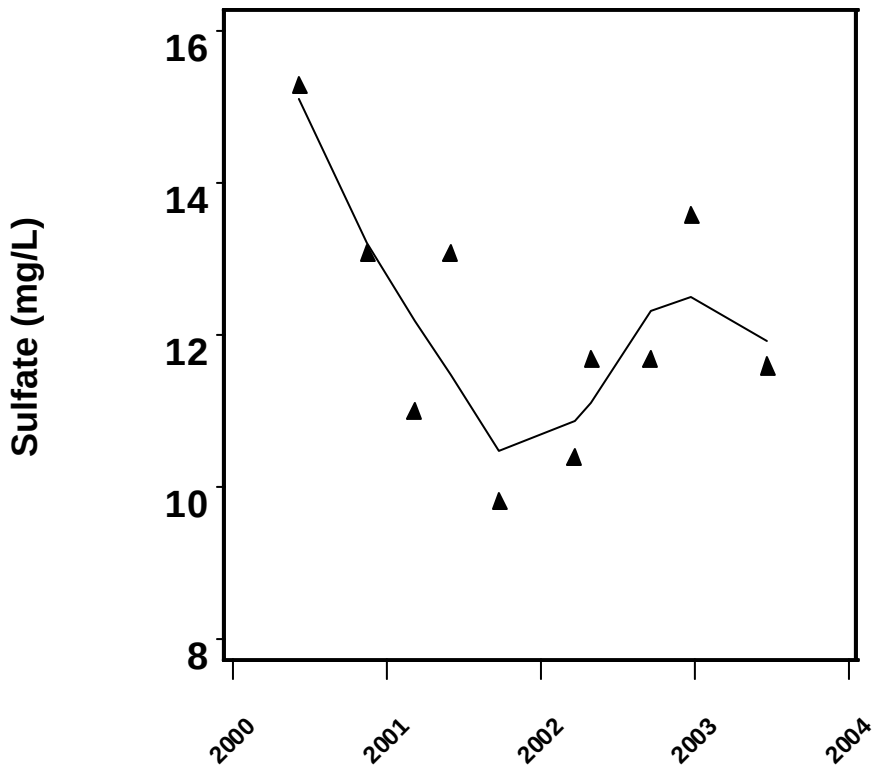
Figure 41. Chloride:Sulfate Ratio Trend in the Ocala/Avon Park Zone



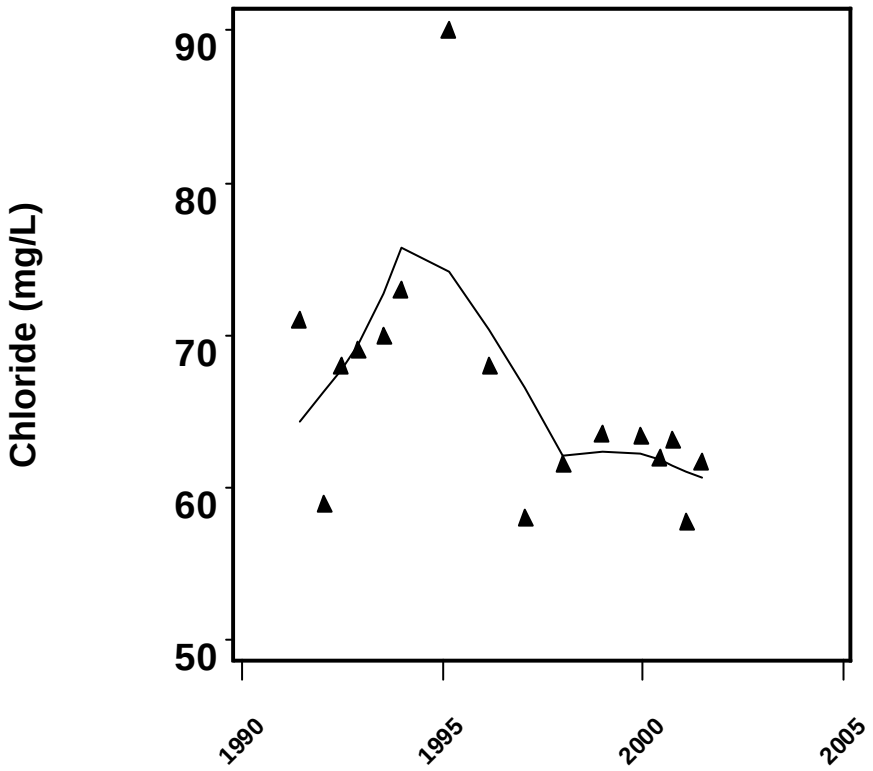


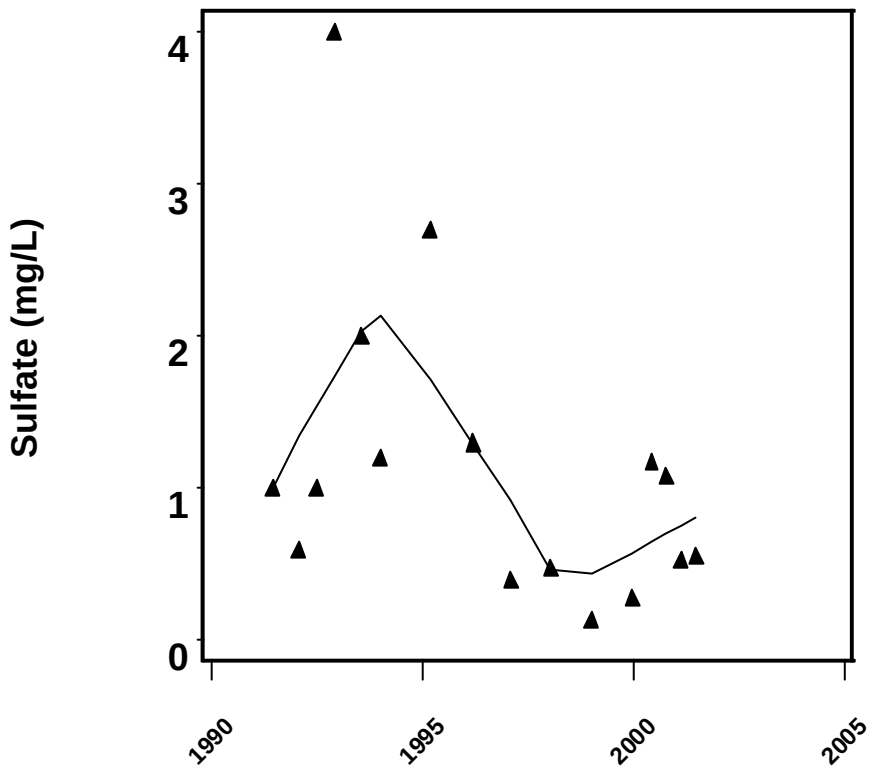
Appendix A-1. Water Quality Scatterplots Fitted with a LOWESS Curve for ARCADIA WELL #2.



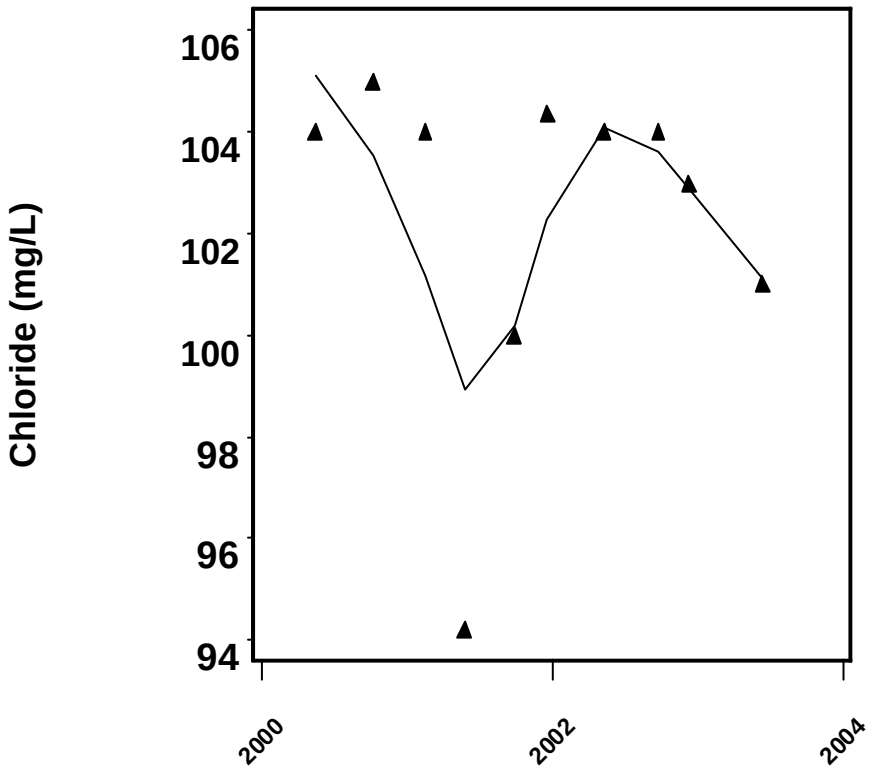


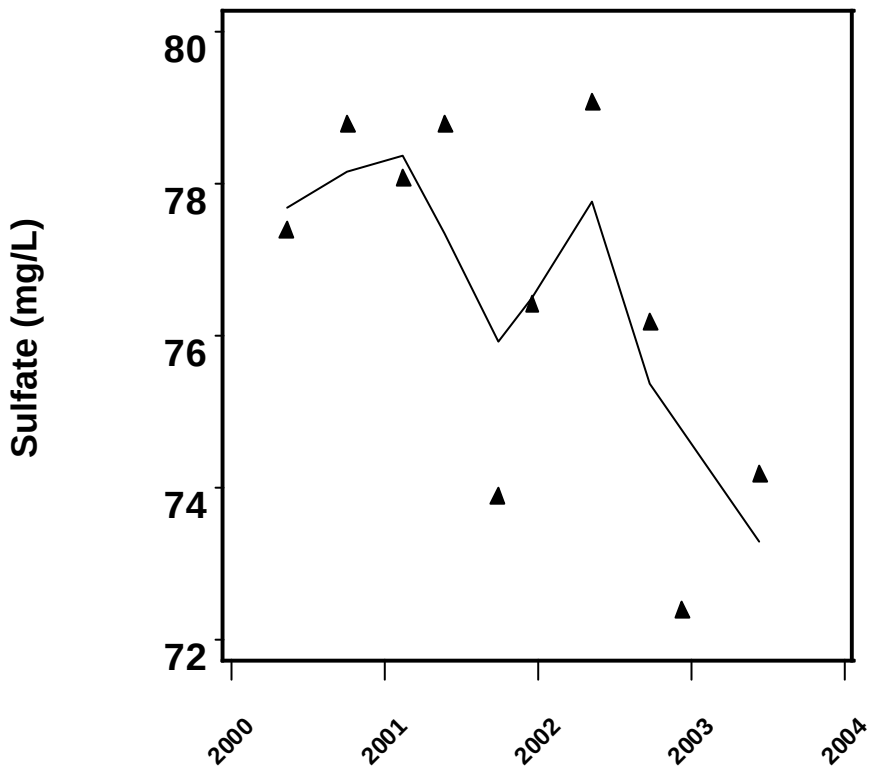
Appendix A-2. Water Quality Scatterplots Fitted with a LOWESS Curve for AYECH – ROMP 24 INT.



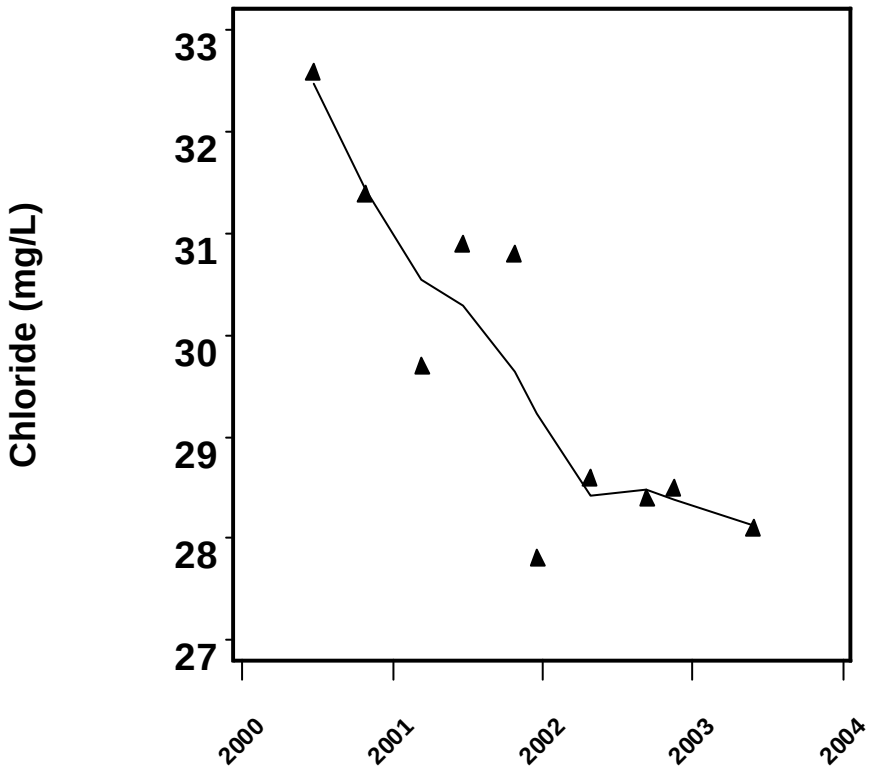


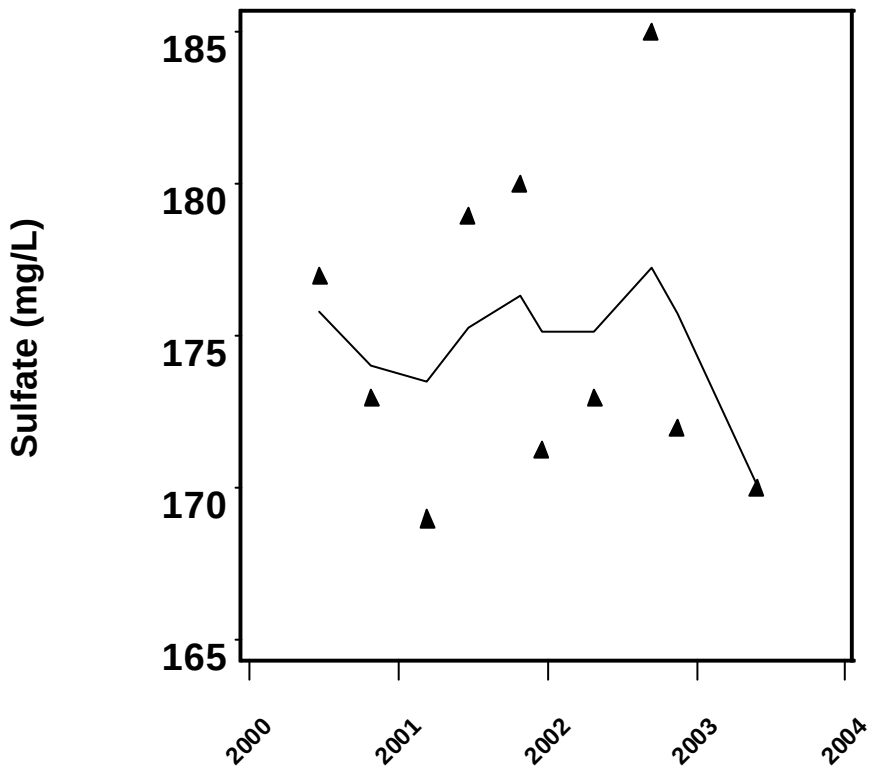
Appendix A-3. Water Quality Scatterplots Fitted with a LOWESS Curve for BABCOCK 2126.



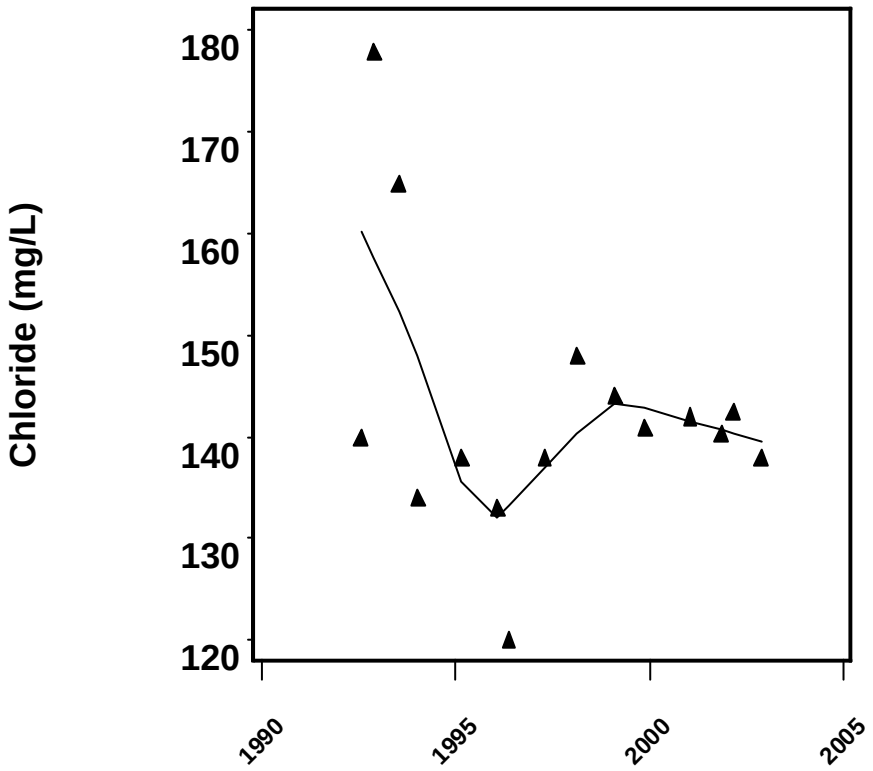


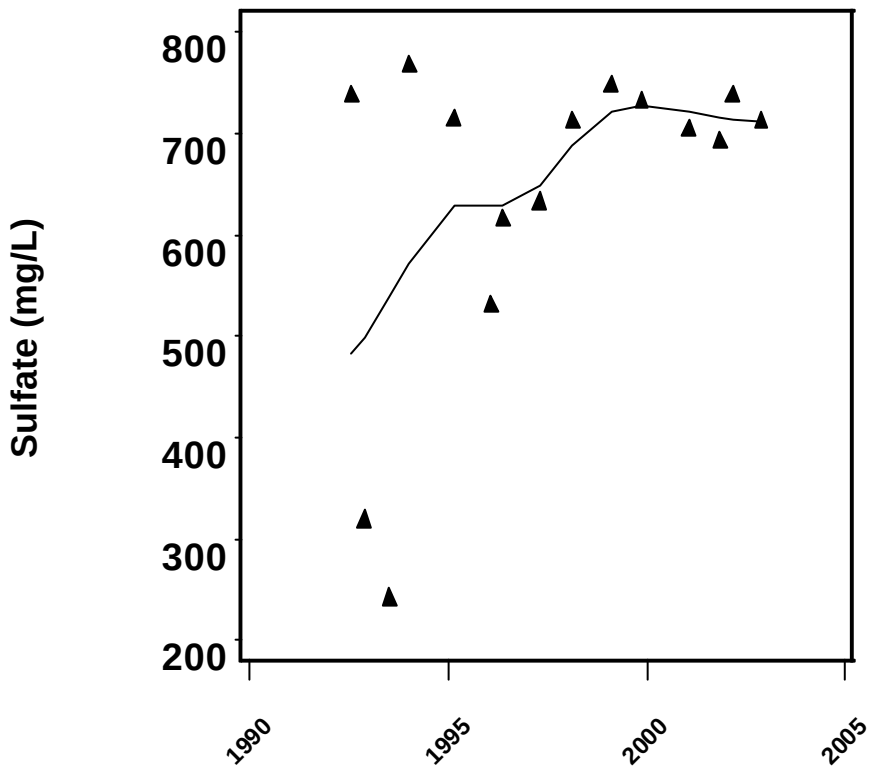
Appendix A-4. Water Quality Scatterplots Fitted with a LOWESS Curve for BIG SLOUGH DEEP.



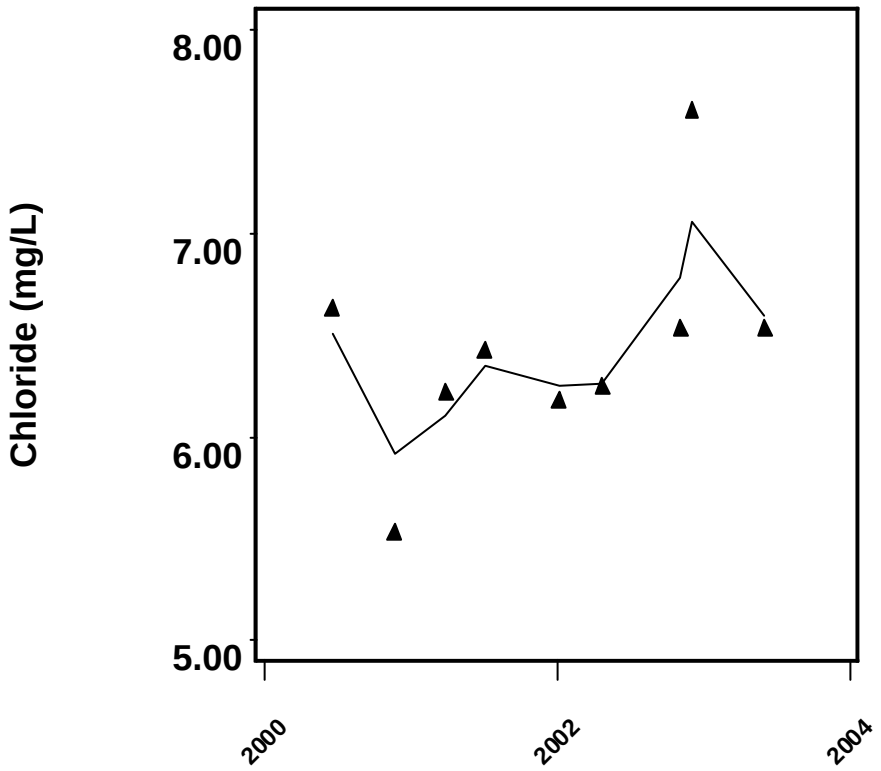


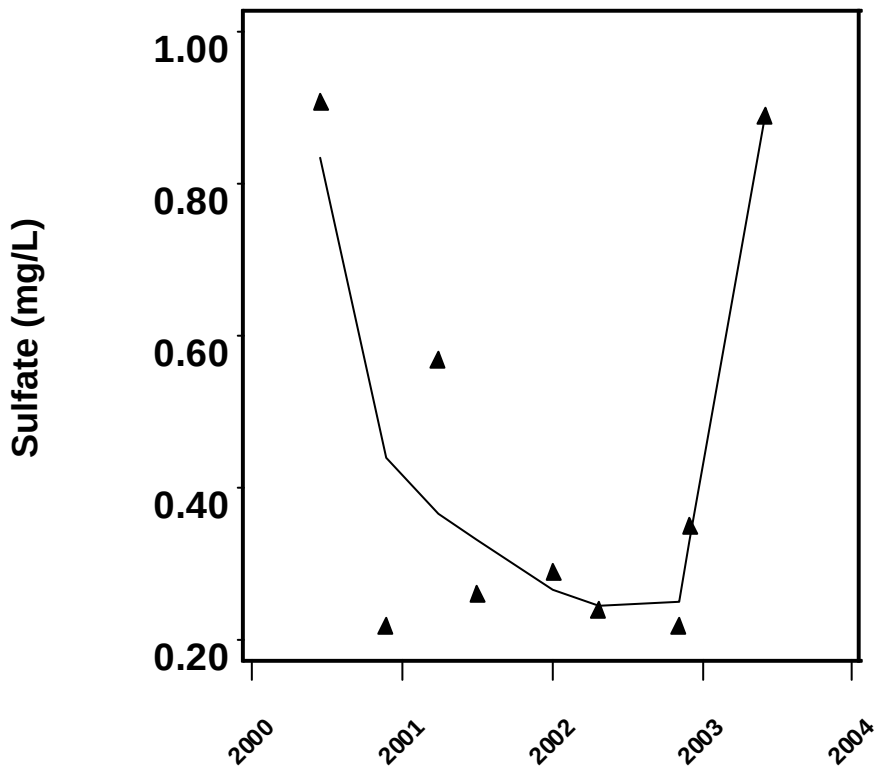
Appendix A-5. Water Quality Scatterplots Fitted with a LOWESS Curve for CAMP CHANYATAH INT.



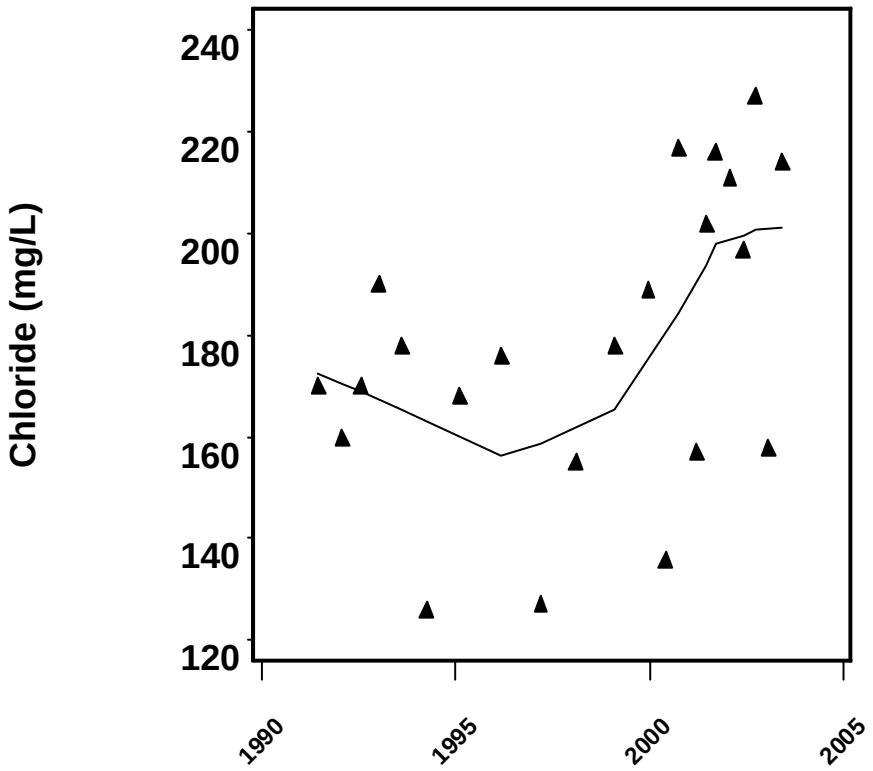


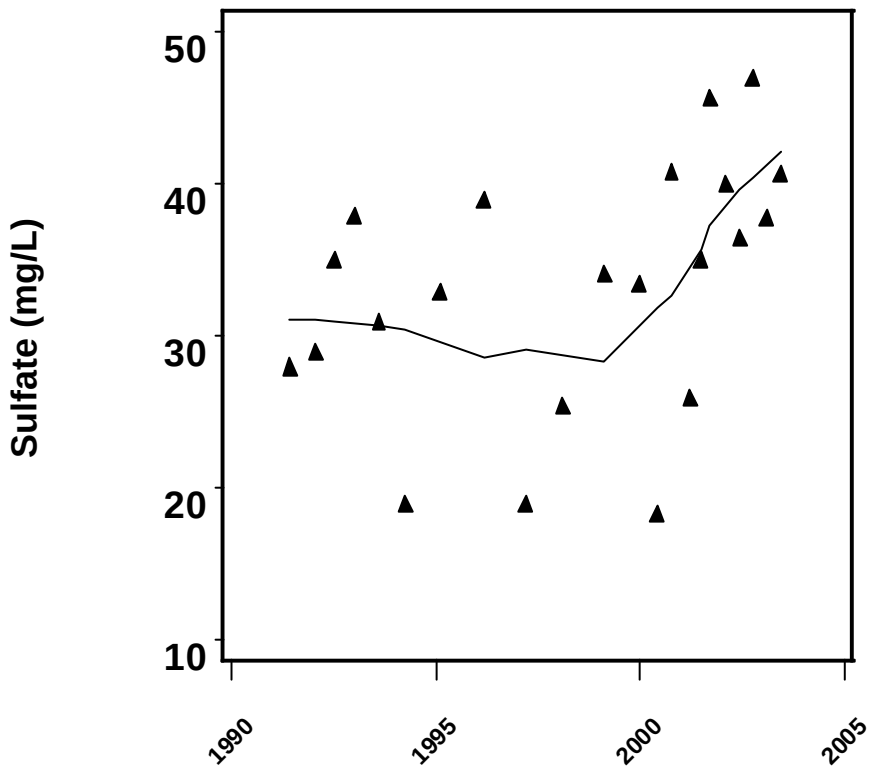
Appendix A-6. Water Quality Scatterplots Fitted with a LOWESS Curve for CITY OF SARA 27TH ST.



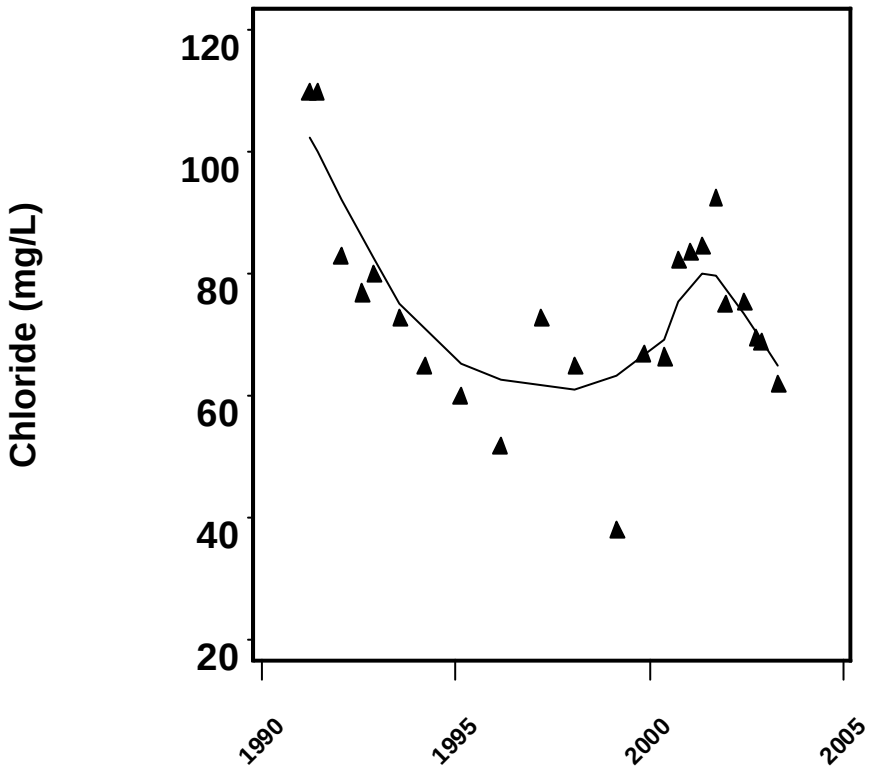


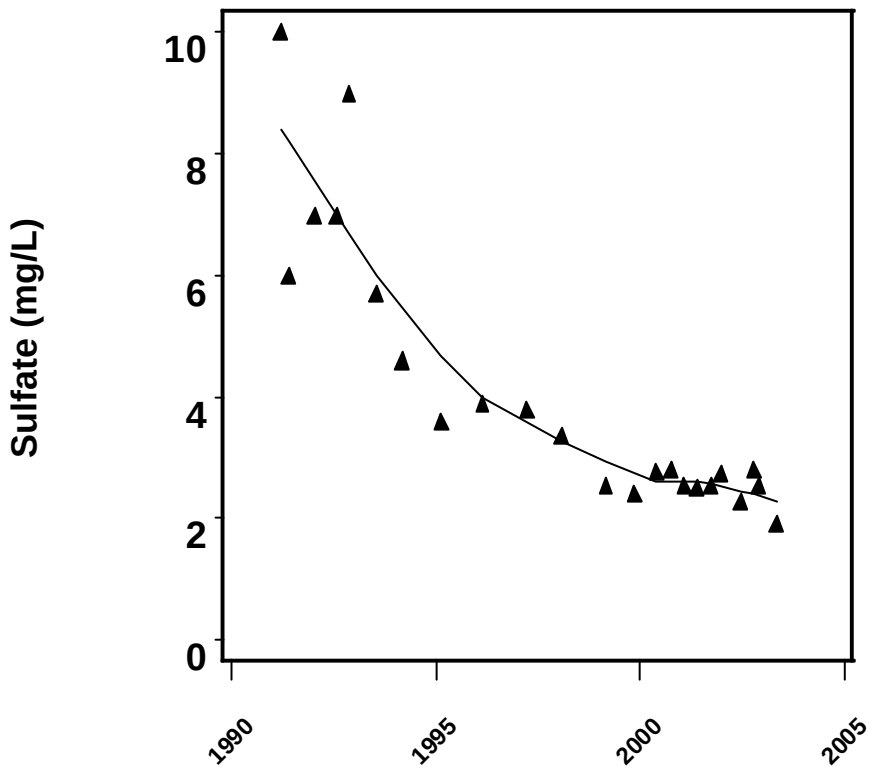
Appendix A-7. Water Quality Scatterplots Fitted with a LOWESS Curve for CREWSVILLE UP INT-AG.



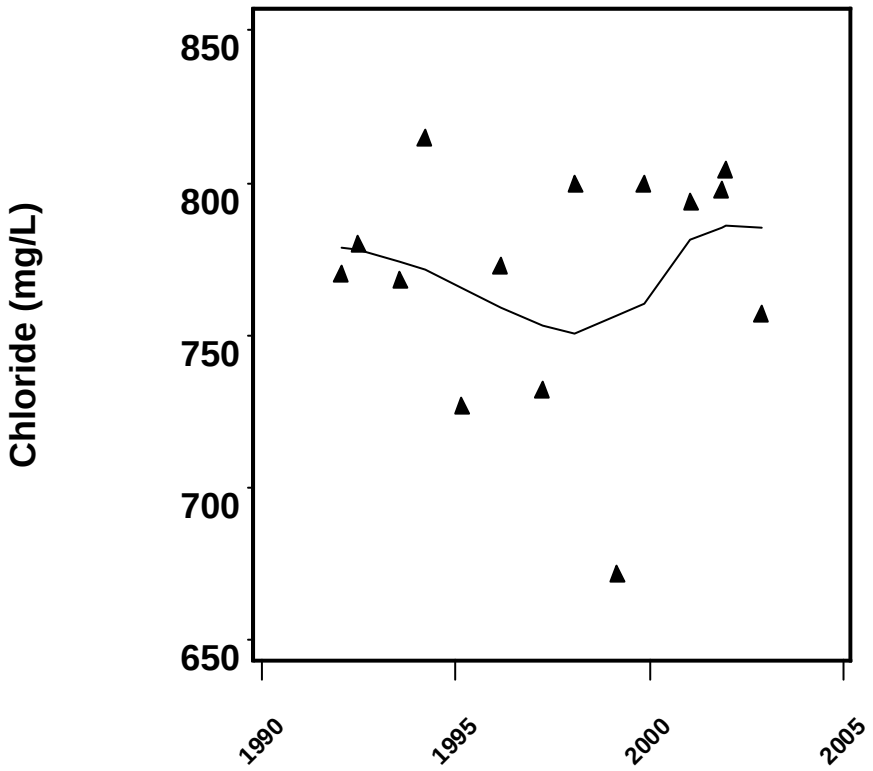


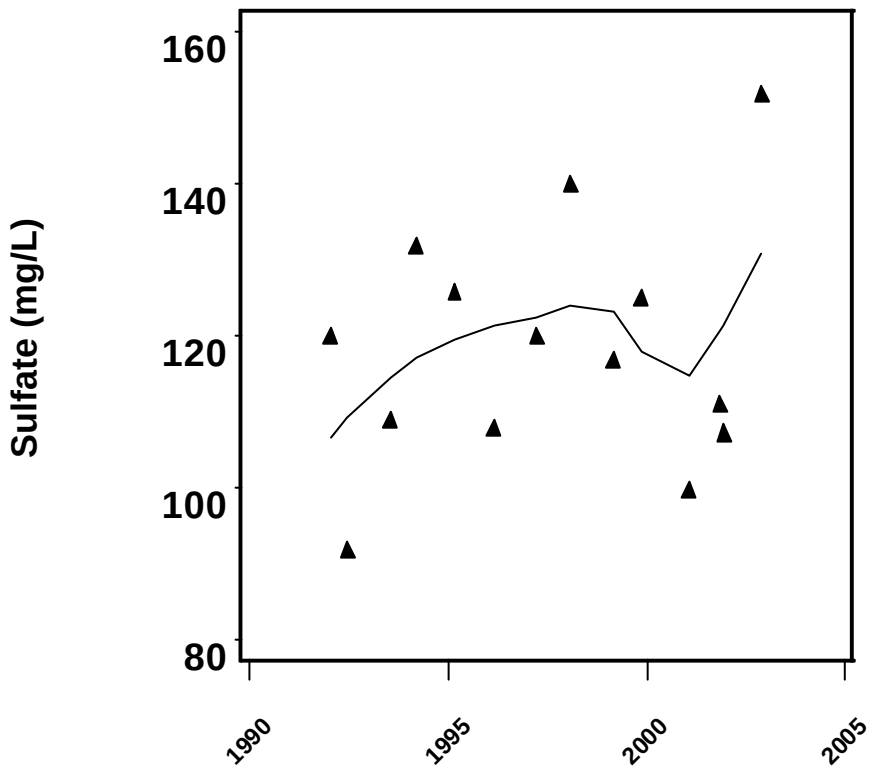
Appendix A-8. Water Quality Scatterplots Fitted with a LOWESS Curve for DT BROWN #6.



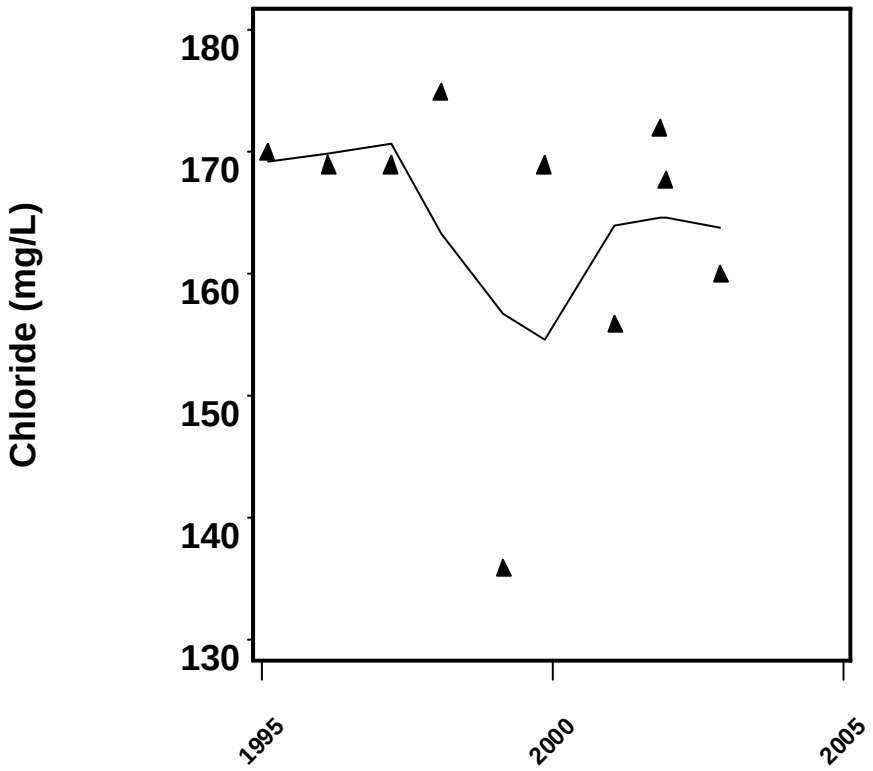


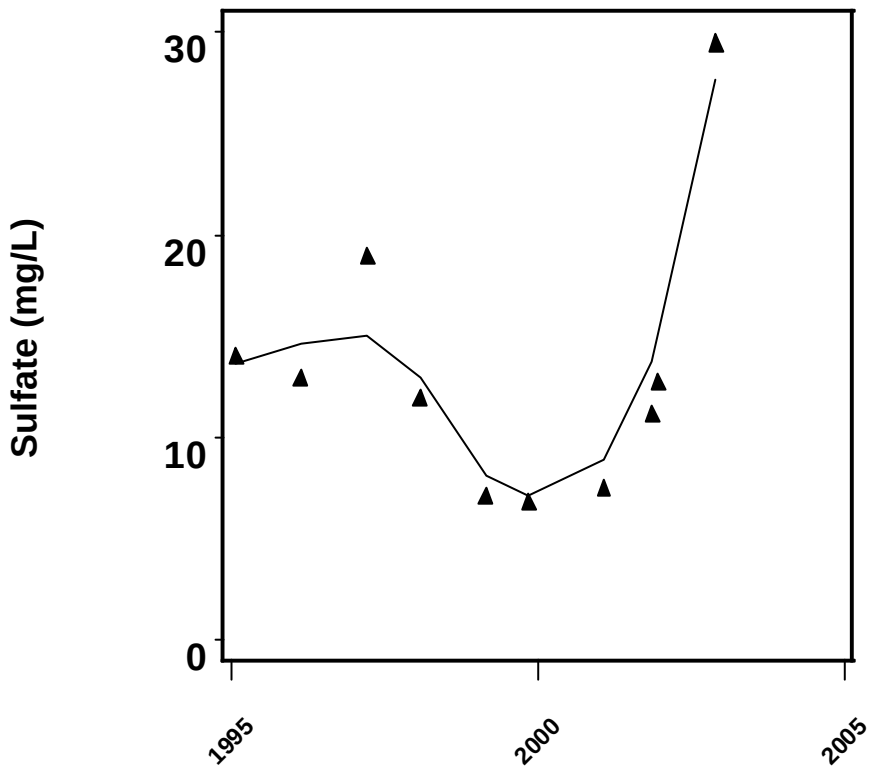
Appendix A-9. Water Quality Scatterplots Fitted with a LOWESS Curve for ENGLEWOOD #14.



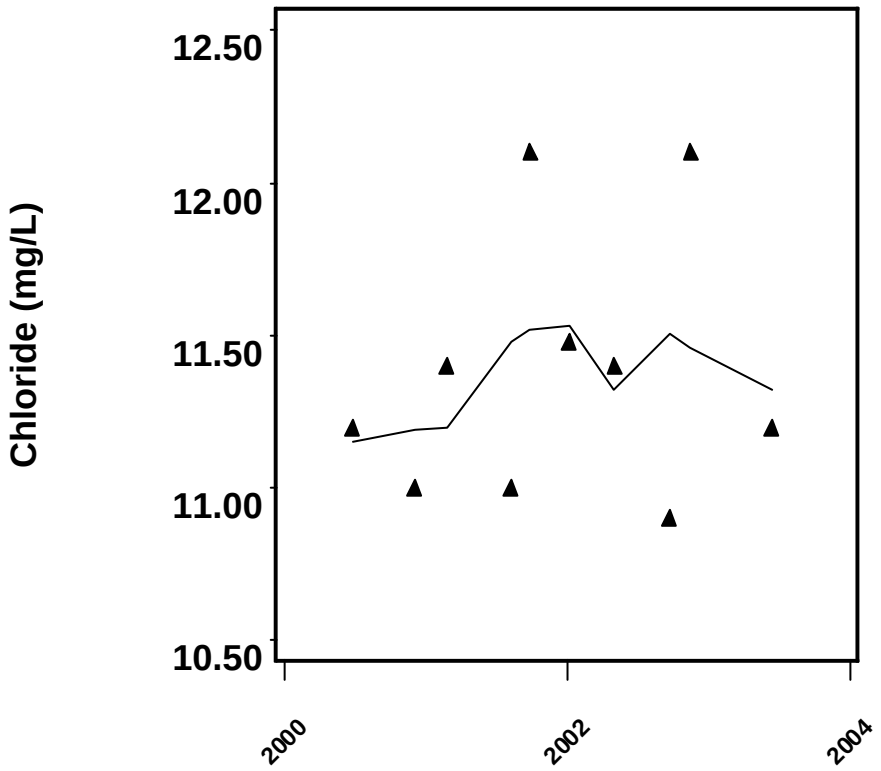


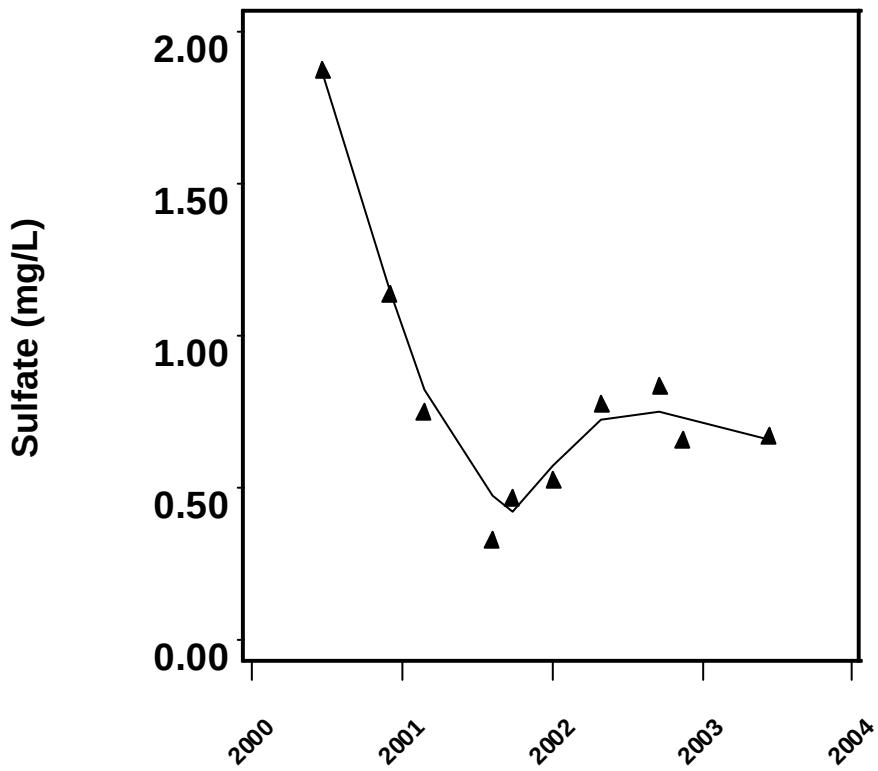
Appendix A-10. Water Quality Scatterplots Fitted with a LOWESS Curve for ENGLEWOOD #5 HAWTHORNE.



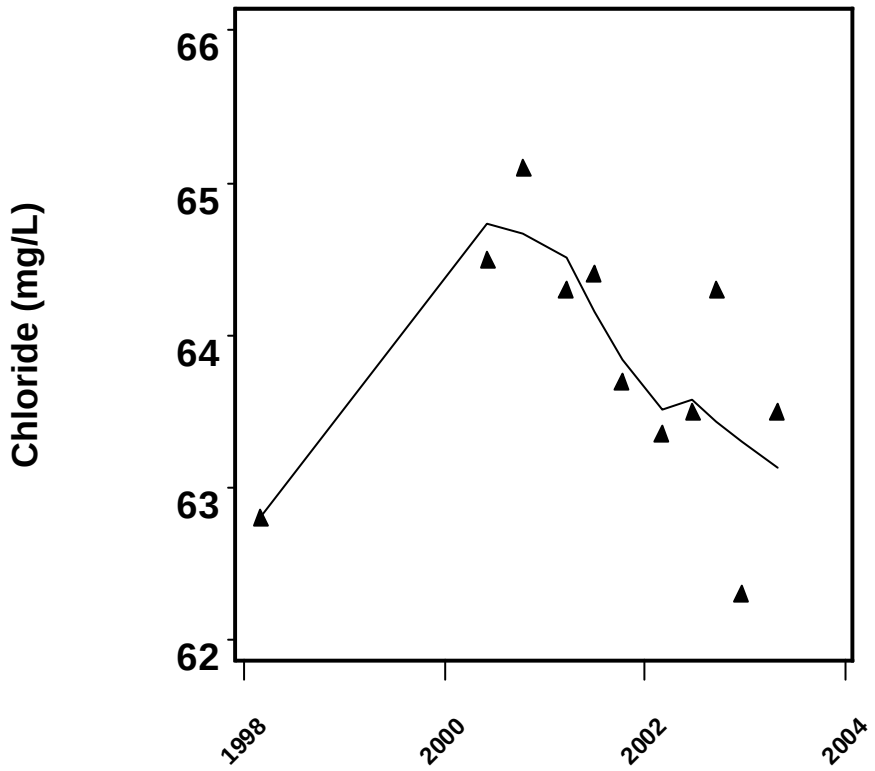


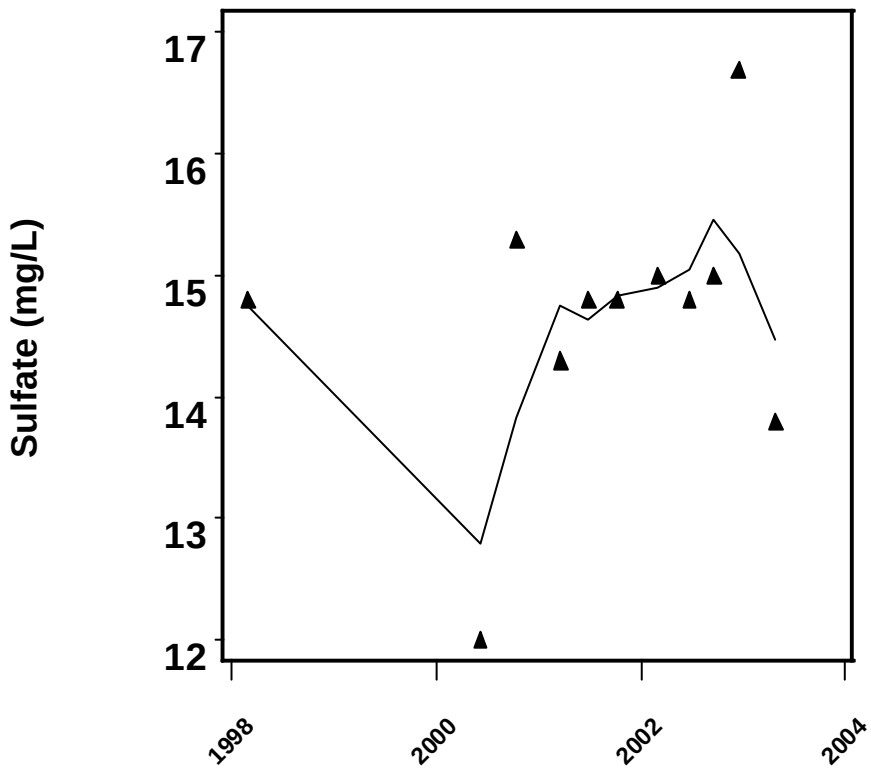
Appendix A-11. Water Quality Scatterplots Fitted with a LOWESS Curve for ENGLEWOOD PROD #5.



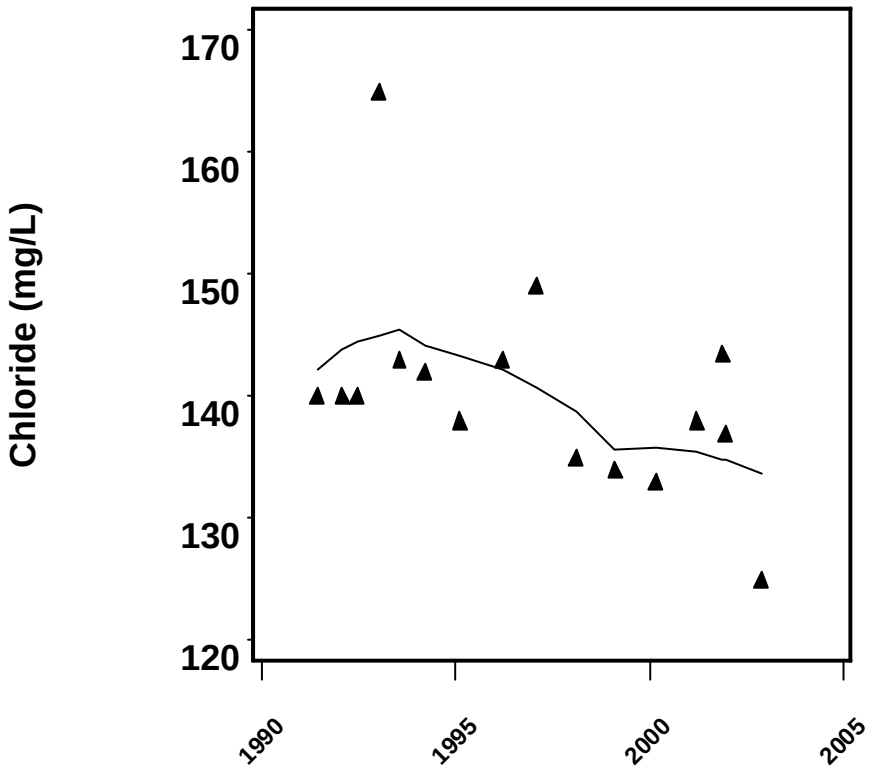


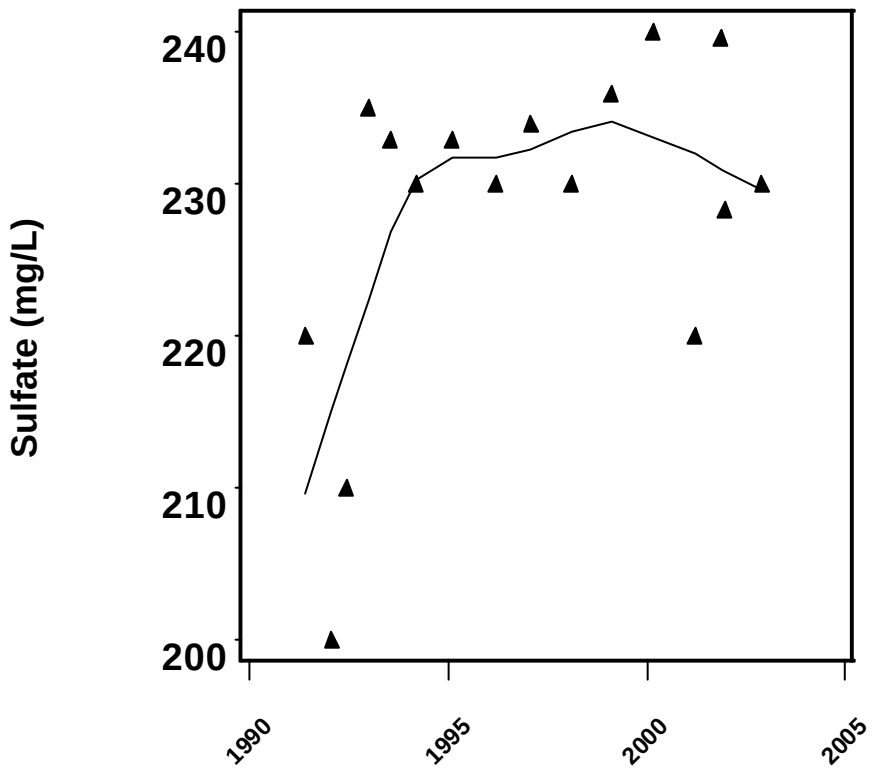
Appendix A-12. Water Quality Scatterplots Fitted with a LOWESS Curve for ESTECH HAWTHORNE 44.



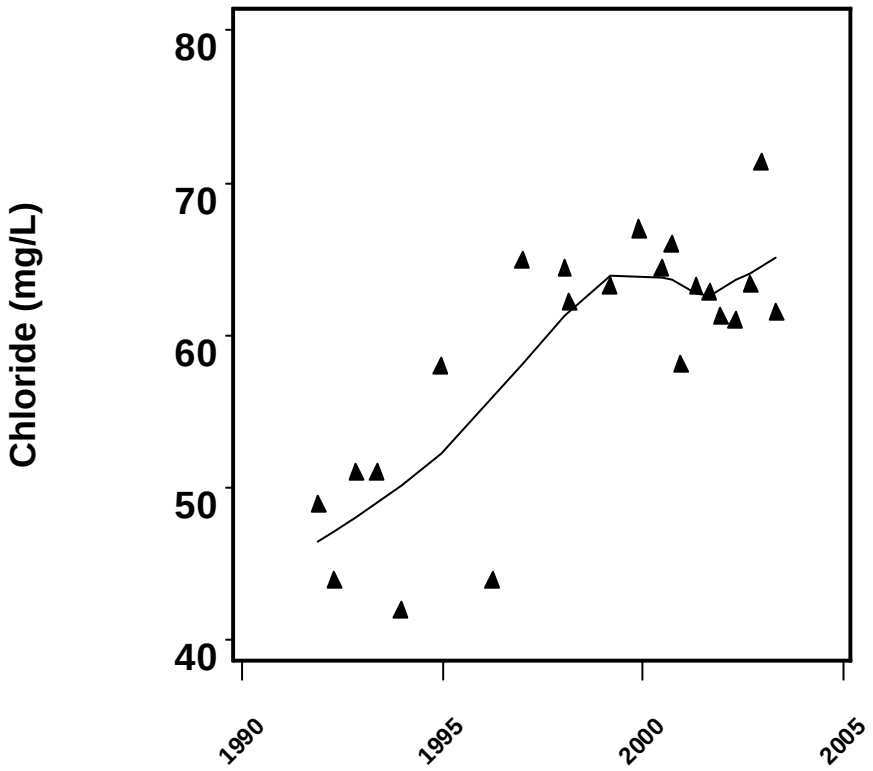


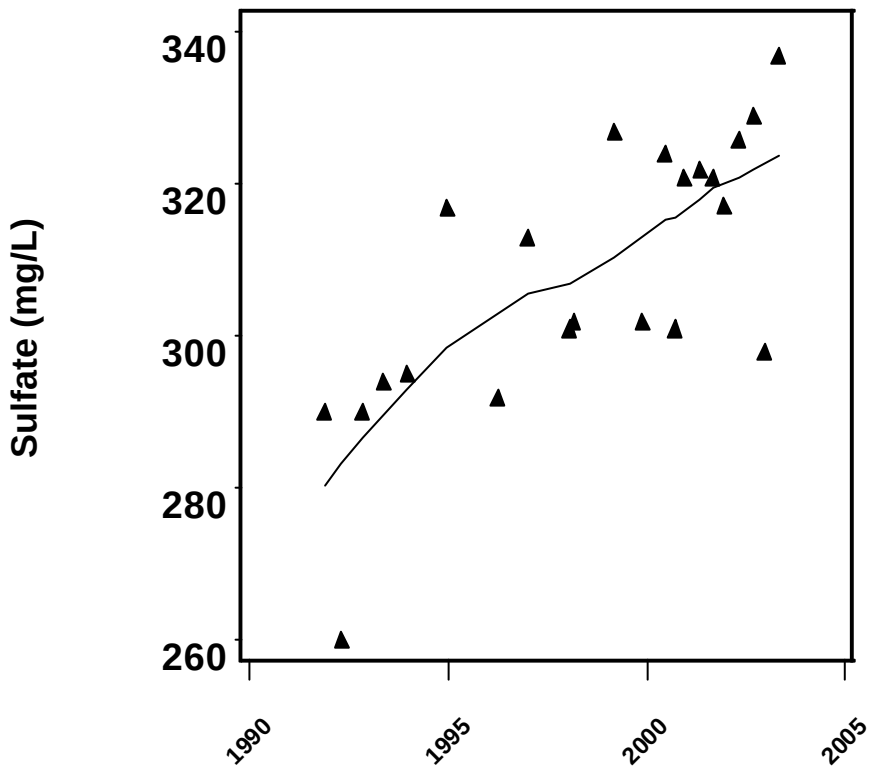
Appendix A-13. Water Quality Scatterplots Fitted with a LOWESS Curve for FT GREEN SPRINGS RD WELL.



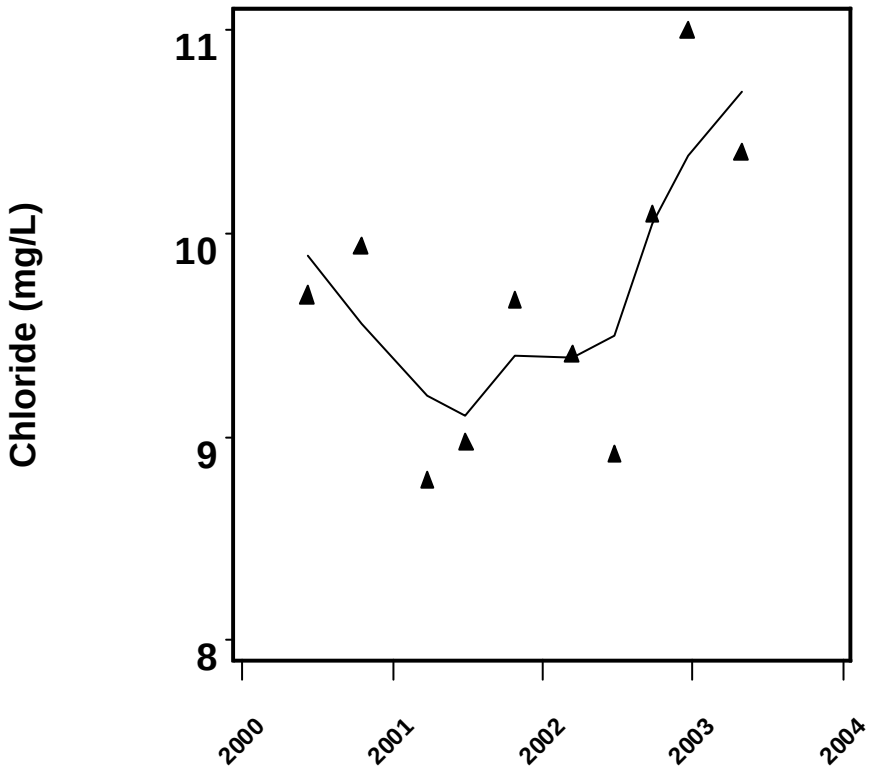


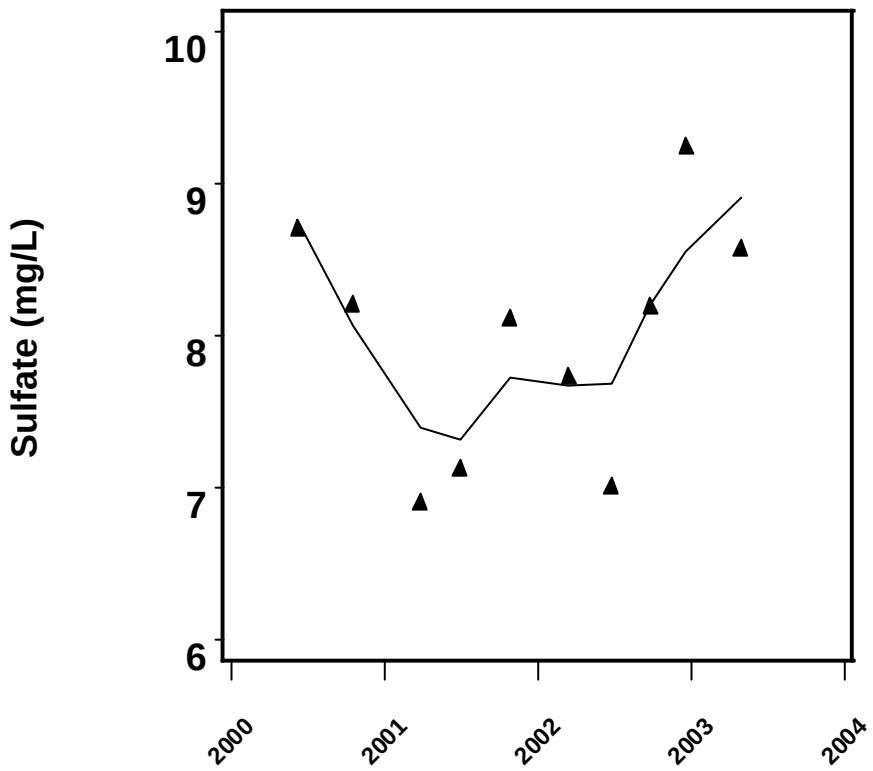
Appendix A-14. Water Quality Scatterplots Fitted with a LOWESS Curve for GDU WELL T-2.



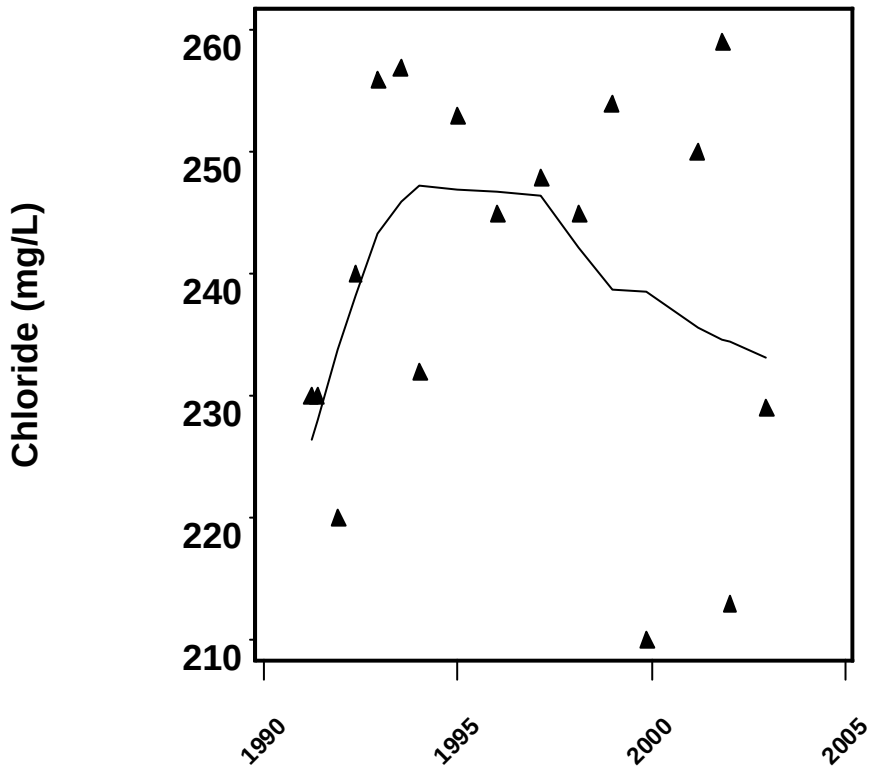


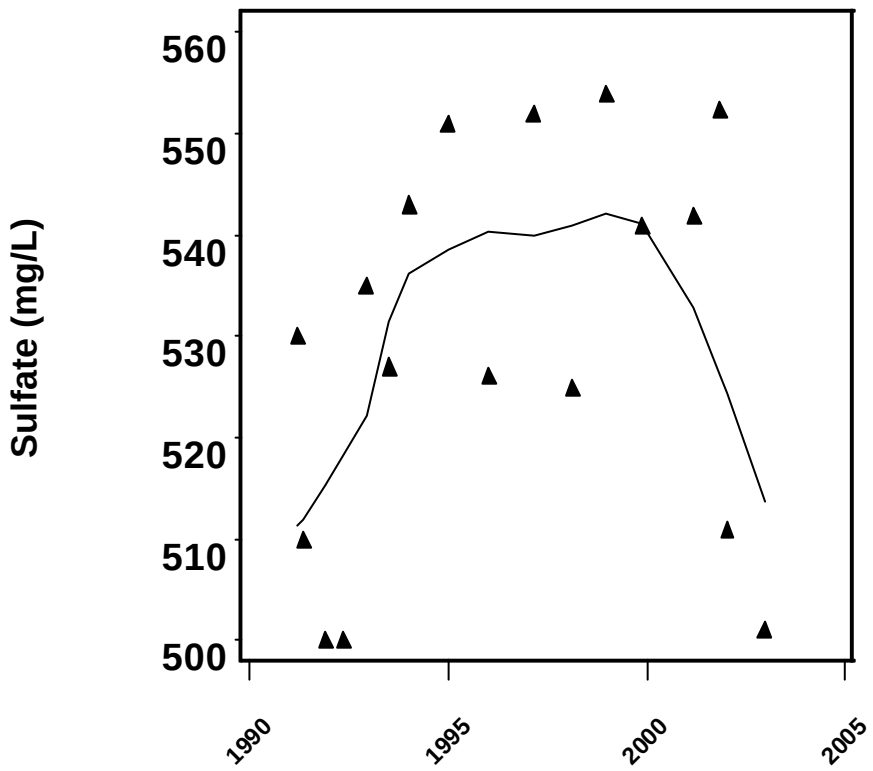
Appendix A-15. Water Quality Scatterplots Fitted with a LOWESS Curve for HILLSBOROUGH WELL 71.



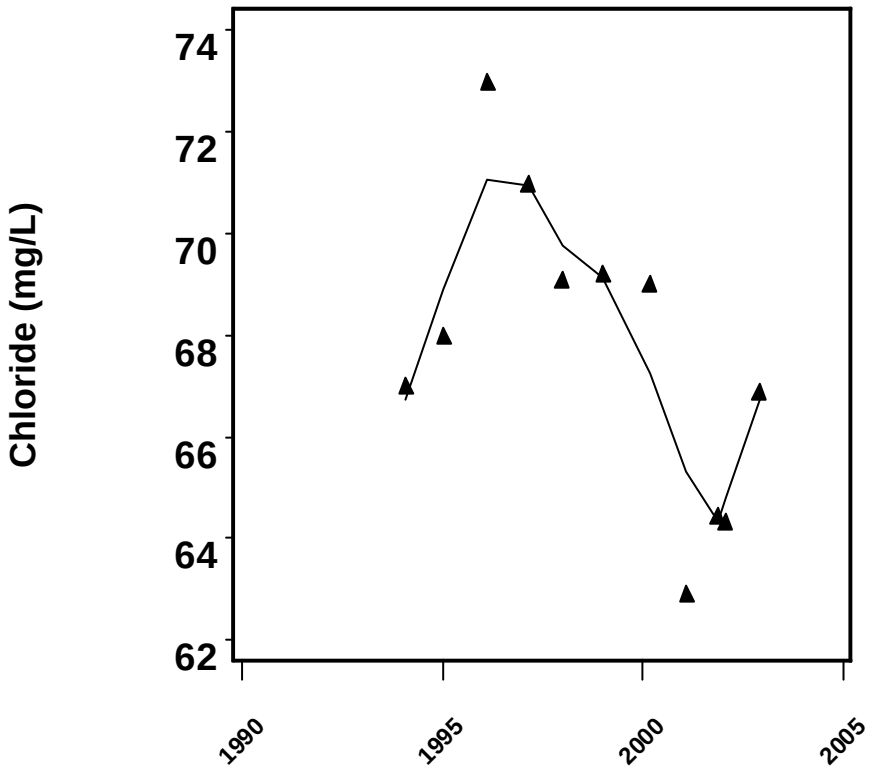


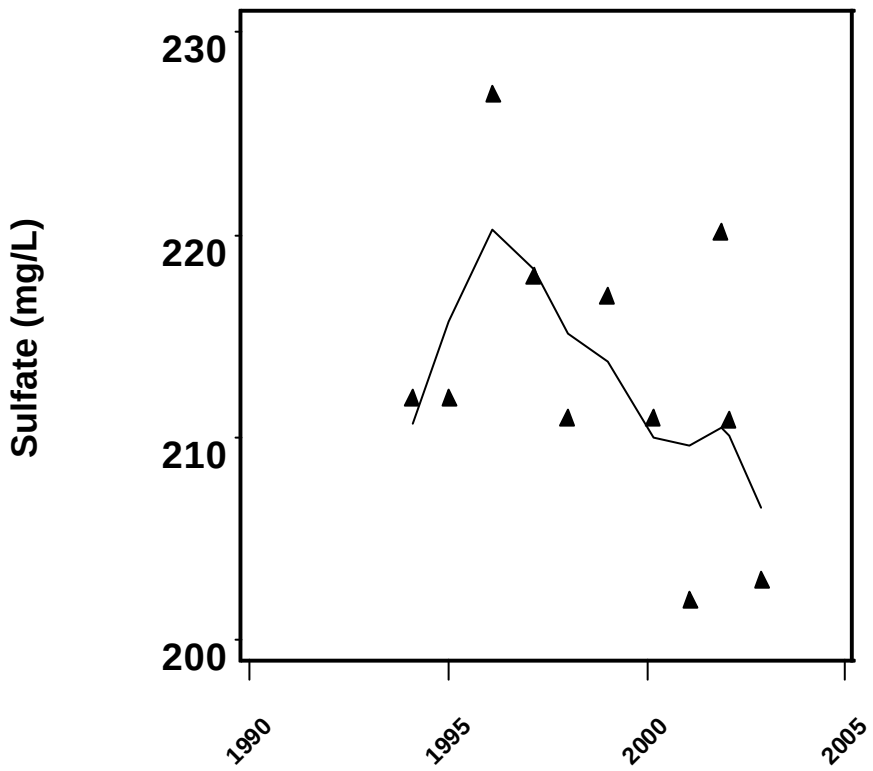
Appendix A-16. Water Quality Scatterplots Fitted with a LOWESS Curve for HOMELAND DEP #4.



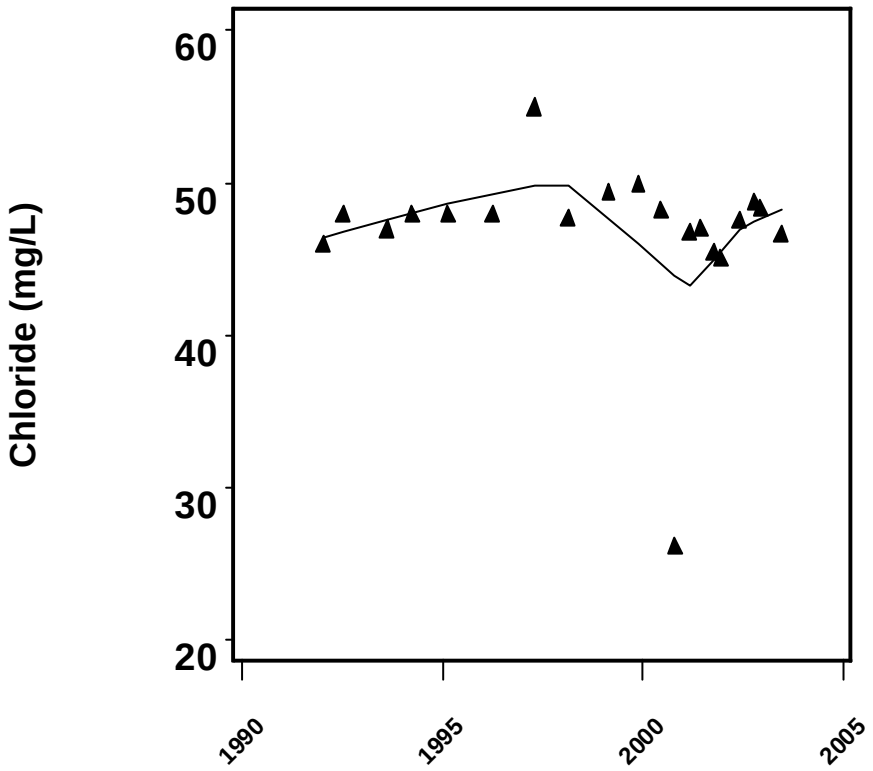


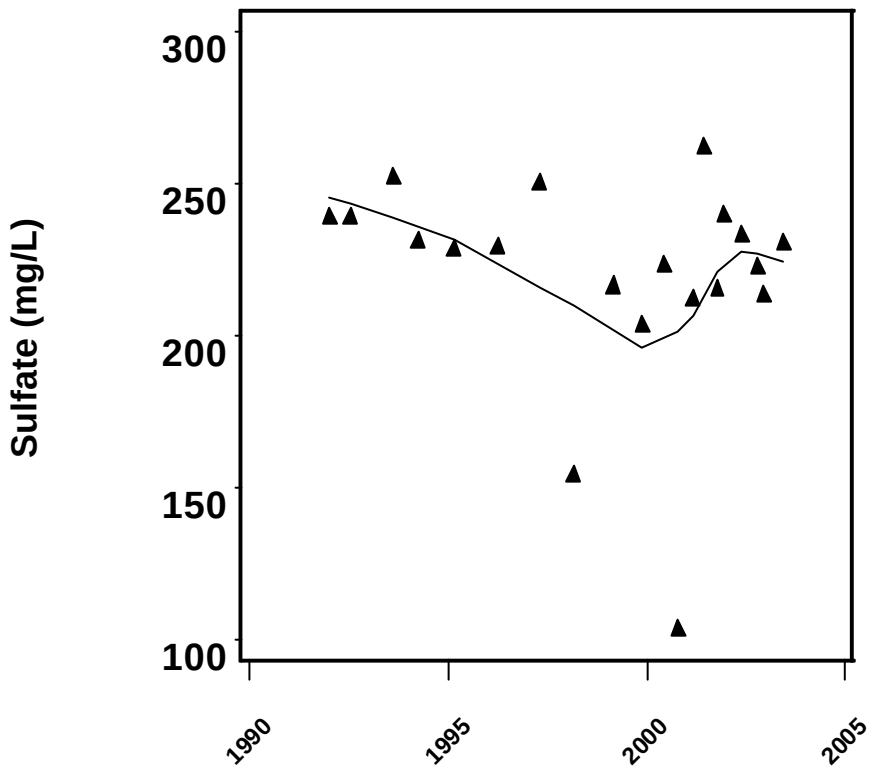
Appendix A-17. Water Quality Scatterplots Fitted with a LOWESS Curve for HORSE SHOE LP TERRA CEIA.



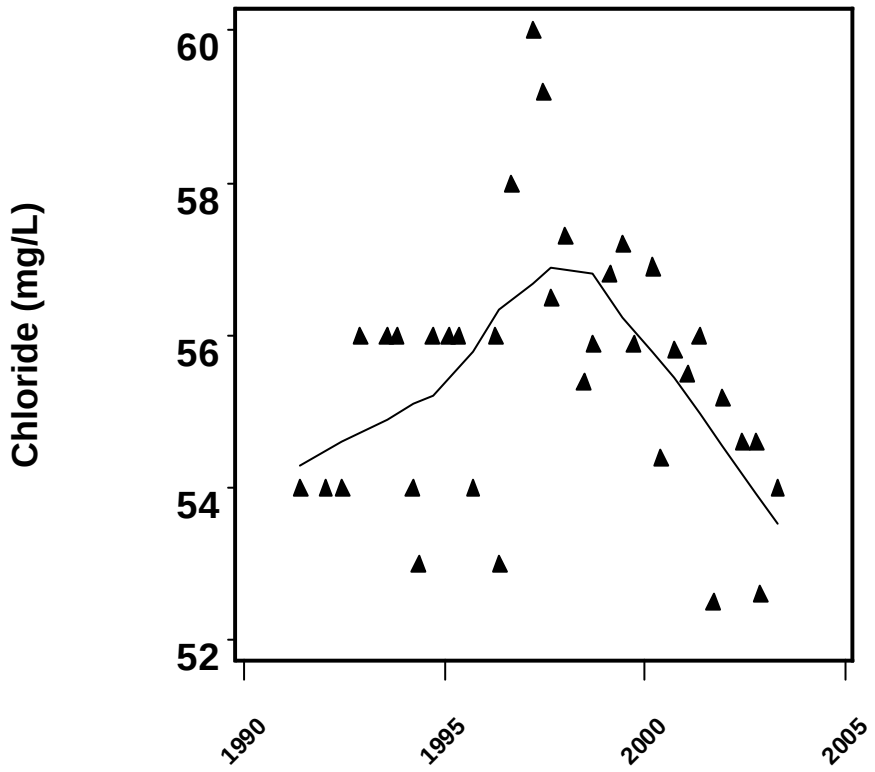


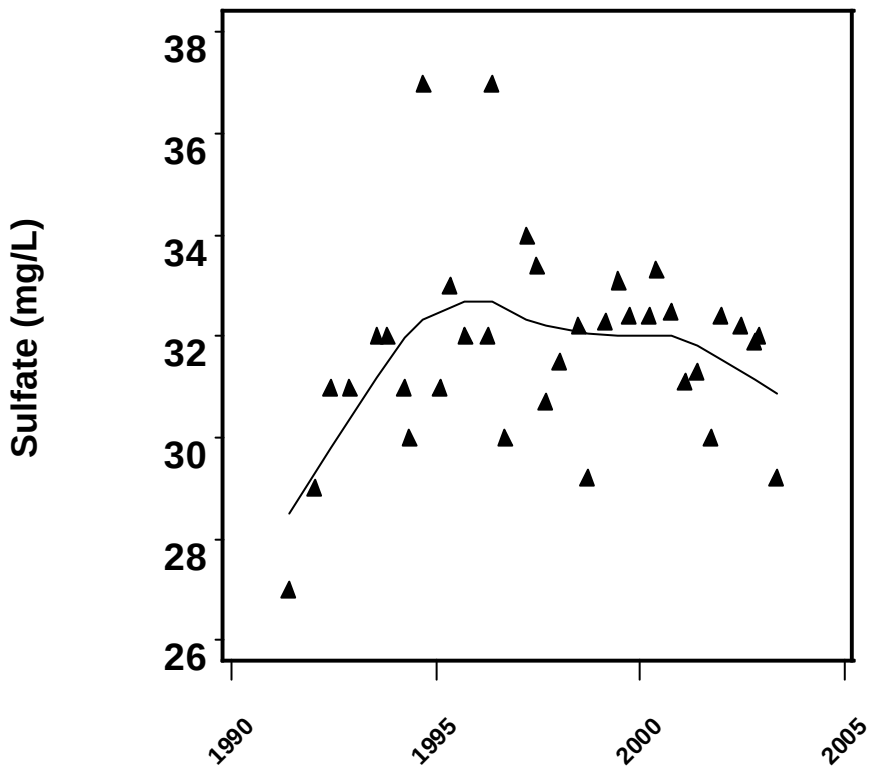
Appendix A-18. Water Quality Scatterplots Fitted with a LOWESS Curve for KNIGHTS TRAIL UP INT.



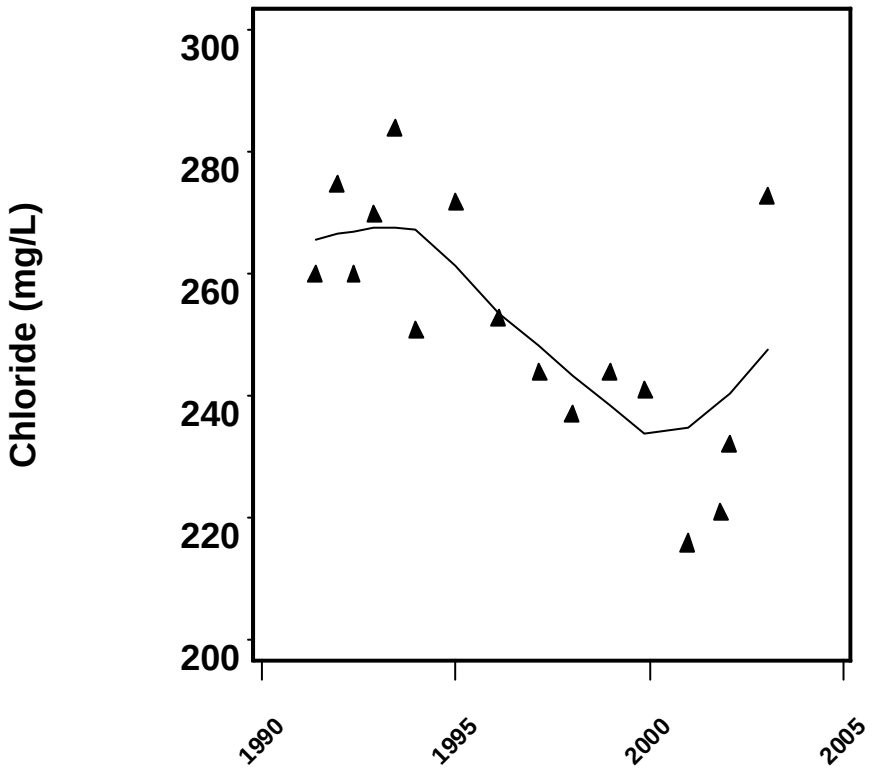


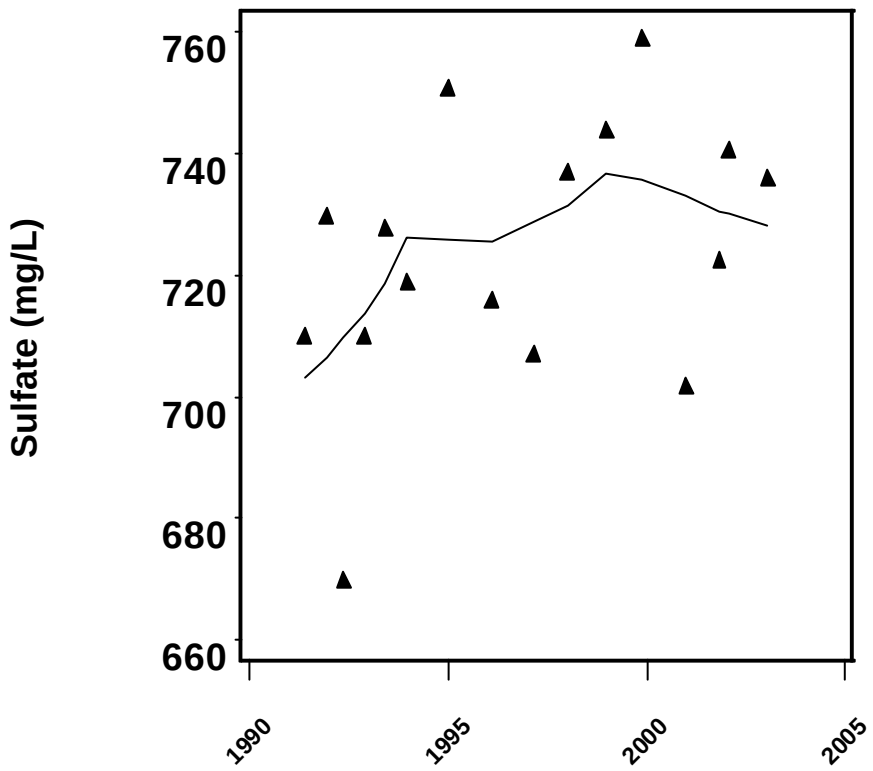
Appendix A-19. Water Quality Scatterplots Fitted with a LOWESS Curve for MABRY CARLTON #6.



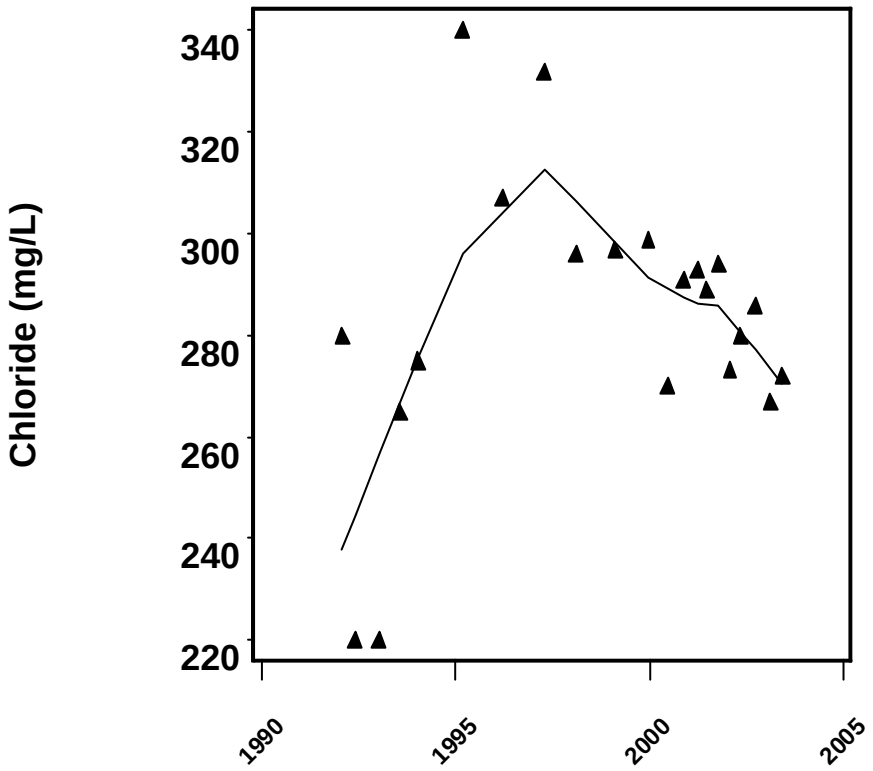


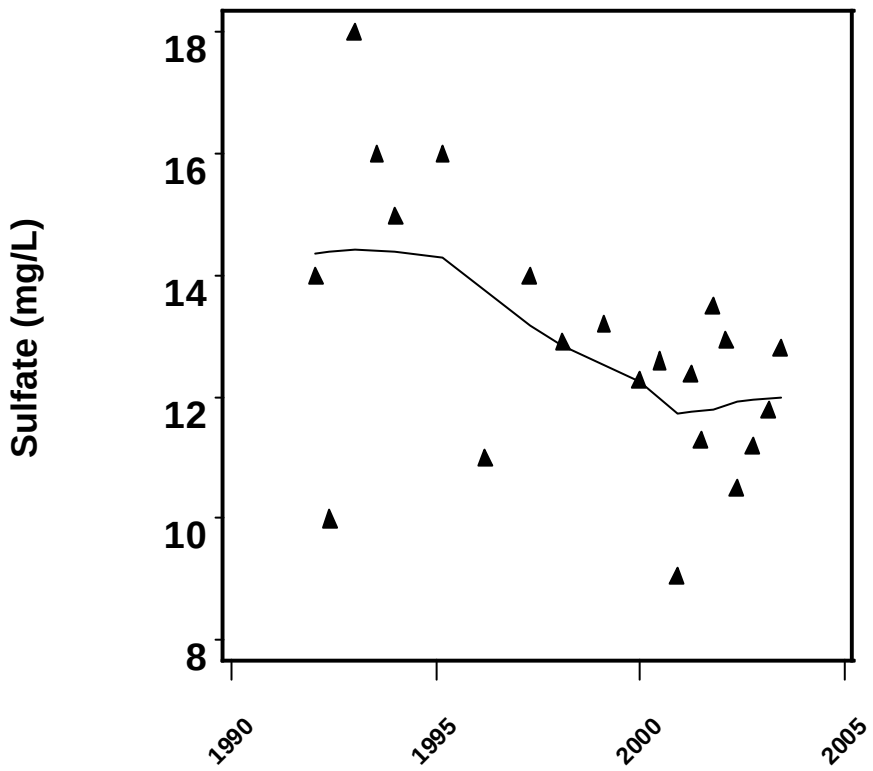
Appendix A-20. Water Quality Scatterplots Fitted with a LOWESS Curve for MANASOTA DEEP #14.



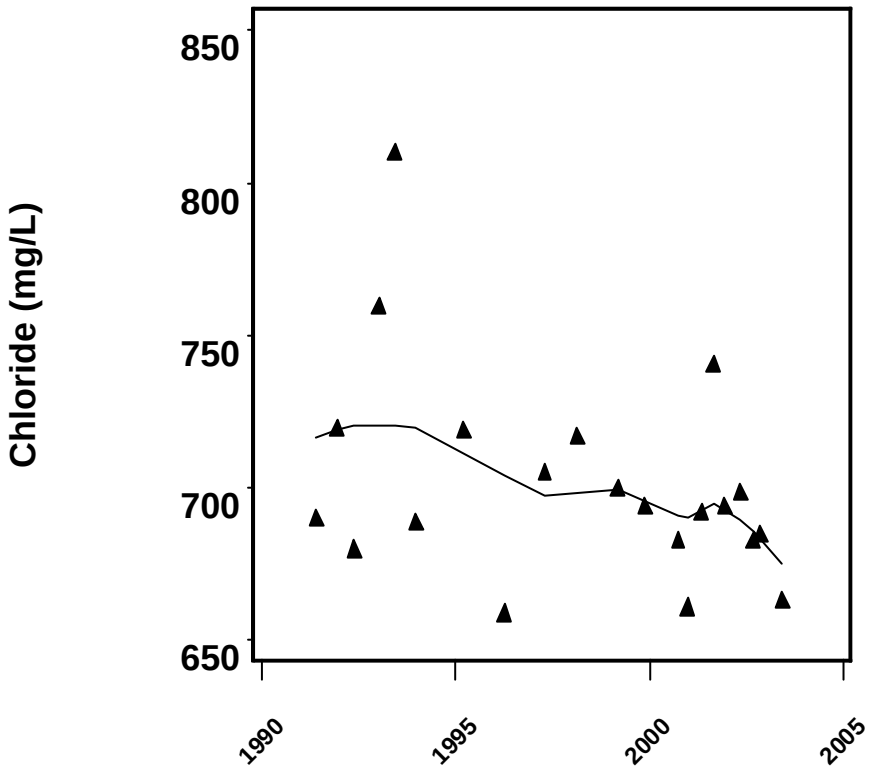


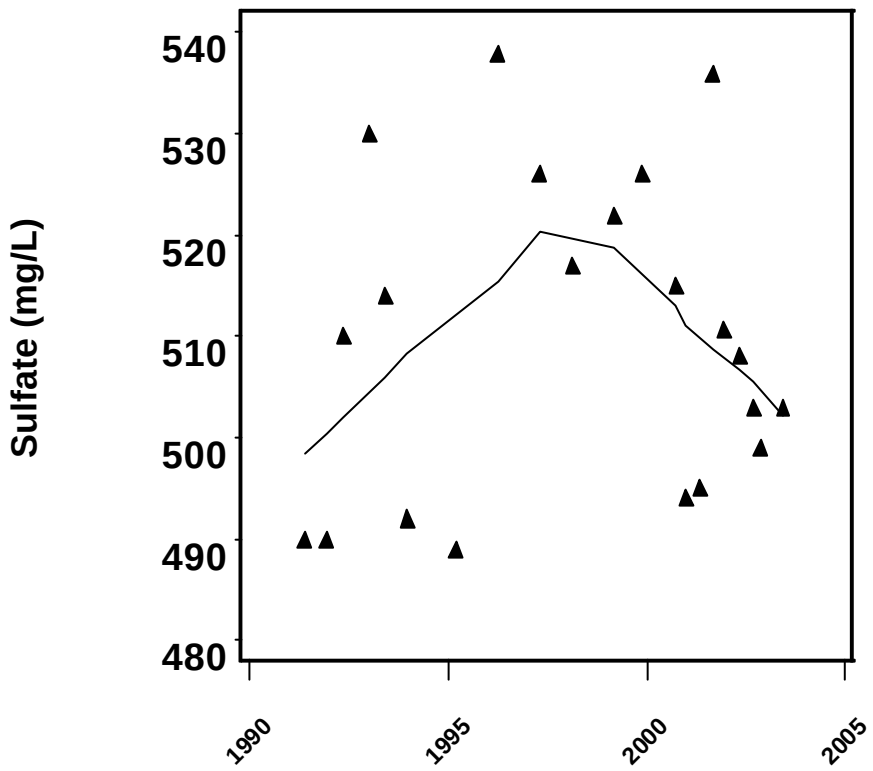
Appendix A-21. Water Quality Scatterplots Fitted with a LOWESS Curve for MANATEE FAIRGROUNDS.



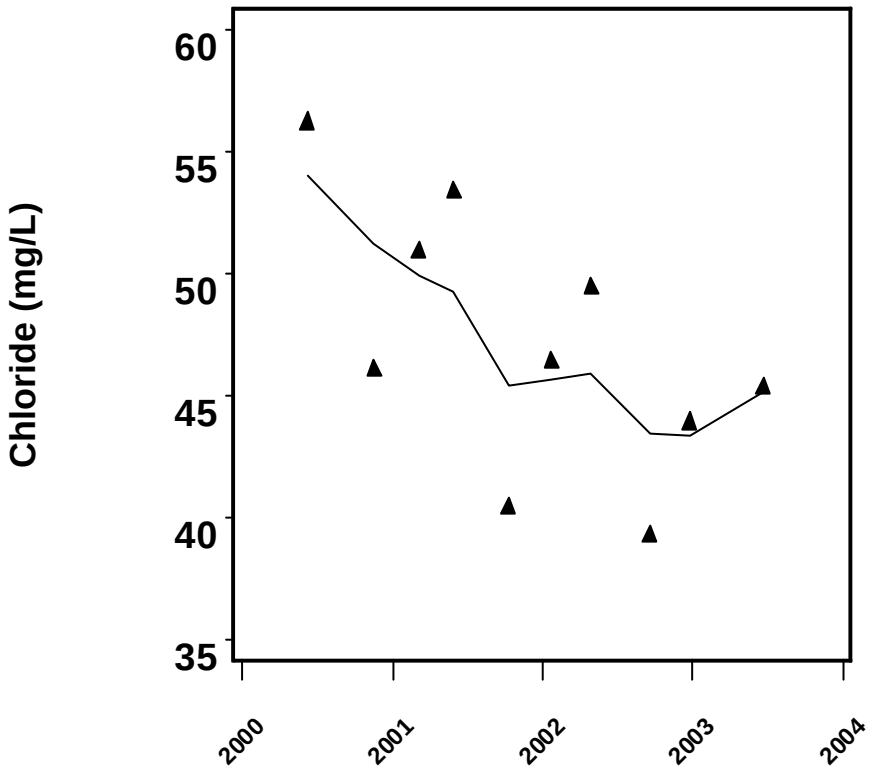


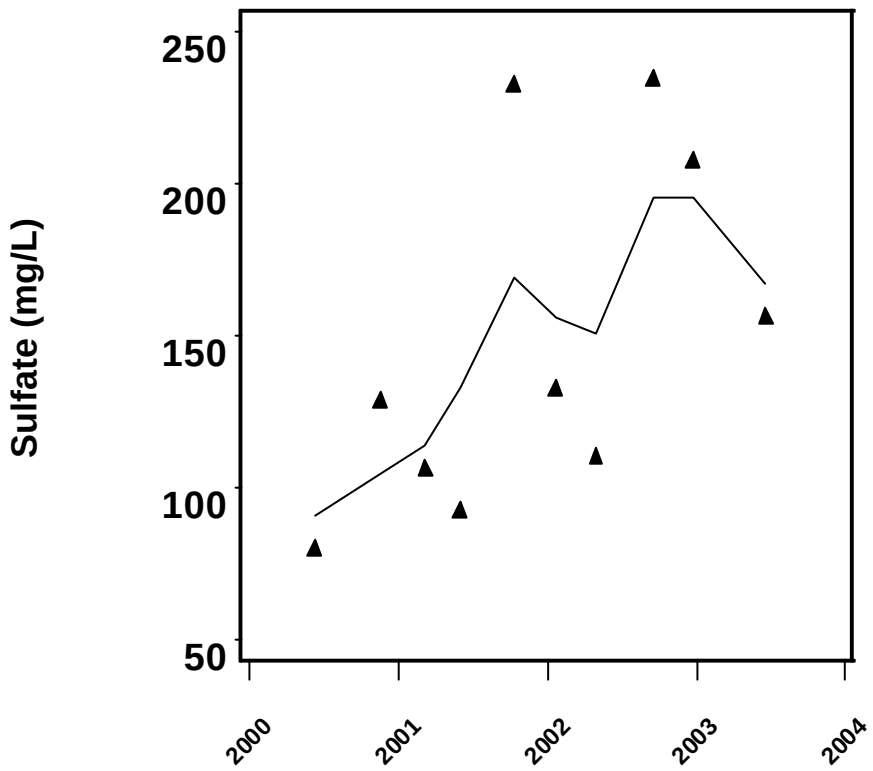
Appendix A-22. Water Quality Scatterplots Fitted with a LOWESS Curve for NAFCO GROVES INT.



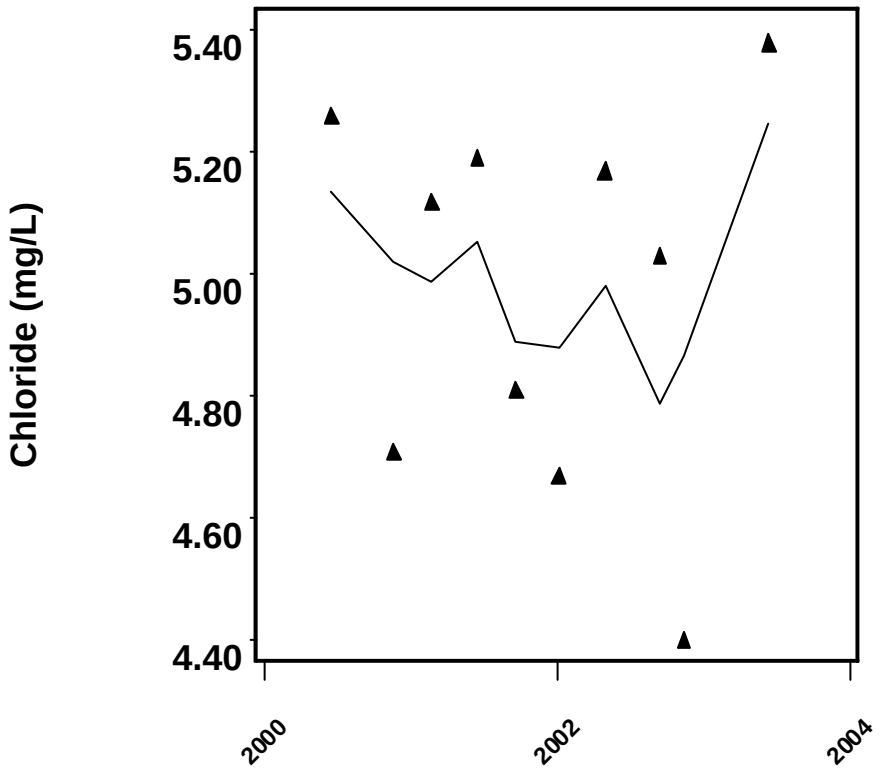


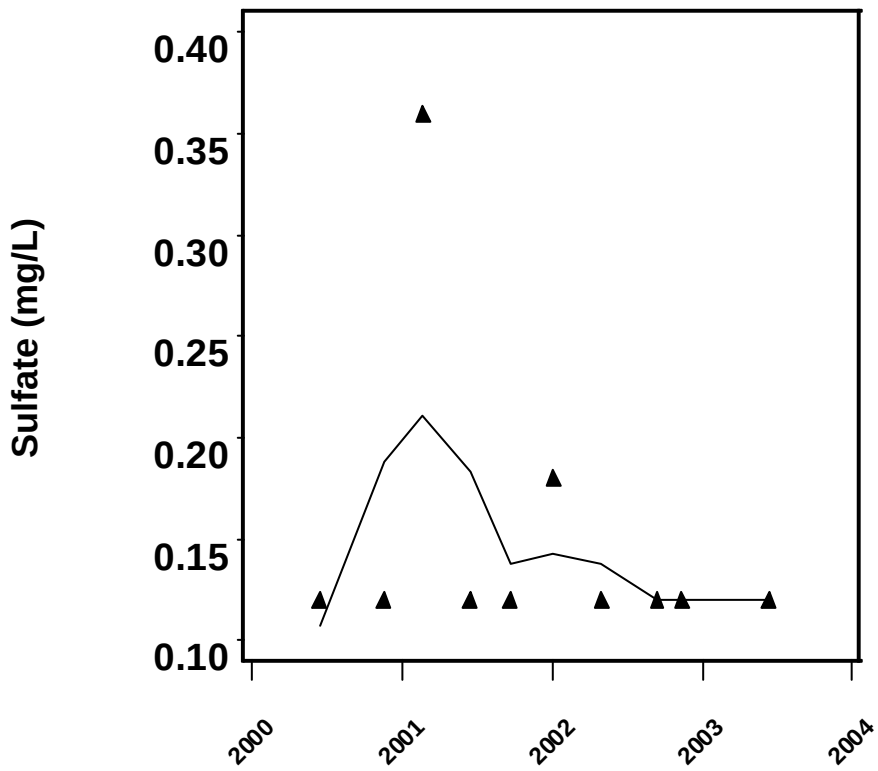
Appendix A-23. Water Quality Scatterplots Fitted with a LOWESS Curve for PALMA SOLA – W DAVIS.



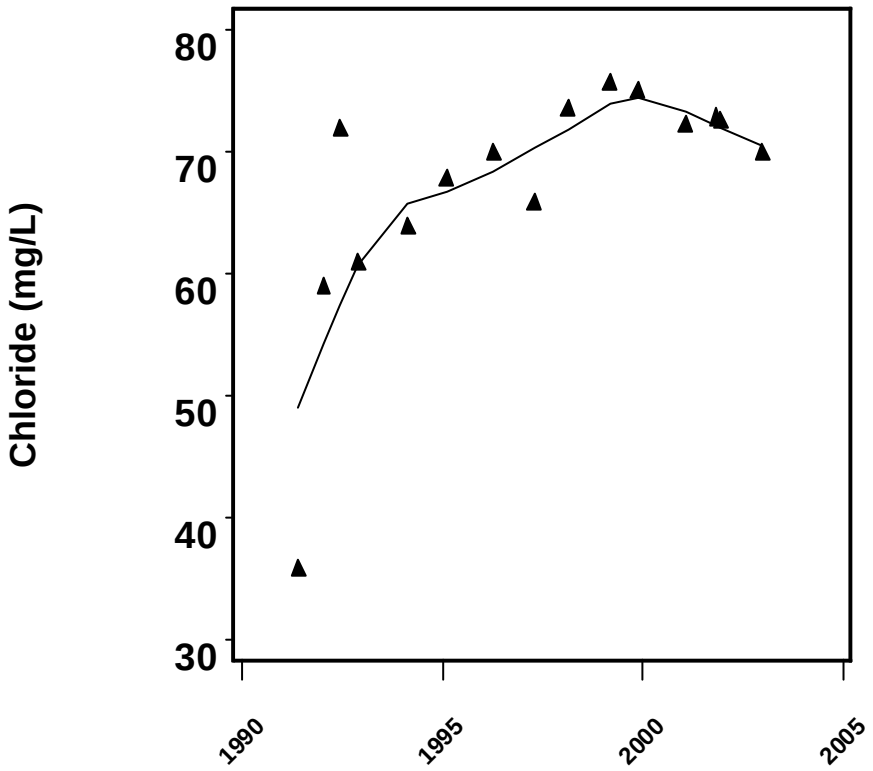


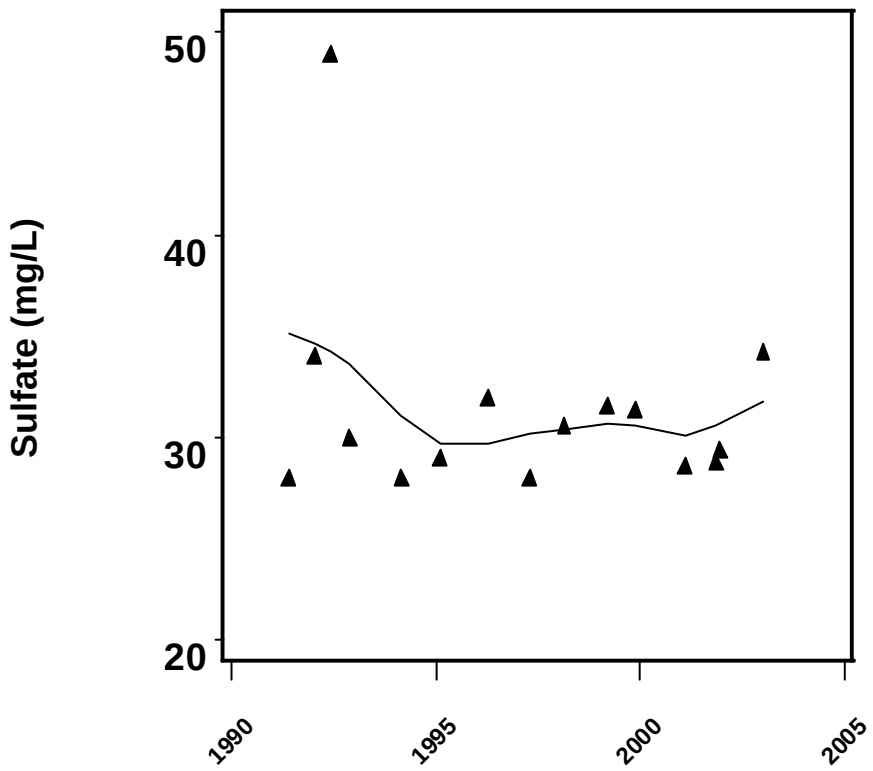
Appendix A-24. Water Quality Scatterplots Fitted with a LOWESS Curve for PALMER WELL.



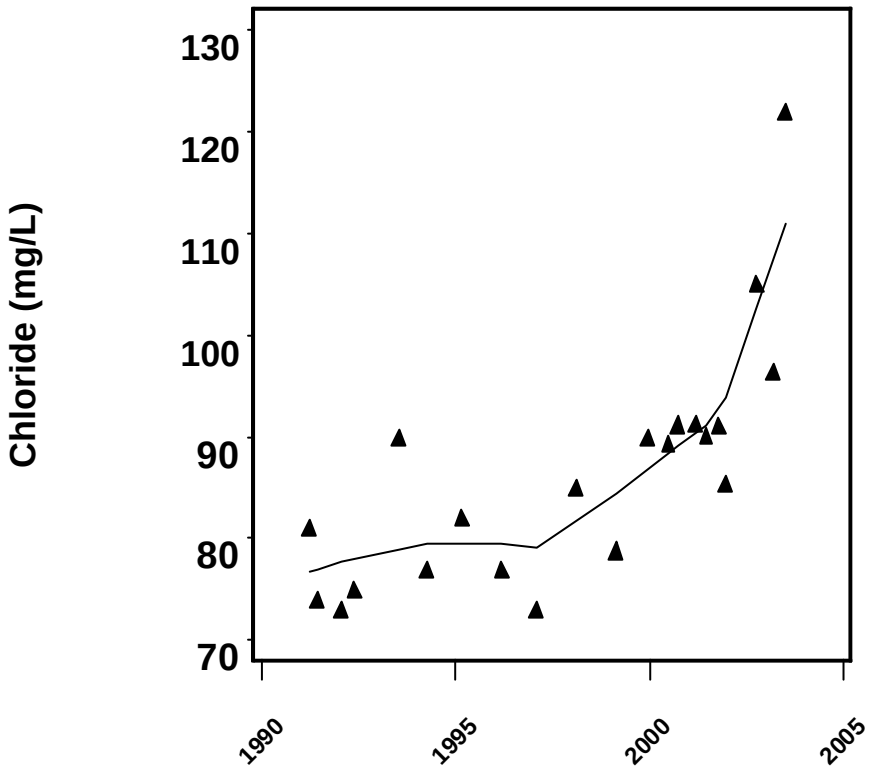


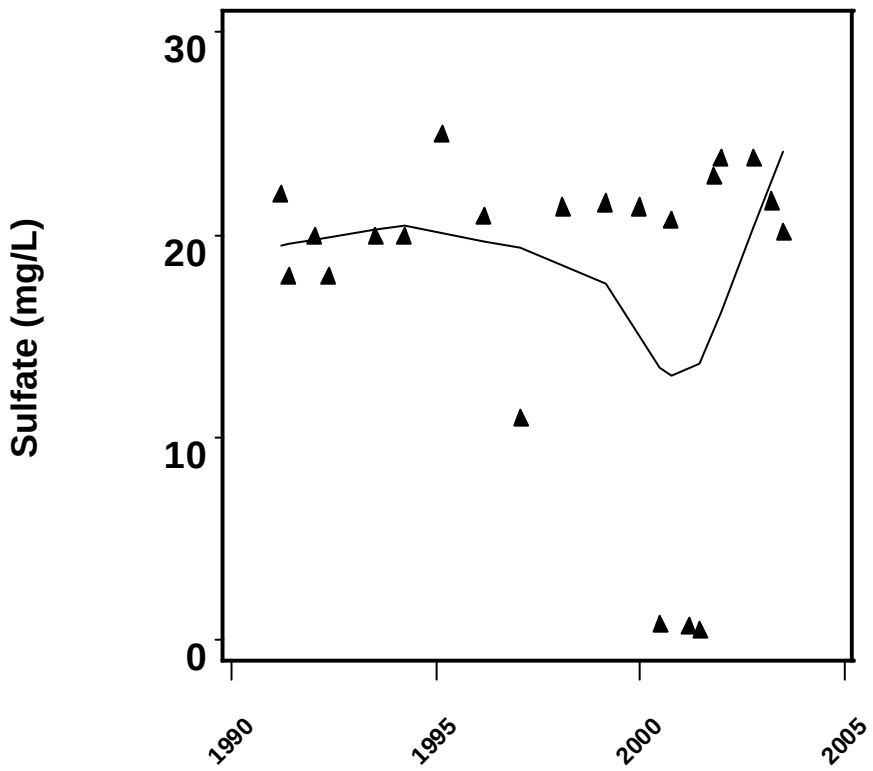
Appendix A-25. Water Quality Scatterplots Fitted with a LOWESS Curve for PATRICIA GALLAGHER.



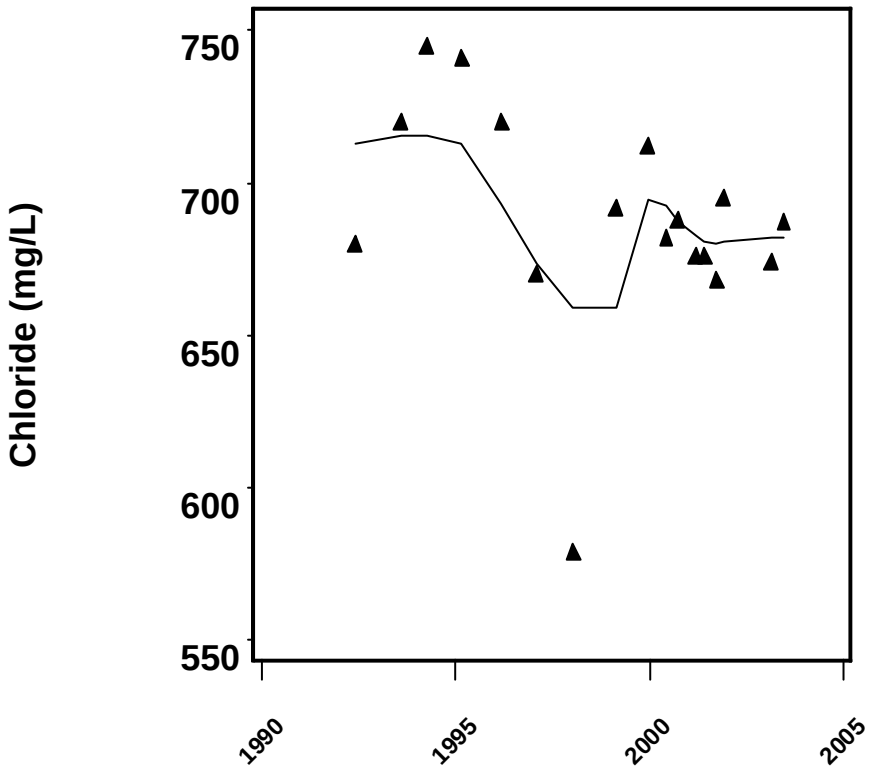


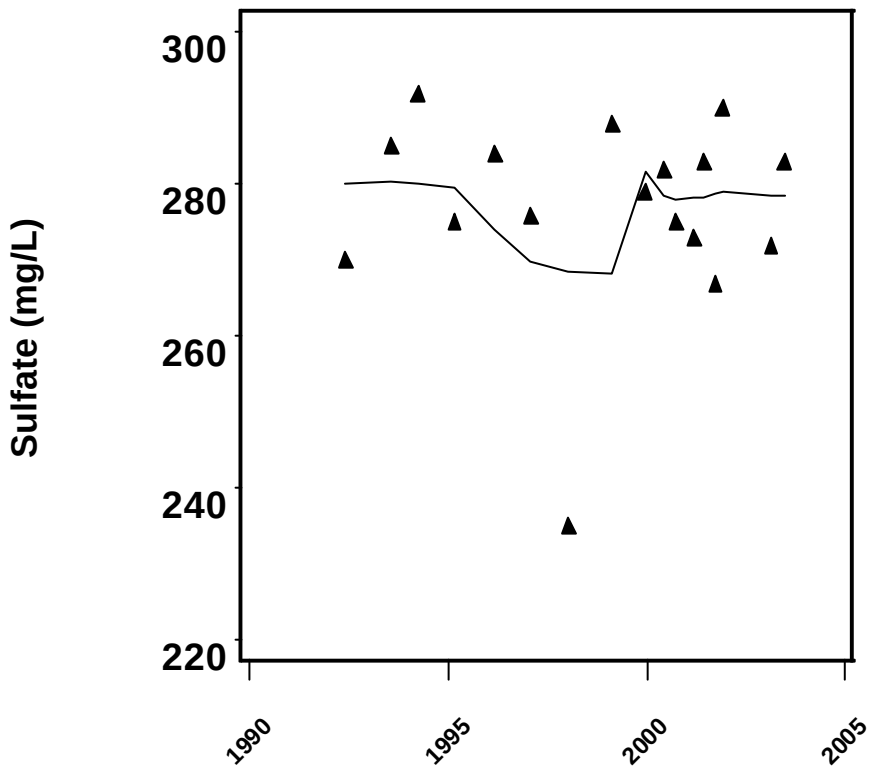
Appendix A-26. Water Quality Scatterplots Fitted with a LOWESS Curve for PLANTATION HAWTHORNE.



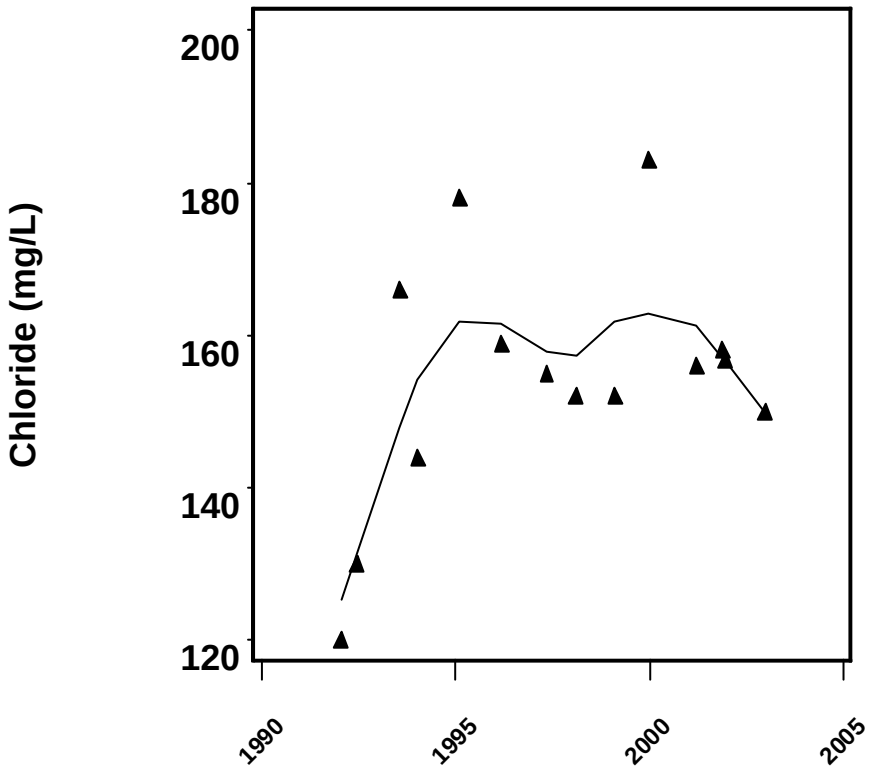


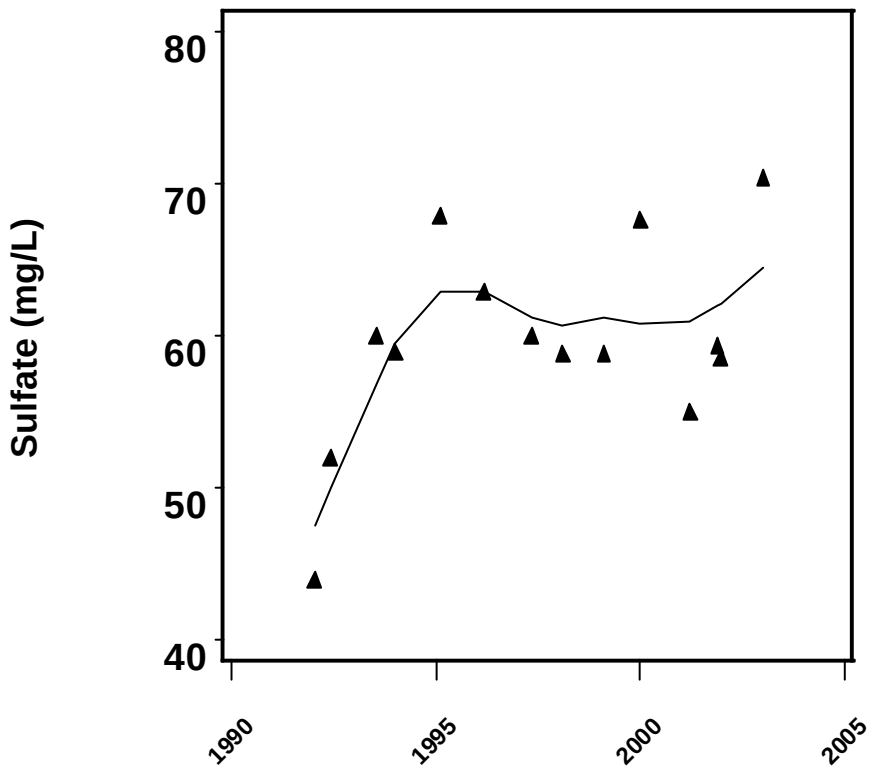
Appendix A-27. Water Quality Scatterplots Fitted with a LOWESS Curve for PORT CHARLOTTE UTIL DEEP.



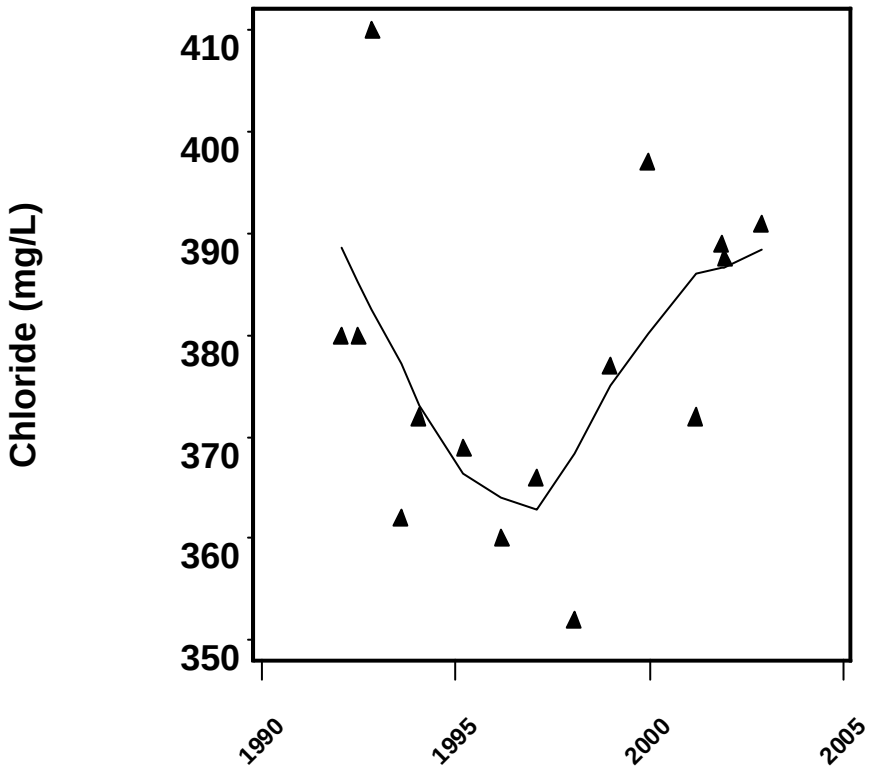


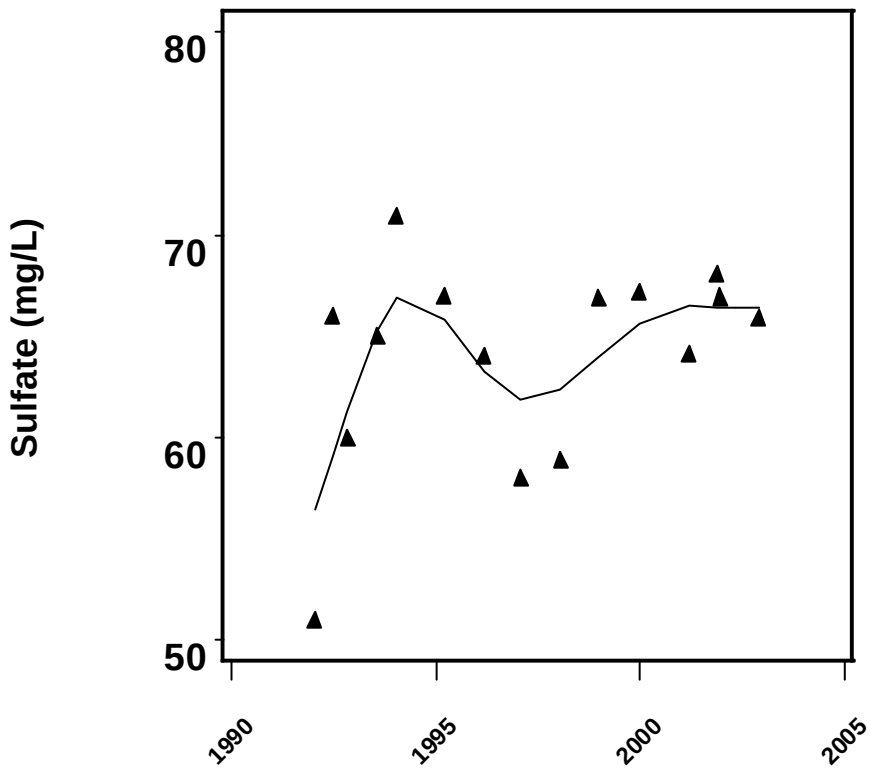
Appendix A-28. Water Quality Scatterplots Fitted with a LOWESS Curve for PORT CHARLOTTE DEEP.



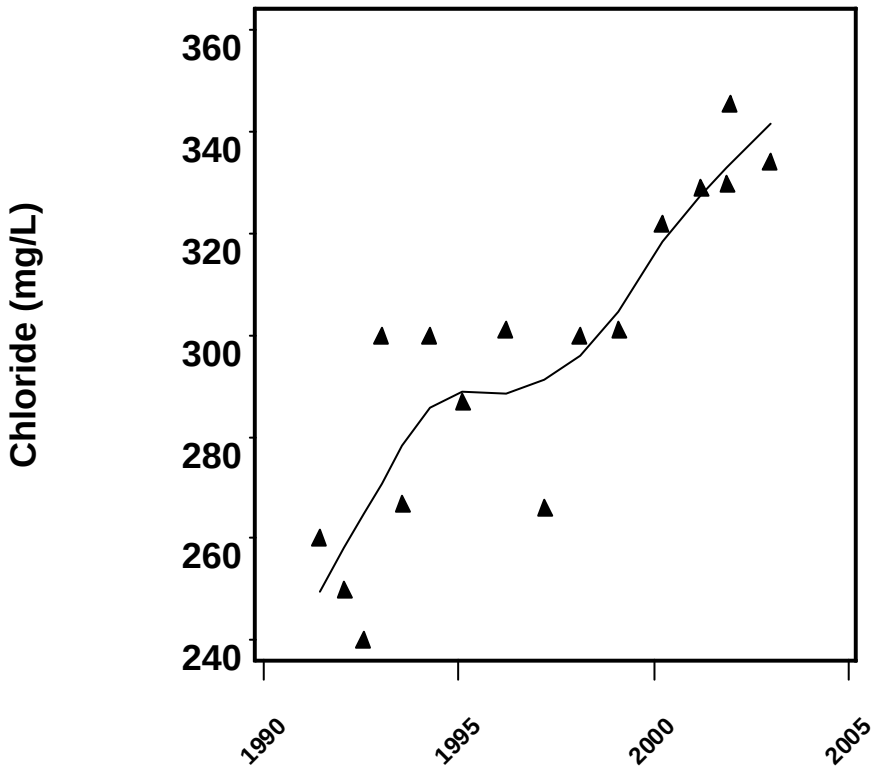


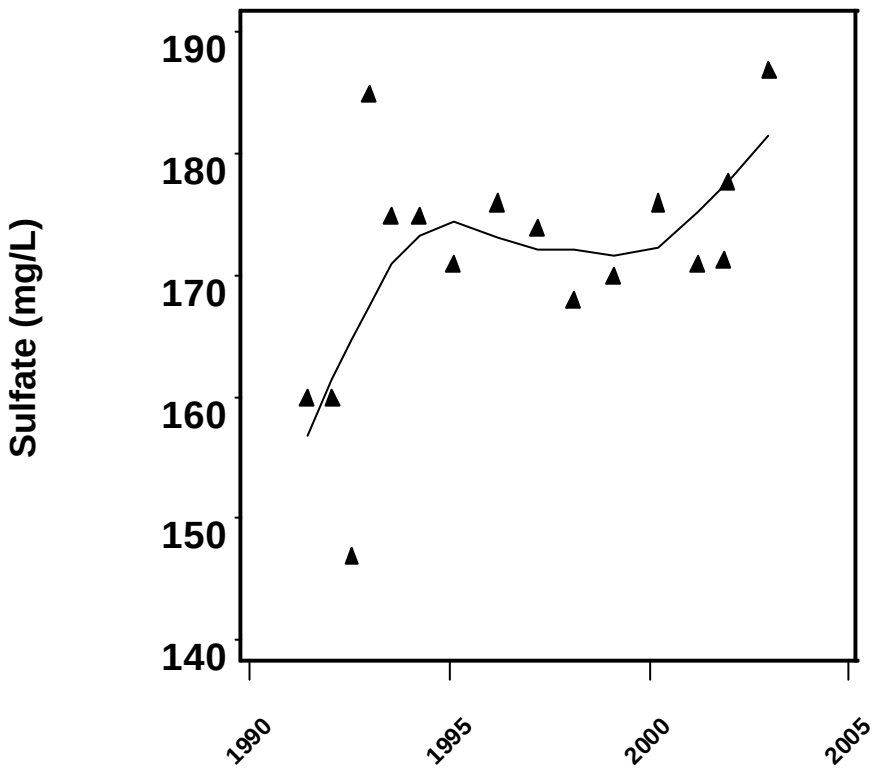
Appendix A-29. Water Quality Scatterplots Fitted with a LOWESS Curve for PRARIE CR UP INT-AG.



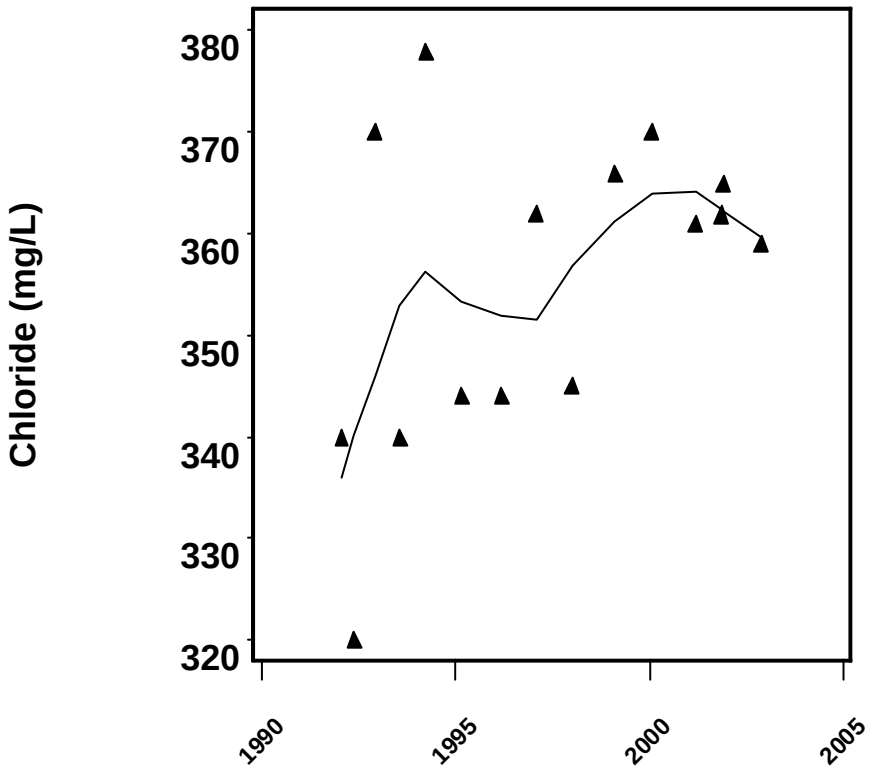


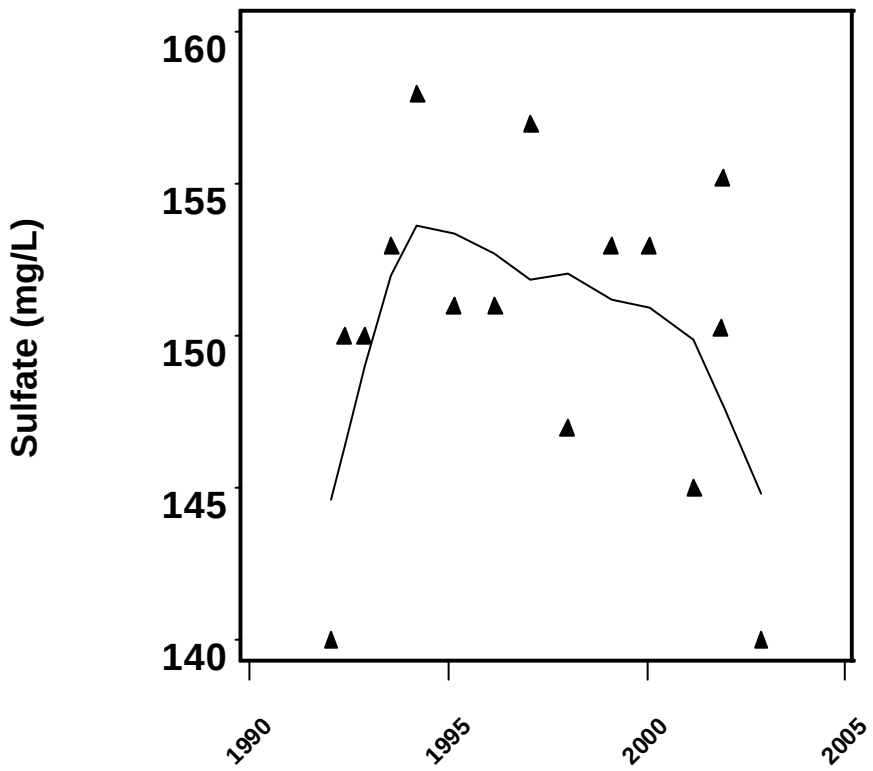
Appendix A-30. Water Quality Scatterplots Fitted with a LOWESS Curve for PUNTA GORDA HEIGHTS.



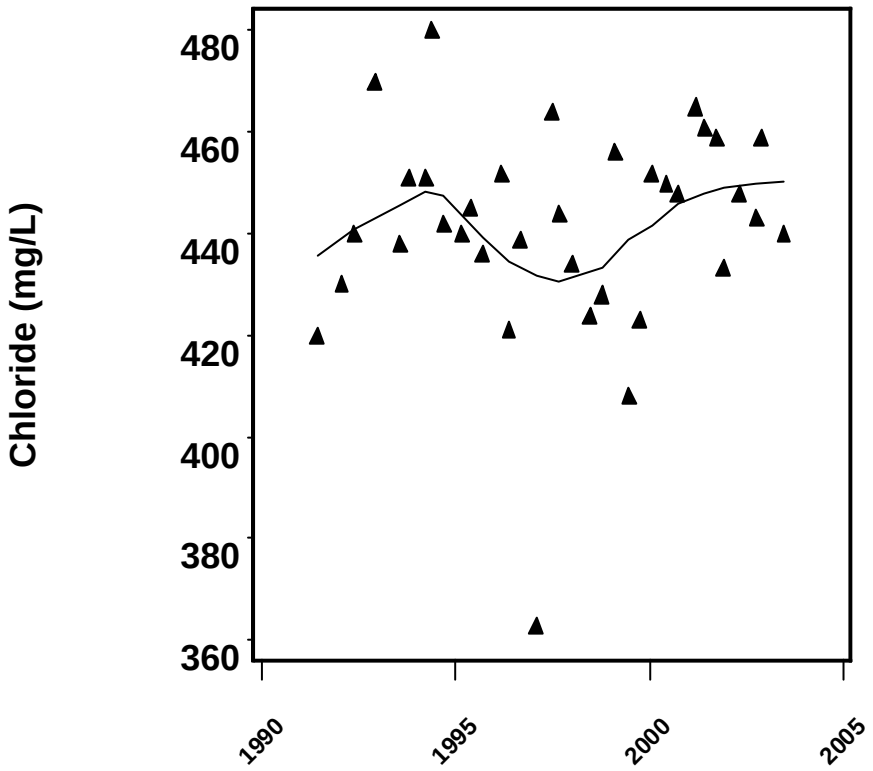


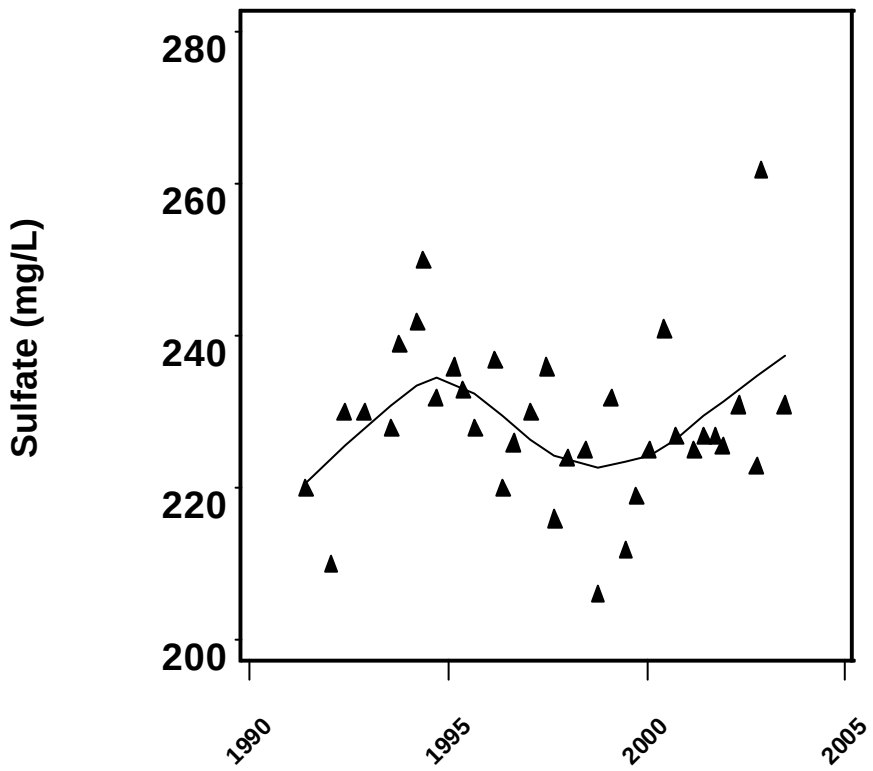
Appendix A-31. Water Quality Scatterplots Fitted with a LOWESS Curve for ROB LANE (G. V. RUSSELL).



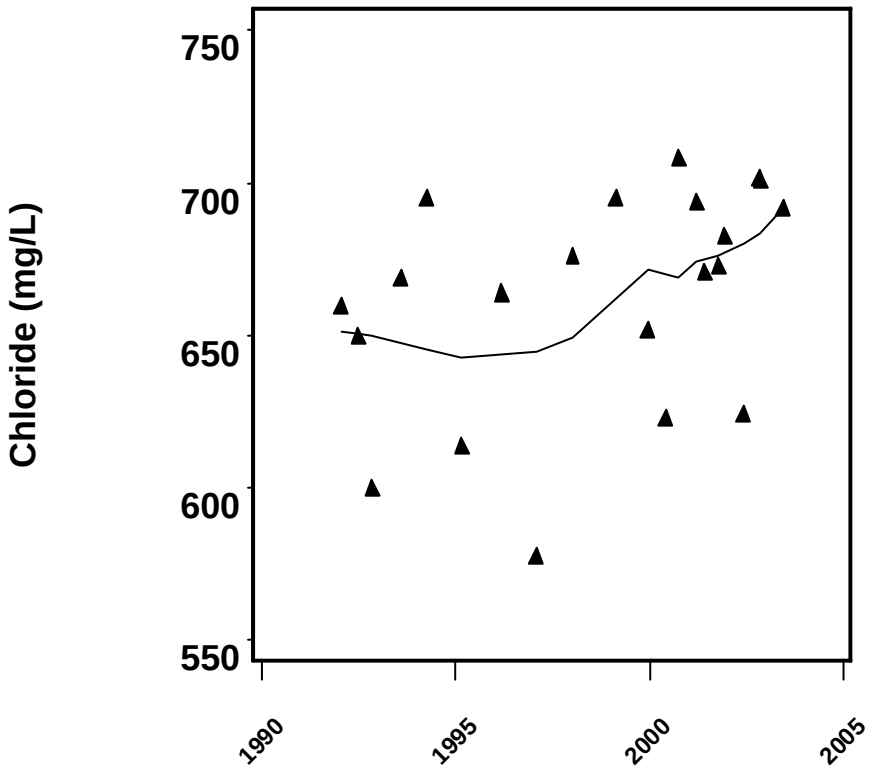


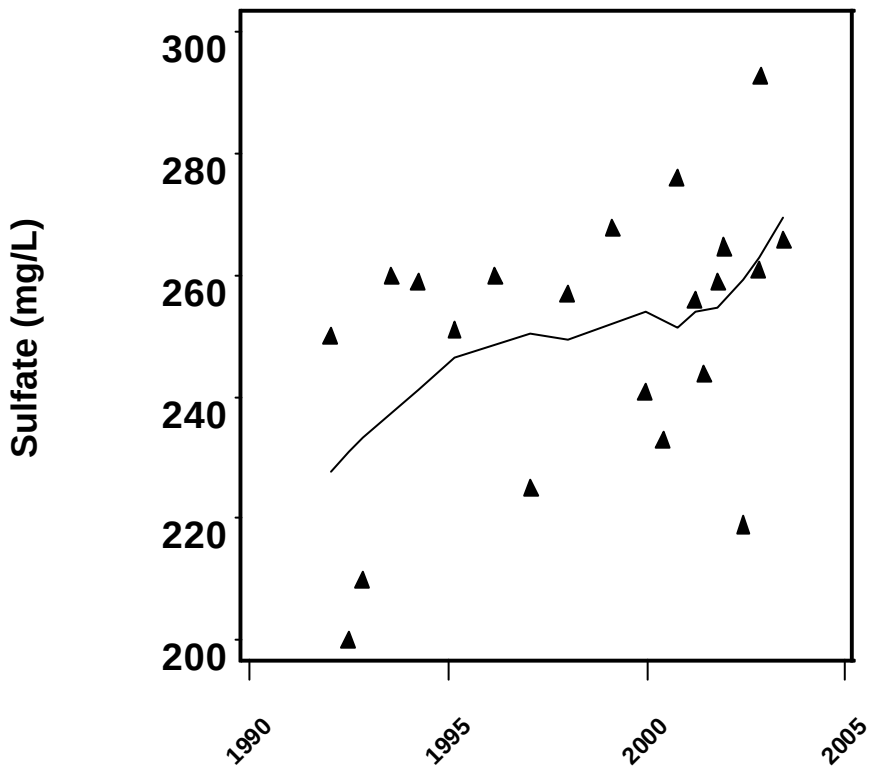
Appendix A-32. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 10 HAWTHORNE.



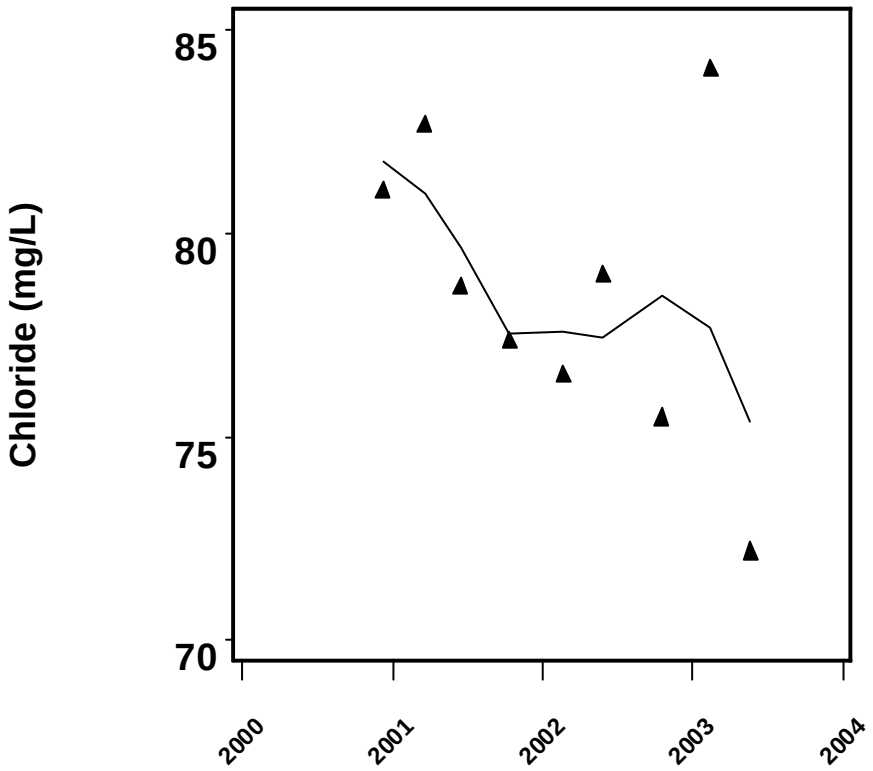


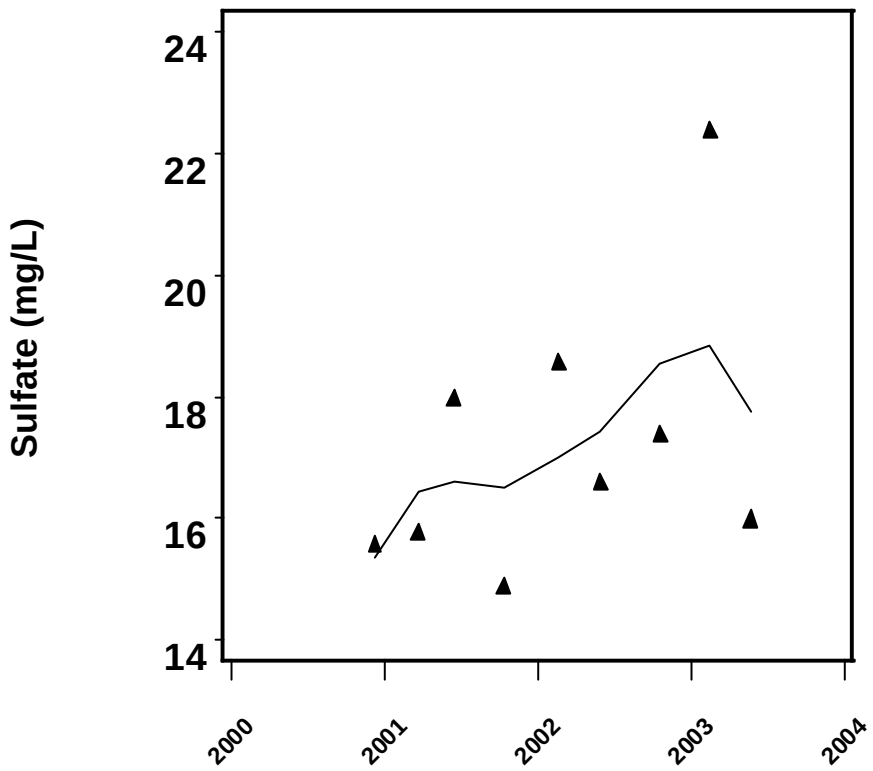
Appendix A-33. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 10 LIMESTONE.



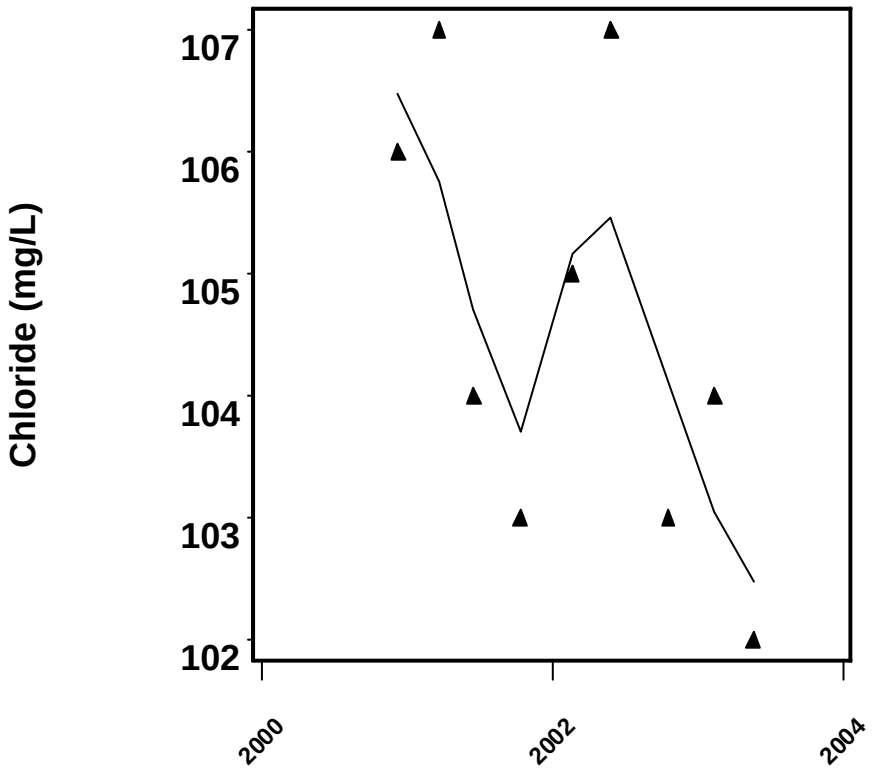


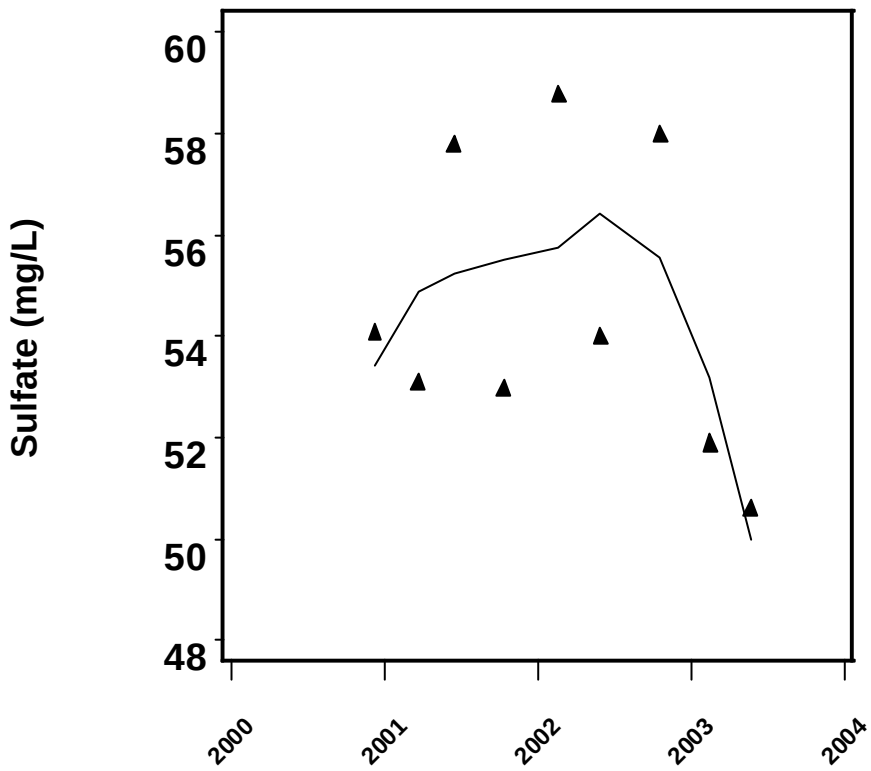
Appendix A-34. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 11 DEEP.



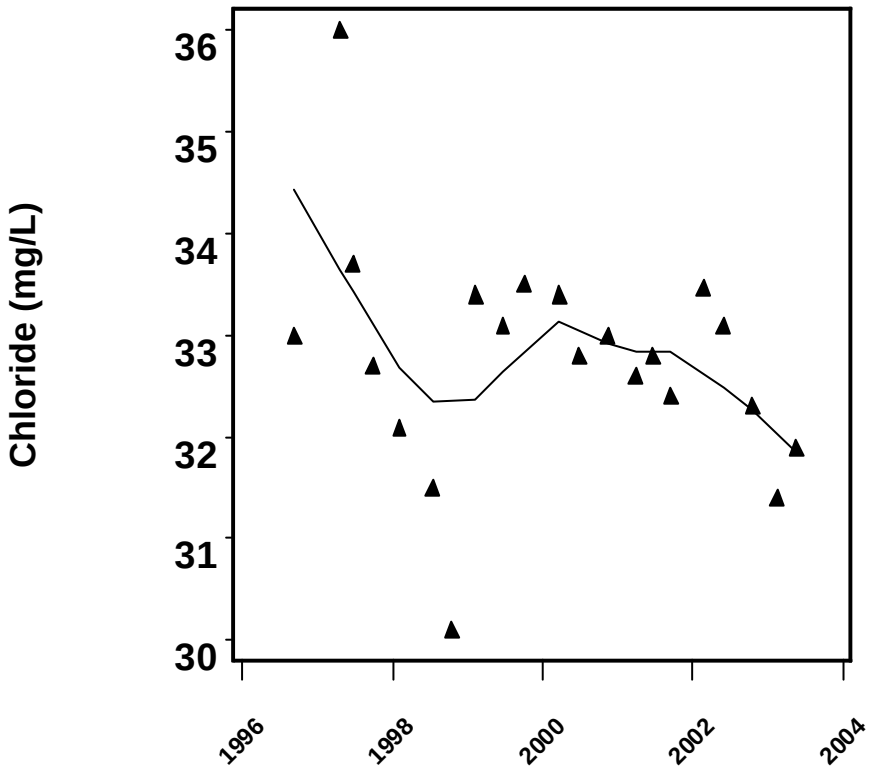


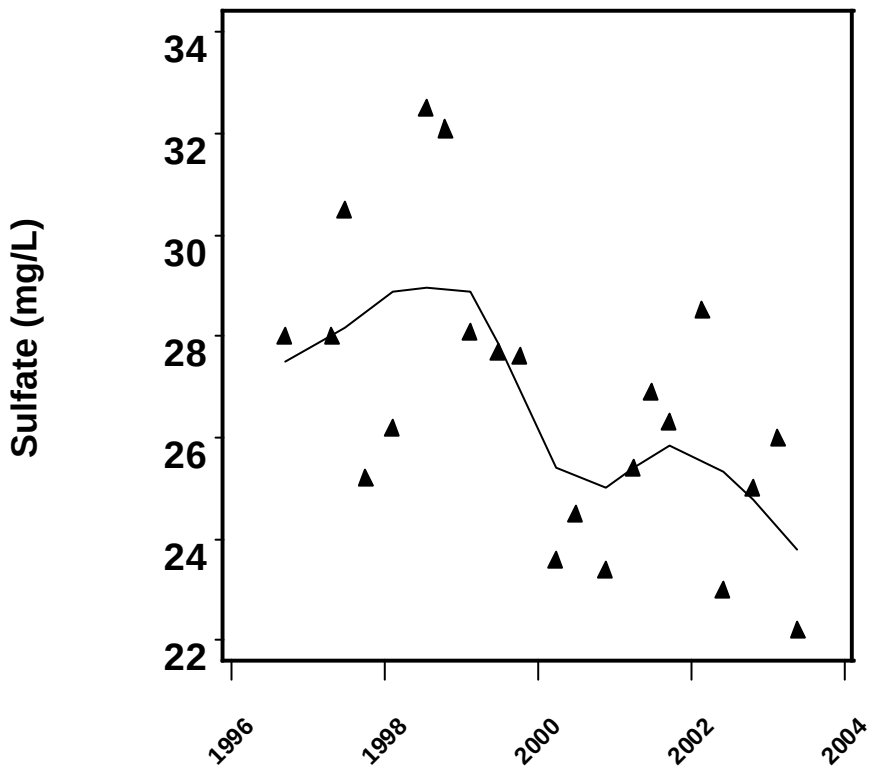
Appendix A-35. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12 LO INTERMEDIATE.



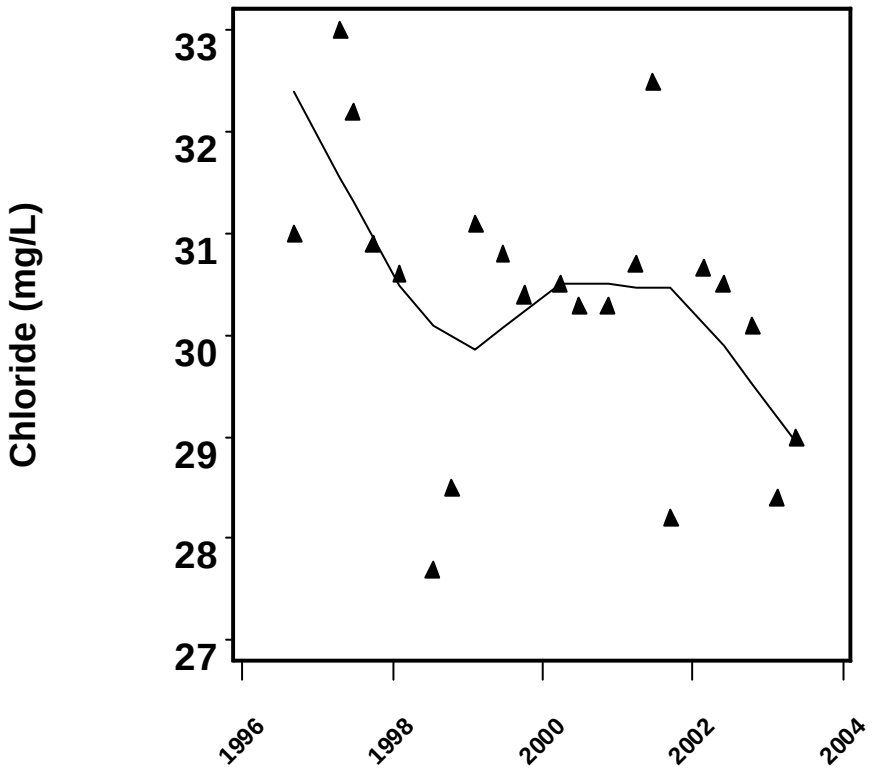


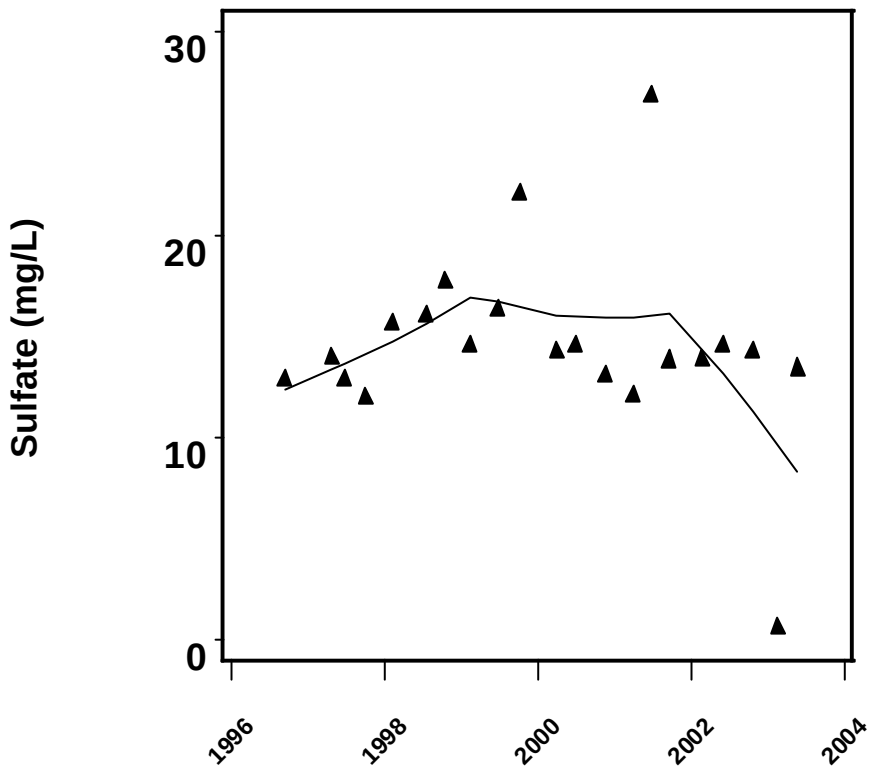
Appendix A-36. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12 UP INTERMEDIATE.



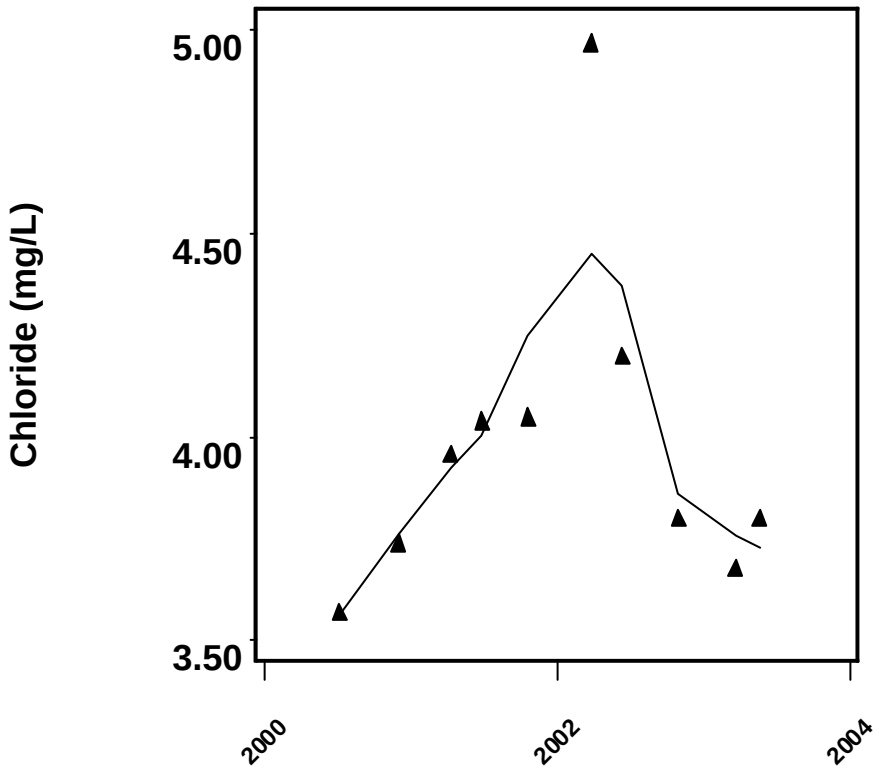


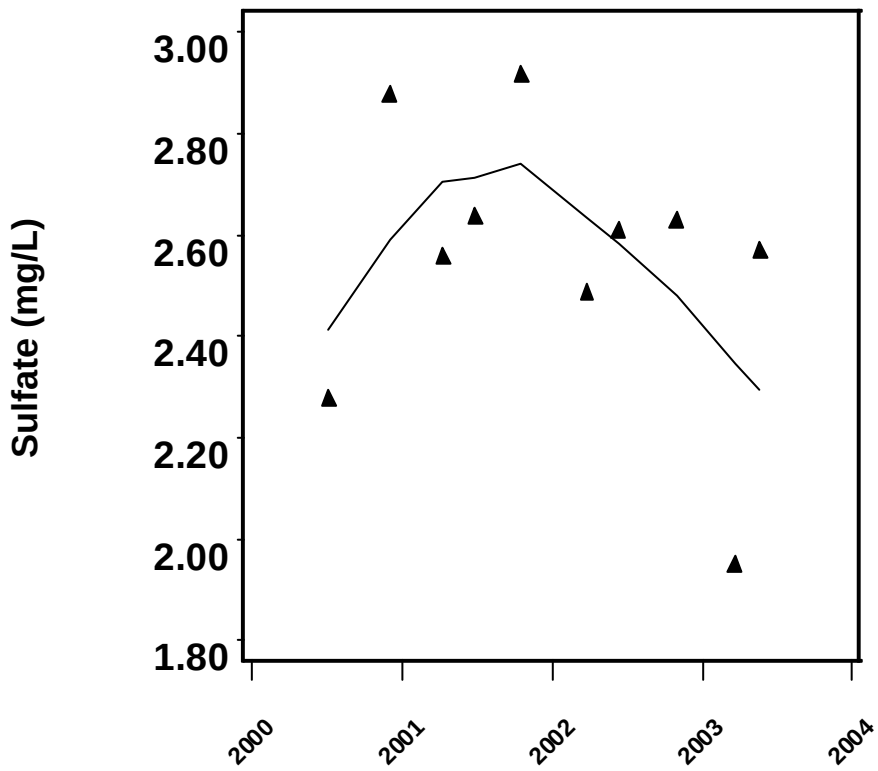
Appendix A-37. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 13 LOW INT.



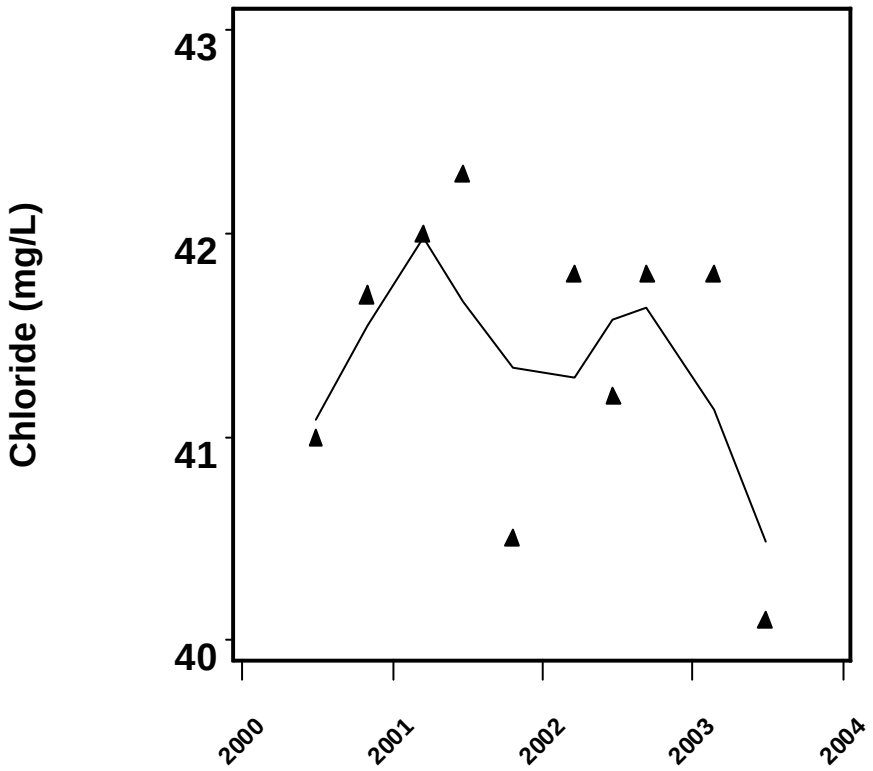


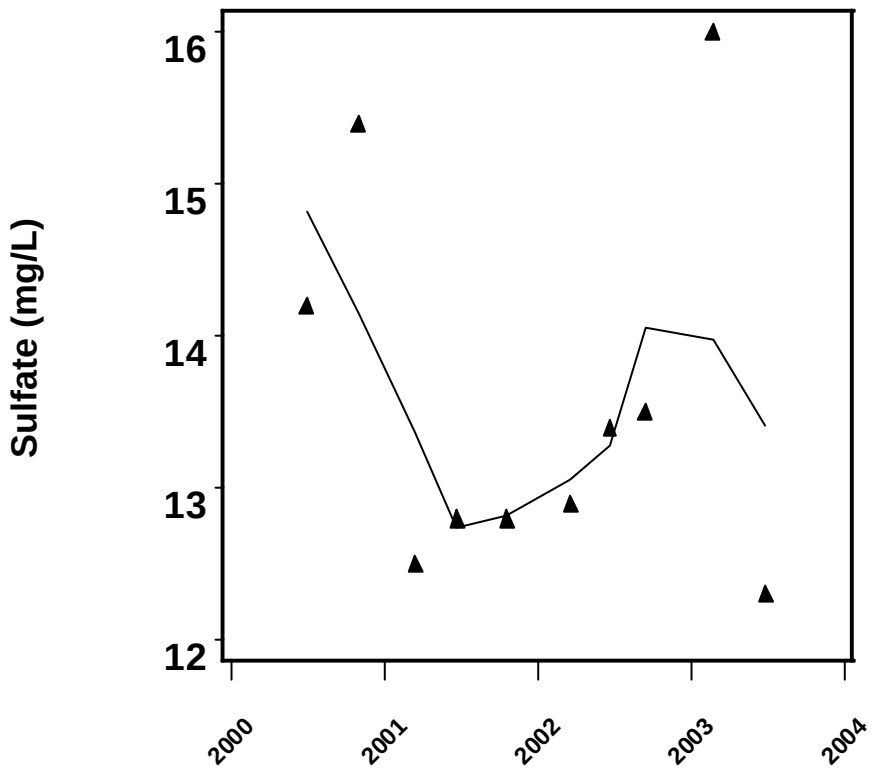
Appendix A-38. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 13 MID INT.



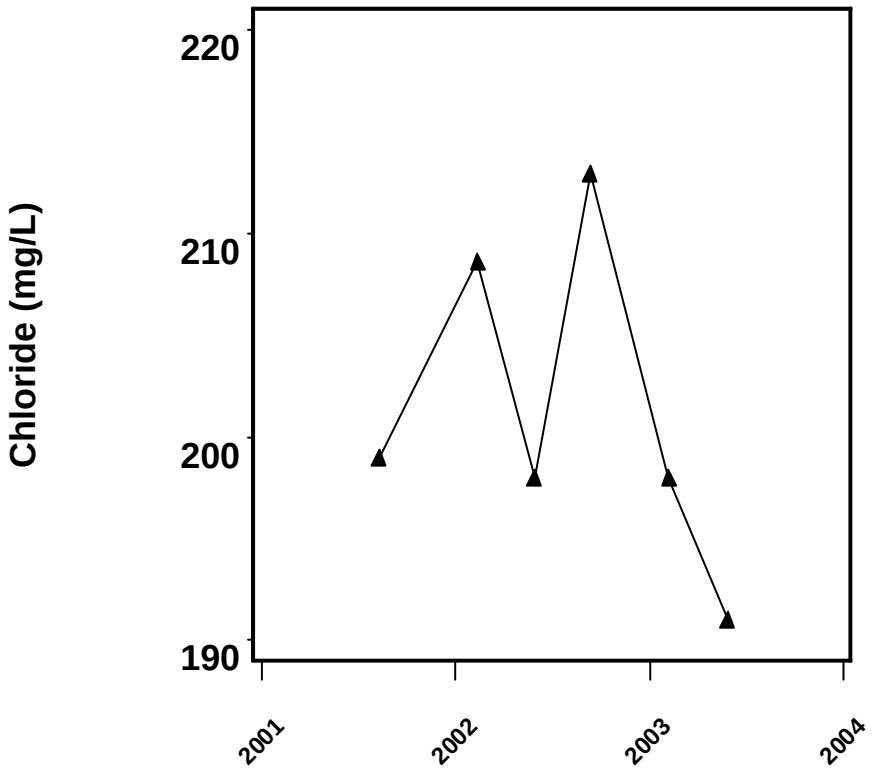


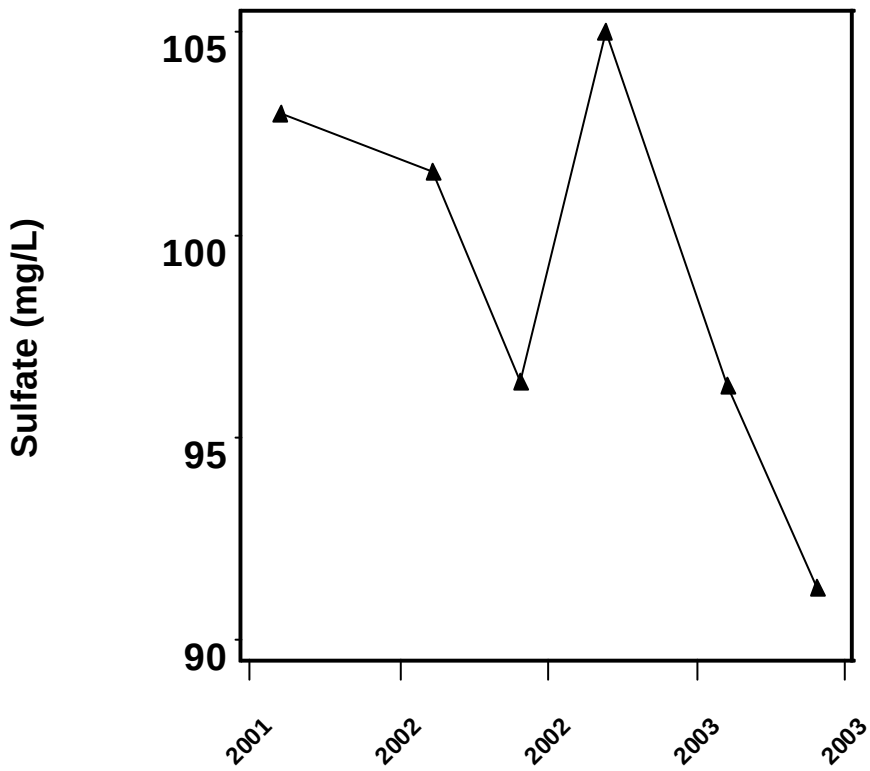
Appendix A-39. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 14 INTERMEDIATE.



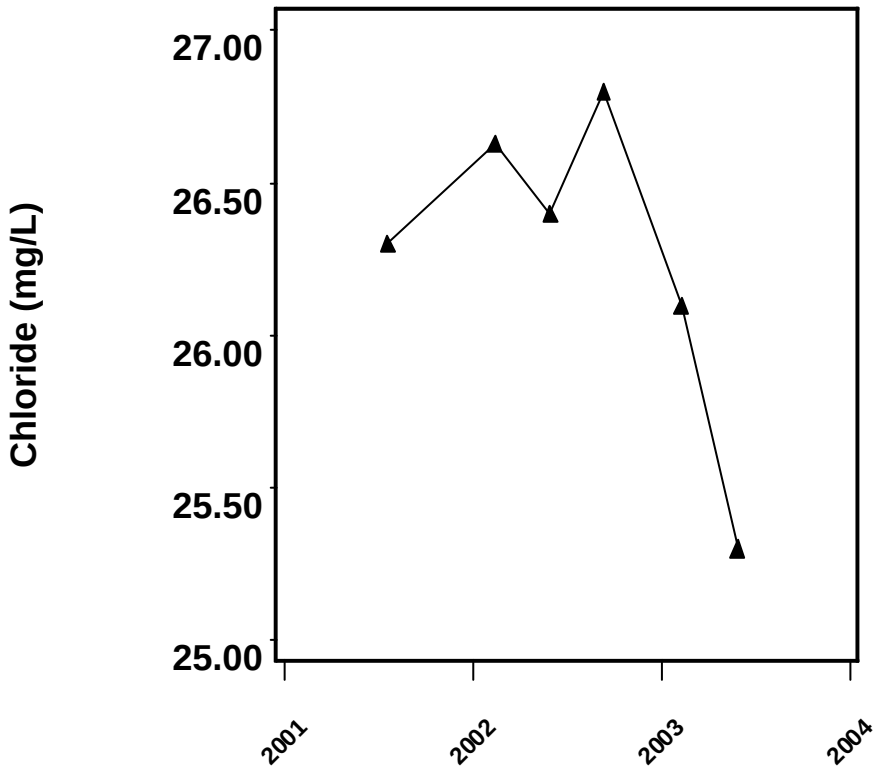


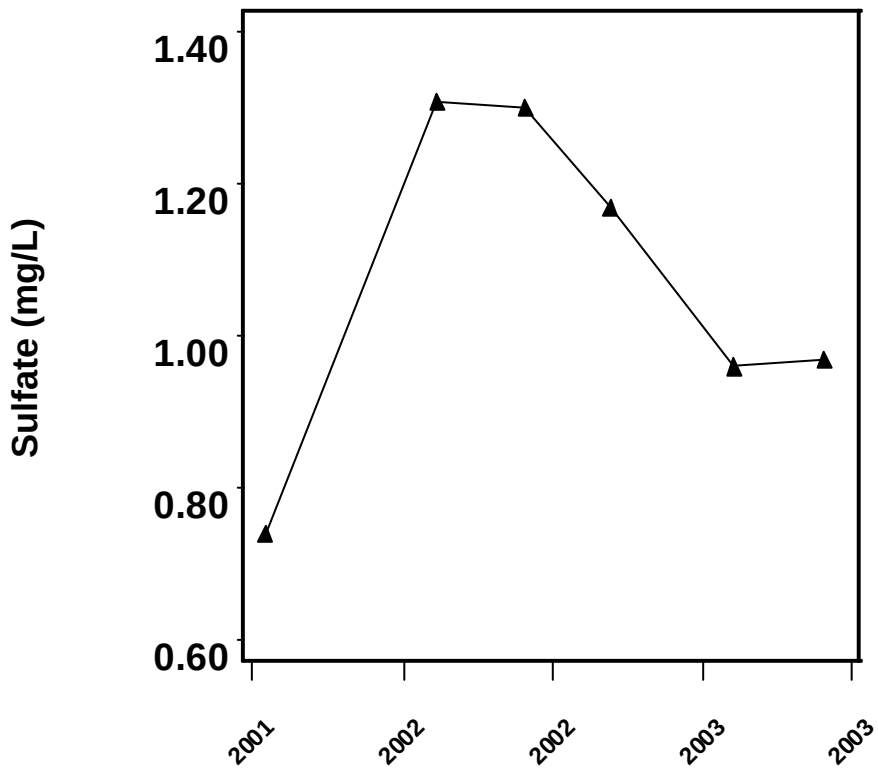
Appendix A-40 Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 16 HAWTHORNE.



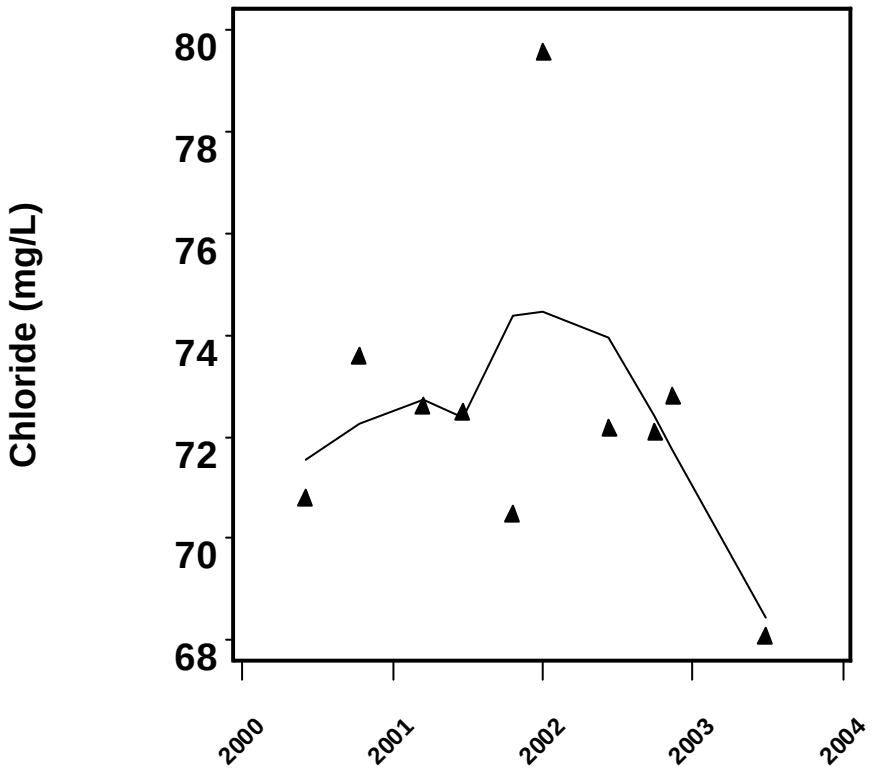


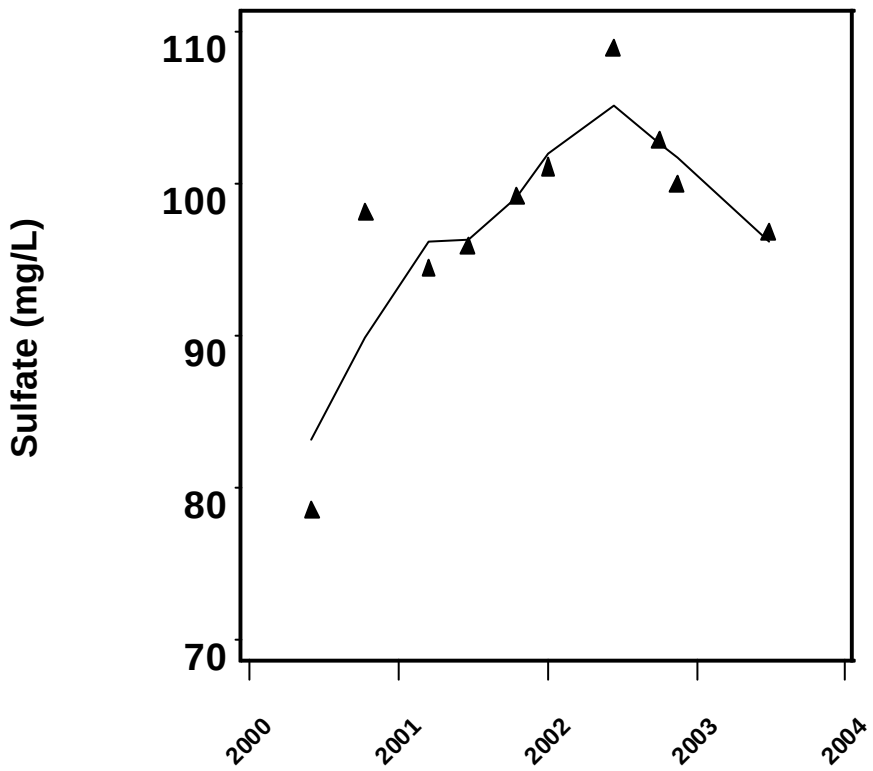
Appendix A-41. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 16.5 LOWER INTERMEDIATE.



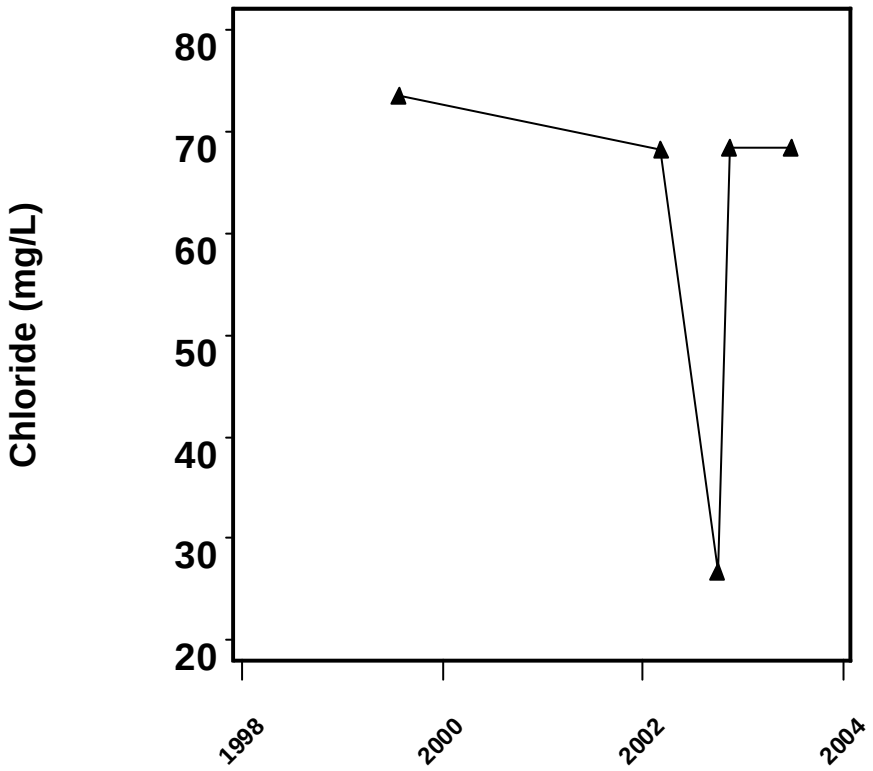


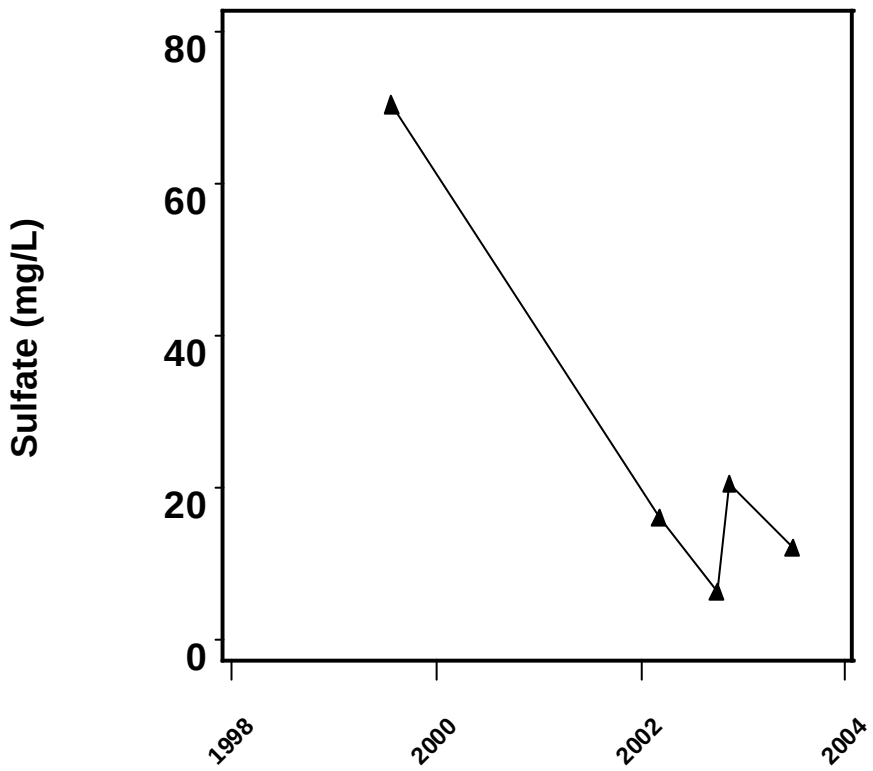
Appendix A-42. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 16.5 UPPER INTERMEDIATE.



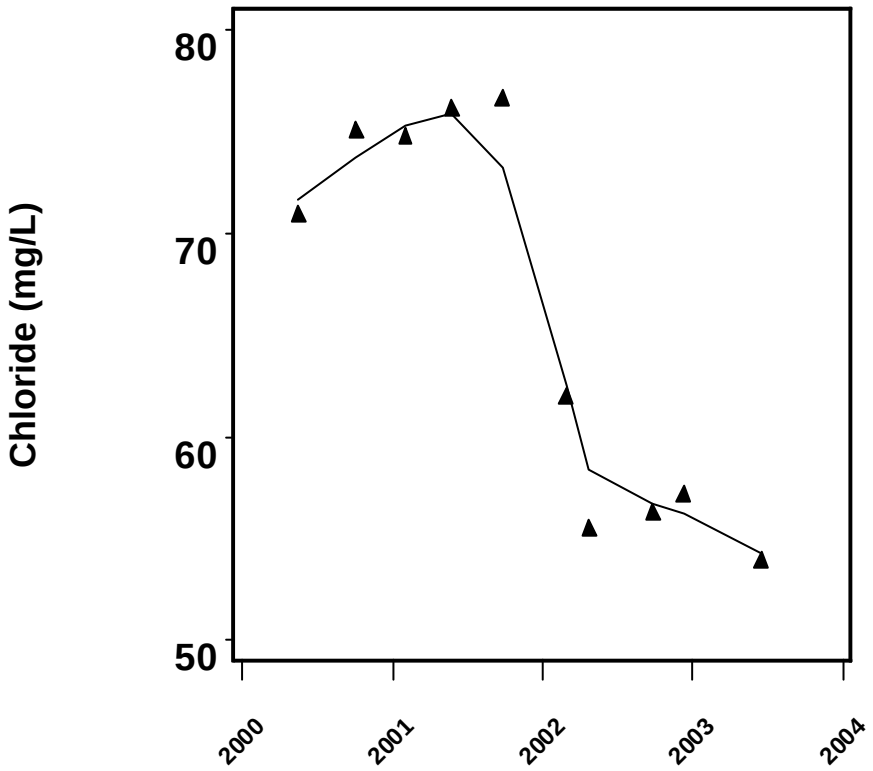


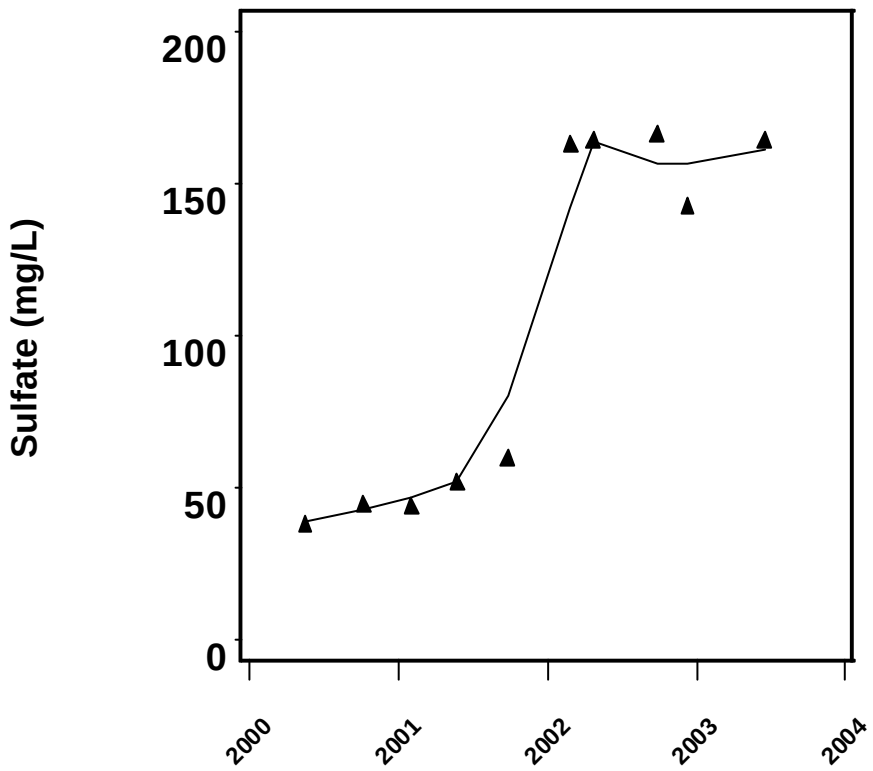
Appendix A-43. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 17 INT.



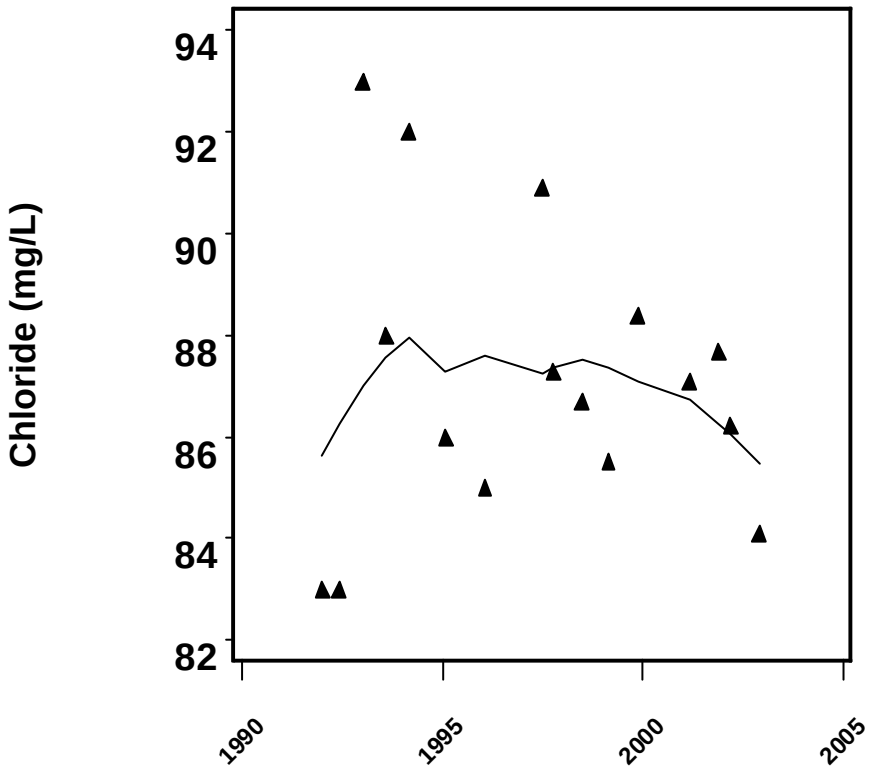


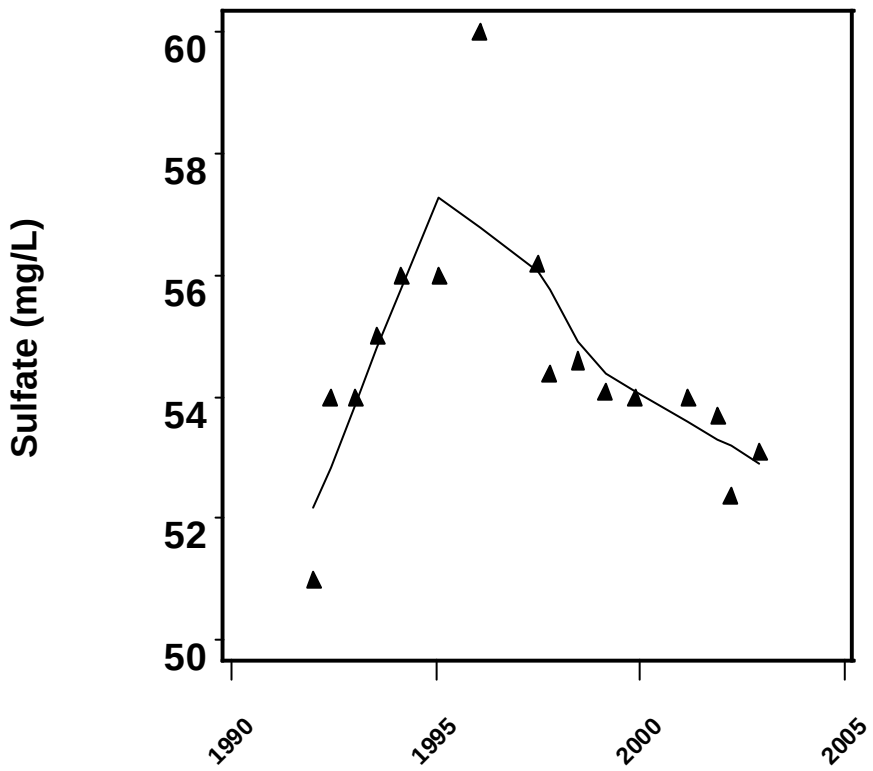
Appendix A-44. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 17 PZ2



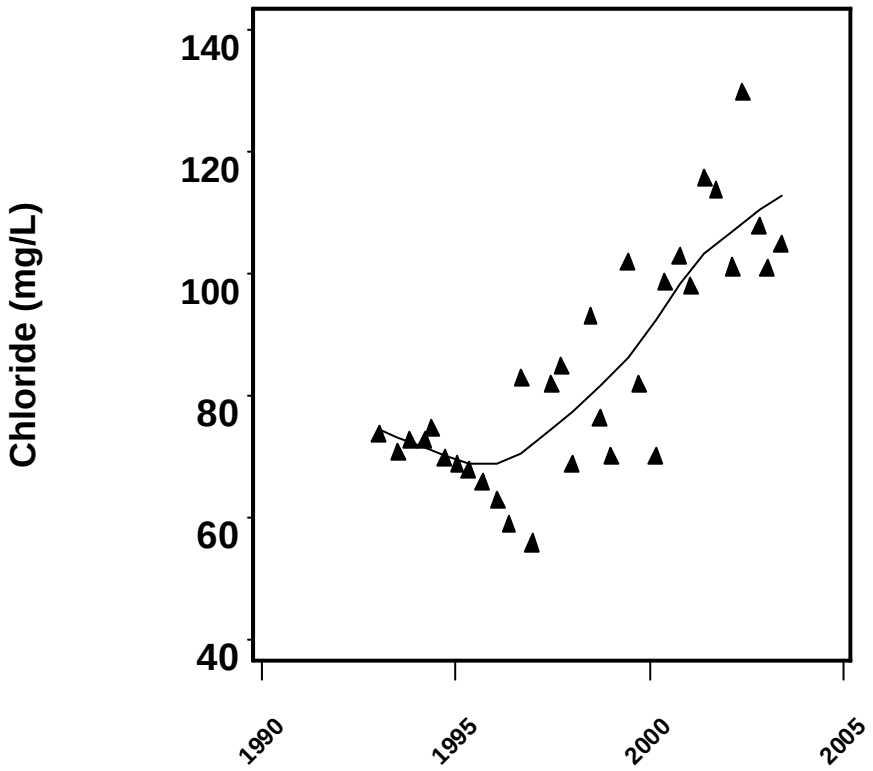


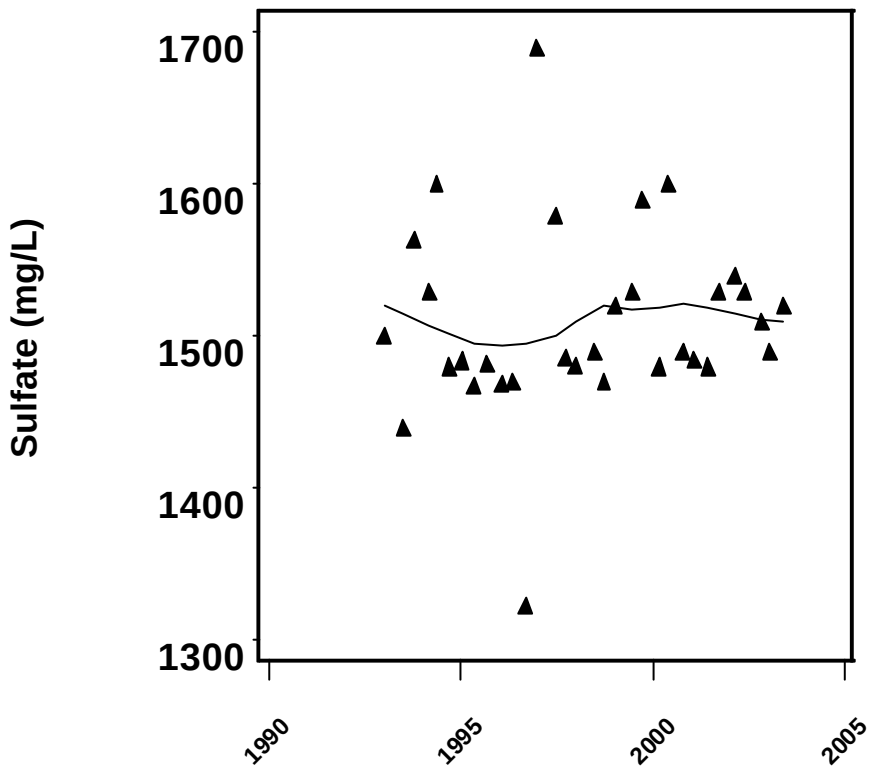
Appendix A-45. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 19 EUAM.



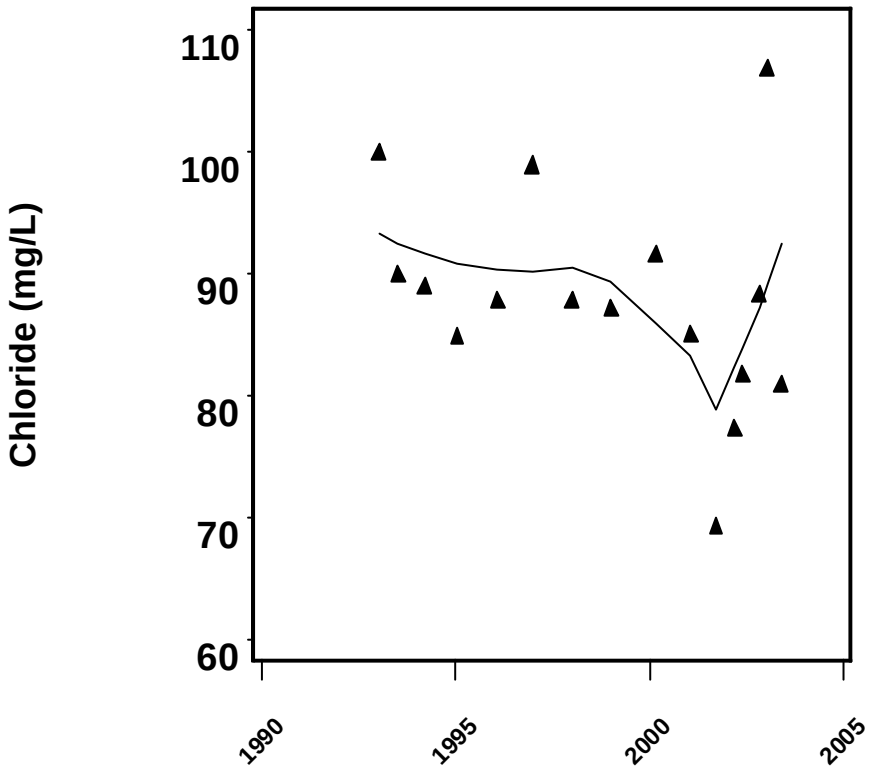


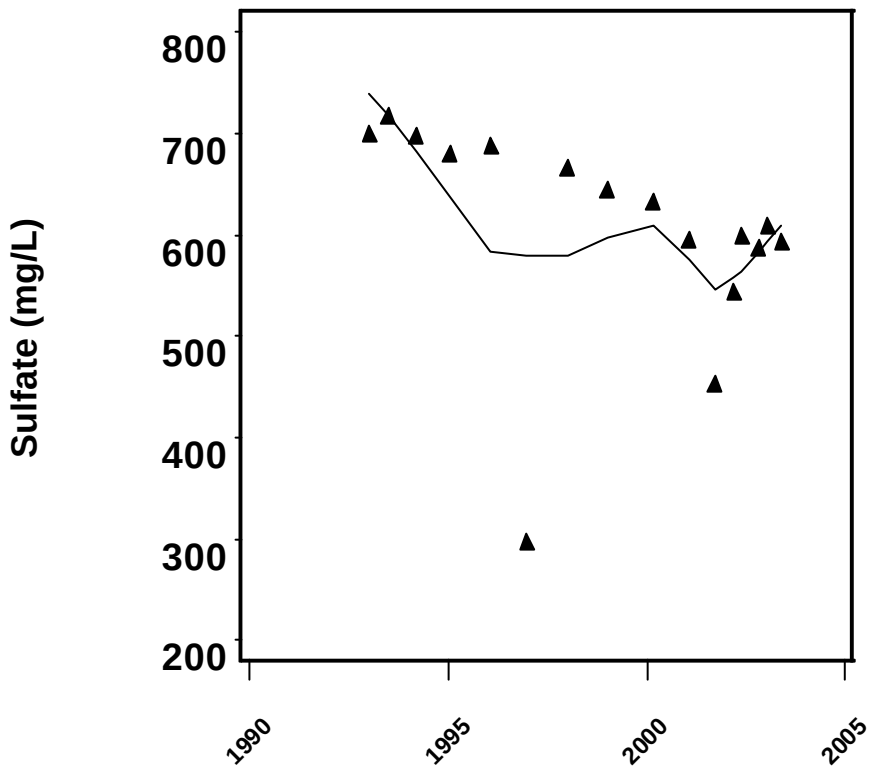
Appendix A-46. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 19 WUAM.



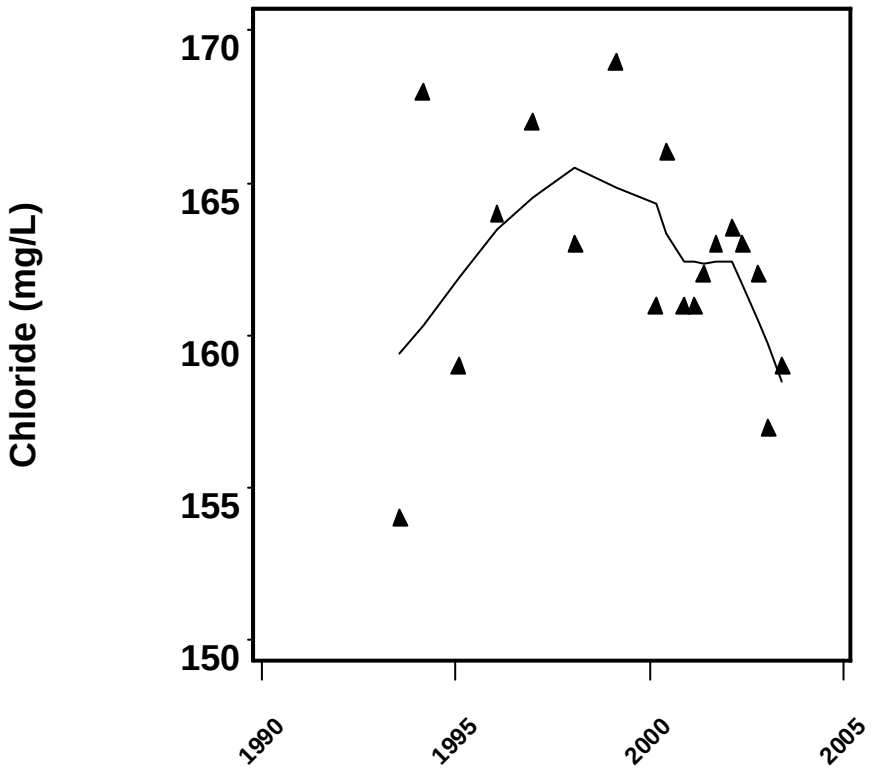


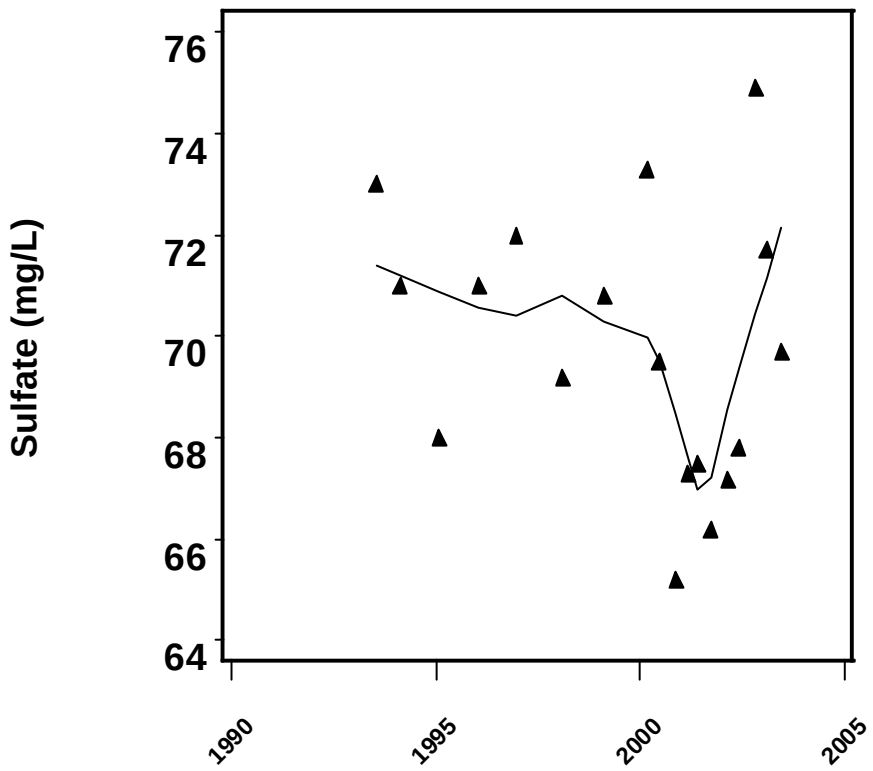
Appendix A-47. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 20 LOWER INT.



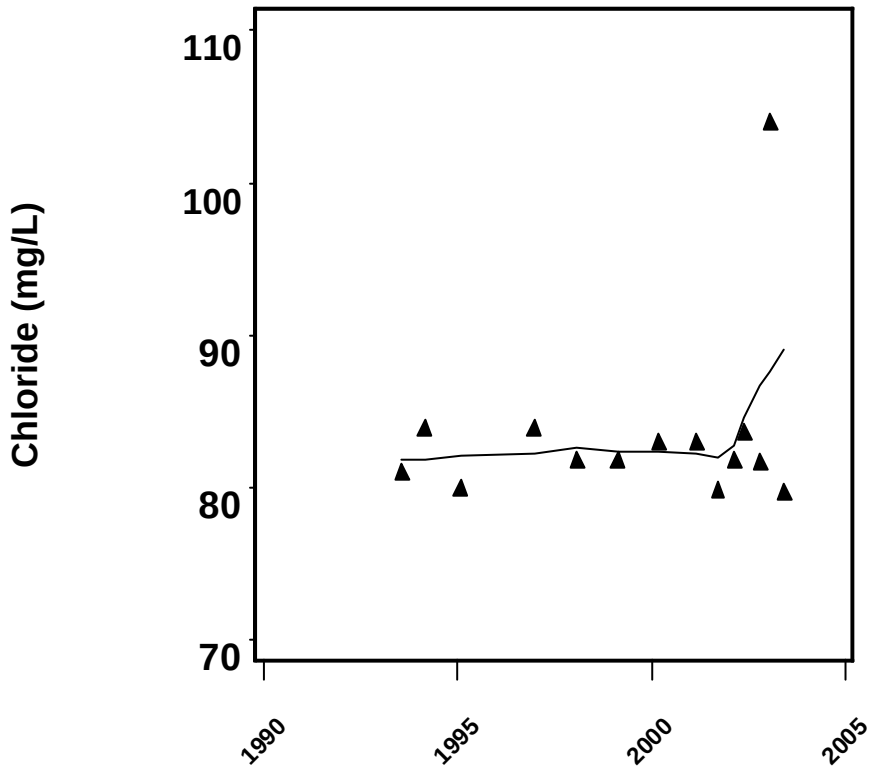


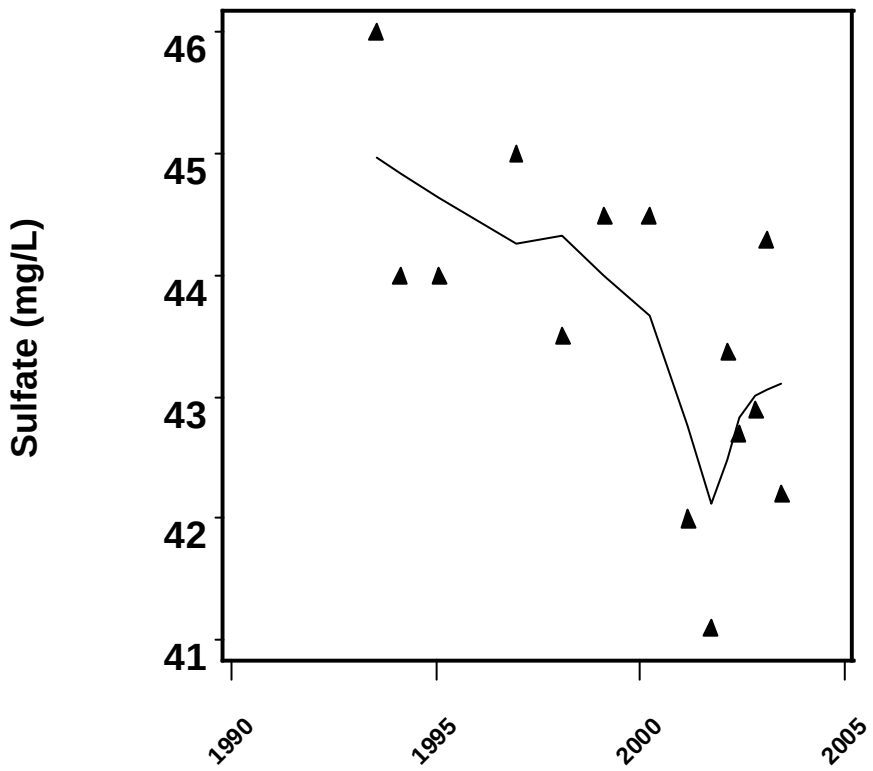
Appendix A-48. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 20 UPPER INT.



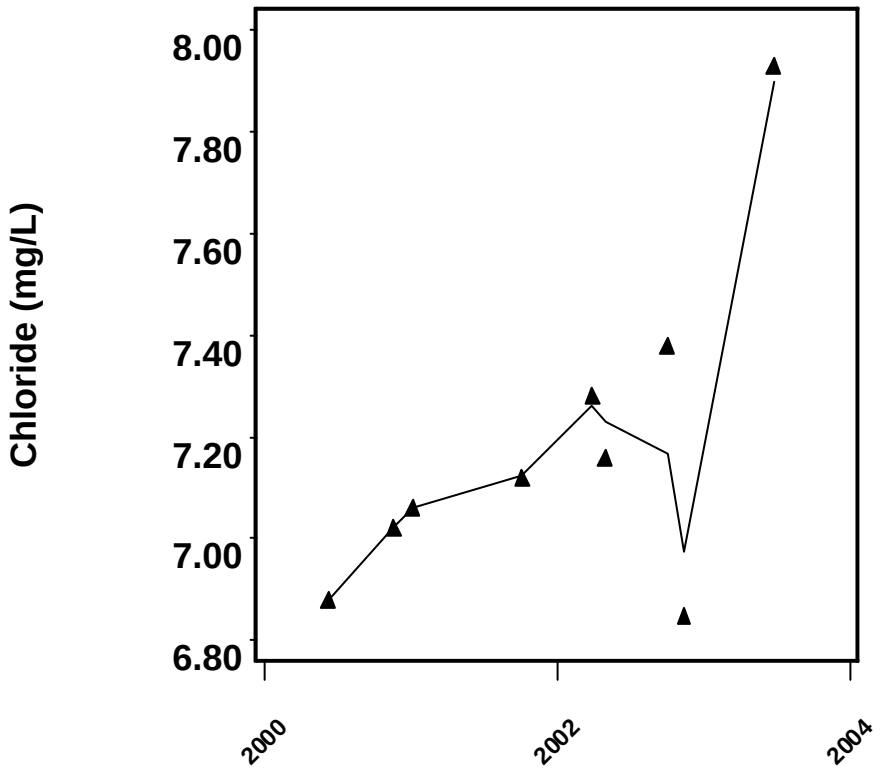


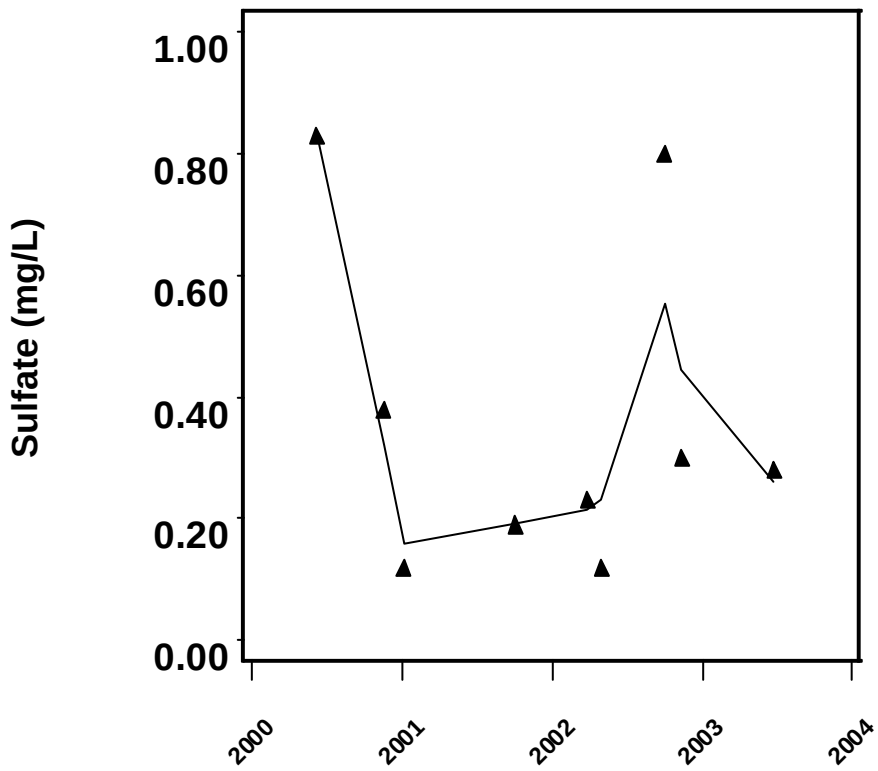
Appendix A-49. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 22 LOWER INT.



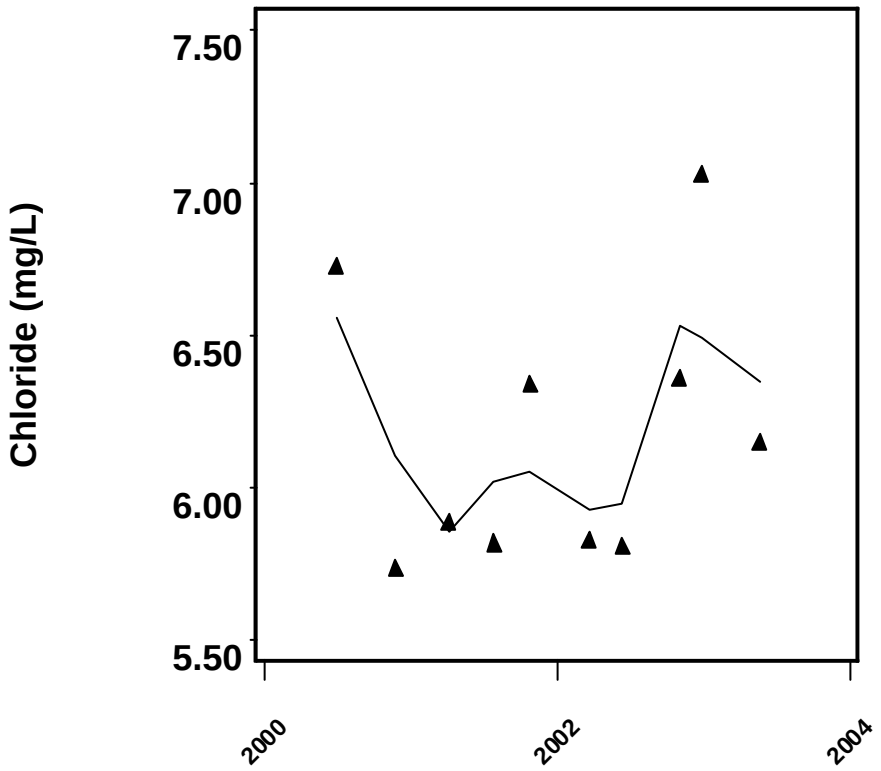


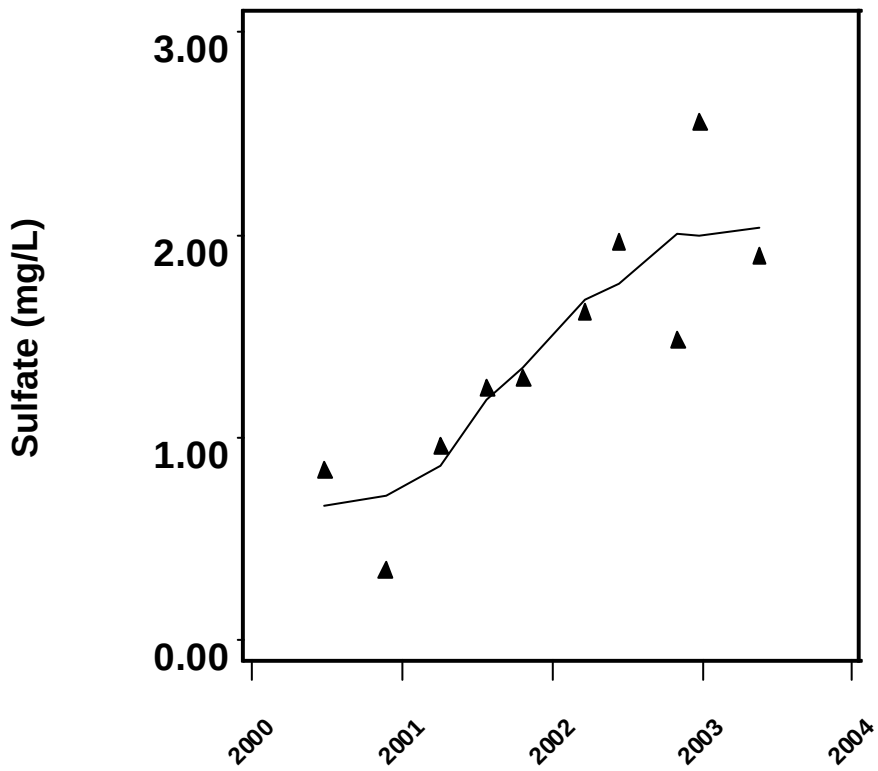
Appendix A-50. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 22 UPPER INT.



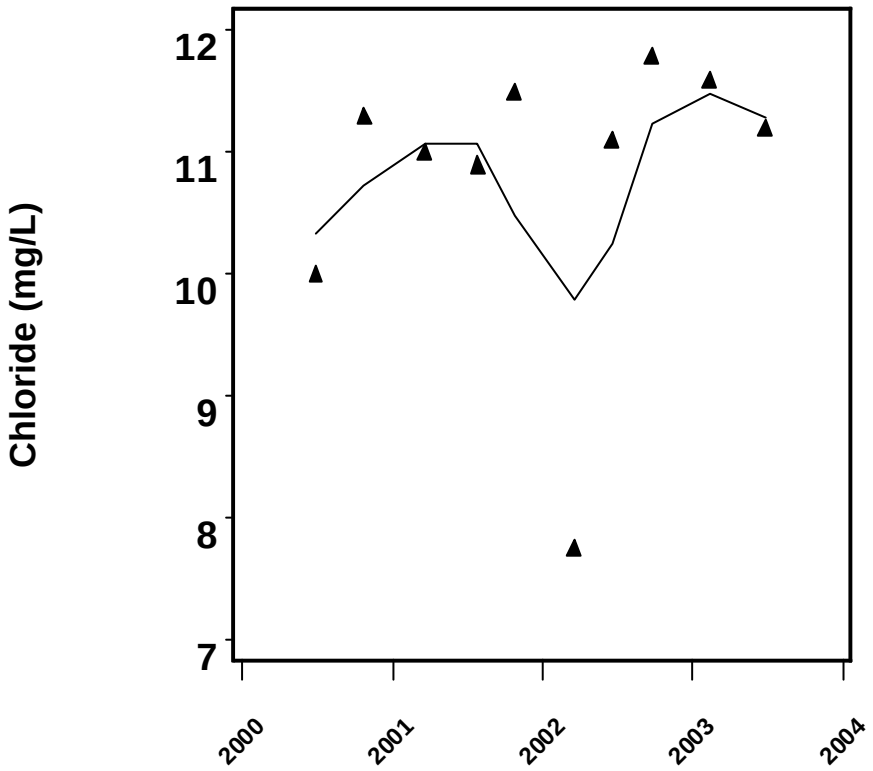


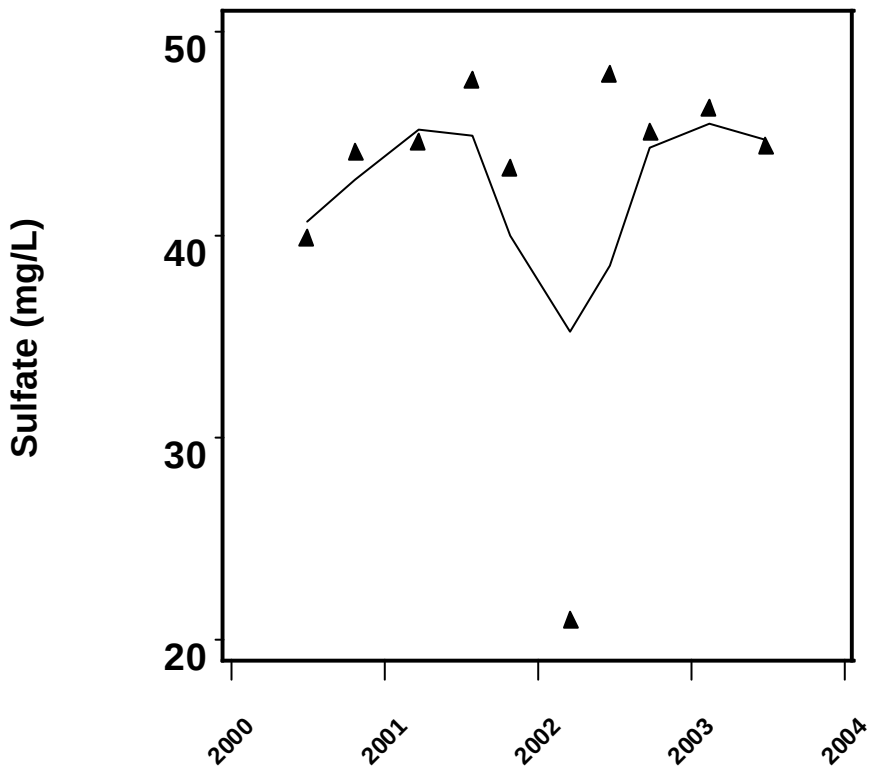
Appendix A-51. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 23 PZ2.



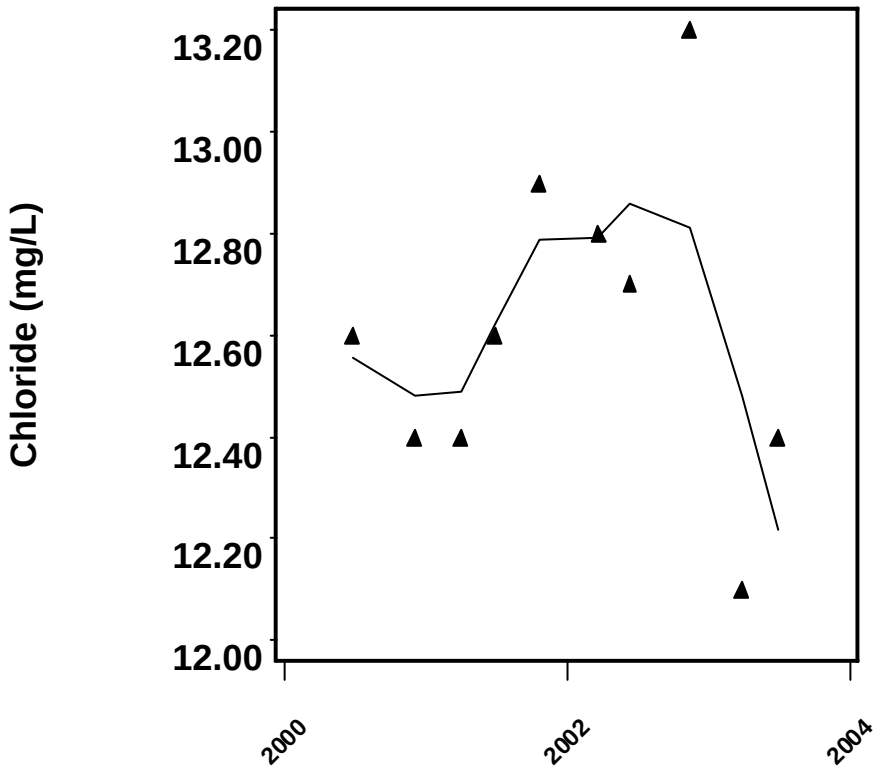


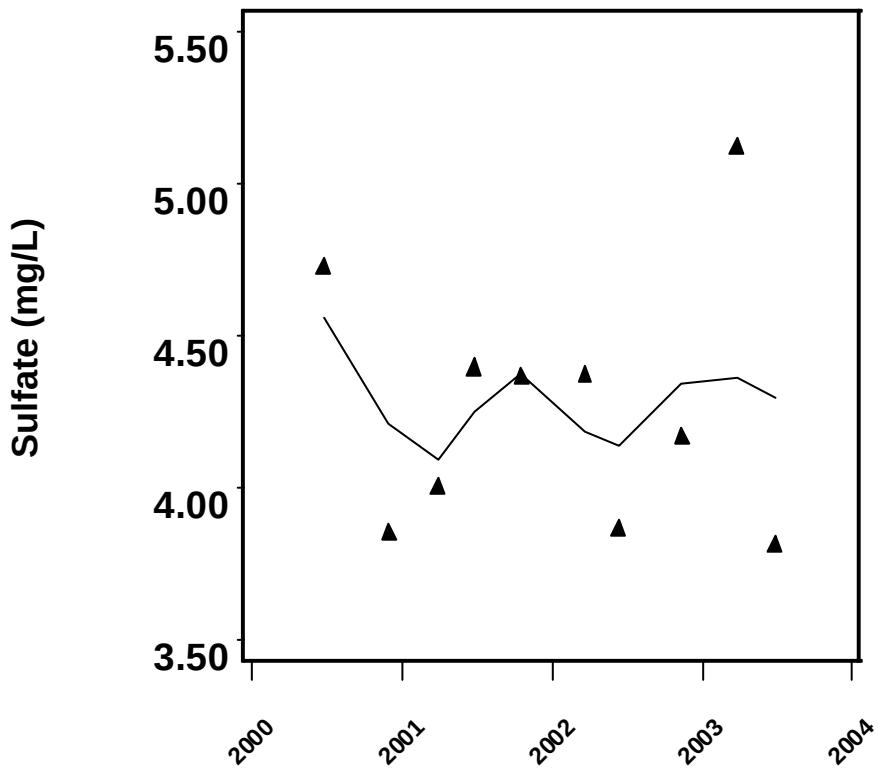
Appendix A-52. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 25 LILY ARCADIA.



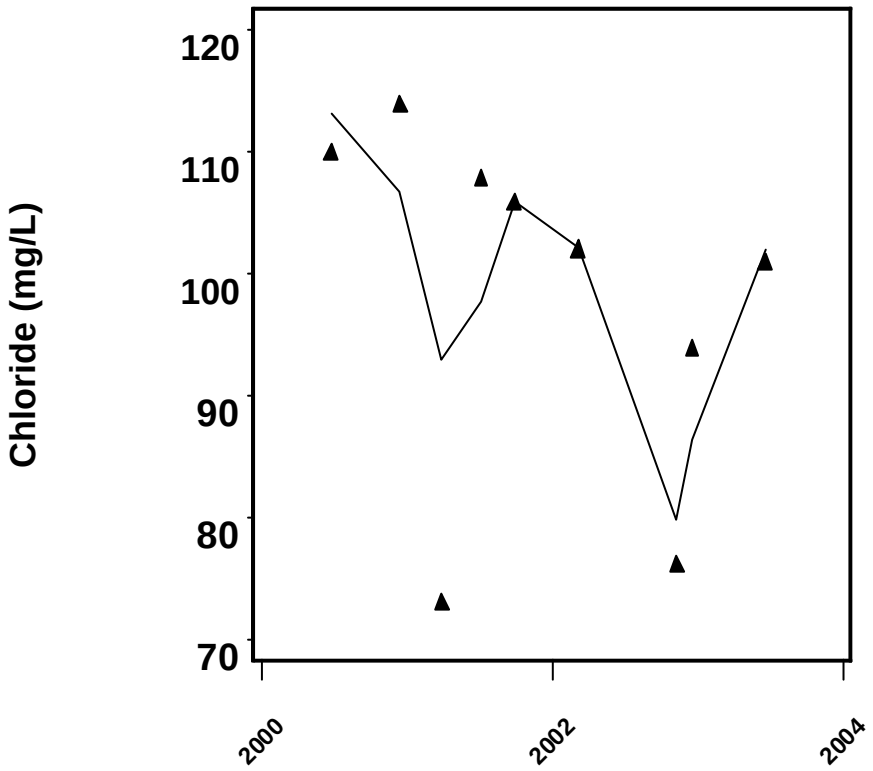


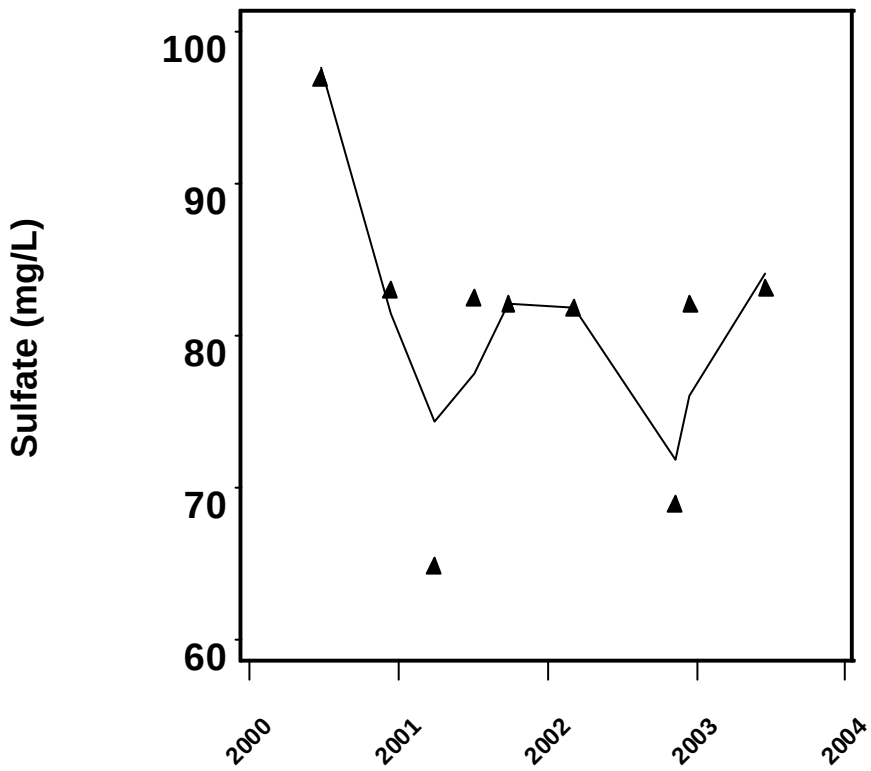
Appendix A-53. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 26 HAWTHORNE.



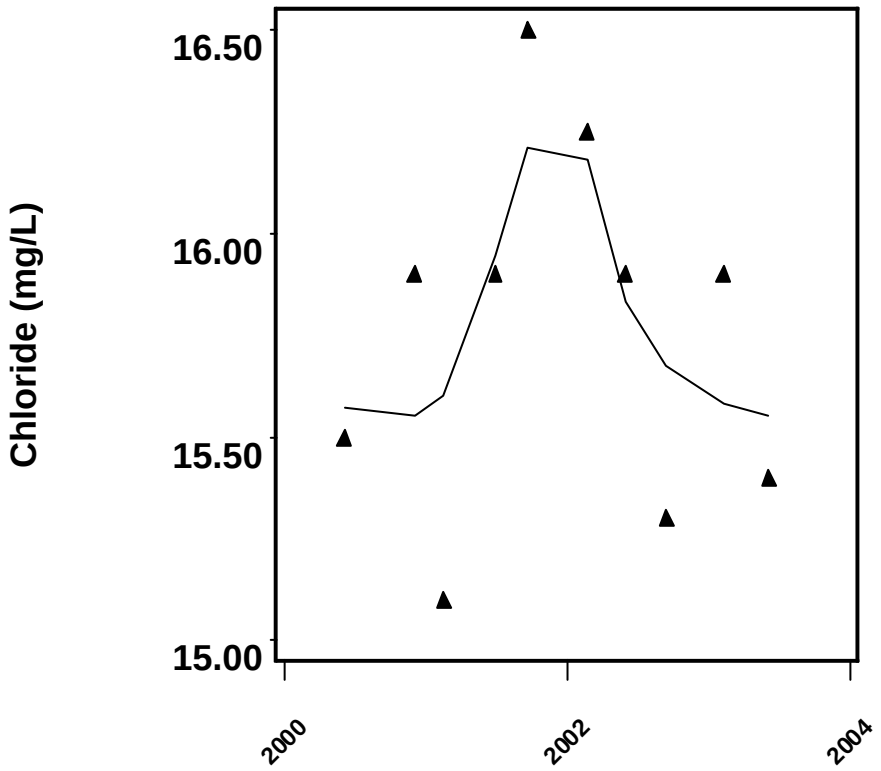


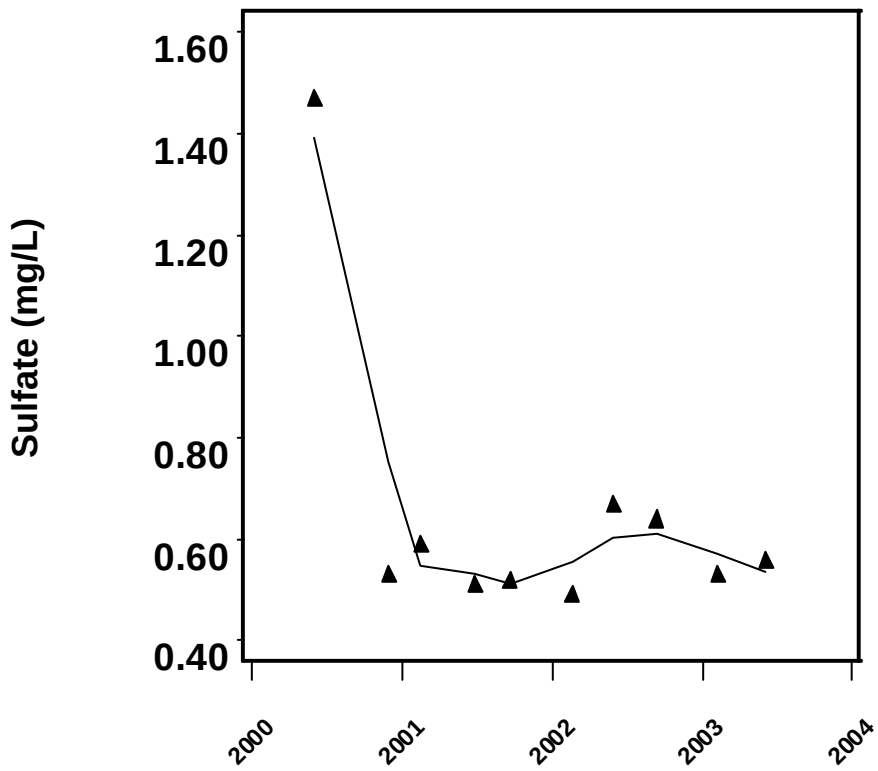
Appendix A-54. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 28 INTERMEDIATE.



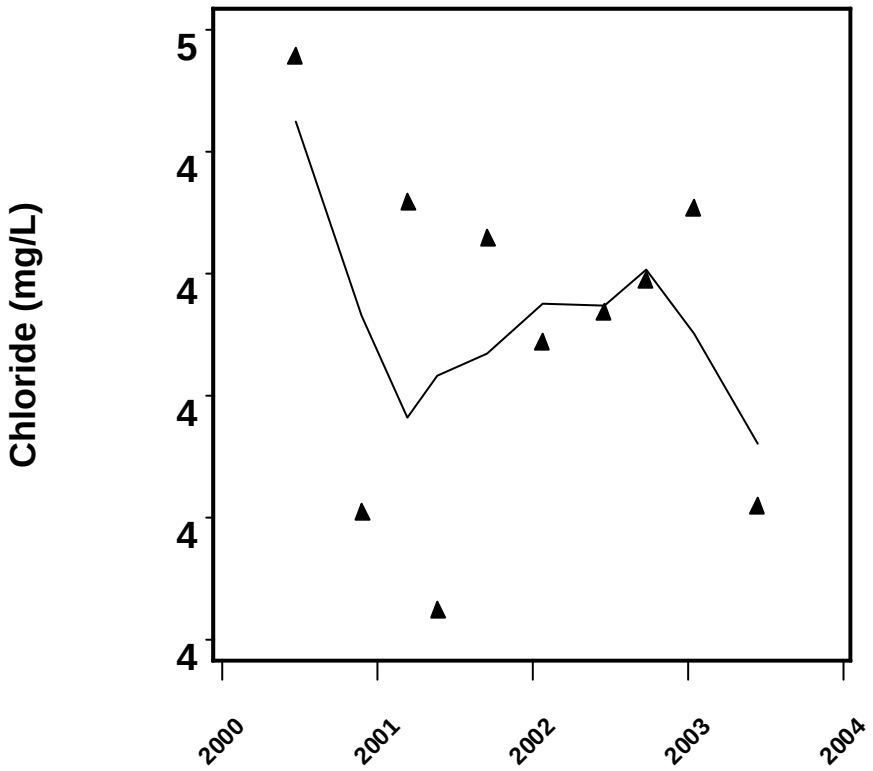


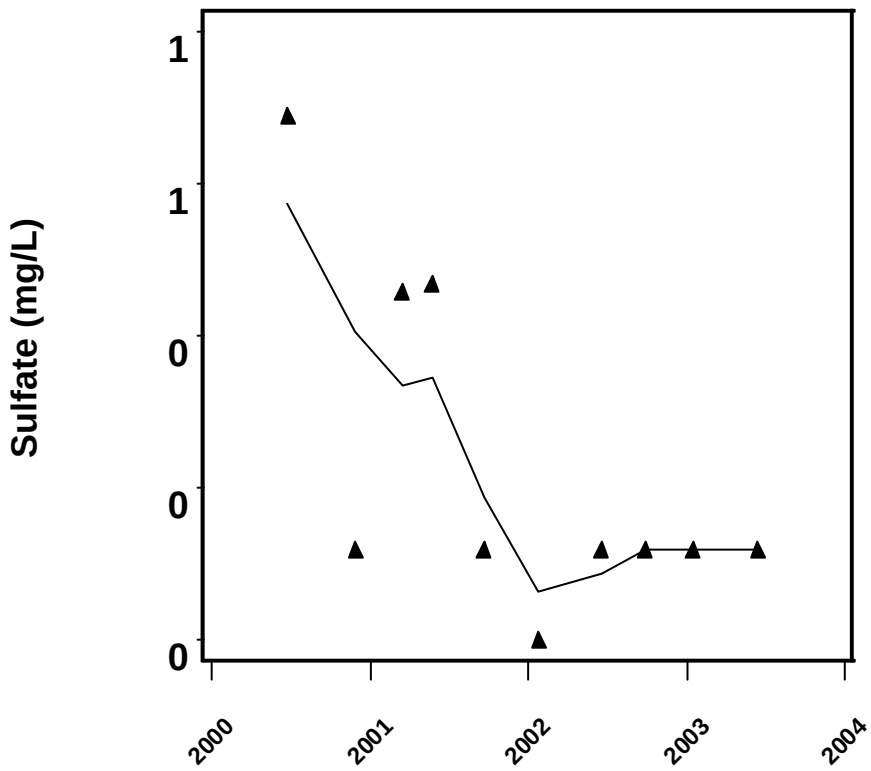
Appendix A-55. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 31 HAWTHORNE.



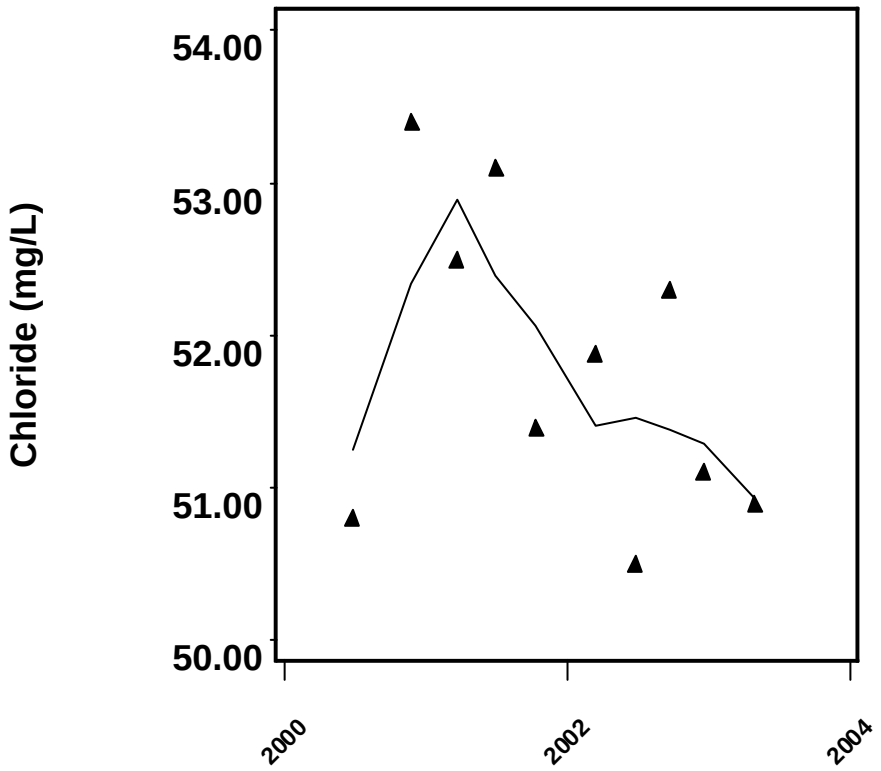


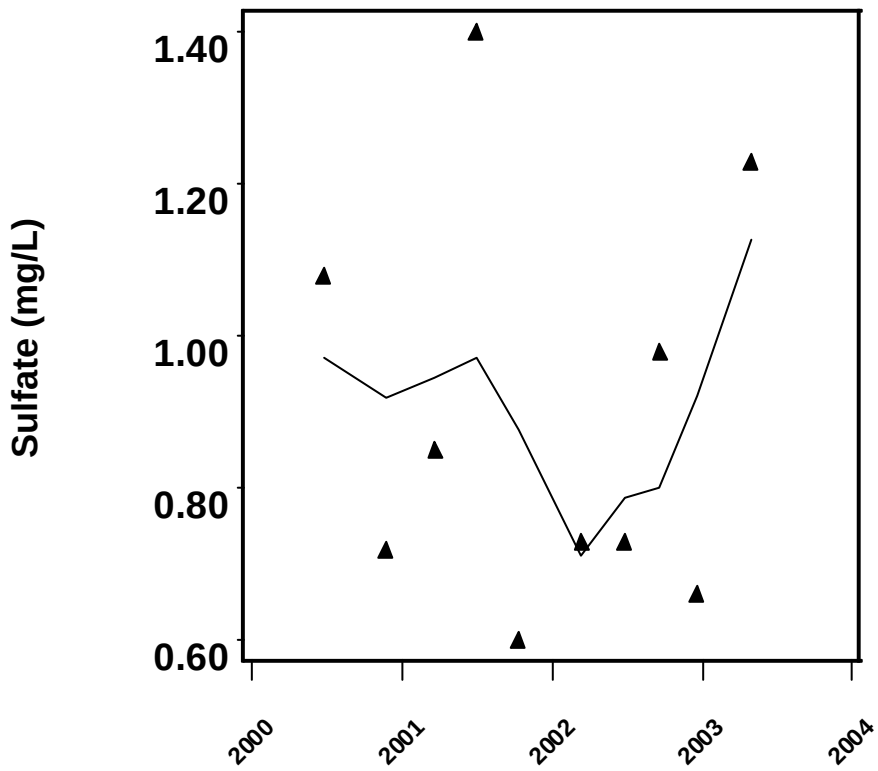
Appendix A-56. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 33 INT.



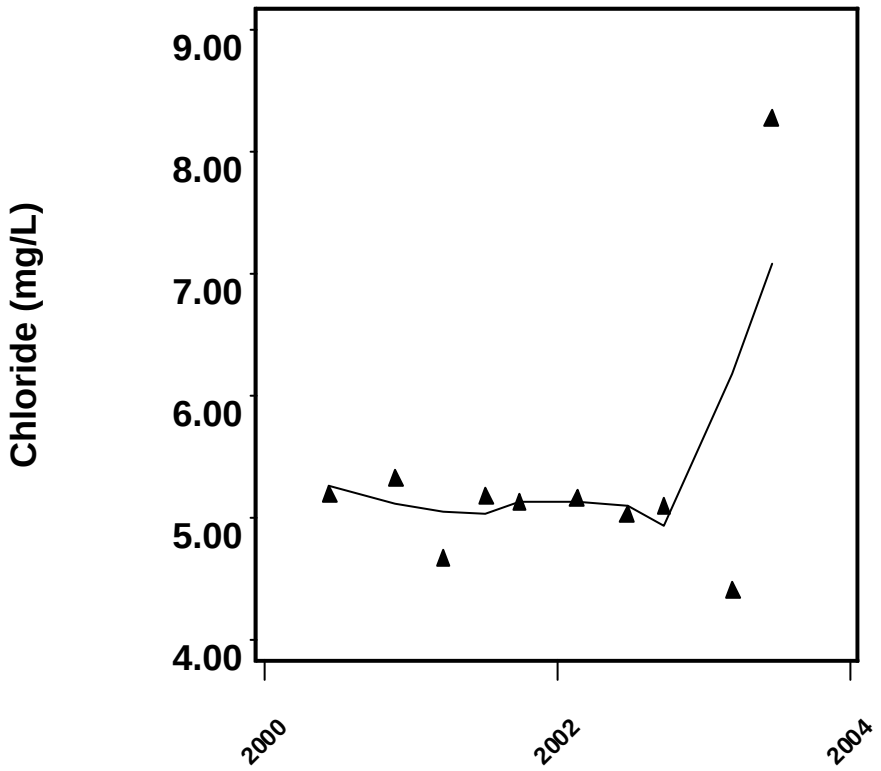


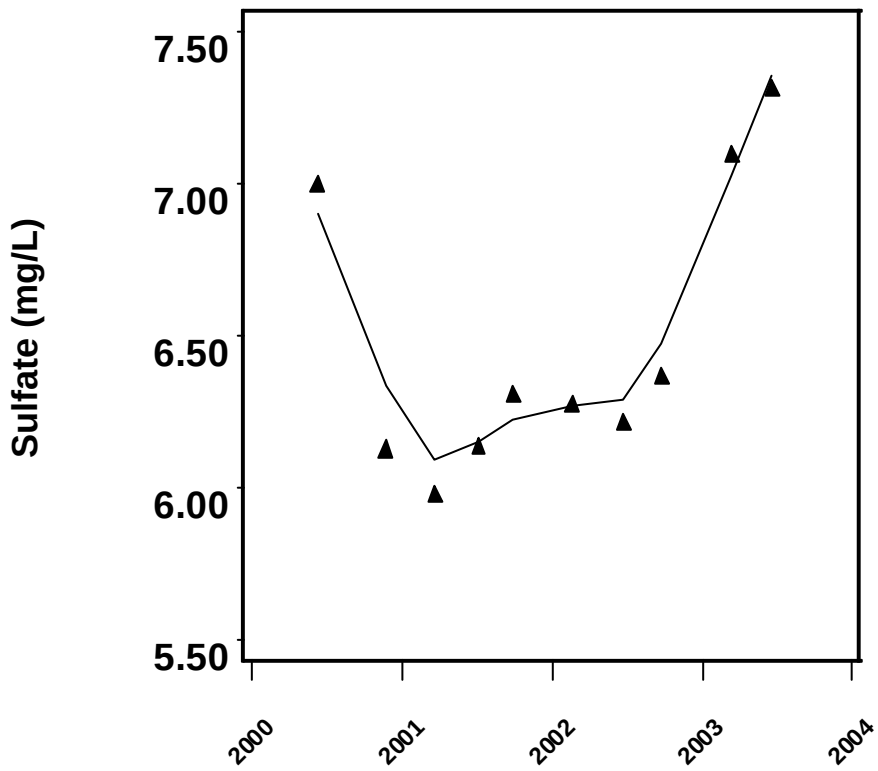
Appendix A-57. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 39 INTERMEDIATE.



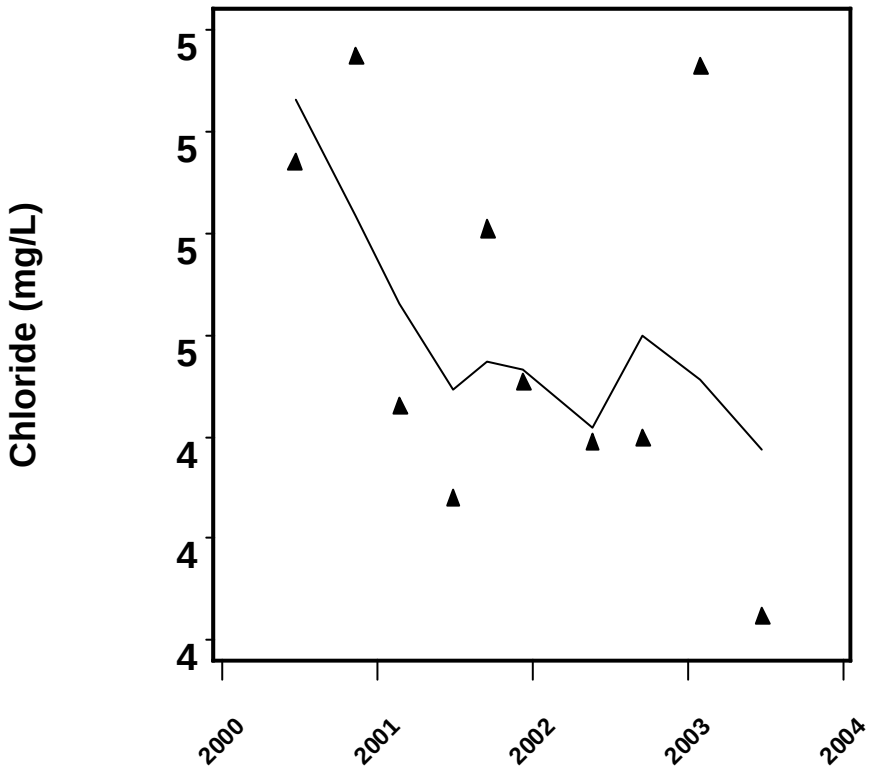


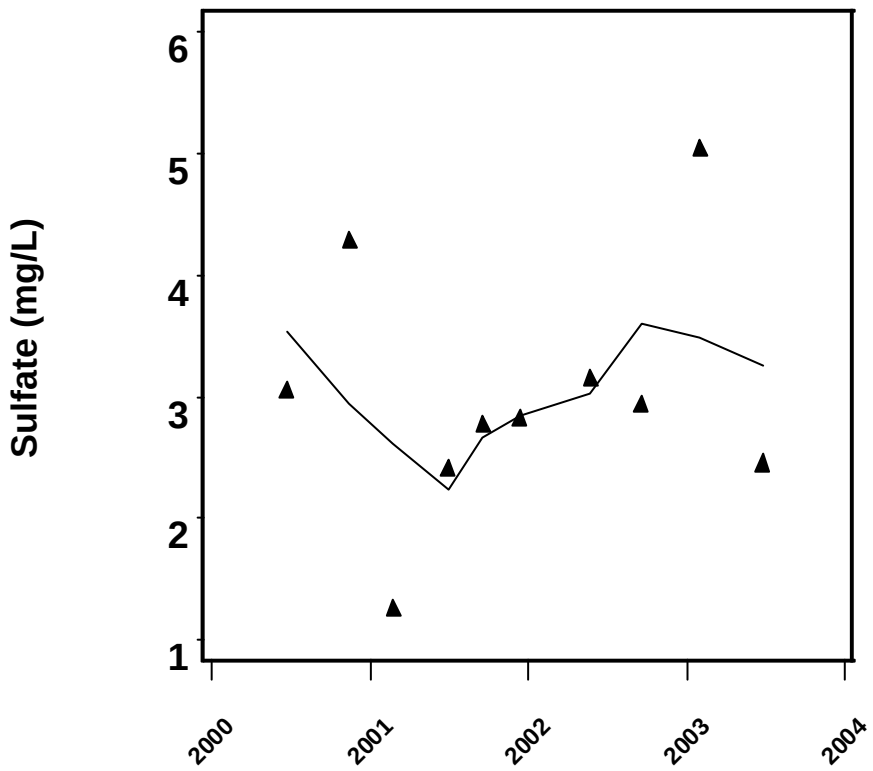
Appendix A-58. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 40 HAWTHORNE.



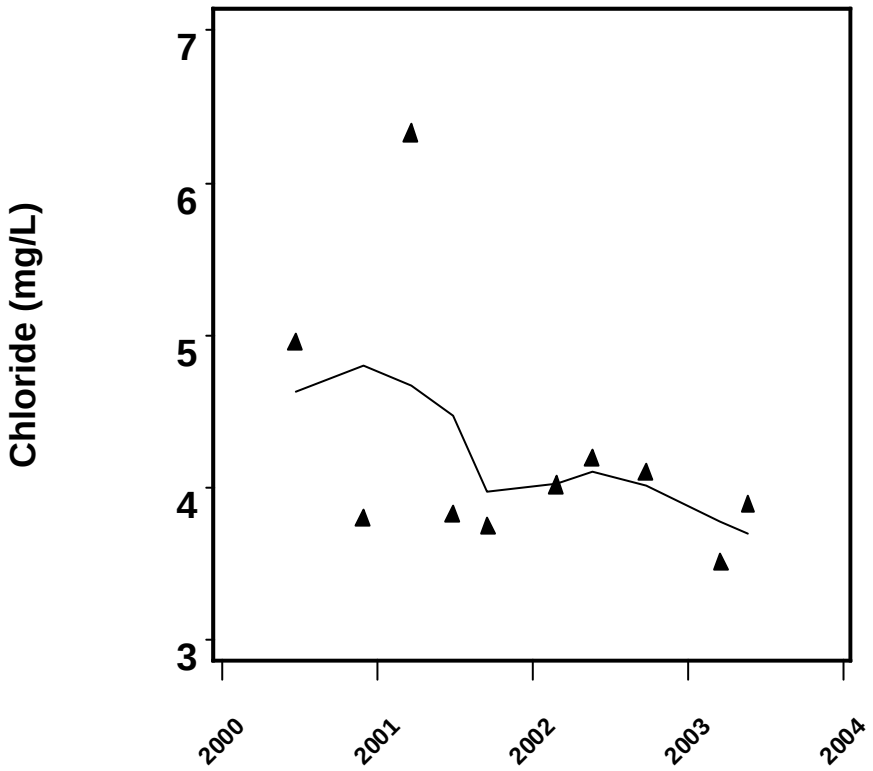


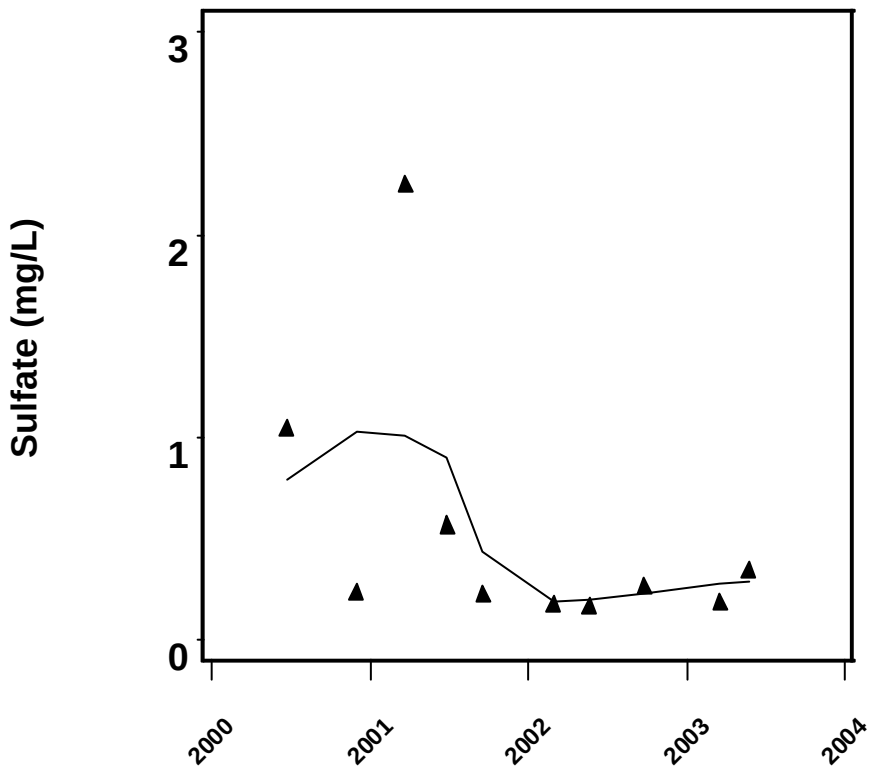
Appendix A-59. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 45 HAWTHORNE.



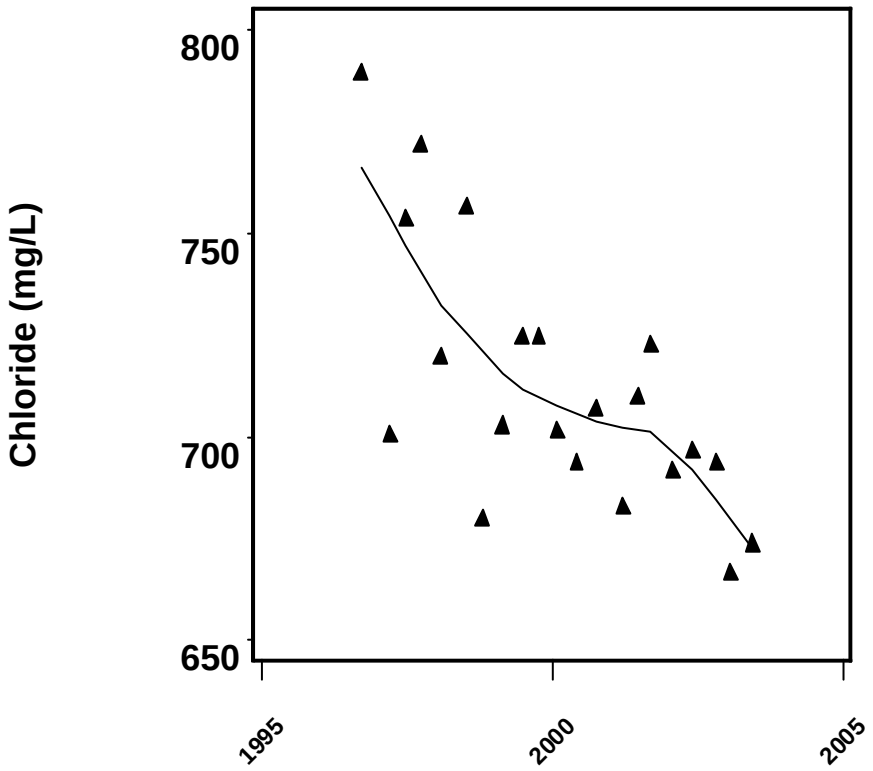


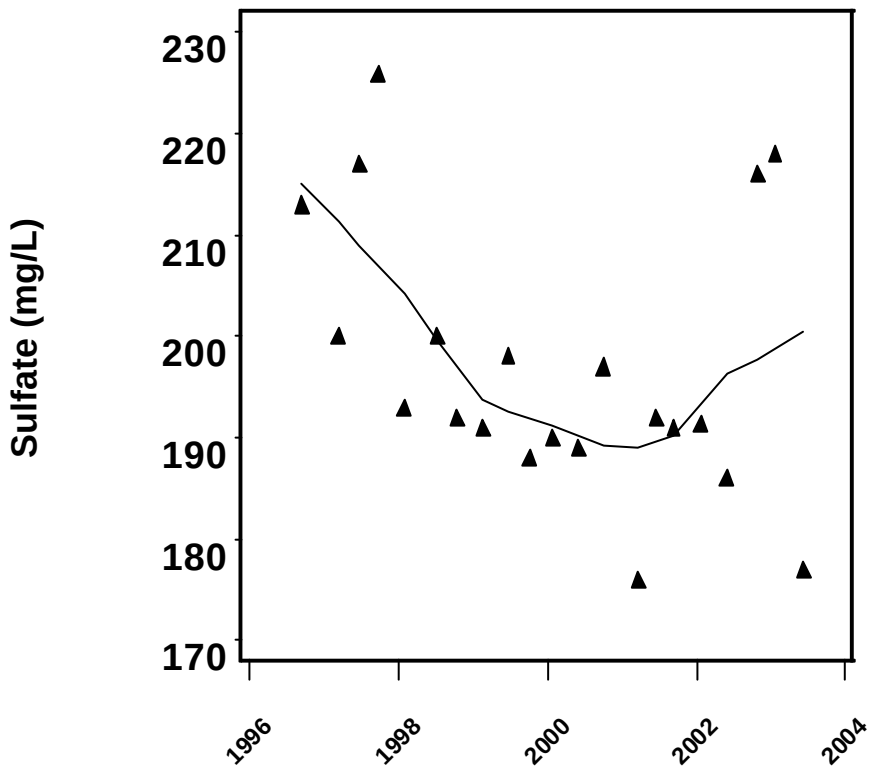
Appendix A-60. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 48 HAWTHORNE.



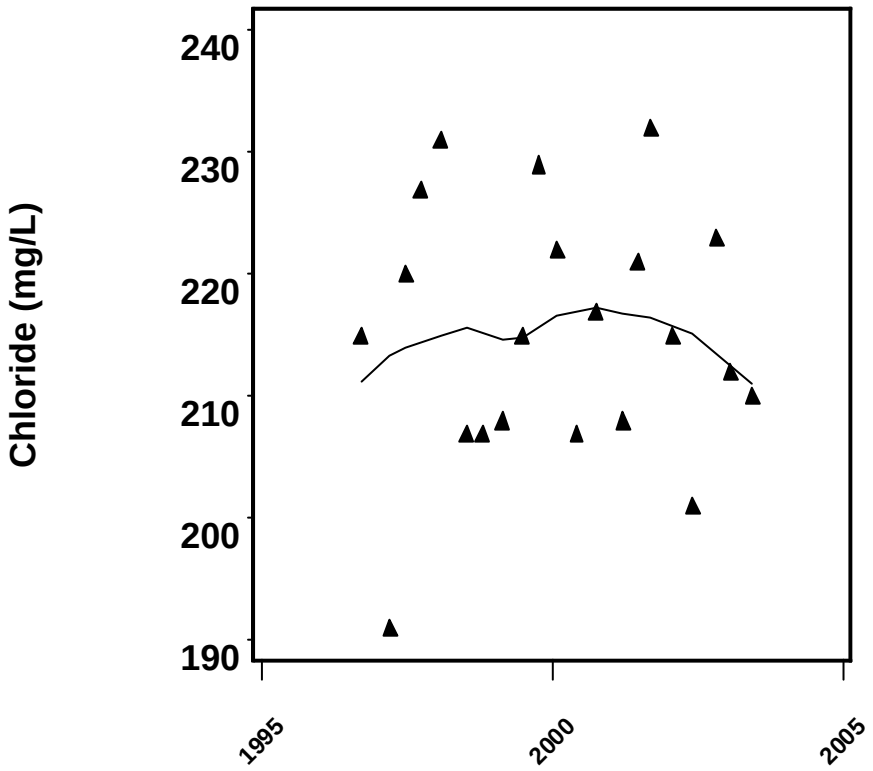


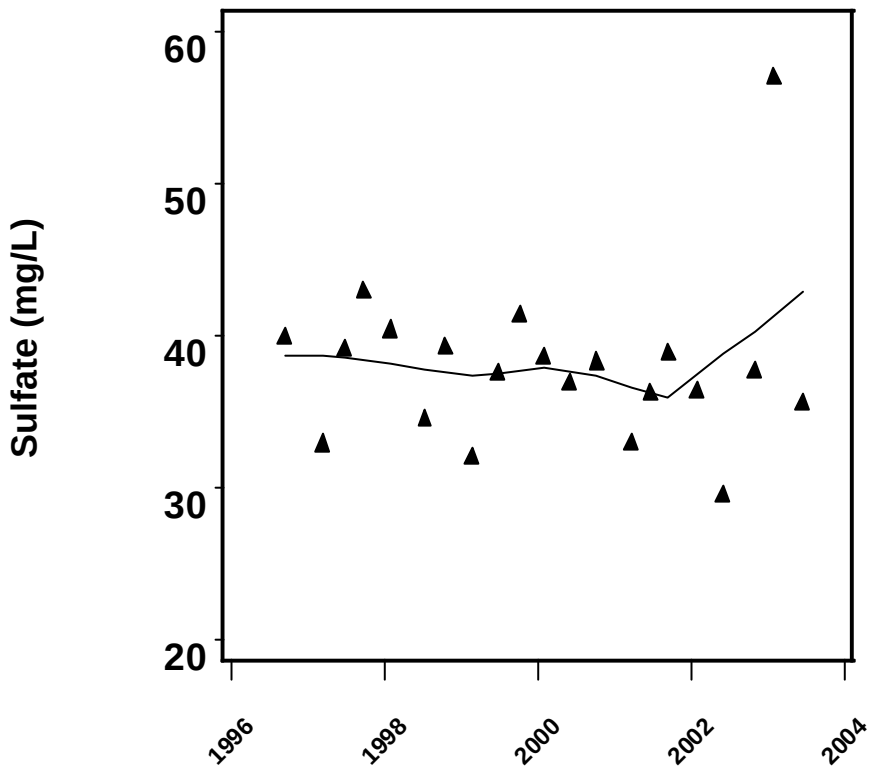
Appendix A-61. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 49 INTERMEDIATE.



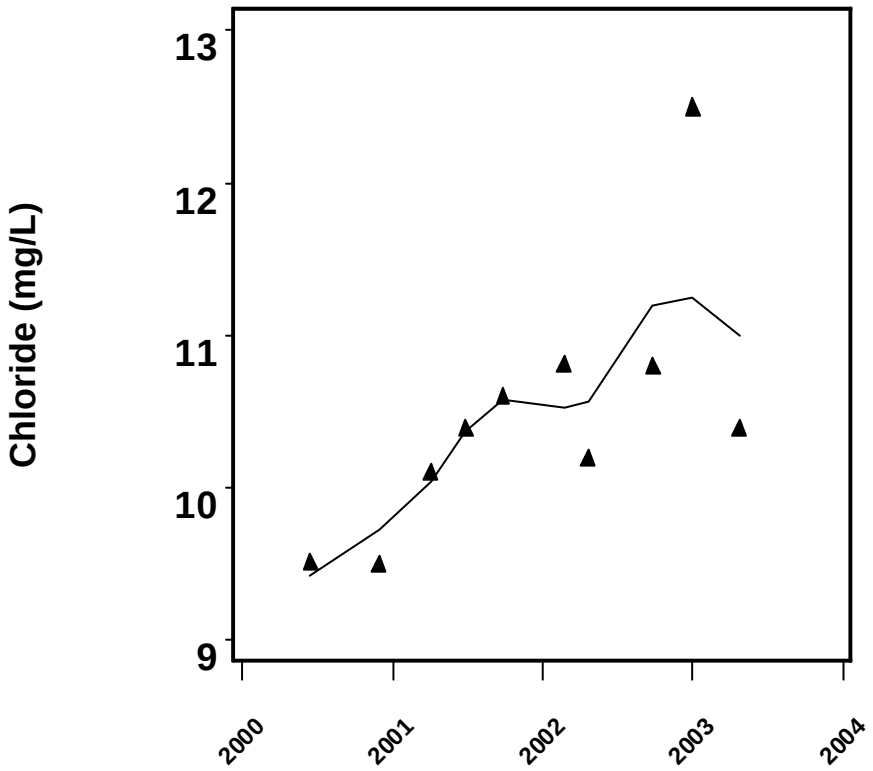


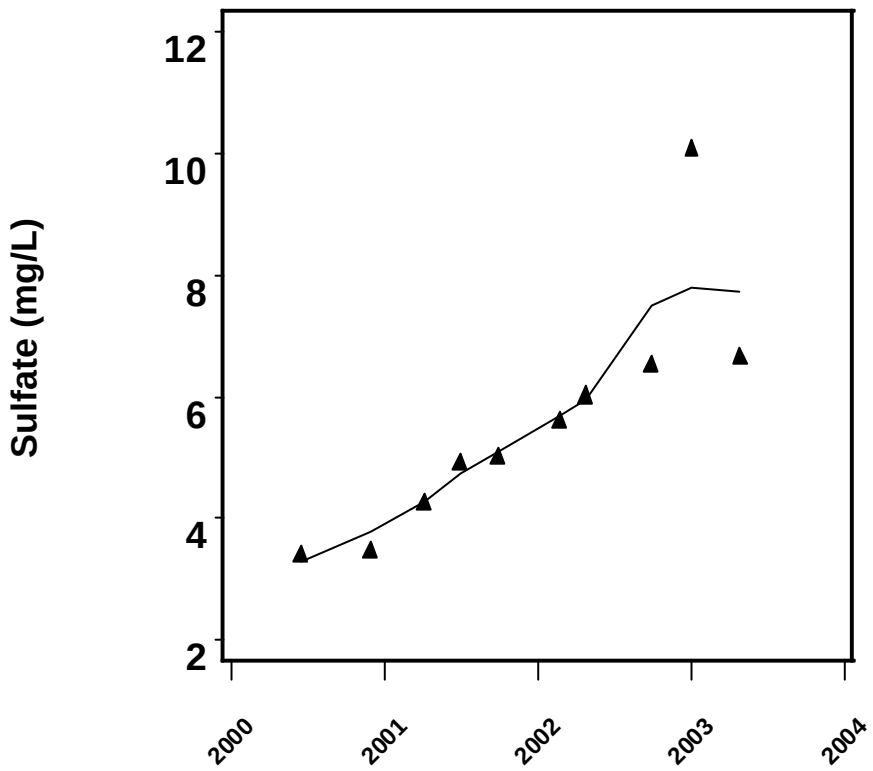
Appendix A-62. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 5 LOWER INTERMEDIATE.



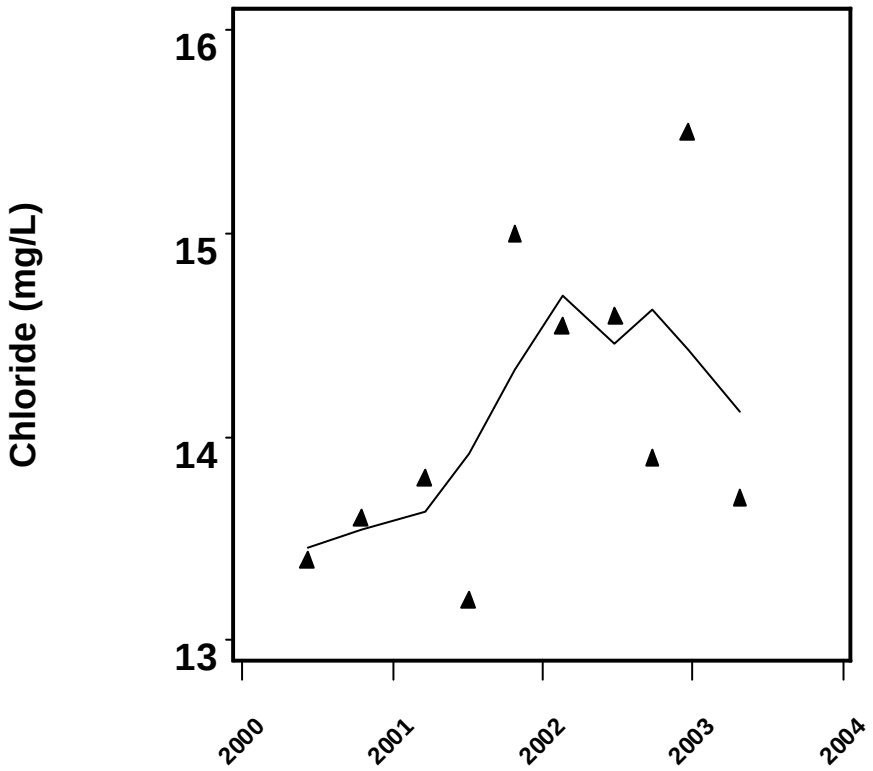


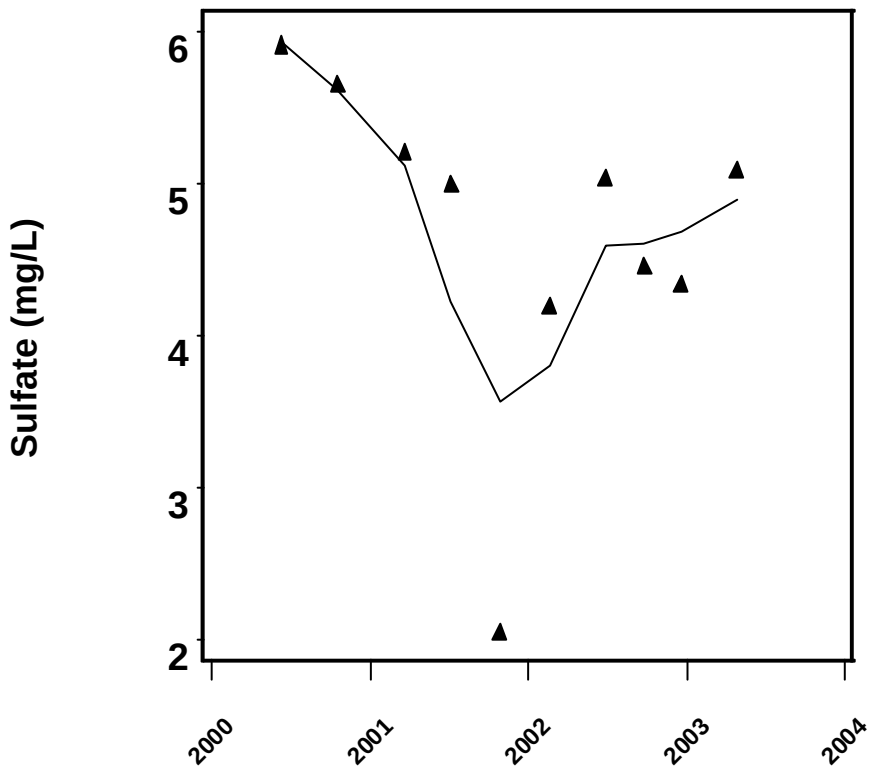
Appendix A-63. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 5 UPPER INTERMEDIATE.



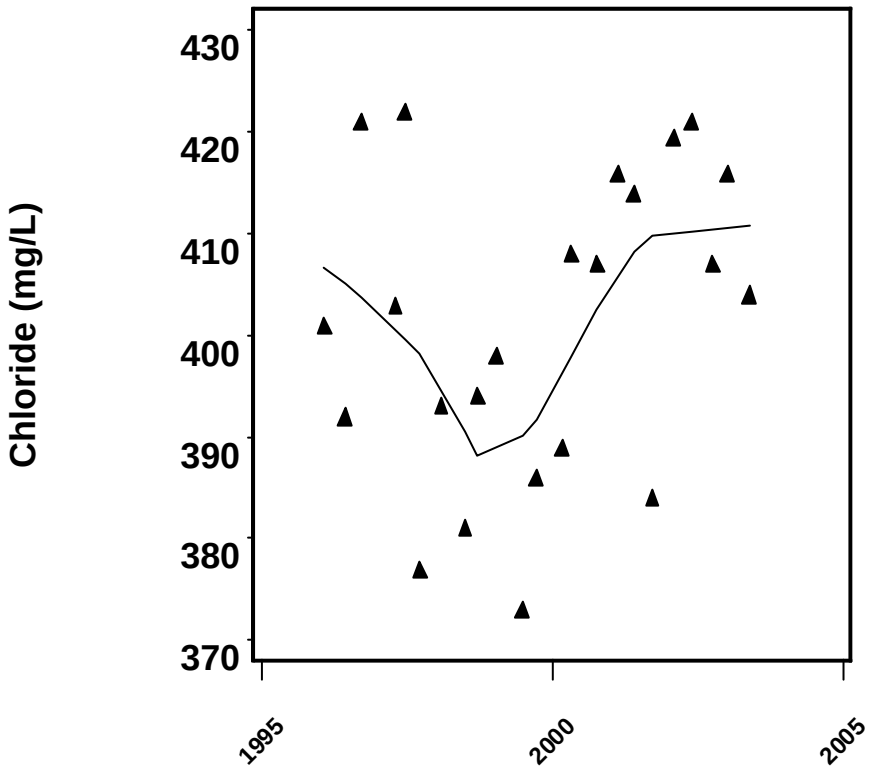


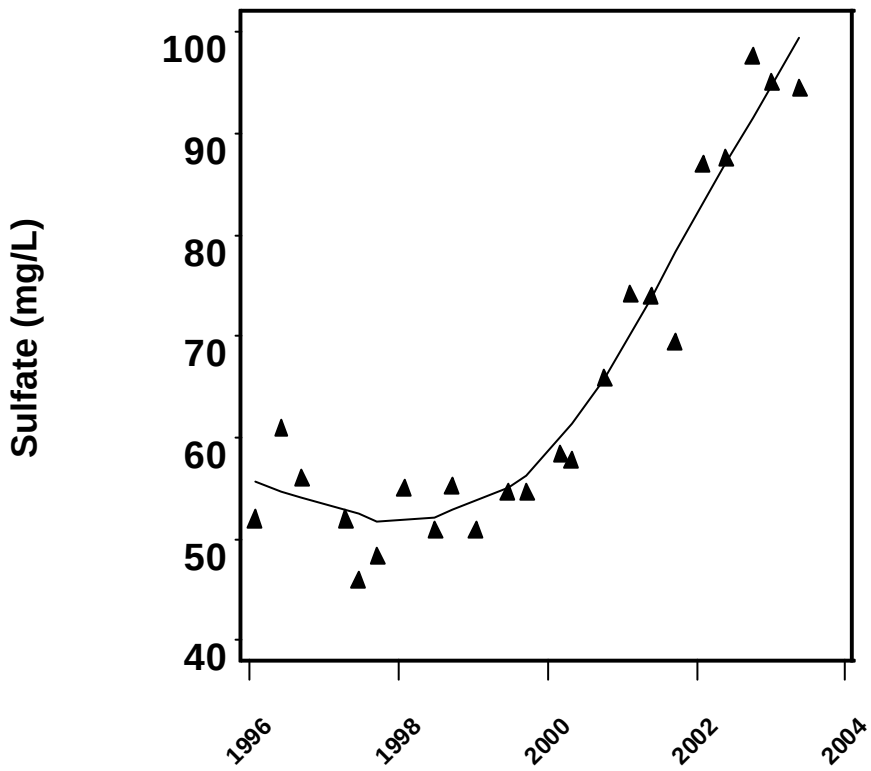
Appendix A-64. Water Quality Scatterplots Fitted with a LOWESS Curve for 57-2 HAWTHORNE.



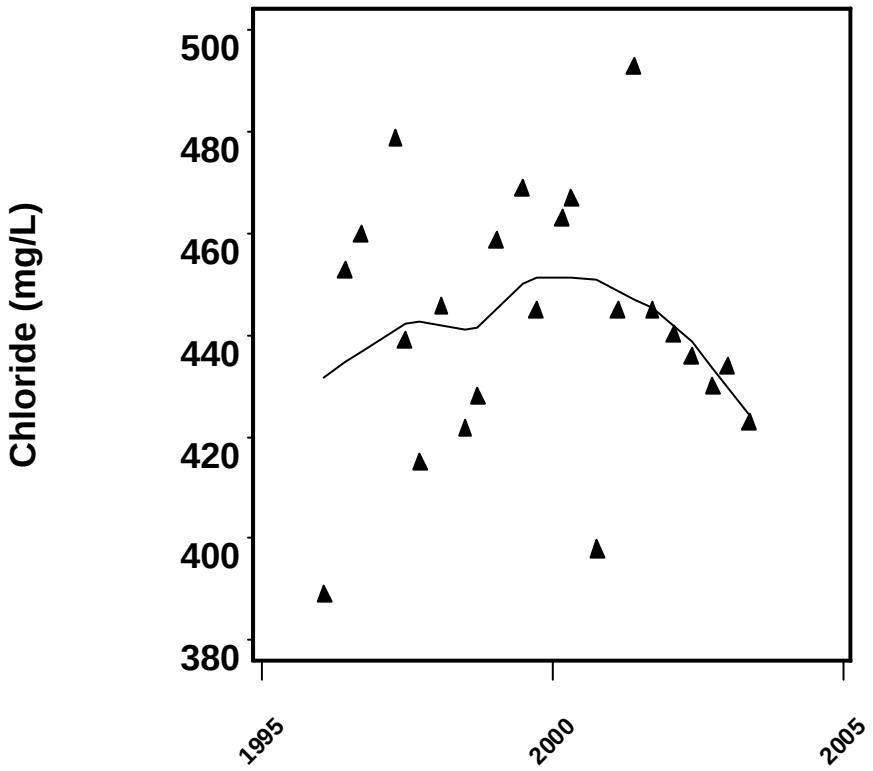


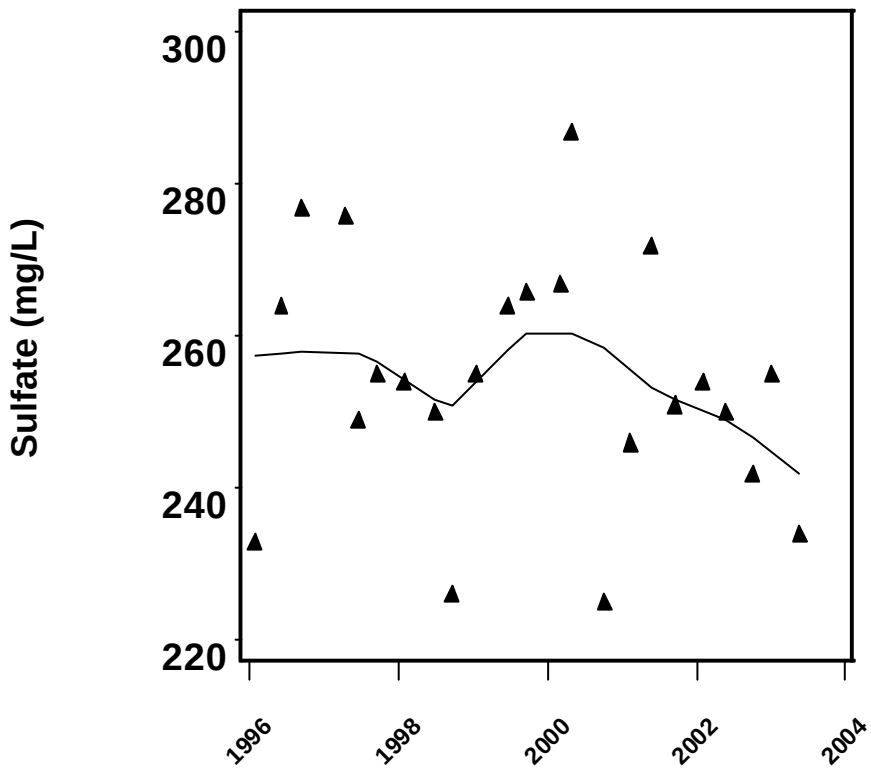
Appendix A-65. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 59 UPPER HAWTHORNE.



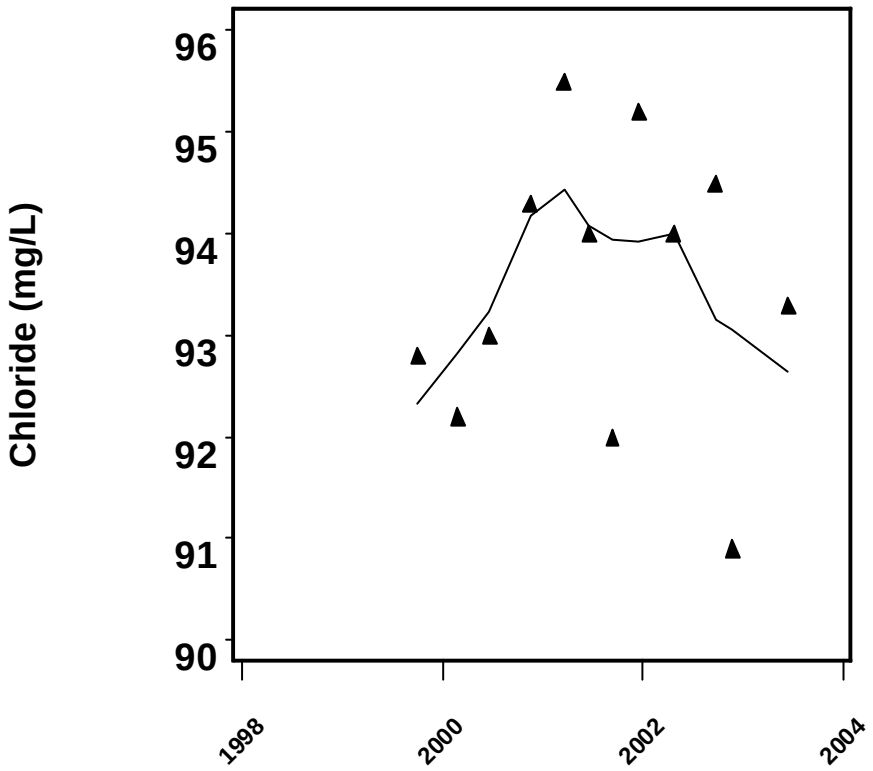


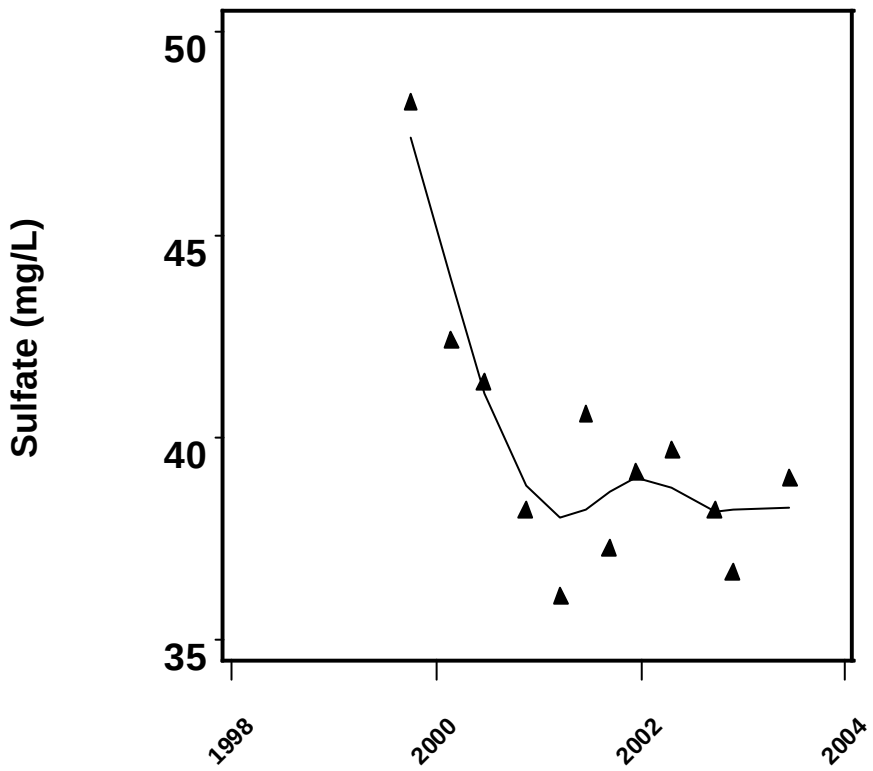
Appendix A-66. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9 INTERMEDIATE.



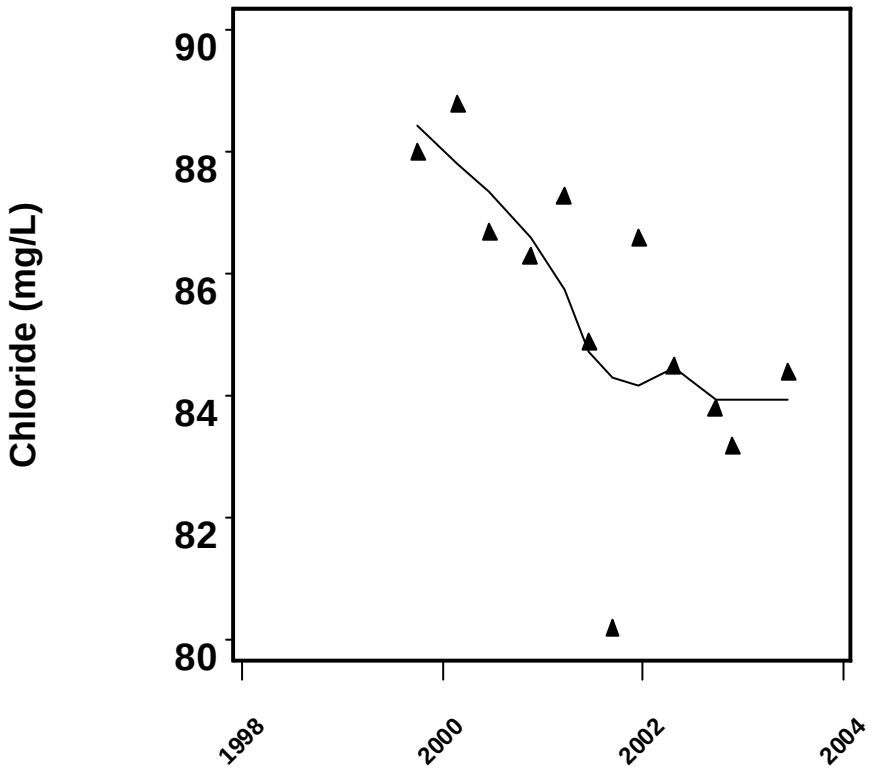


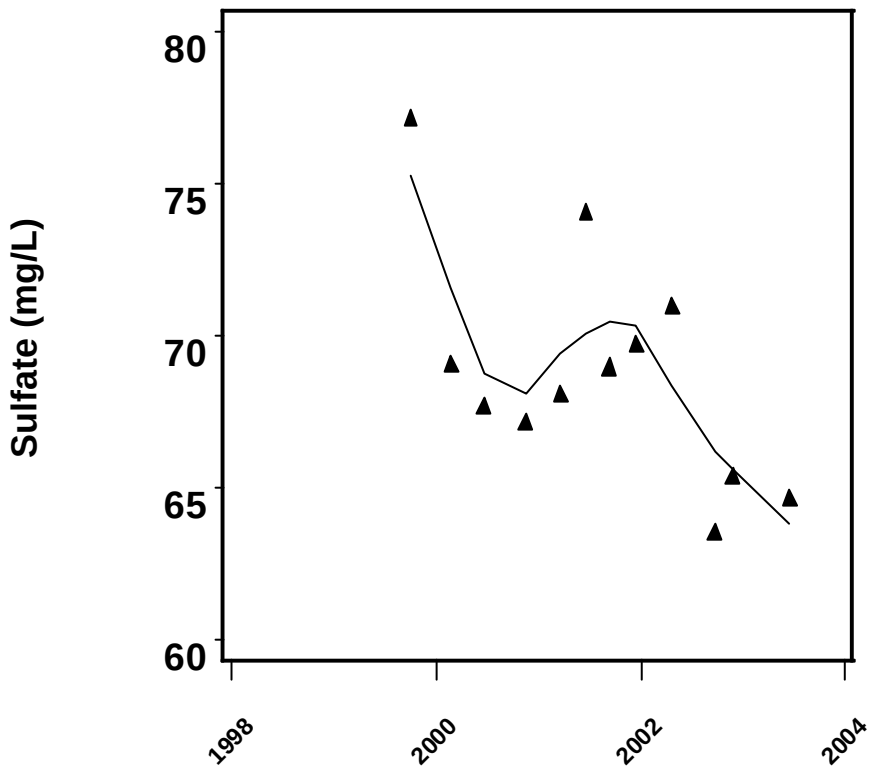
Appendix A-67. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9 LOWER INT.



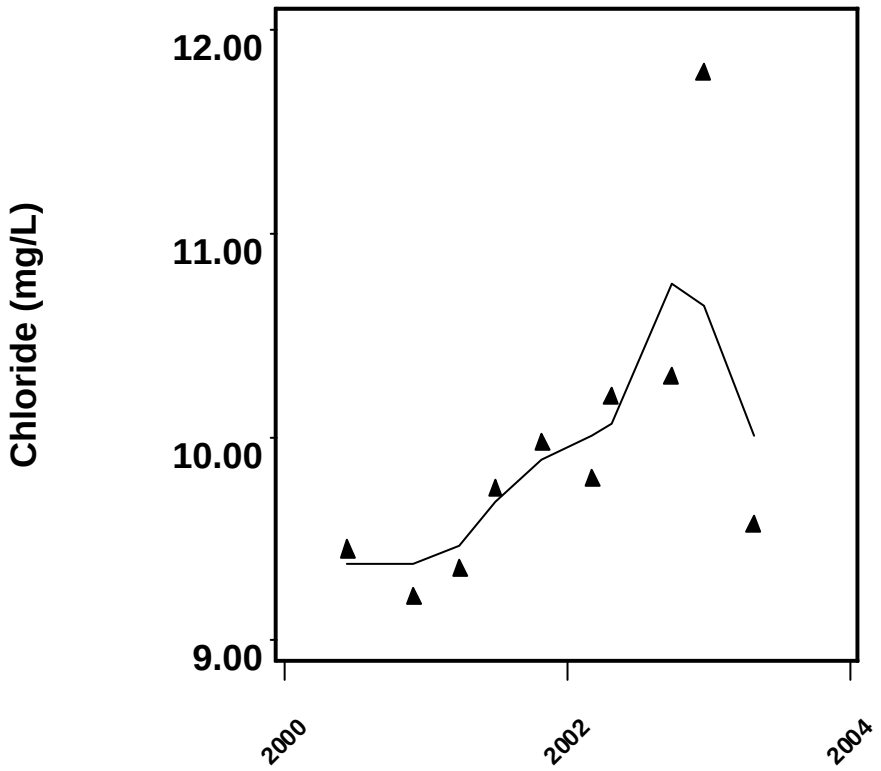


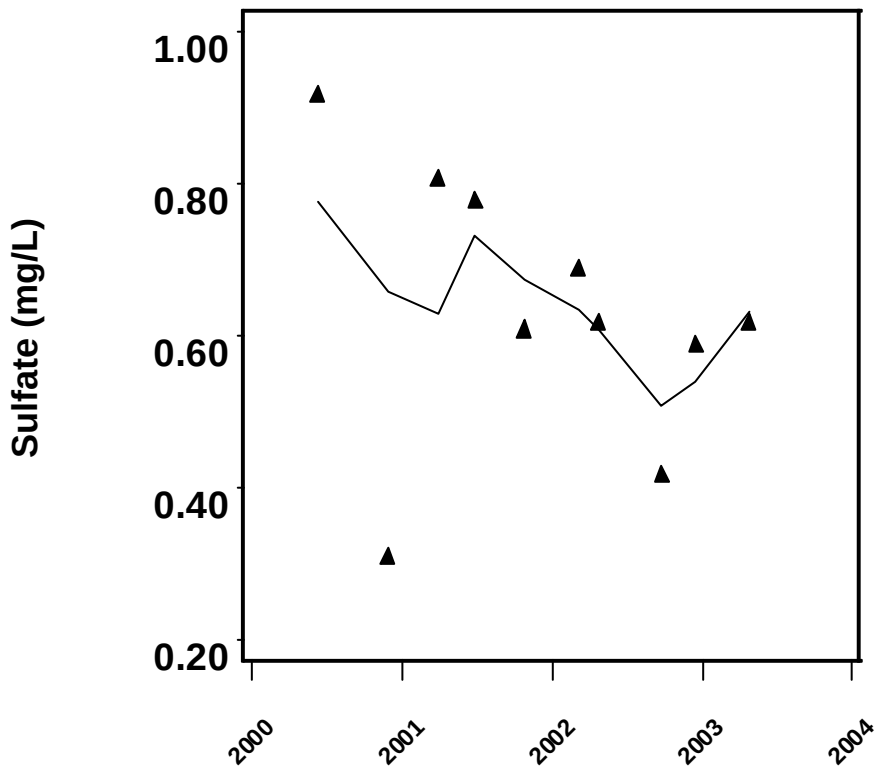
Appendix A-68. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9.5 LOWER INT.



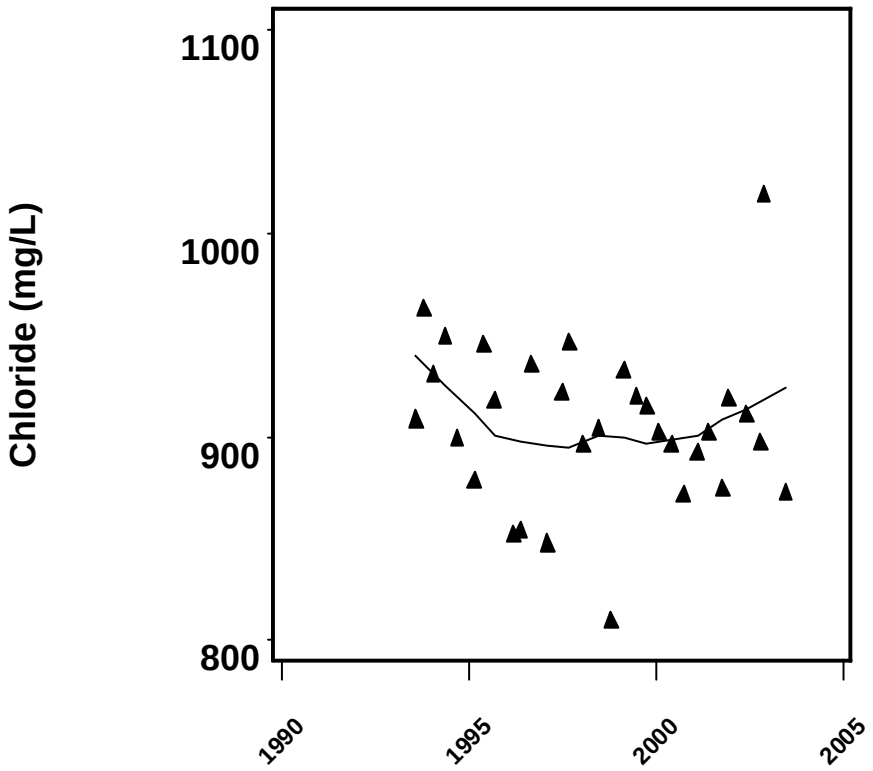


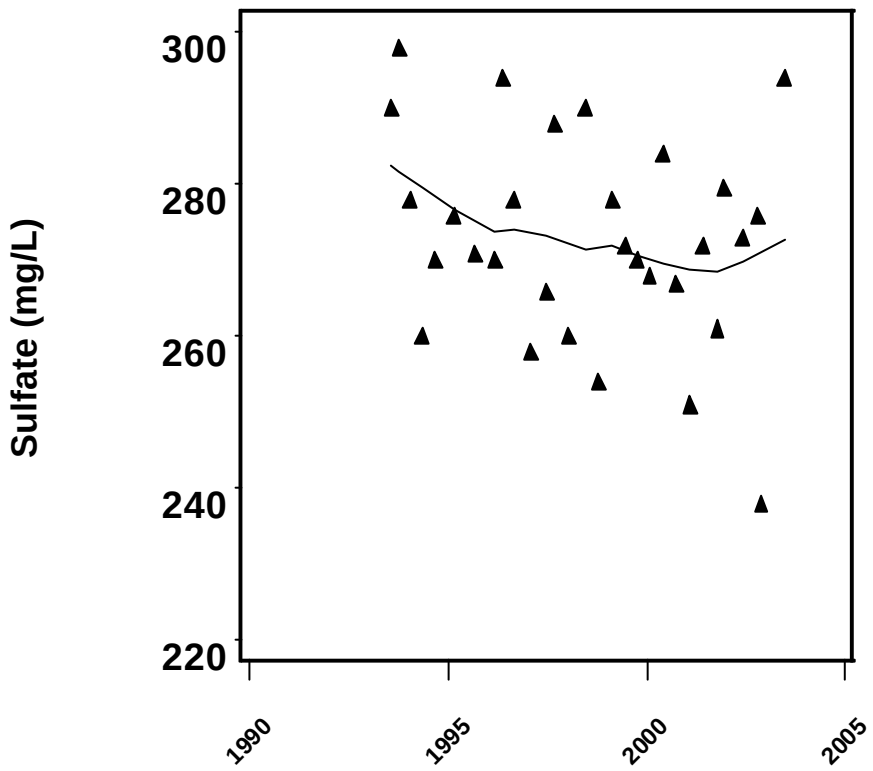
Appendix A-69. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9.5 UPPER INT.



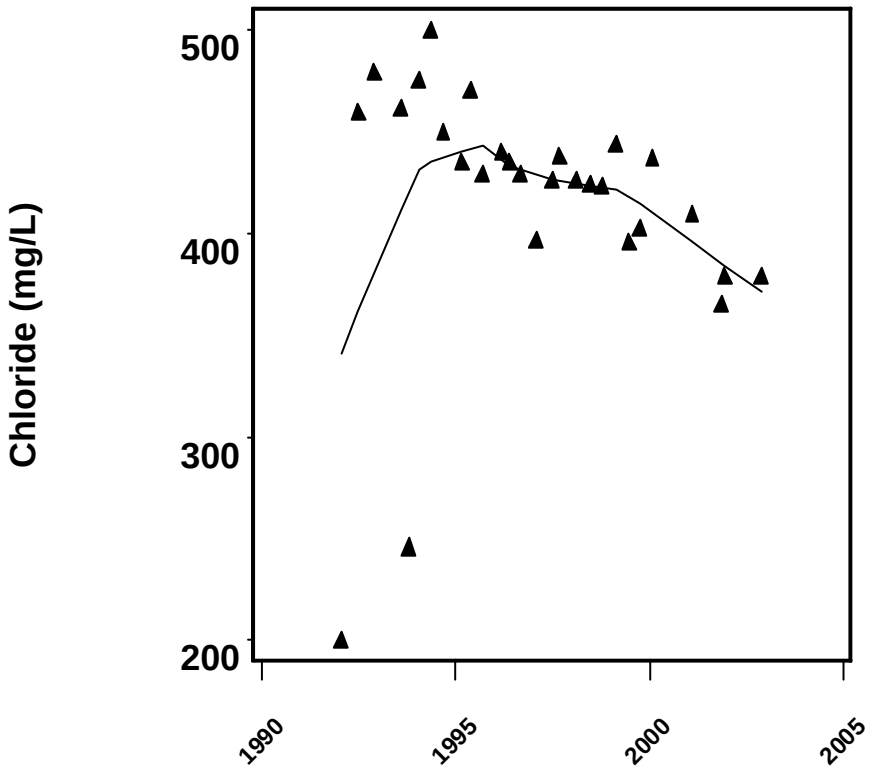


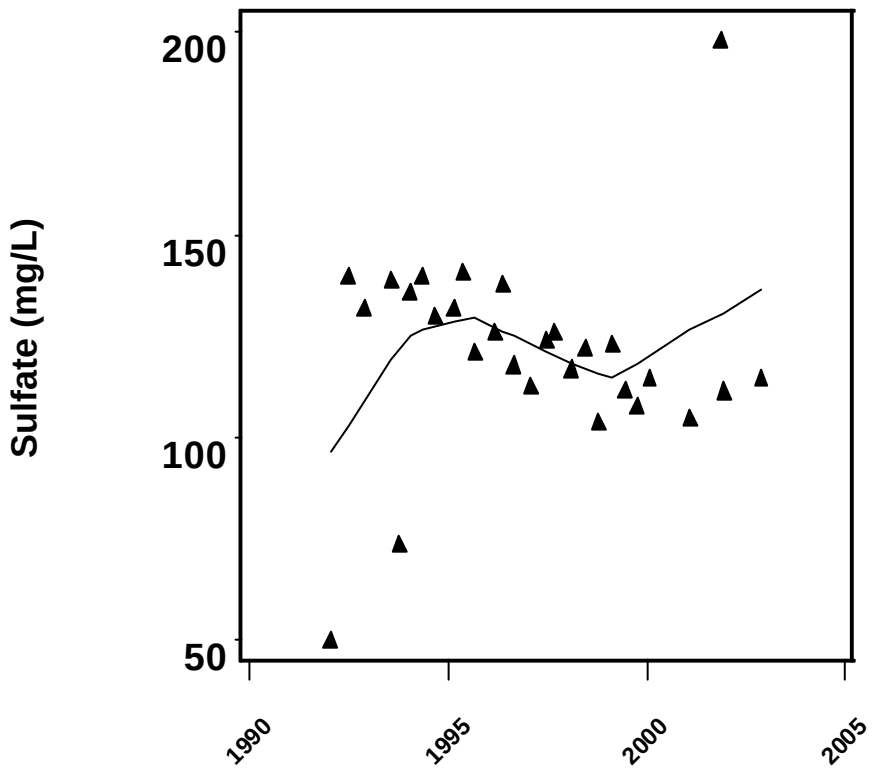
Appendix A-70. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP CL-3 INTERMEDIATE.



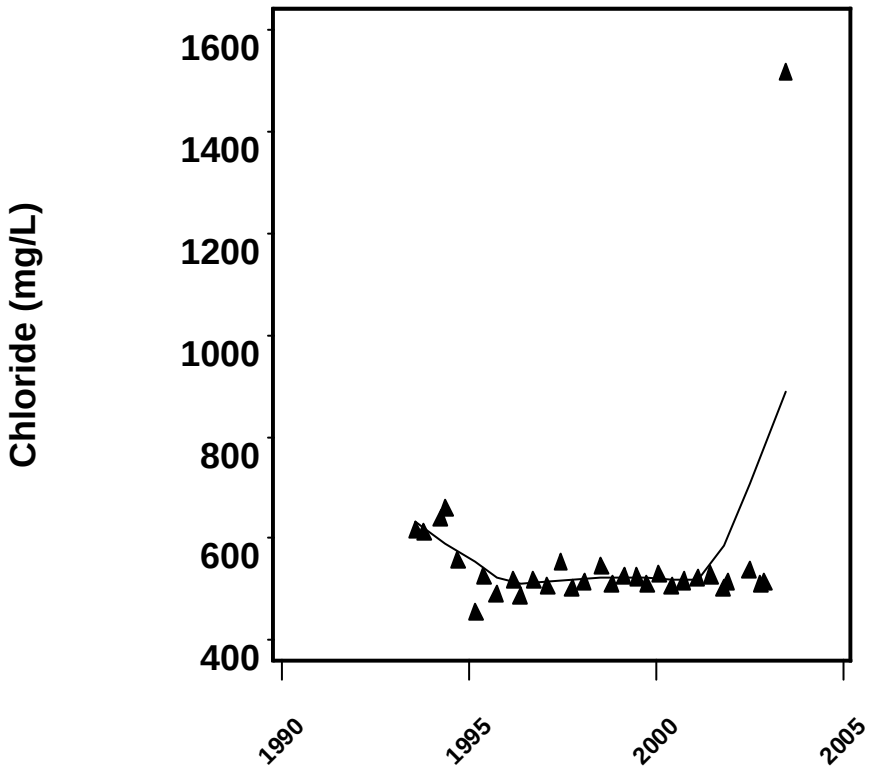


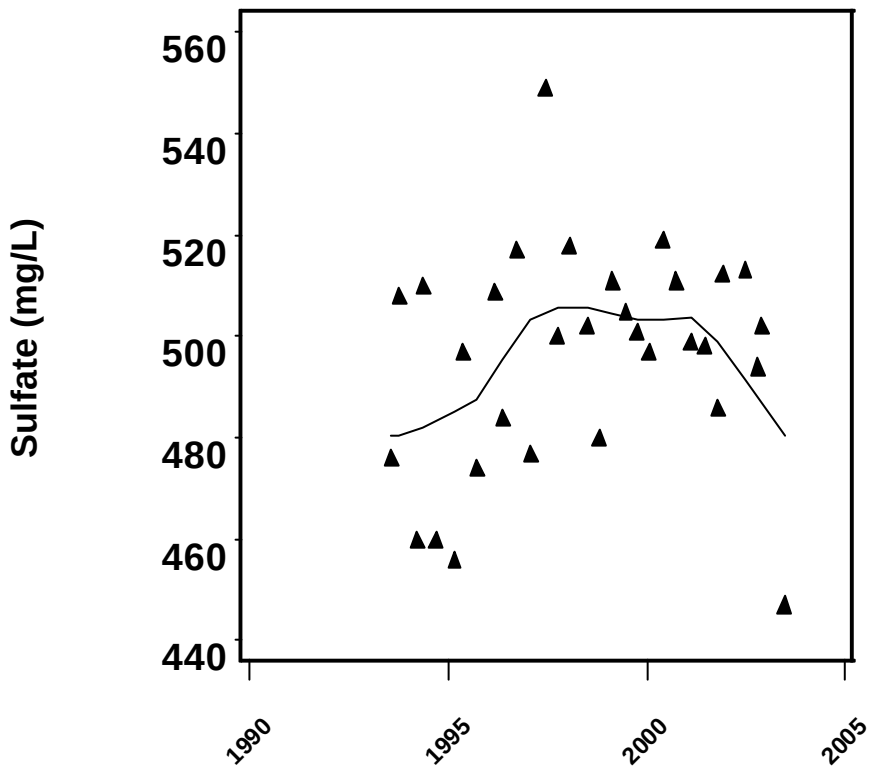
Appendix A-71. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 1-2 LOWER HAWTHORNE.



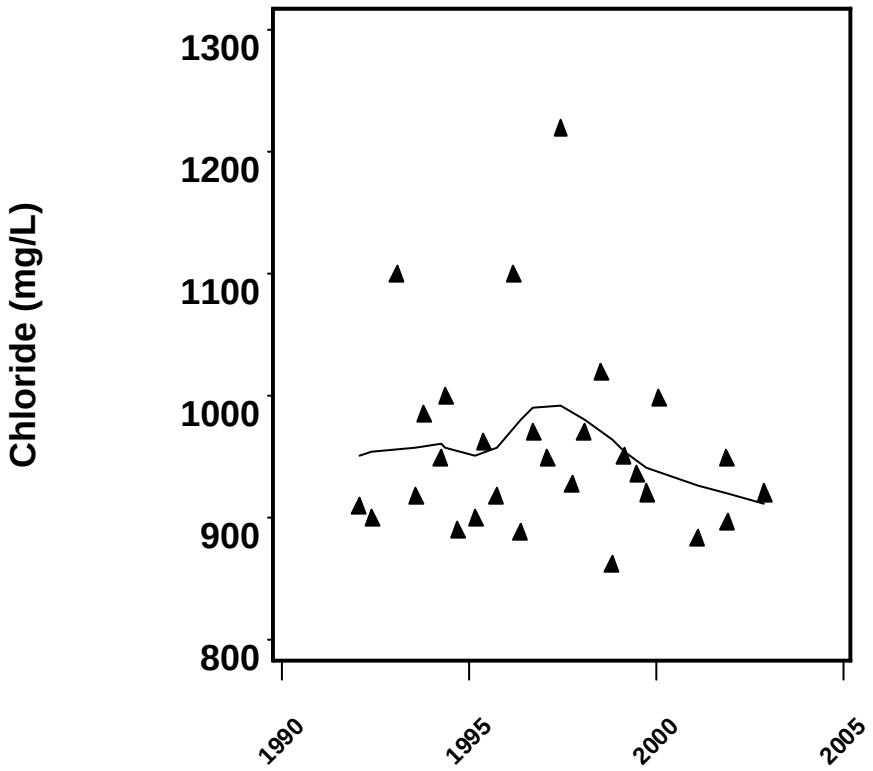


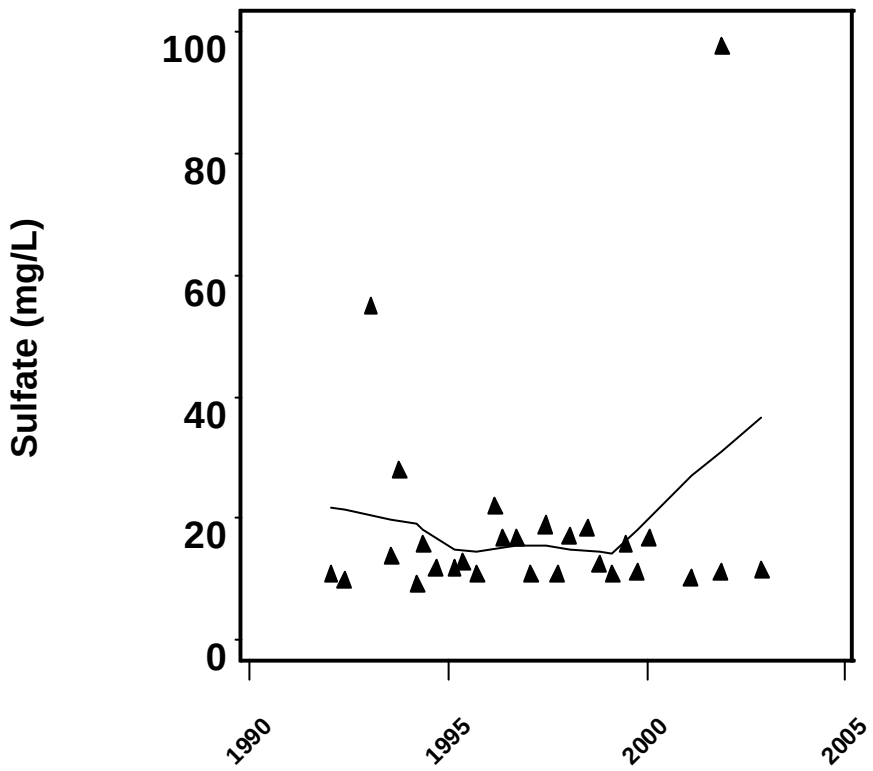
Appendix A-72. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 1-2 UPPER INTERMEDIATE.



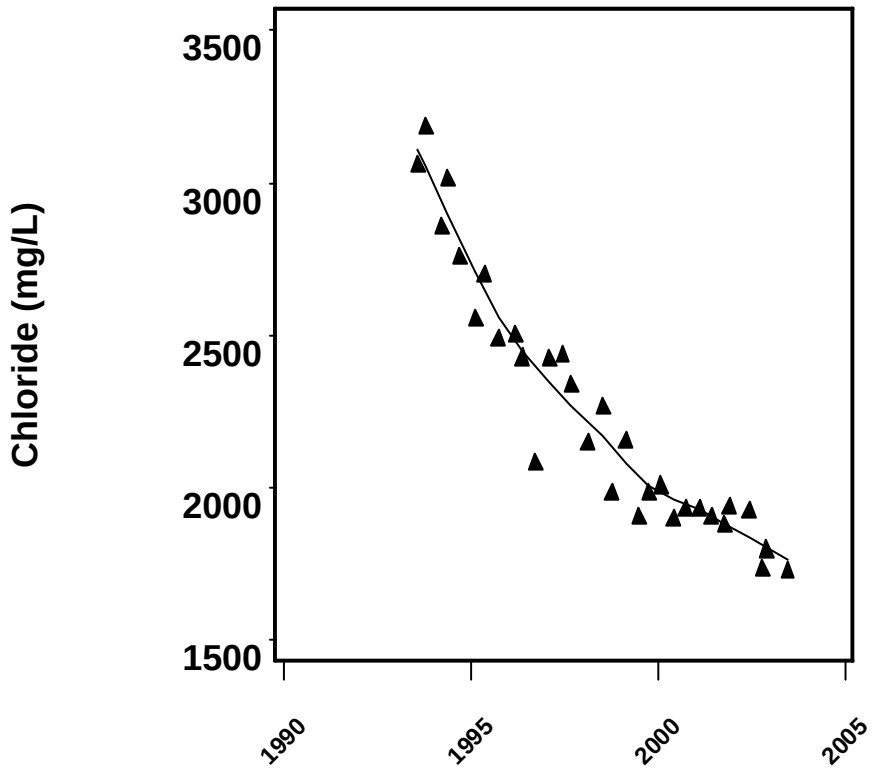


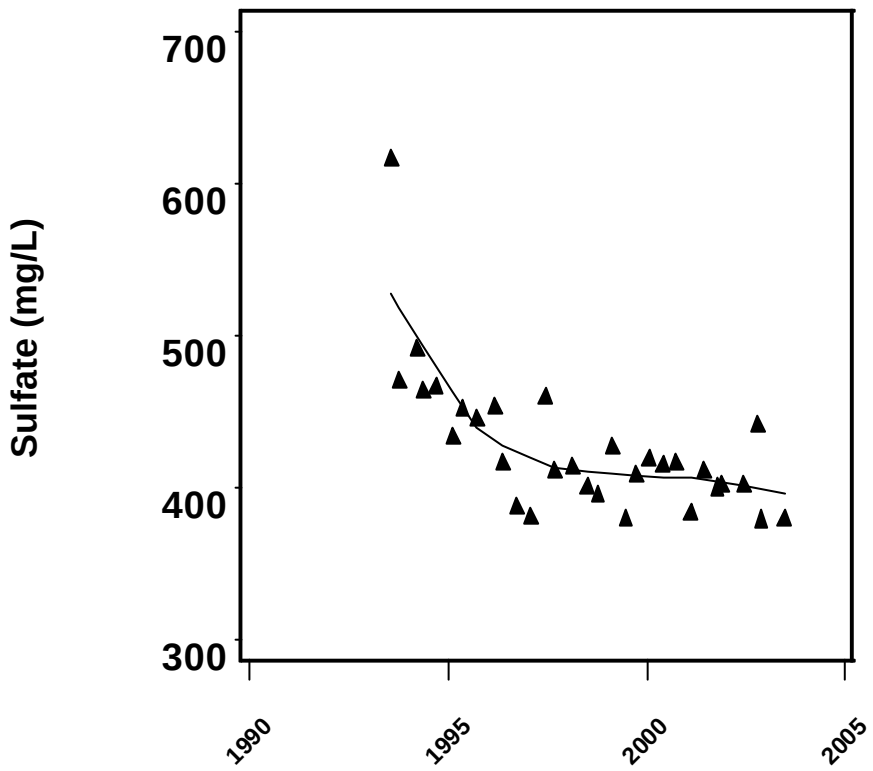
Appendix A-73. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-1 LOWER HAWTHORNE.



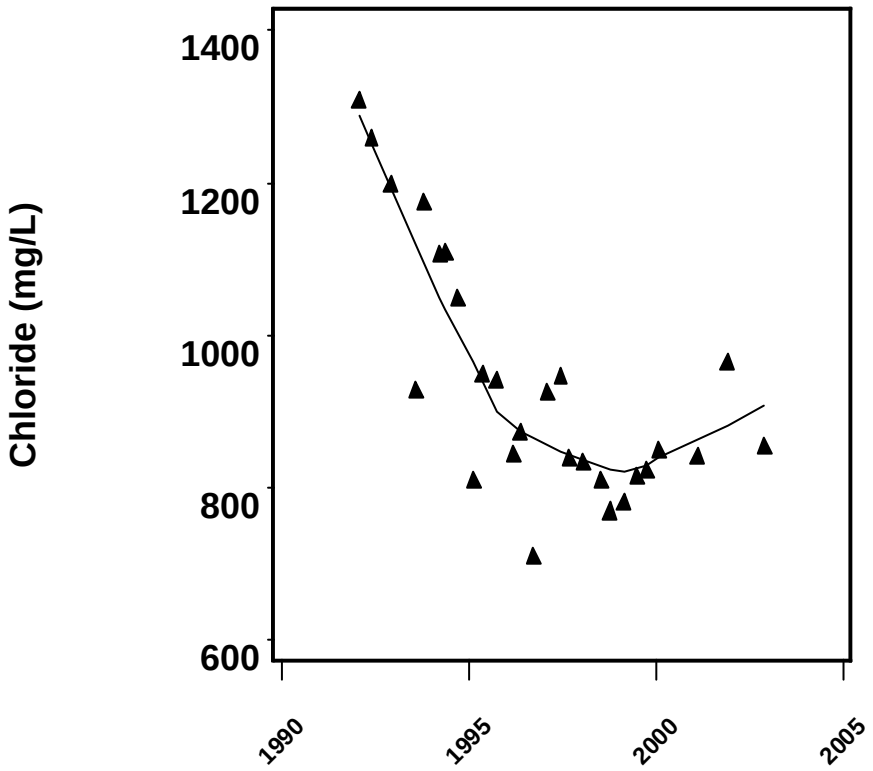


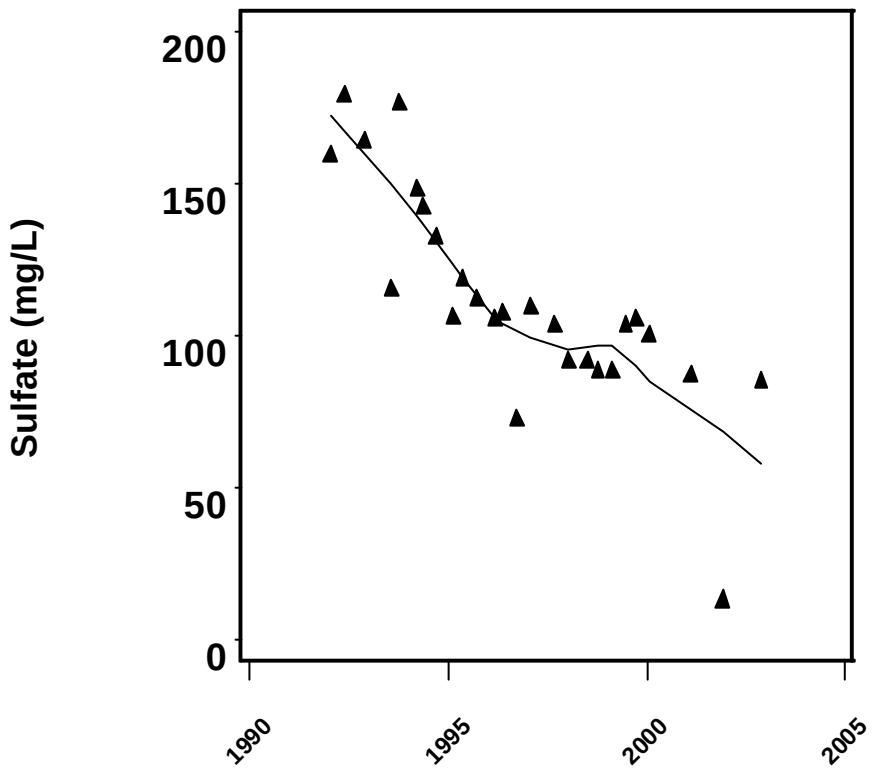
Appendix A-74. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-1 UPPER HAWTHORNE.



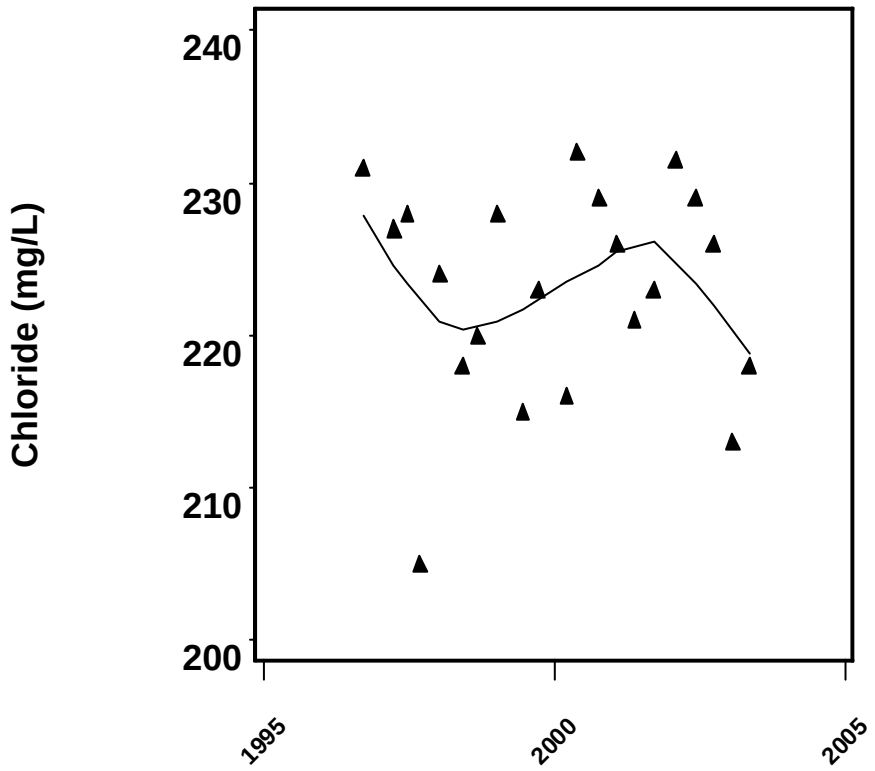


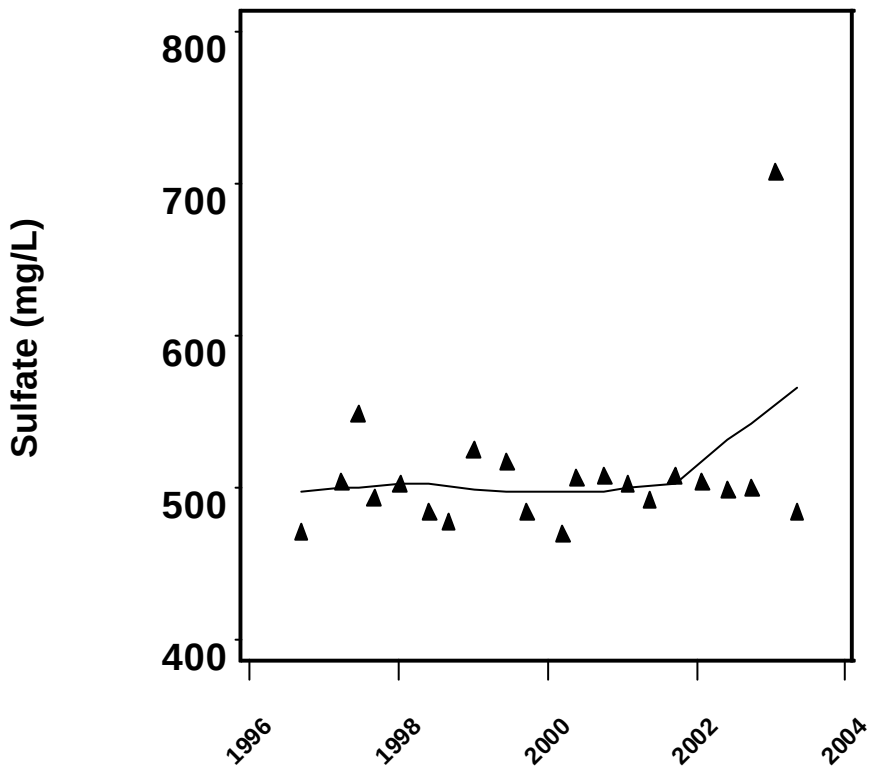
Appendix A-75. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-3 LOWER INTERMEDIATE.



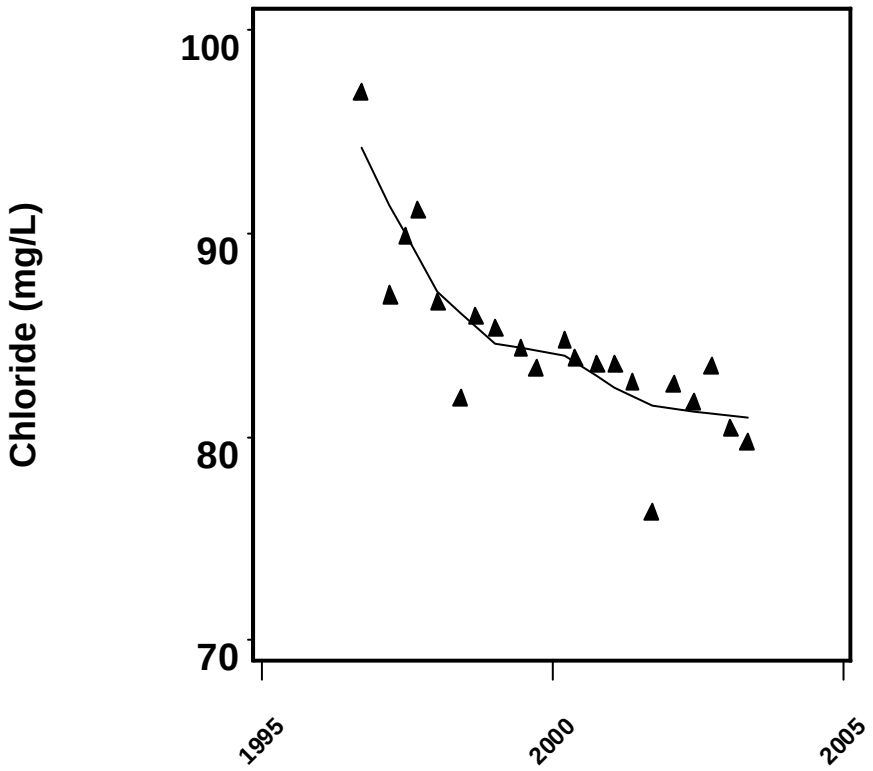


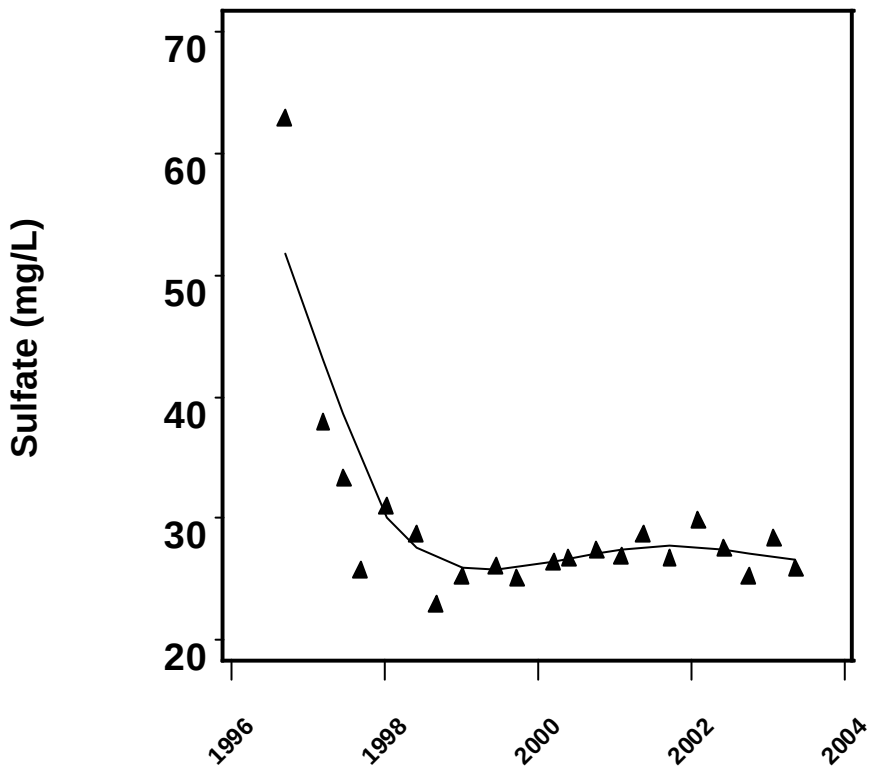
Appendix A-76. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-3 UPPER HAWTHORNE.



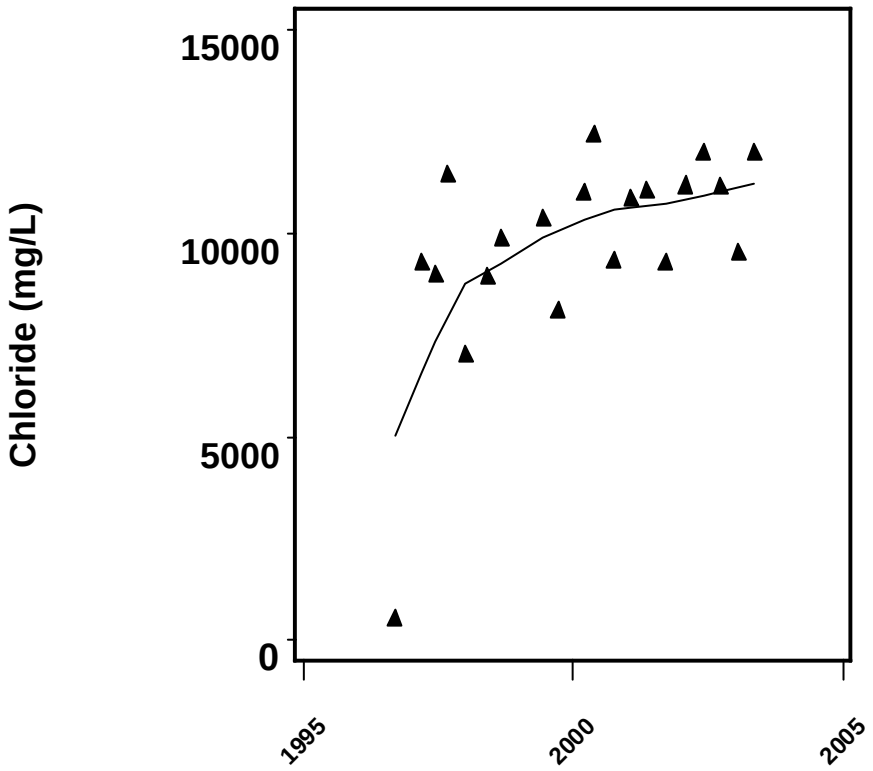


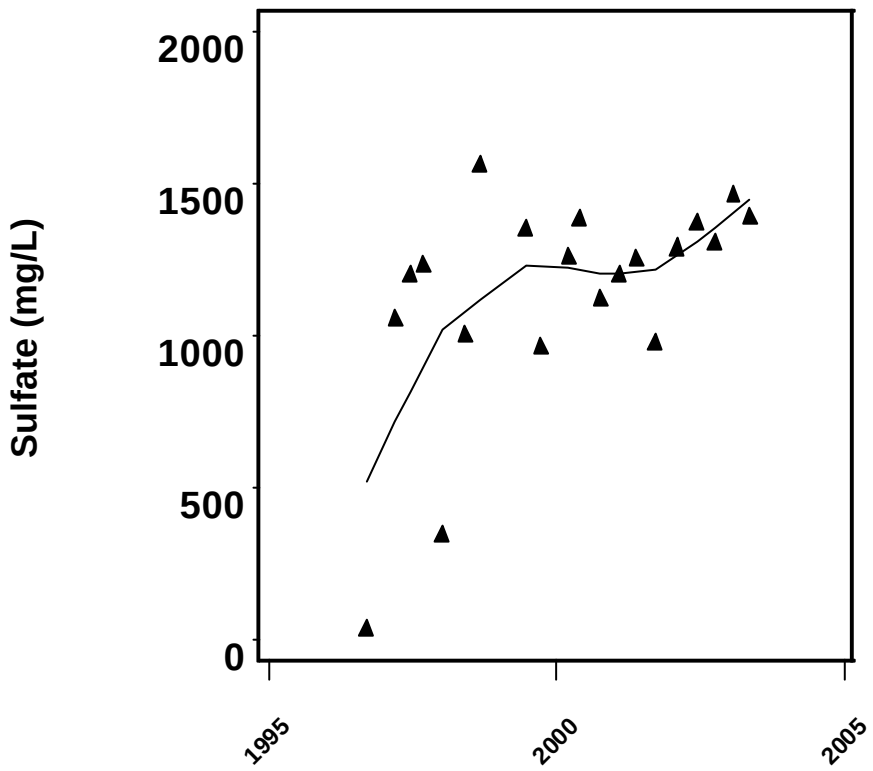
Appendix A-77. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 4-1 LOWER INTERMEDIATE.



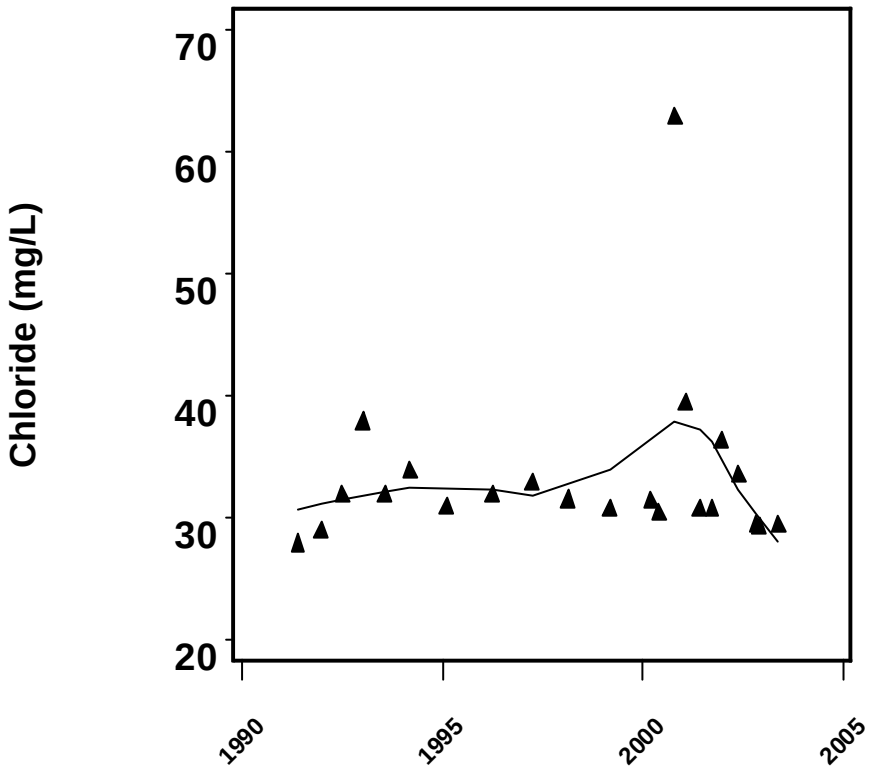


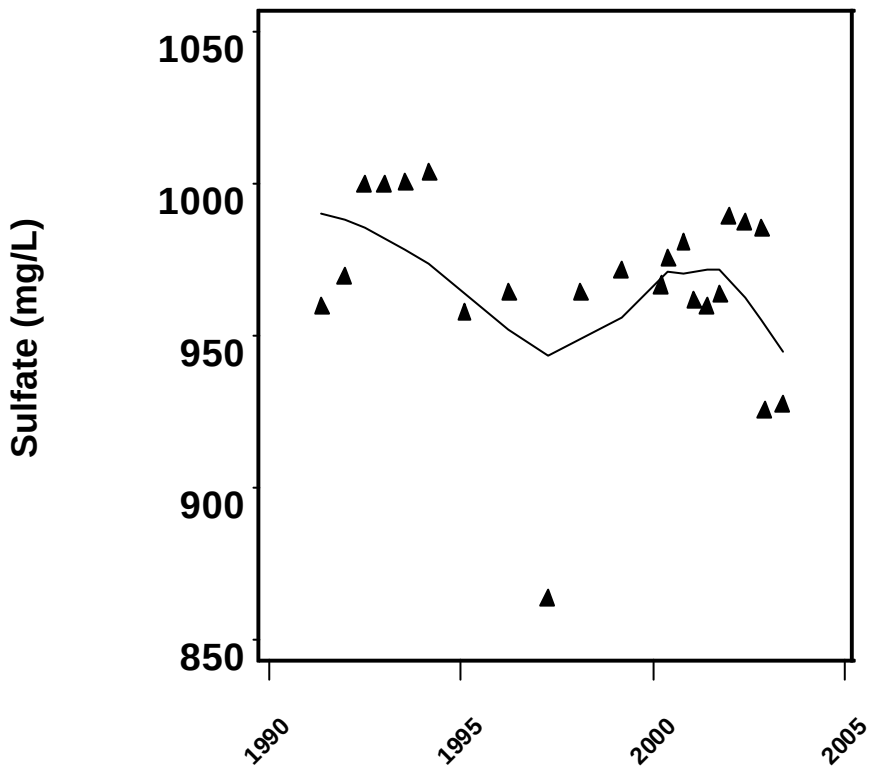
Appendix A-78. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 4-1 MIDDLE INTERMEDIATE.



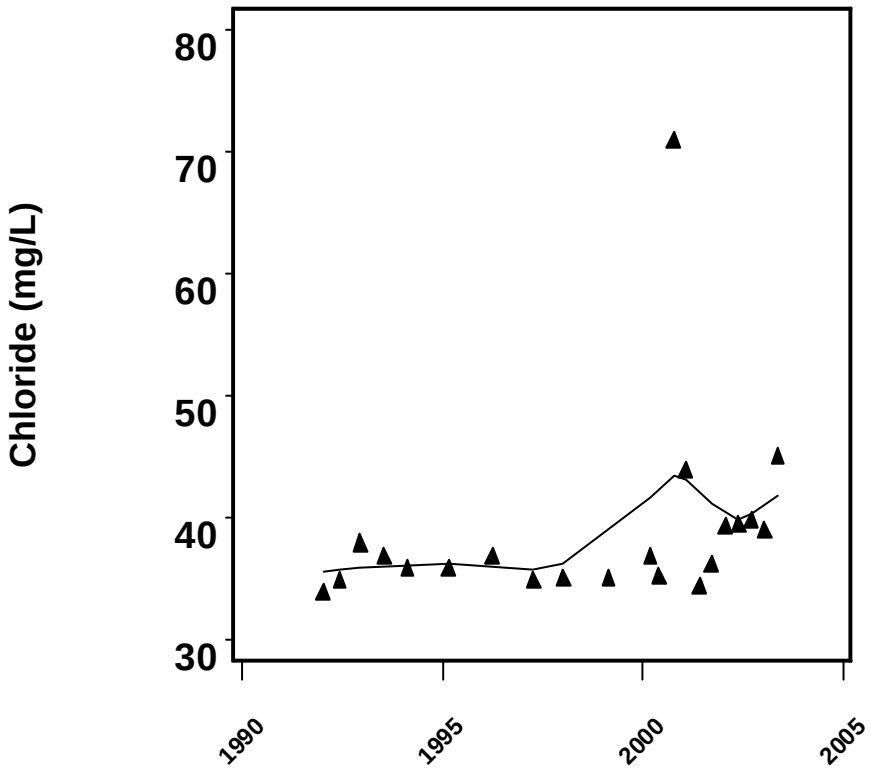


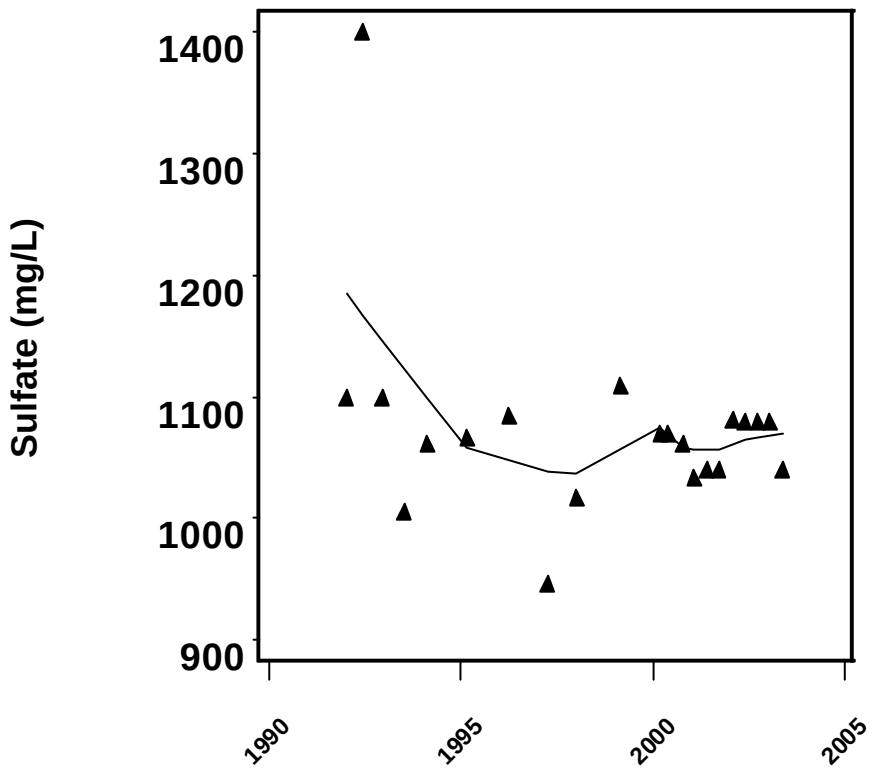
Appendix A-79. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 4-1 UPPER INTERMEDIATE.



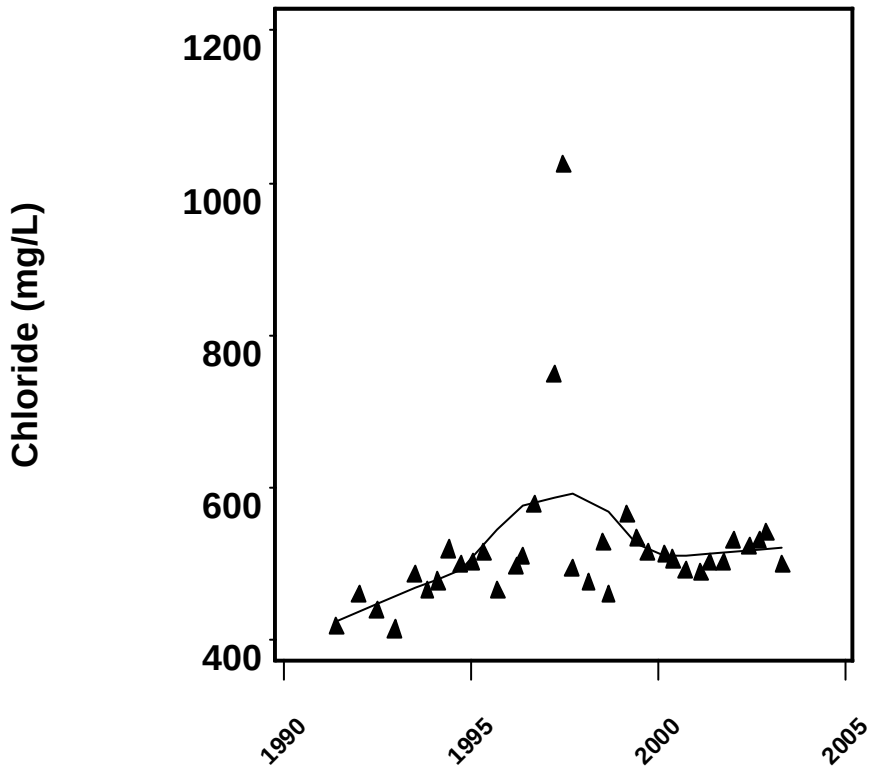


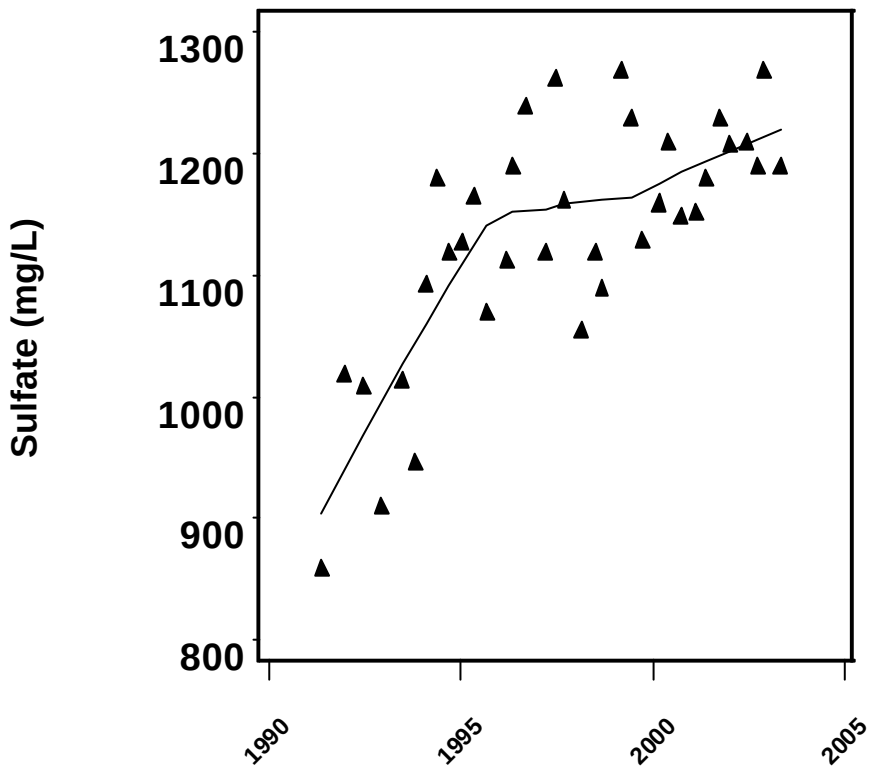
Appendix A-80. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 5-1 INTERMEDIATE.



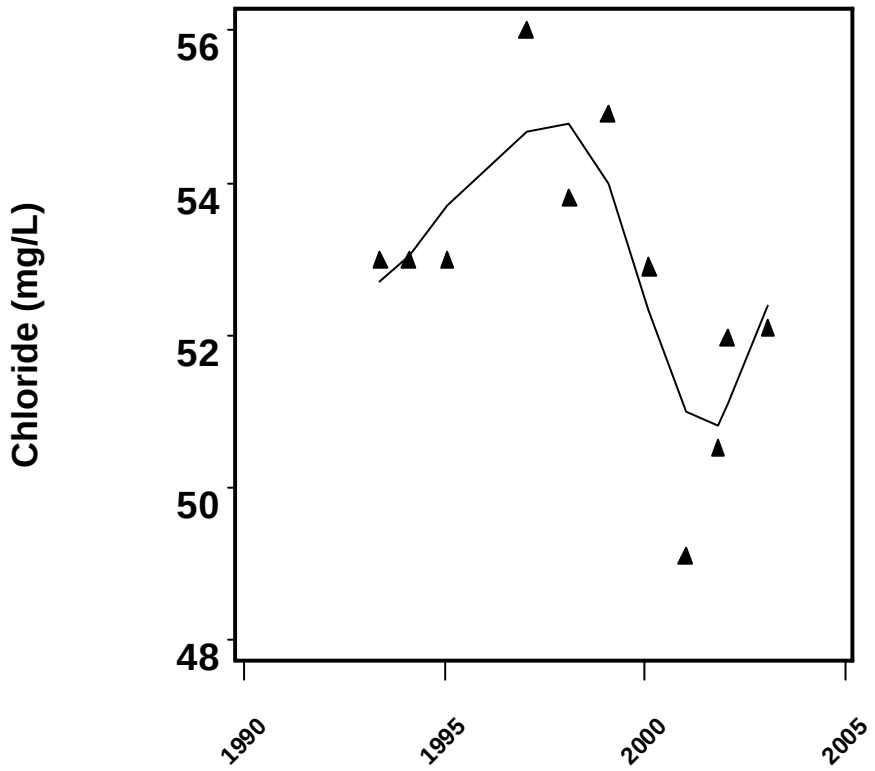


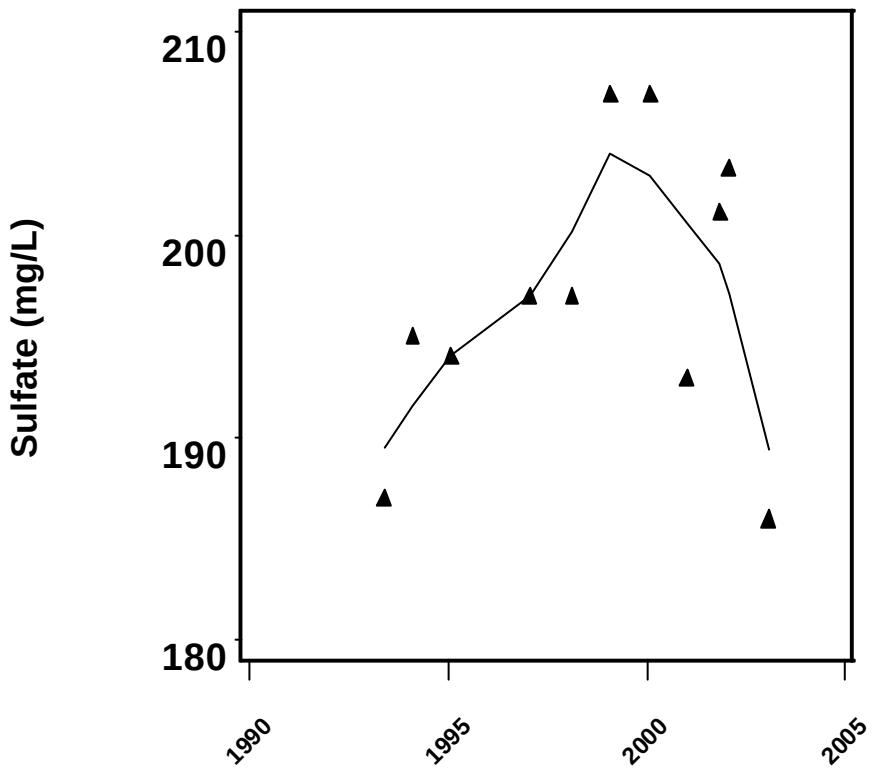
Appendix A-81. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 5-2 LOWER HAWTHORNE.



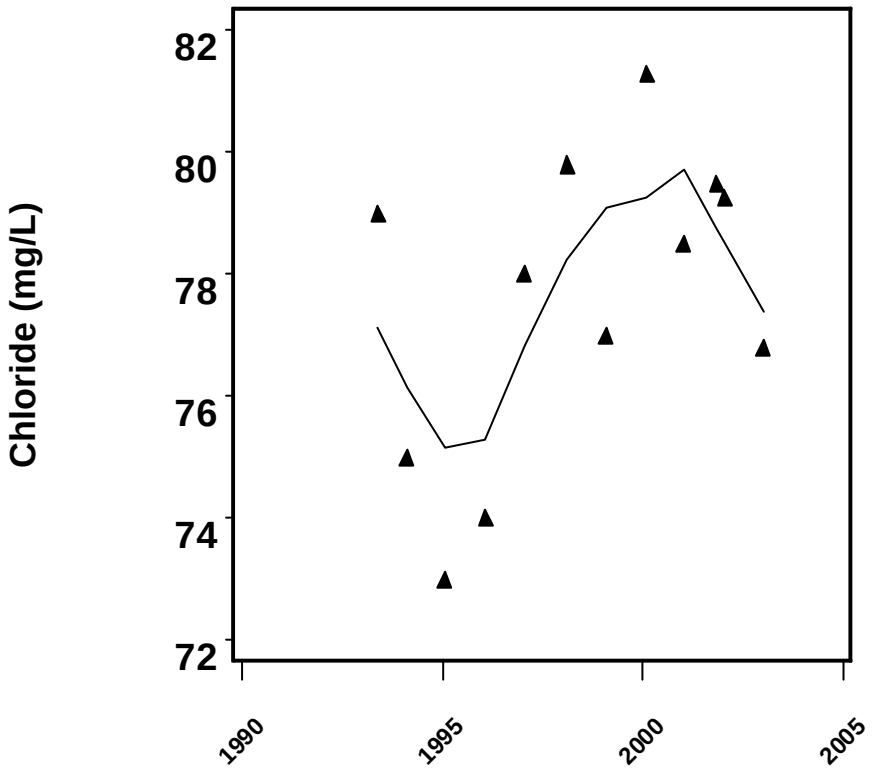


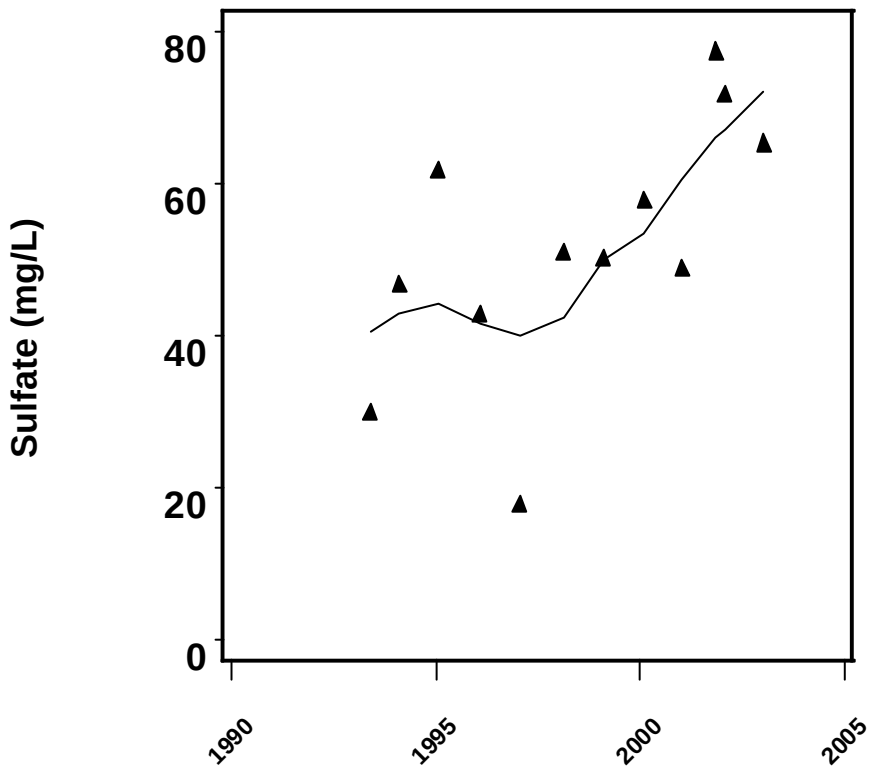
Appendix A-82. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 6-1 HAWTHORNE.



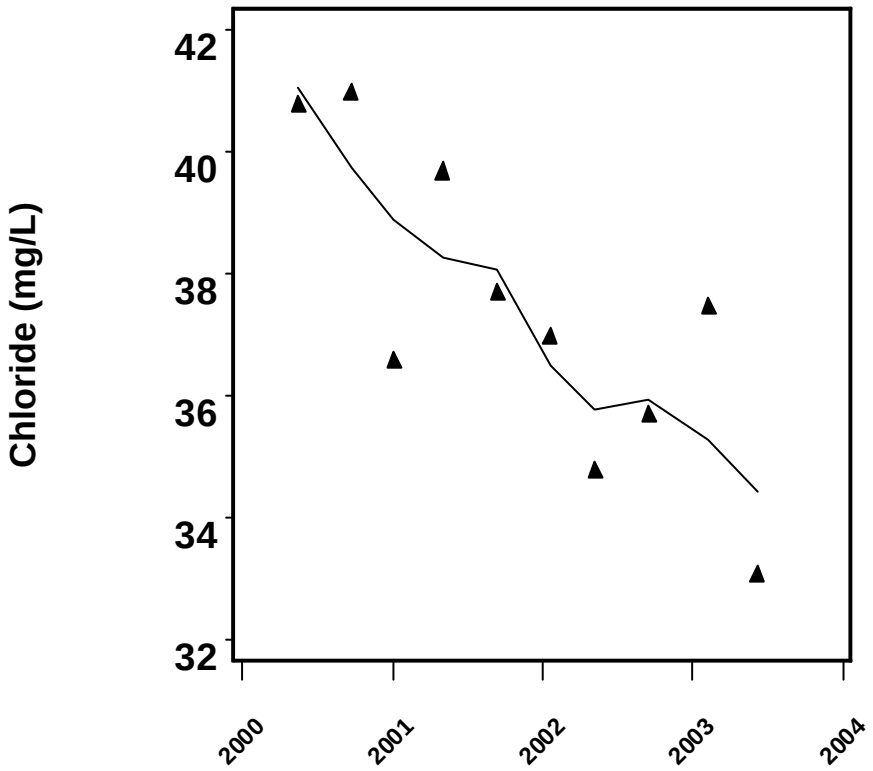


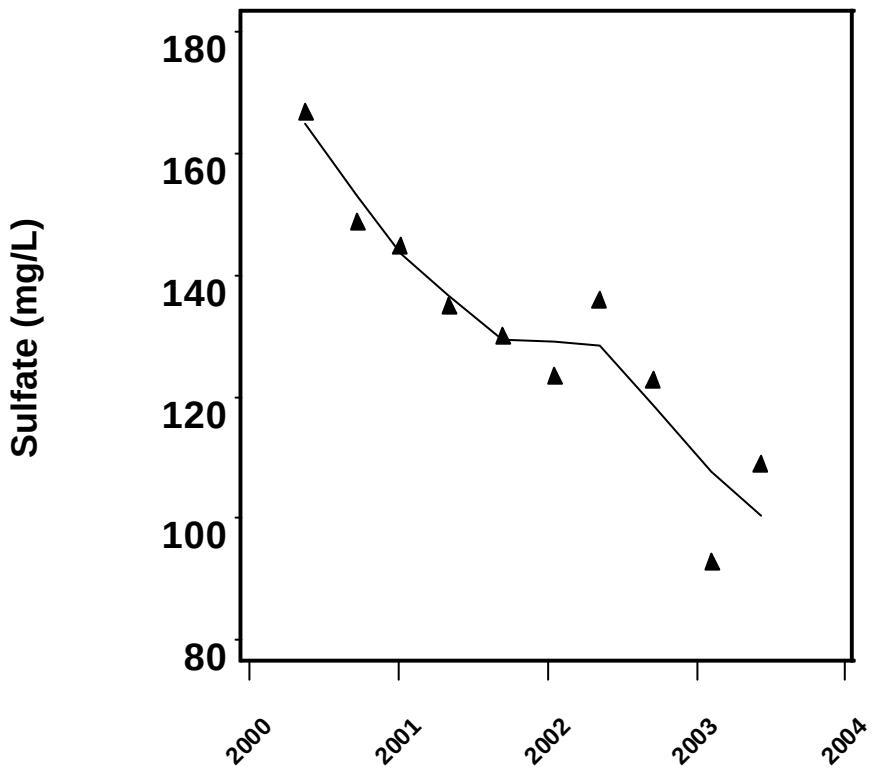
Appendix A-83. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-2 LOWER INTERMEDIATE.



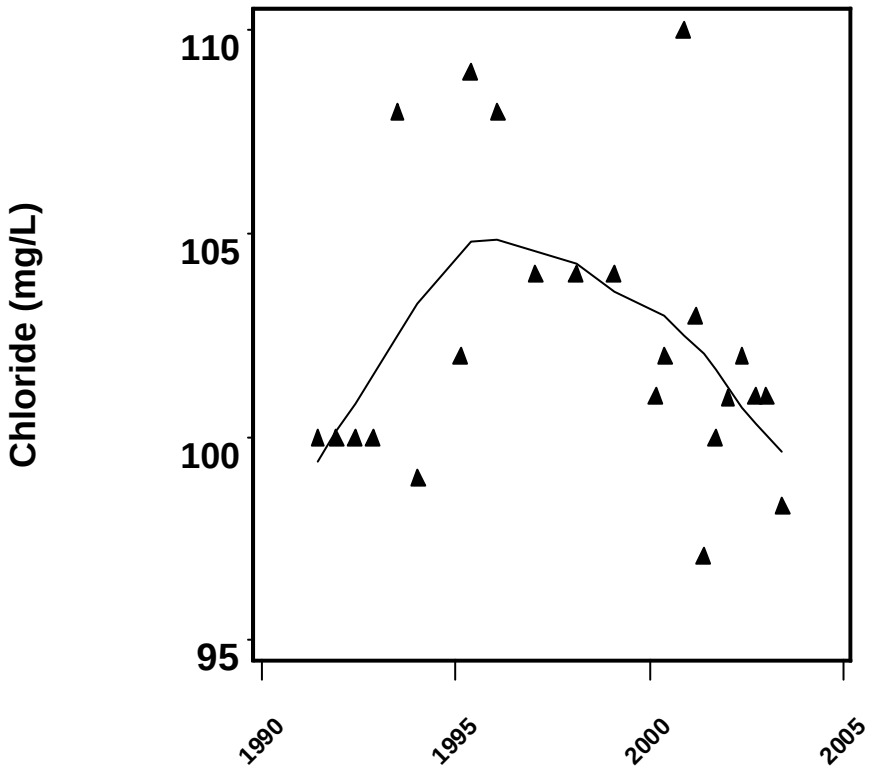


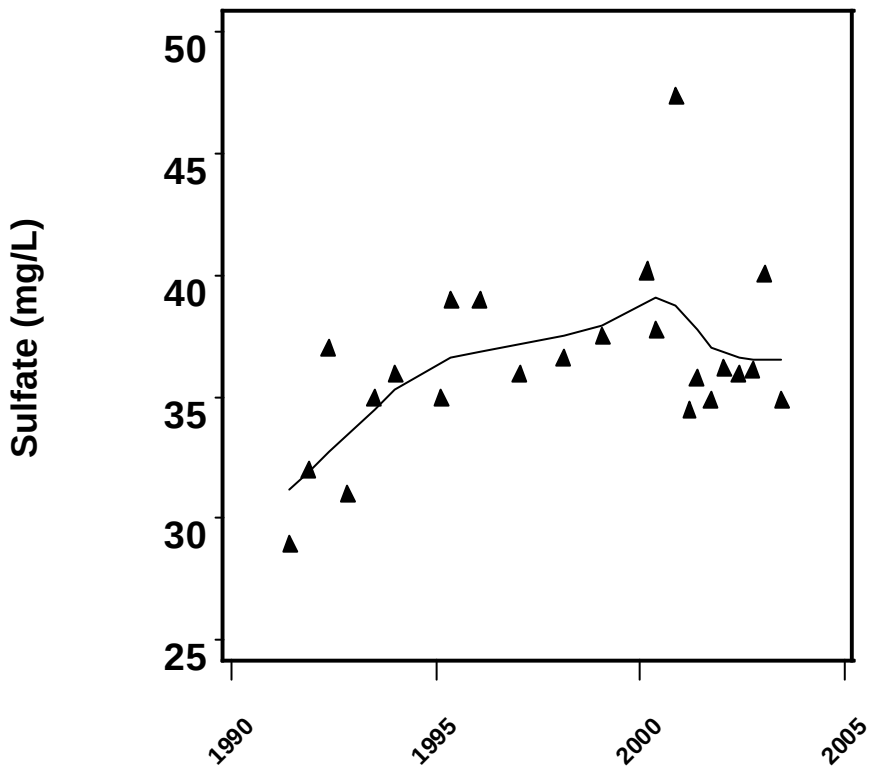
Appendix A-84. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-2 UPPER HAWTHORNE.



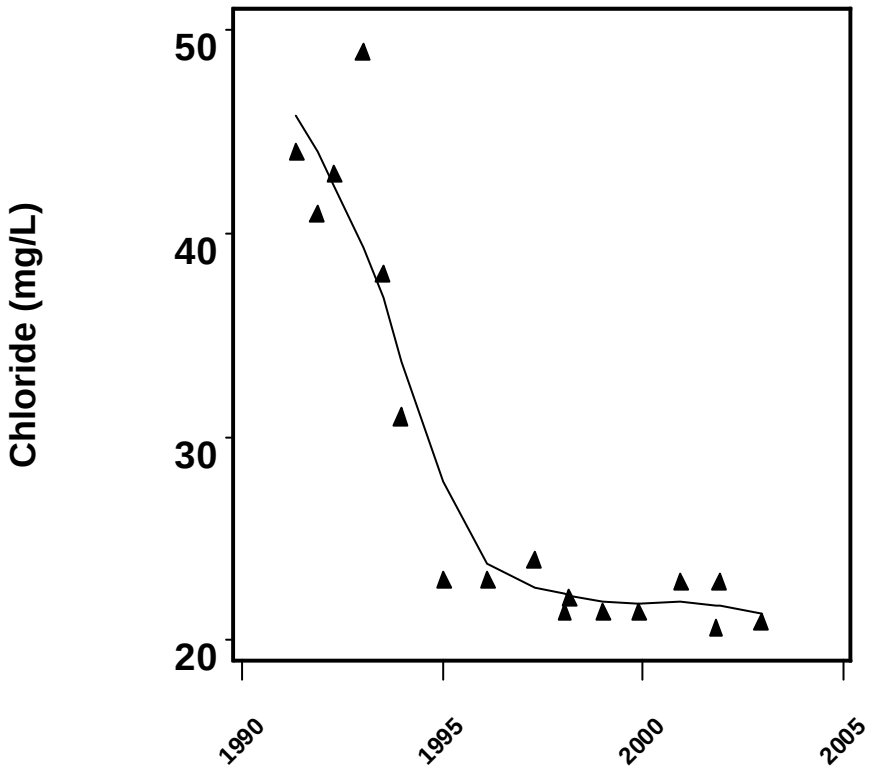


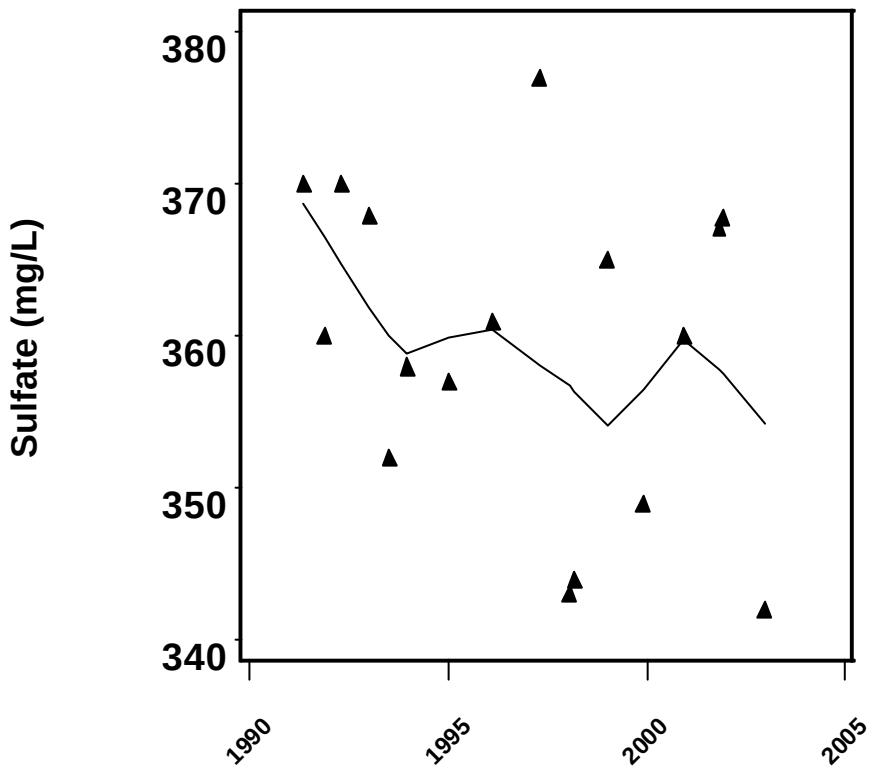
Appendix A-85. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-4 HAWTHORNE.



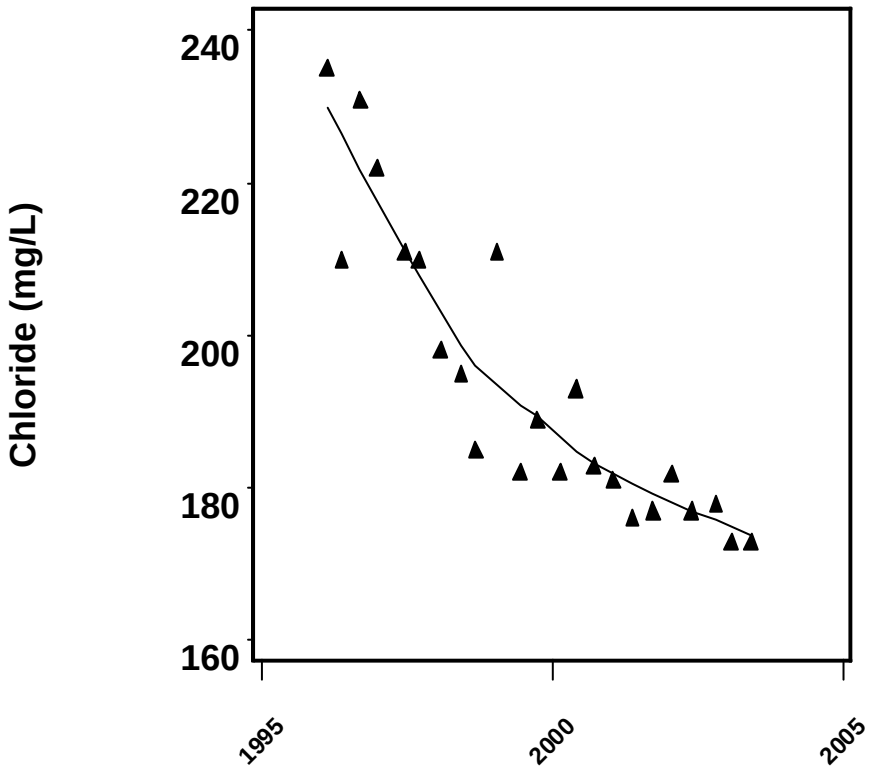


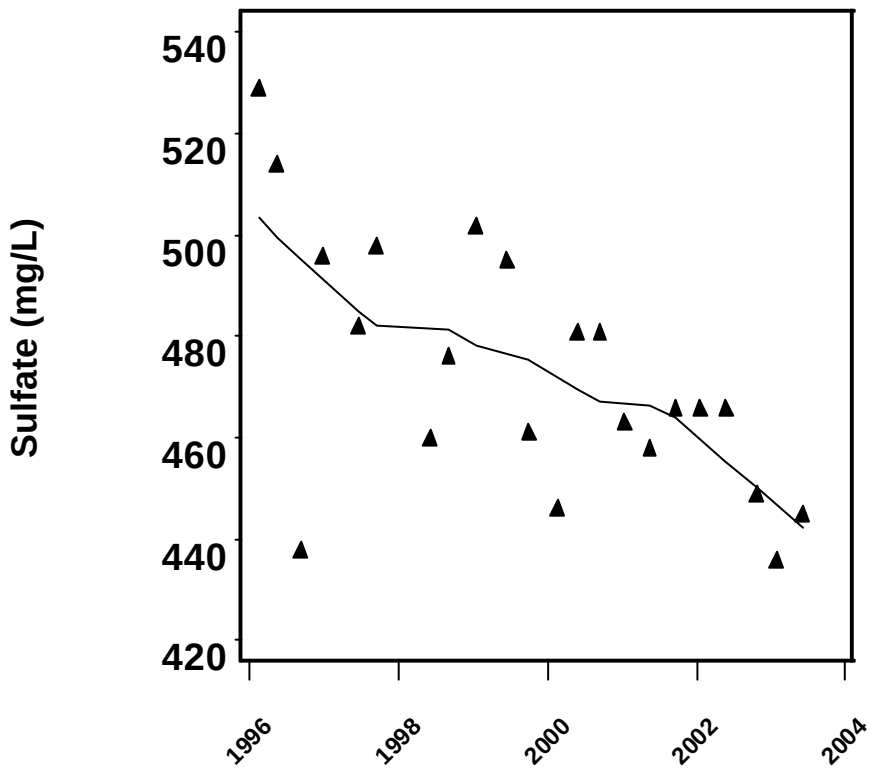
Appendix A-86. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 8-1 INTERMEDIATE.



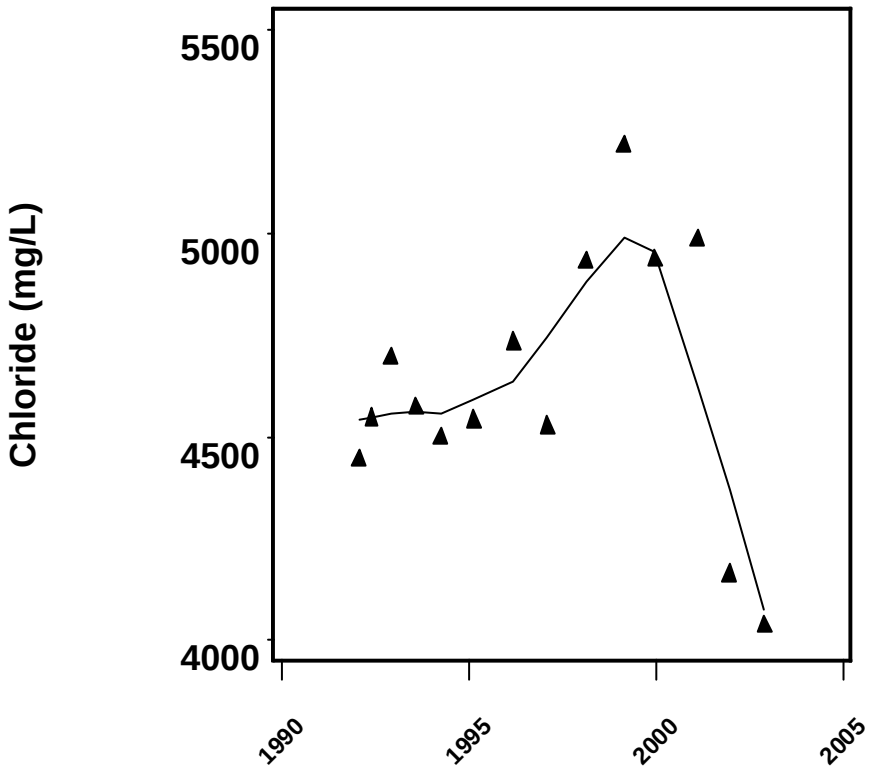


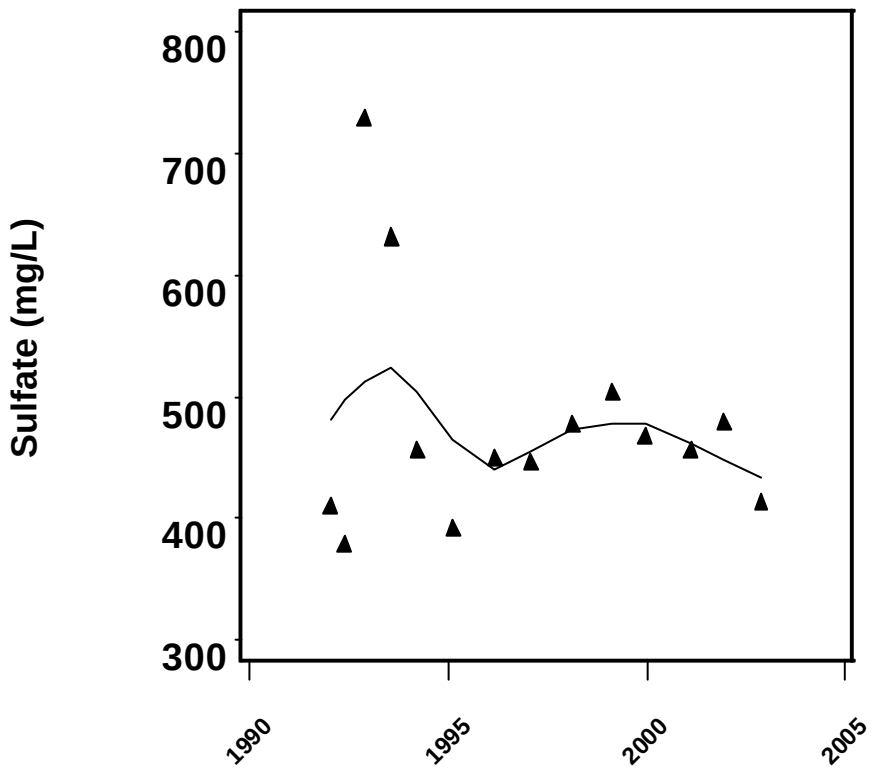
Appendix A-87. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-1.



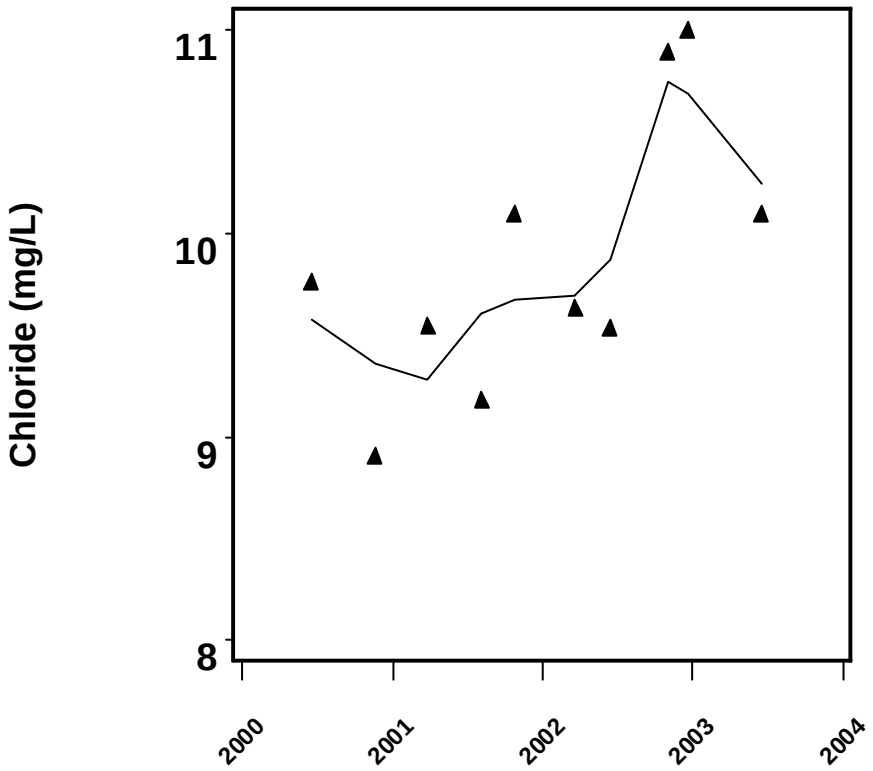


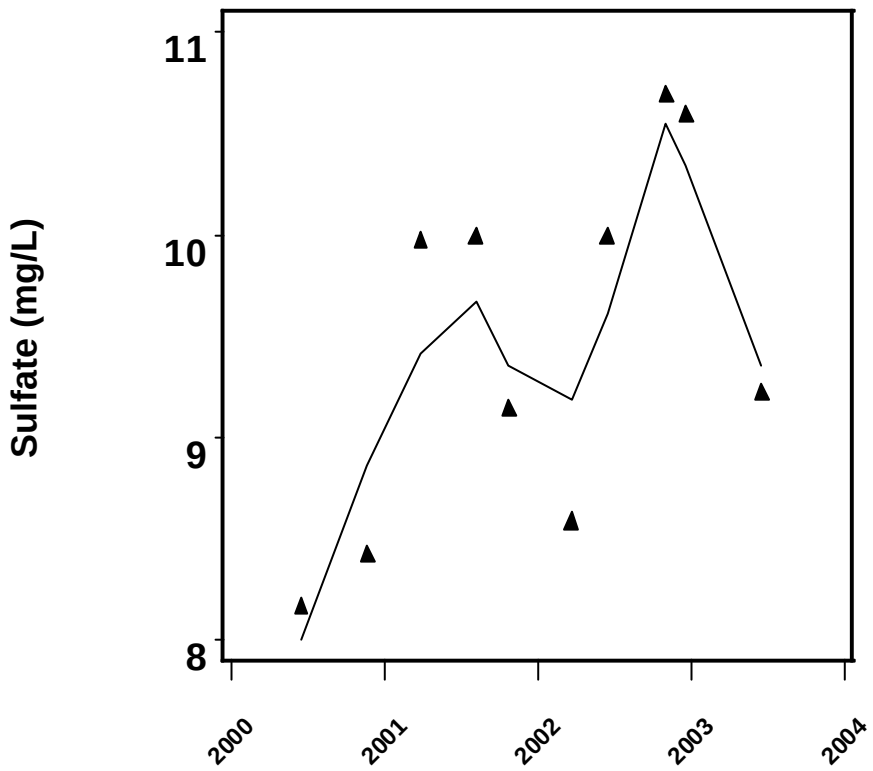
Appendix A-88. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR SA-1 INTERMEDIATE.



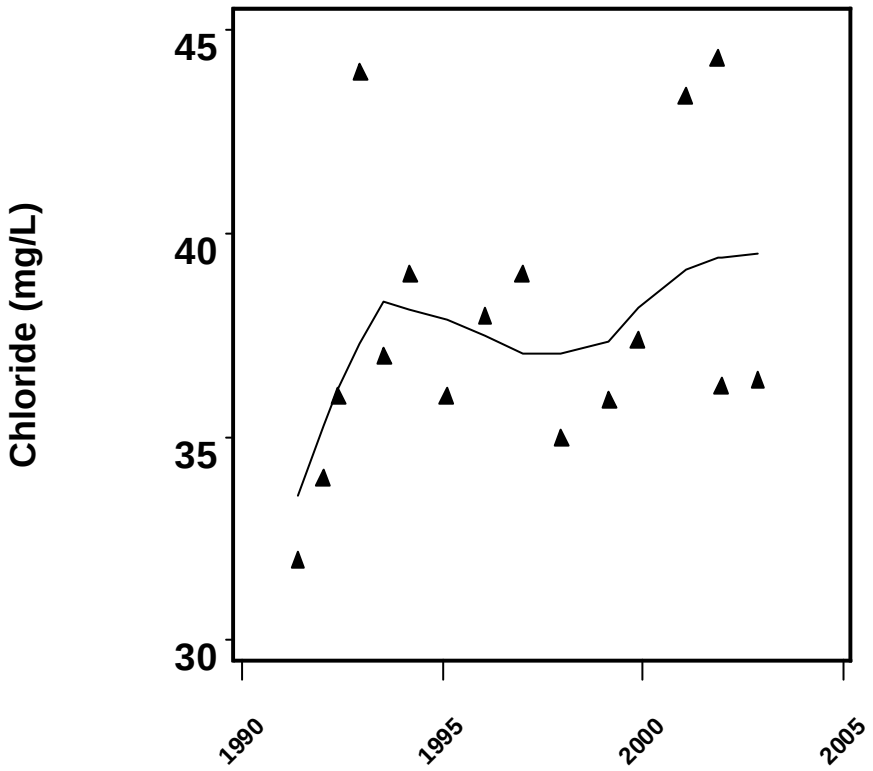


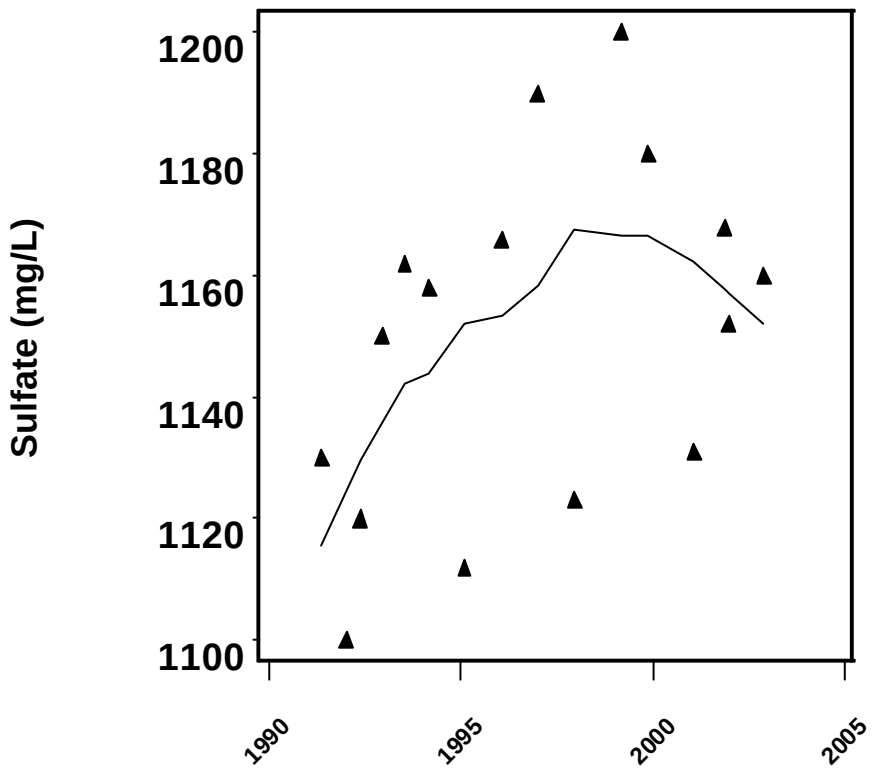
Appendix A-89. Water Quality Scatterplots Fitted with a LOWESS Curve for ROTUNDA WATER PLANT 18.



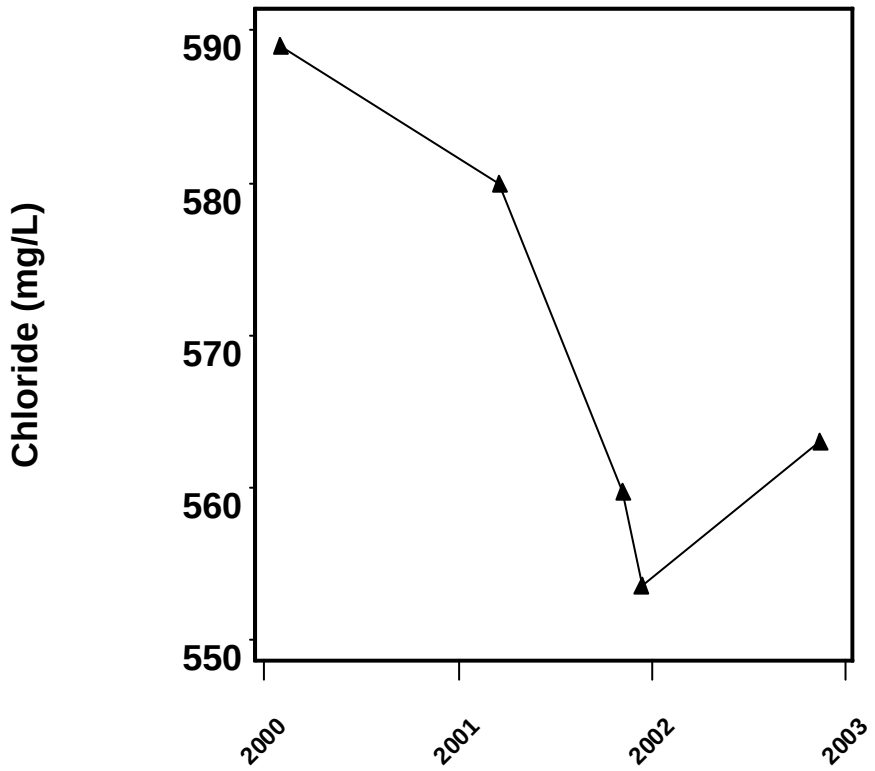


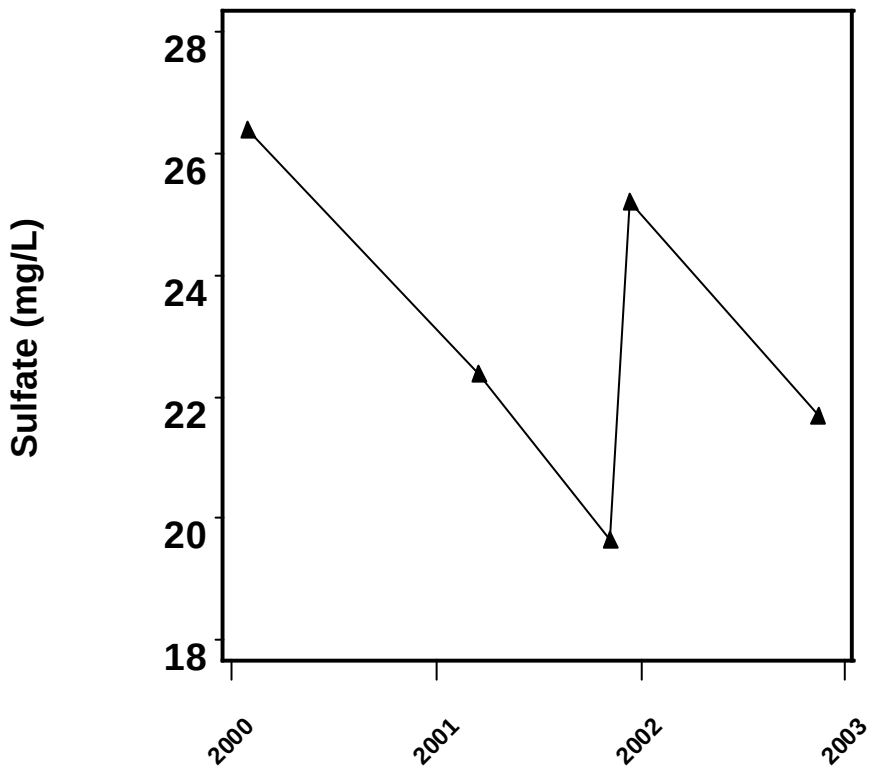
Appendix A-90. Water Quality Scatterplots Fitted with a LOWESS Curve for ROWELL DEEP.



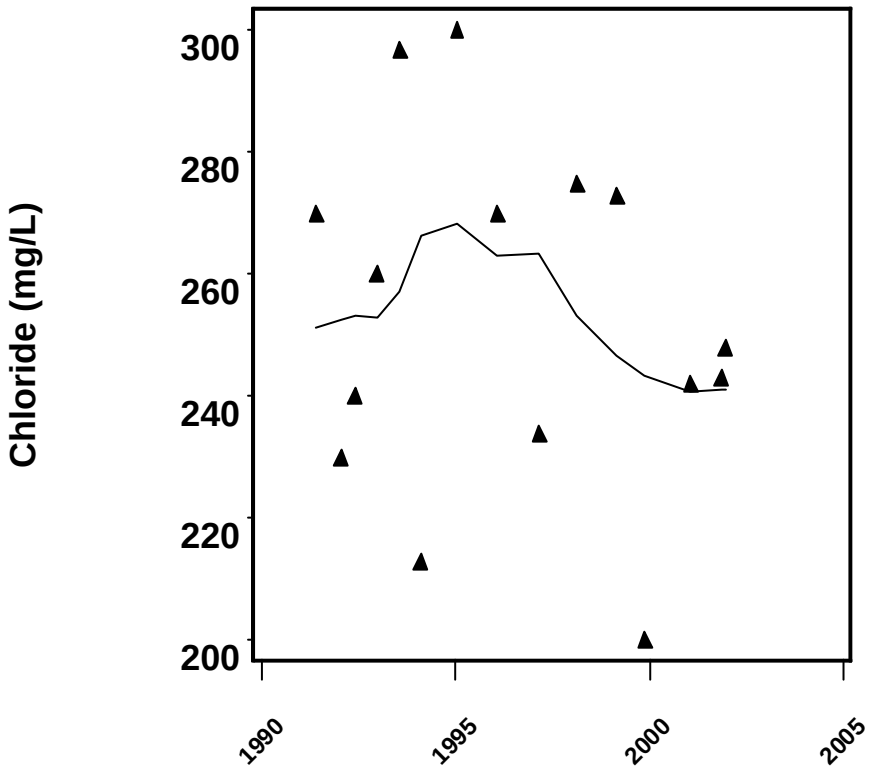


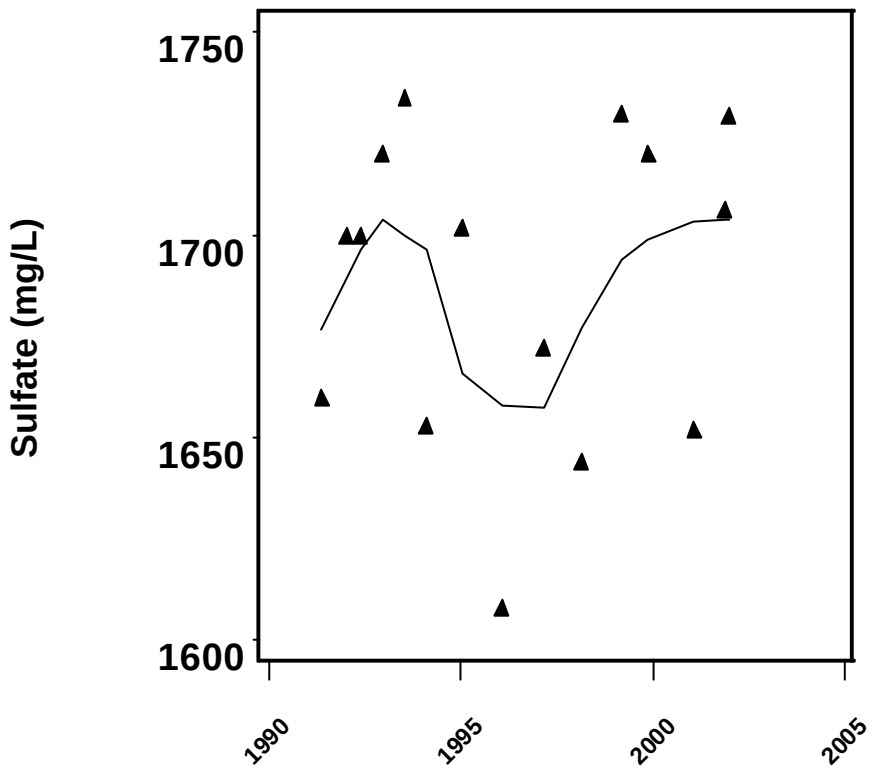
Appendix A-91. Water Quality Scatterplots Fitted with a LOWESS Curve for SARASOTA HISTORICAL SOC.



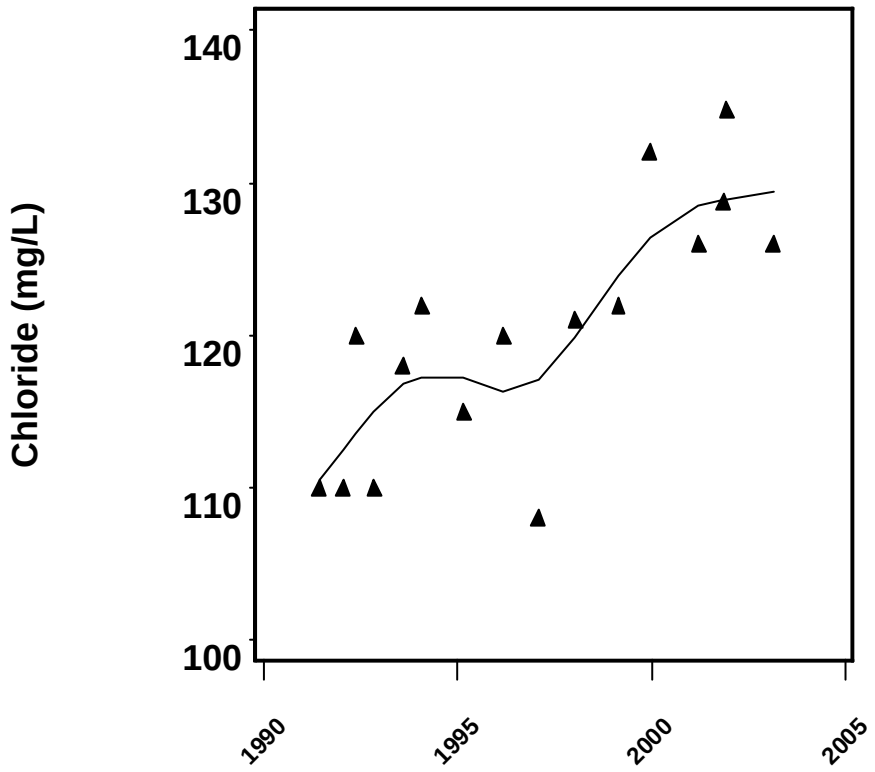


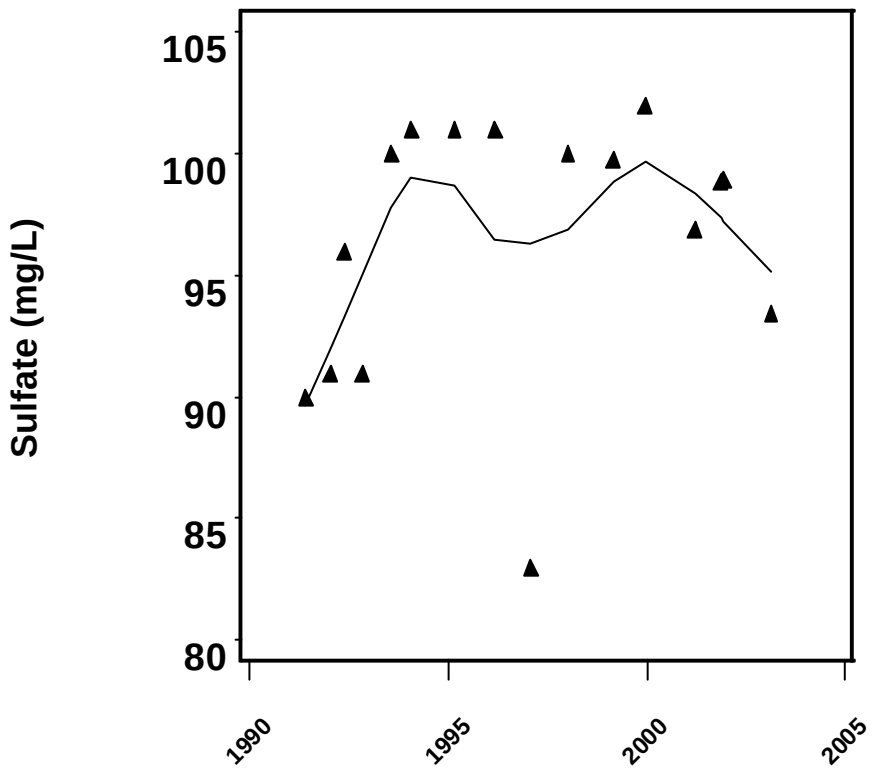
Appendix A-92. Water Quality Scatterplots Fitted with a LOWESS Curve for SHELL CREEK RV PARK INTERMEDIATE.



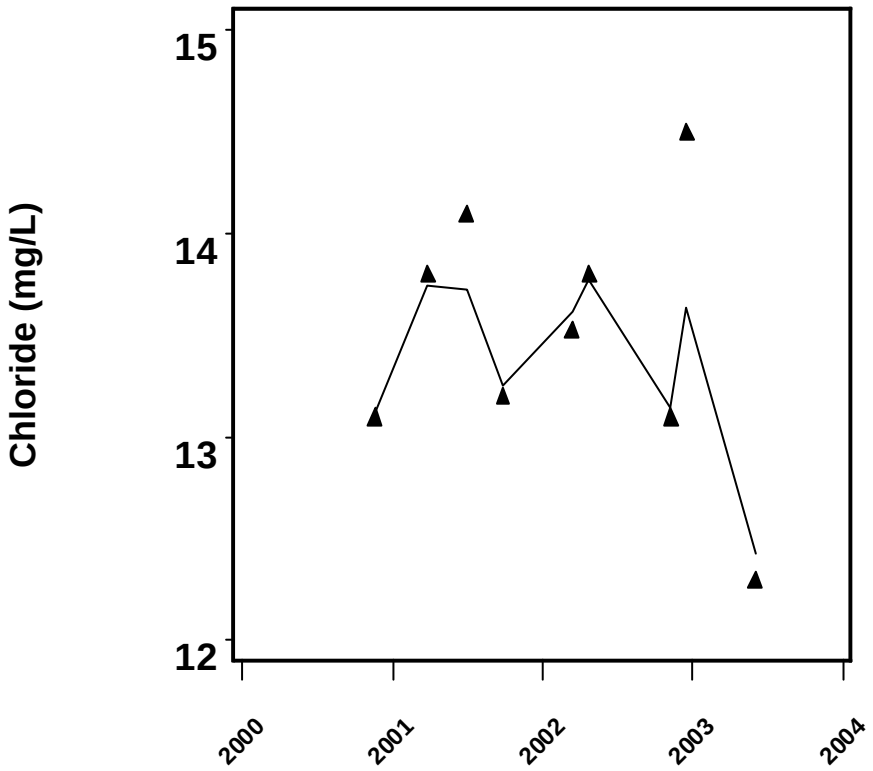


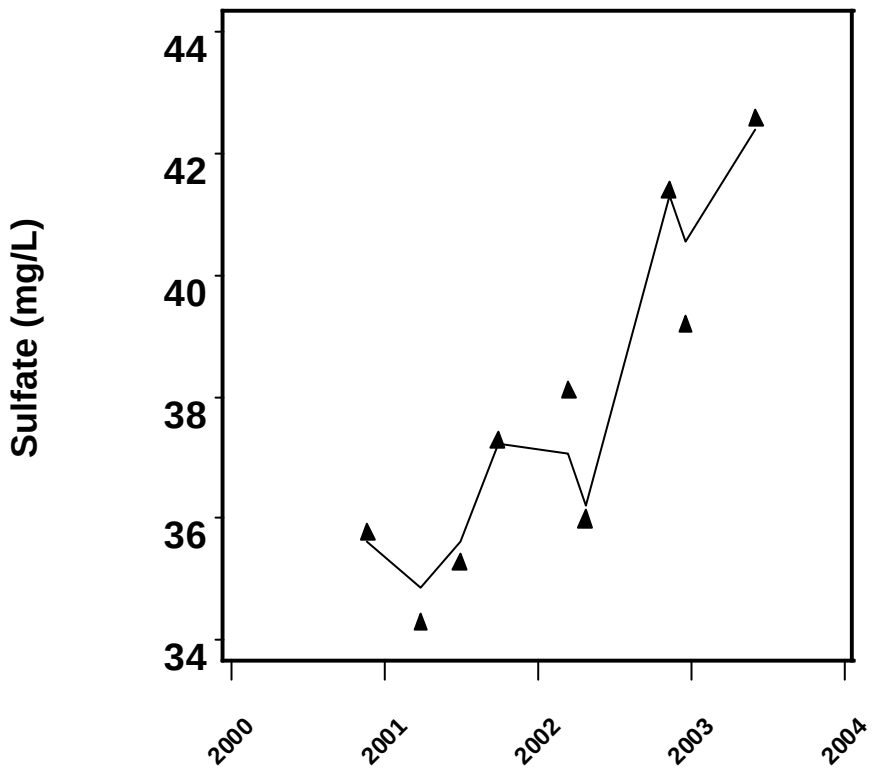
Appendix A-93. Water Quality Scatterplots Fitted with a LOWESS Curve for SOUTHBAY UTILITIES DEEP.



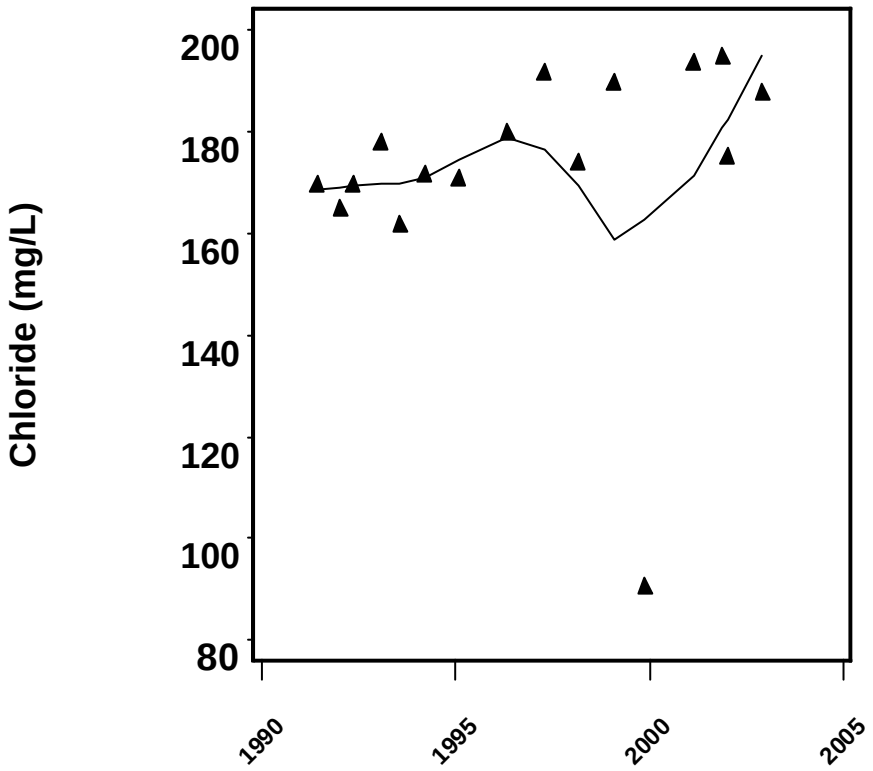


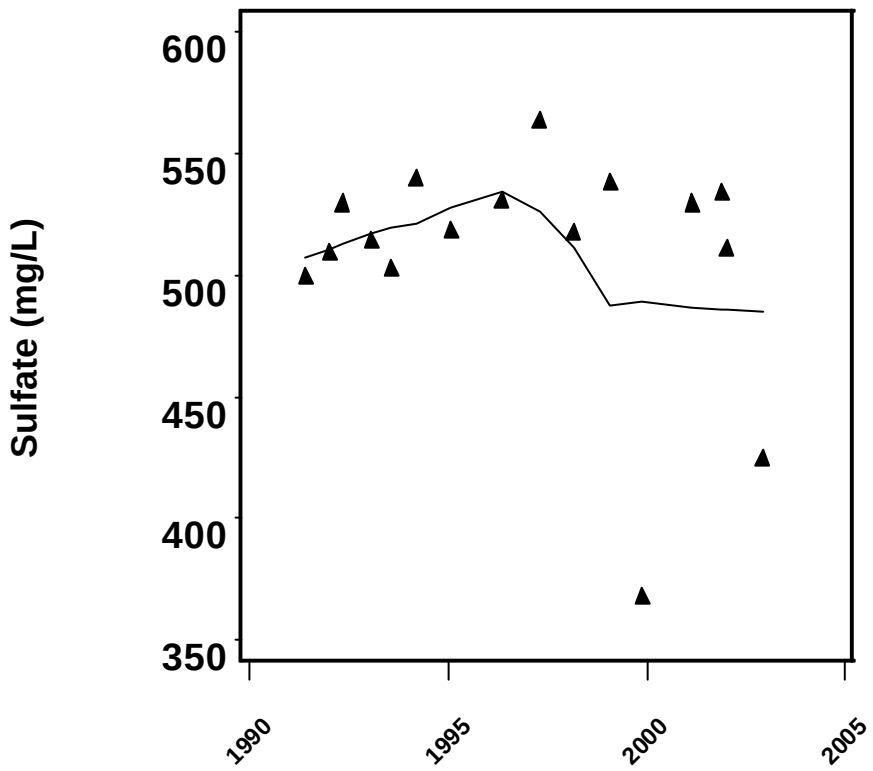
Appendix A-94. Water Quality Scatterplots Fitted with a LOWESS Curve for SR 74 DEEP WELL.



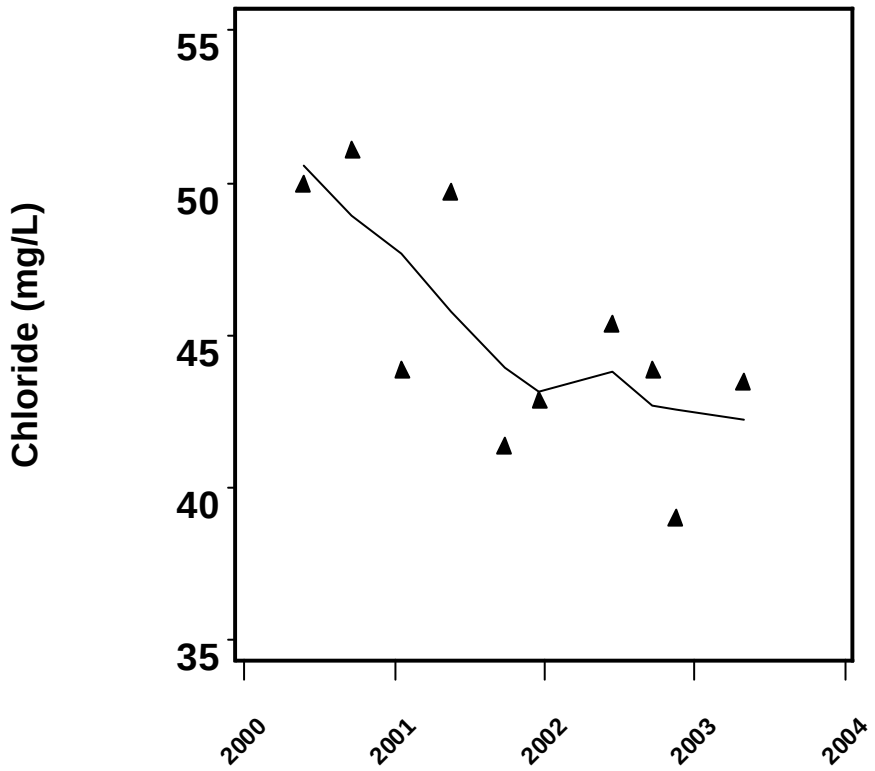


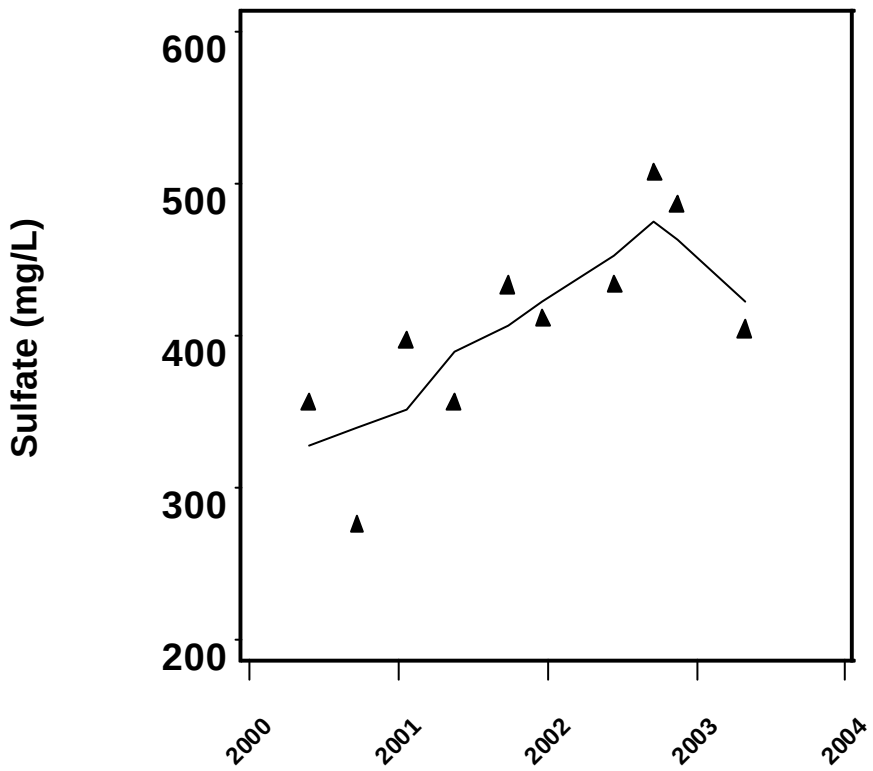
Appendix A-95. Water Quality Scatterplots Fitted with a LOWESS Curve for STATE OF FLORIDA PAYNES CR.



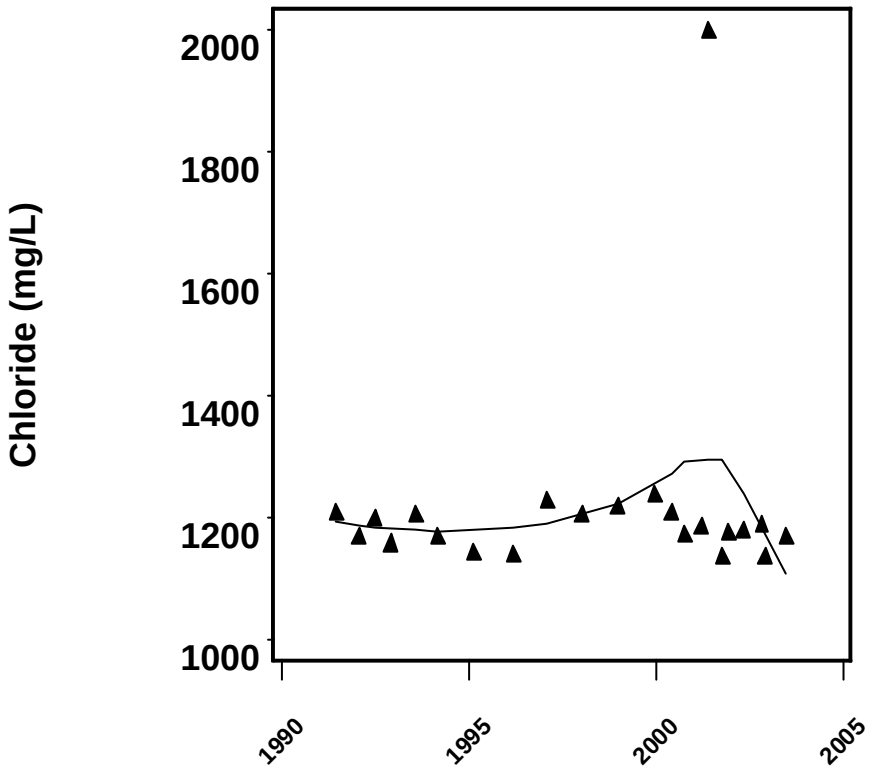


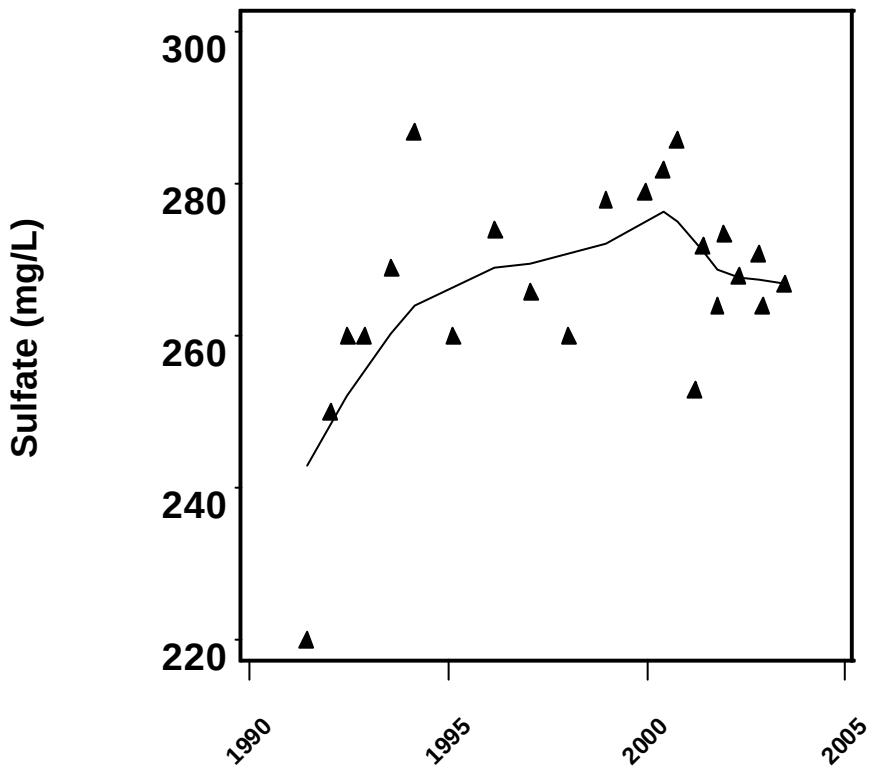
Appendix A-96. Water Quality Scatterplots Fitted with a LOWESS Curve for TEST 18 BLACKBURN WELL.



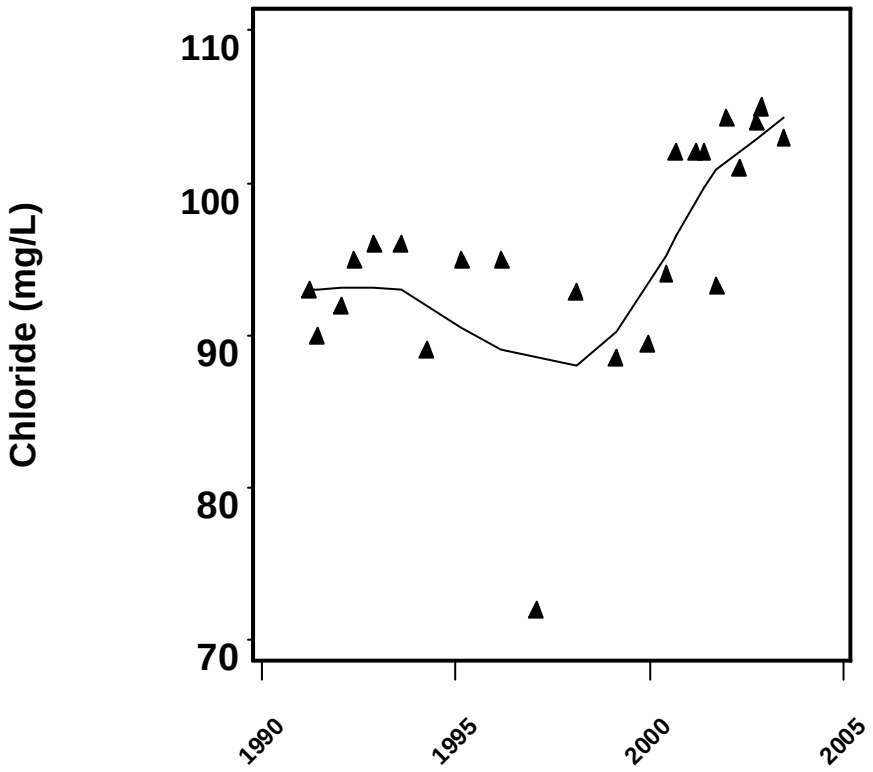


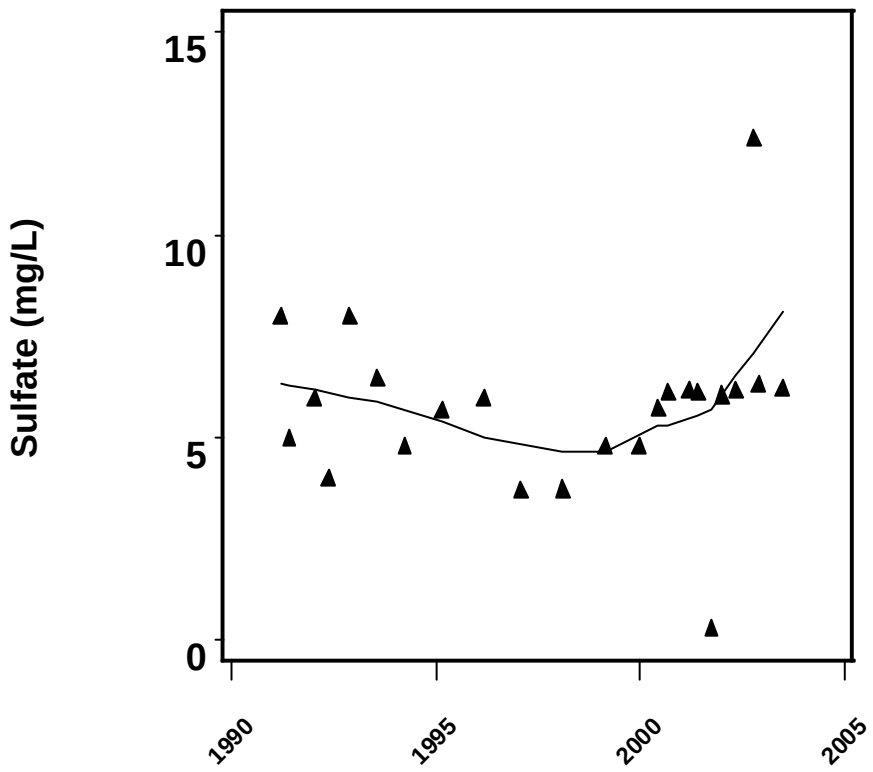
Appendix A-97. Water Quality Scatterplots Fitted with a LOWESS Curve for THOMAS DARNELL.



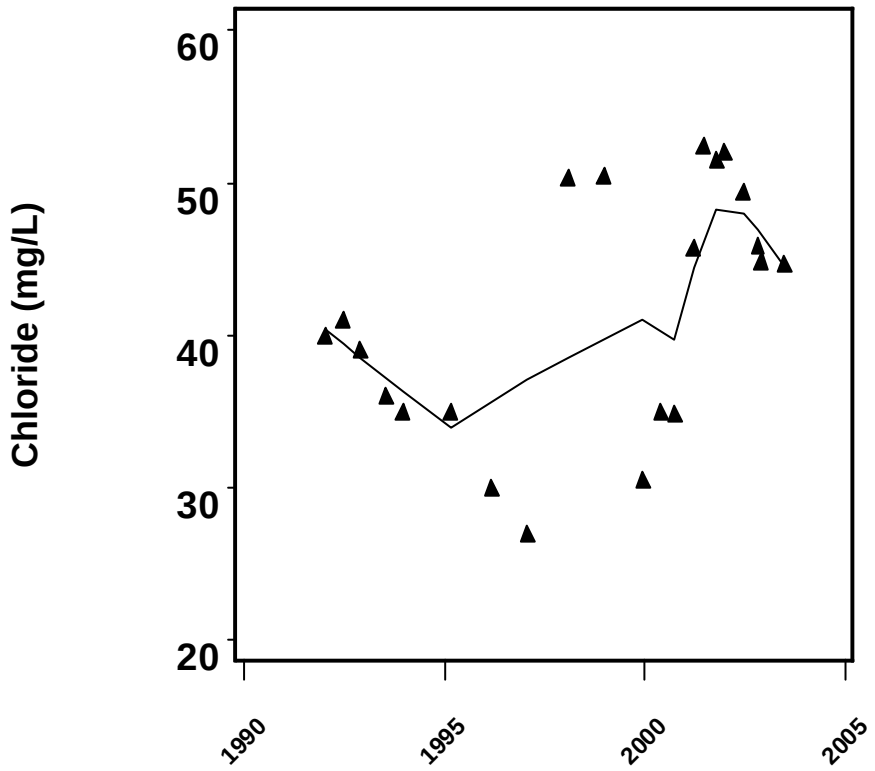


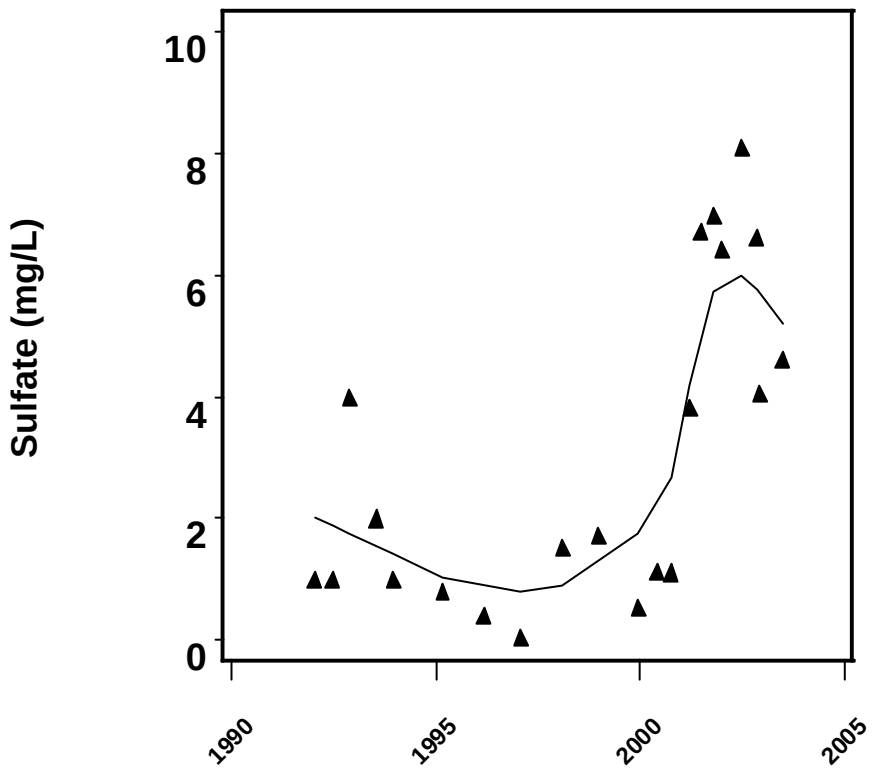
Appendix A-98. Water Quality Scatterplots Fitted with a LOWESS Curve for USGS C-1.



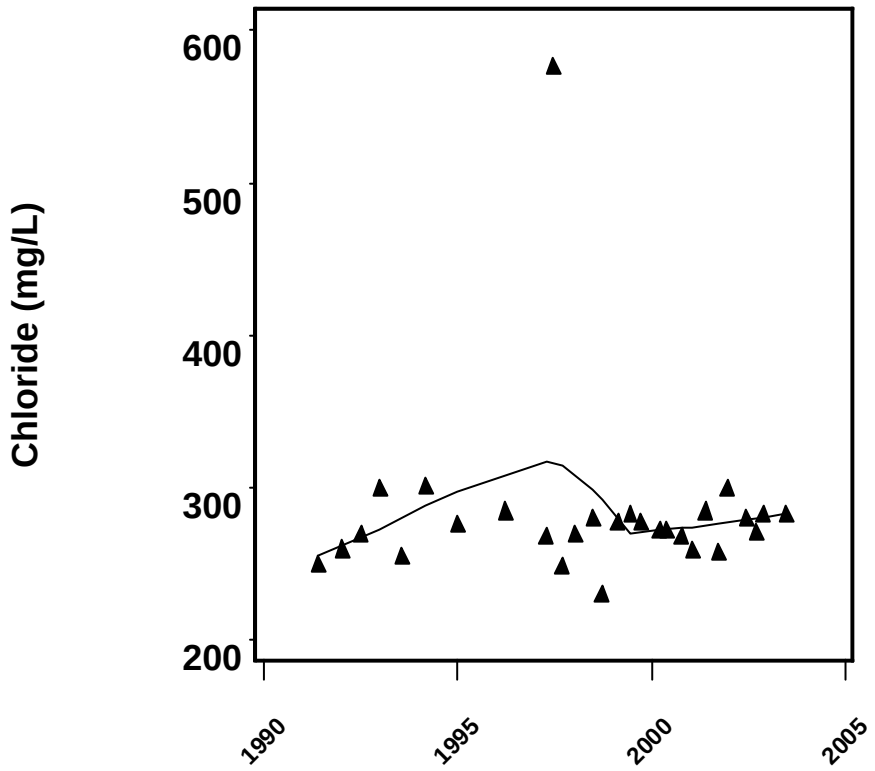


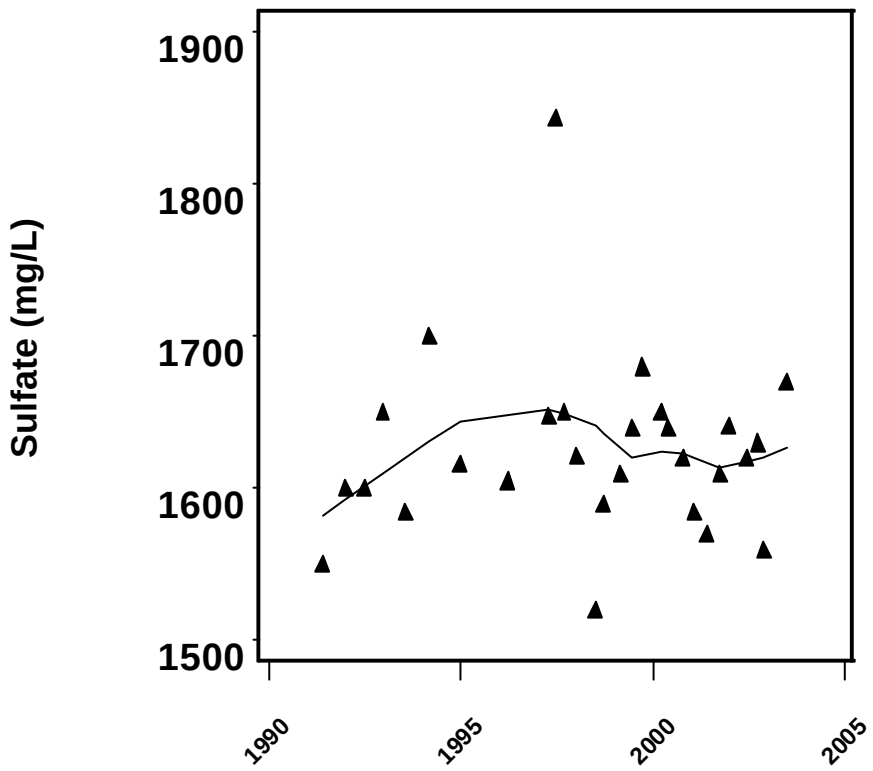
Appendix A-99. Water Quality Scatterplots Fitted with a LOWESS Curve for USGS C-3.



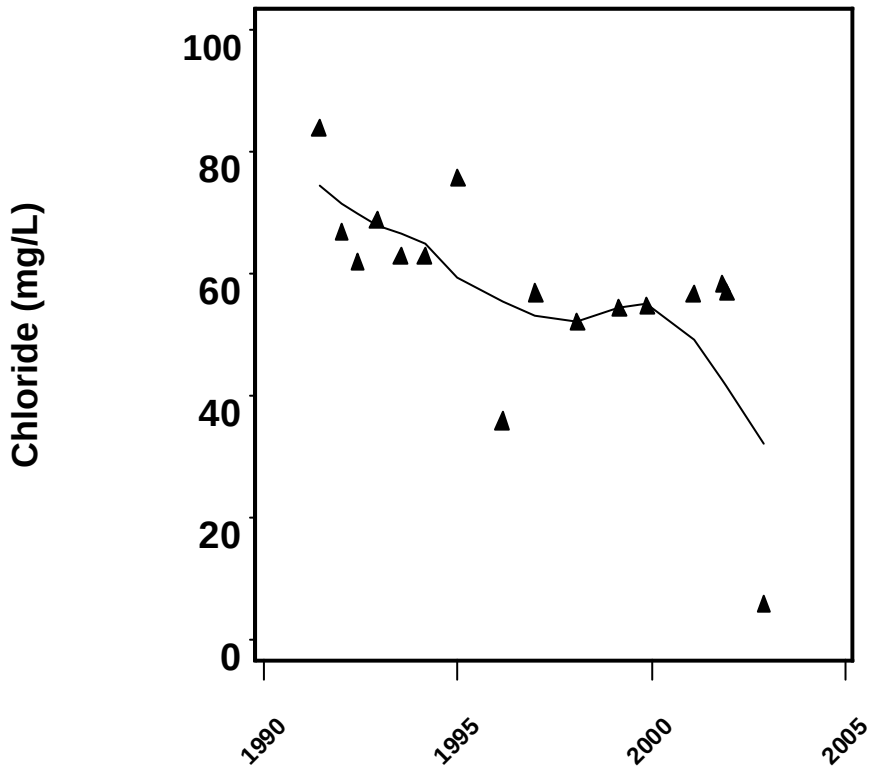


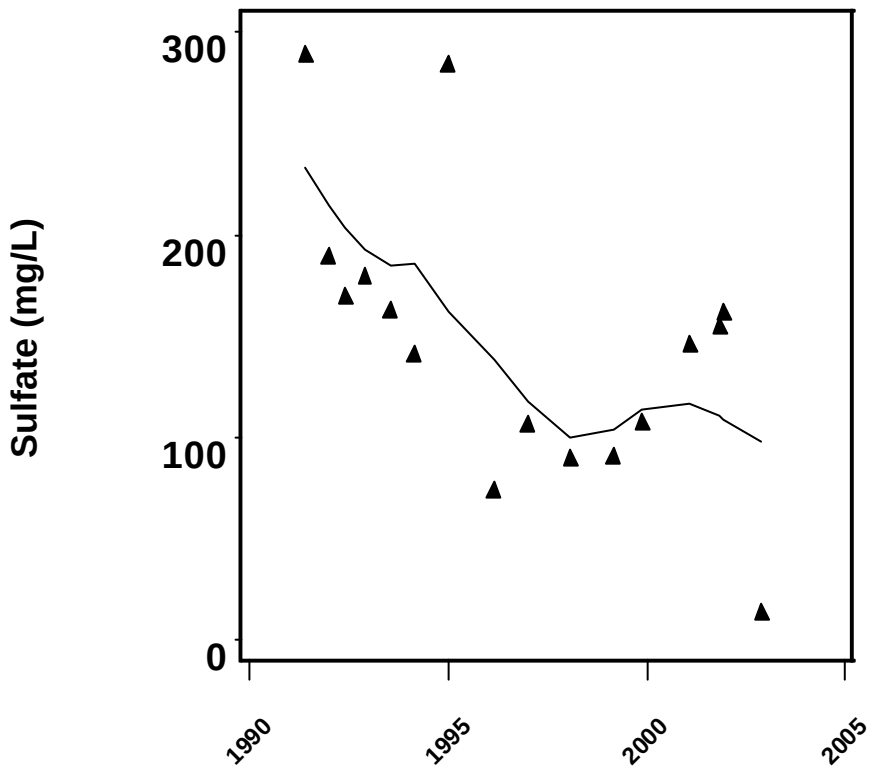
Appendix A-100. Water Quality Scatterplots Fitted with a LOWESS Curve for USGS TUCKERS CORNER.



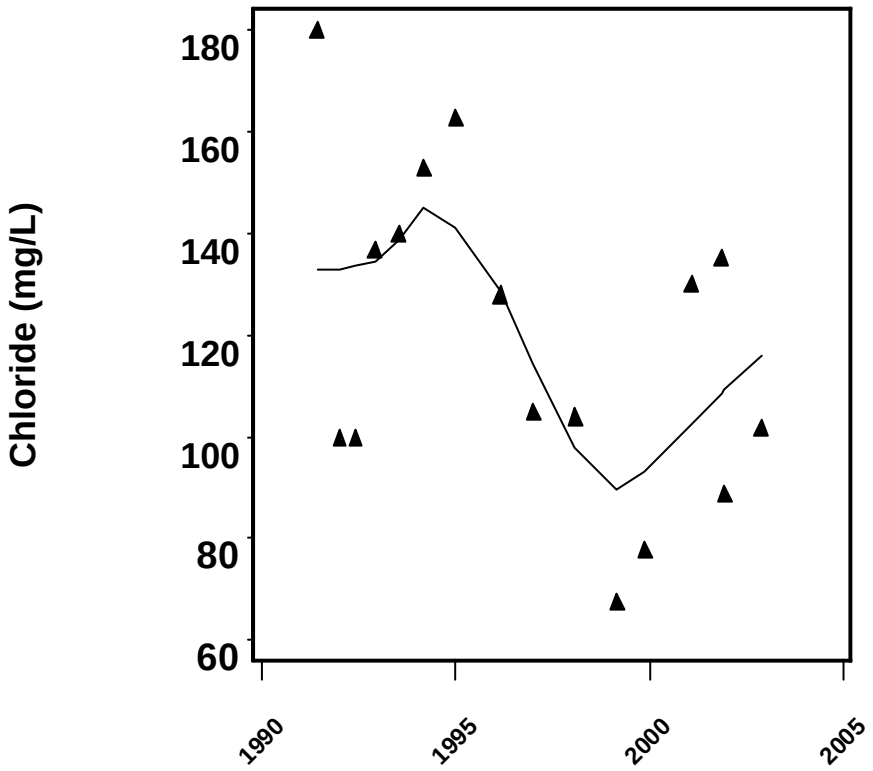


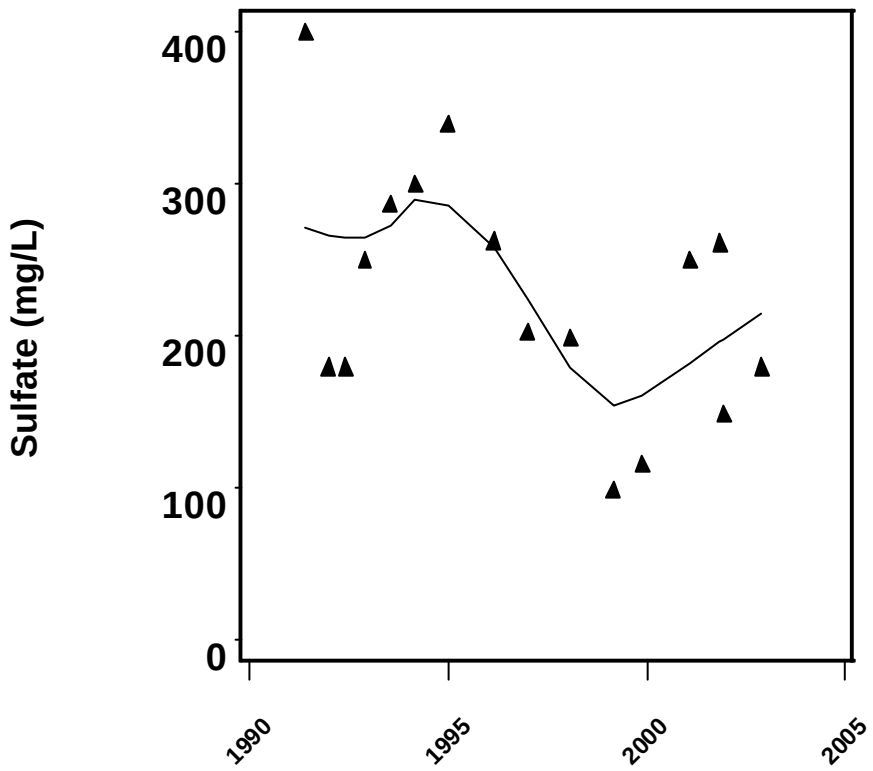
Appendix A-101. Water Quality Scatterplots Fitted with a LOWESS Curve for VENICE #35.



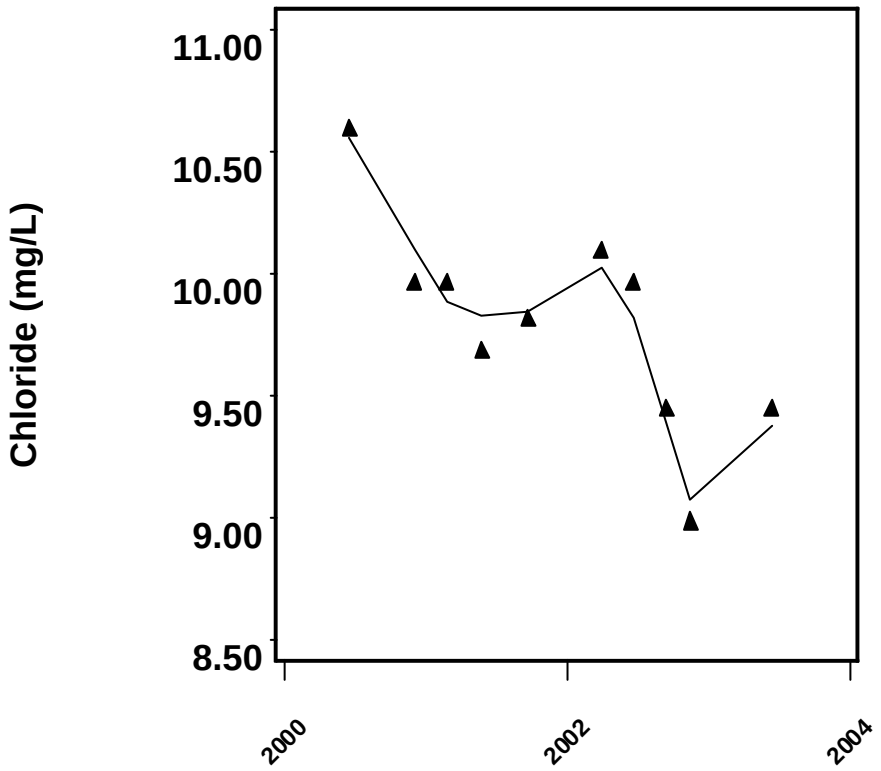


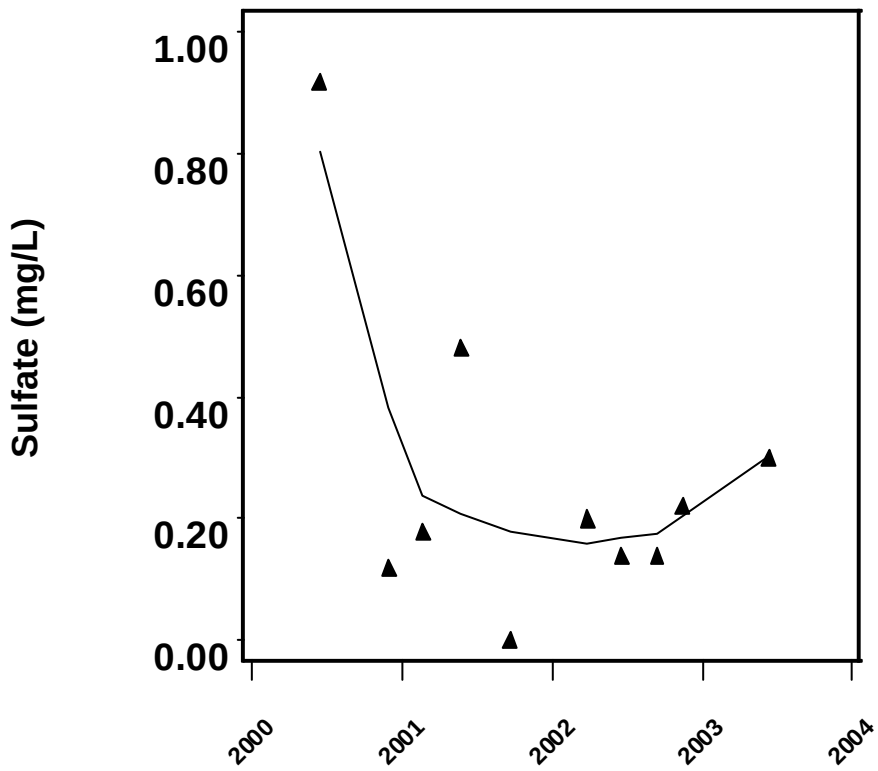
Appendix A-102. Water Quality Scatterplots Fitted with a LOWESS Curve for VENICE SH WF 59.



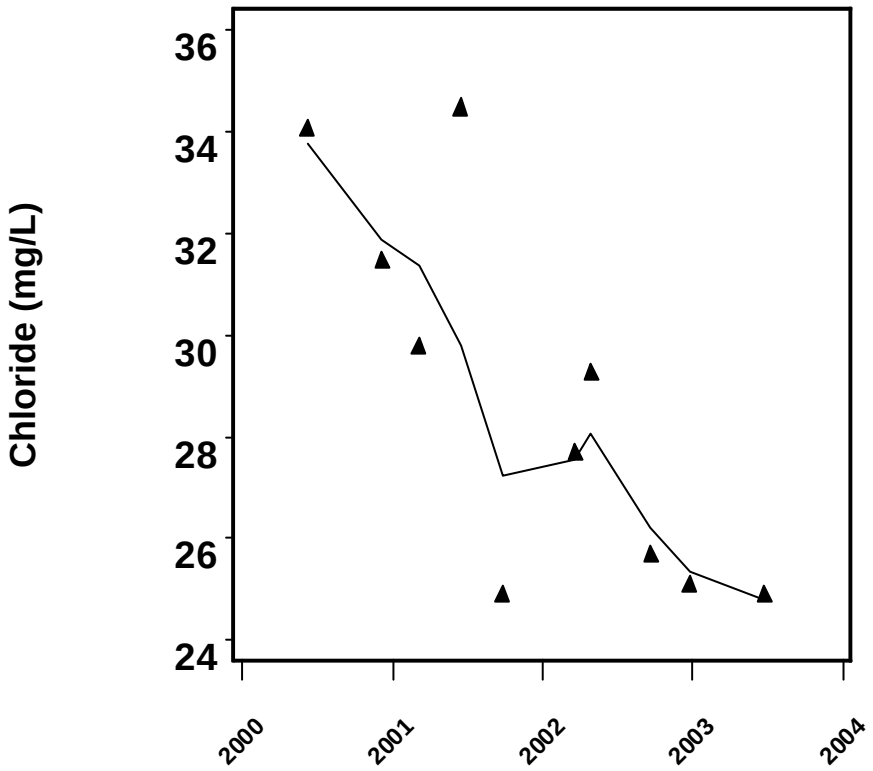


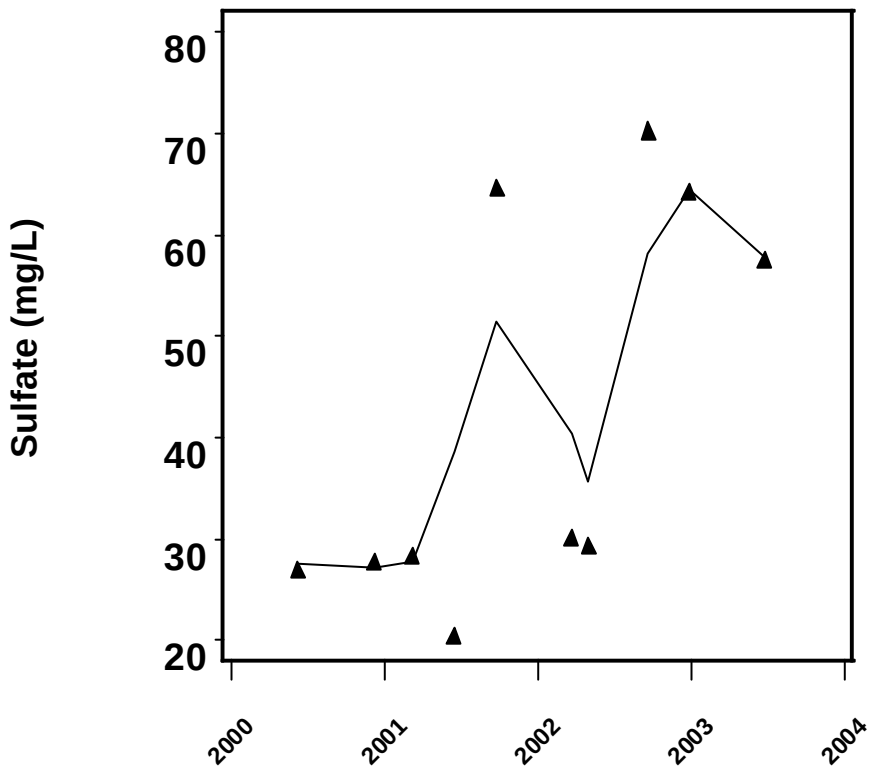
Appendix A-103. Water Quality Scatterplots Fitted with a LOWESS Curve for VENICE SH WF 68.



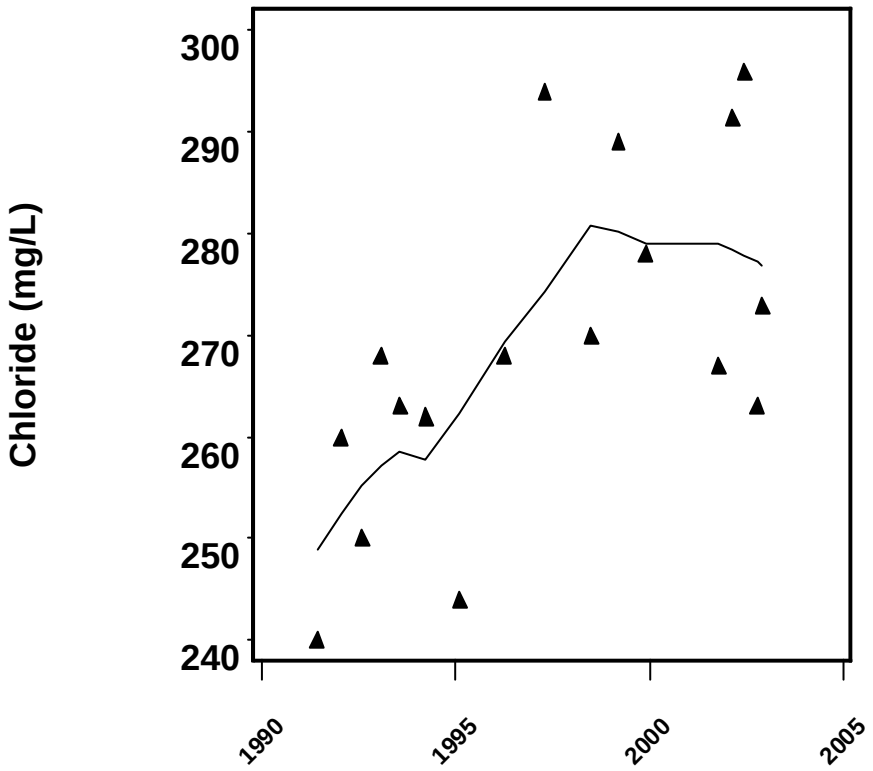


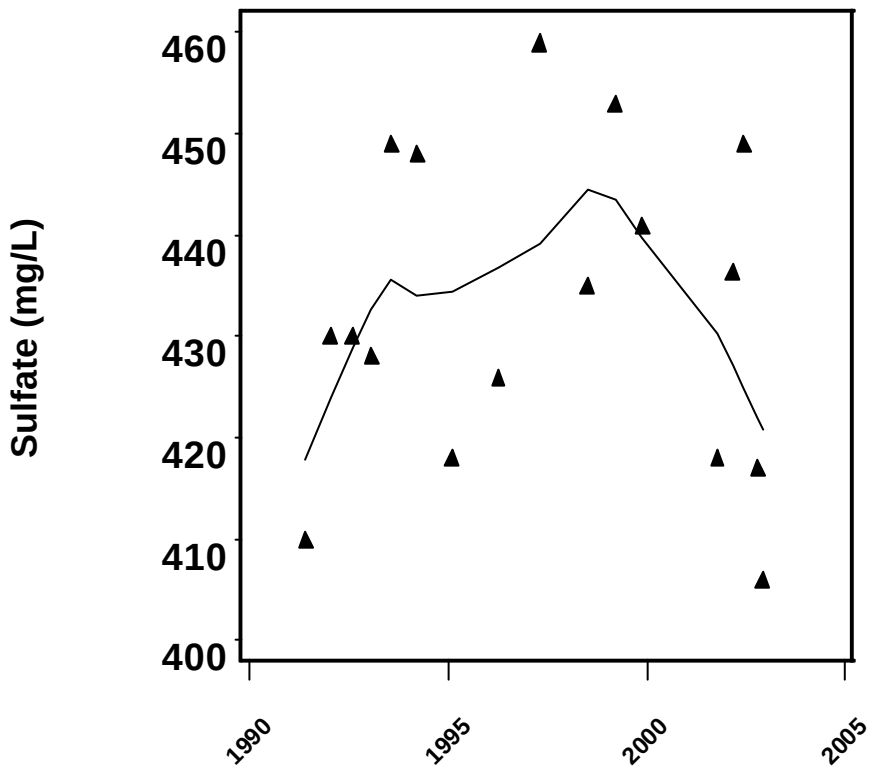
Appendix A-104. Water Quality Scatterplots Fitted with a LOWESS Curve for VERNA T WELL O-1.



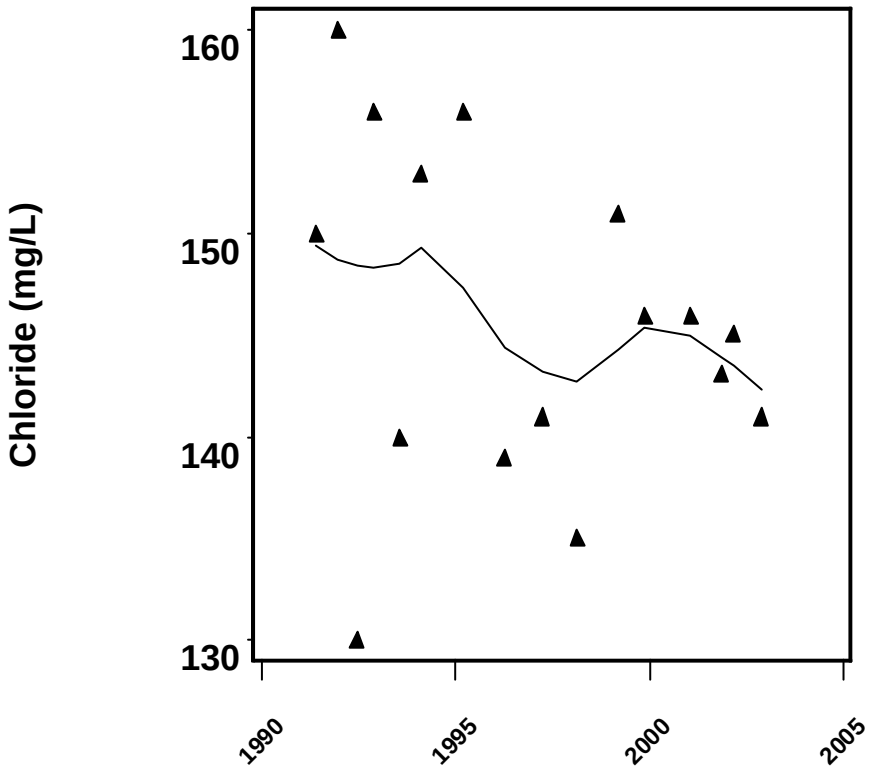


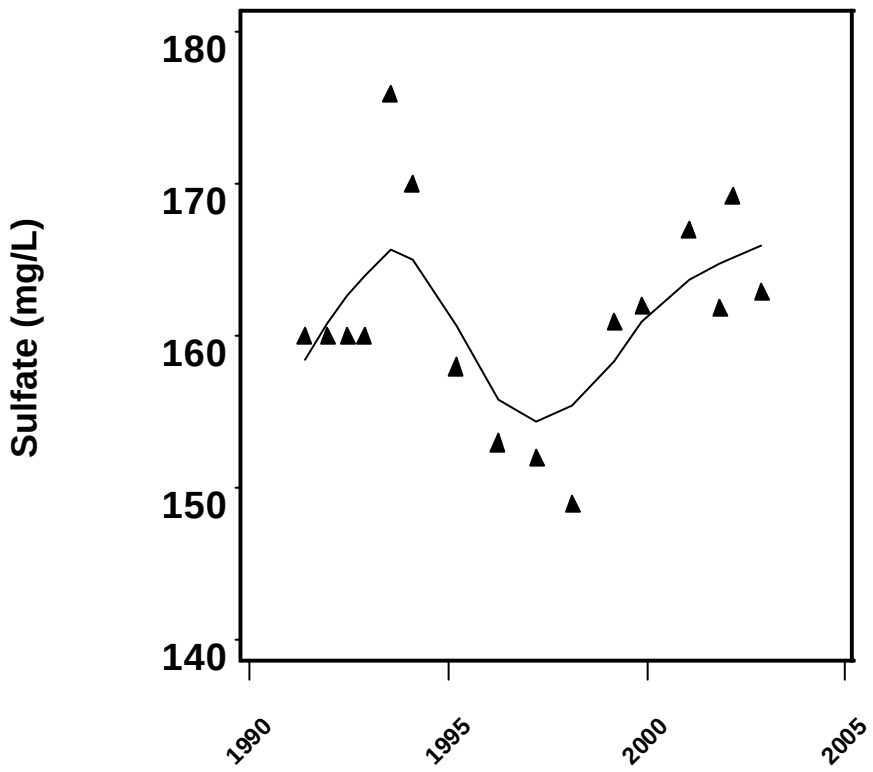
Appendix A-105. Water Quality Scatterplots Fitted with a LOWESS Curve for VERNA T WELL O-4.



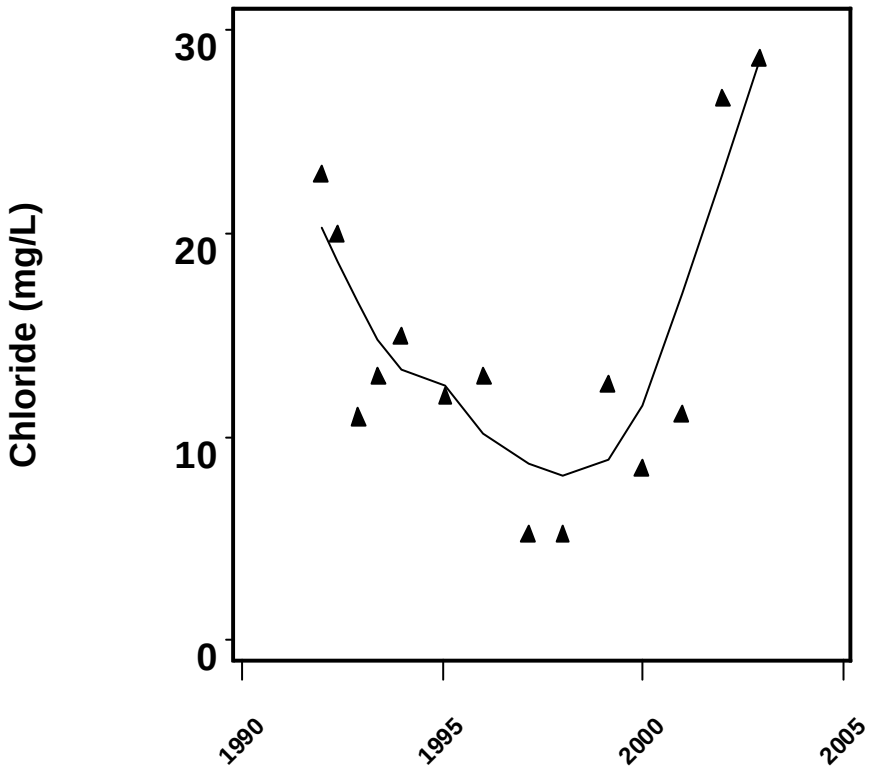


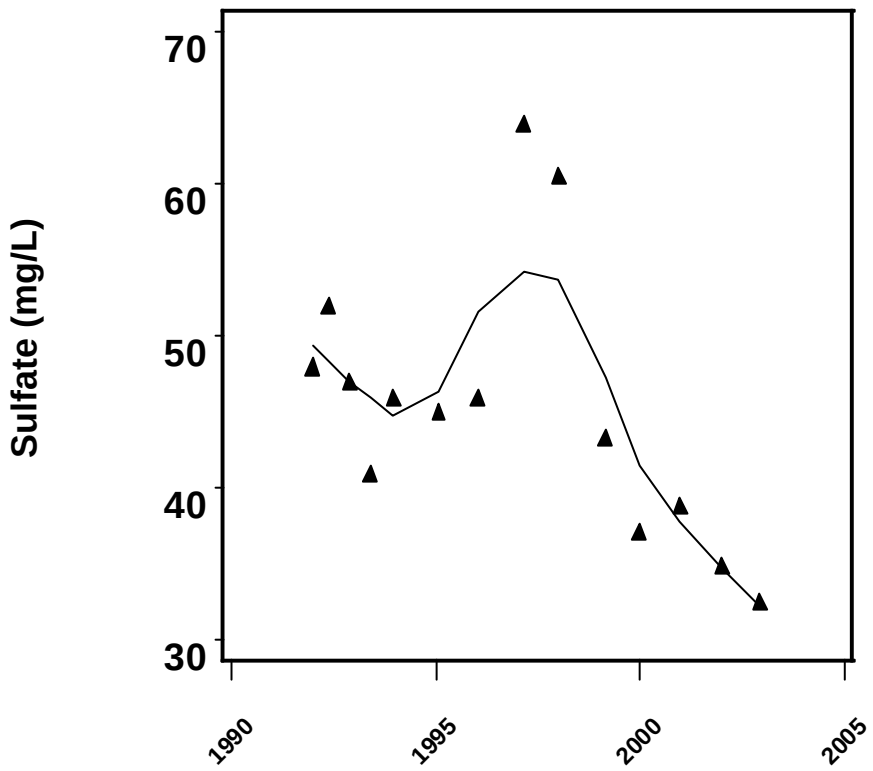
Appendix A-106. Water Quality Scatterplots Fitted with a LOWESS Curve for VO #3.



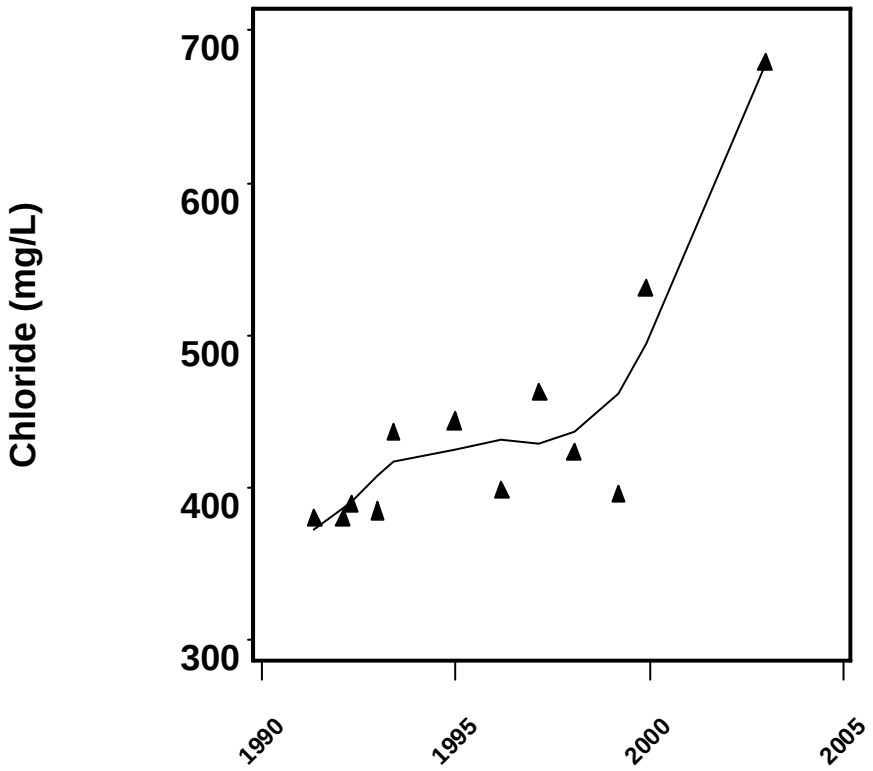


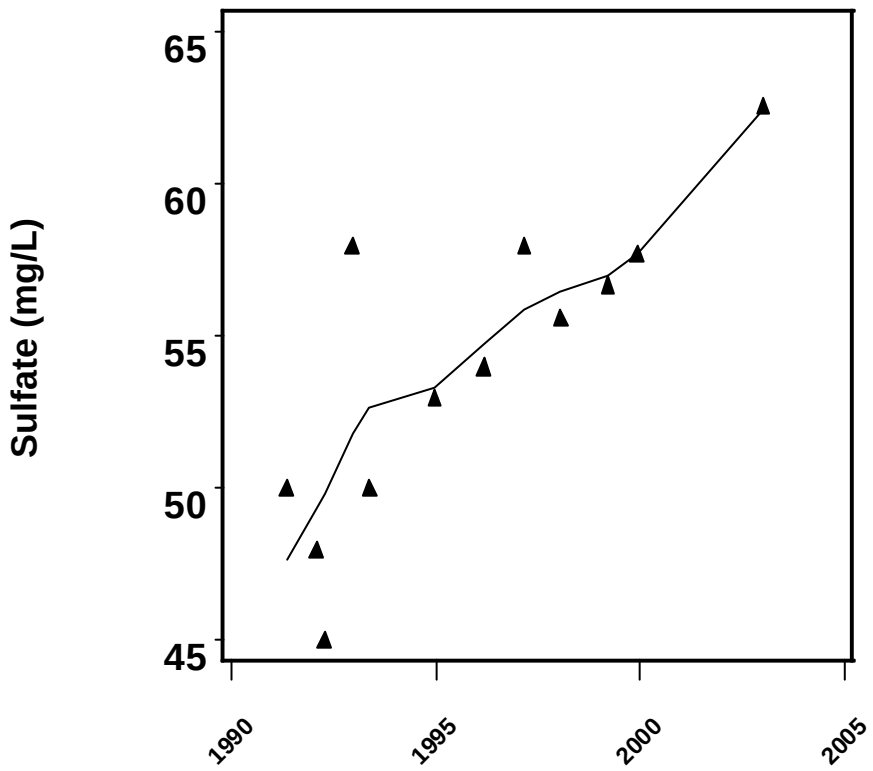
Appendix A-107. Water Quality Scatterplots Fitted with a LOWESS Curve for WHITAKER BAYOU WELL.



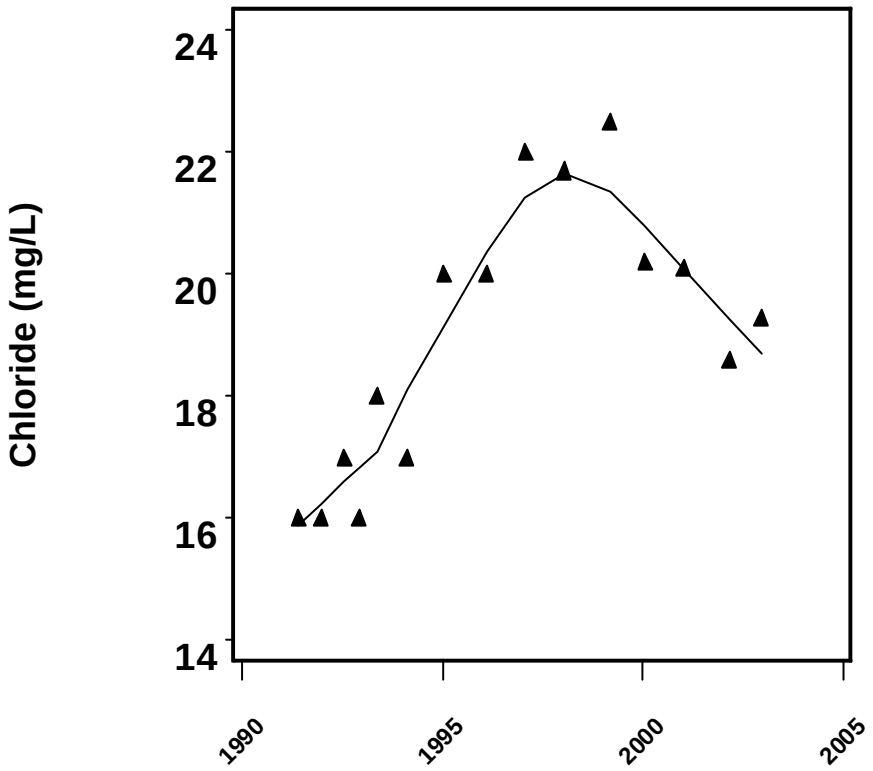


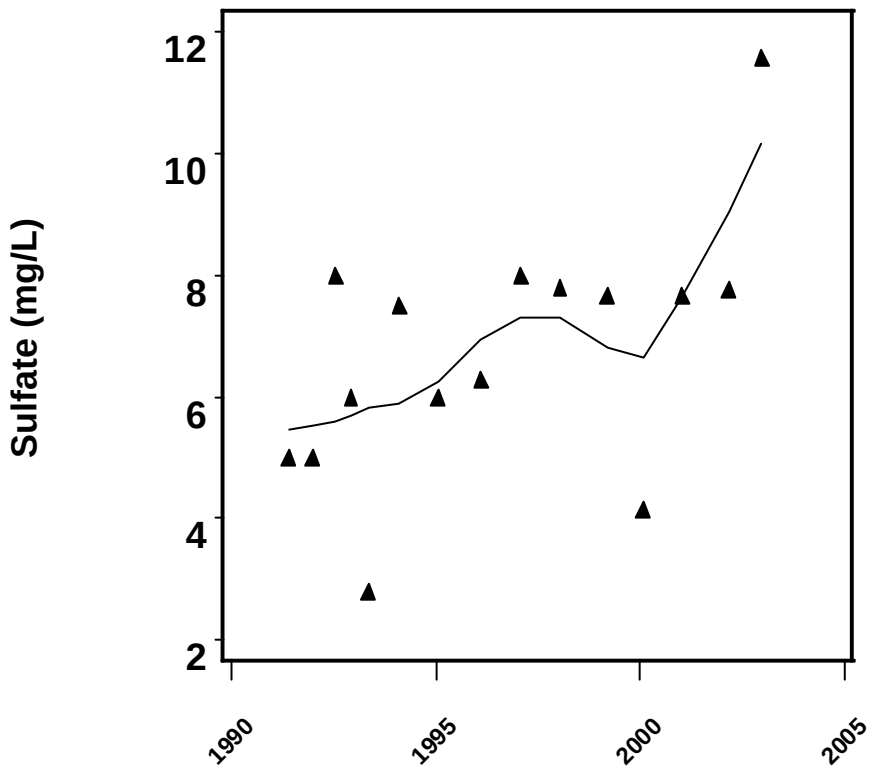
Appendix B-1. Water Quality Scatterplots Fitted with a LOWESS Curve for ANCLOTE ELEMENTARY.



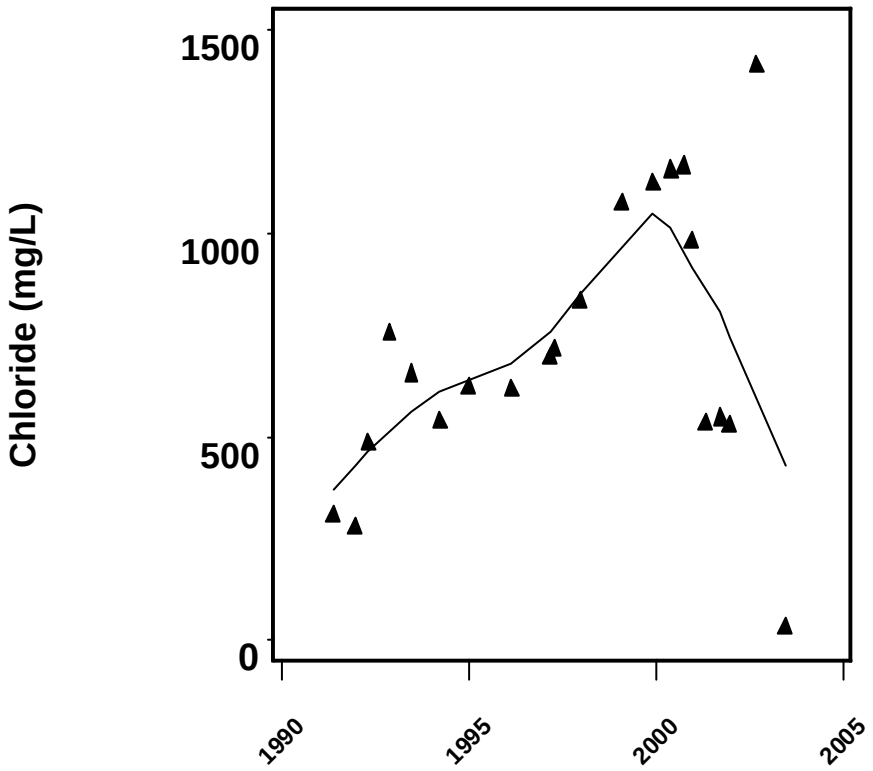


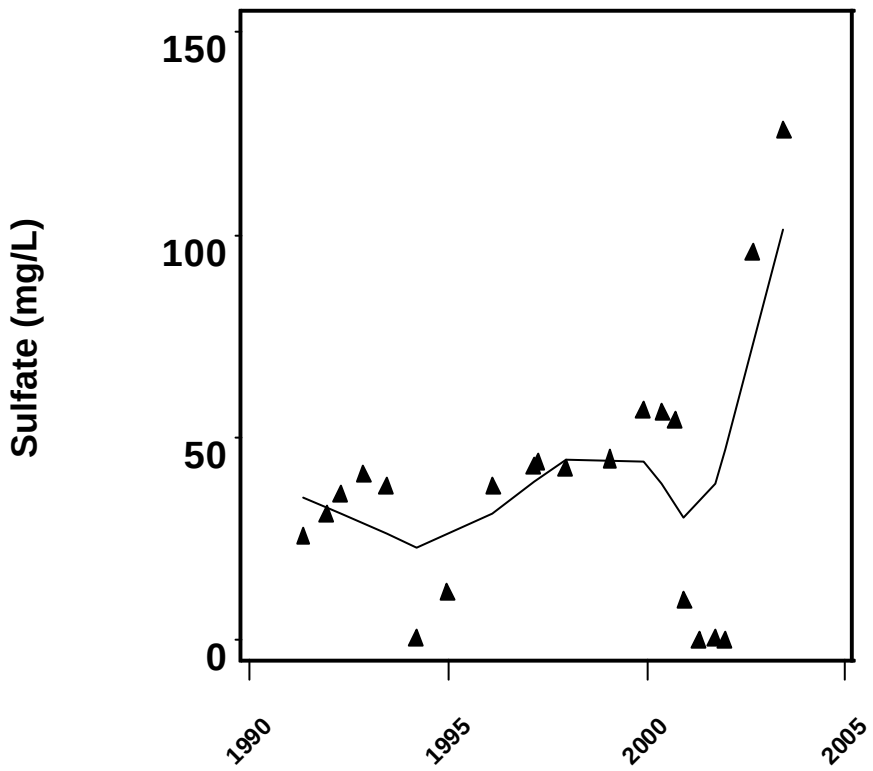
Appendix B-2. Water Quality Scatterplots Fitted with a LOWESS Curve for BARDMOOR DEEP WELL.



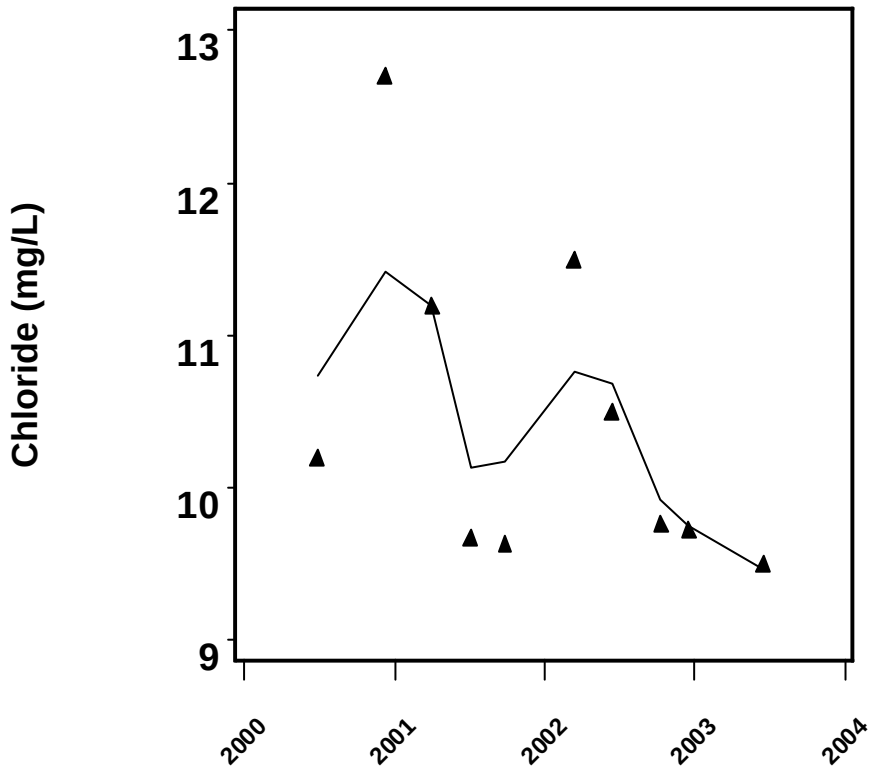


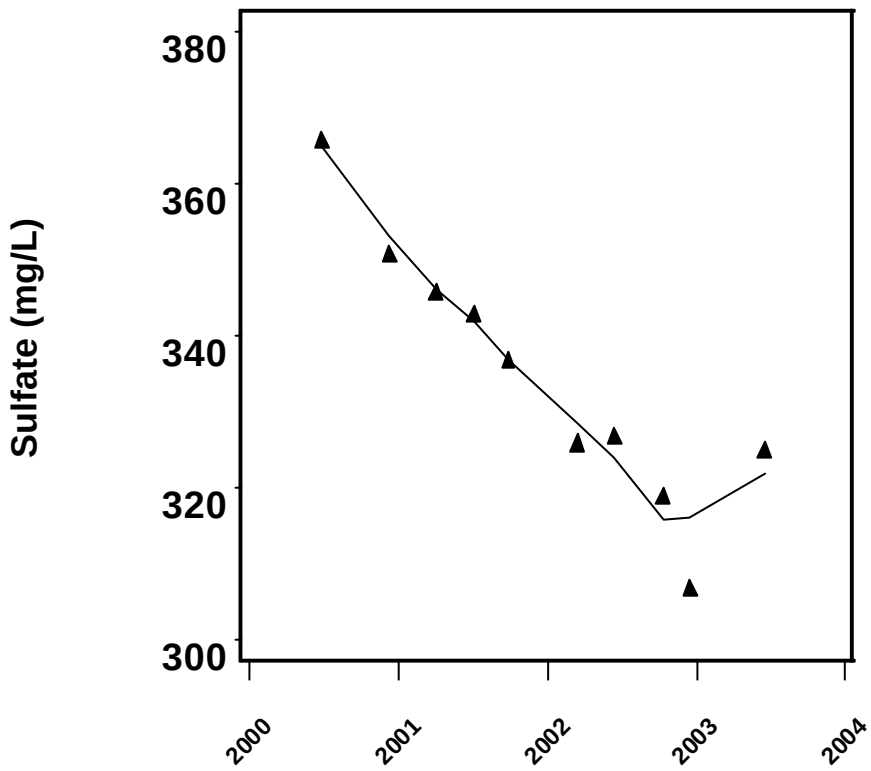
Appendix B-3. Water Quality Scatterplots Fitted with a LOWESS Curve for BETTY JAY SPRING WELL.



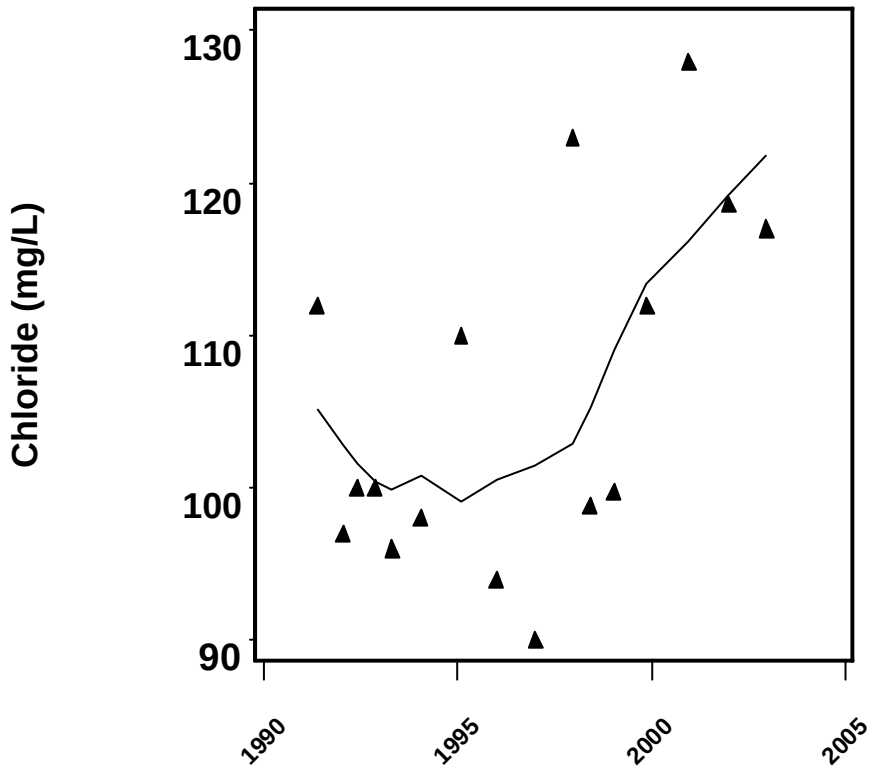


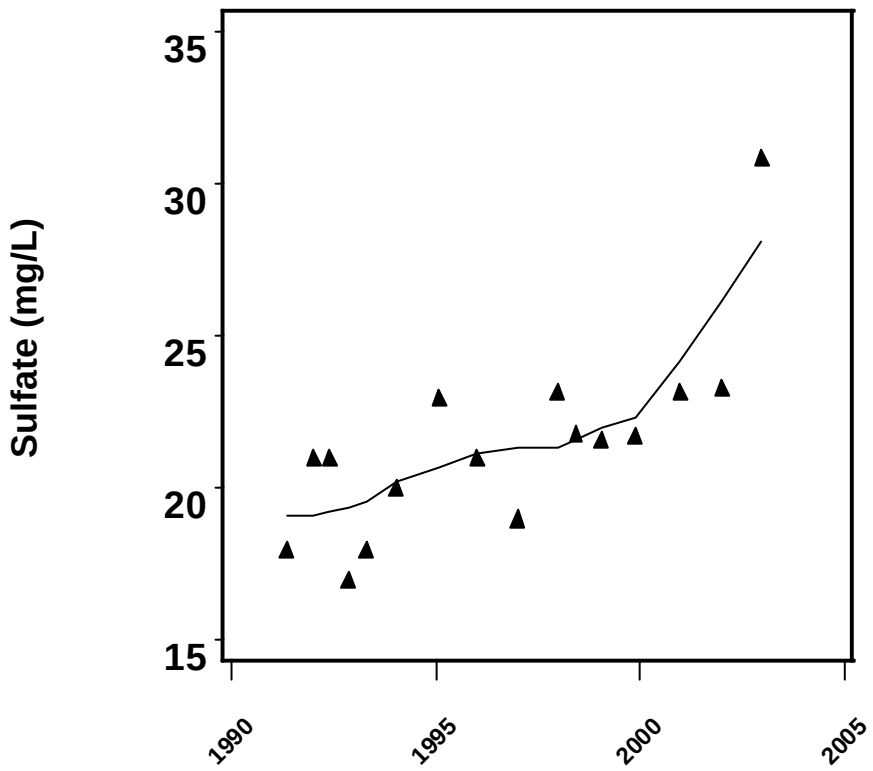
Appendix B-4. Water Quality Scatterplots Fitted with a LOWESS Curve for BUTLER S C B S 15 #1.



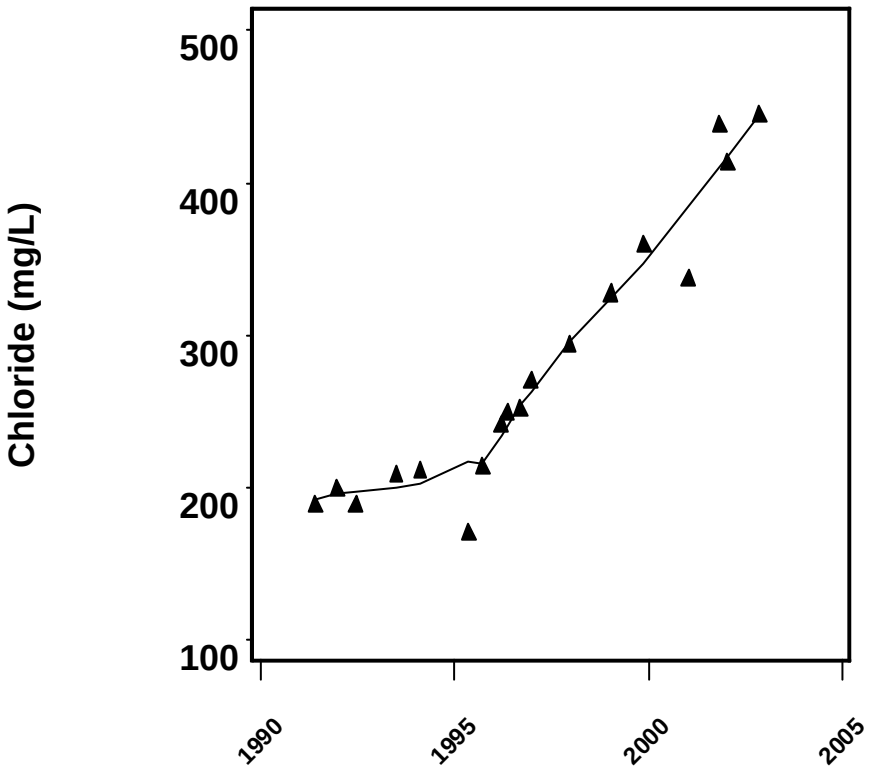


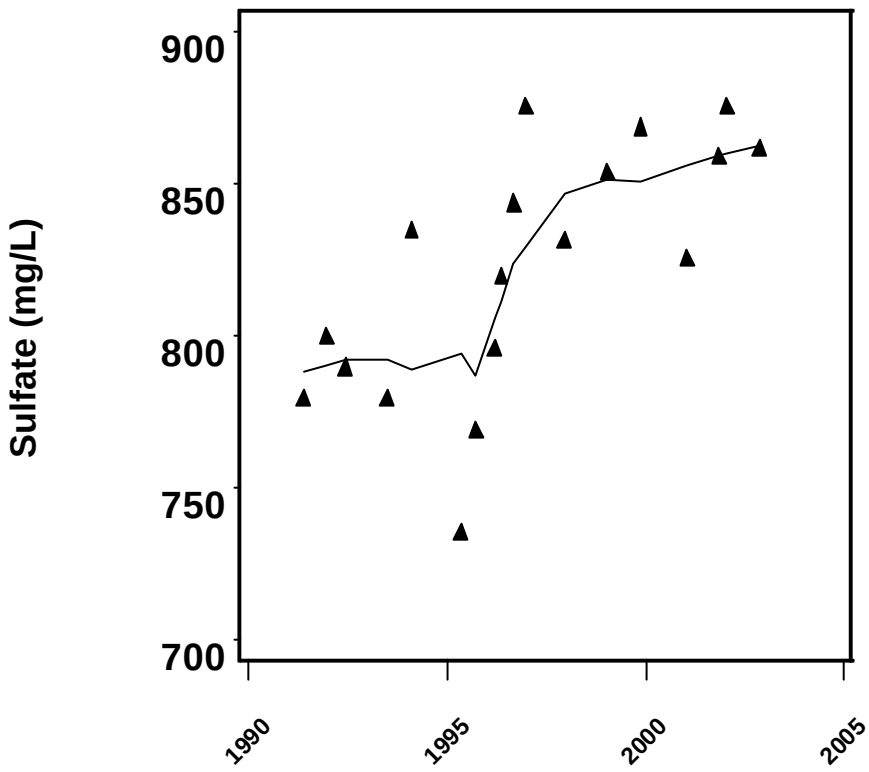
Appendix B-5. Water Quality Scatterplots Fitted with a LOWESS Curve for CARGILL FA-1.



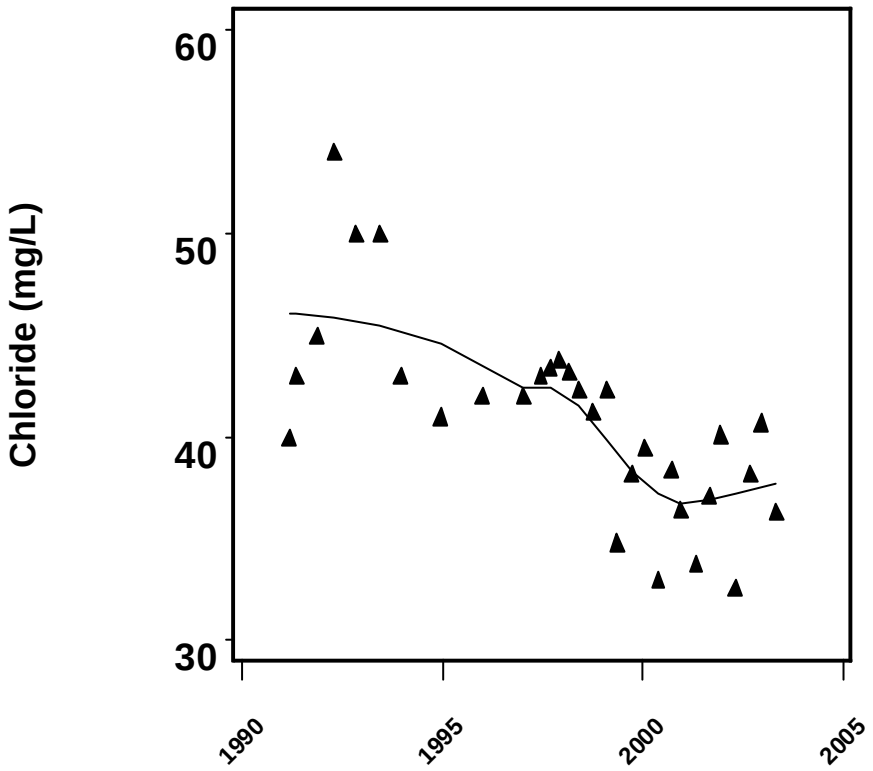


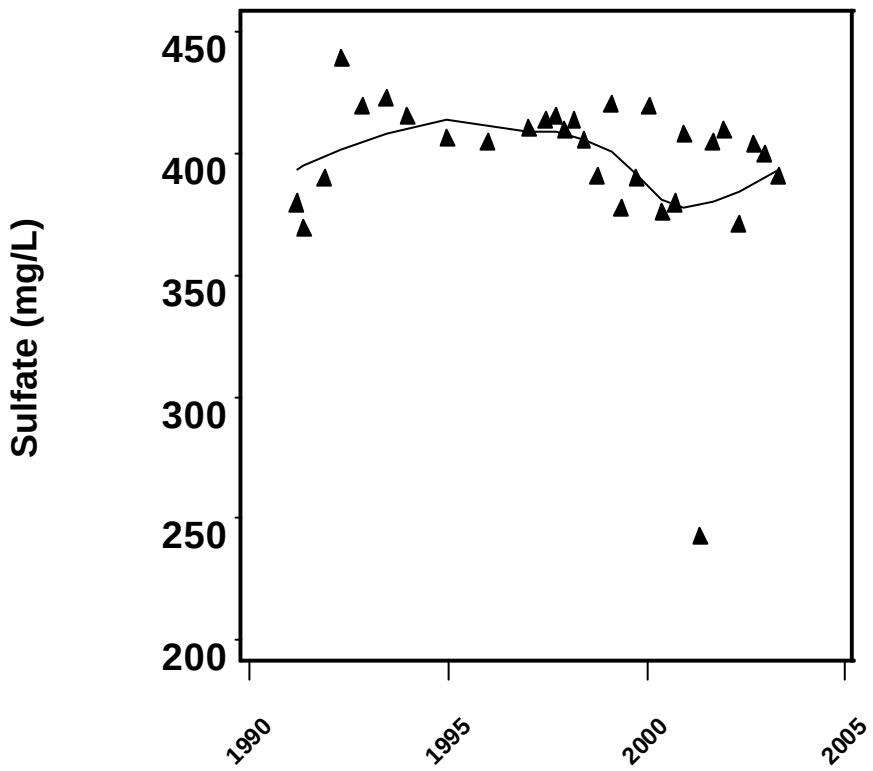
Appendix B-6. Water Quality Scatterplots Fitted with a LOWESS Curve for CITY OF HUDSON.



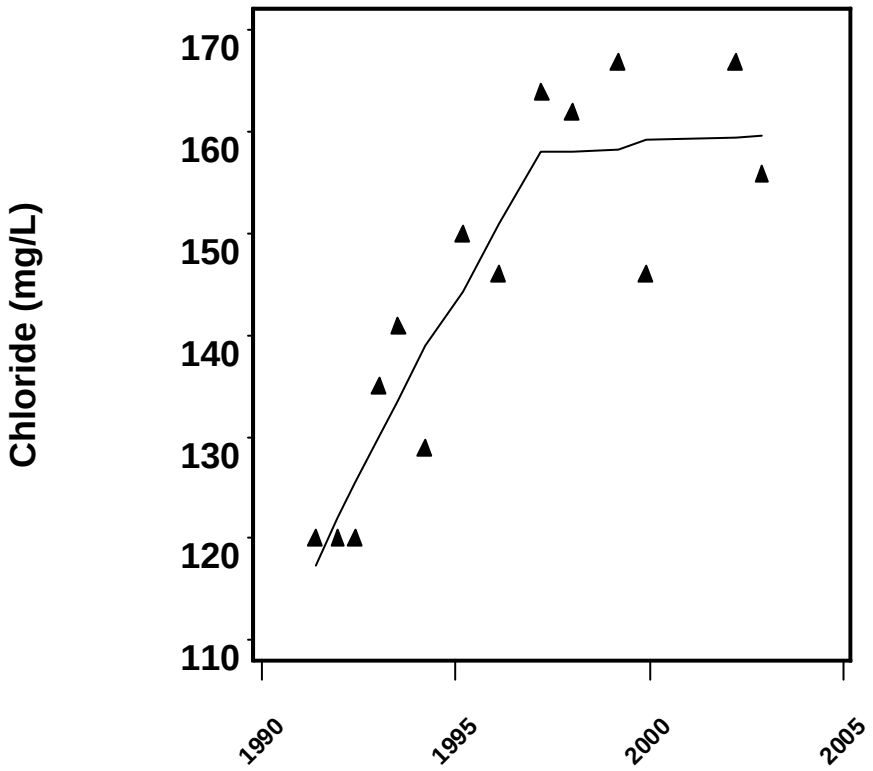


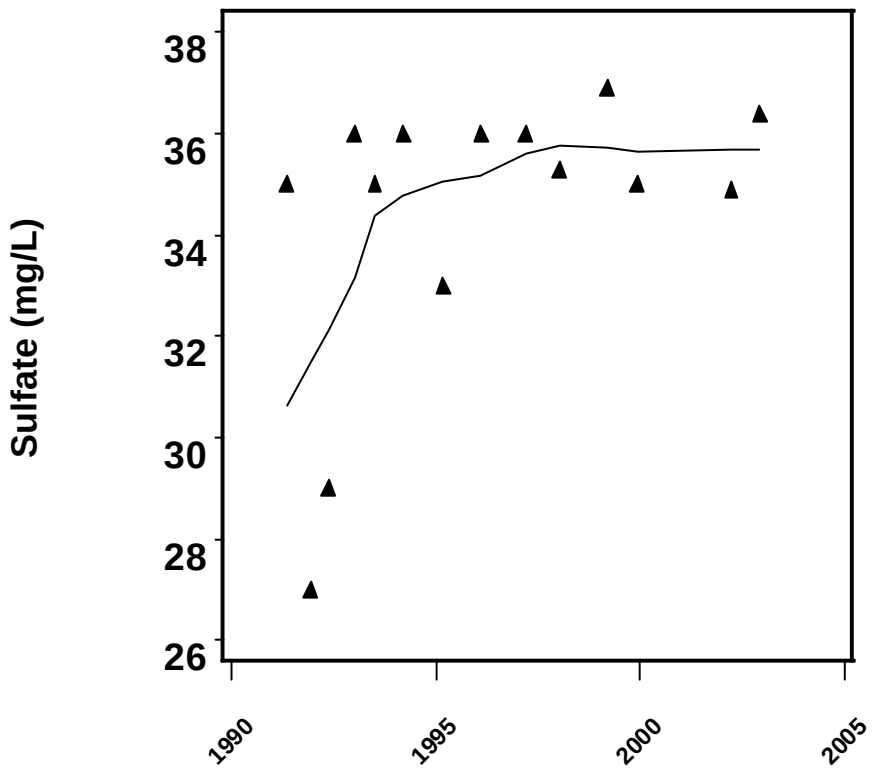
Appendix B-7. Water Quality Scatterplots Fitted with a LOWESS Curve for CITY OF SARASOTA 21ST RR.



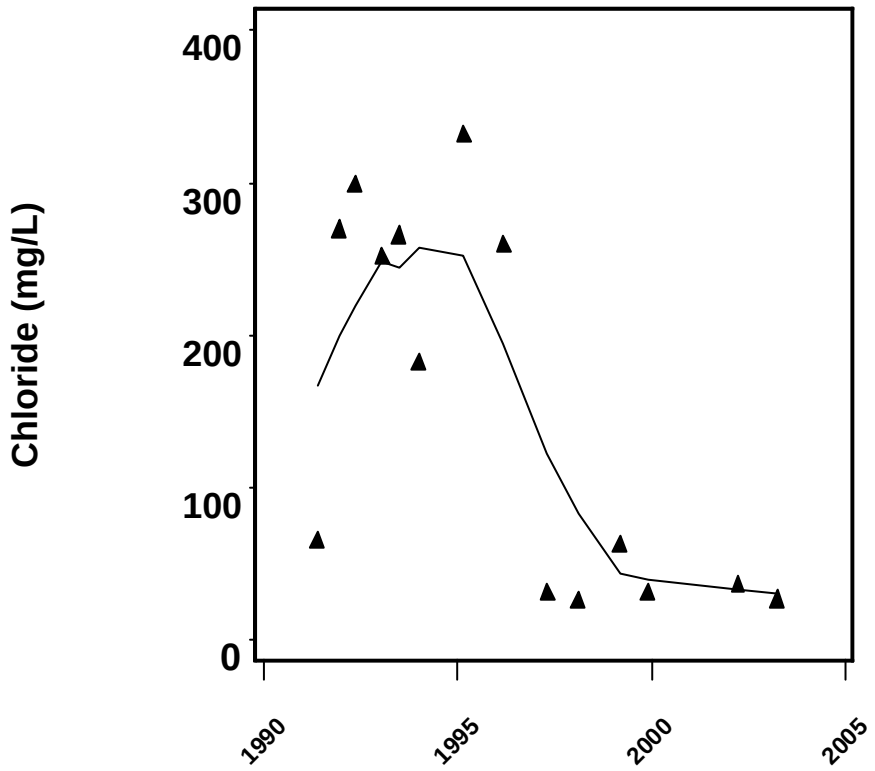


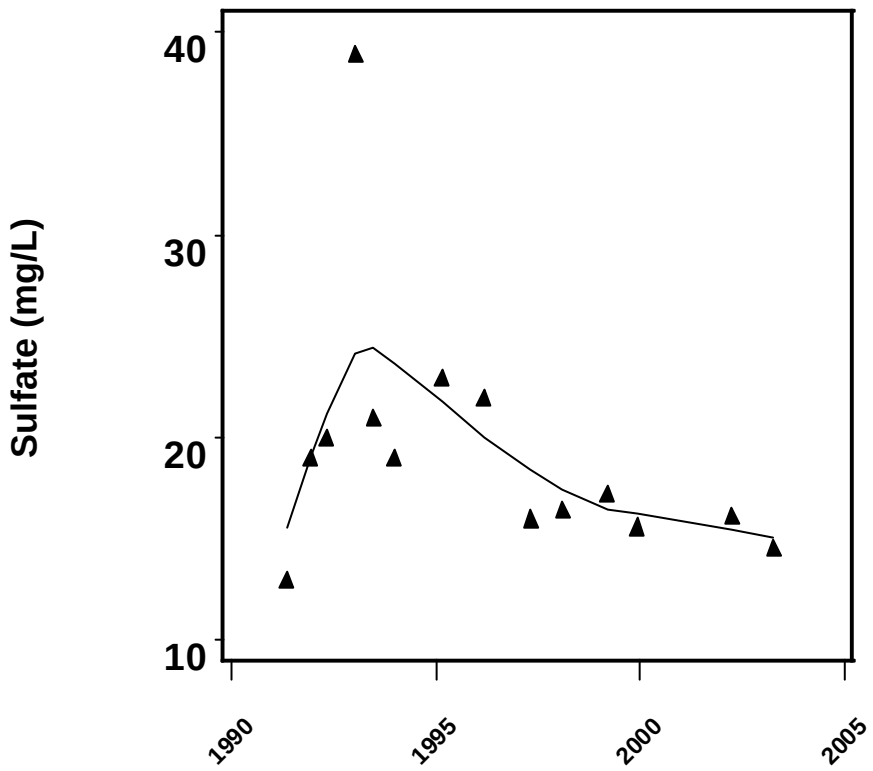
Appendix B-8. Water Quality Scatterplots Fitted with a LOWESS Curve for CLAPROD WL NR RUSKIN.



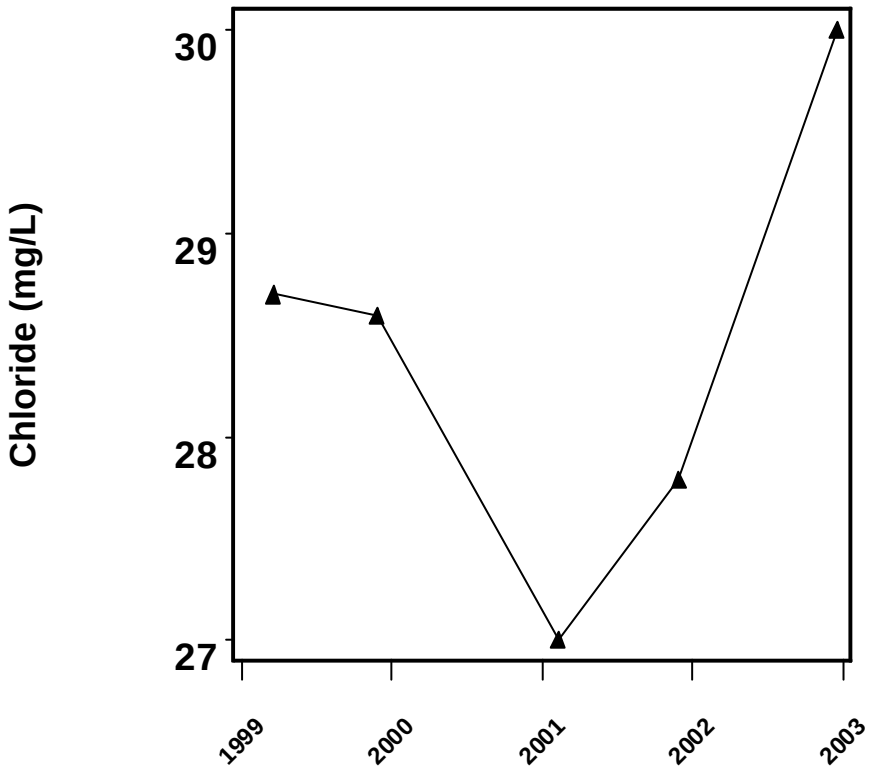


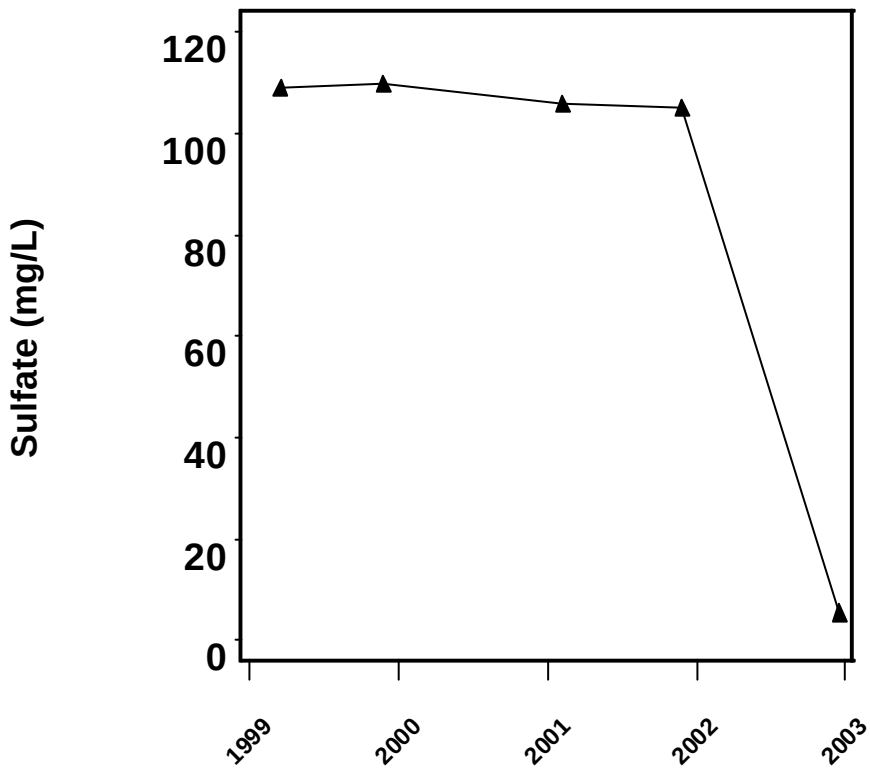
Appendix B-9. Water Quality Scatterplots Fitted with a LOWESS Curve for CLEARWATER 15 (DUNEDIN 6).



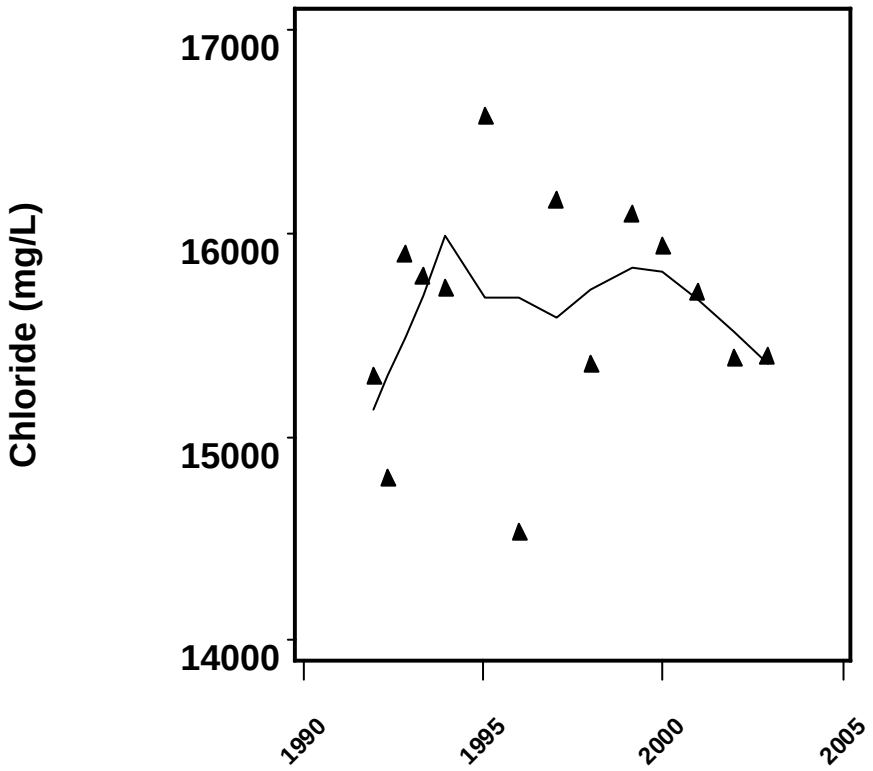


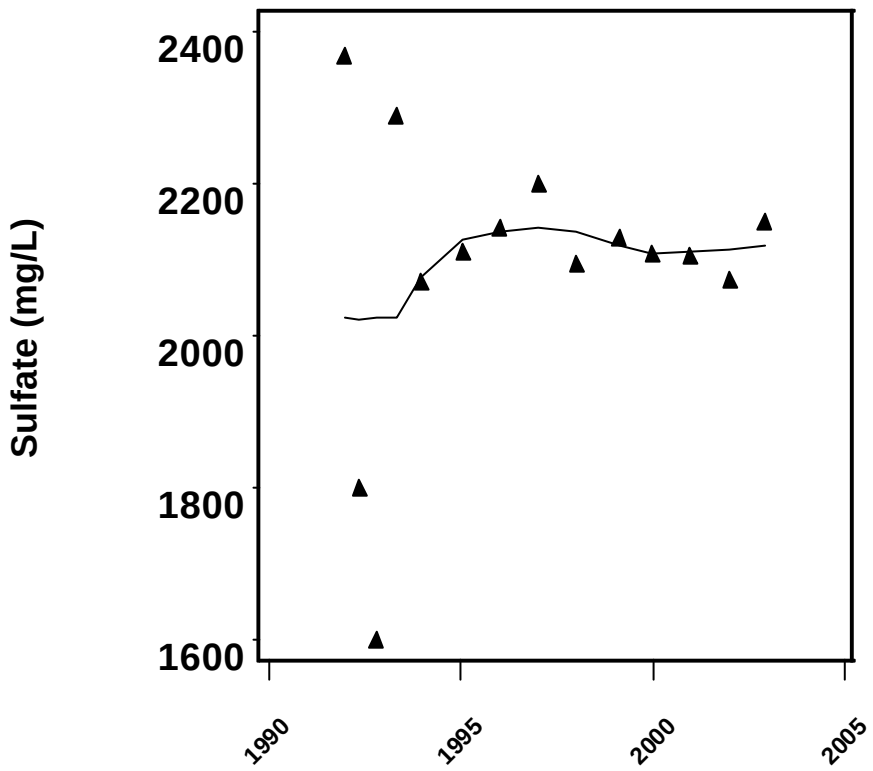
Appendix B-10. Water Quality Scatterplots Fitted with a LOWESS Curve for CLEARWATER WELL 67.



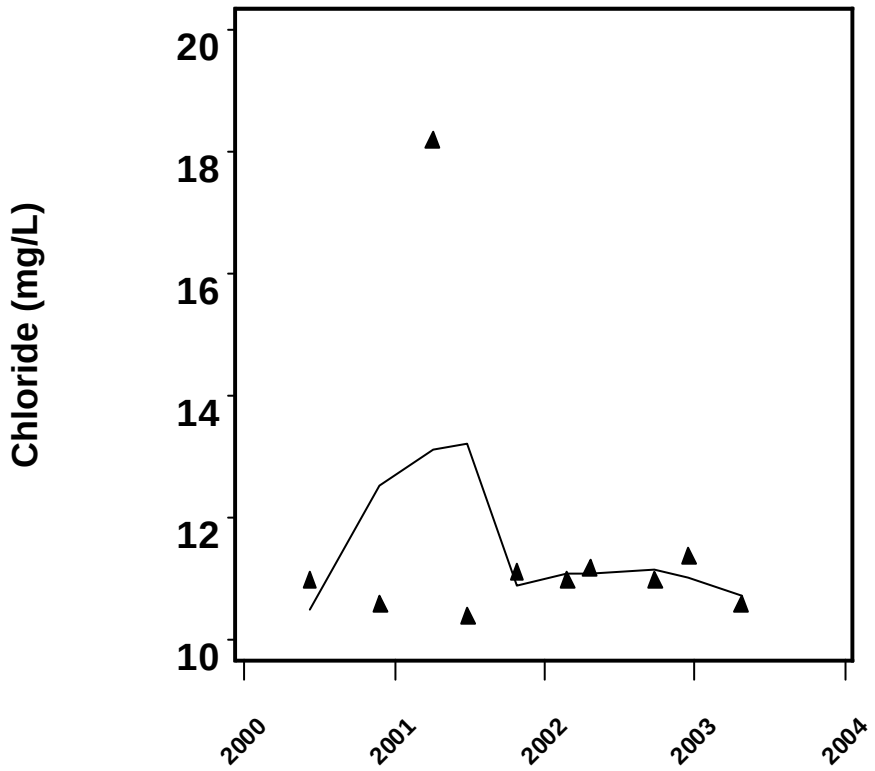


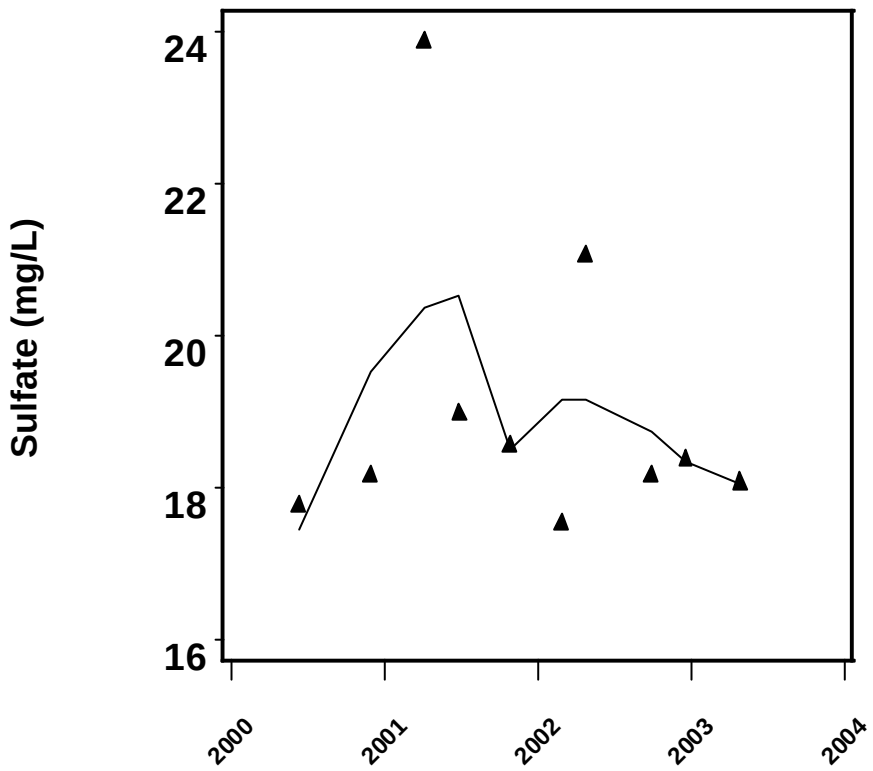
Appendix B-11. Water Quality Scatterplots Fitted with a LOWESS Curve for CNB #3.



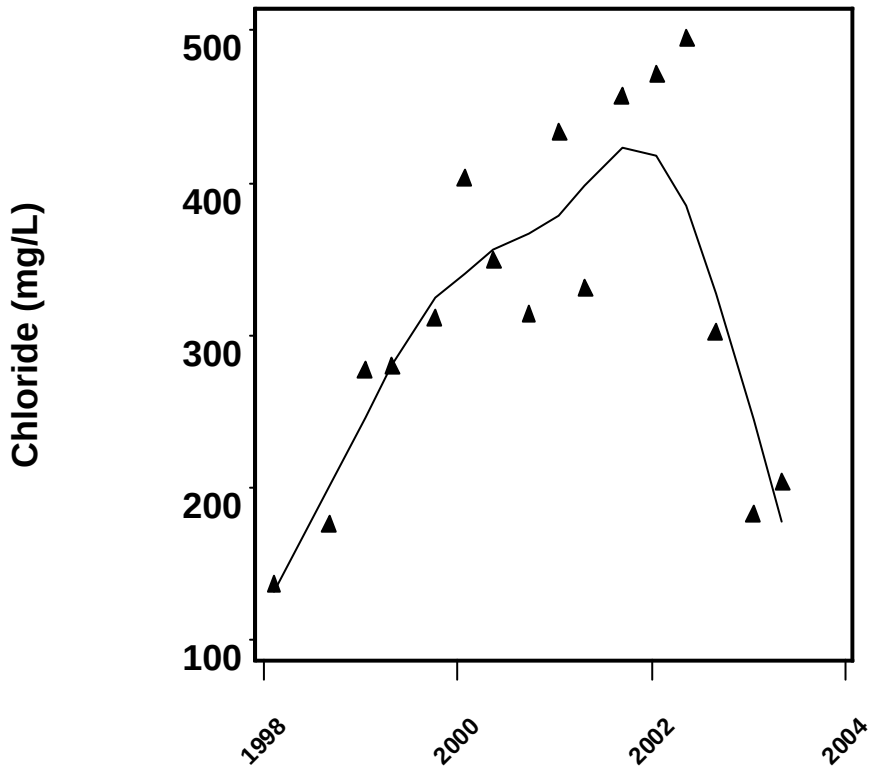


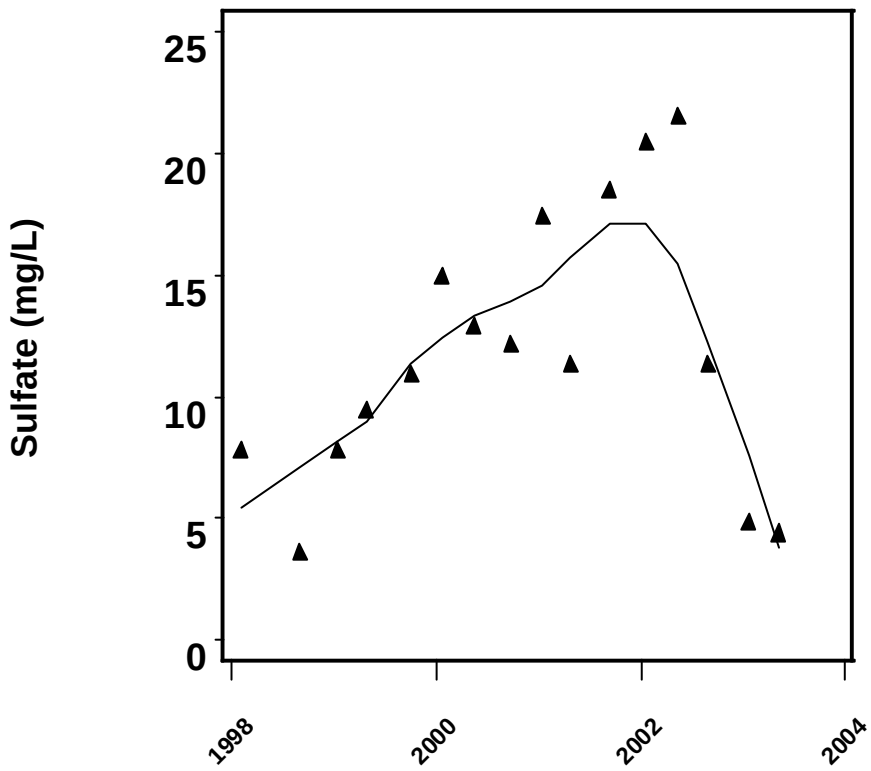
Appendix B-12. Water Quality Scatterplots Fitted with a LOWESS Curve for COASTAL PASCO #4.



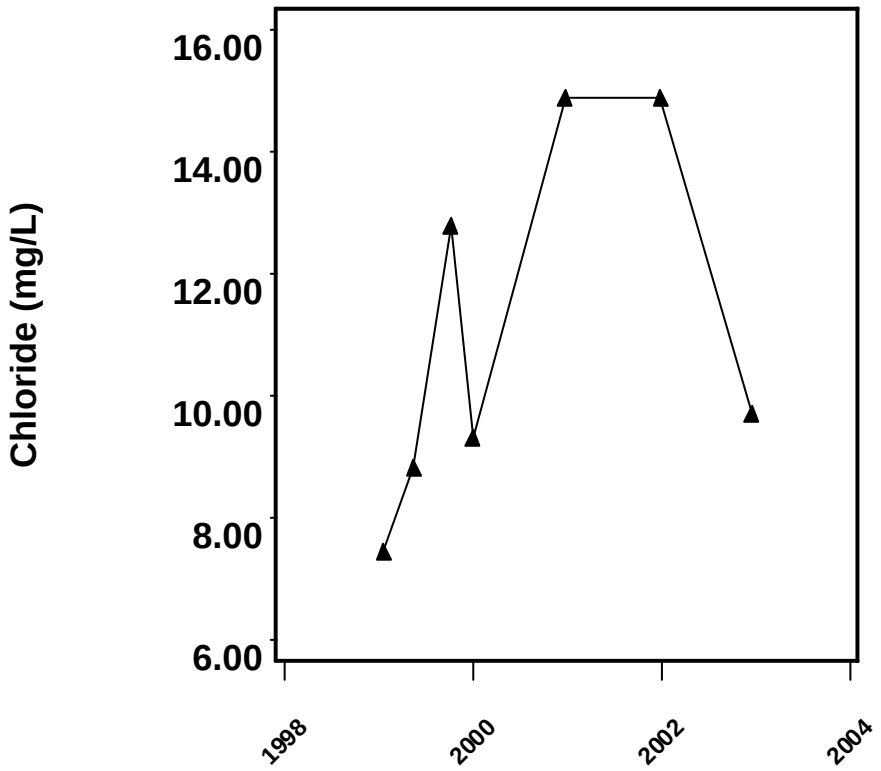


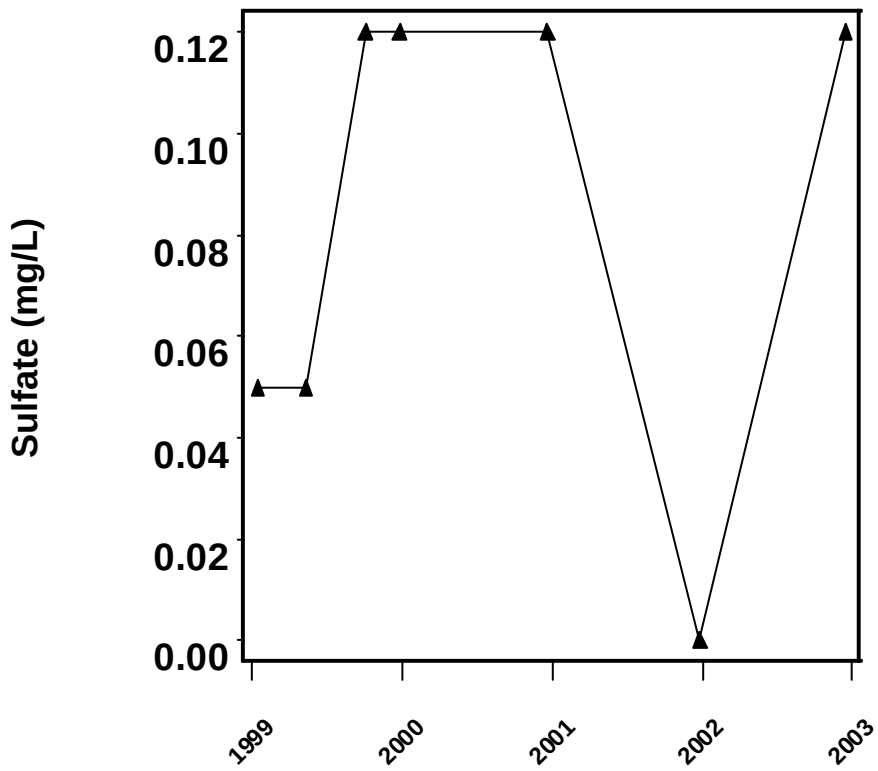
Appendix B-13. Water Quality Scatterplots Fitted with a LOWESS Curve for COLEY WELL.



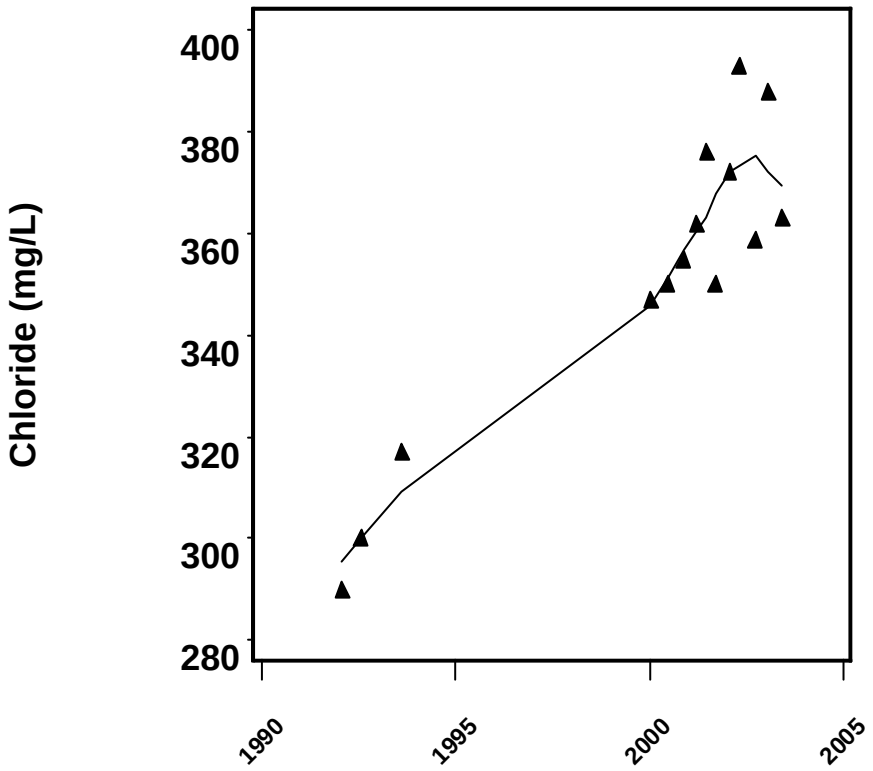


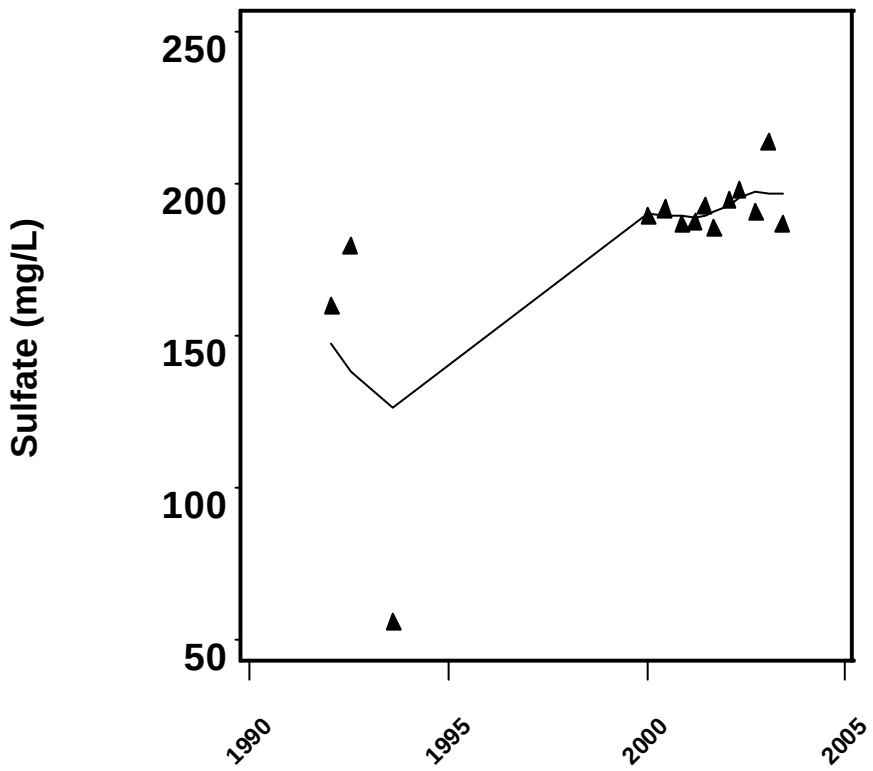
Appendix B-14. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-6 FL JENKINS CREEK.



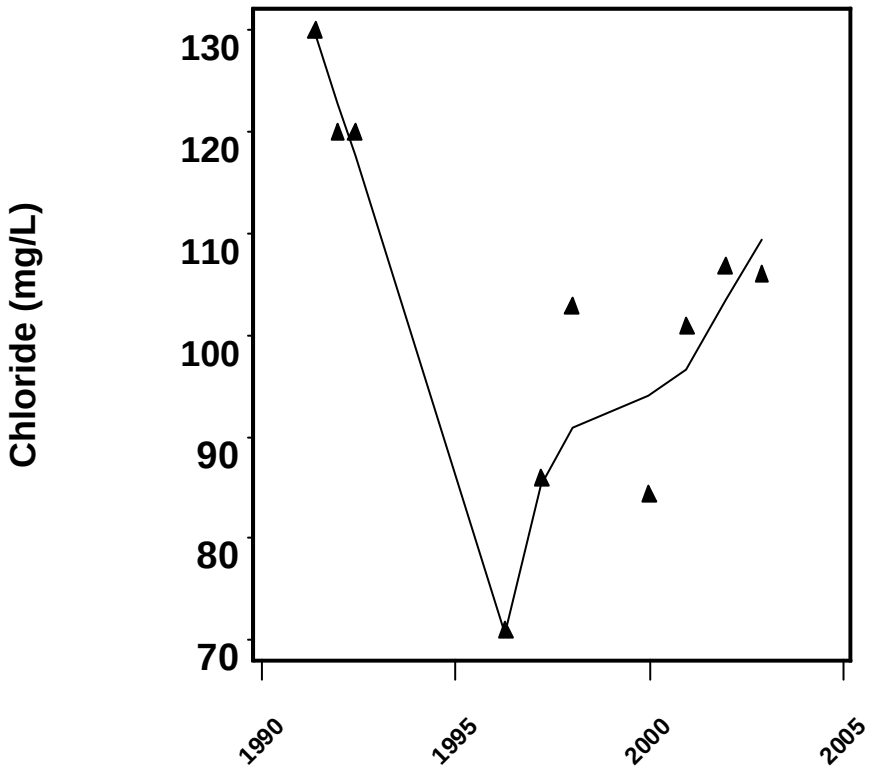


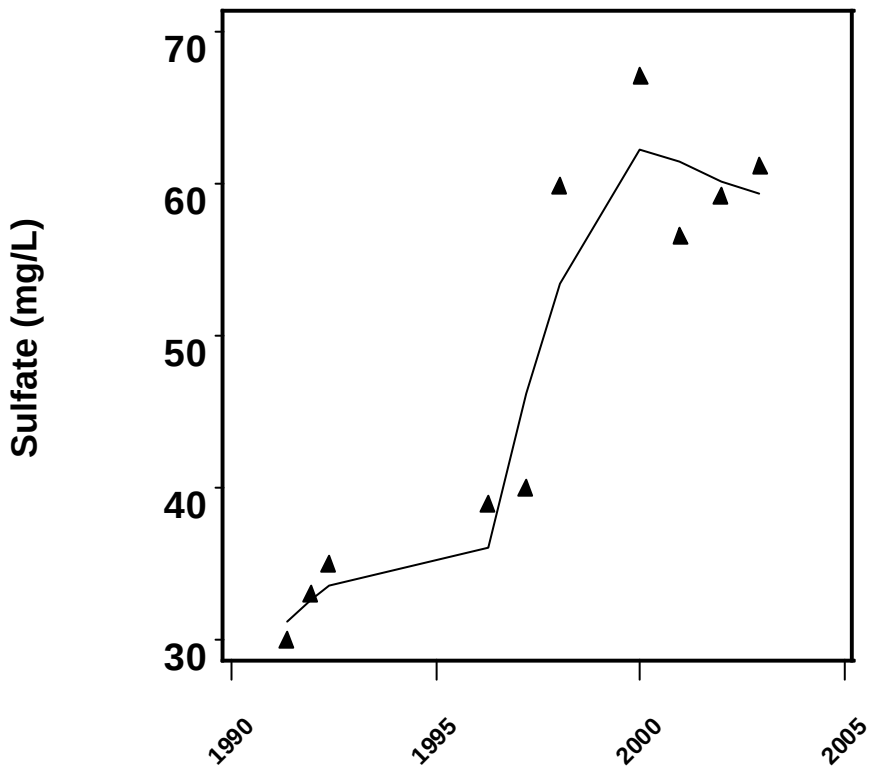
Appendix B-15. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-7 ARIPEKA UP FL.



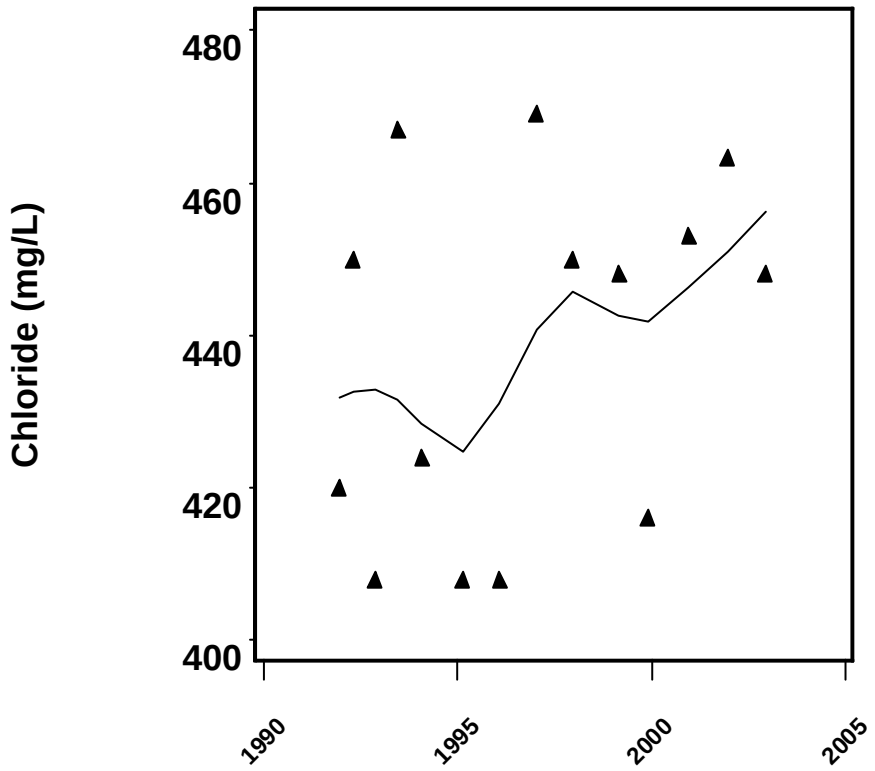


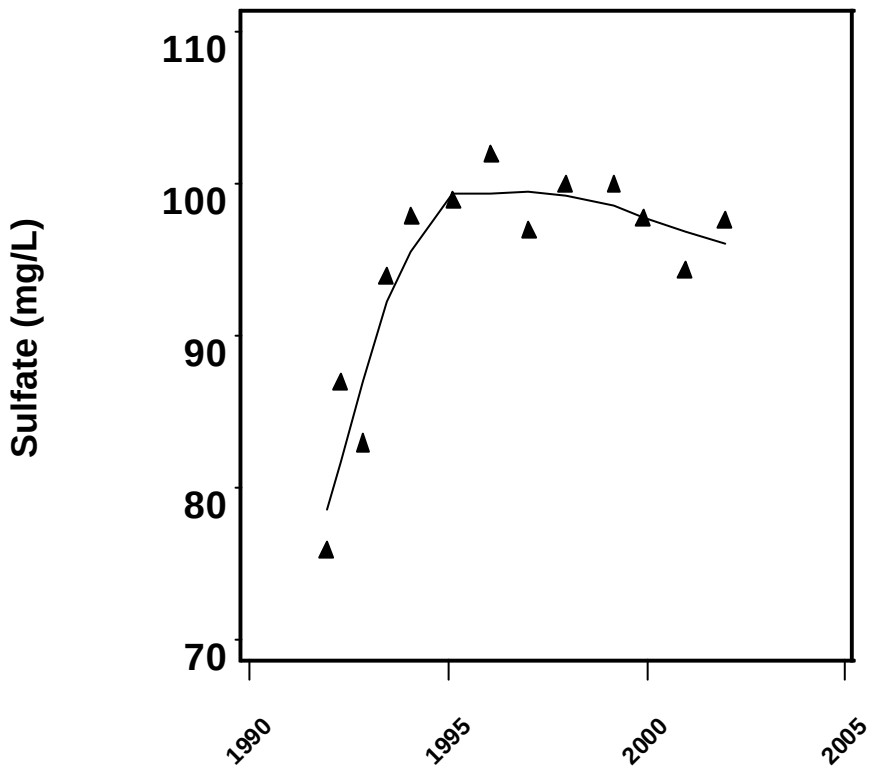
Appendix B-16. Water Quality Scatterplots Fitted with a LOWESS Curve for DT BROWN G-36.



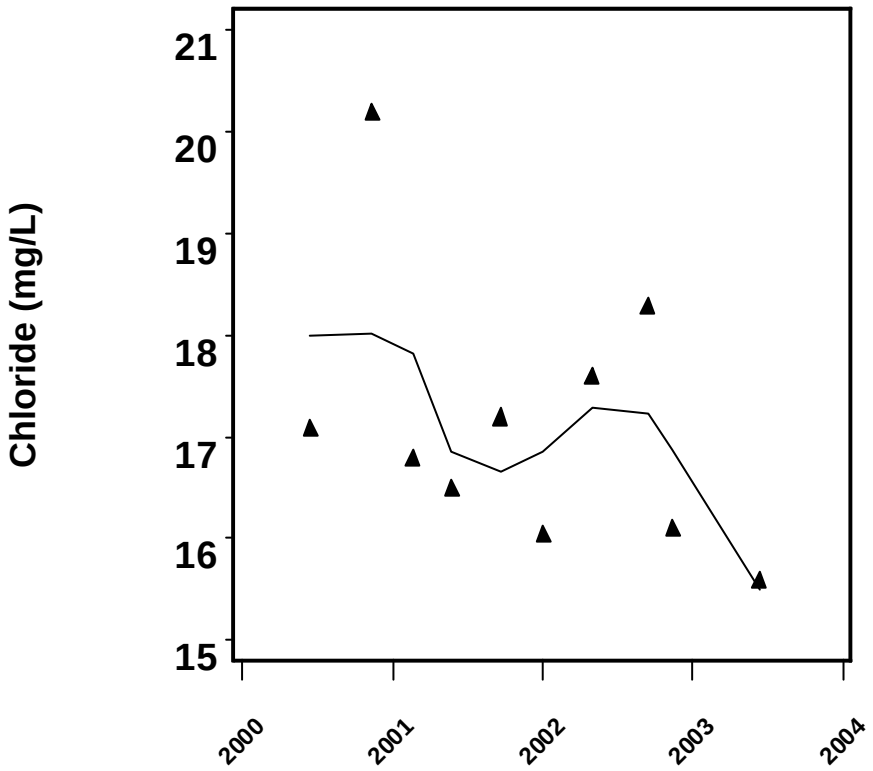


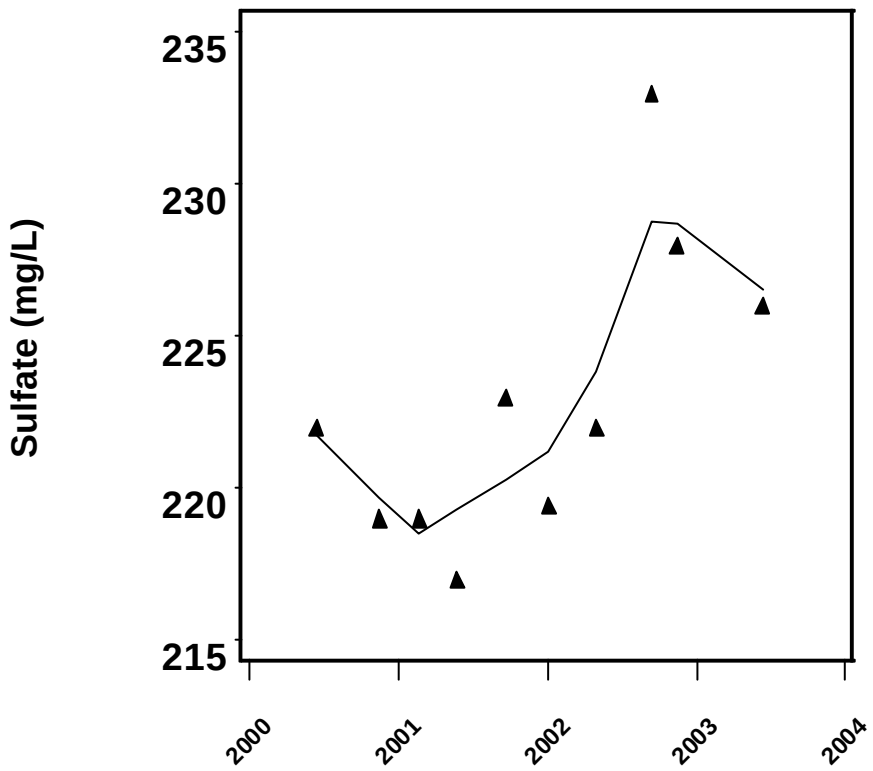
Appendix B-17. Water Quality Scatterplots Fitted with a LOWESS Curve for DUNEDIN #4.



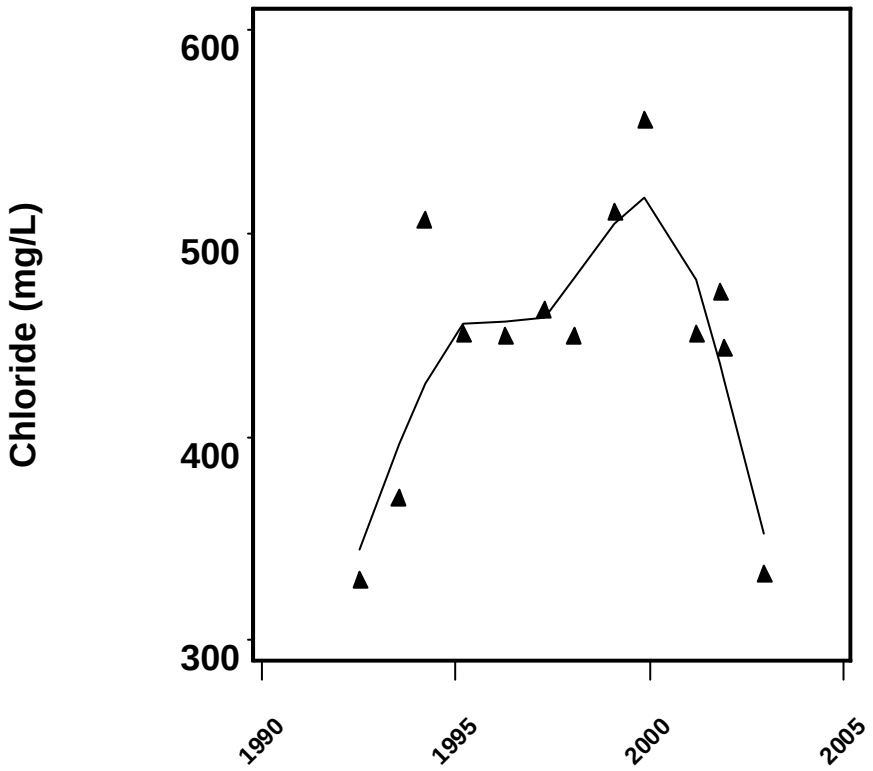


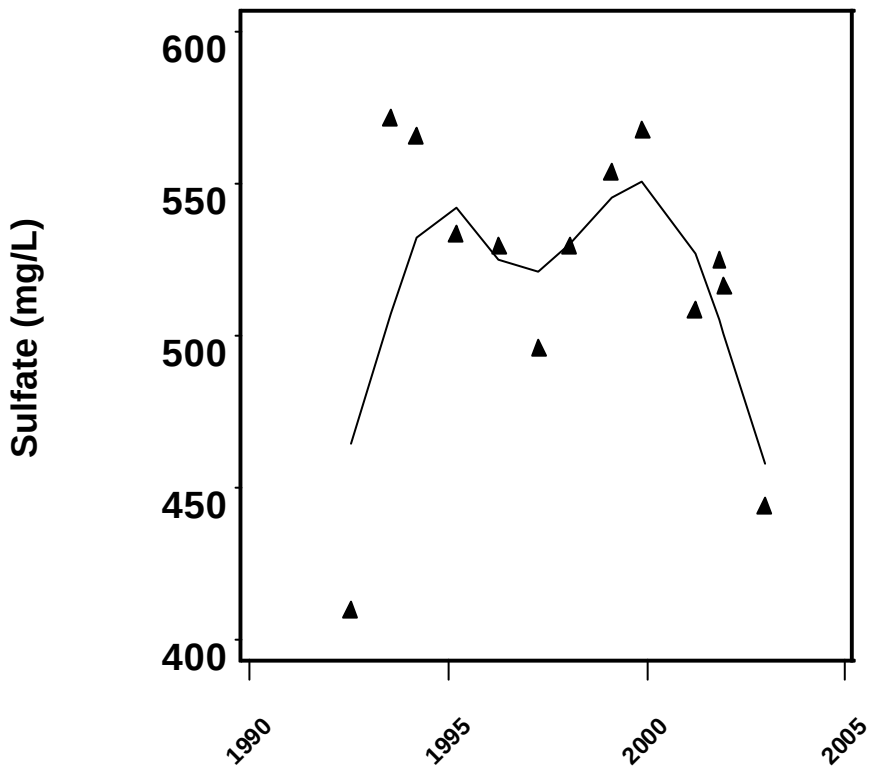
Appendix B-18. Water Quality Scatterplots Fitted with a LOWESS Curve for EAST LAKE WOODLANDS FL.



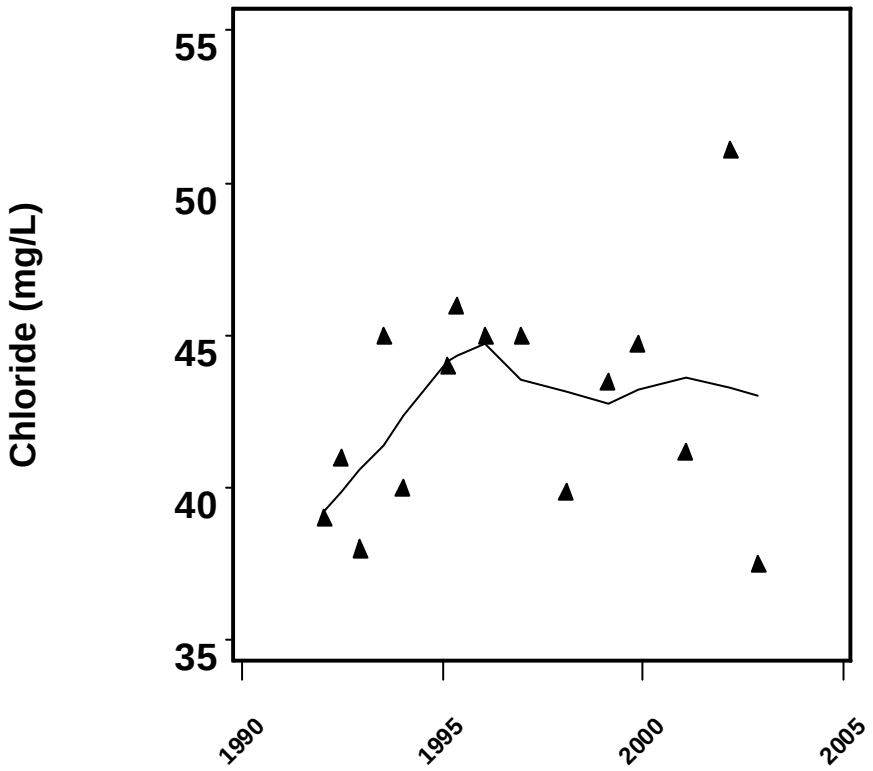


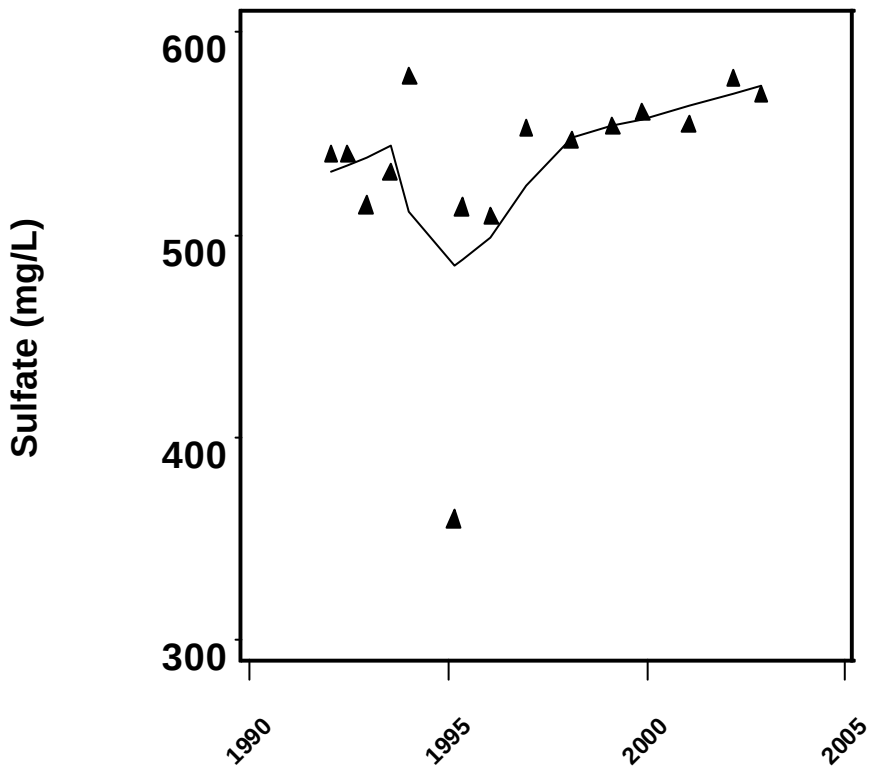
Appendix B-19. Water Quality Scatterplots Fitted with a LOWESS Curve for EDGEVILLE DEEP #3.



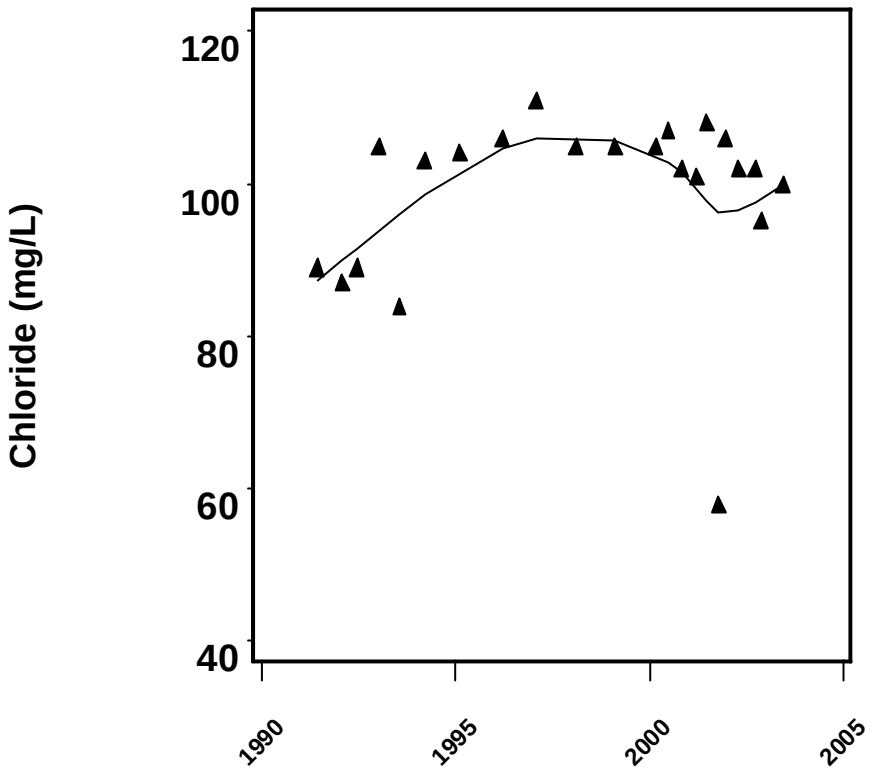


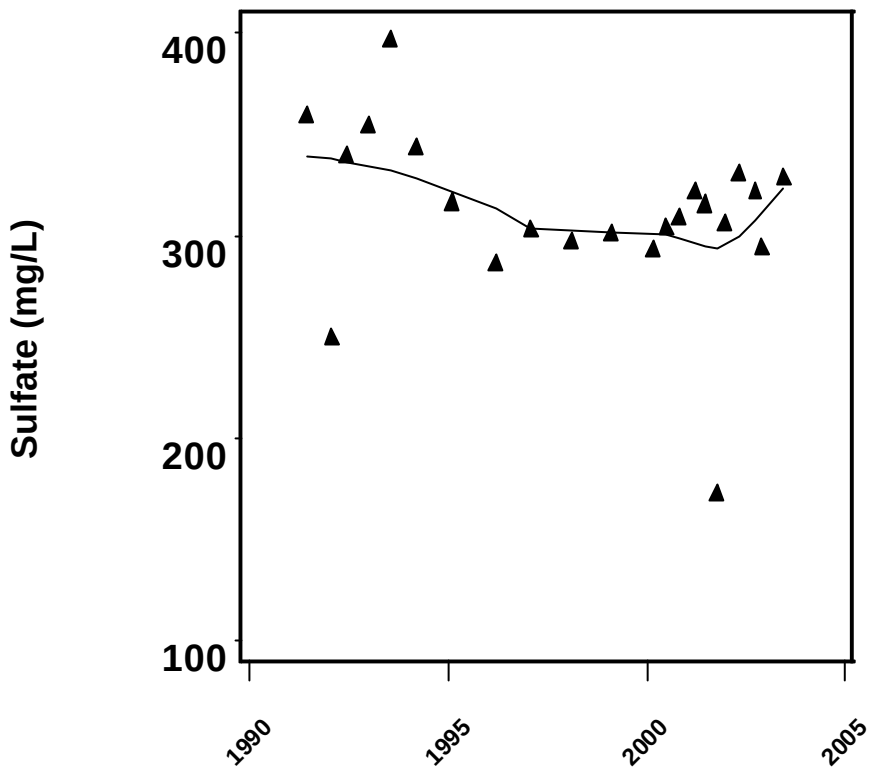
Appendix B-20. Water Quality Scatterplots Fitted with a LOWESS Curve for FL POWER & LIGHT WEL.



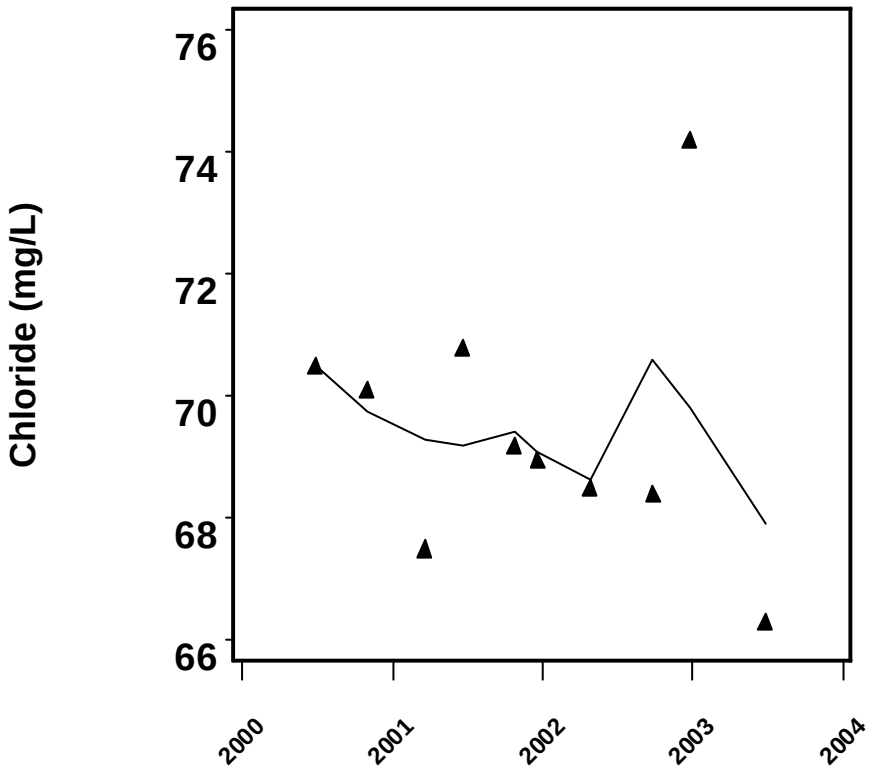


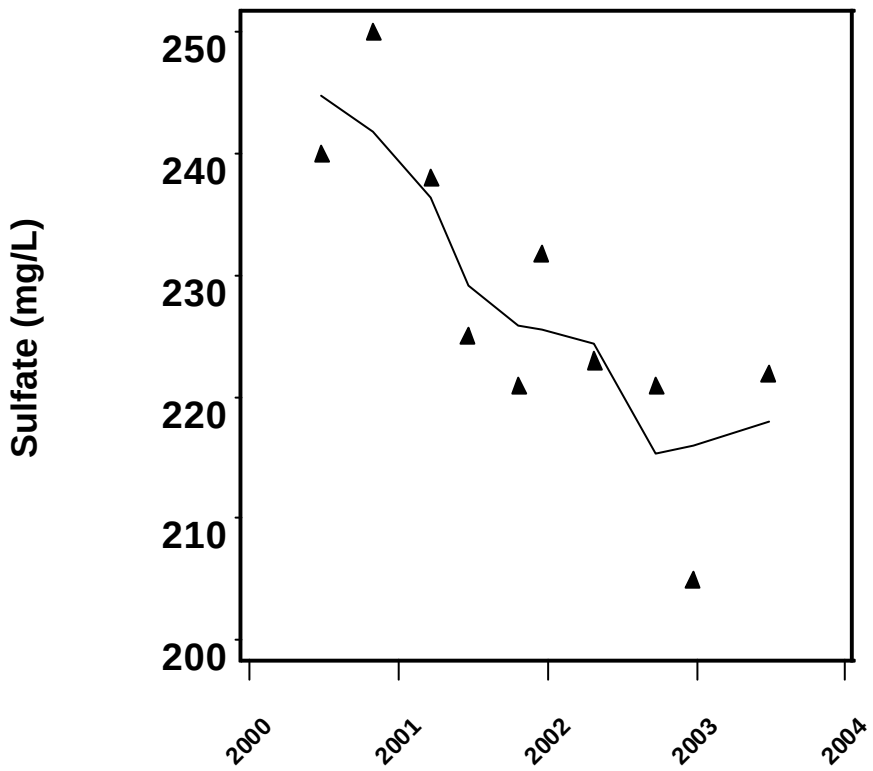
Appendix B-21. Water Quality Scatterplots Fitted with a LOWESS Curve for FLORIDA CITIES TEST.



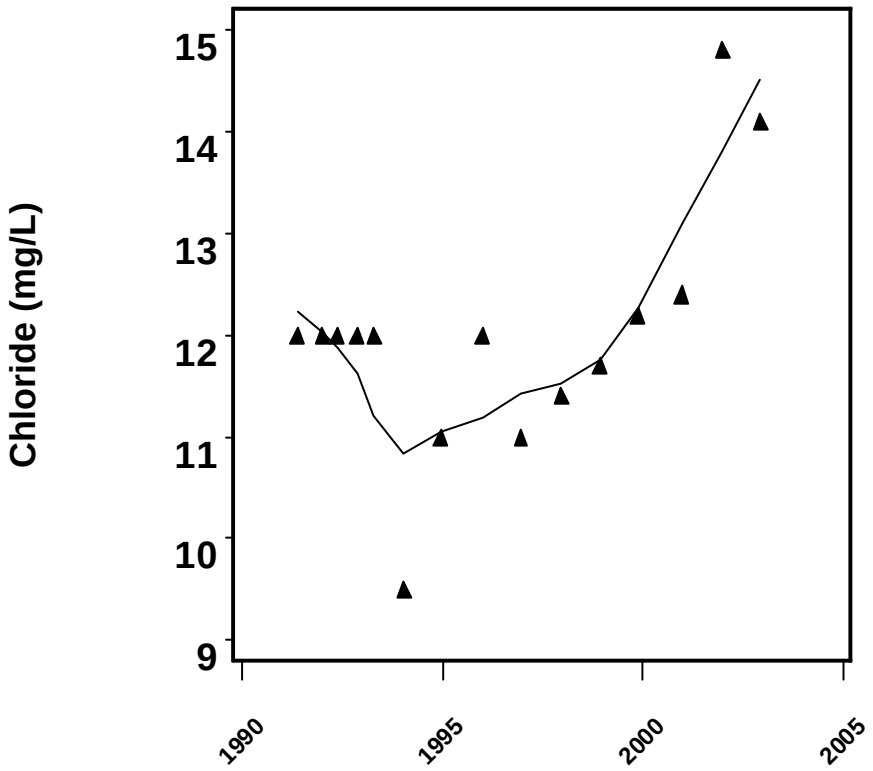


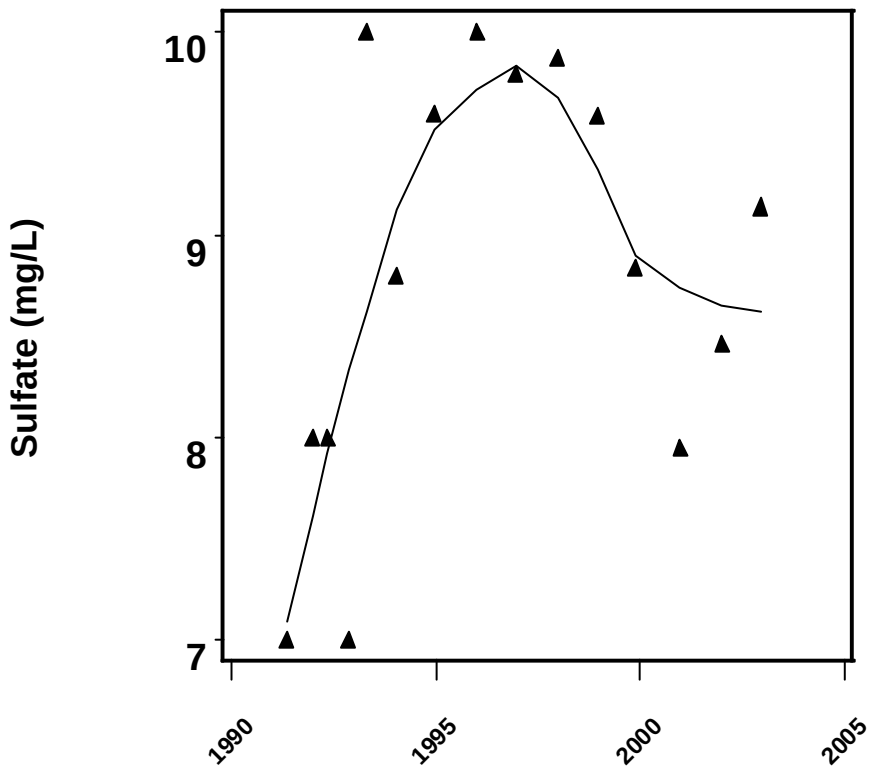
Appendix B-22. Water Quality Scatterplots Fitted with a LOWESS Curve for GDU WELL M-2.



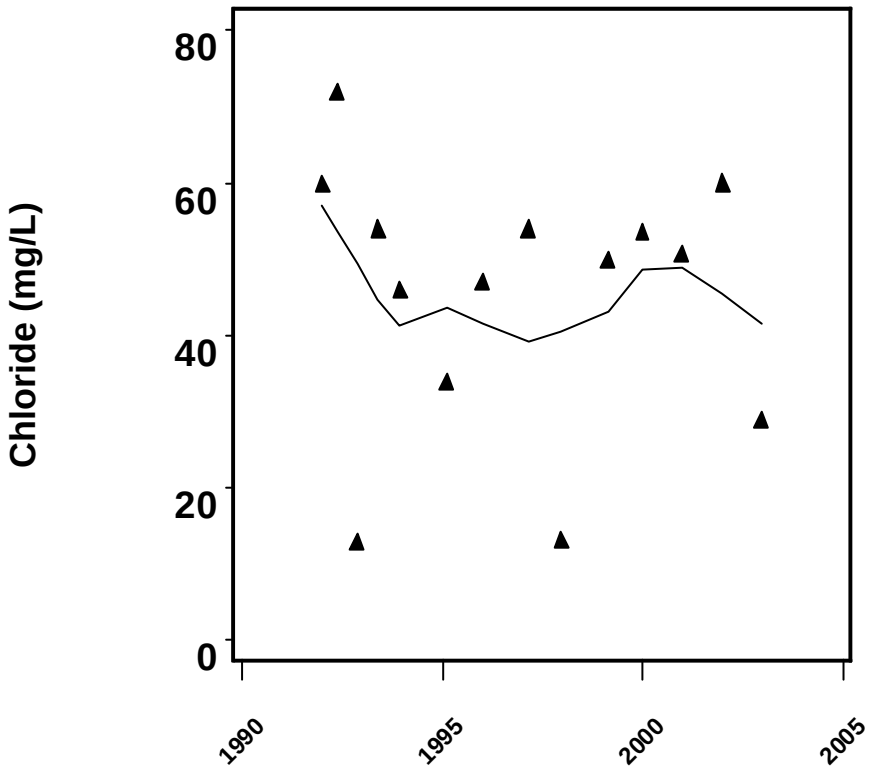


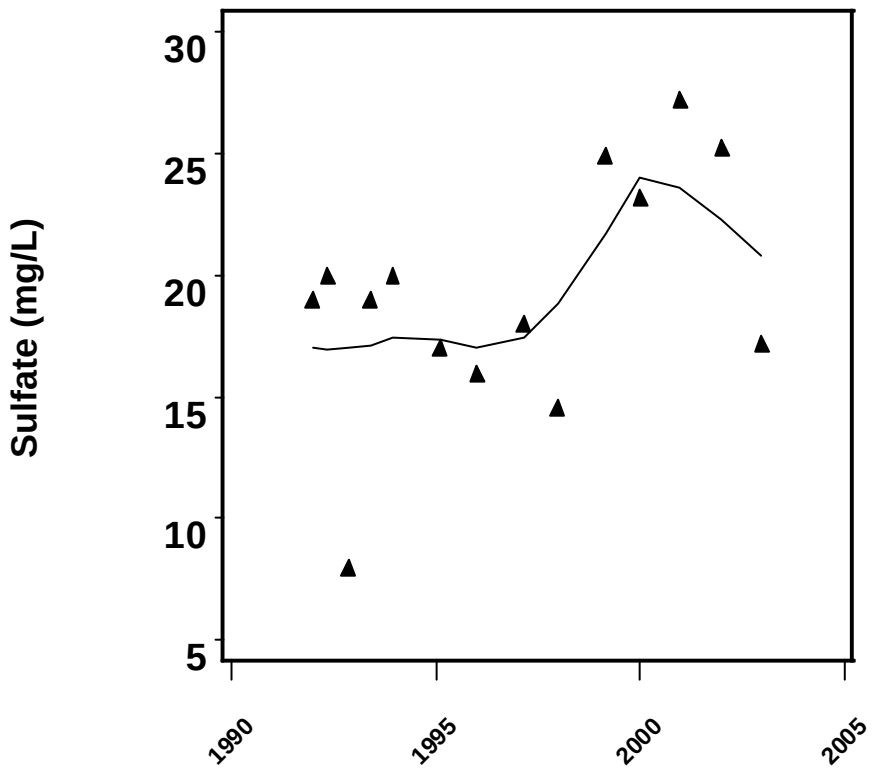
Appendix B-23. Water Quality Scatterplots Fitted with a LOWESS Curve for GP WOOD PROD WELL #5.



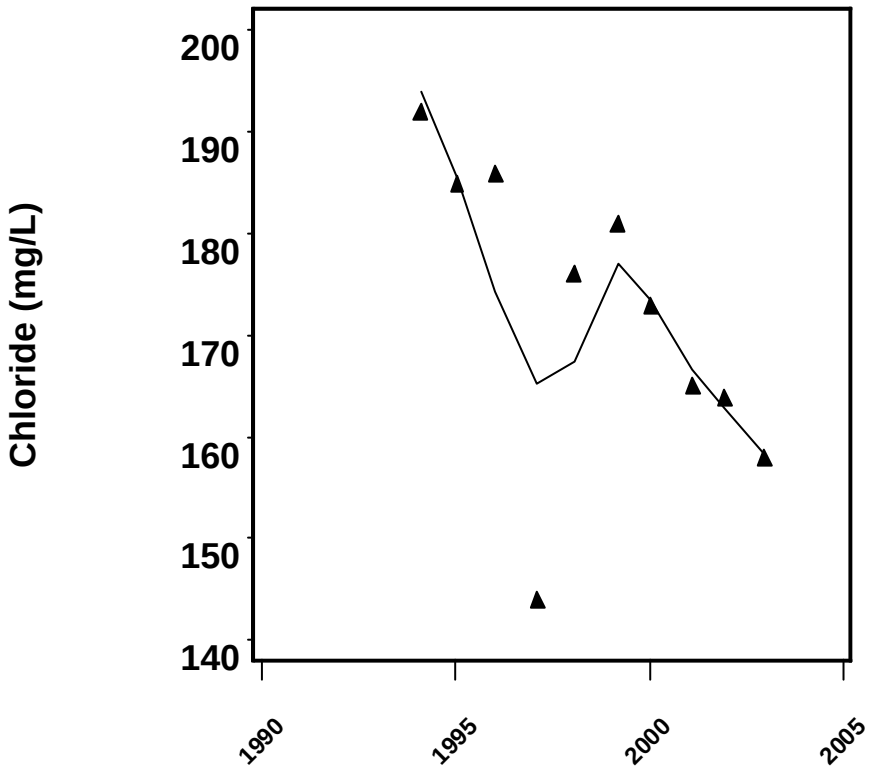


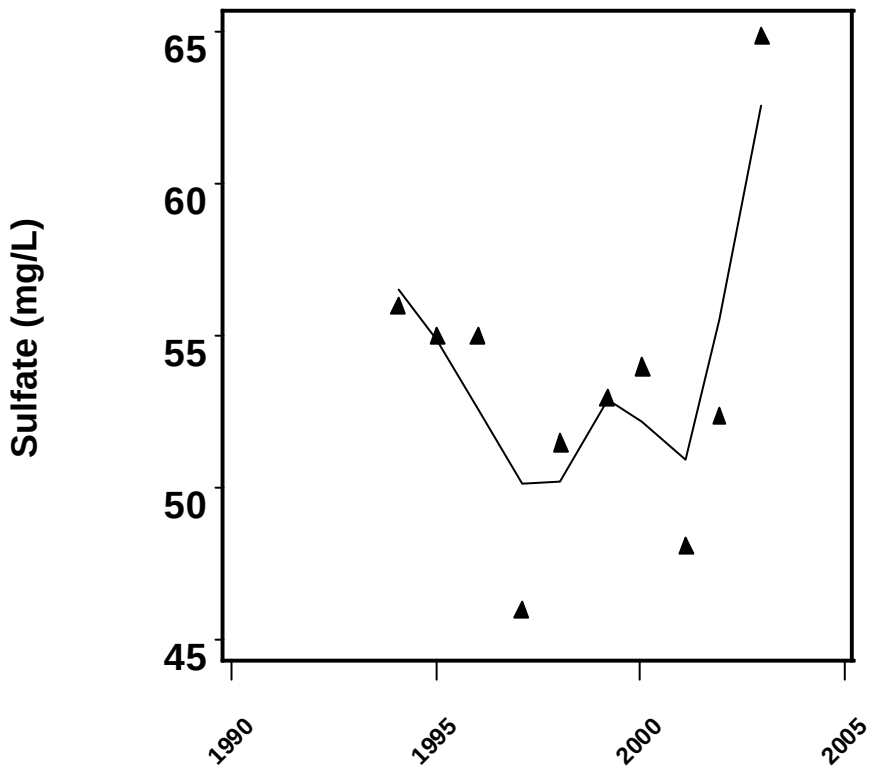
Appendix B-24. Water Quality Scatterplots Fitted with a LOWESS Curve for GRACE MEMORIAL #2.



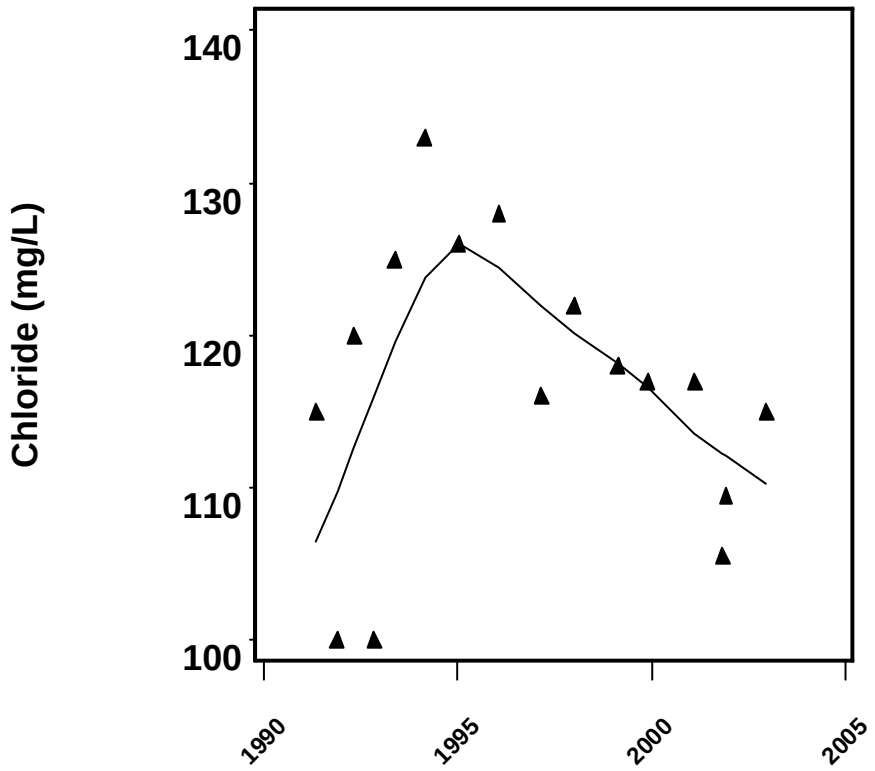


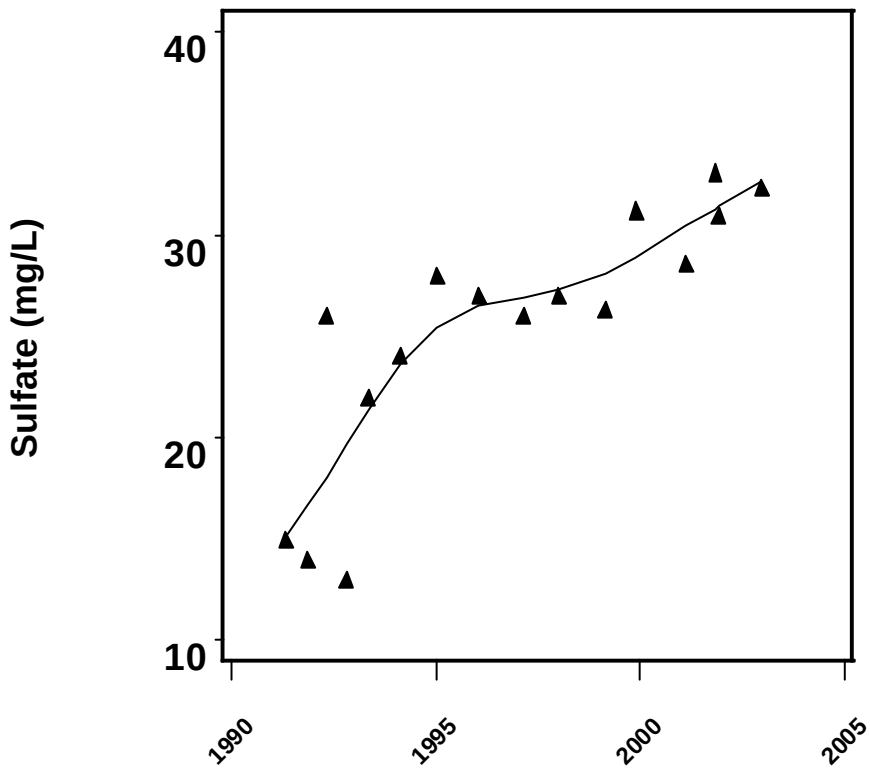
Appendix B-25. Water Quality Scatterplots Fitted with a LOWESS Curve for GULF MIDDLE HIGH.



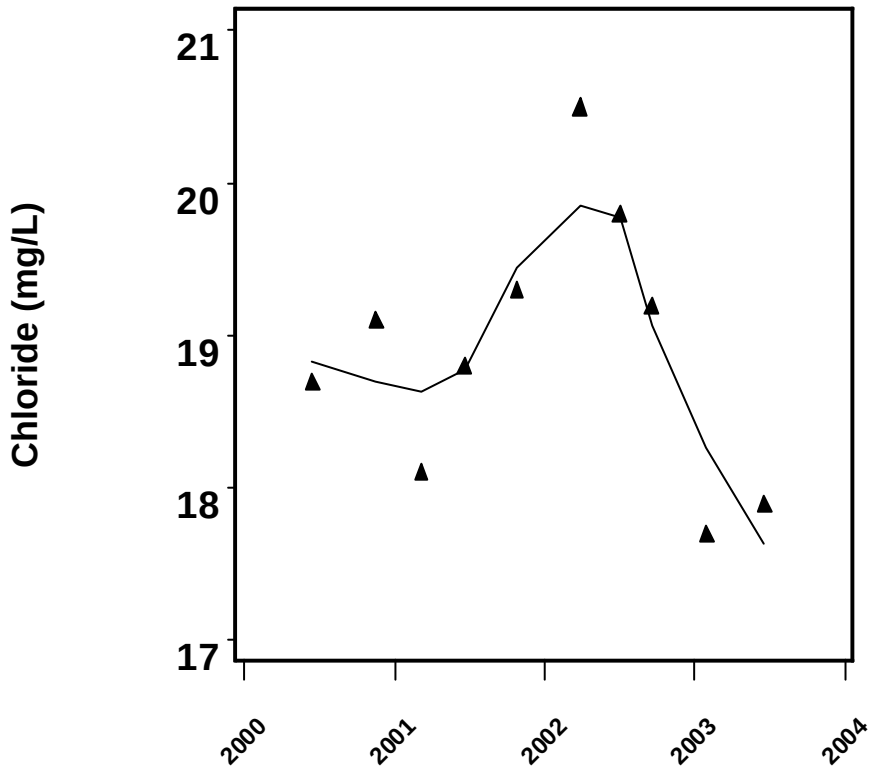


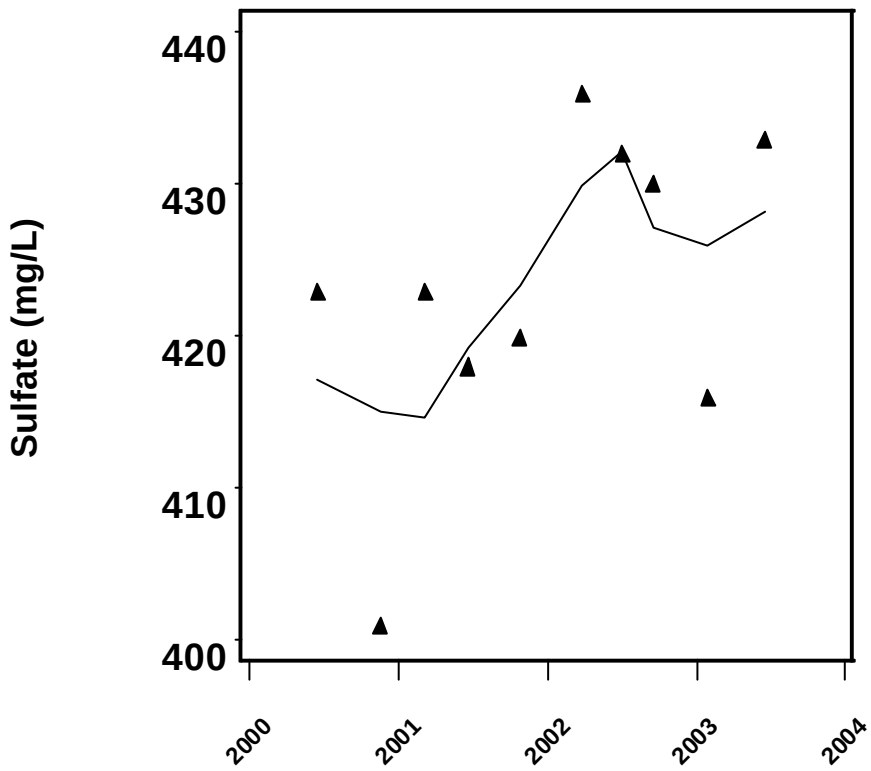
Appendix B-26. Water Quality Scatterplots Fitted with a LOWESS Curve for HILLS CO ASR SMW-1.



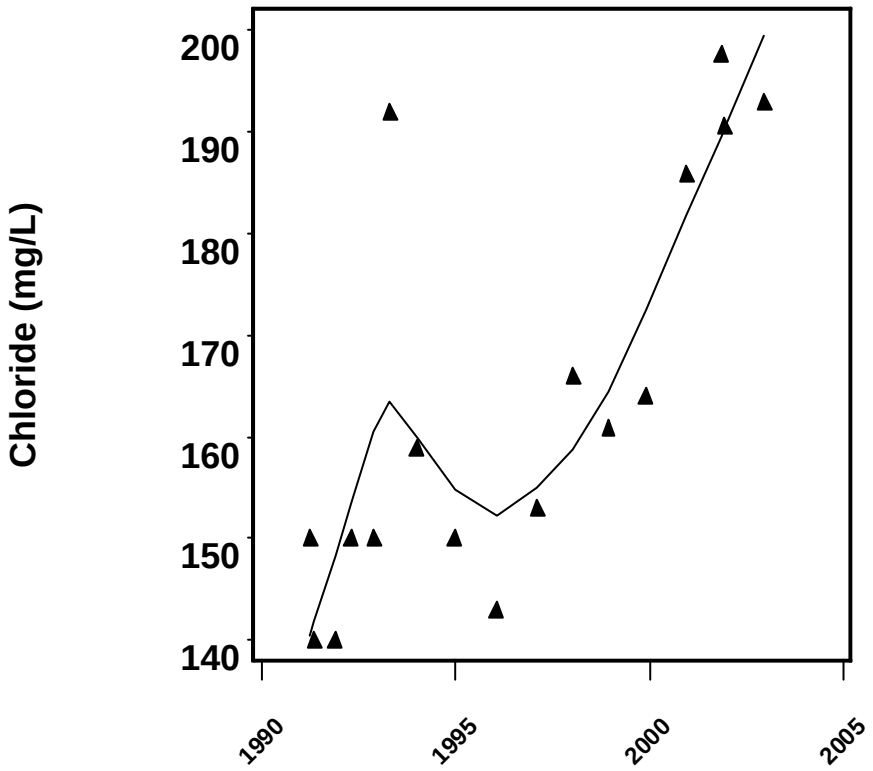


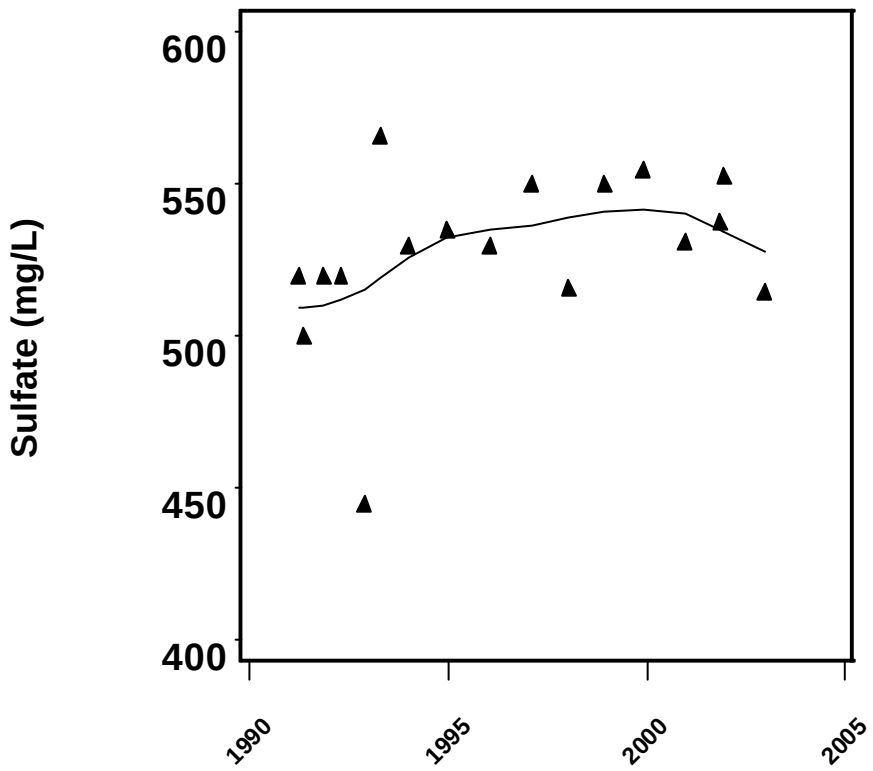
Appendix B-27. Water Quality Scatterplots Fitted with a LOWESS Curve for JAMES BYRD NEAR RIVERVIEW.



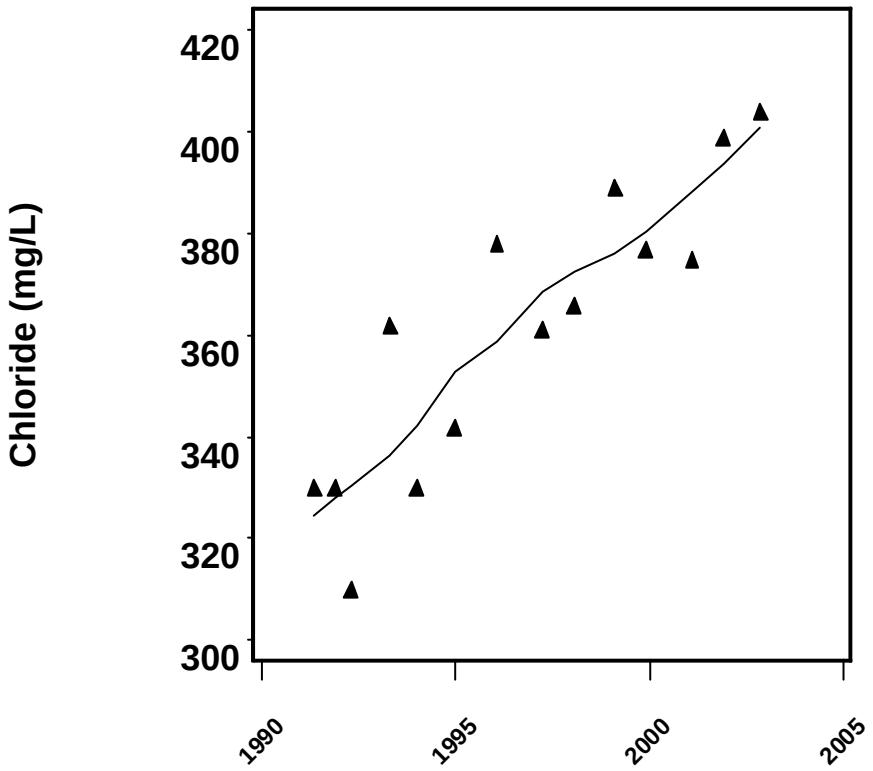


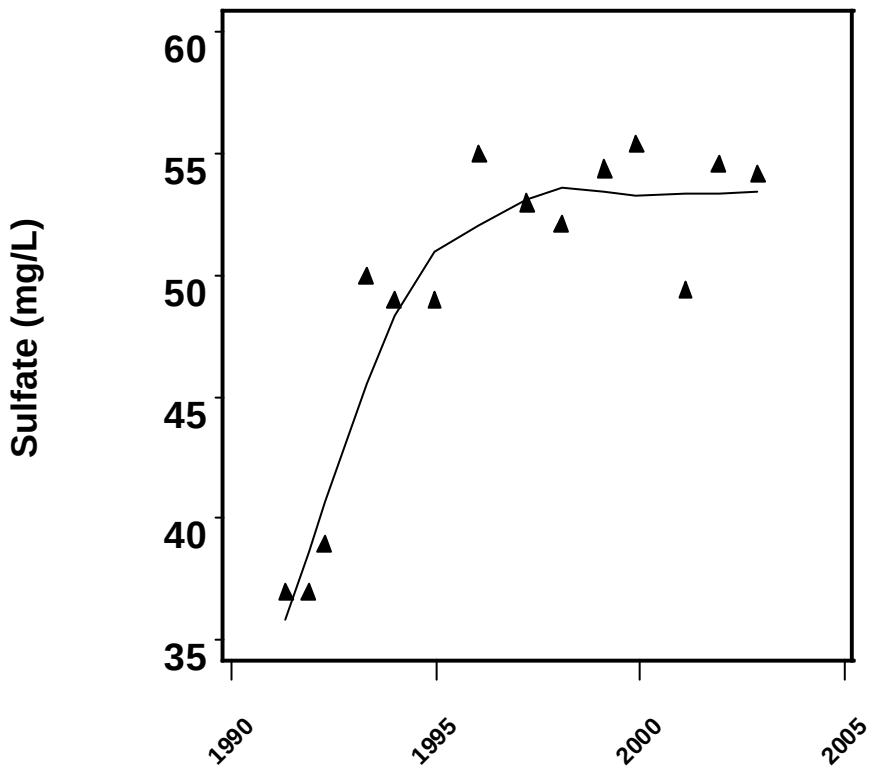
Appendix B-28. Water Quality Scatterplots Fitted with a LOWESS Curve for KME 02 WELL.



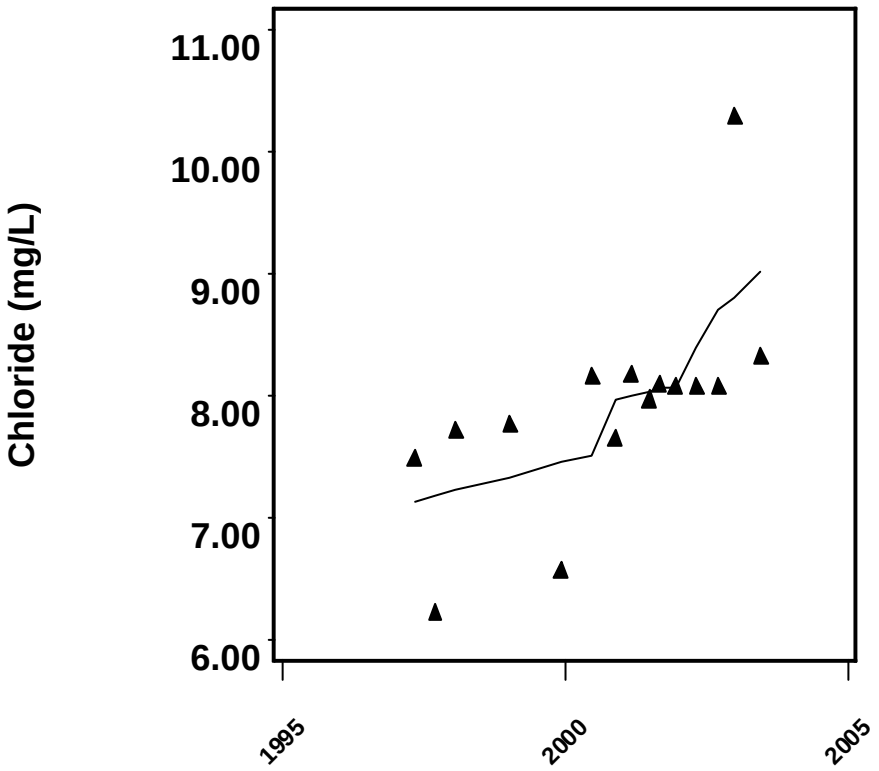


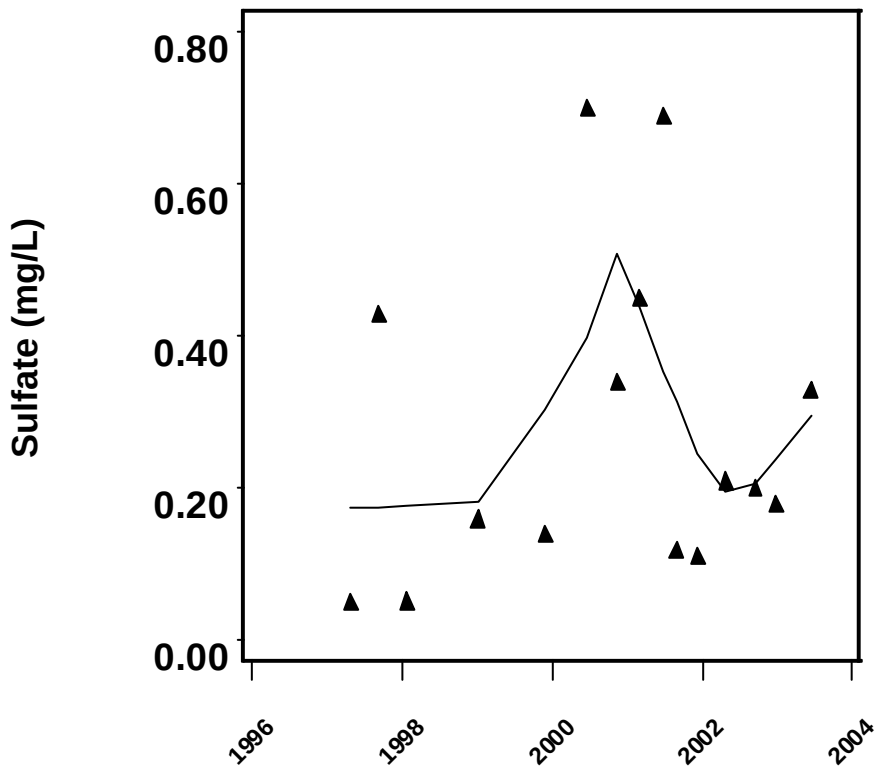
Appendix B-29. Water Quality Scatterplots Fitted with a LOWESS Curve for KUSHMER WELL AT ADAMSVILLE.



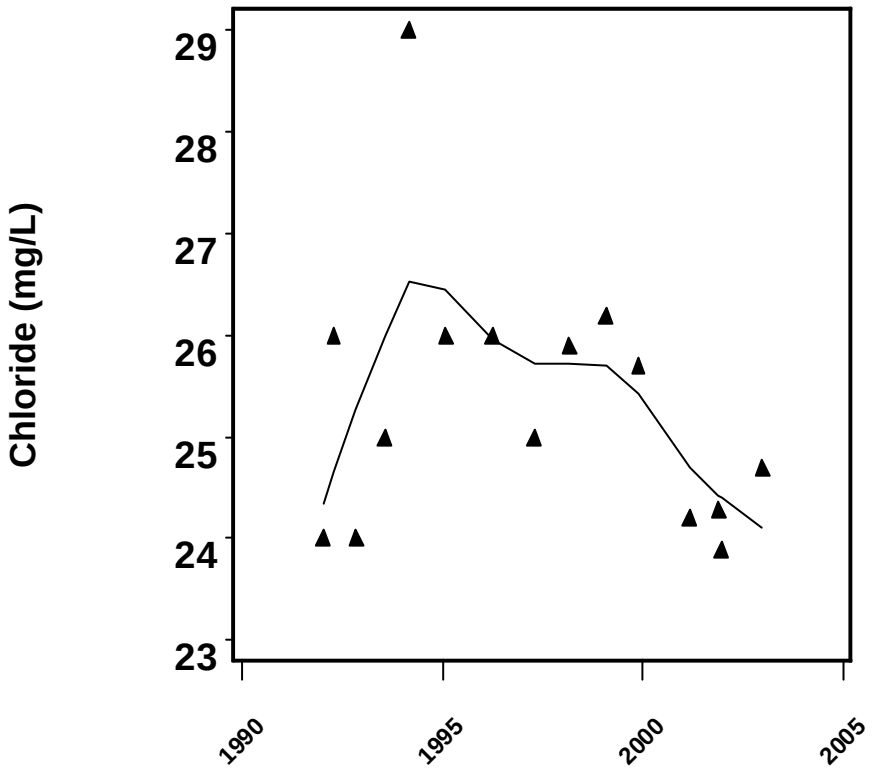


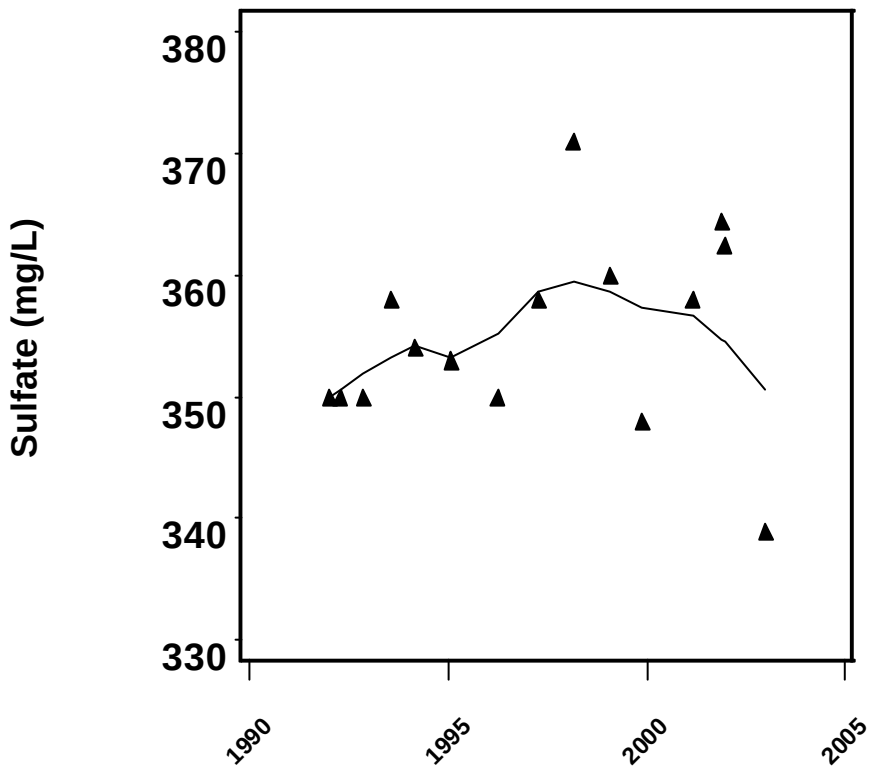
Appendix B-30. Water Quality Scatterplots Fitted with a LOWESS Curve for LIBRARY DP WL ON PAULA.



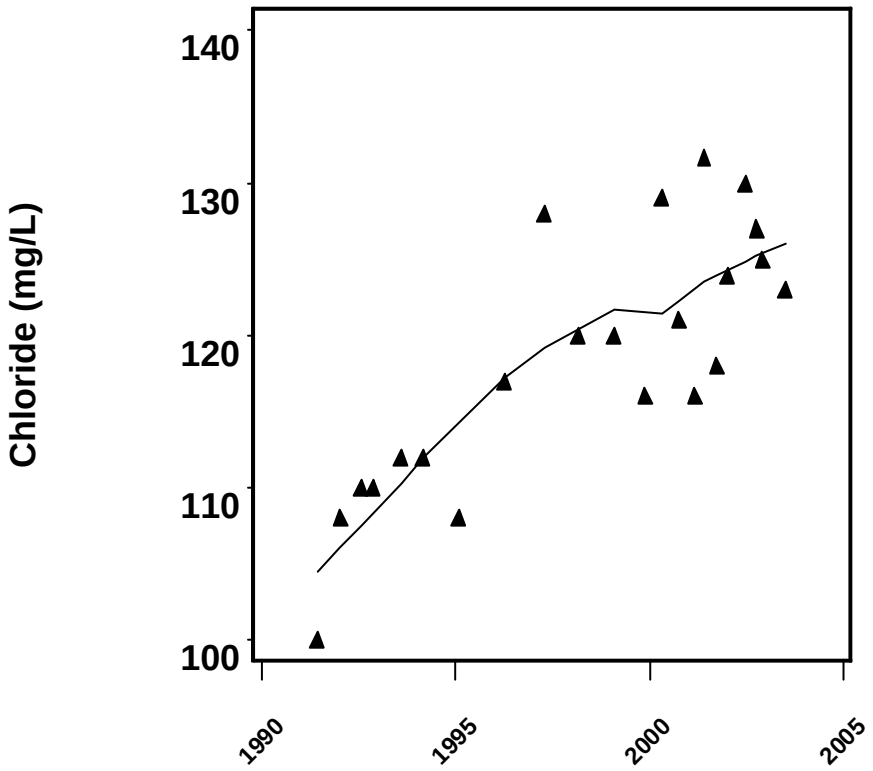


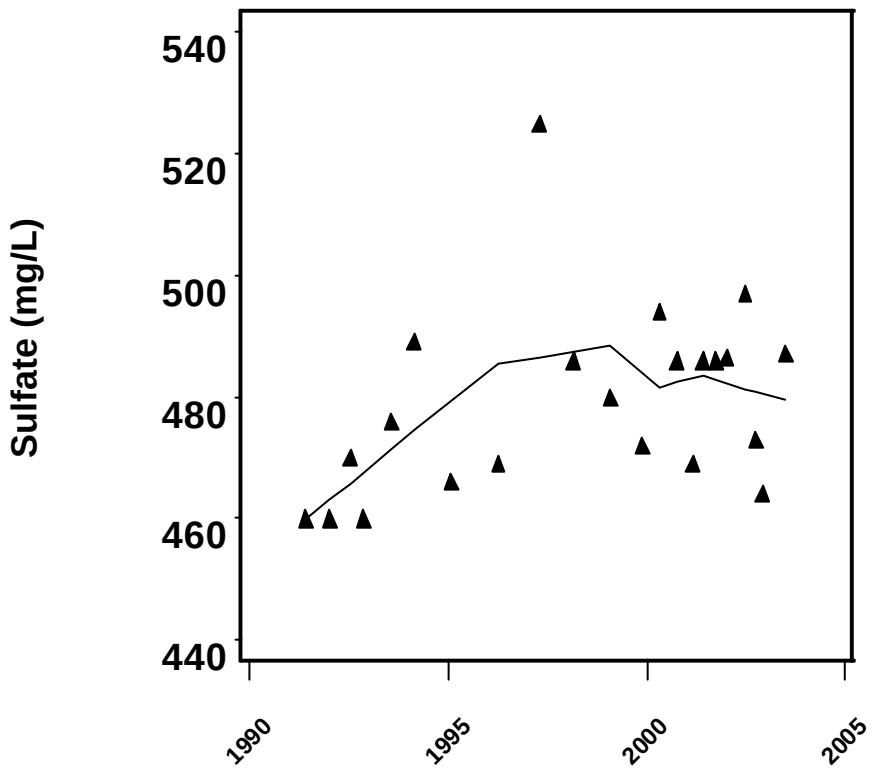
Appendix B-31. Water Quality Scatterplots Fitted with a LOWESS Curve for LITTLE MANATEE RIVER WELL.



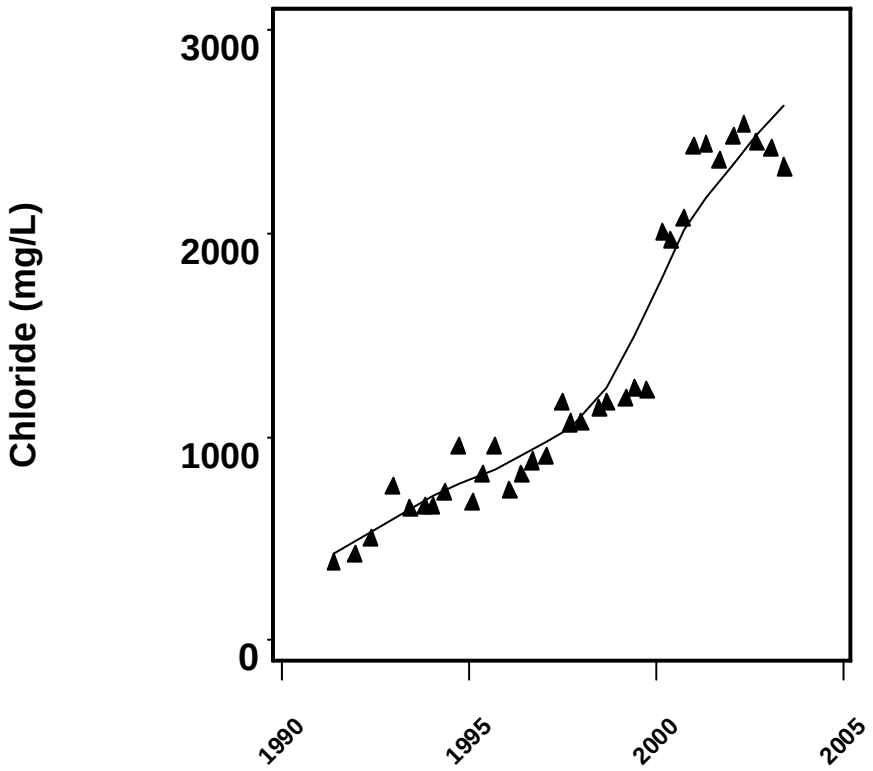


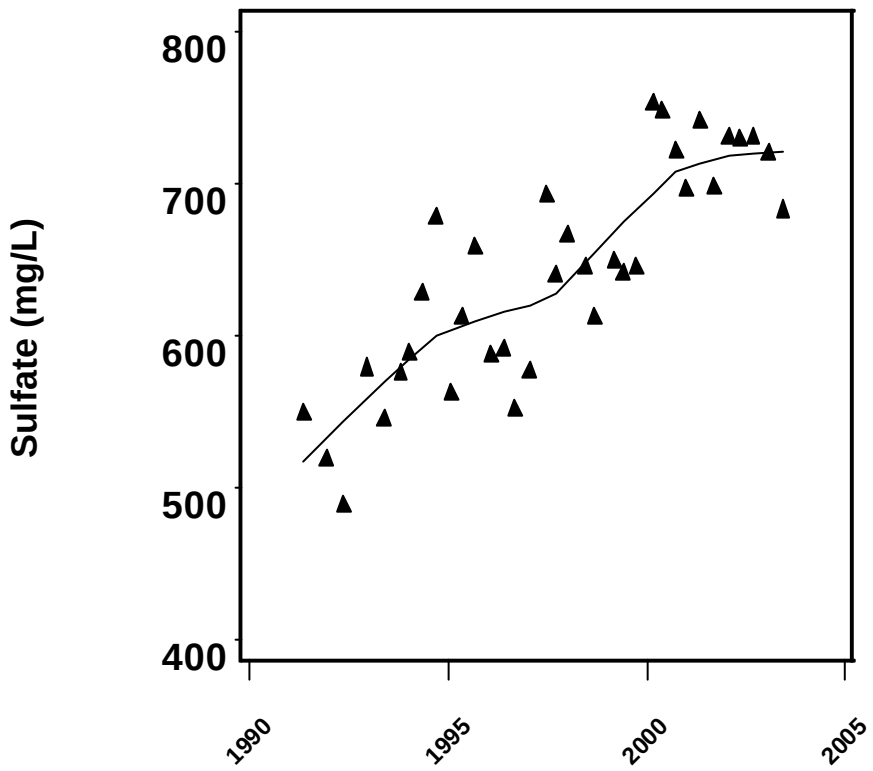
Appendix B-32. Water Quality Scatterplots Fitted with a LOWESS Curve for MACARTHUR TRACT 10H.



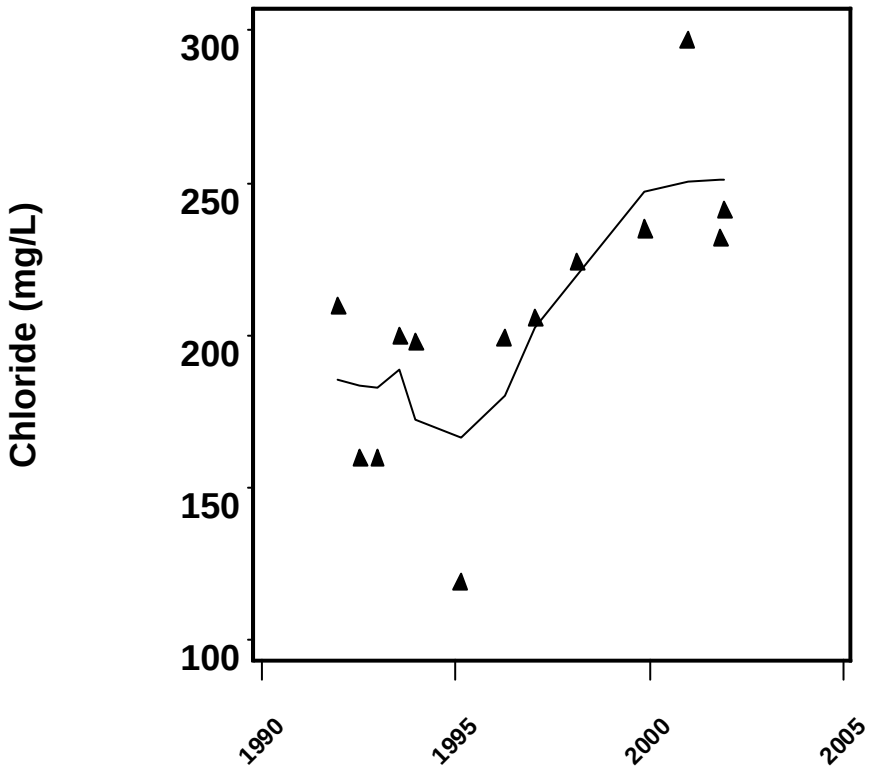


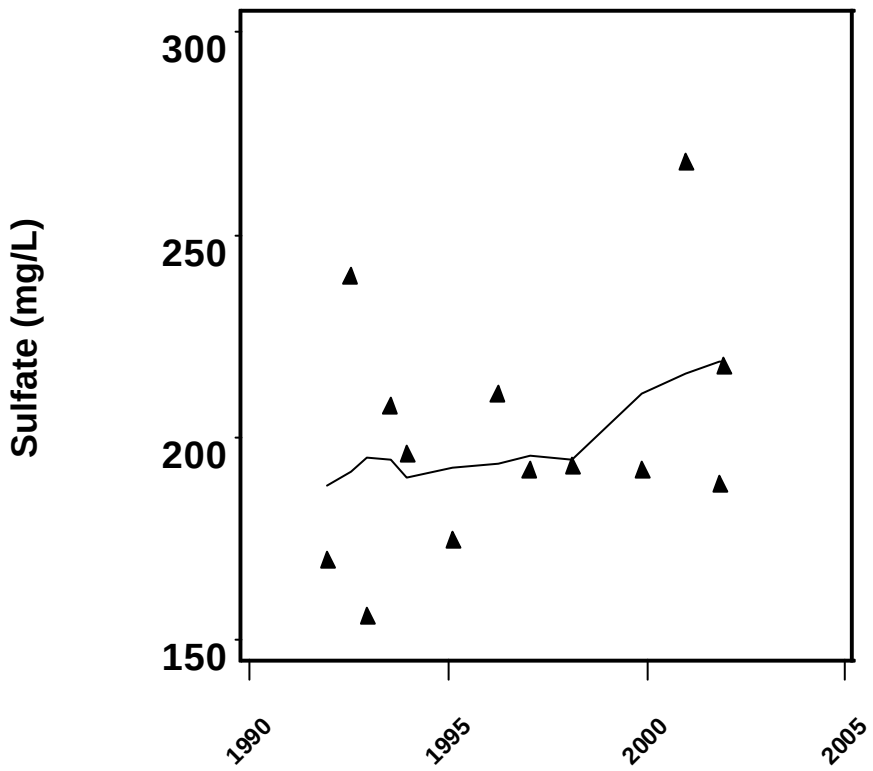
Appendix B-33. Water Quality Scatterplots Fitted with a LOWESS Curve for MACARTHUR TACT 14FS.



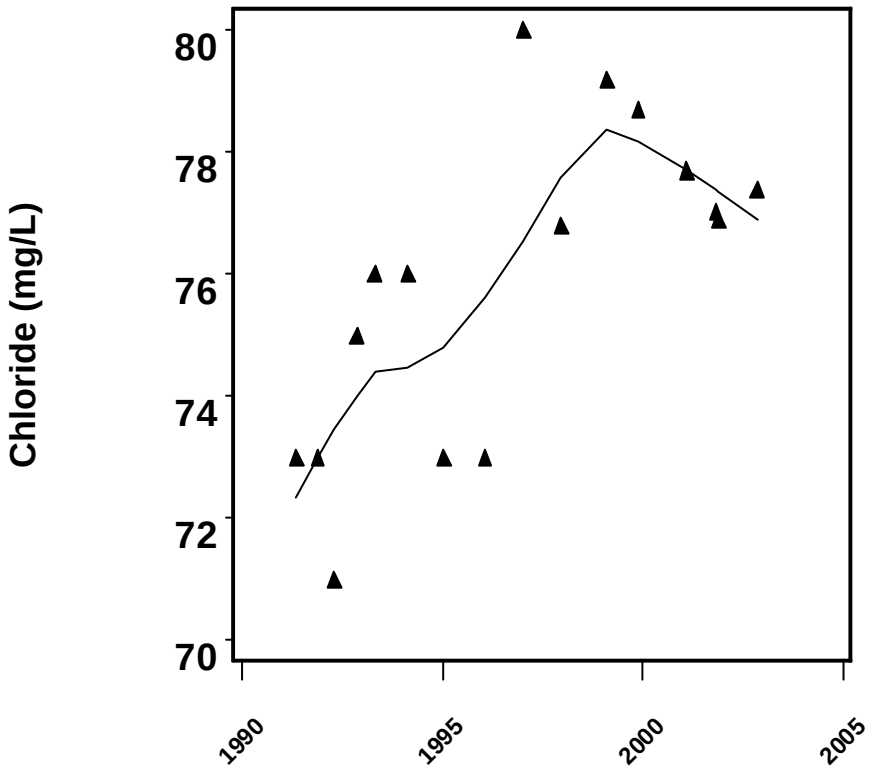


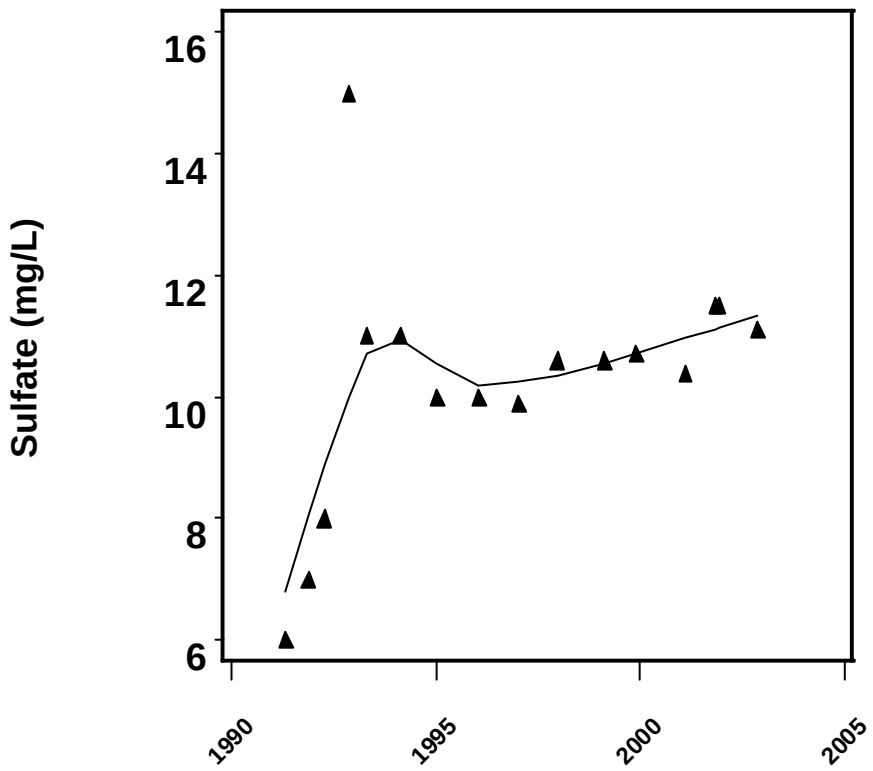
Appendix B-34. Water Quality Scatterplots Fitted with a LOWESS Curve for MANATEE FRUIT #3.



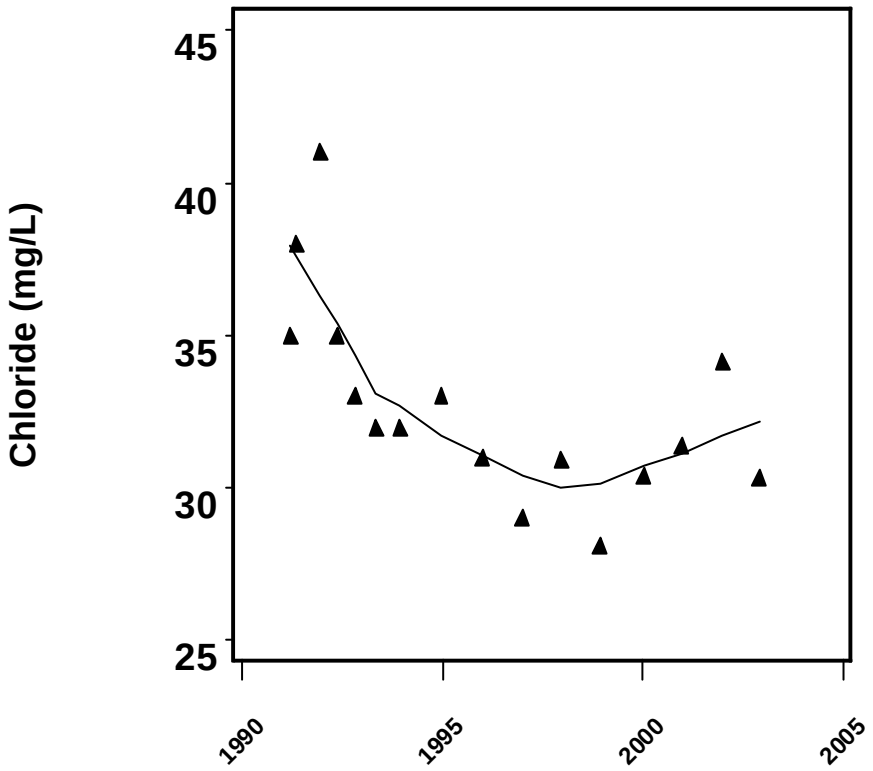


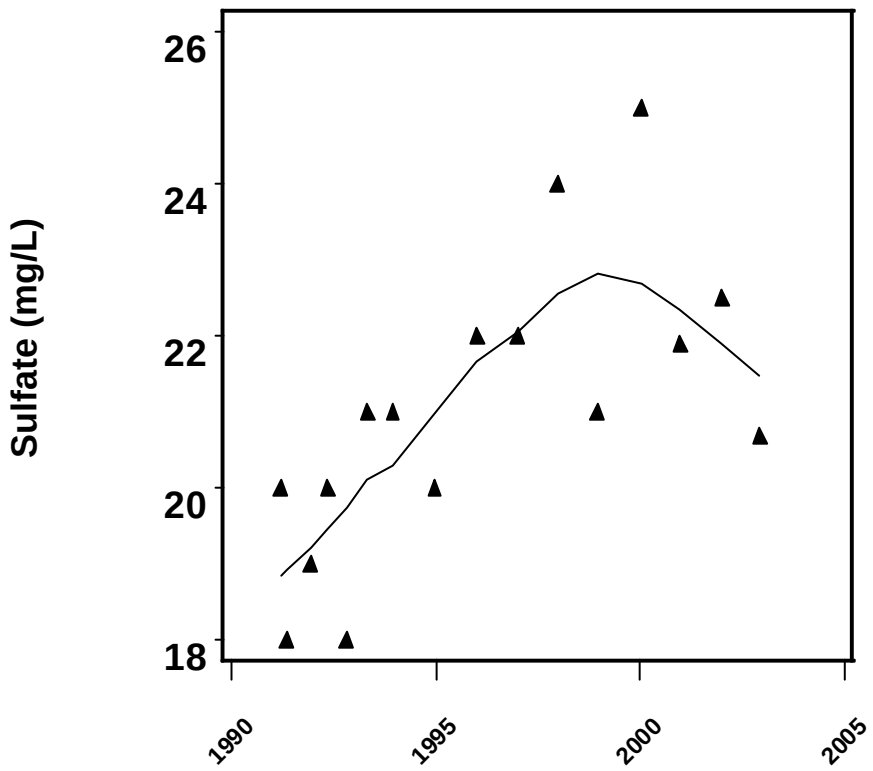
Appendix B-35. Water Quality Scatterplots Fitted with a LOWESS Curve for MANATEE FRUIT-MIDWAY.



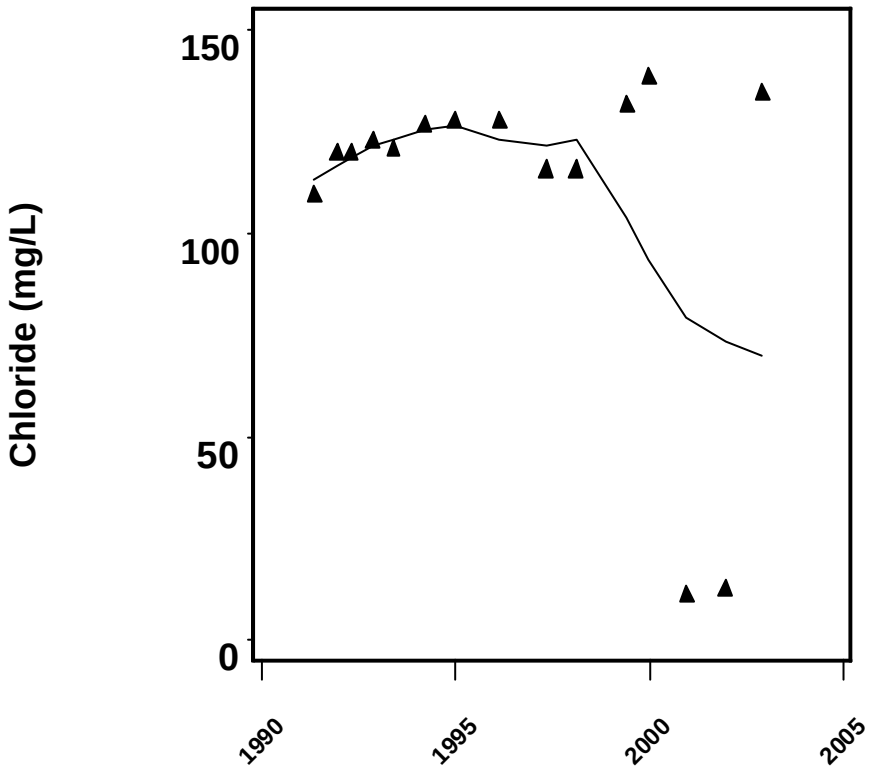


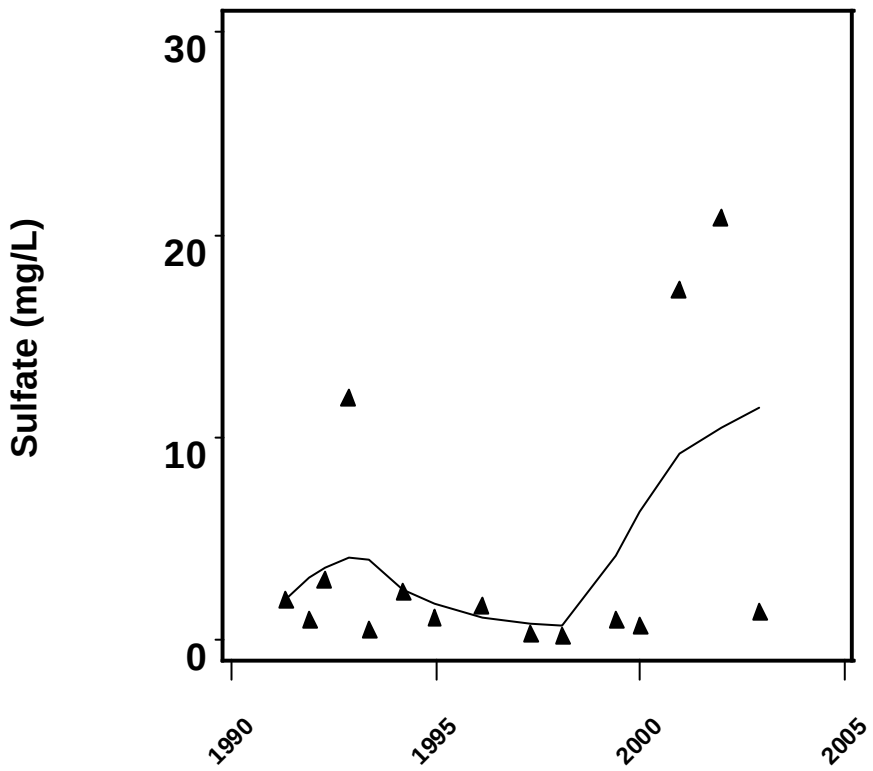
Appendix B-36. Water Quality Scatterplots Fitted with a LOWESS Curve for MARTIN MURPHEY.



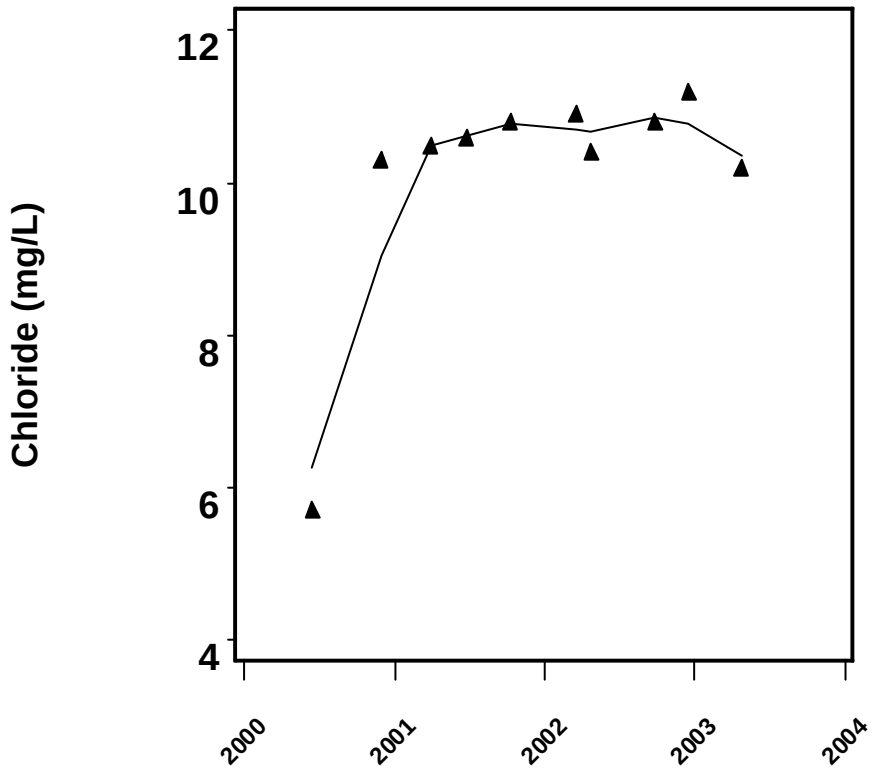


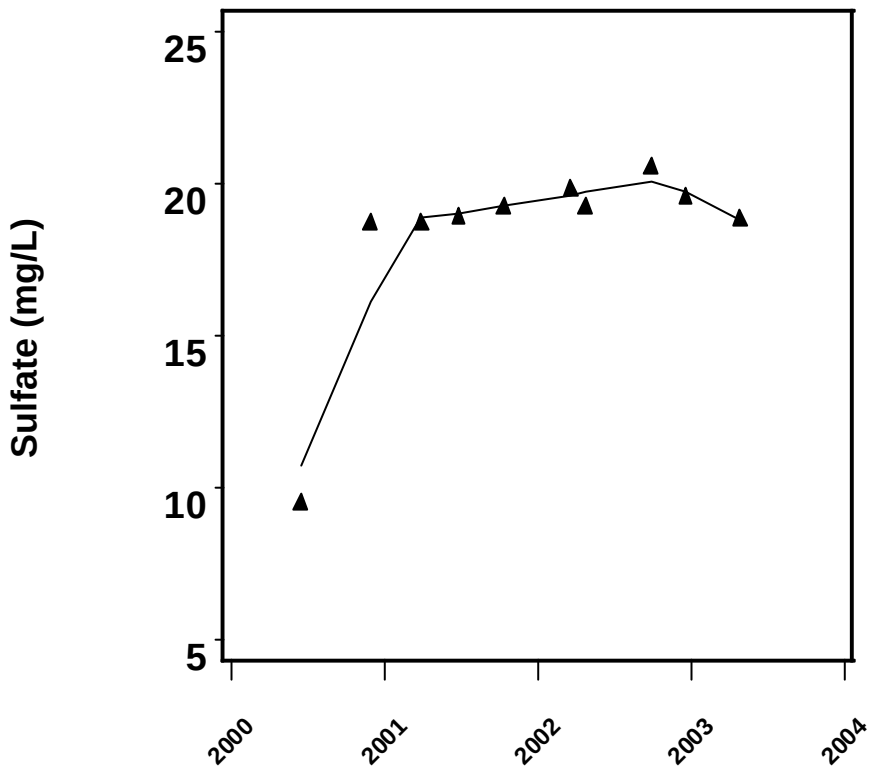
Appendix B-37. Water Quality Scatterplots Fitted with a LOWESS Curve for METHODIST CHURCH.



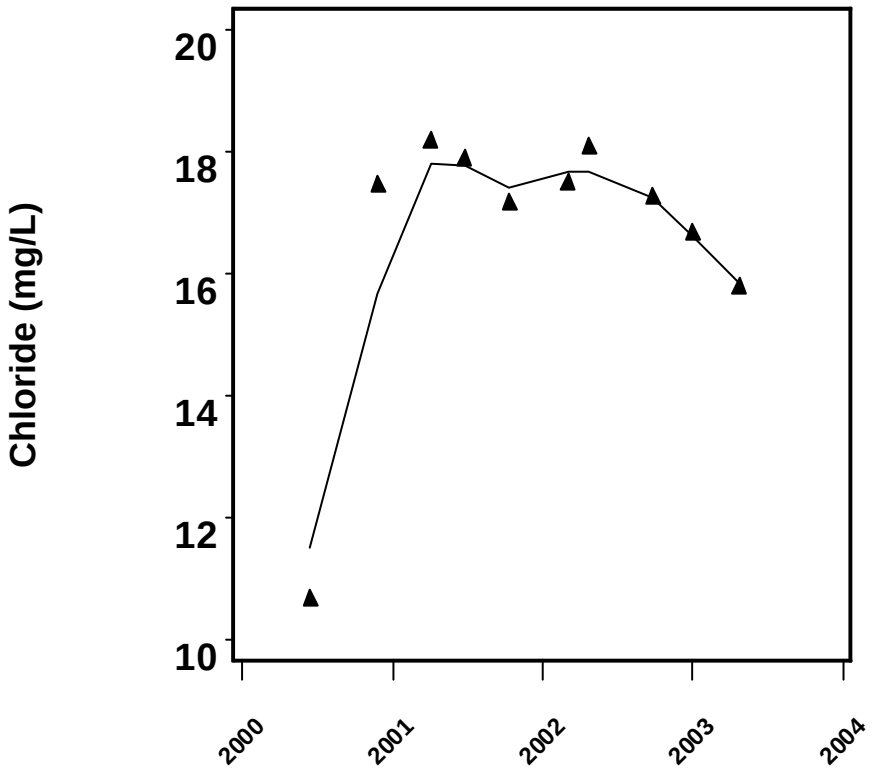


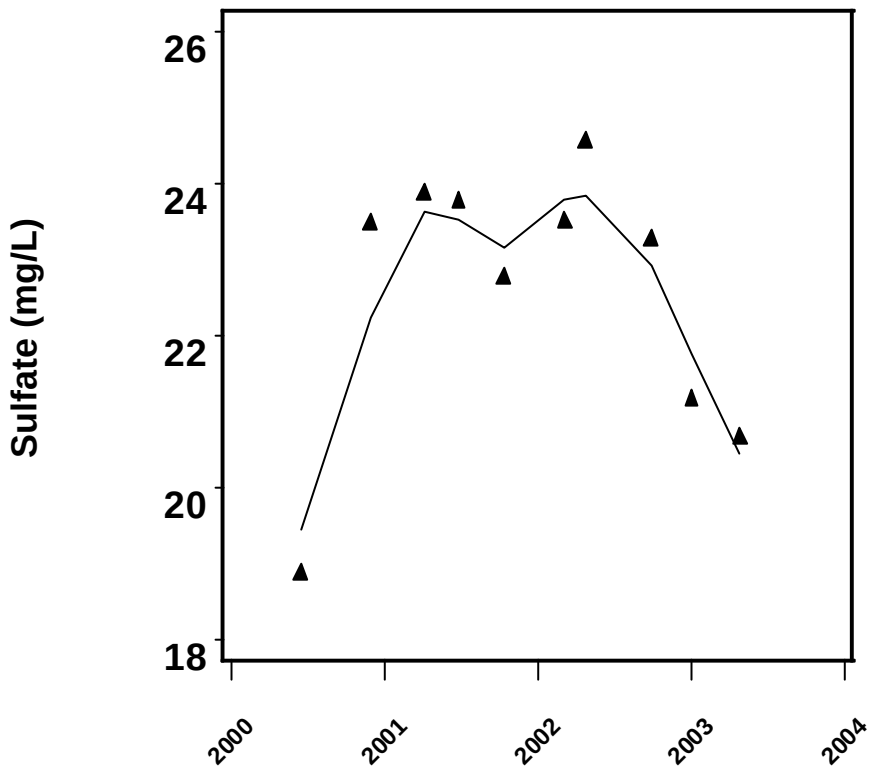
Appendix B-38. Water Quality Scatterplots Fitted with a LOWESS Curve for MILLER WELL – KENNETH CITY.



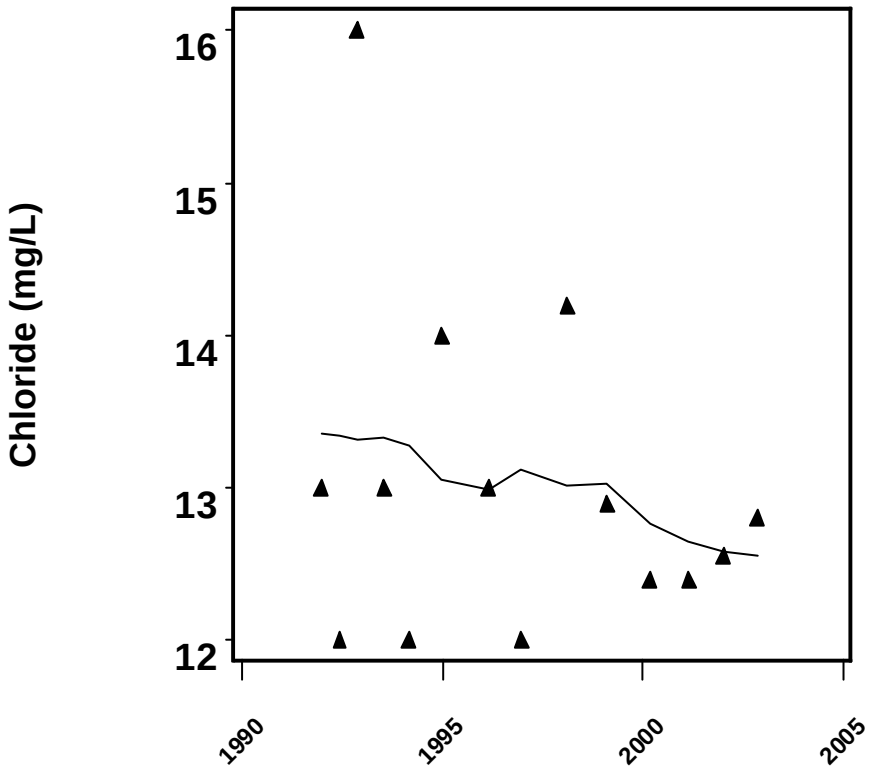


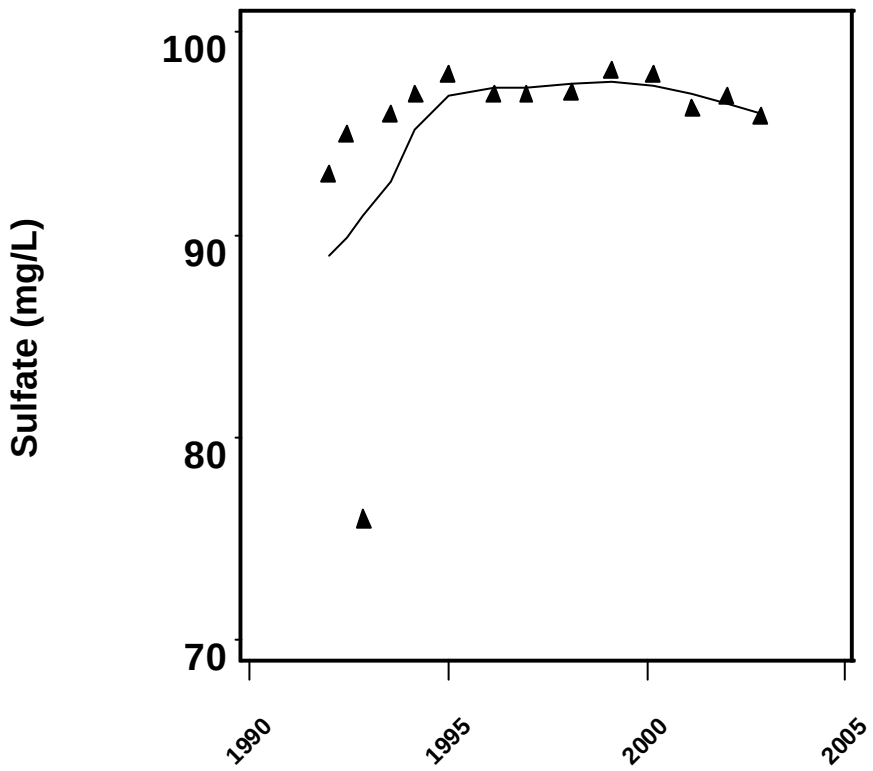
Appendix B-39. Water Quality Scatterplots Fitted with a LOWESS Curve for MOUNTAIN LAKE CORP FL.



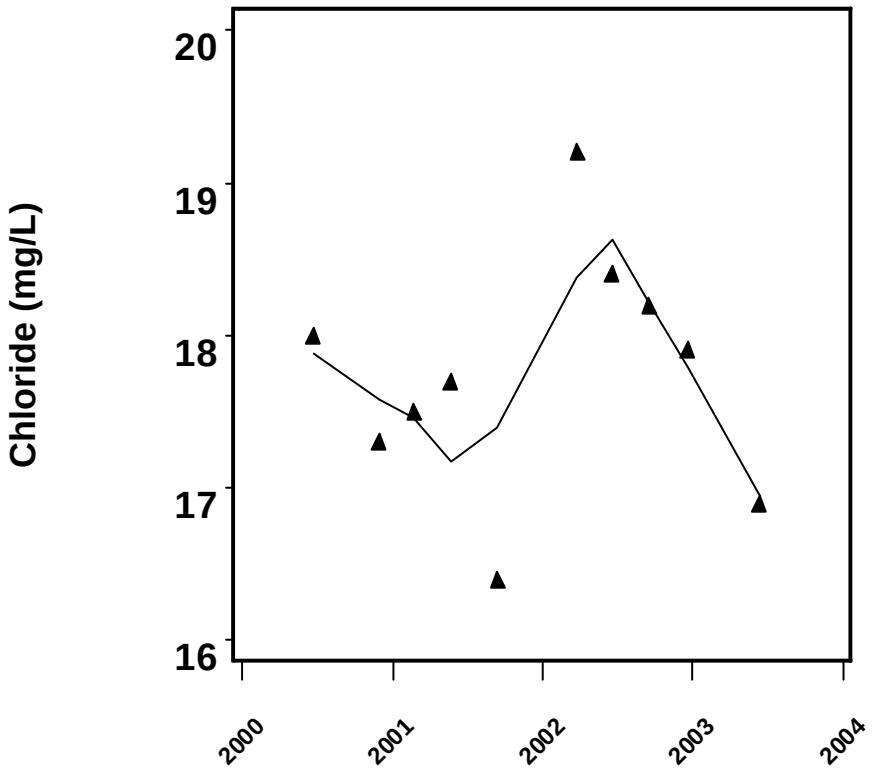


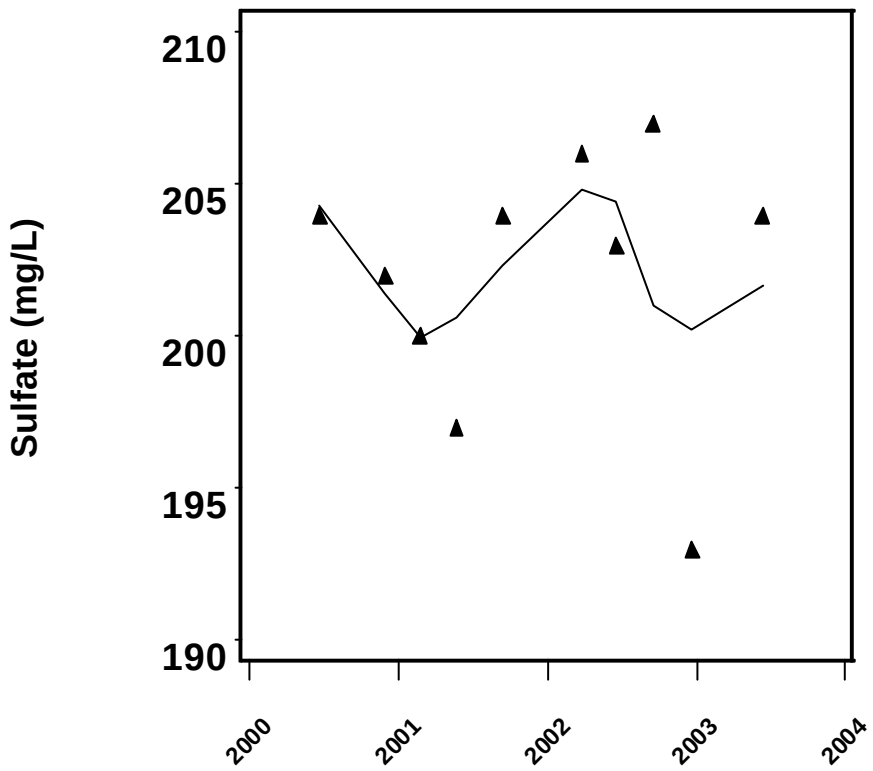
Appendix B-40. Water Quality Scatterplots Fitted with a LOWESS Curve for MURRAY ROAD FL.



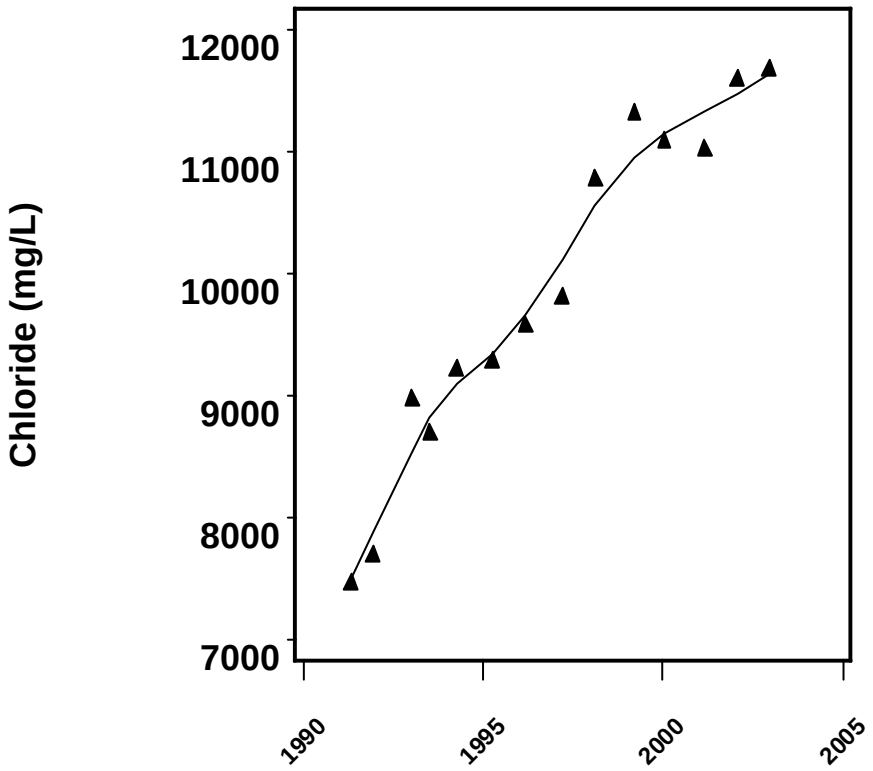


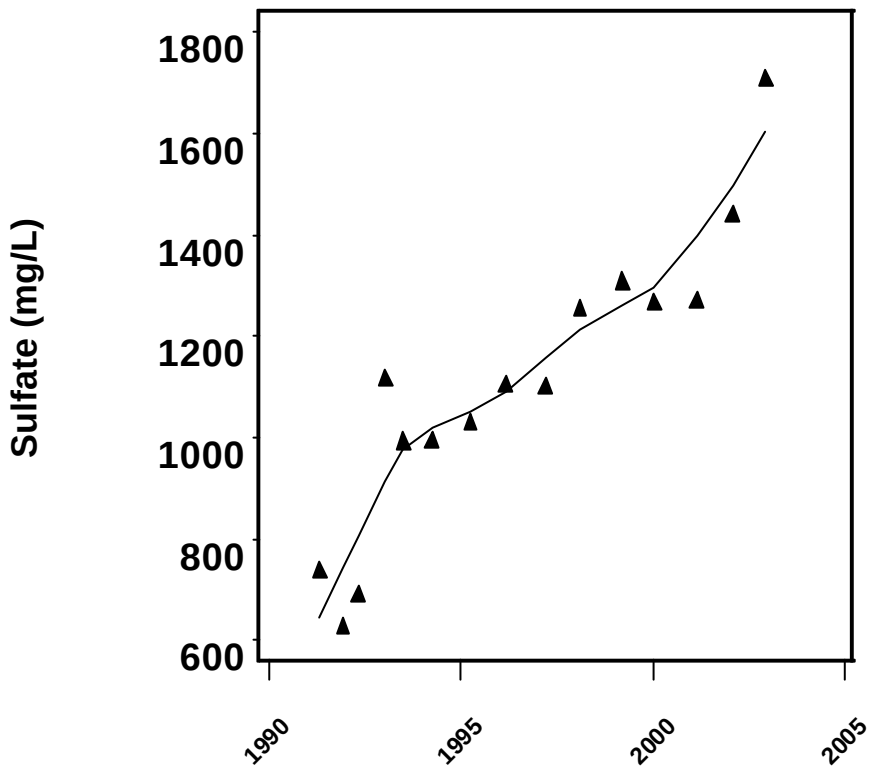
Appendix B-41. Water Quality Scatterplots Fitted with a LOWESS Curve for MYAKKA HEAD #5 USGS.



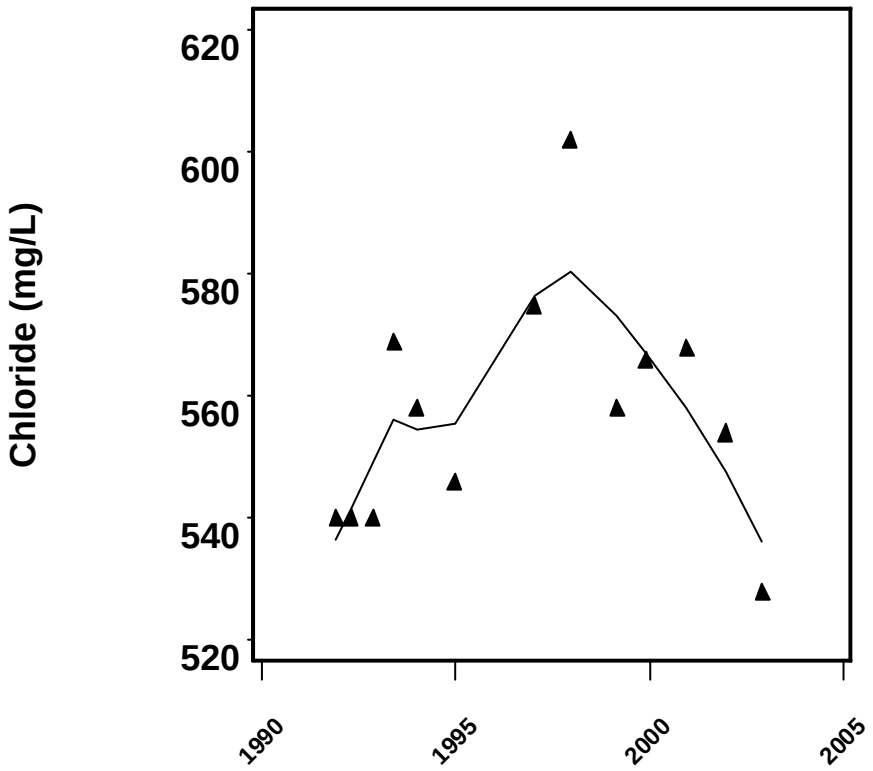


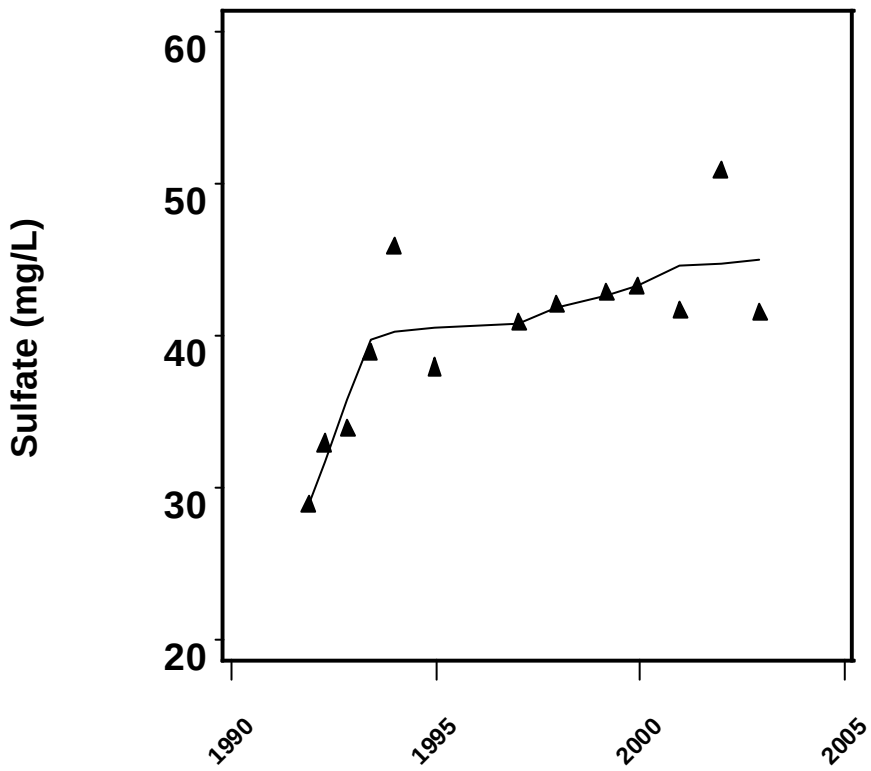
Appendix B-42. Water Quality Scatterplots Fitted with a LOWESS Curve for N CO. TREAT. OLD SUP.



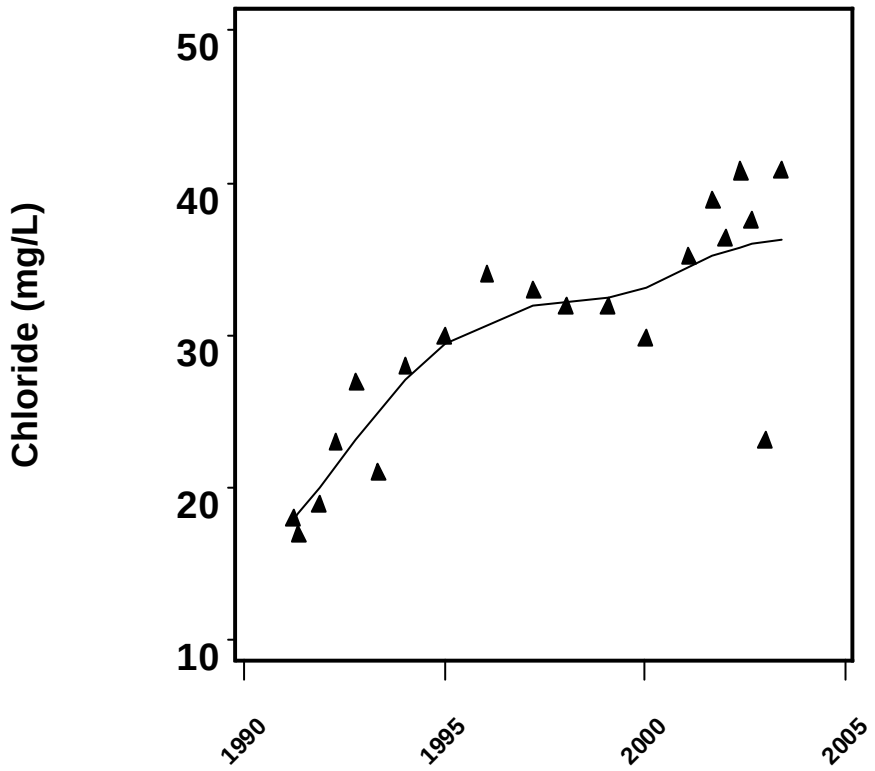


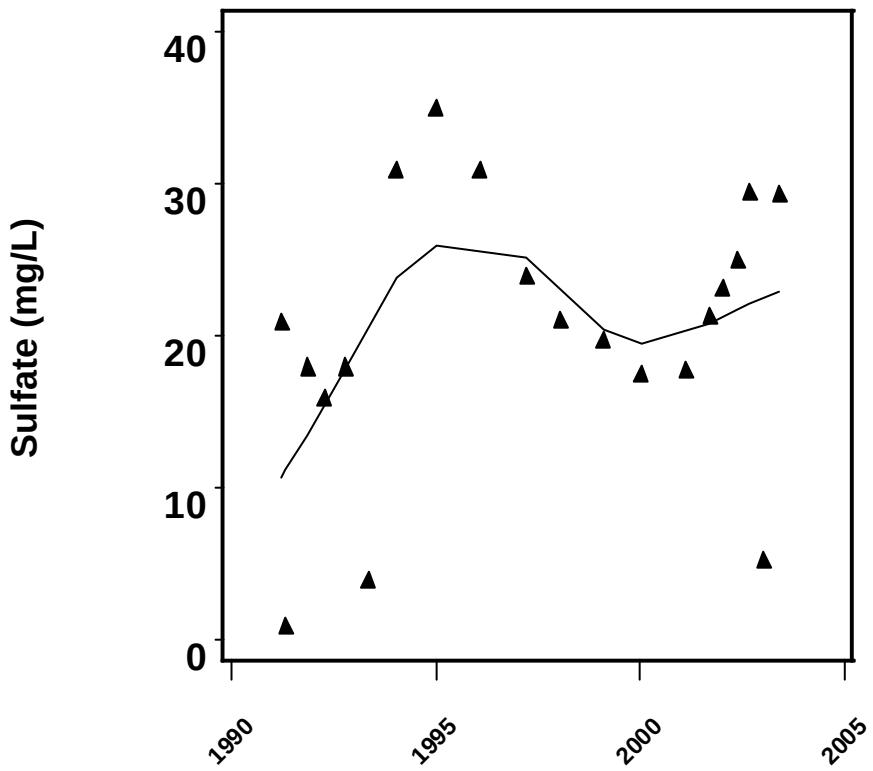
Appendix B-43. Water Quality Scatterplots Fitted with a LOWESS Curve for NORHTEAST INJECTION B-11.



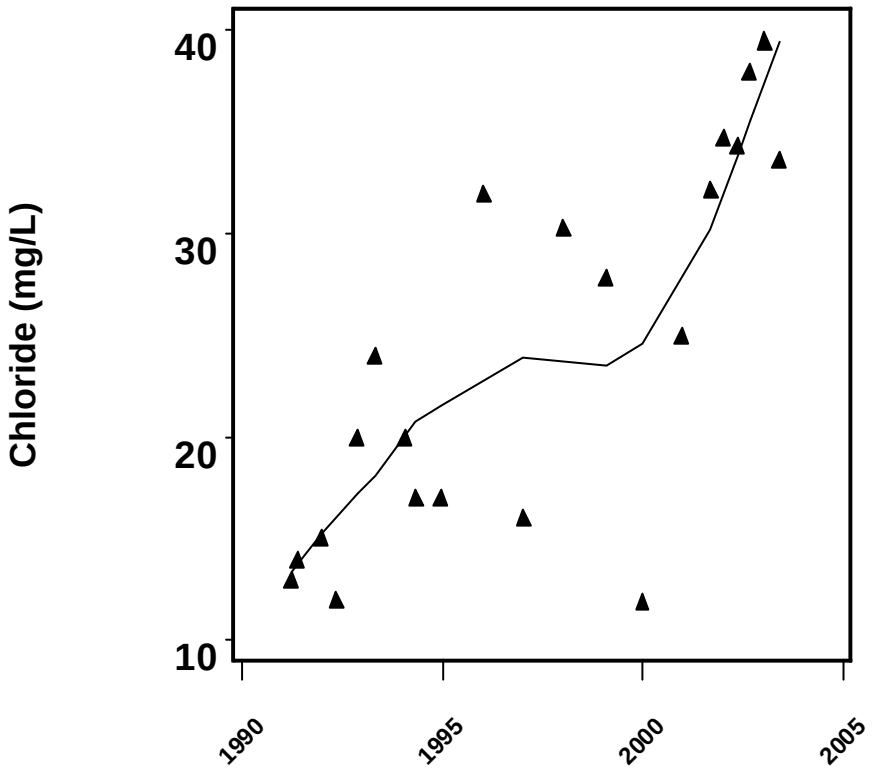


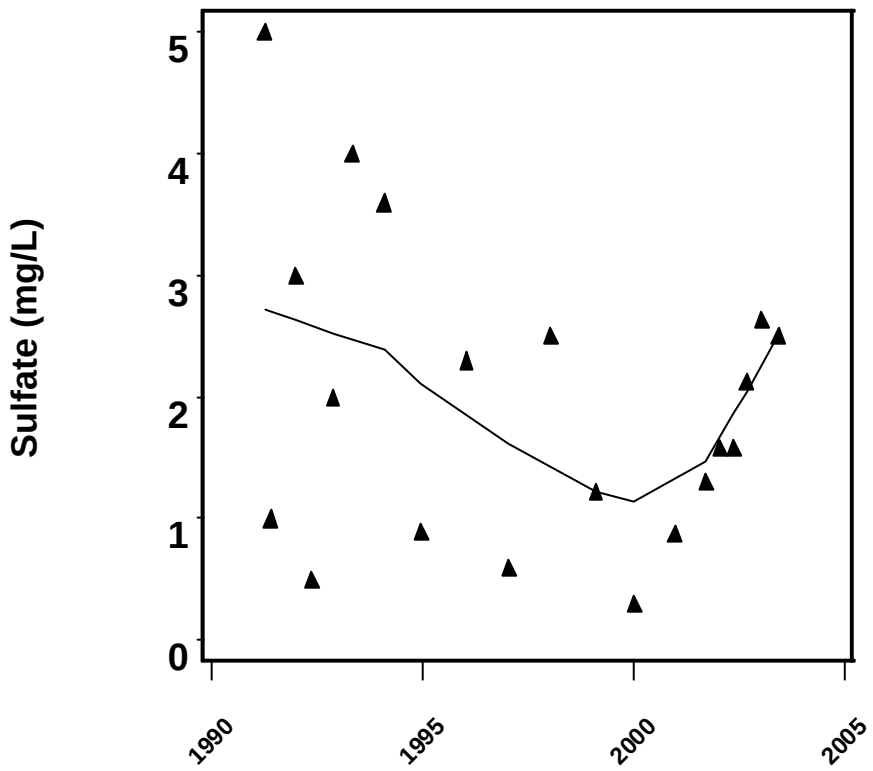
Appendix B-44. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP 18-F.



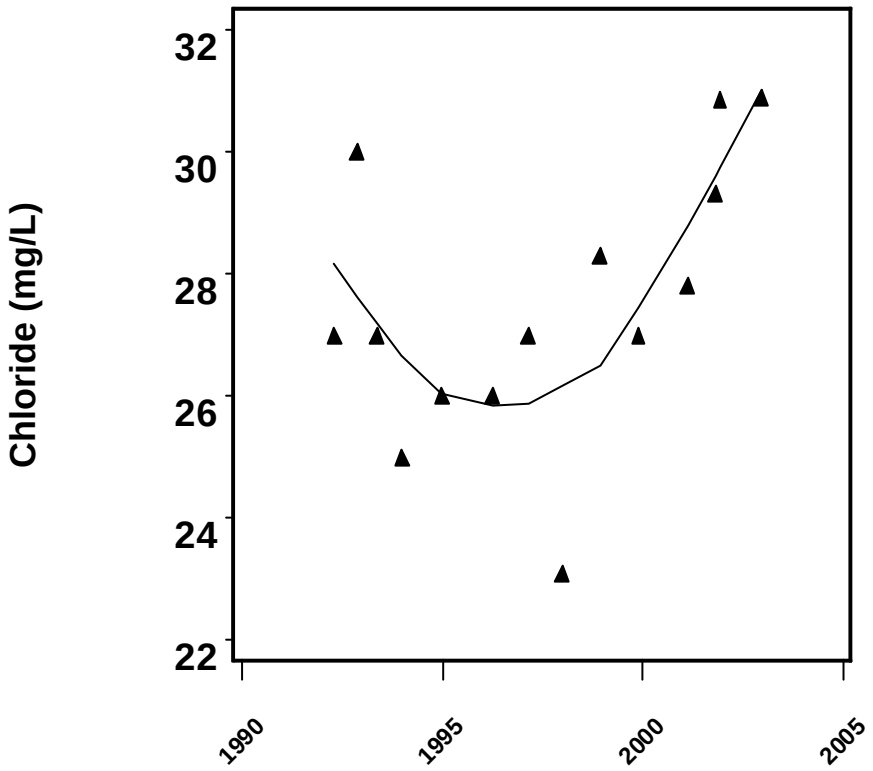


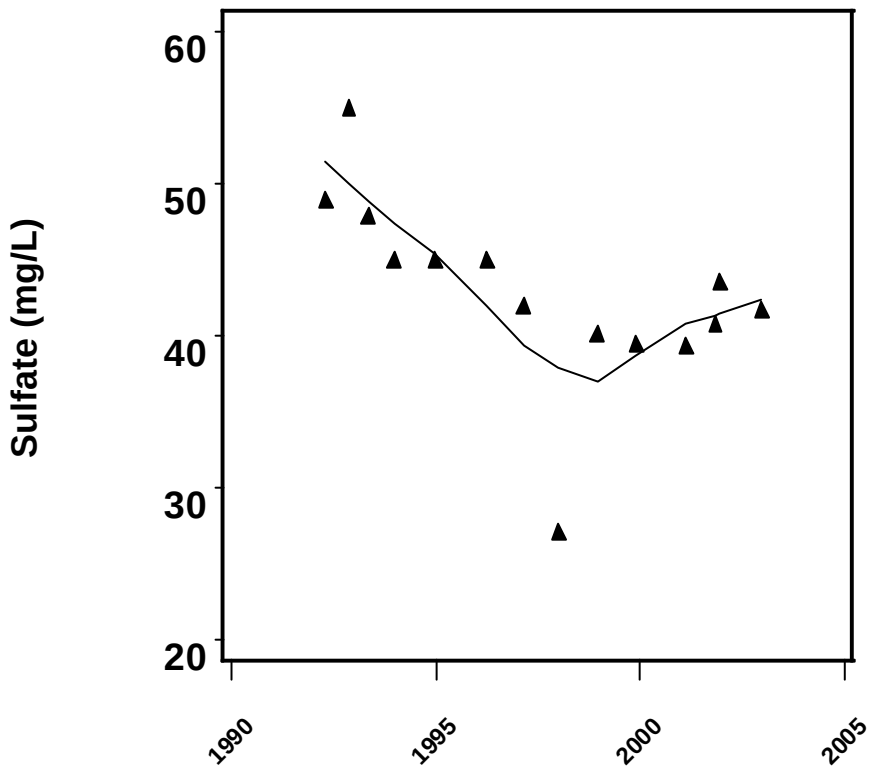
Appendix B-45. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-2.



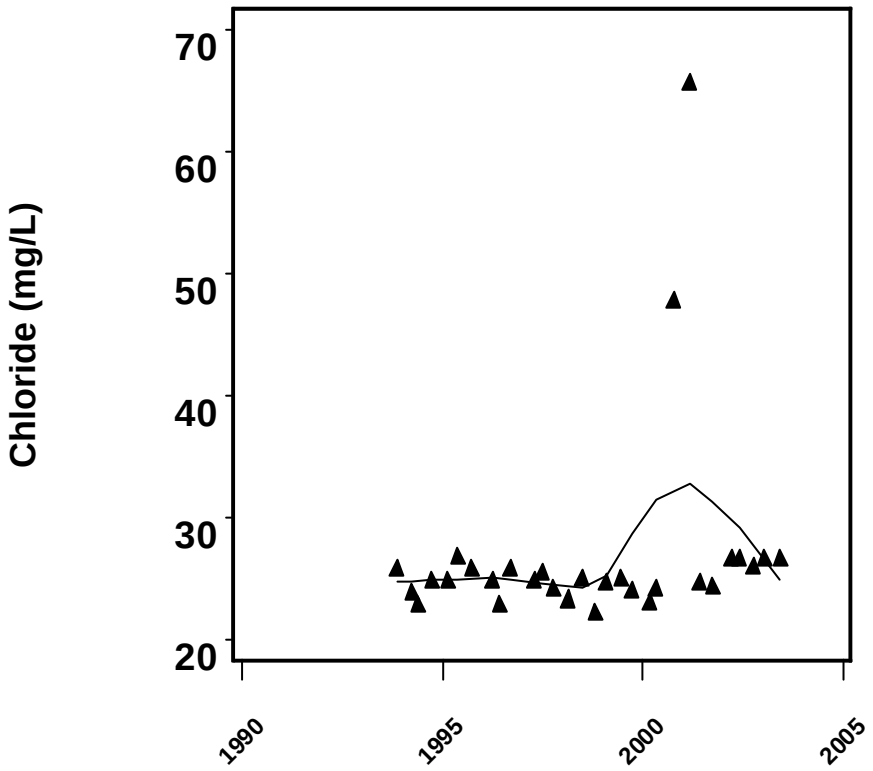


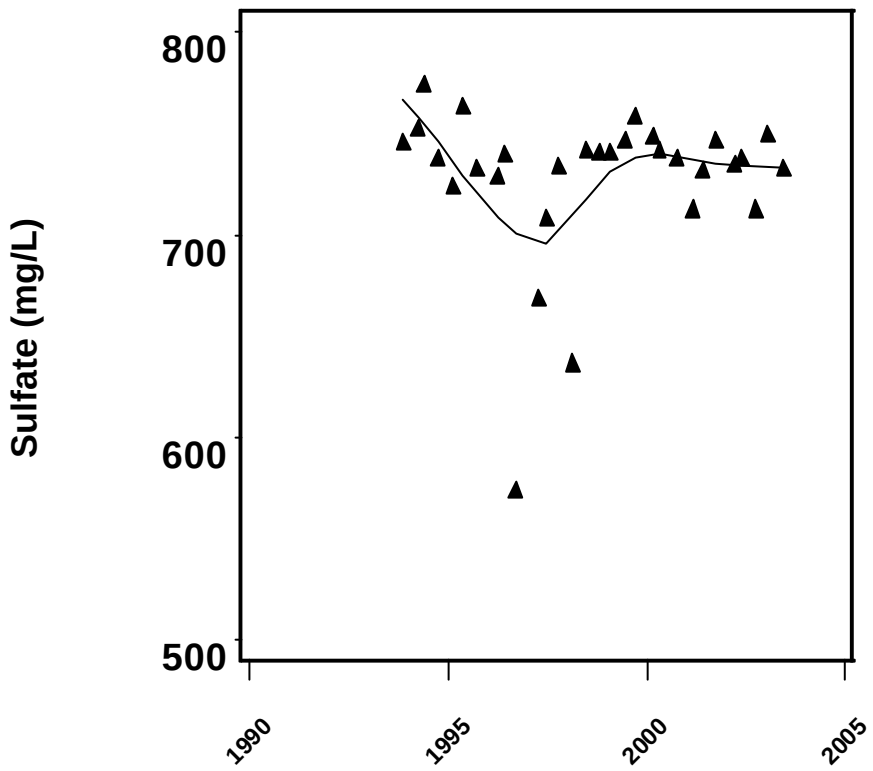
Appendix B-46. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-3.



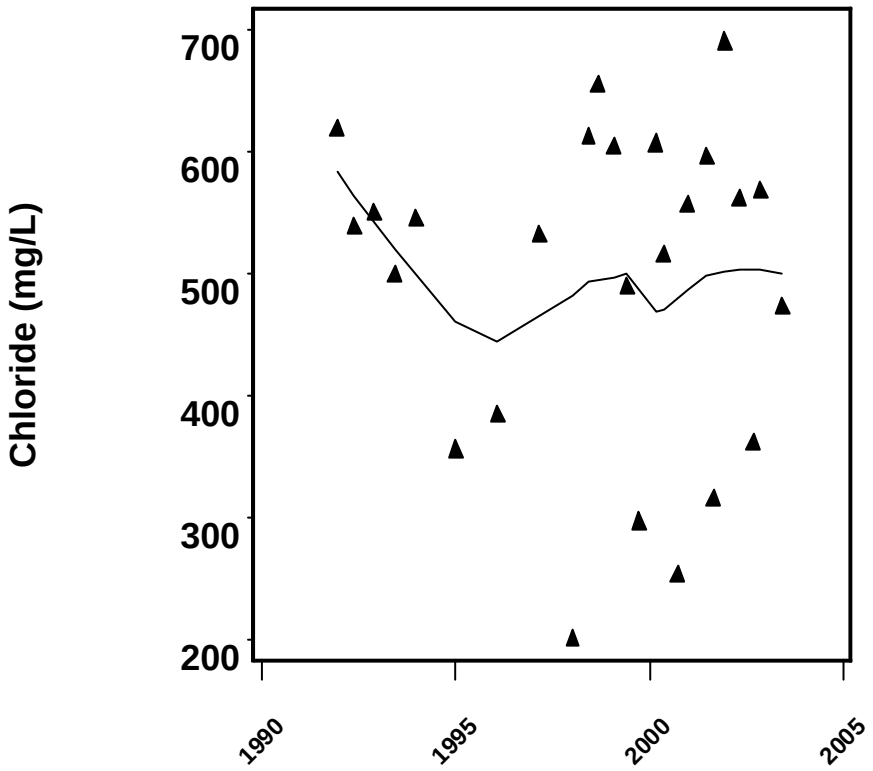


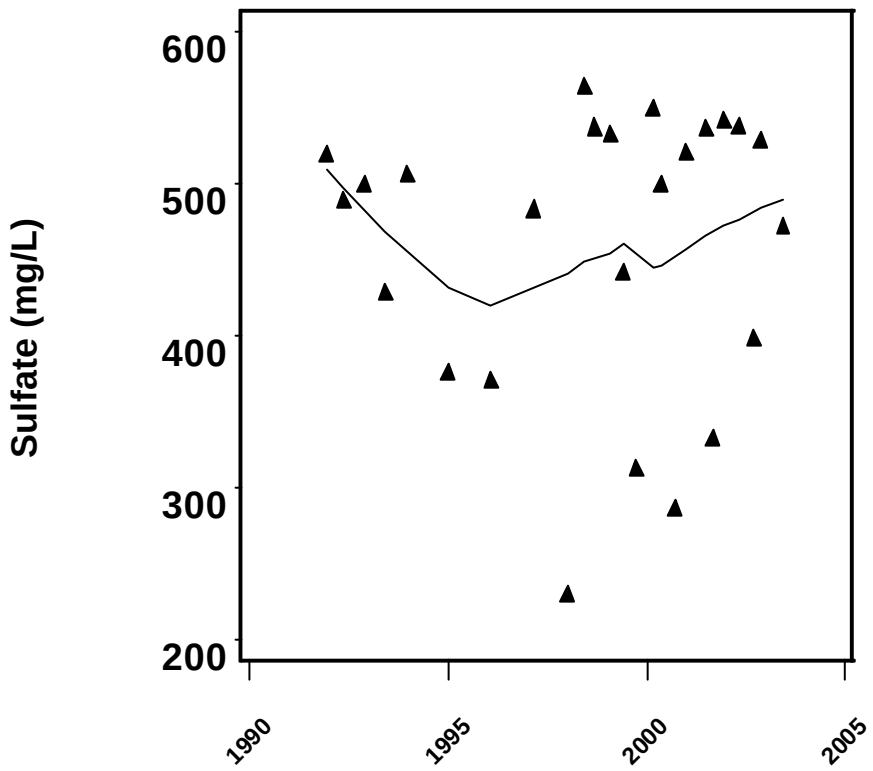
Appendix B-47. Water Quality Scatterplots Fitted with a LOWESS Curve for OAKRIDGE #46 – RIVERCREST.



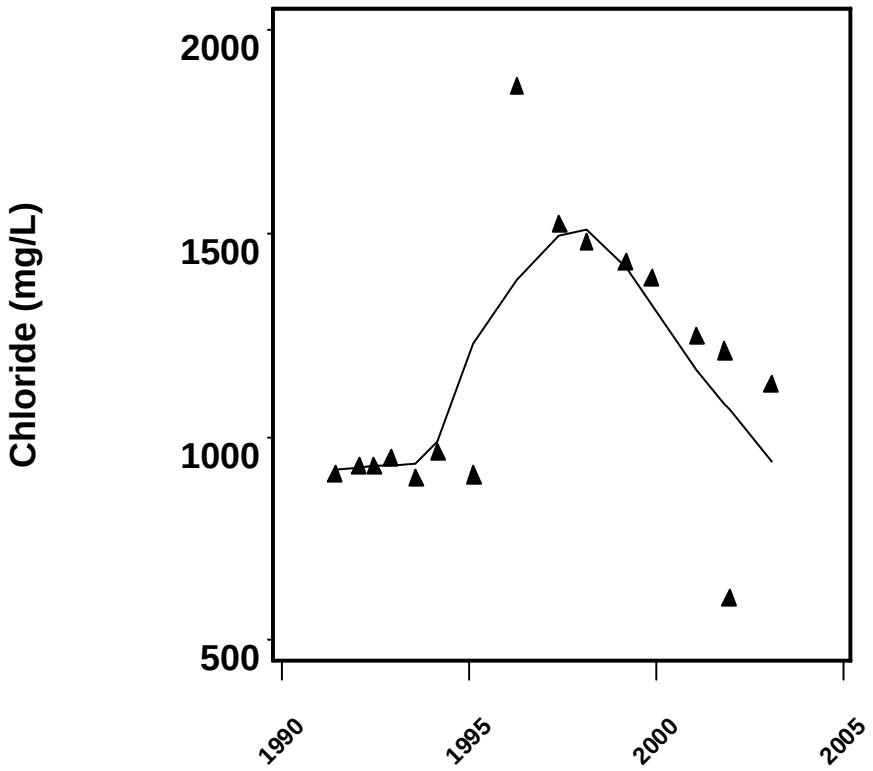


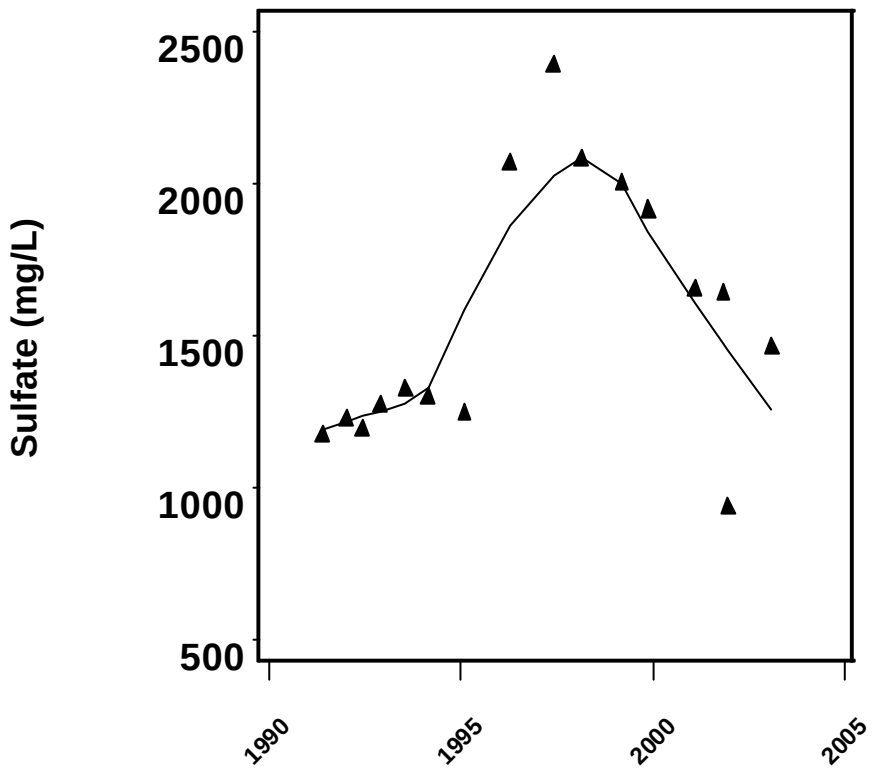
Appendix B-48. Water Quality Scatterplots Fitted with a LOWESS Curve for OM-41 SARASOTA COUNTY.



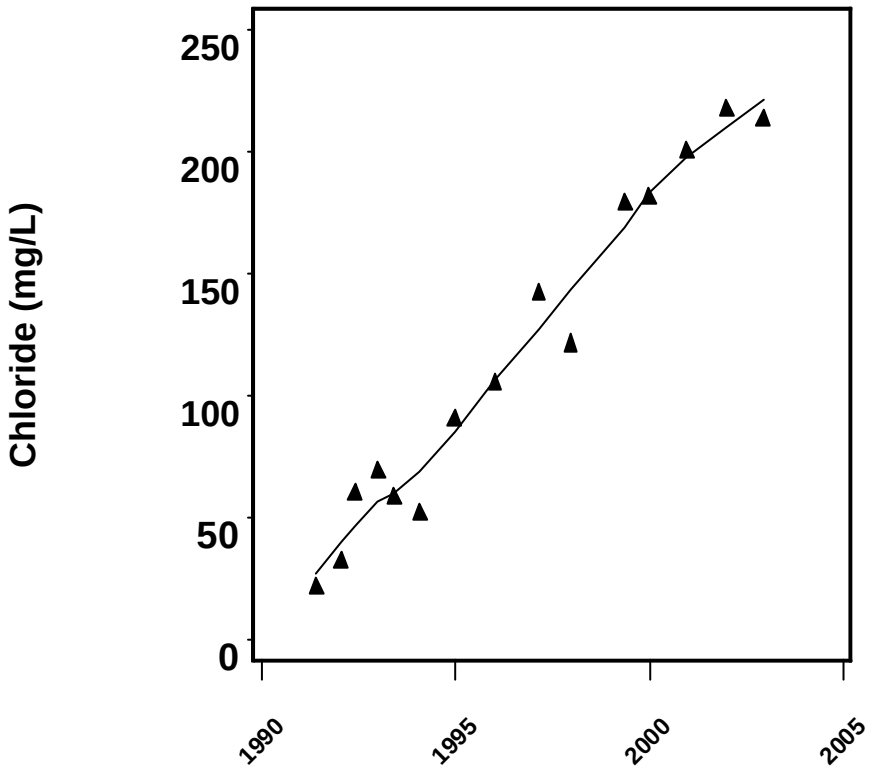


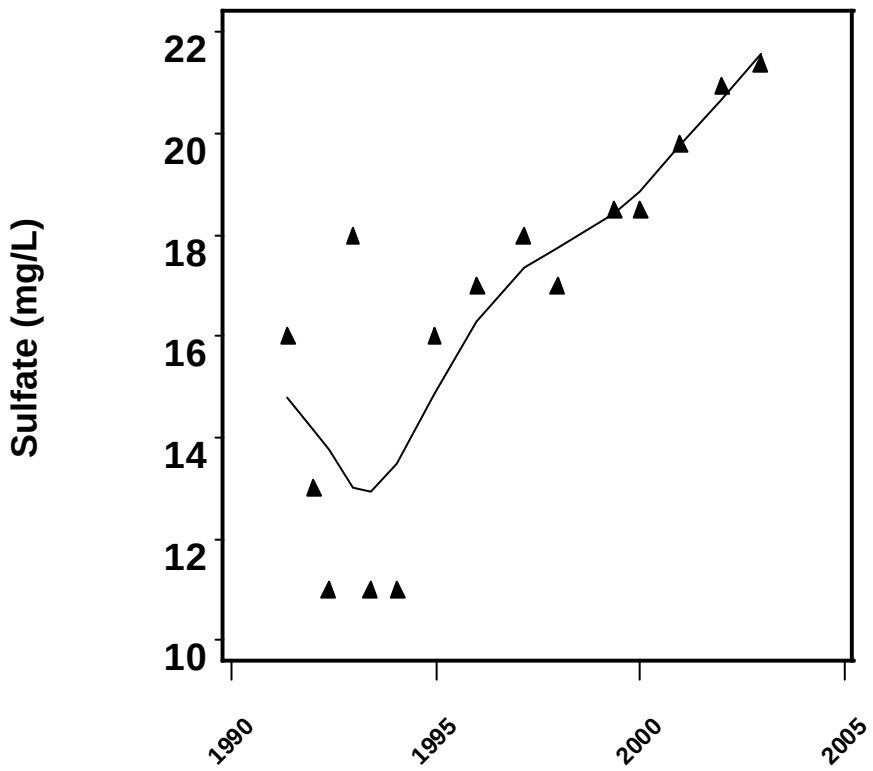
Appendix B-49. Water Quality Scatterplots Fitted with a LOWESS Curve for PERICO ISLAND WELL.



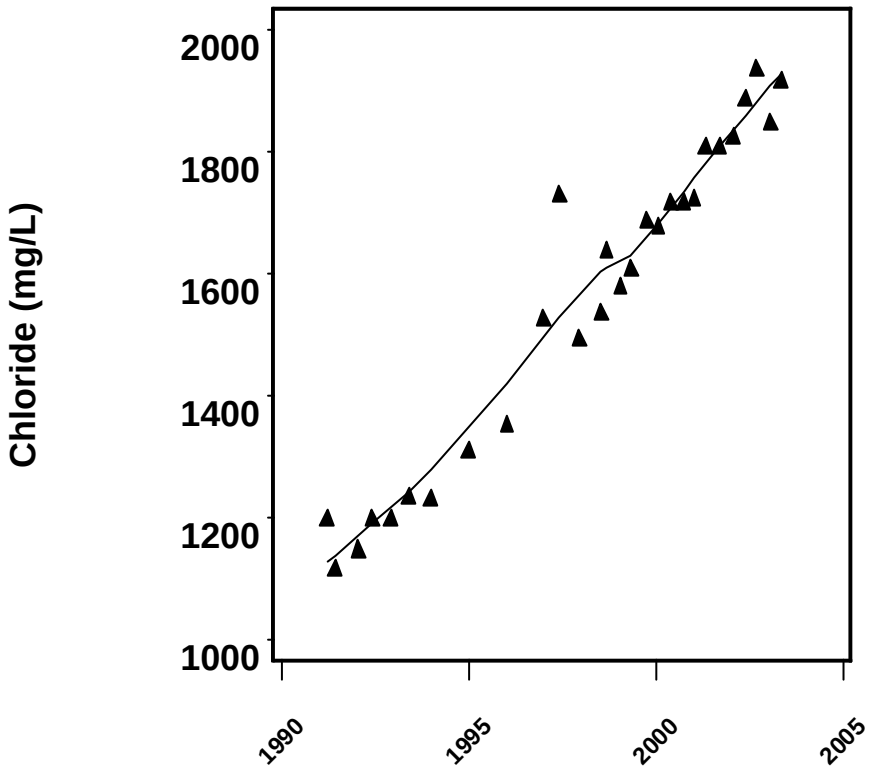


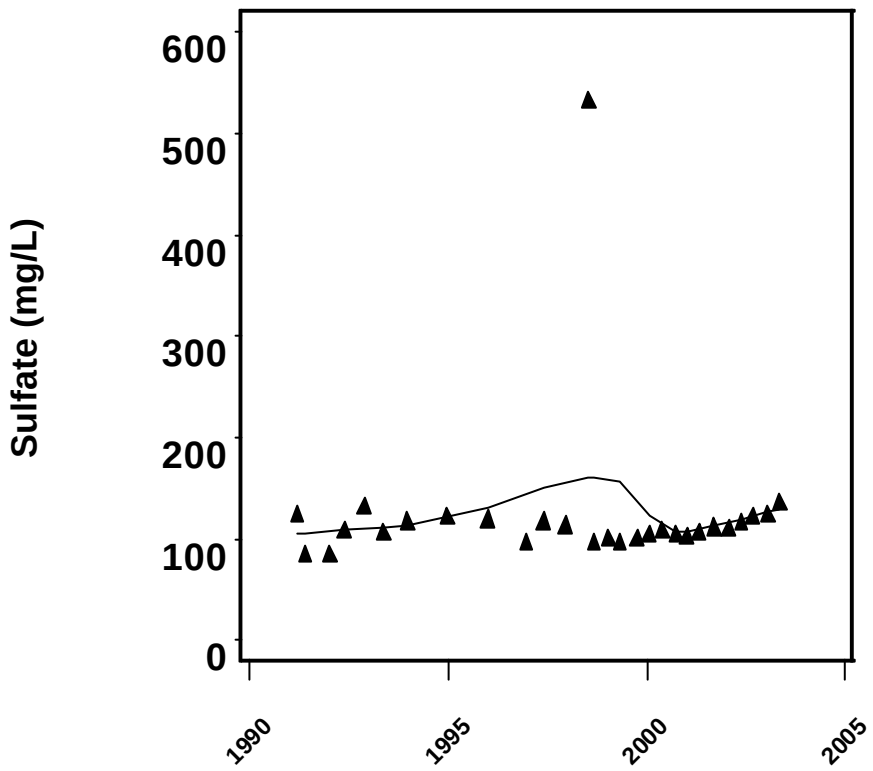
Appendix B-50. Water Quality Scatterplots Fitted with a LOWESS Curve for PLANTATION SUWANNEE.



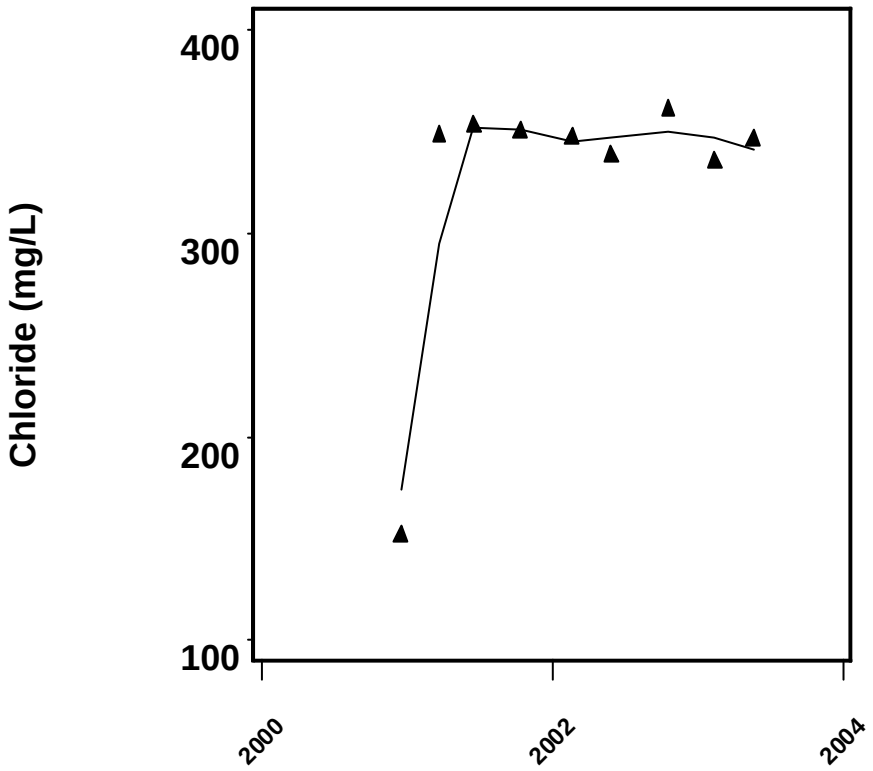


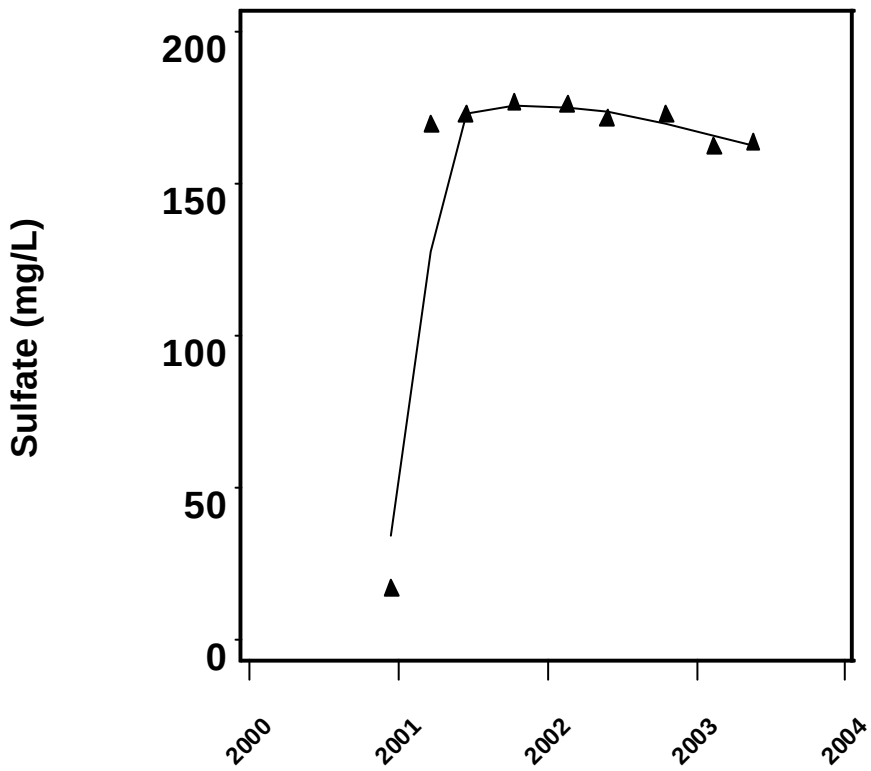
Appendix B-51. Water Quality Scatterplots Fitted with a LOWESS Curve for PORT RICHEY CITY DP.



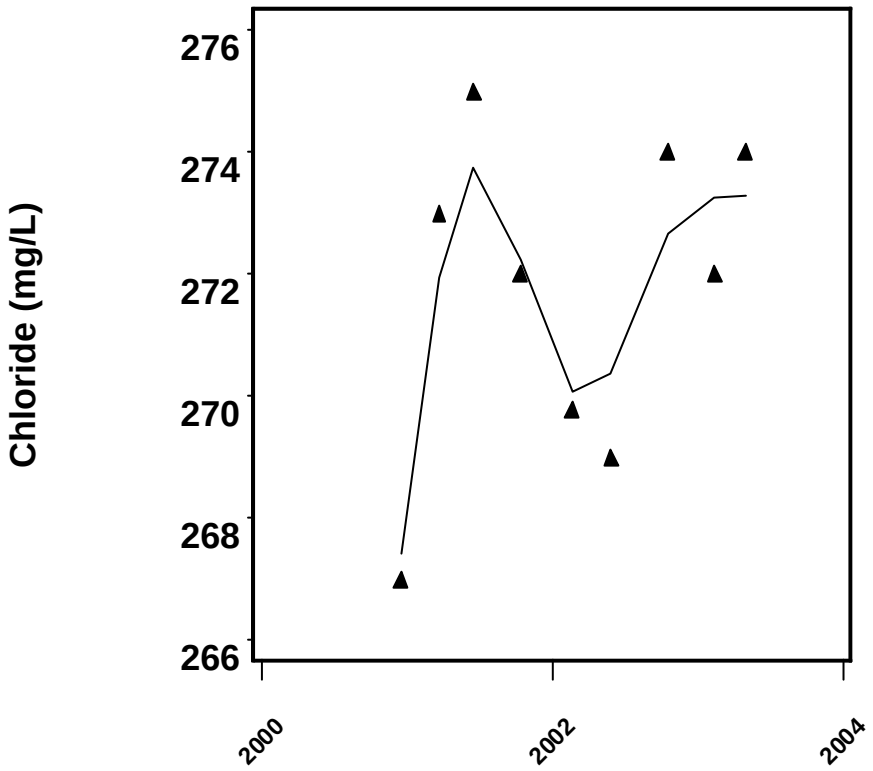


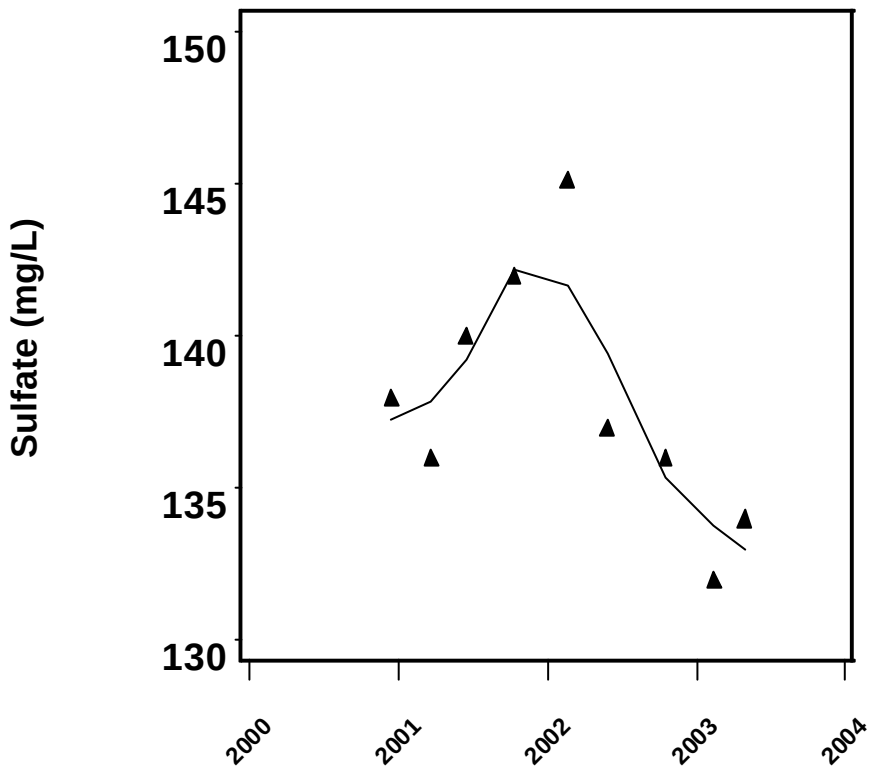
Appendix B-52. Water Quality Scatterplots Fitted with a LOWESS Curve for PRESBYTERIAN YOUTH CAMP.



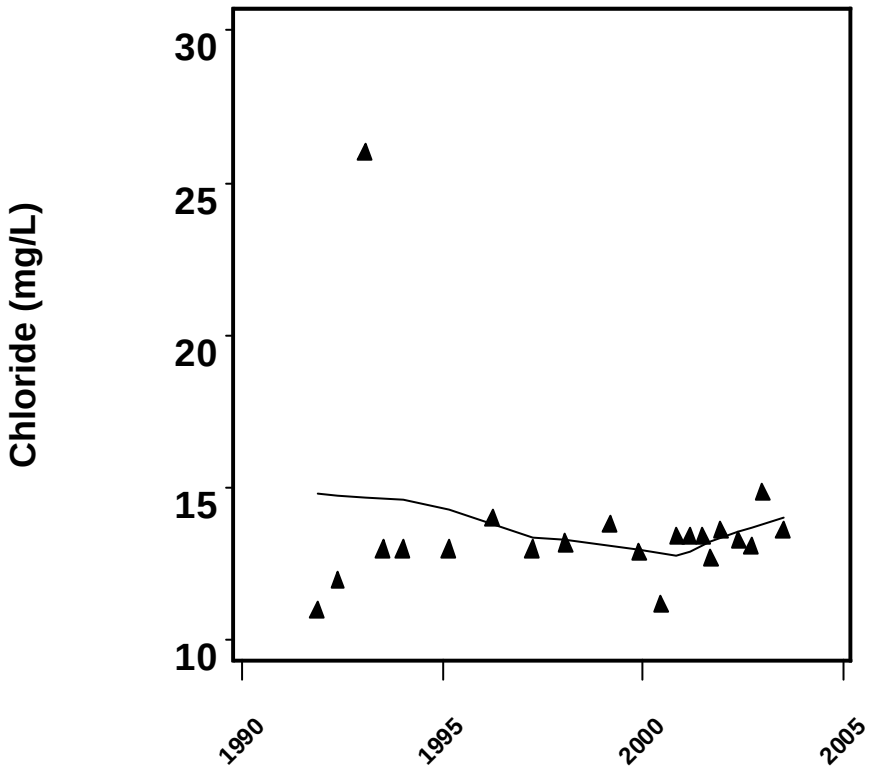


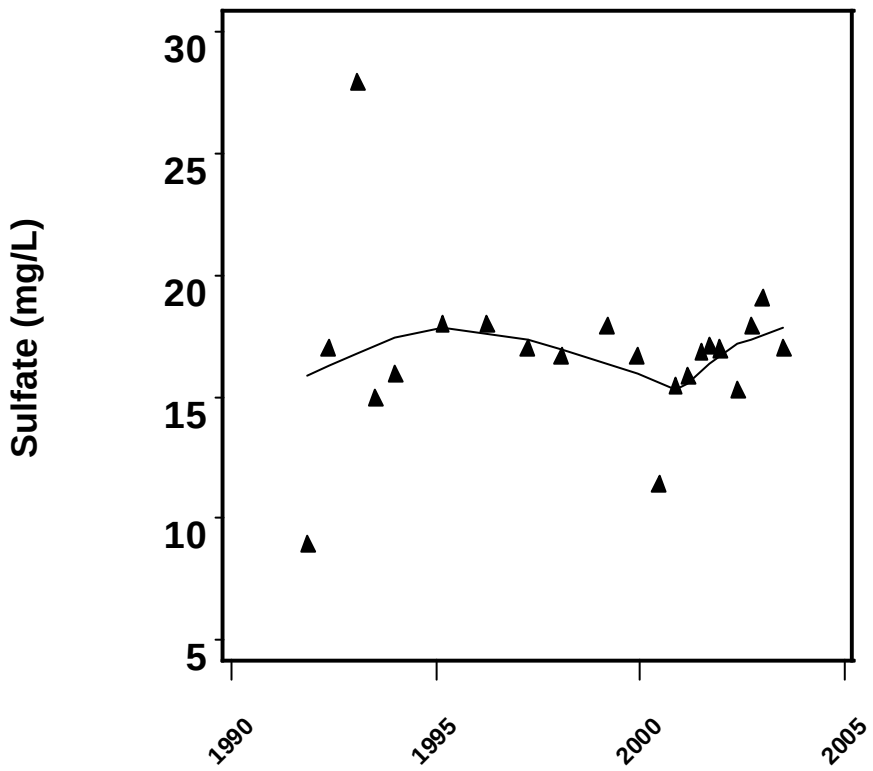
Appendix B-53. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12 MID UP FLORIDAN.



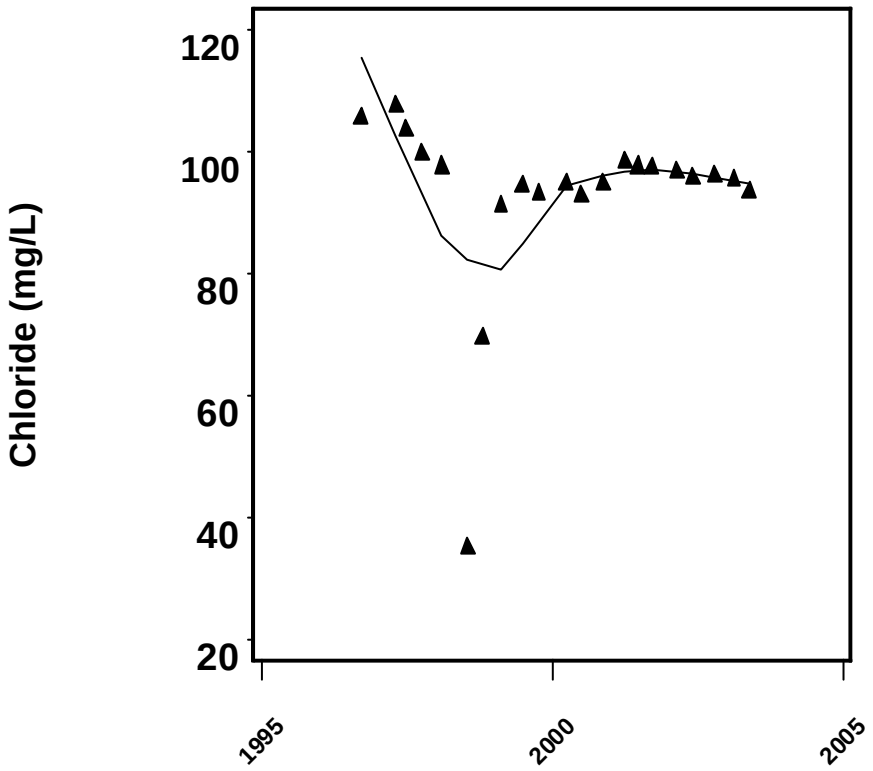


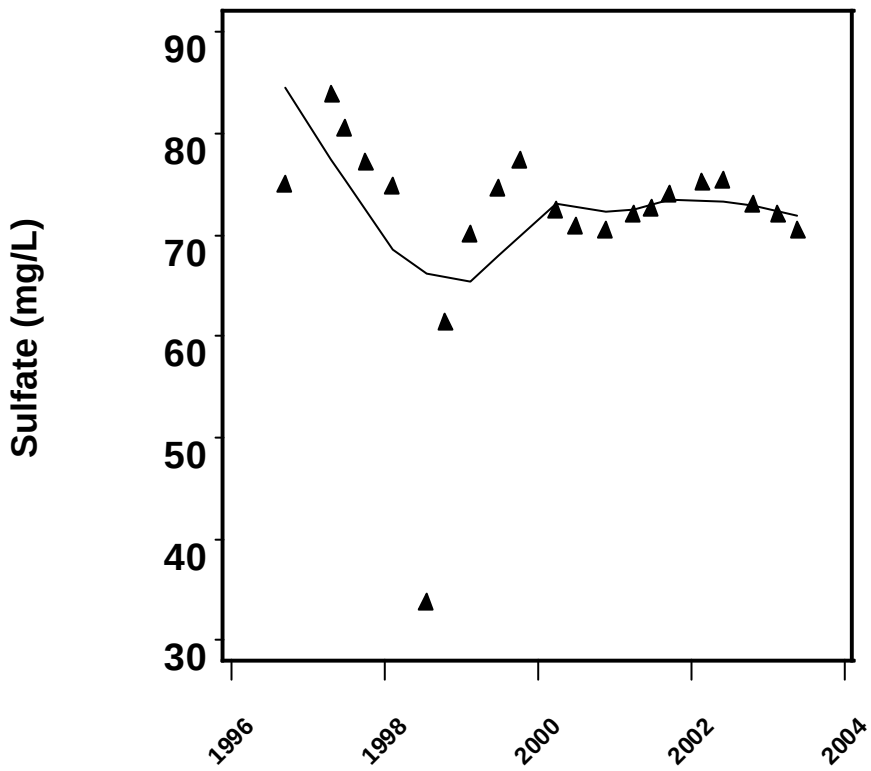
Appendix B-54. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12 SH UP FLORIDAN.



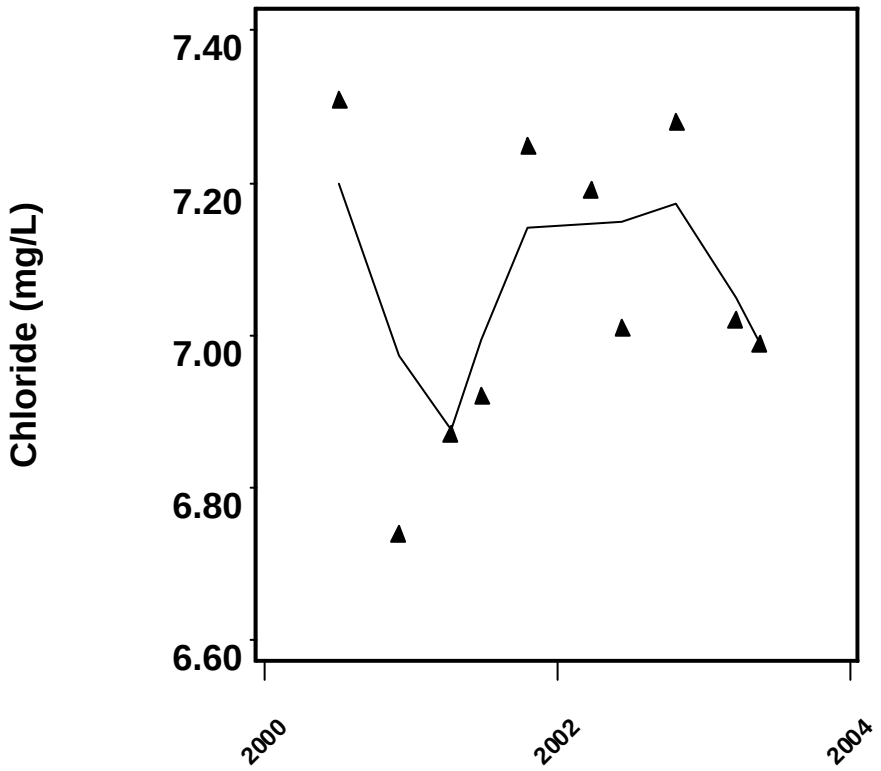


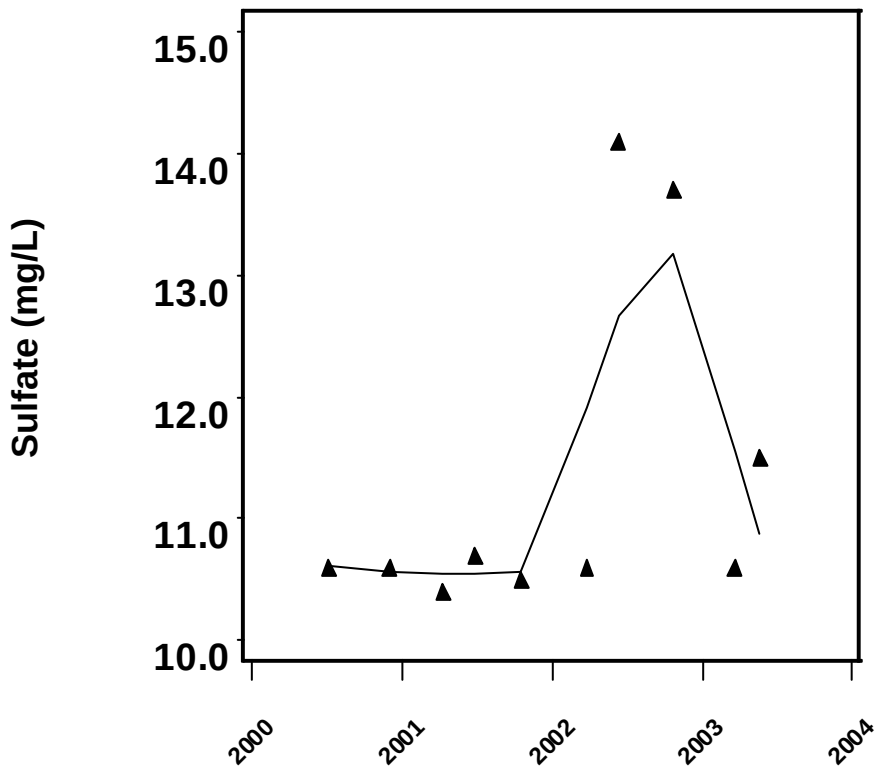
Appendix B-55. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 123 DEEP.



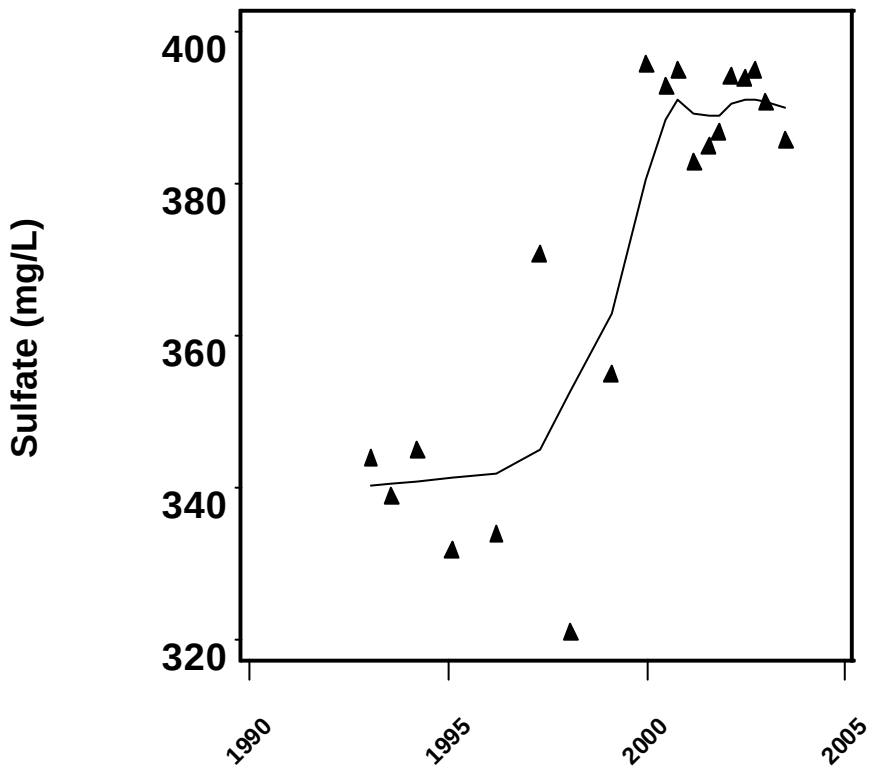


Appendix B-56. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 13 SWNN.

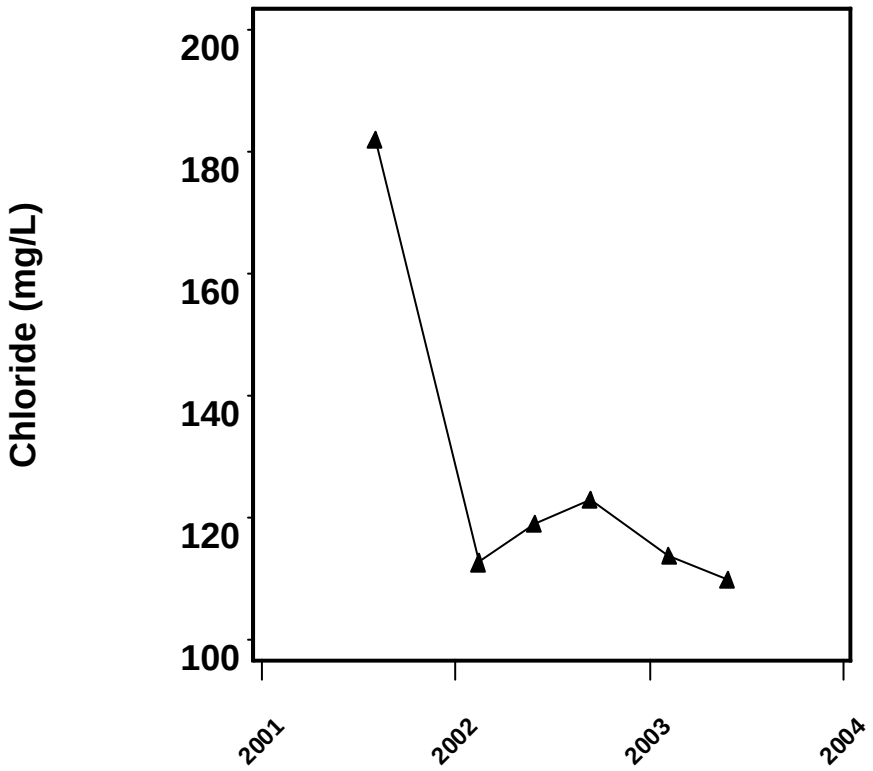


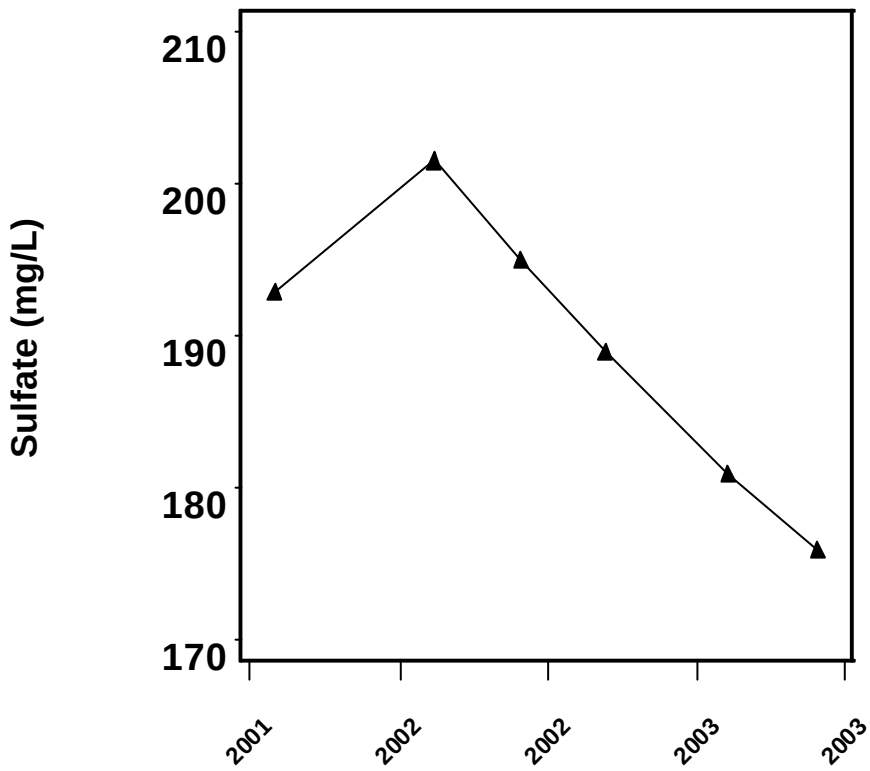


Appendix B-57. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 14 SH FLORIDAN.

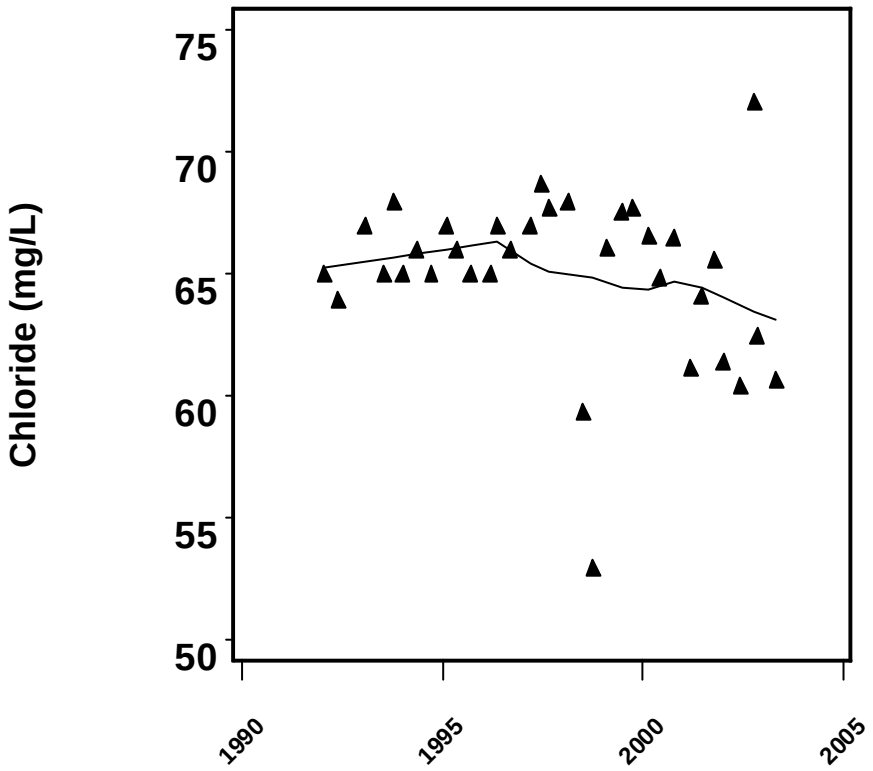


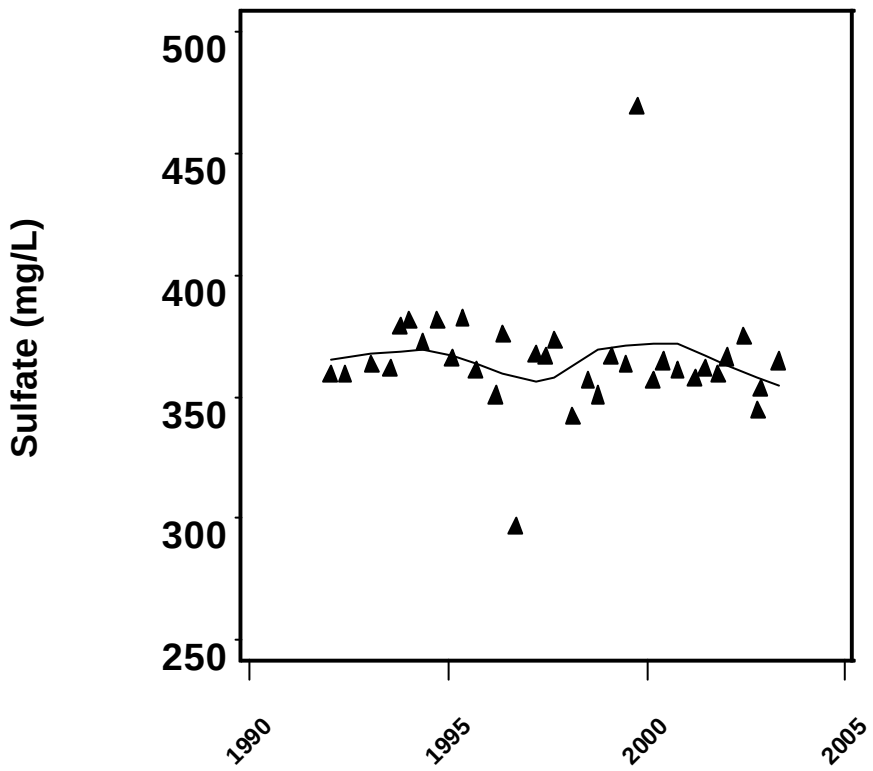
Appendix B-58. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 15 DEEP.



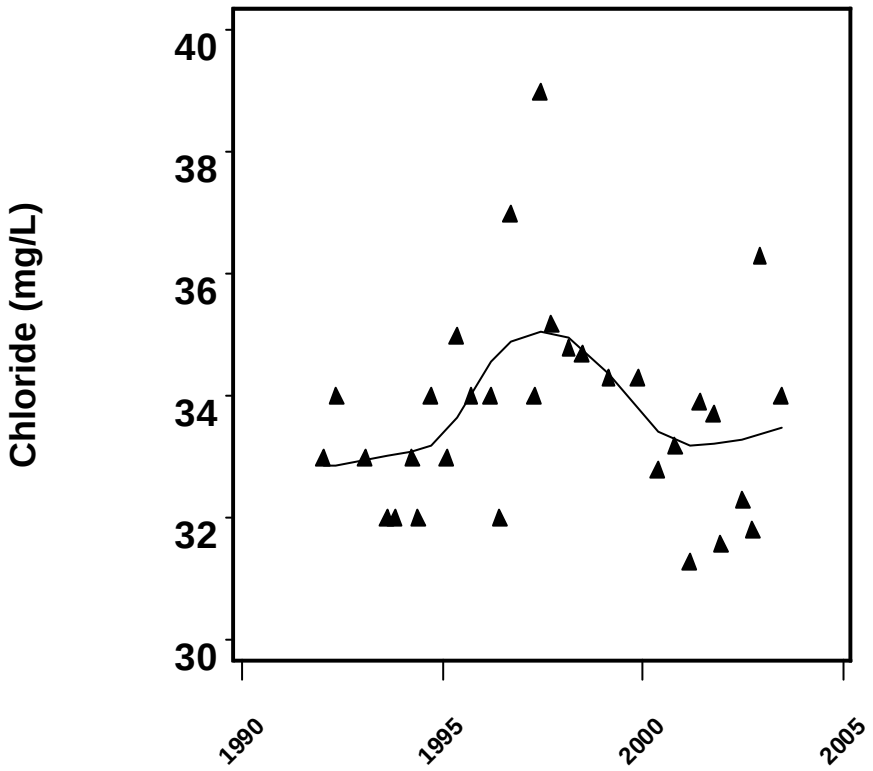


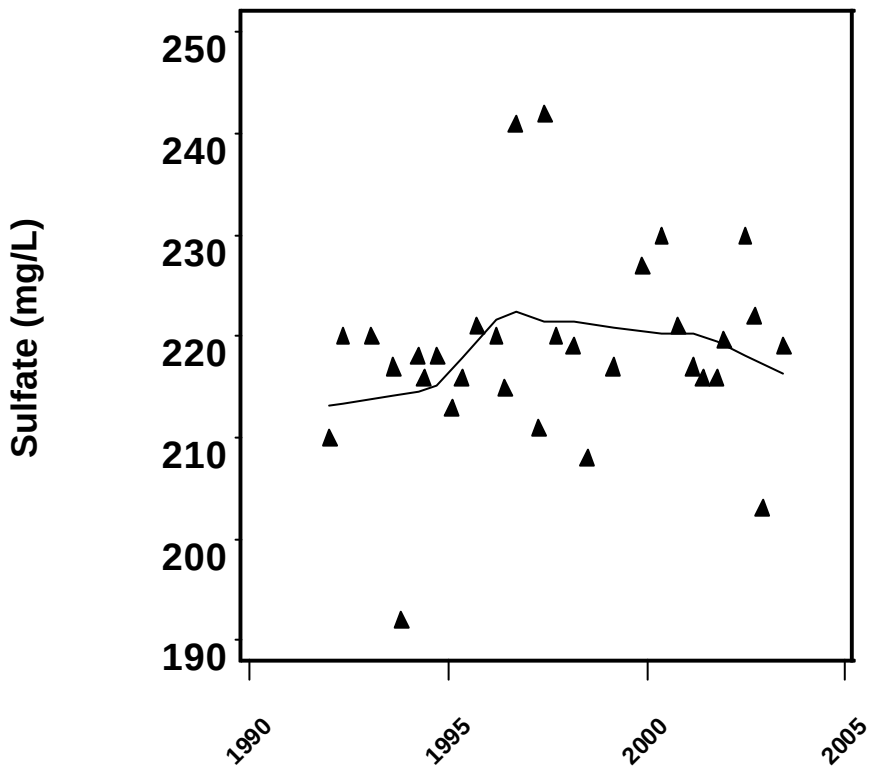
Appendix B-59. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 16.5 SUWANNEE.



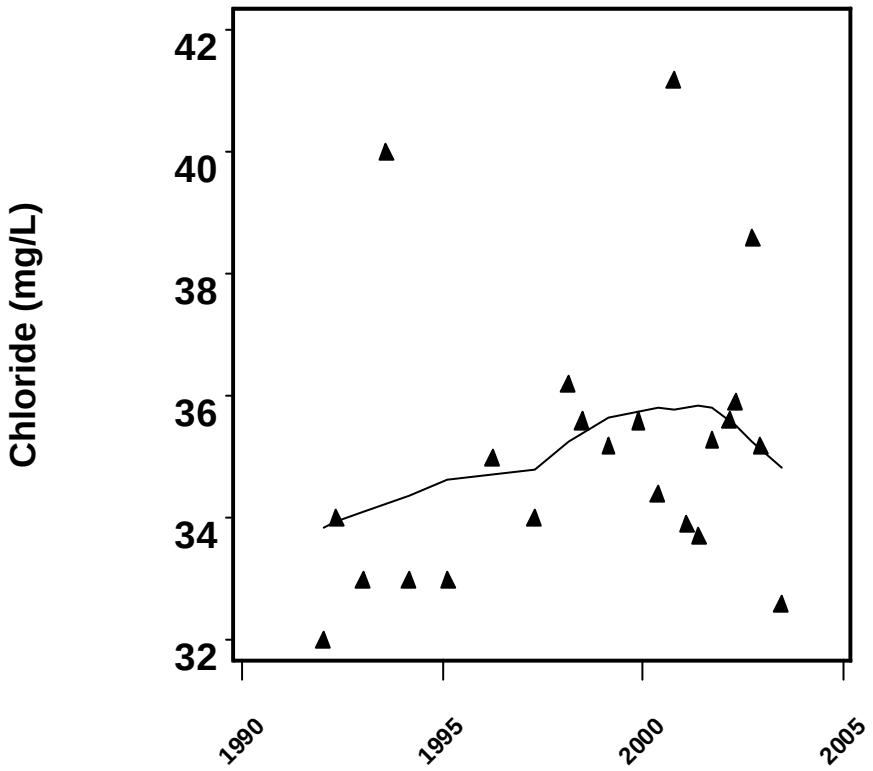


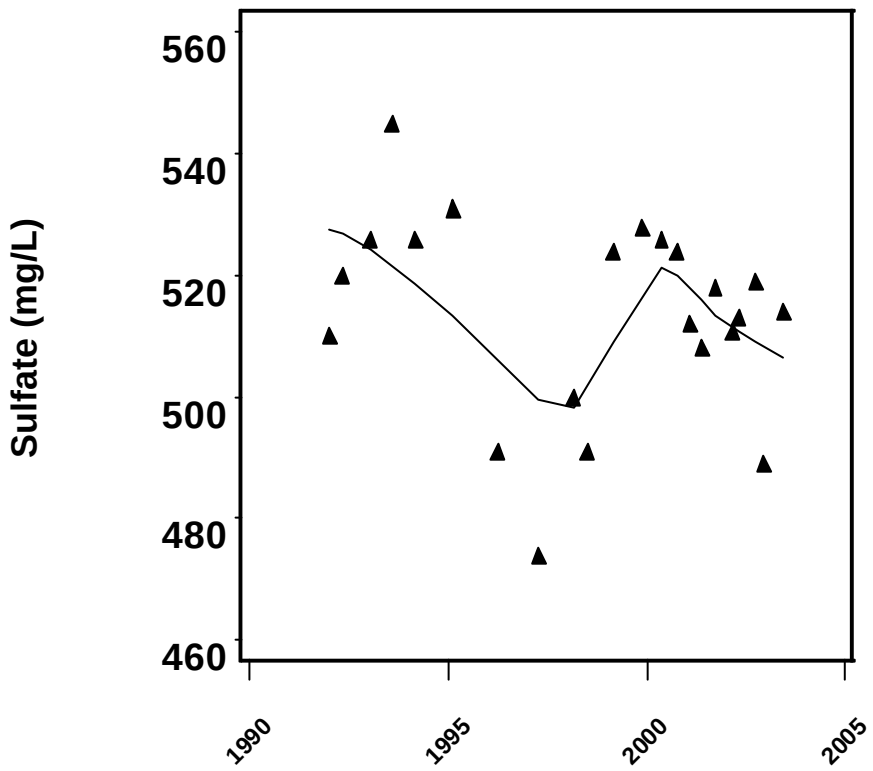
Appendix B-60. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 17 SWNN.



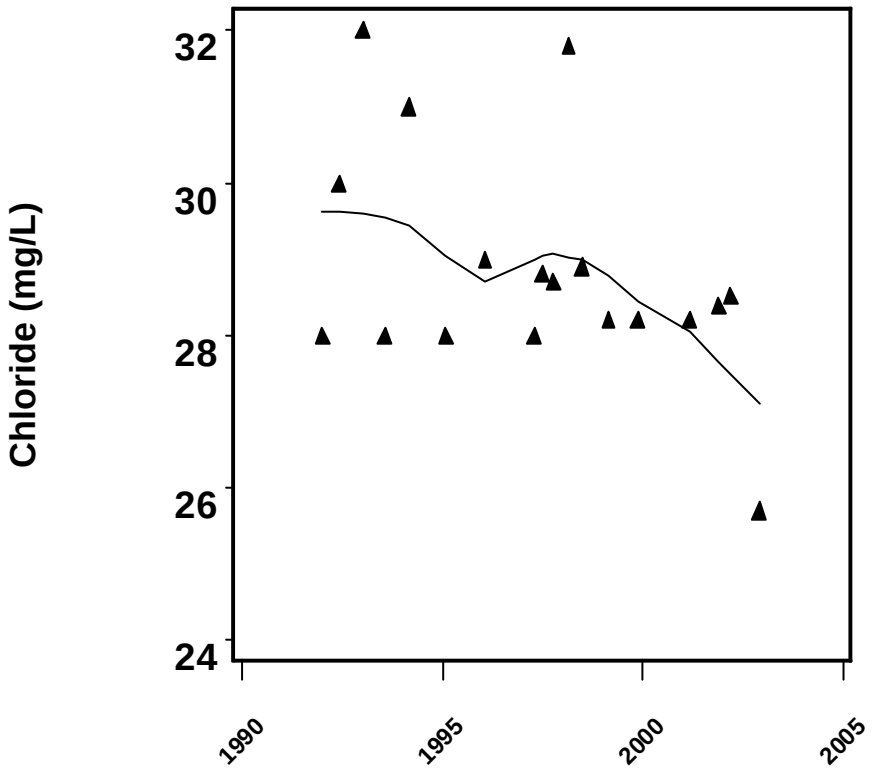


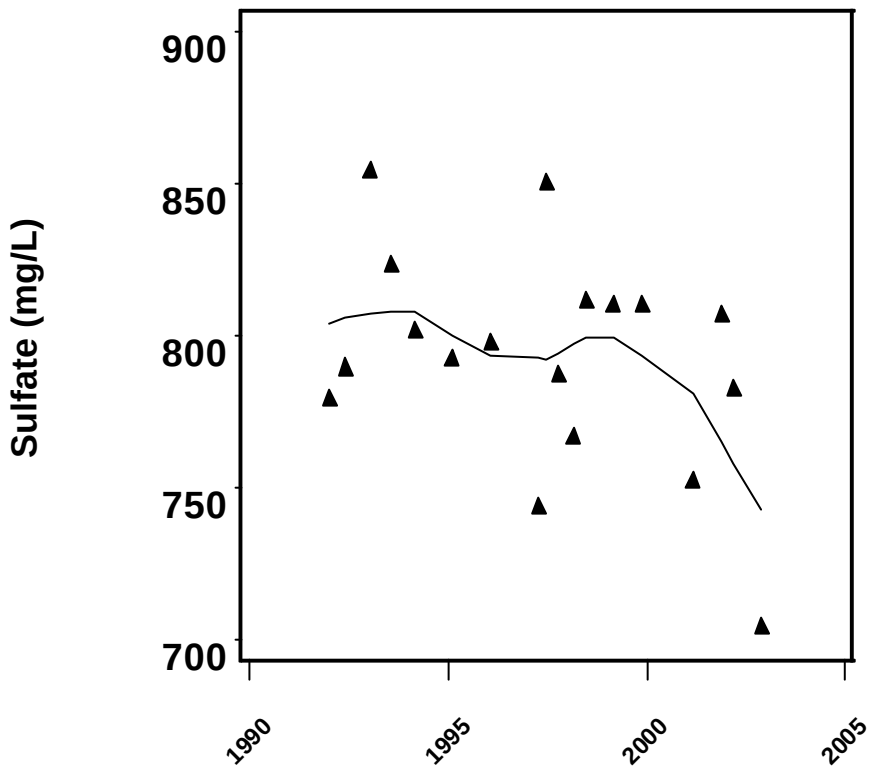
Appendix B-61. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 18 SUWANNEE.



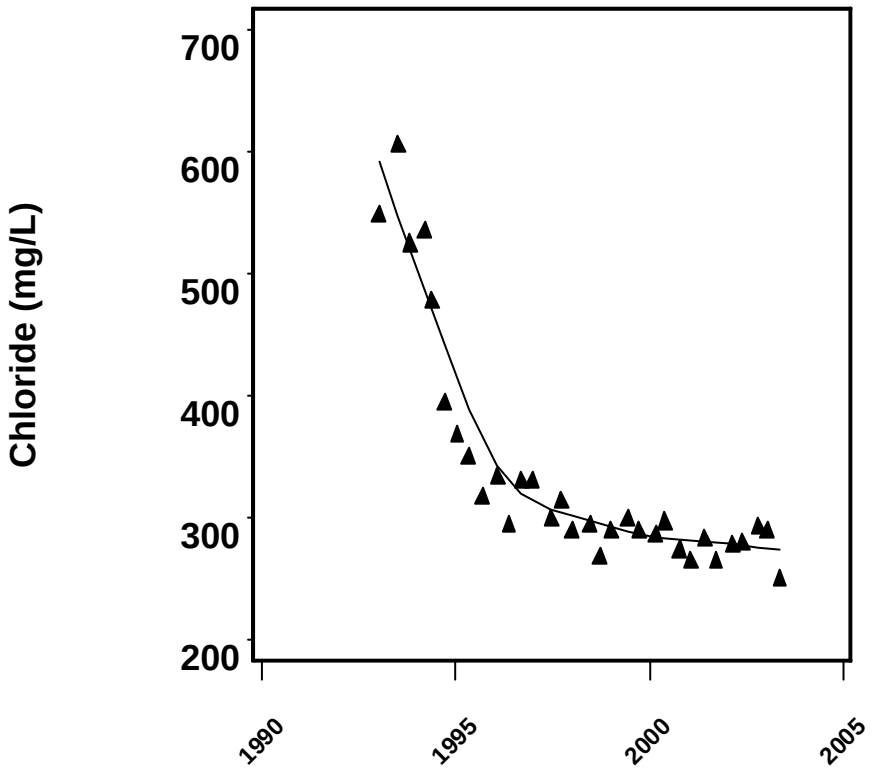


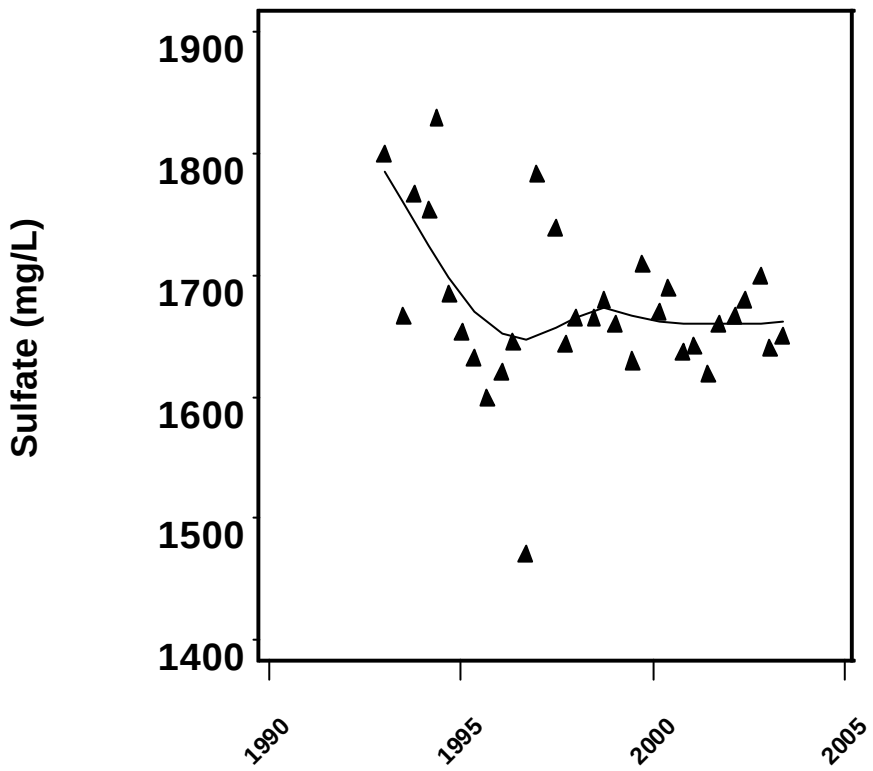
Appendix B-62. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 19 ELAM.



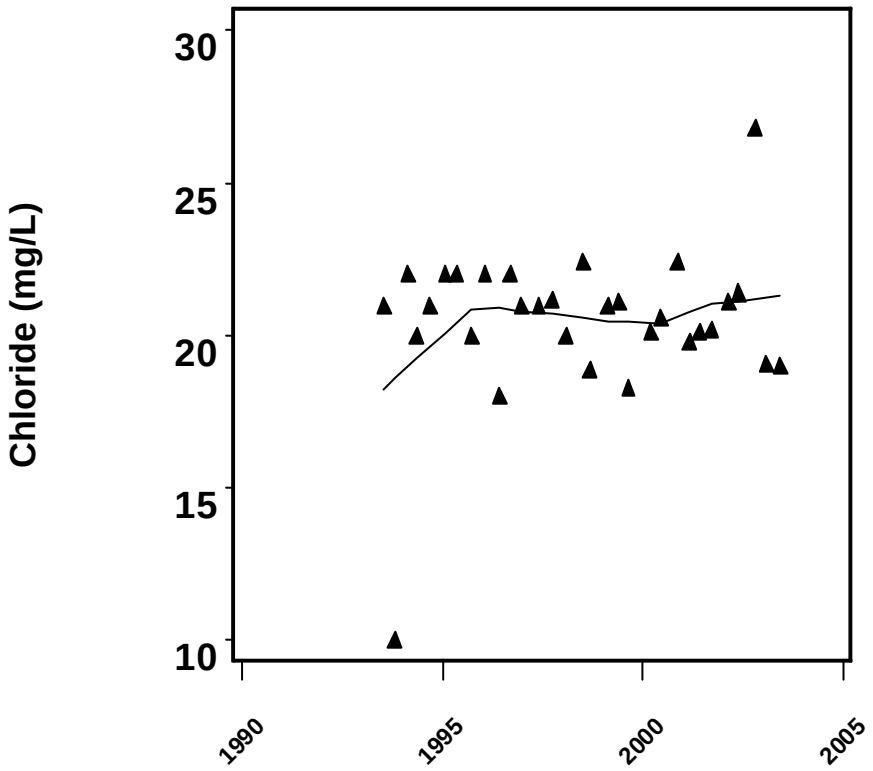


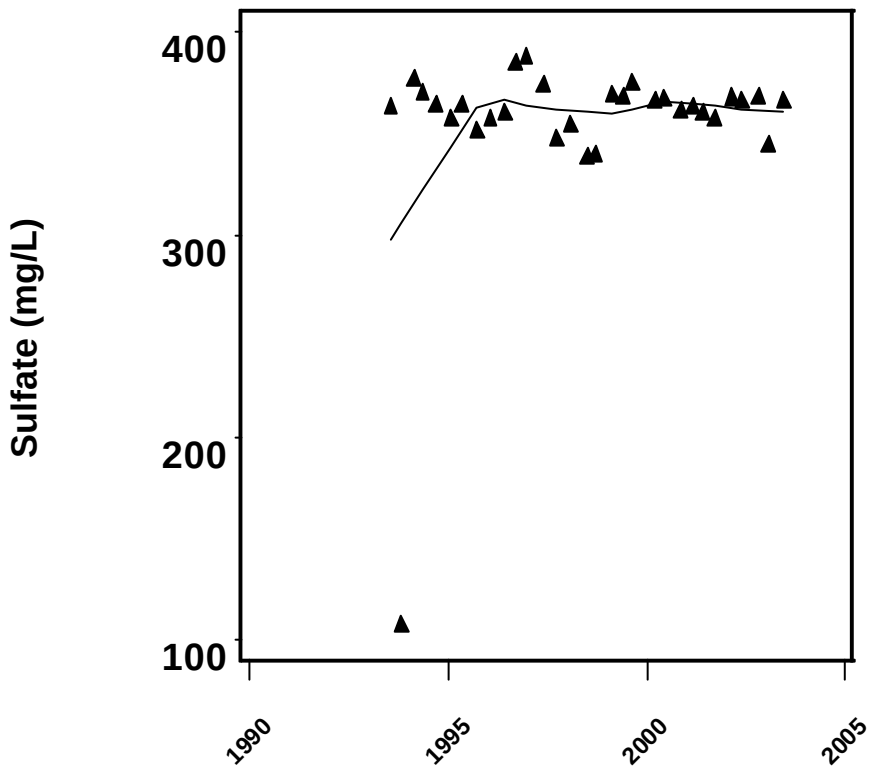
Appendix B-63. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 19 WLAM.



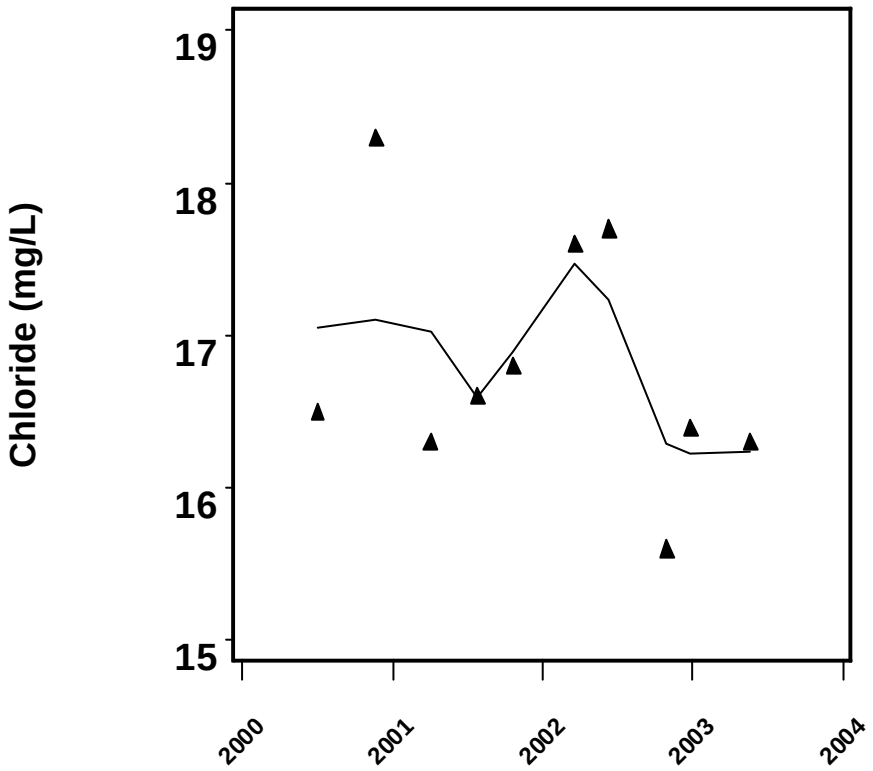


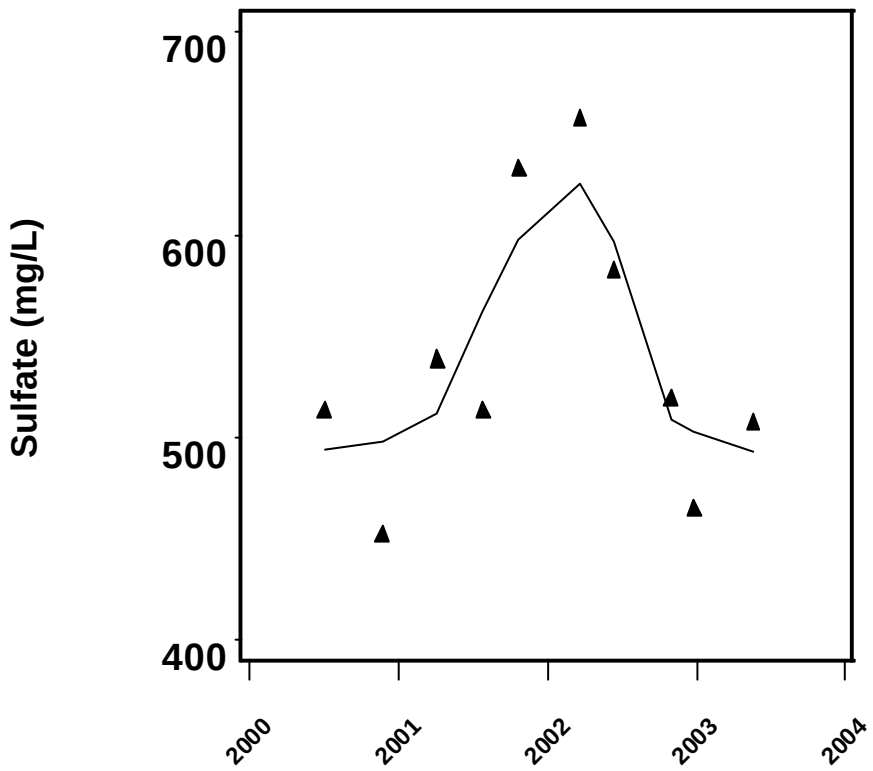
Appendix B-64. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 20 SWNN.



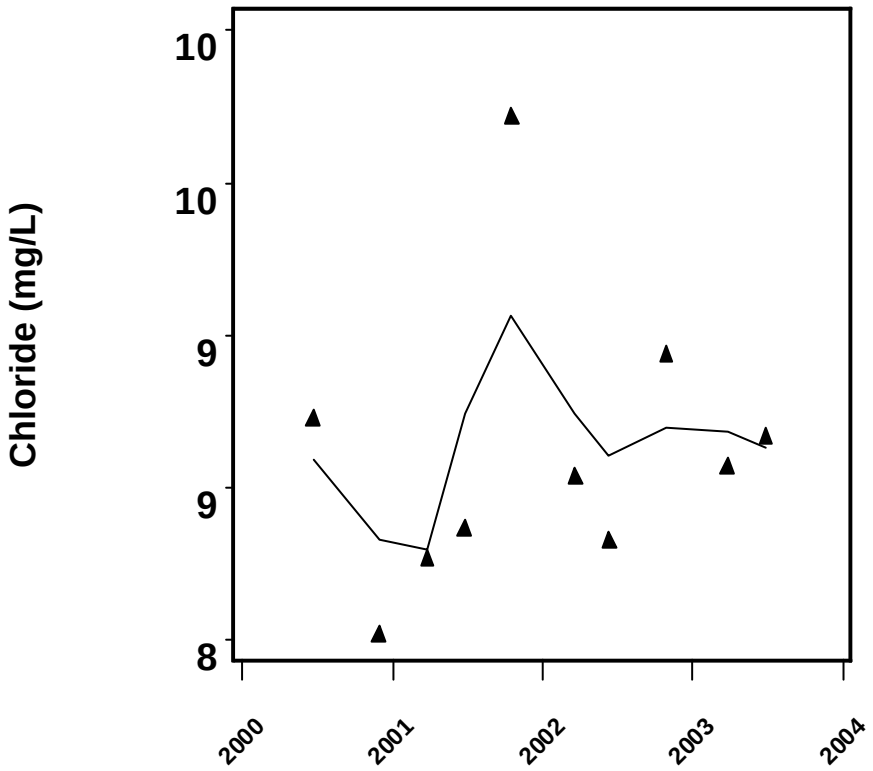


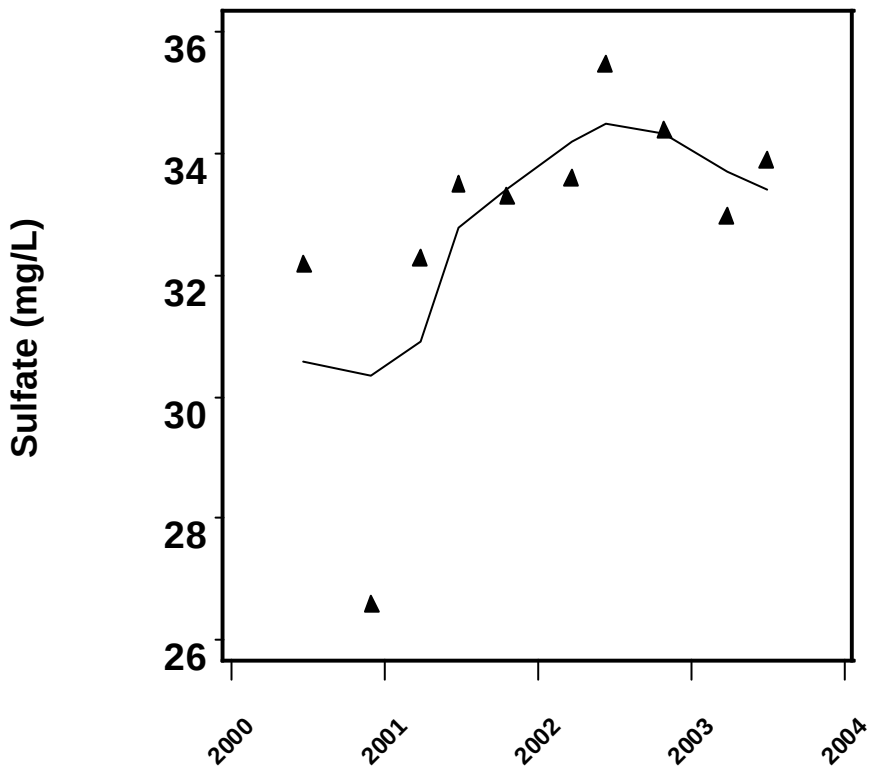
Appendix B-65. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 22 SWNN.



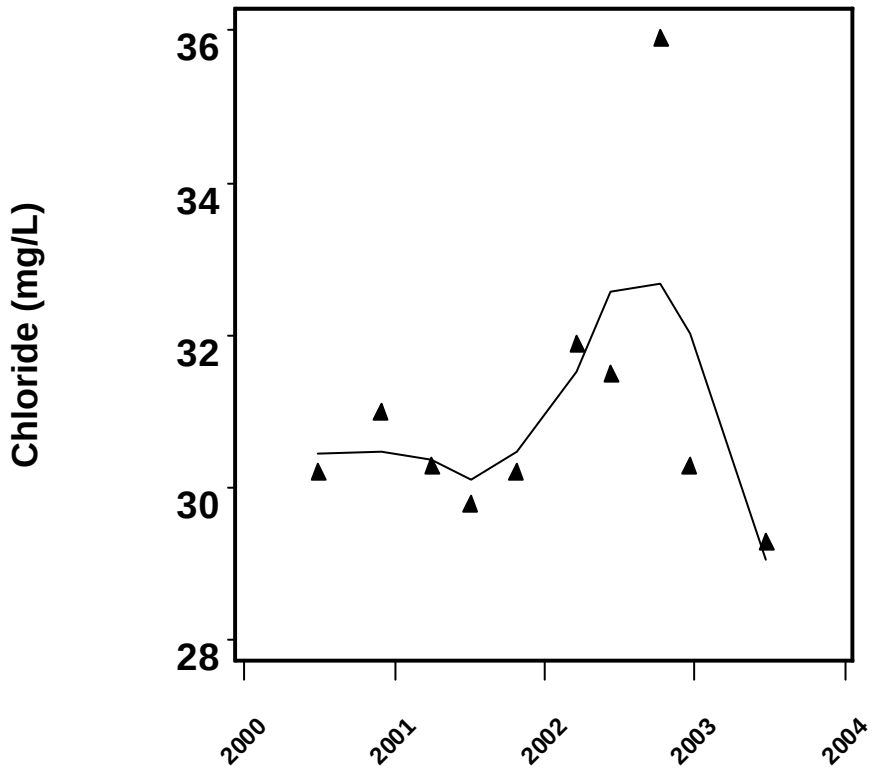


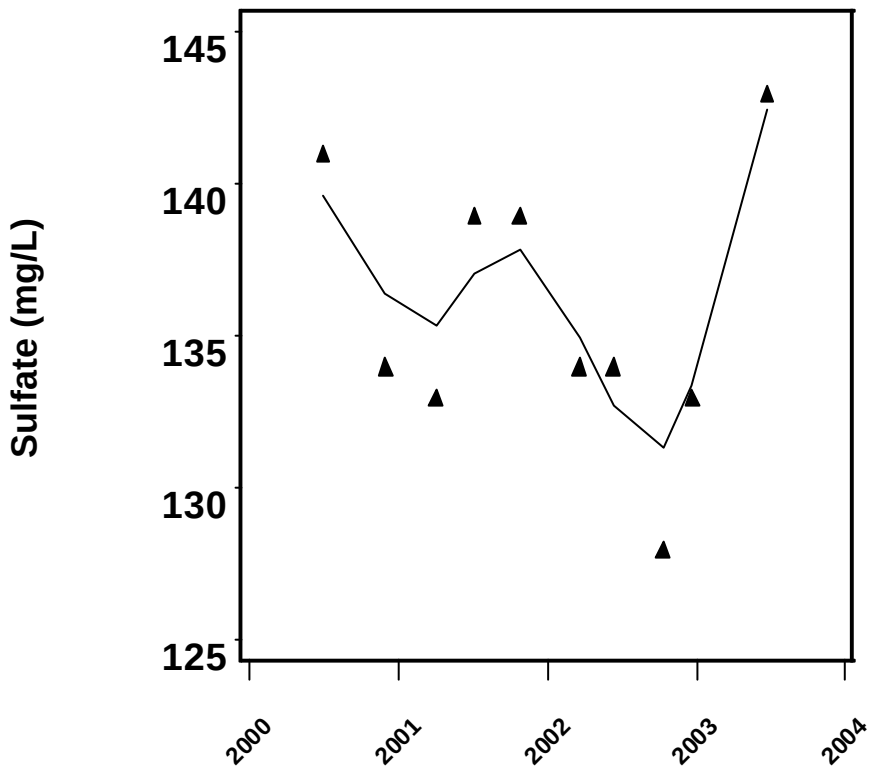
Appendix B-66. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 25 LILY SUWANNEE.



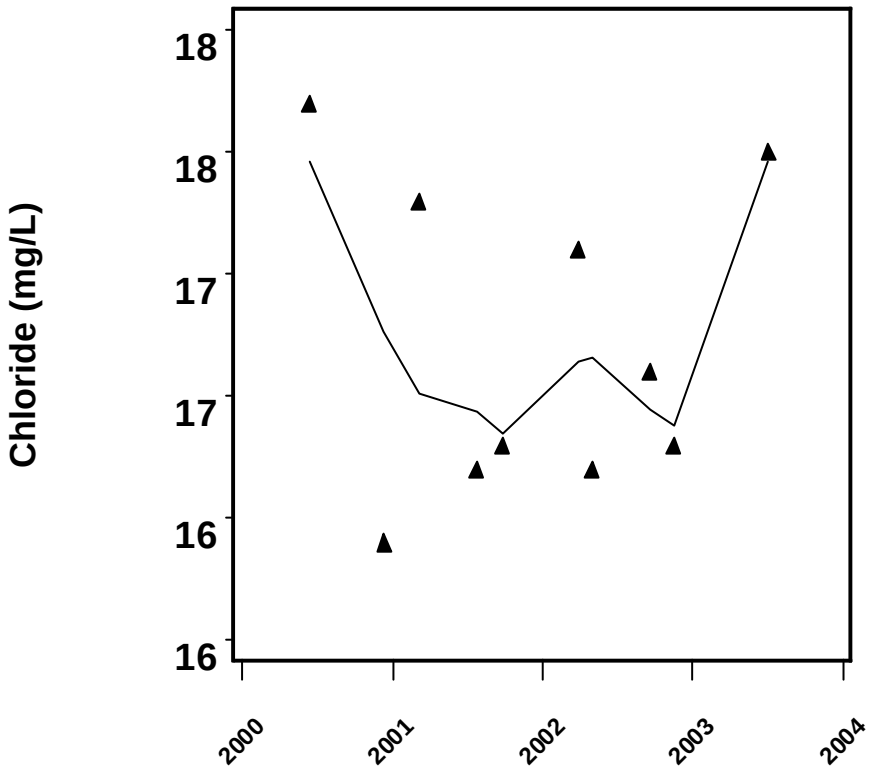


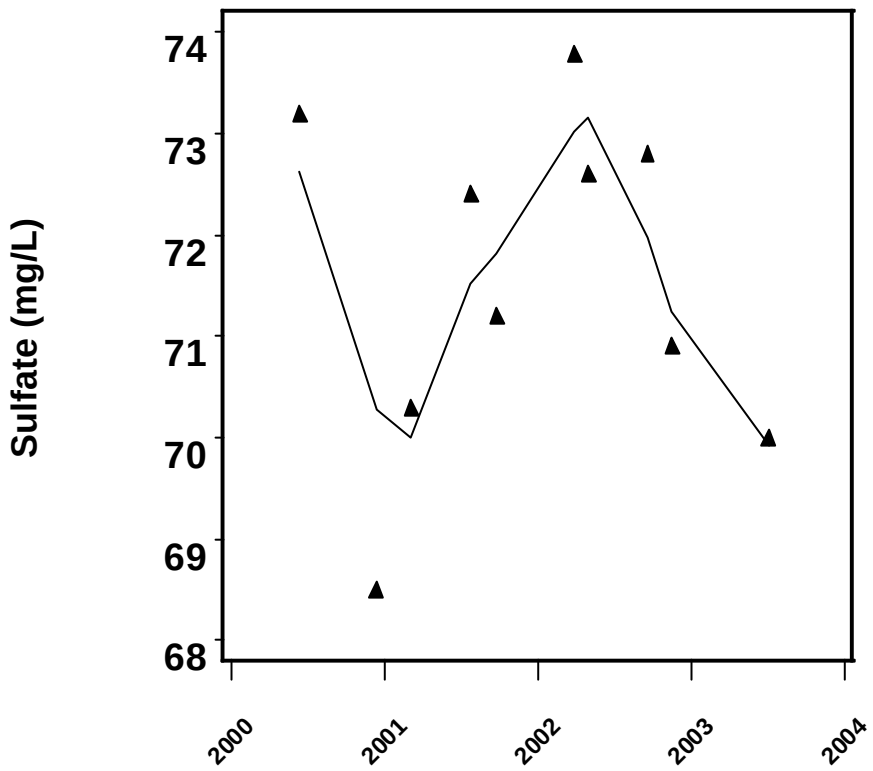
Appendix B-67. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 28 SUWANNEE.



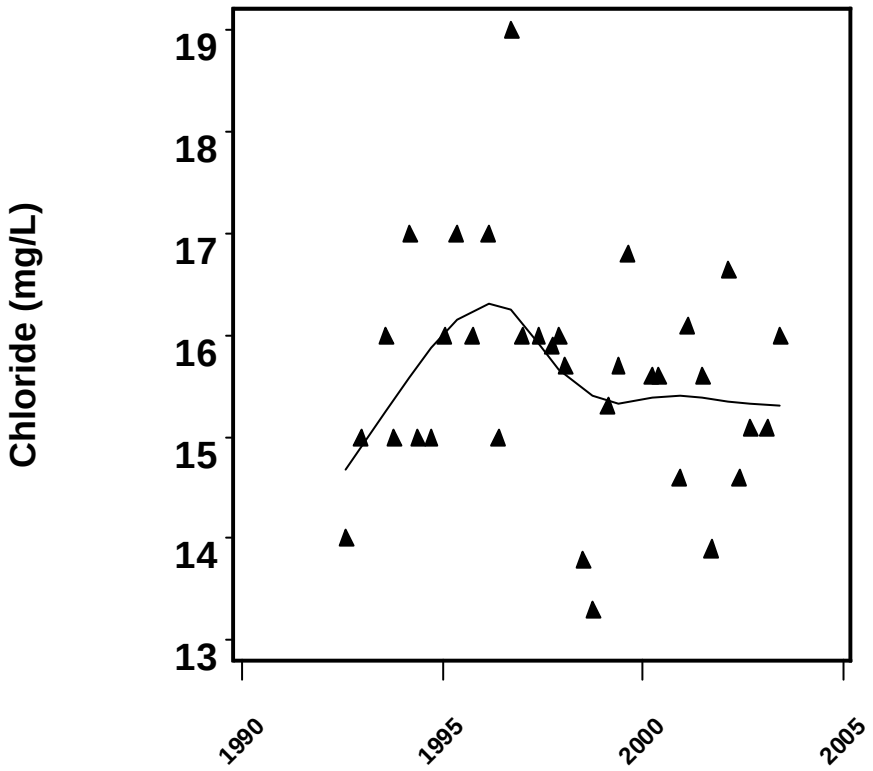


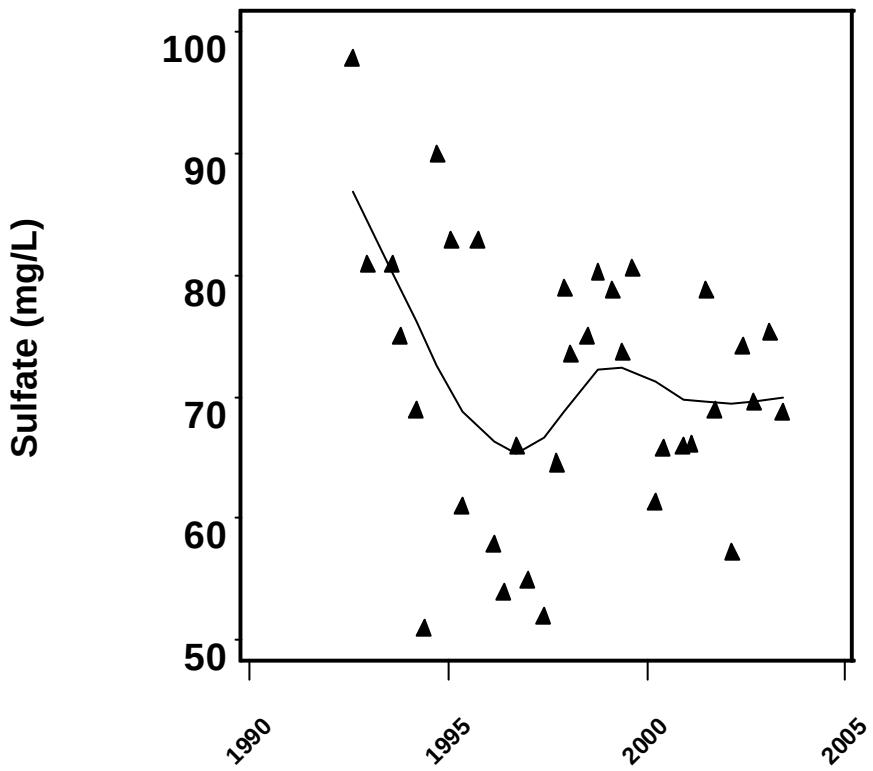
Appendix B-68. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 30 TAMPA.



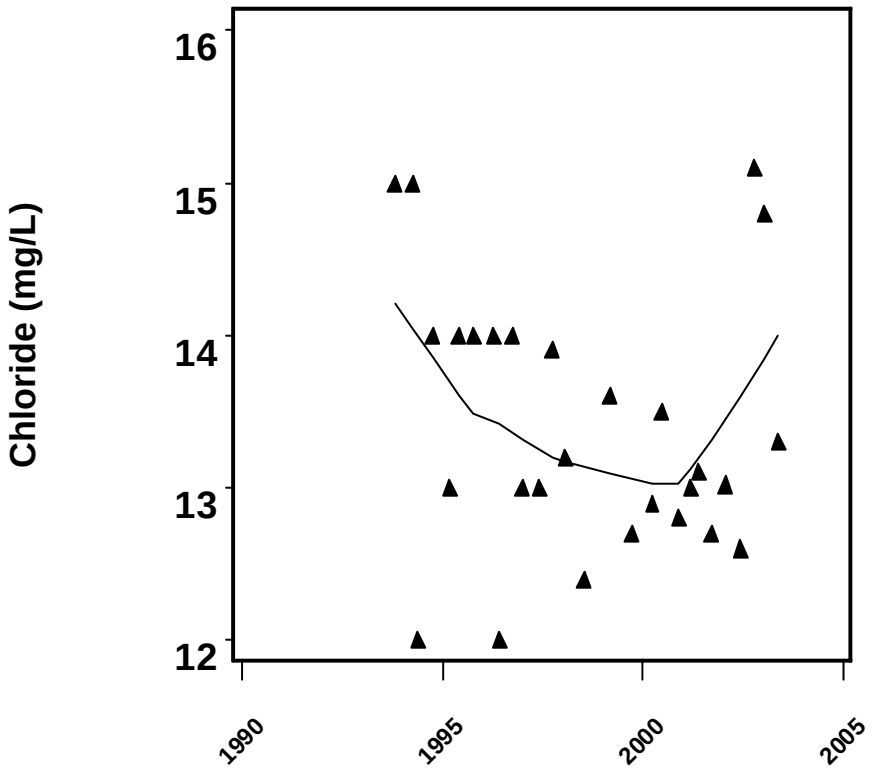


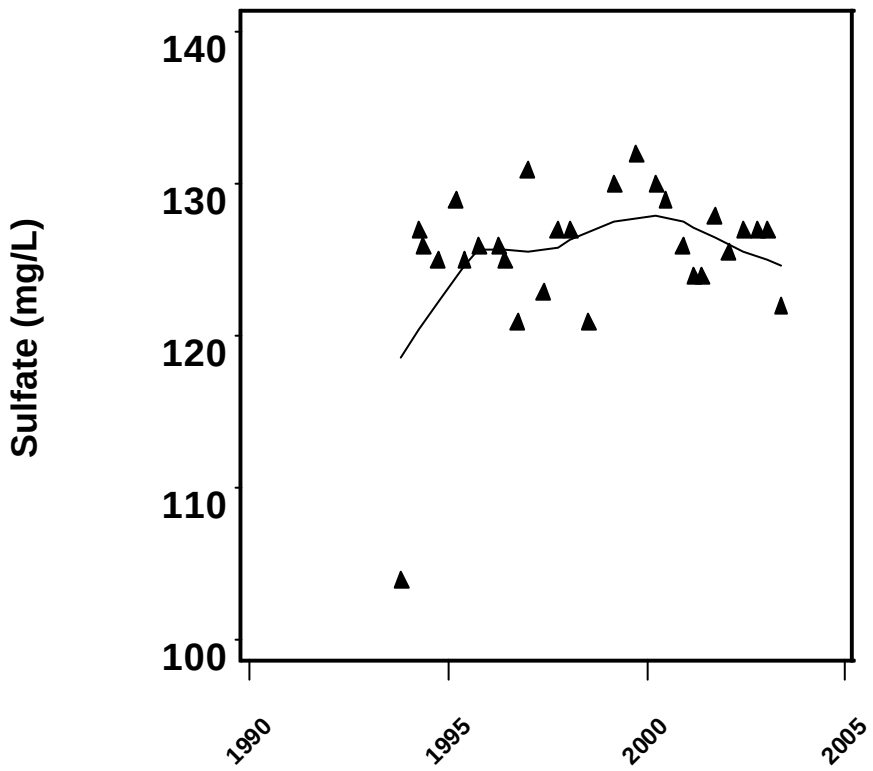
Appendix B-69. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 32 SUWANNEE.



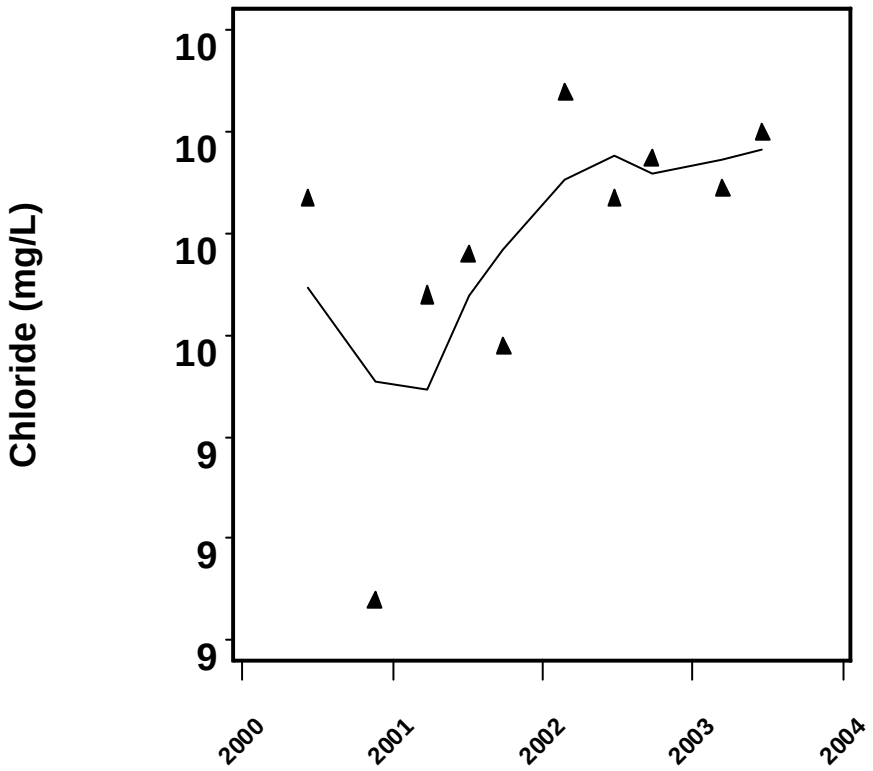


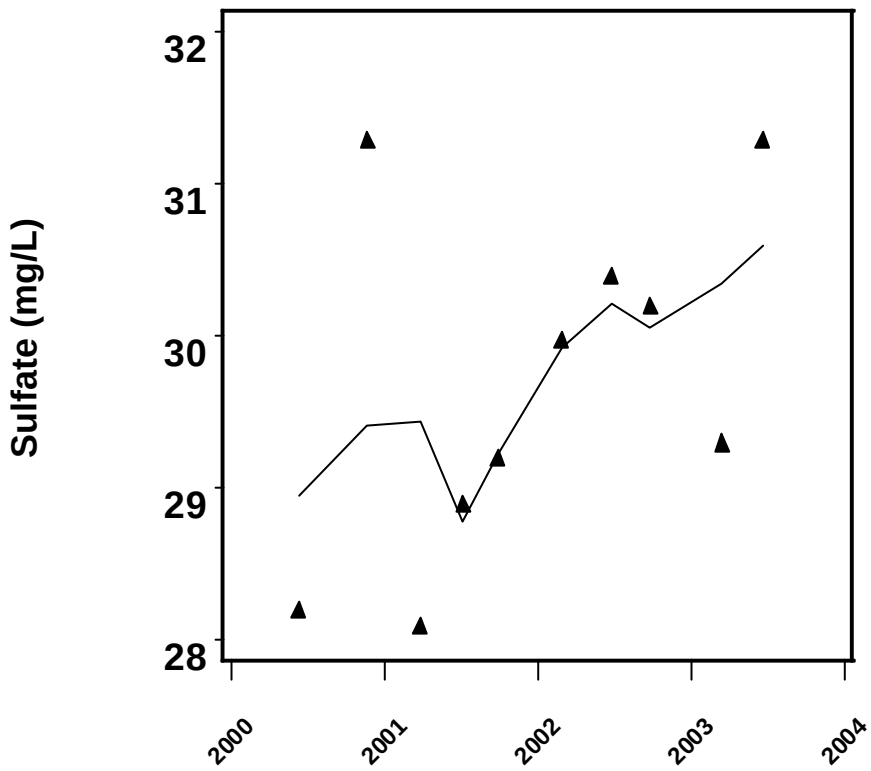
Appendix B-70. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 33 SWNN.



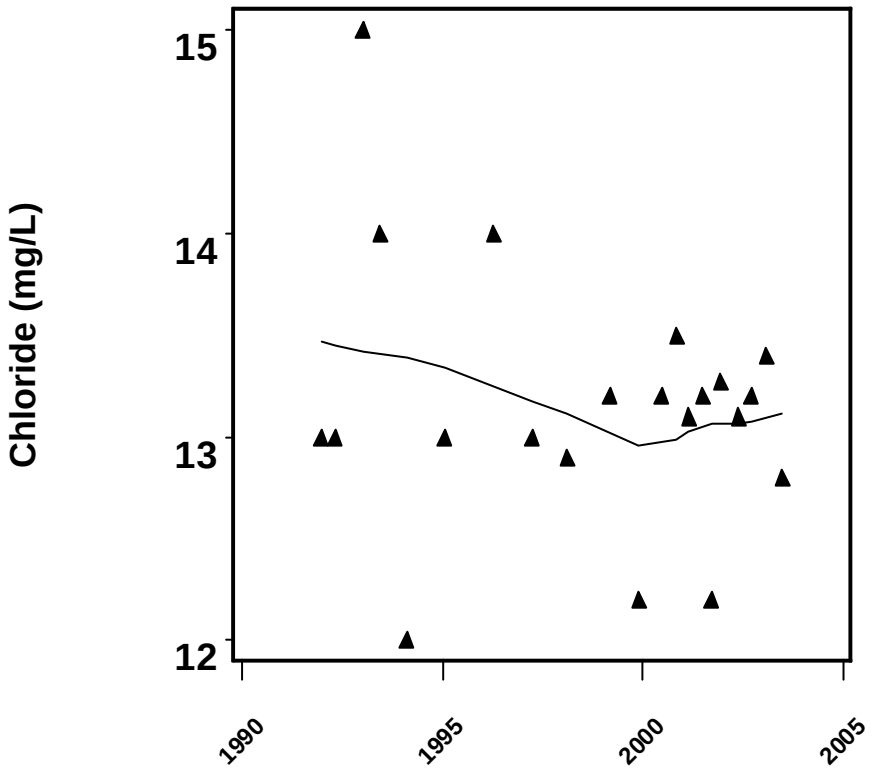


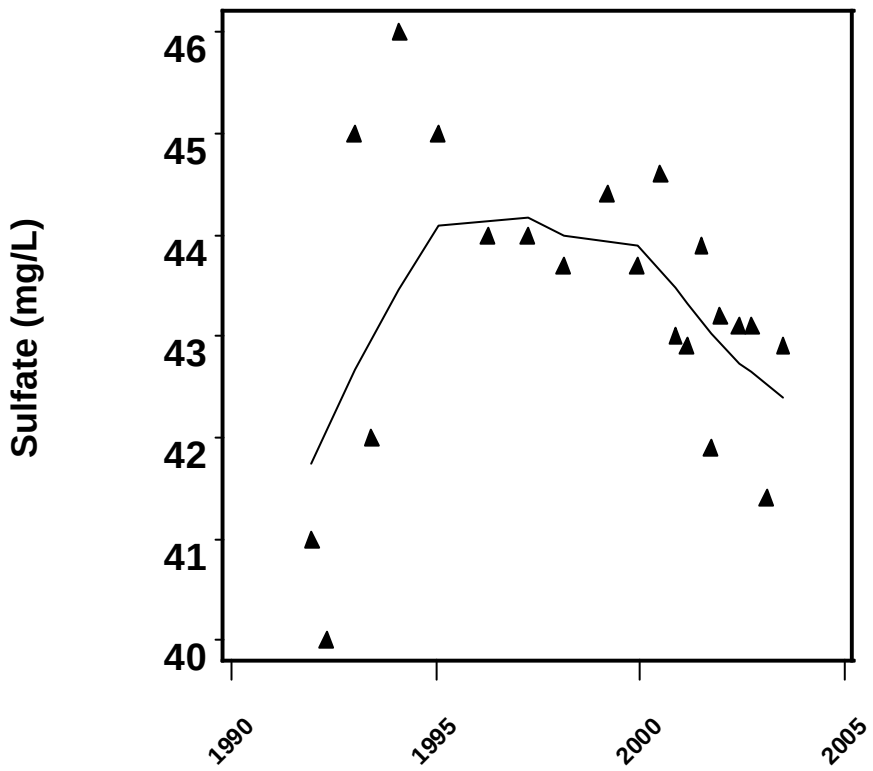
Appendix B-71. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 39 SWNN.



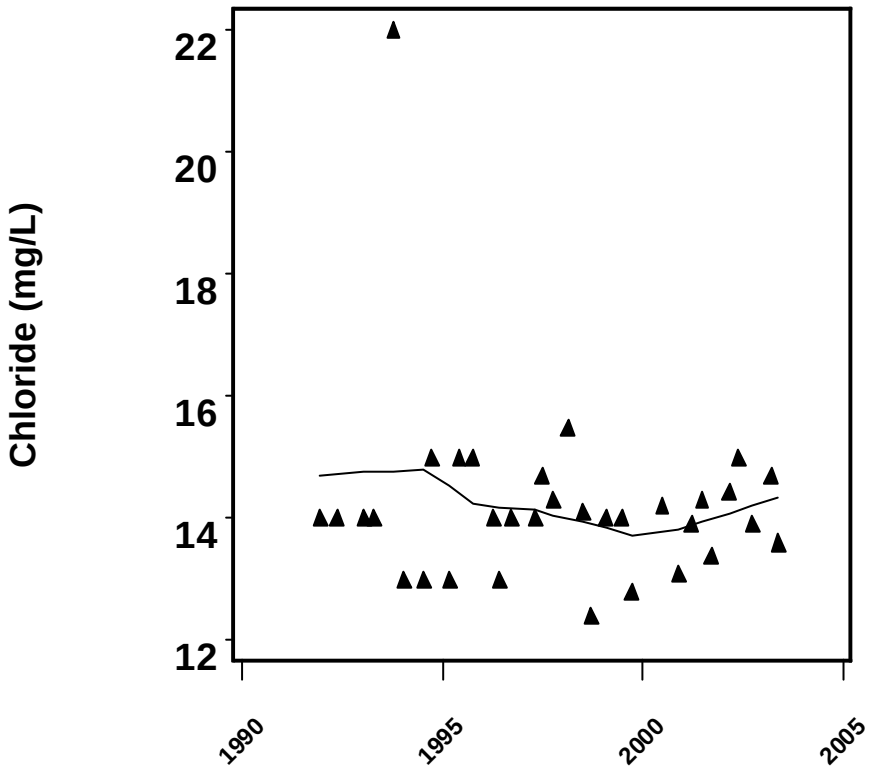


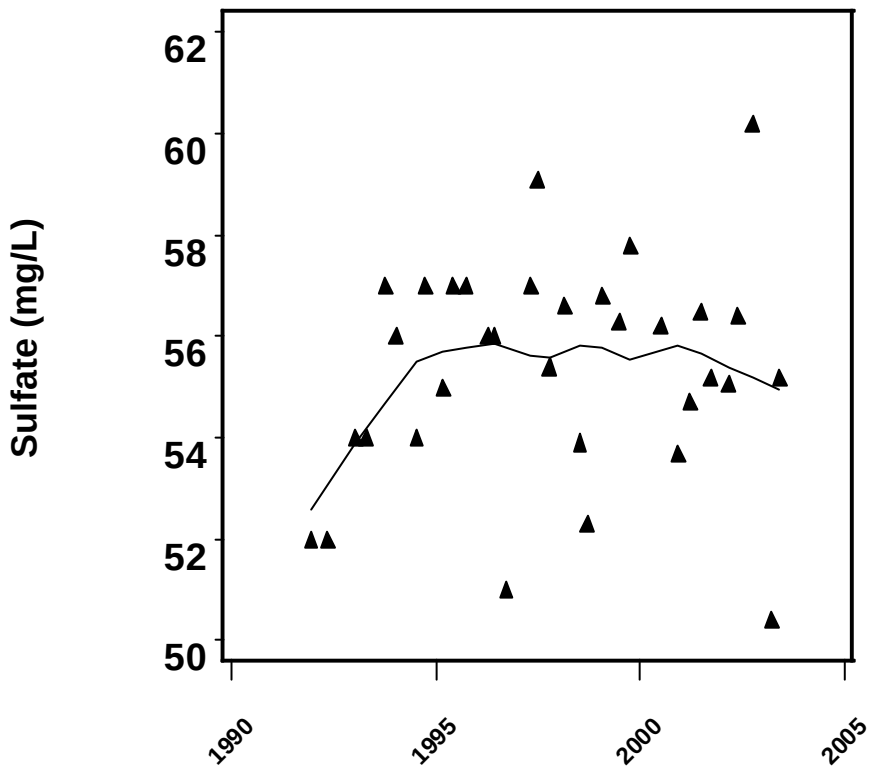
Appendix B-72. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 45 SUWANNEE.



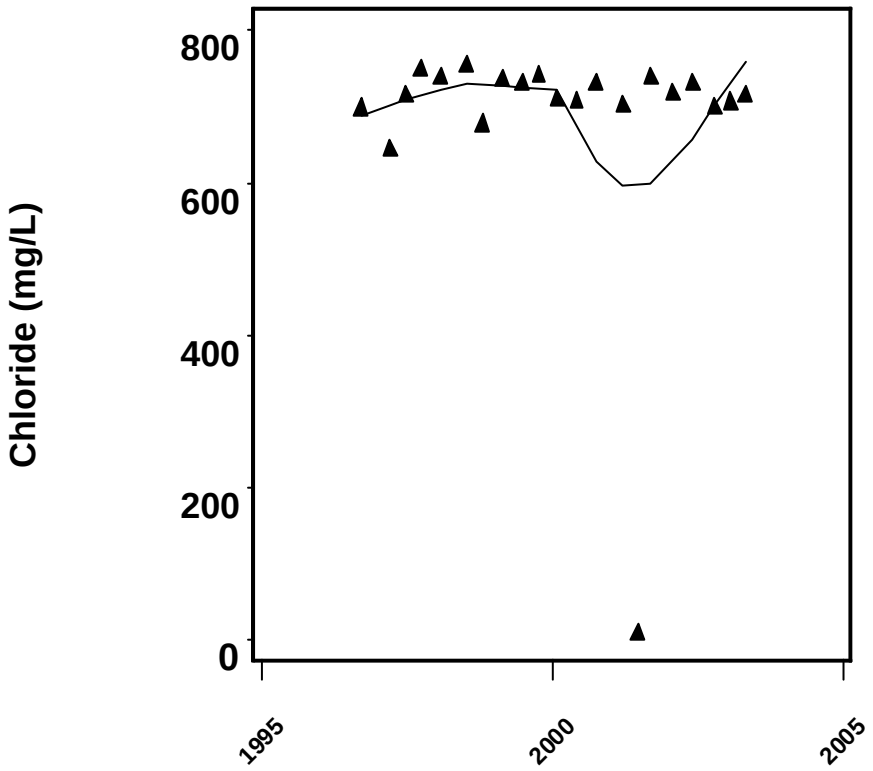


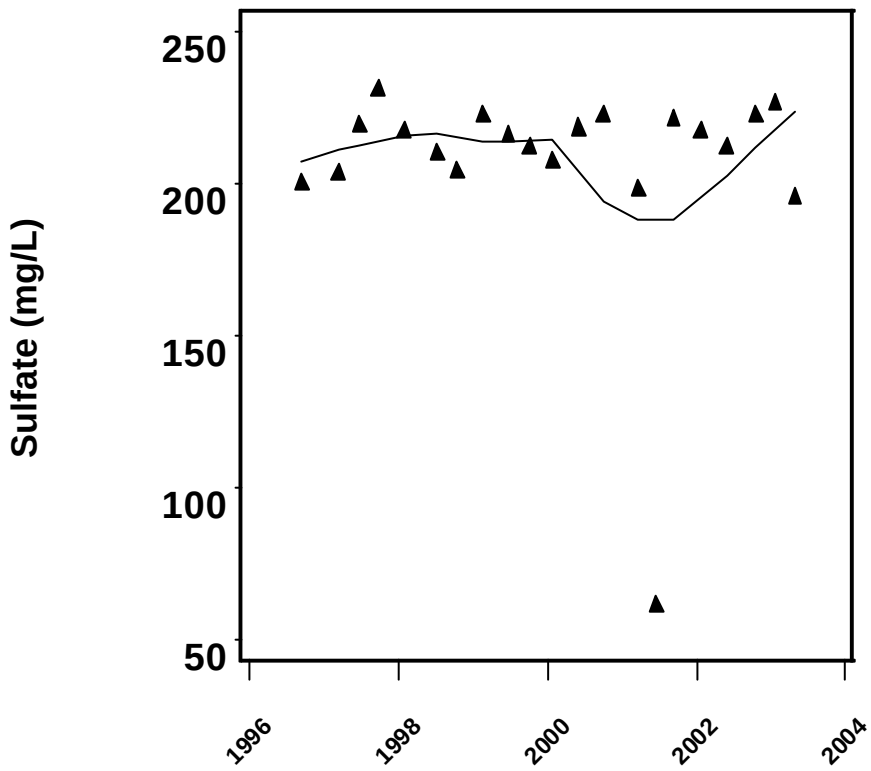
Appendix B-73. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 48FLORIDAN.



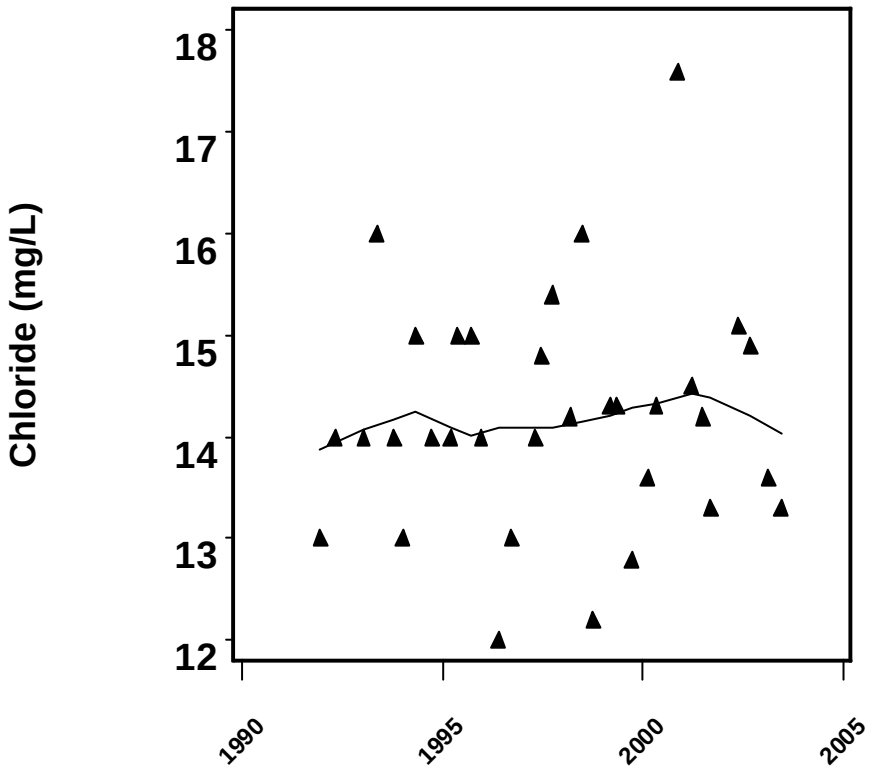


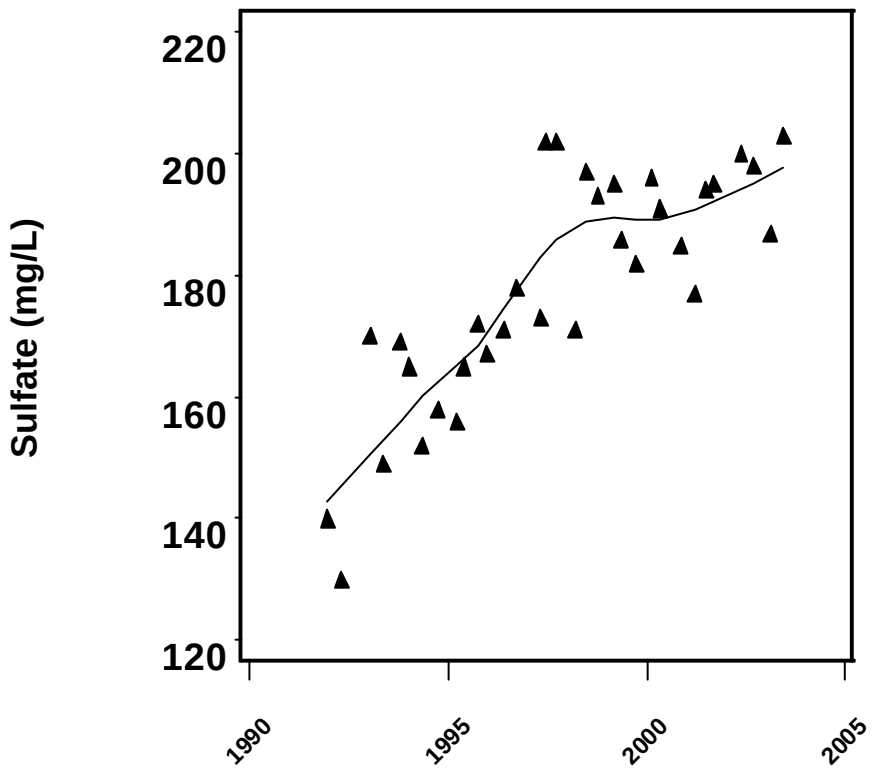
Appendix B-74. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 49 SWN.



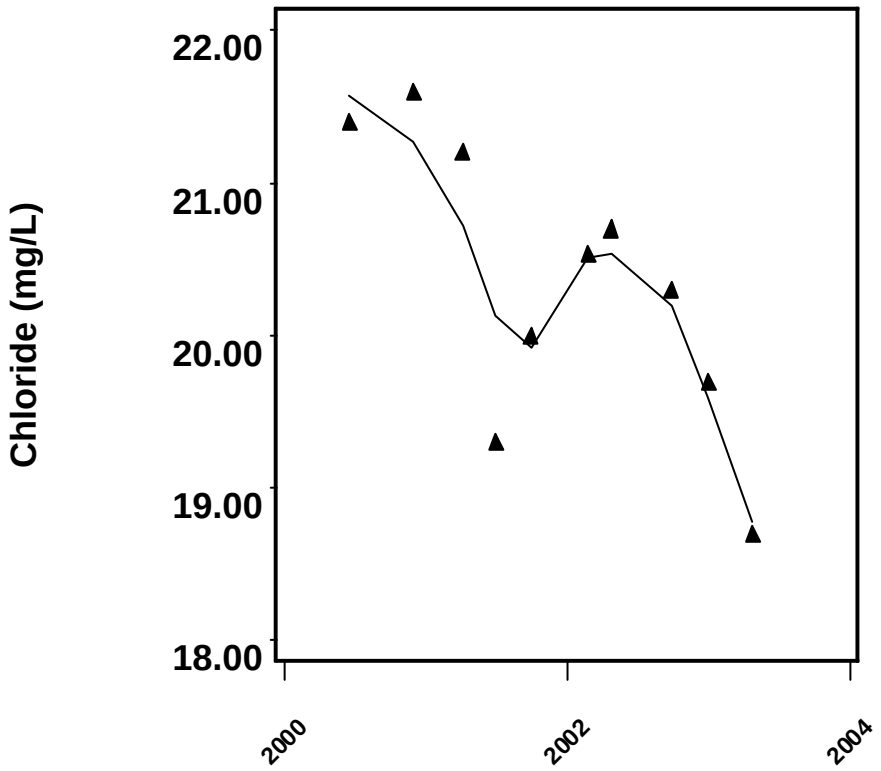


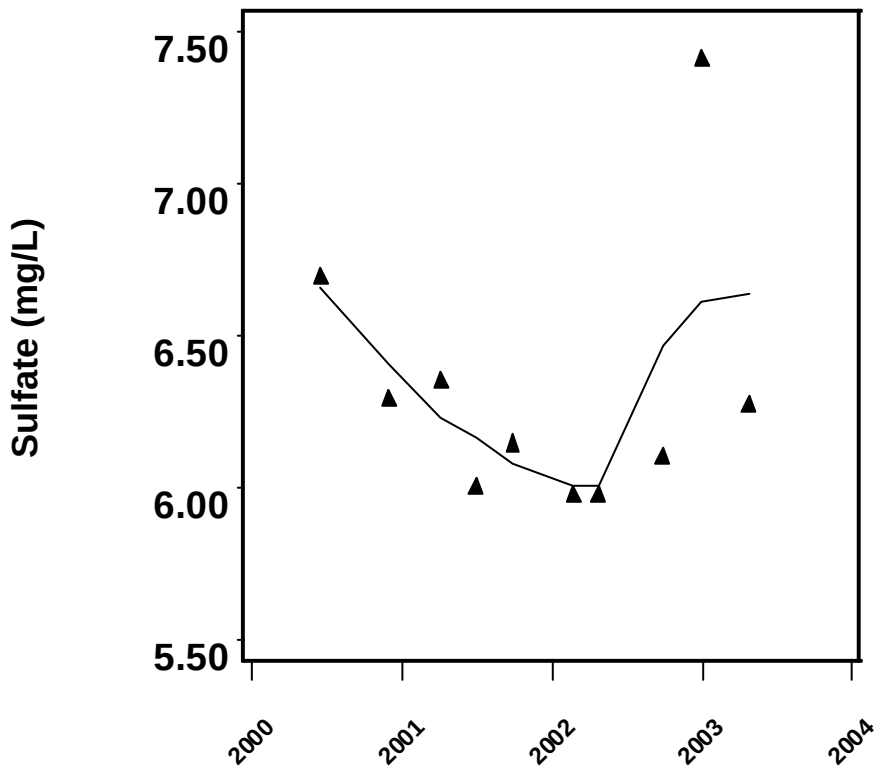
Appendix B-75. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 5 SWNN.



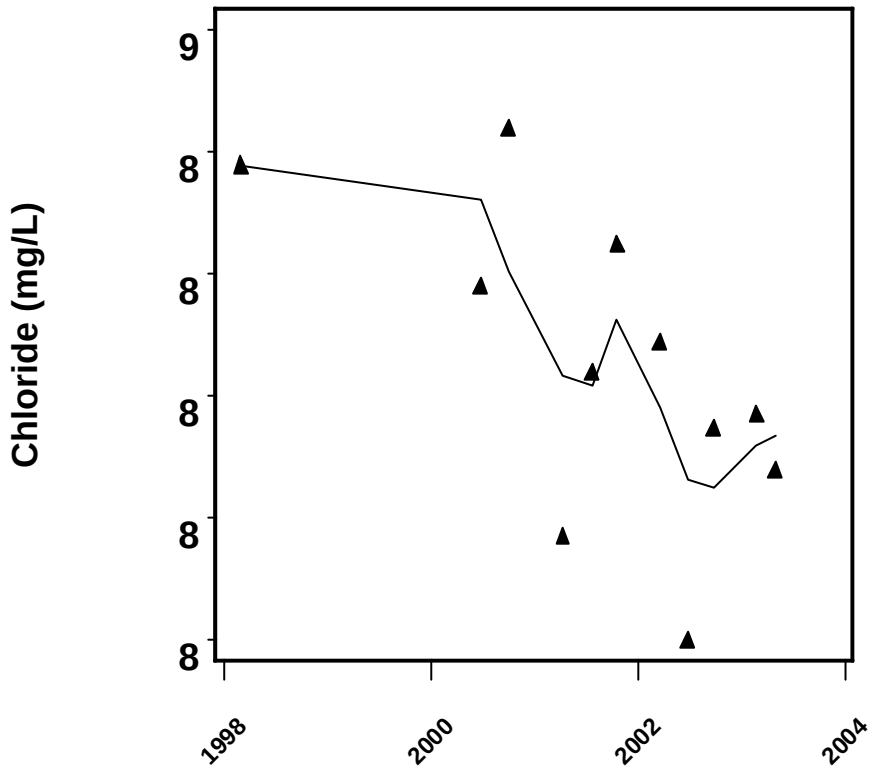


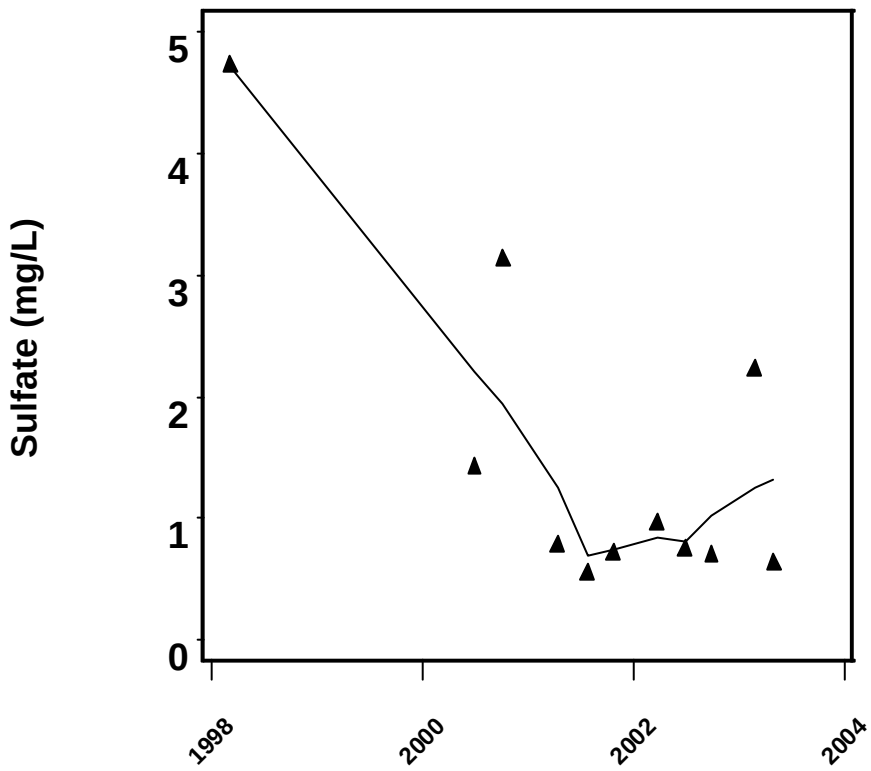
Appendix B-76. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 50FLORIDAN.



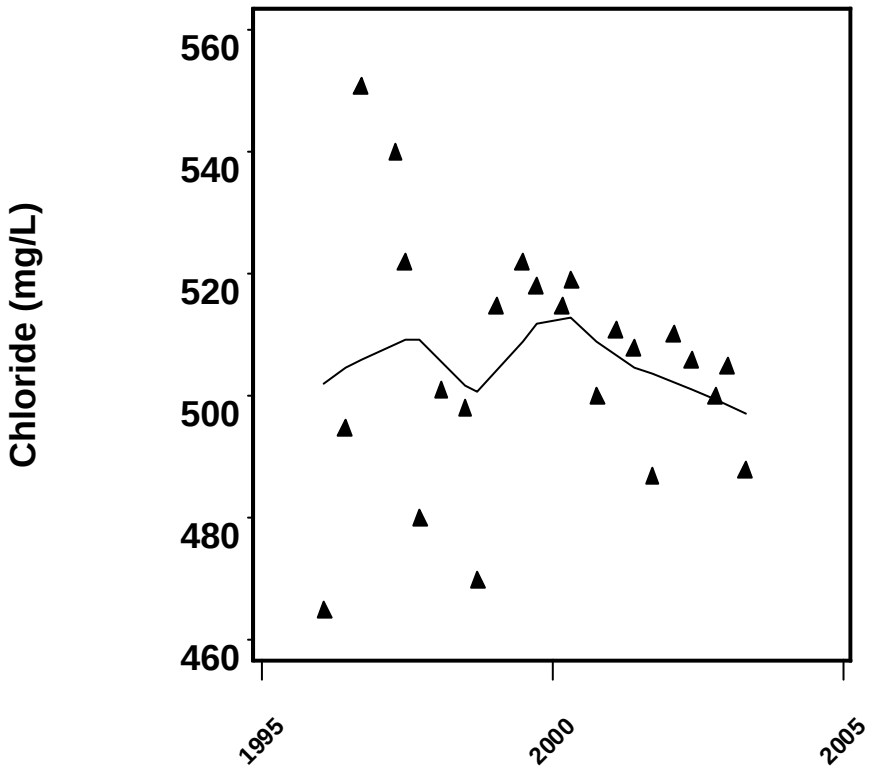


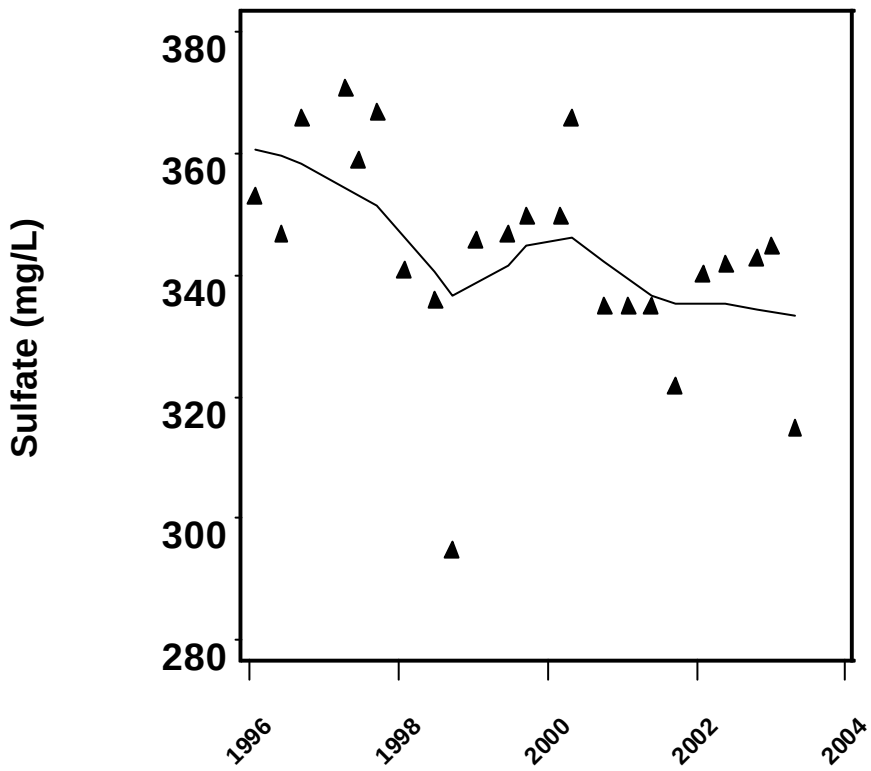
Appendix B-77. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 57-1 FLORIDAN.



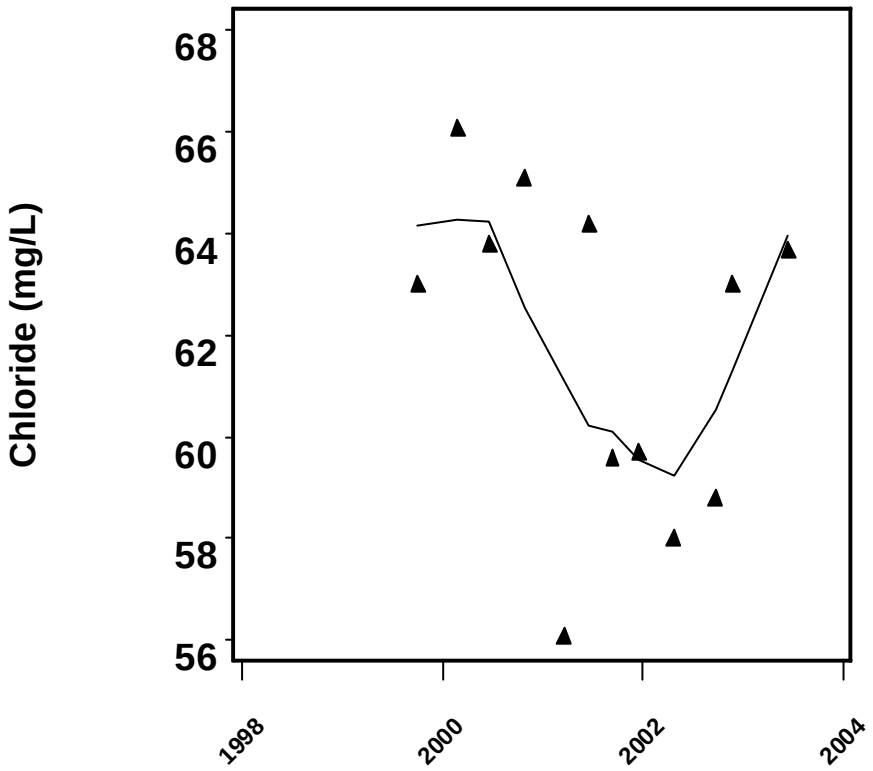


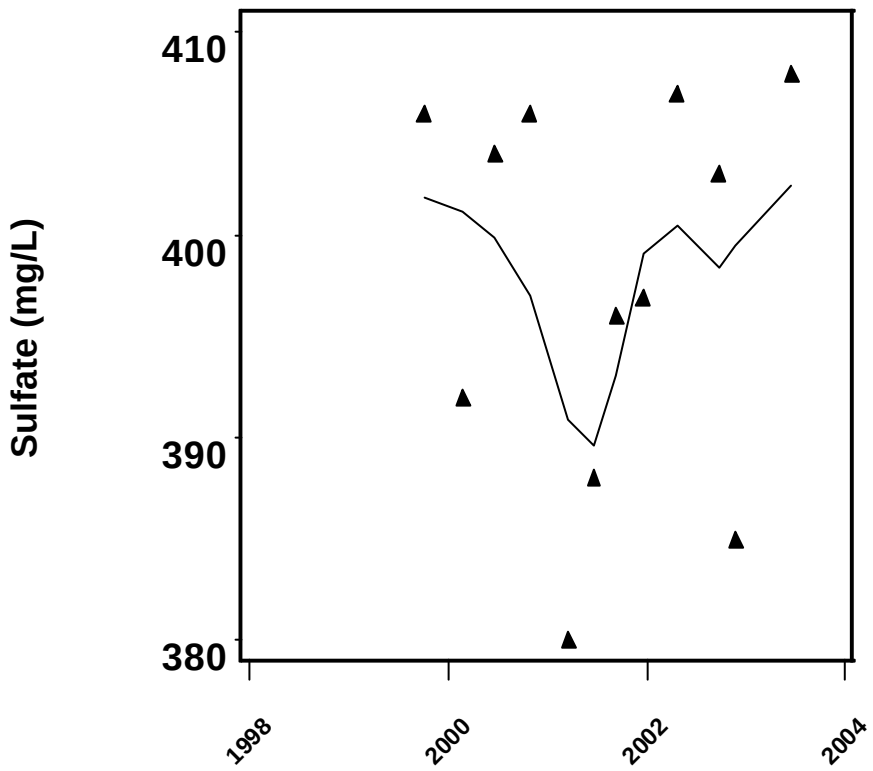
Appendix B-78. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 60 DEEP.



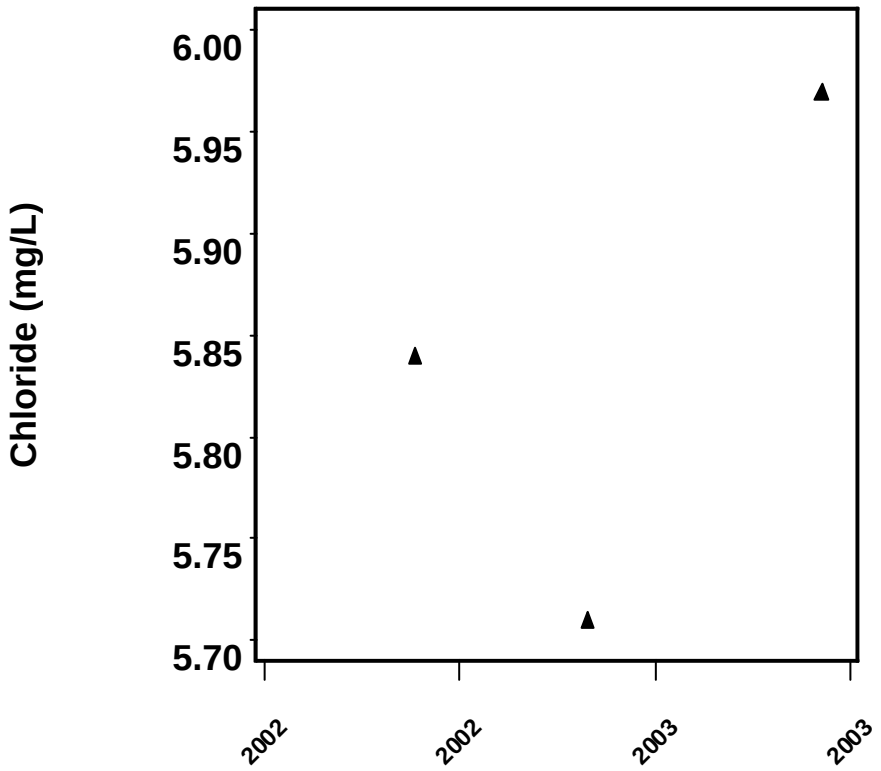


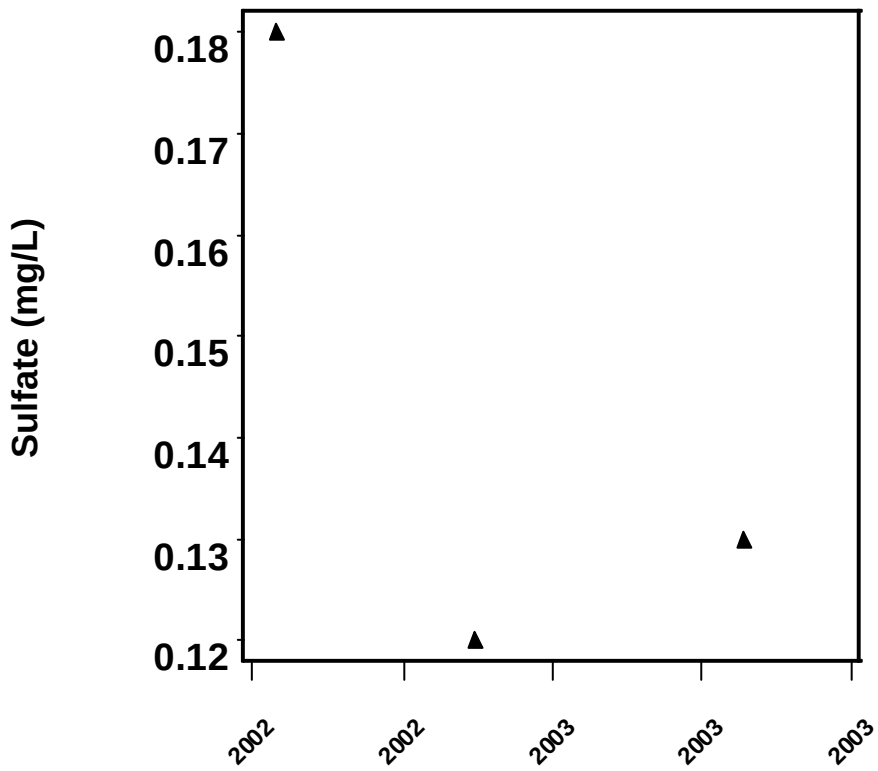
Appendix B-79. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9 SWNN.



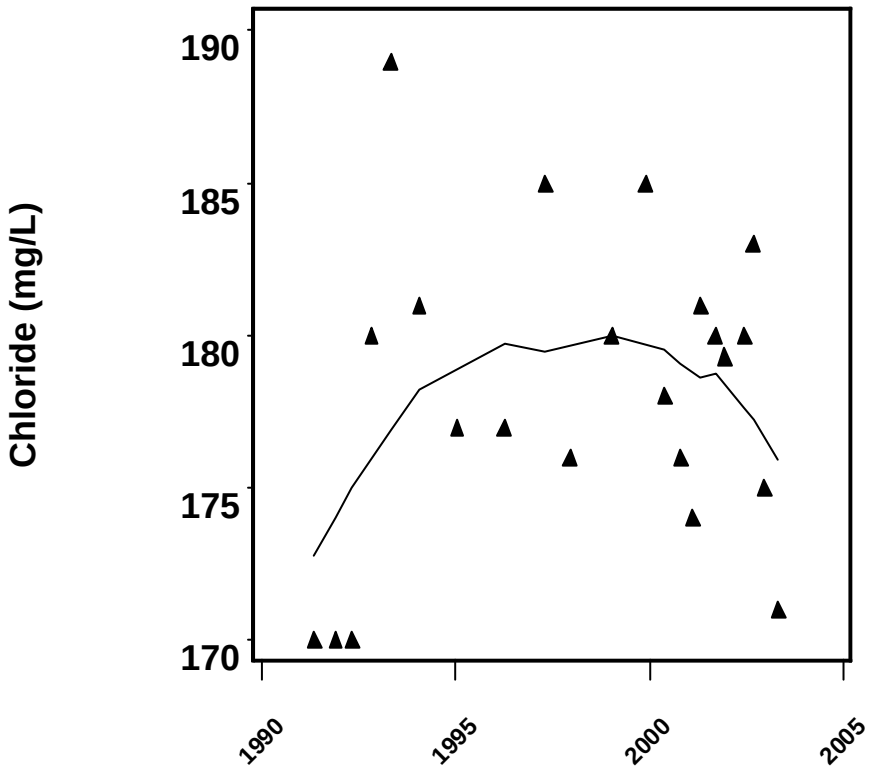


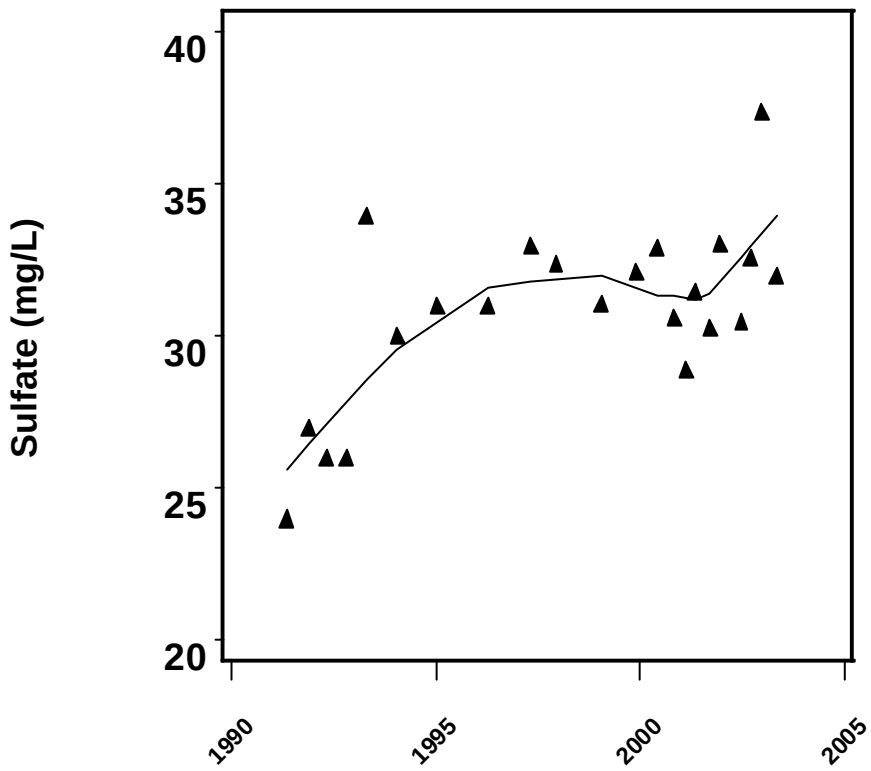
Appendix B-80. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9.5 UP FL.



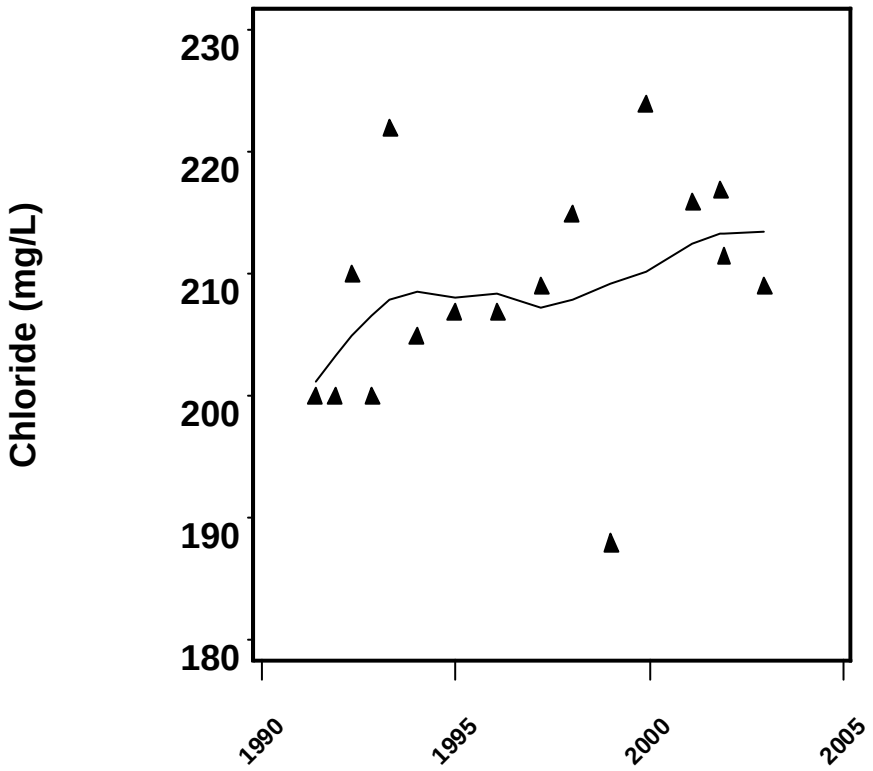


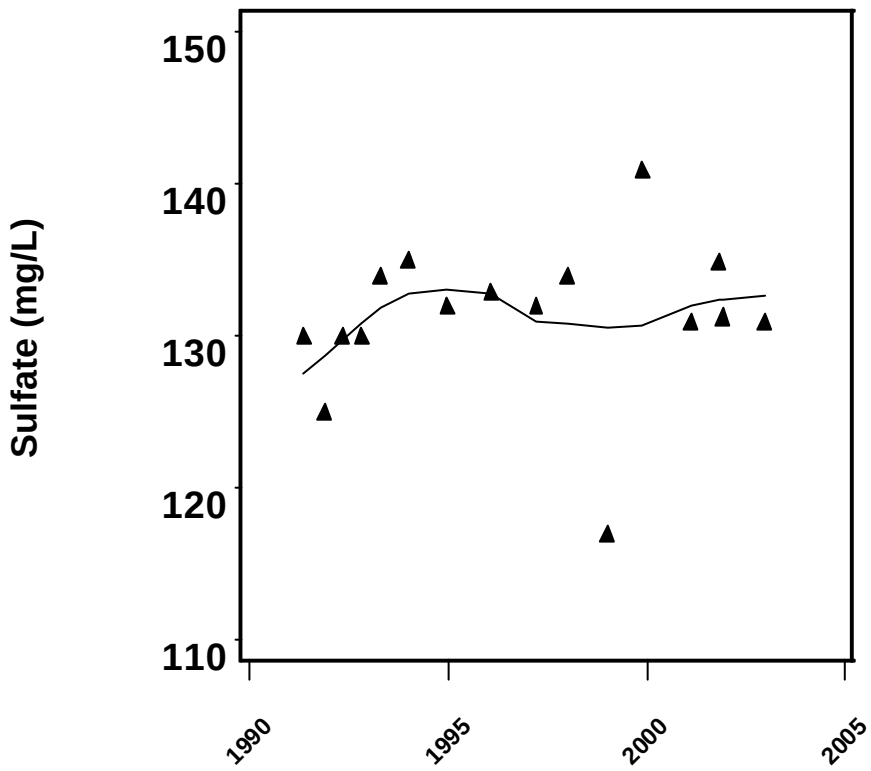
Appendix B-81. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP DV-1 SUWANNEE.



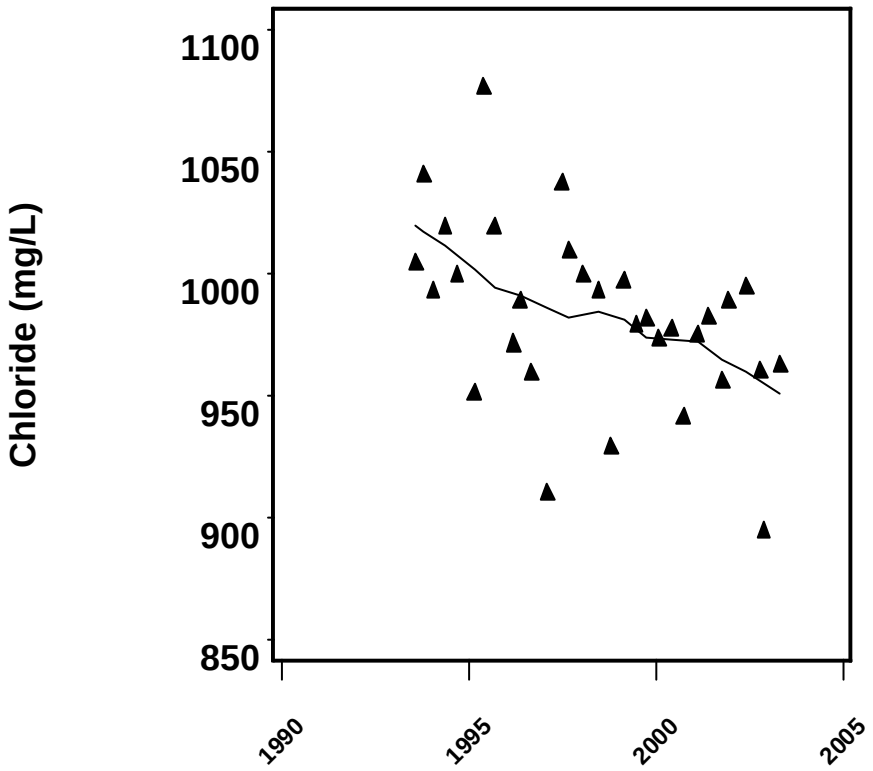


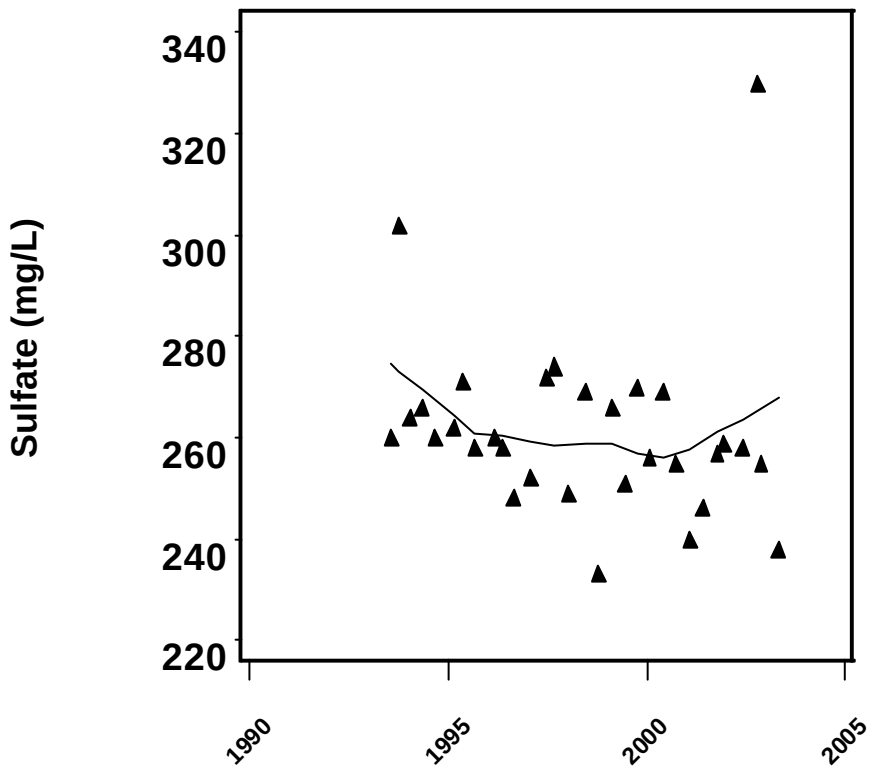
Appendix B-82. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 10-2 DEEP.



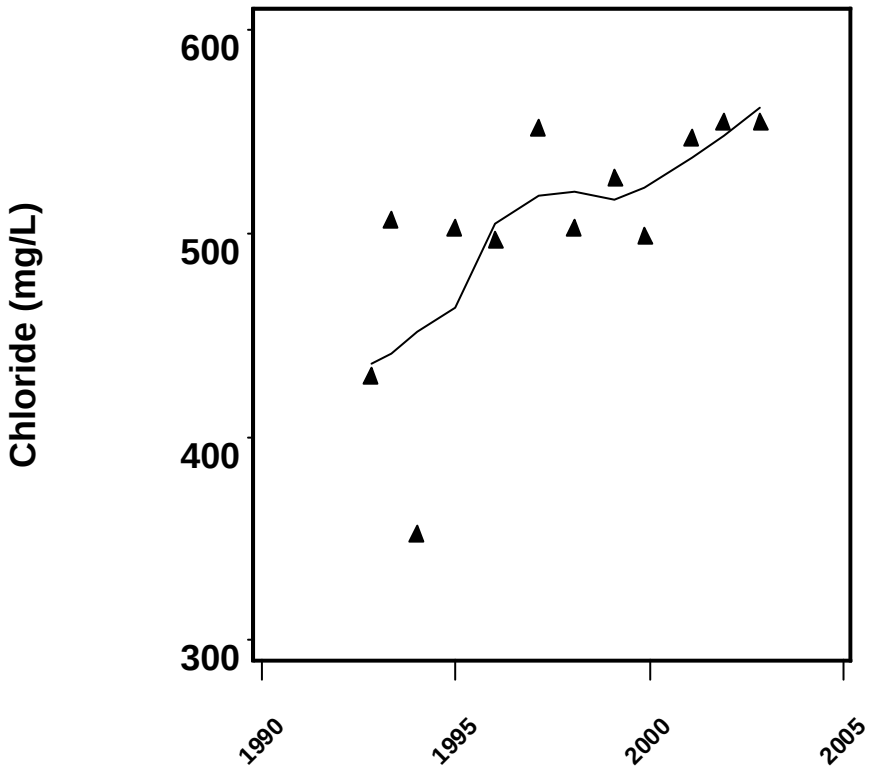


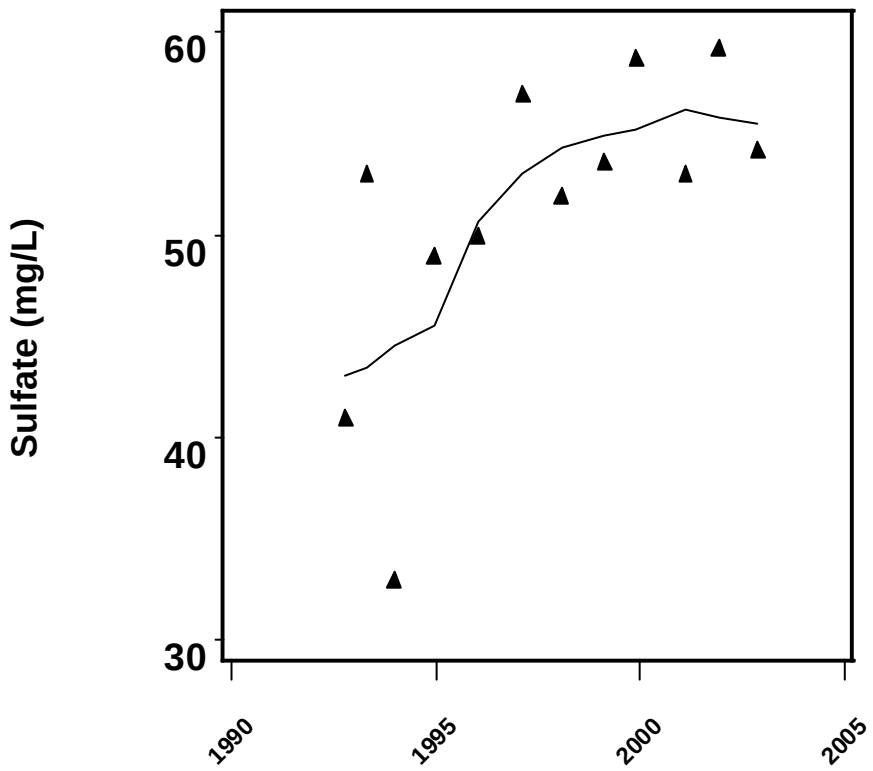
Appendix B-83. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 11-2.



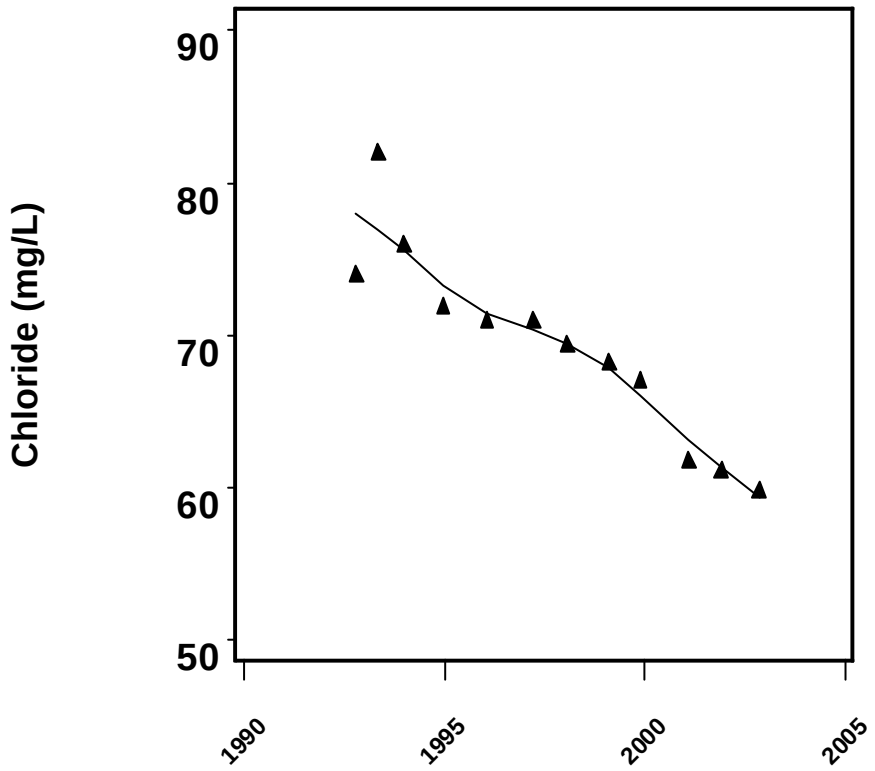


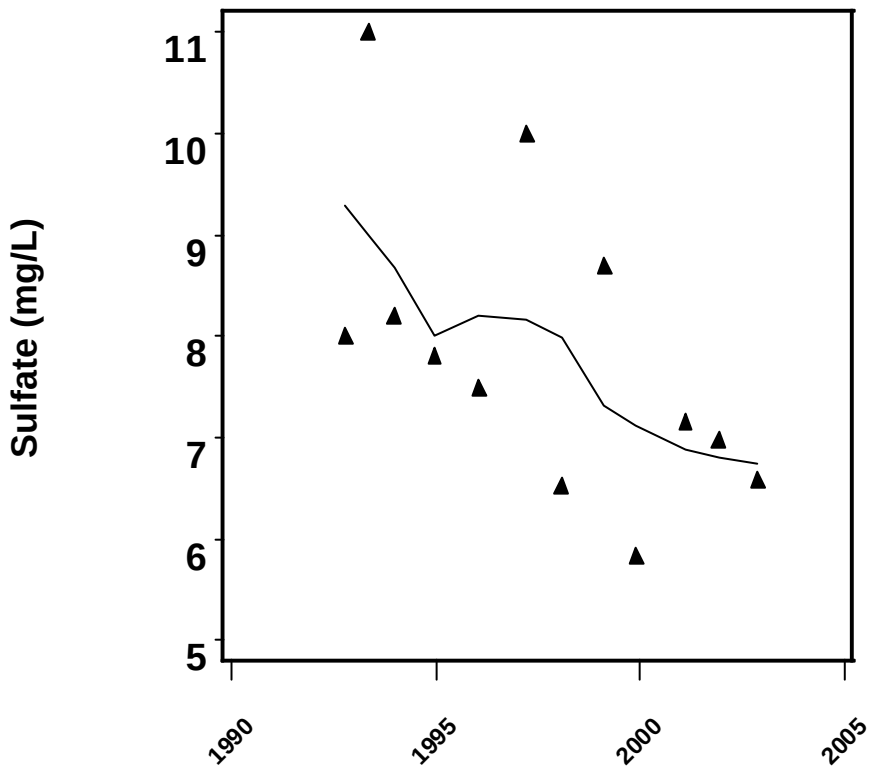
Appendix B-84. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 1-2 SWNN.



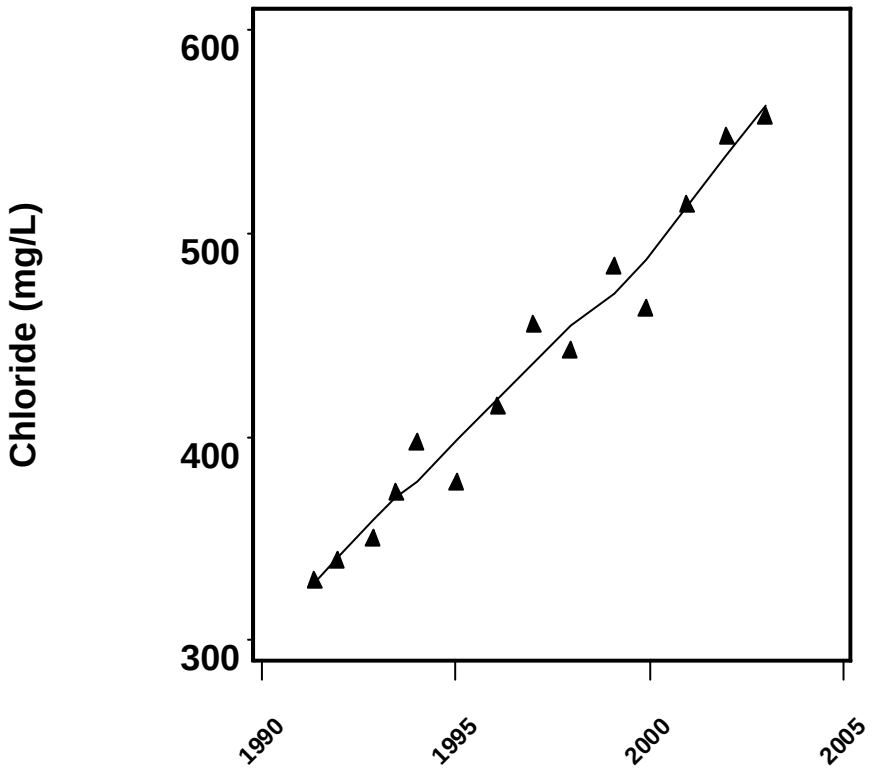


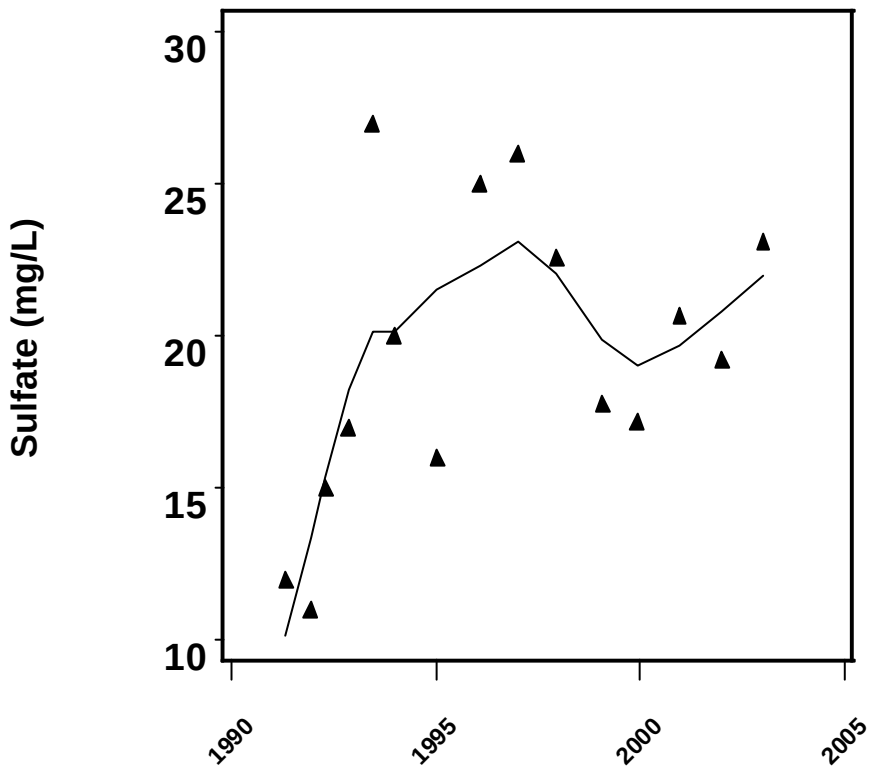
Appendix B-85. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12-1 DEEP (NEW).



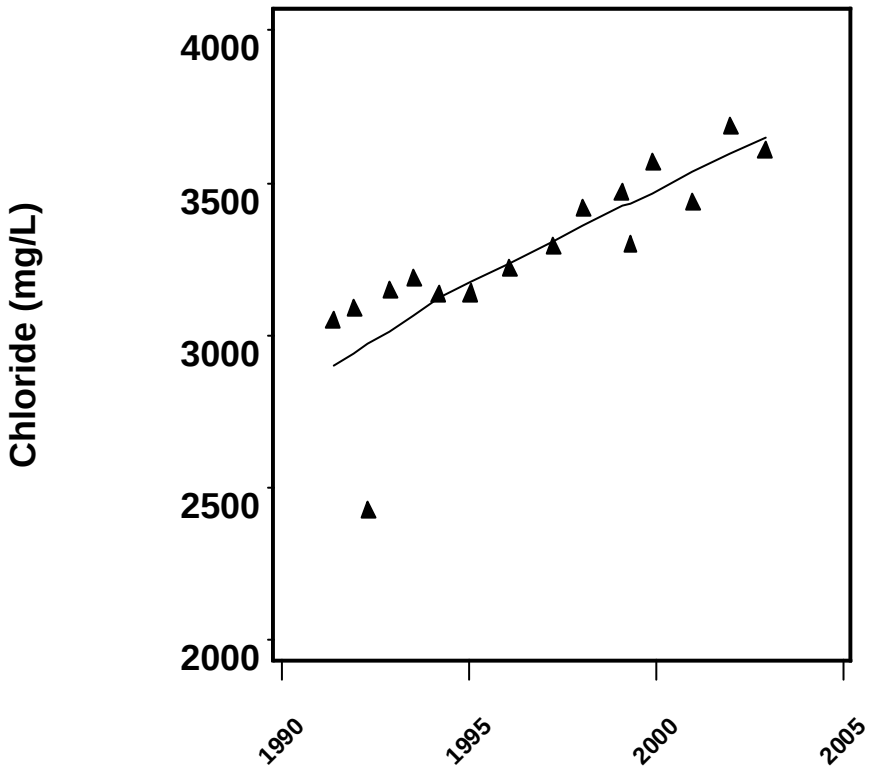


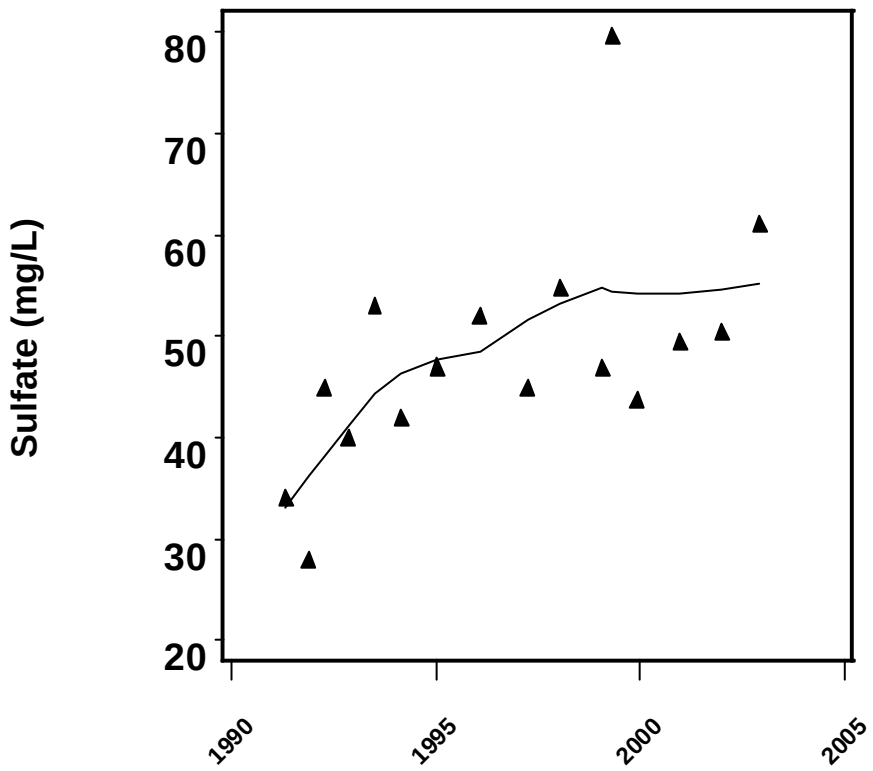
Appendix B-86. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12-3 (NEW).



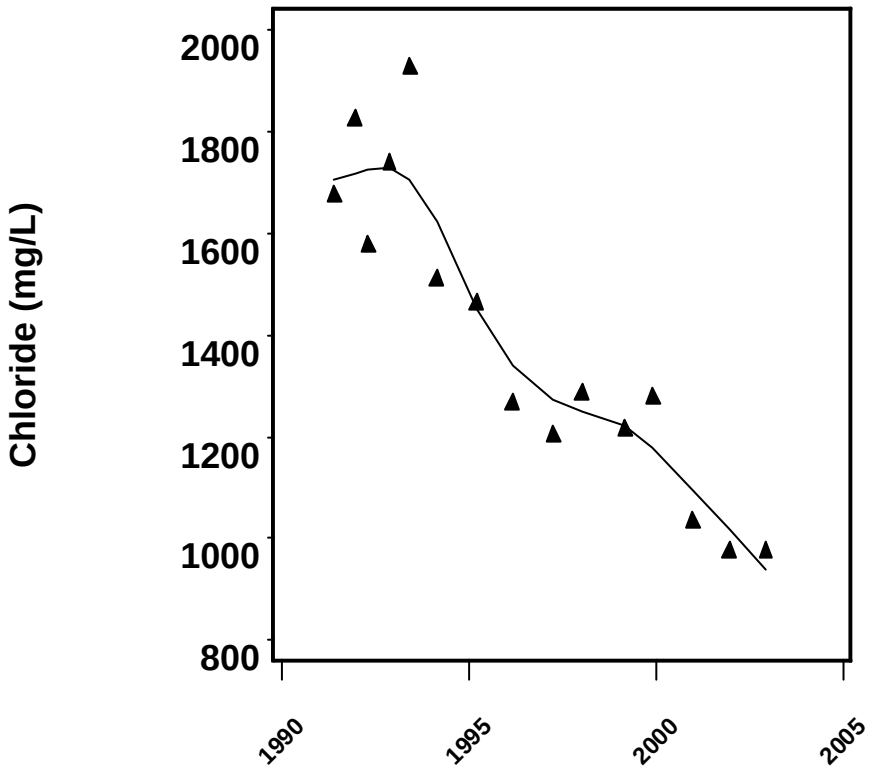


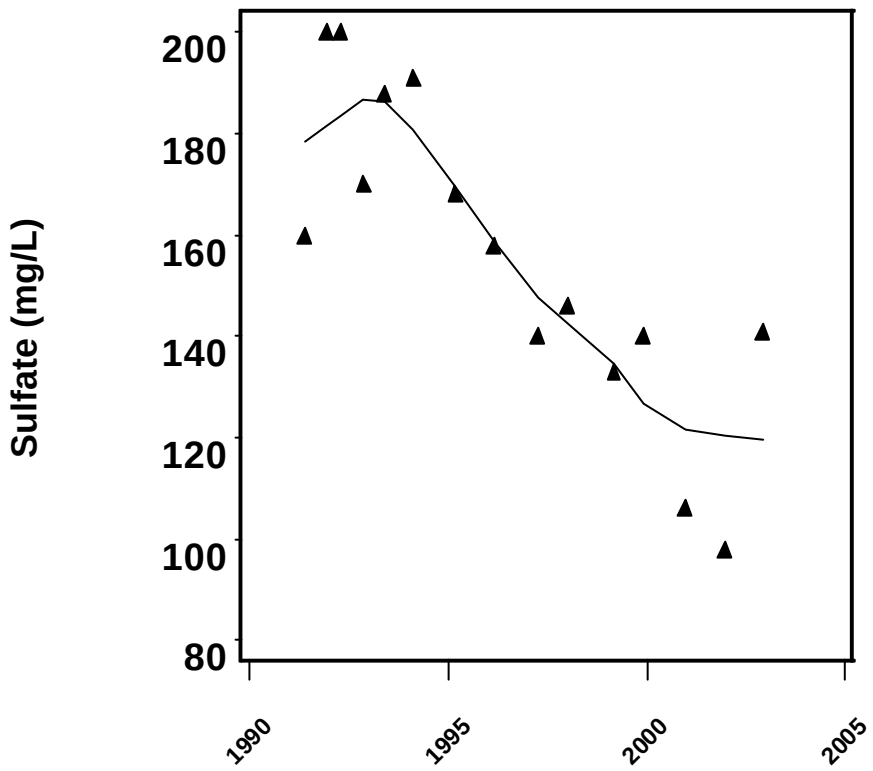
Appendix B-87. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 13-1 SUWANNEE.



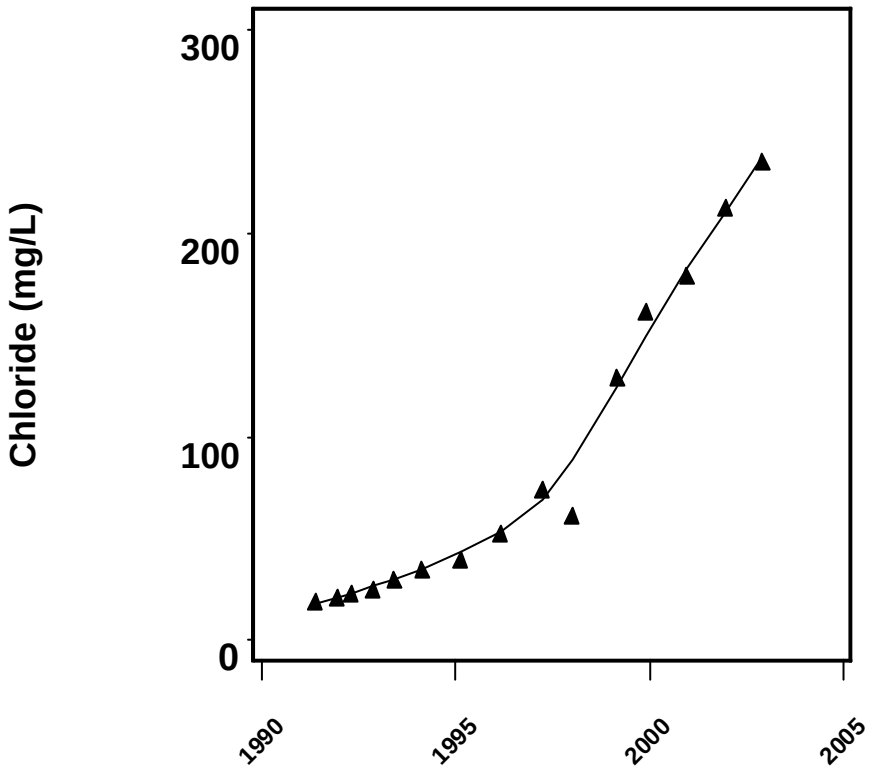


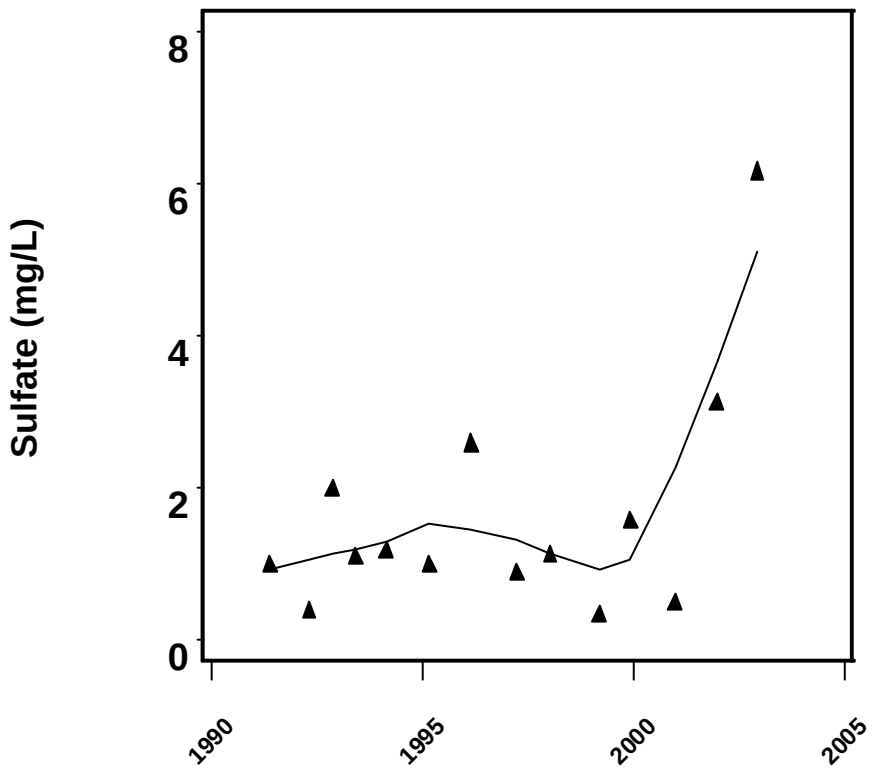
Appendix B-88. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 13-2X SUWANNEE.



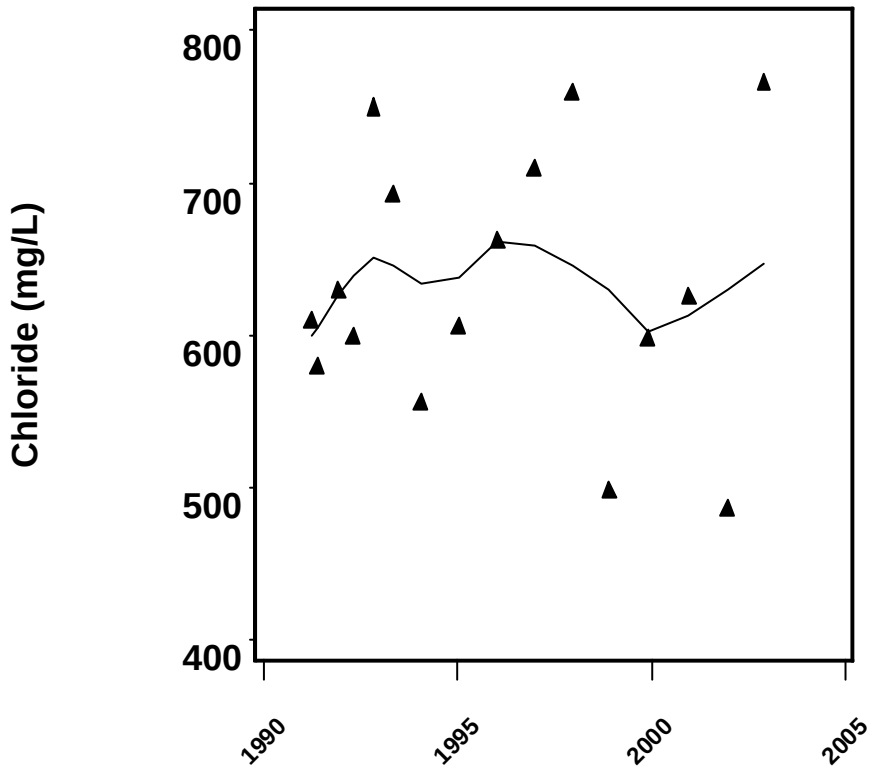


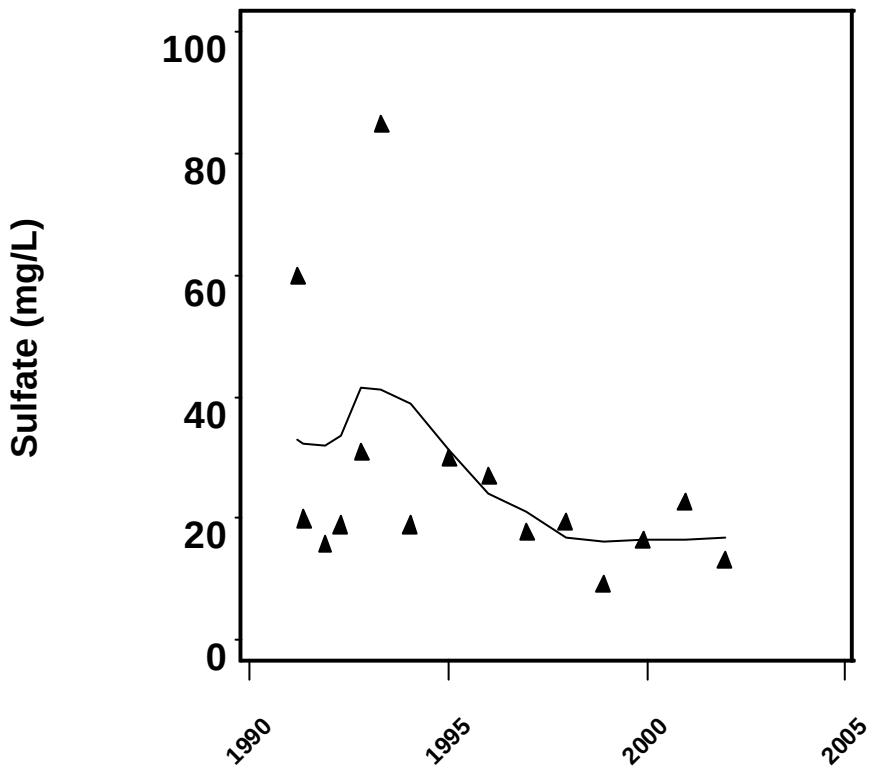
Appendix B-89. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 14-2 TAMPA.



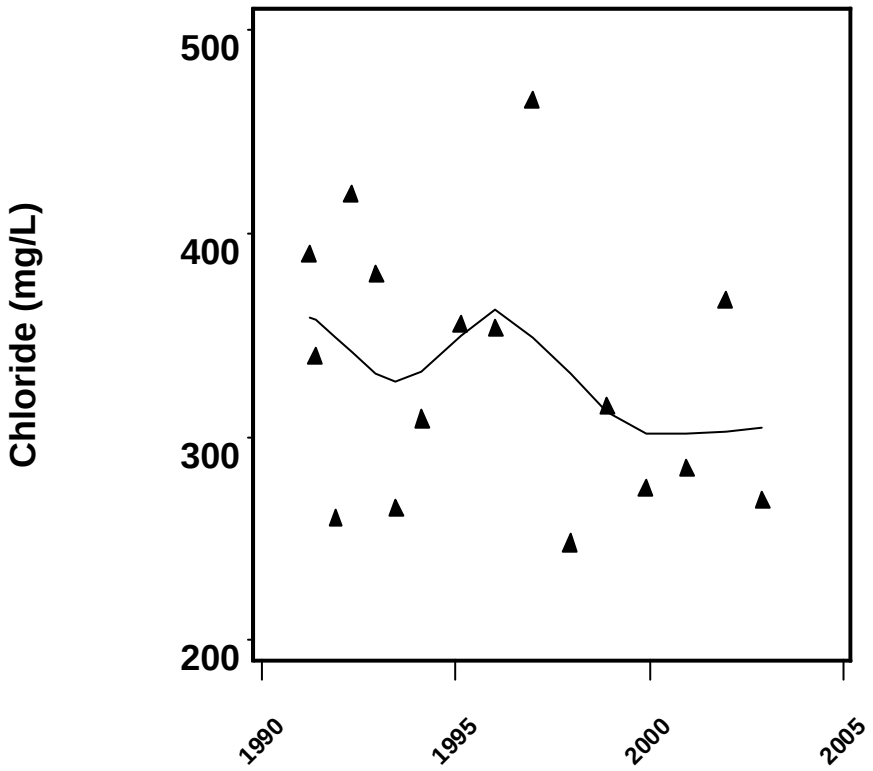


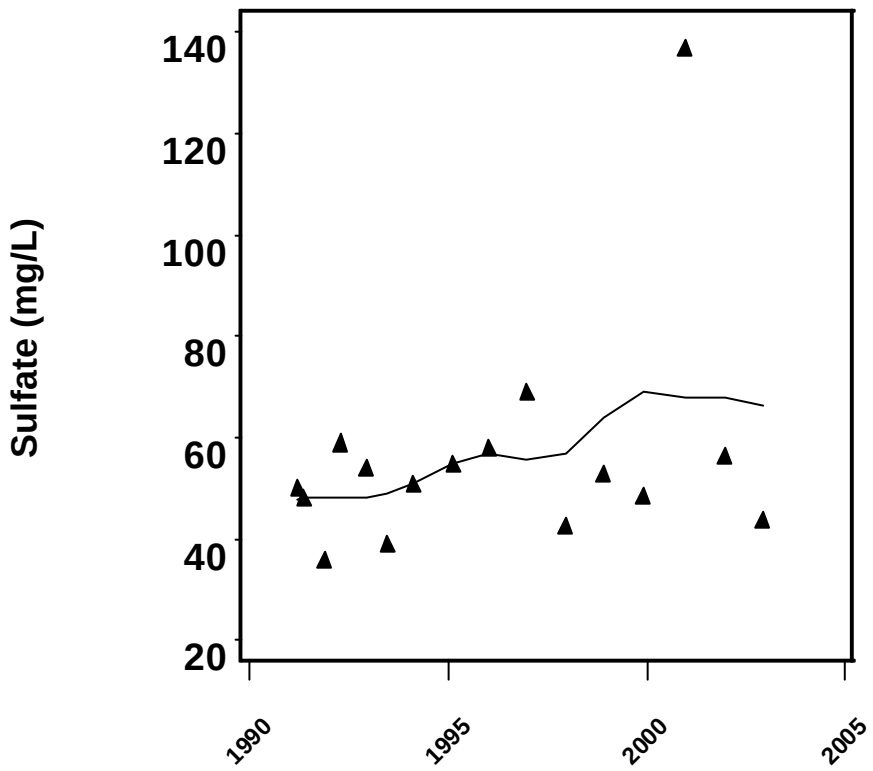
Appendix B-90. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 14-3 SWNN.



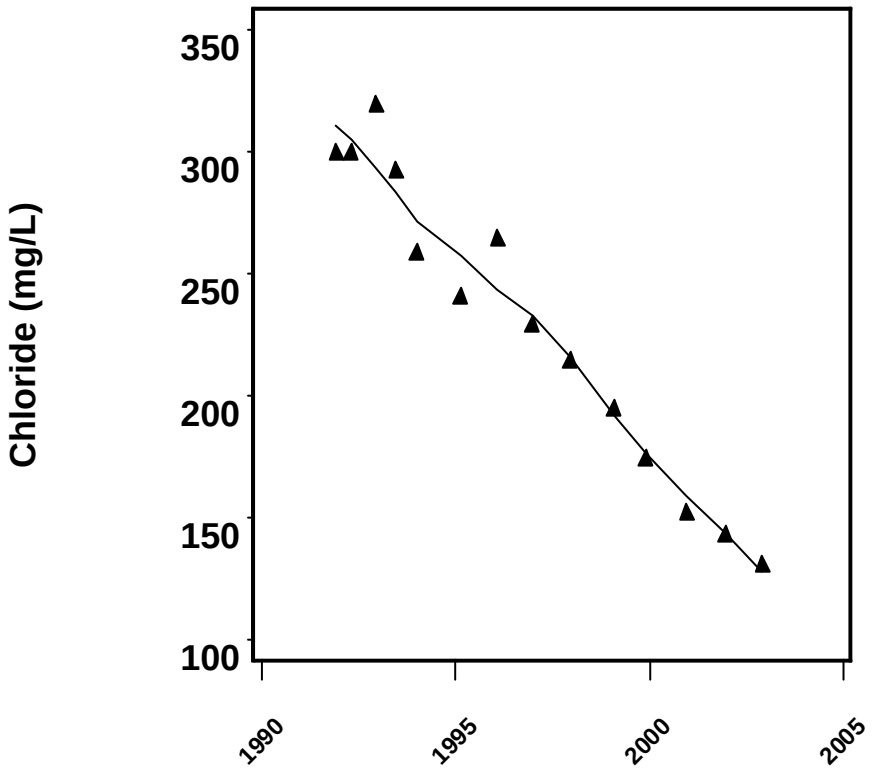


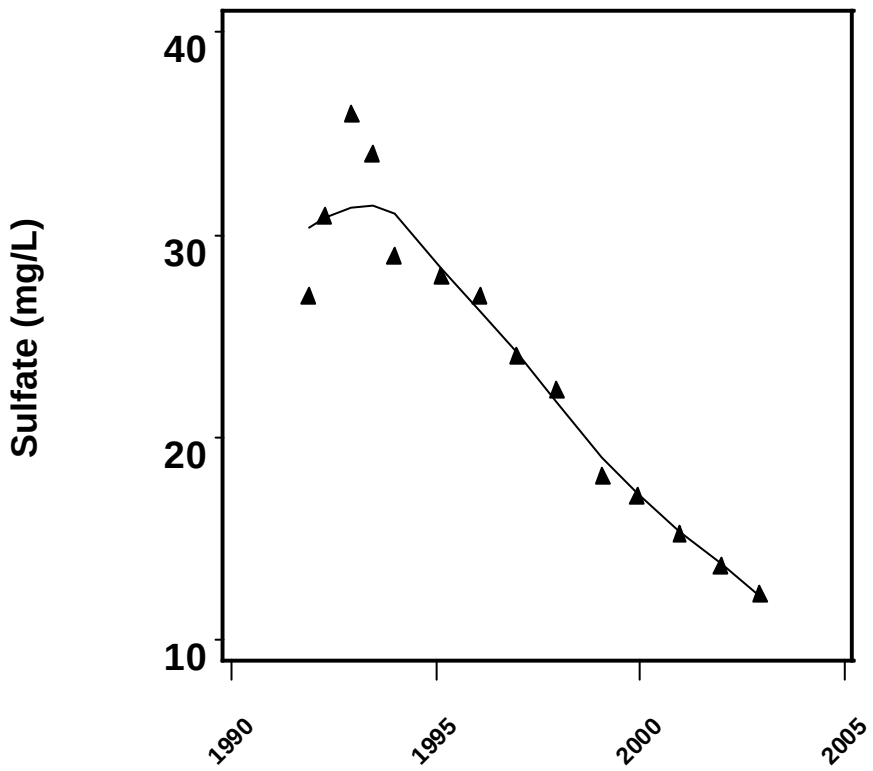
Appendix B-91. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 15-1 TAMPA.



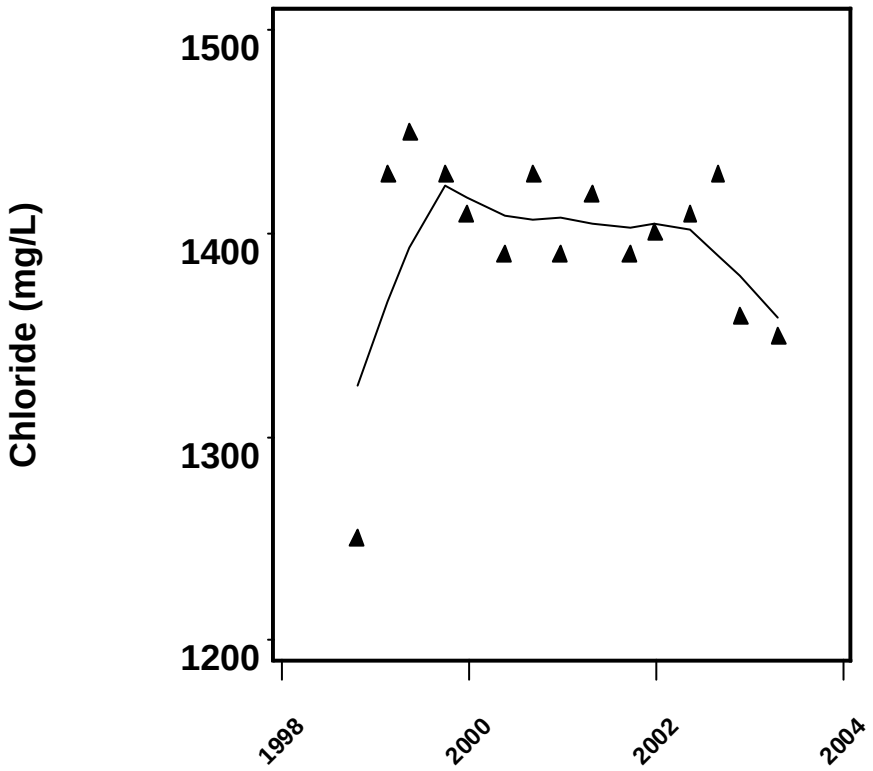


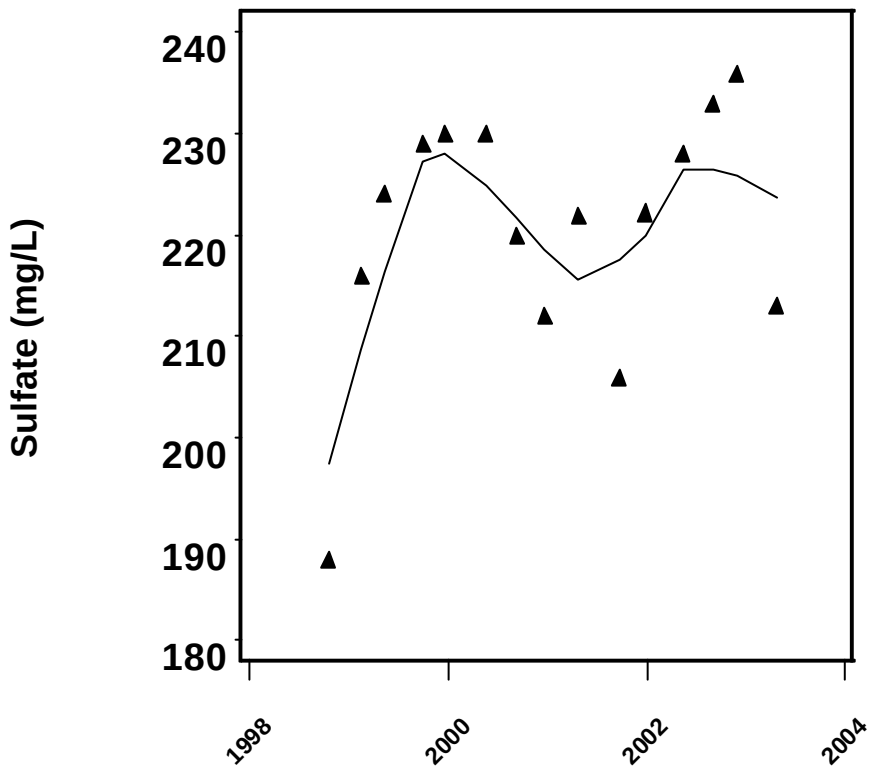
Appendix B-92. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 15-2 TAMPA.



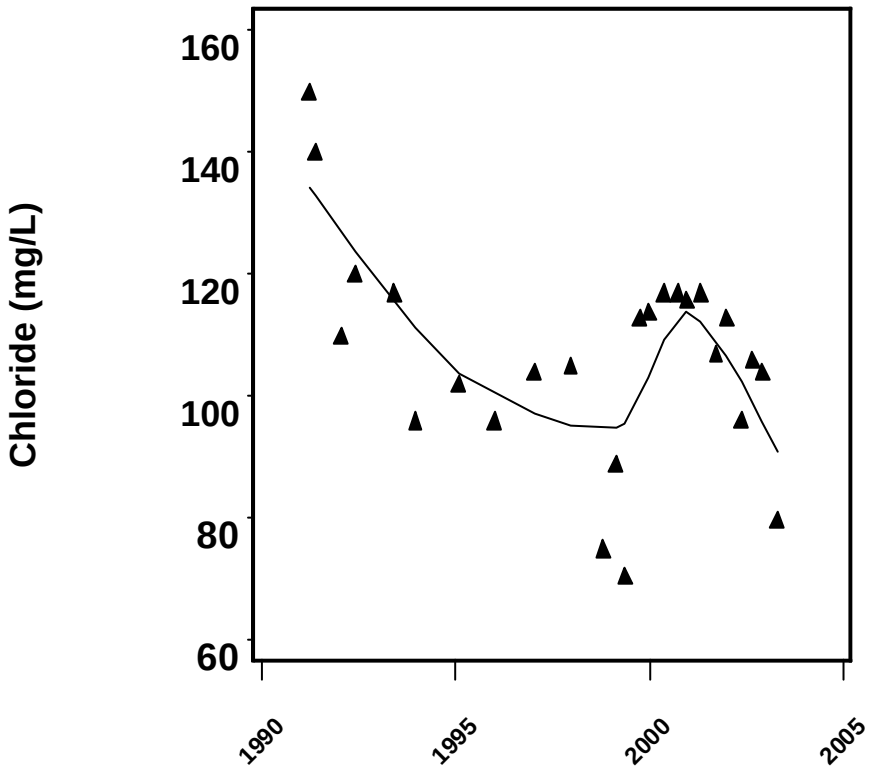


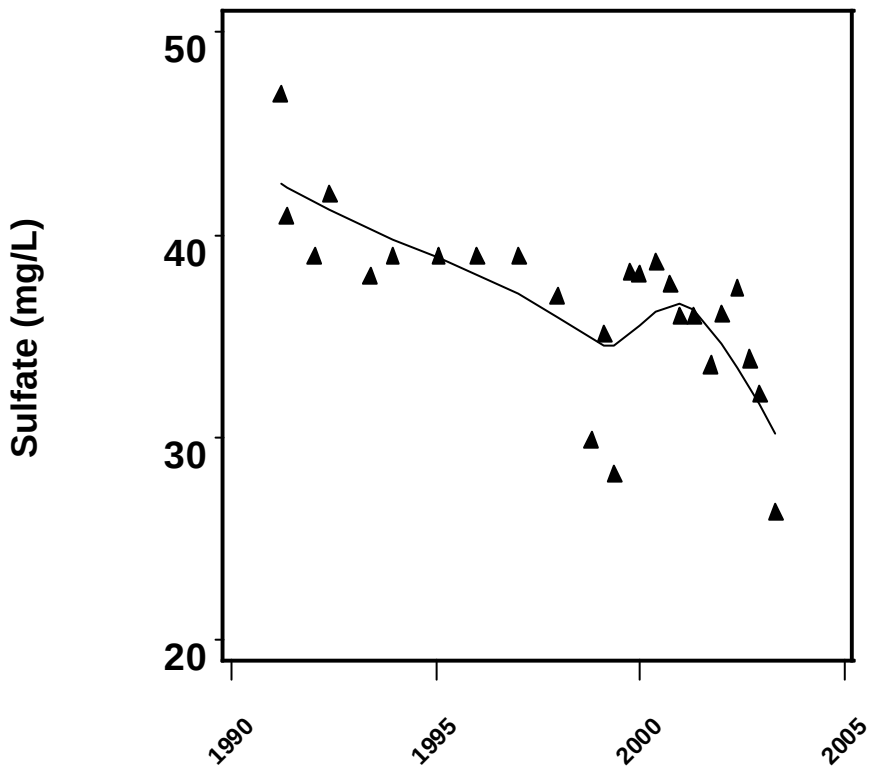
Appendix B-93. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 15-3 SWNN.



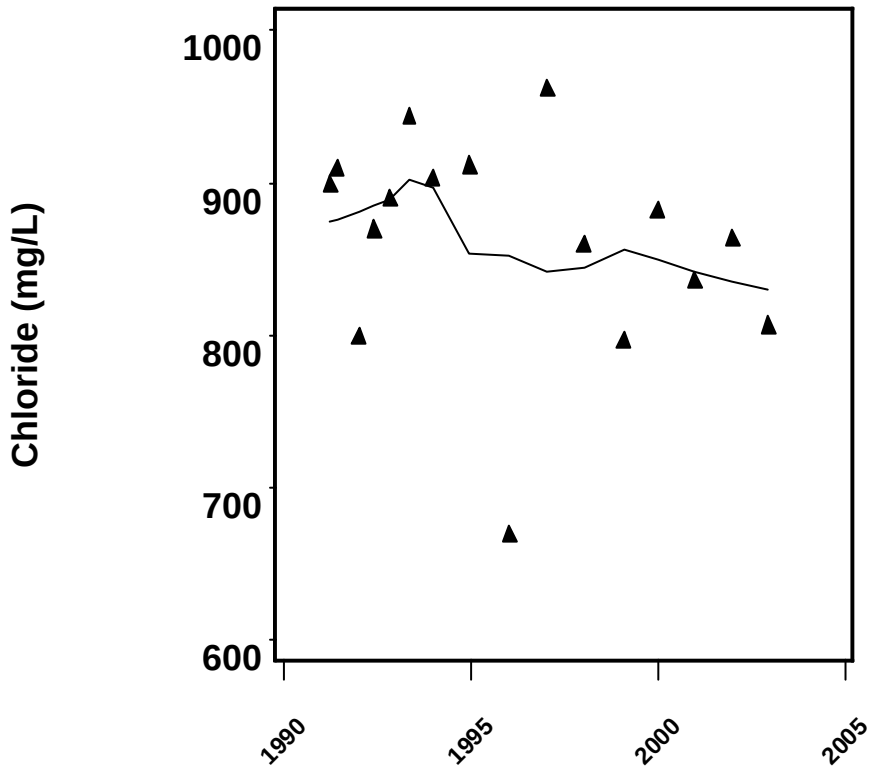


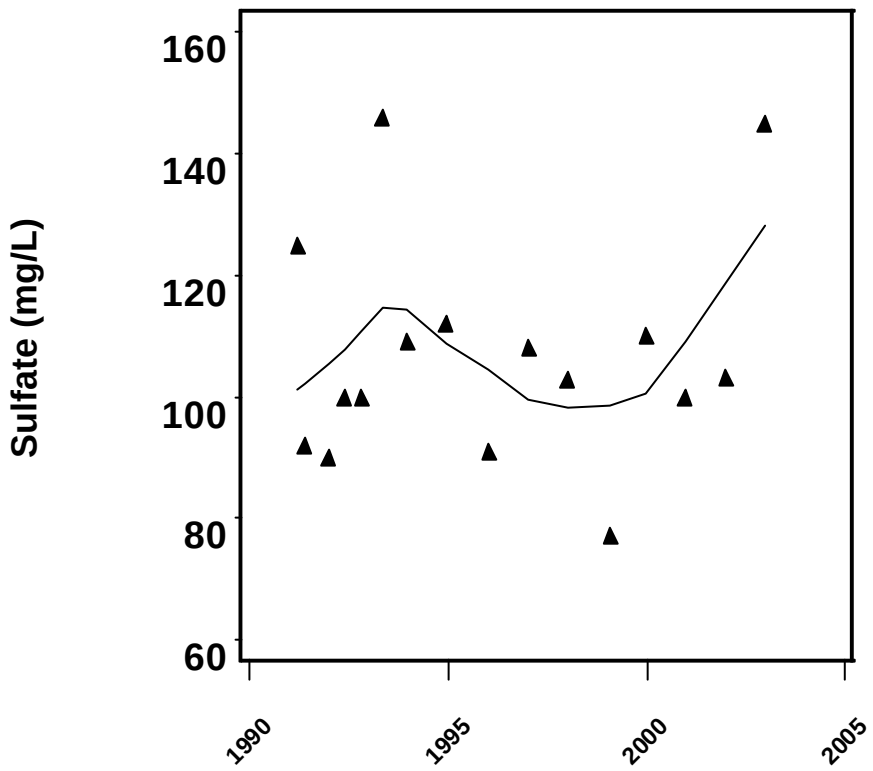
Appendix B-94. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 16-2 SH TRIPLE ZONE



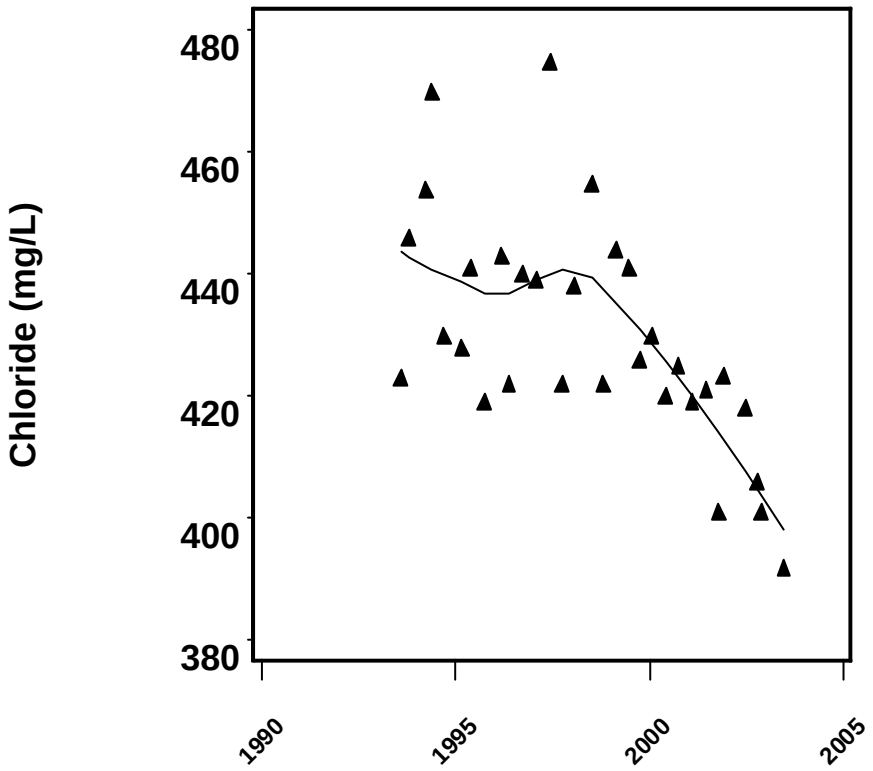


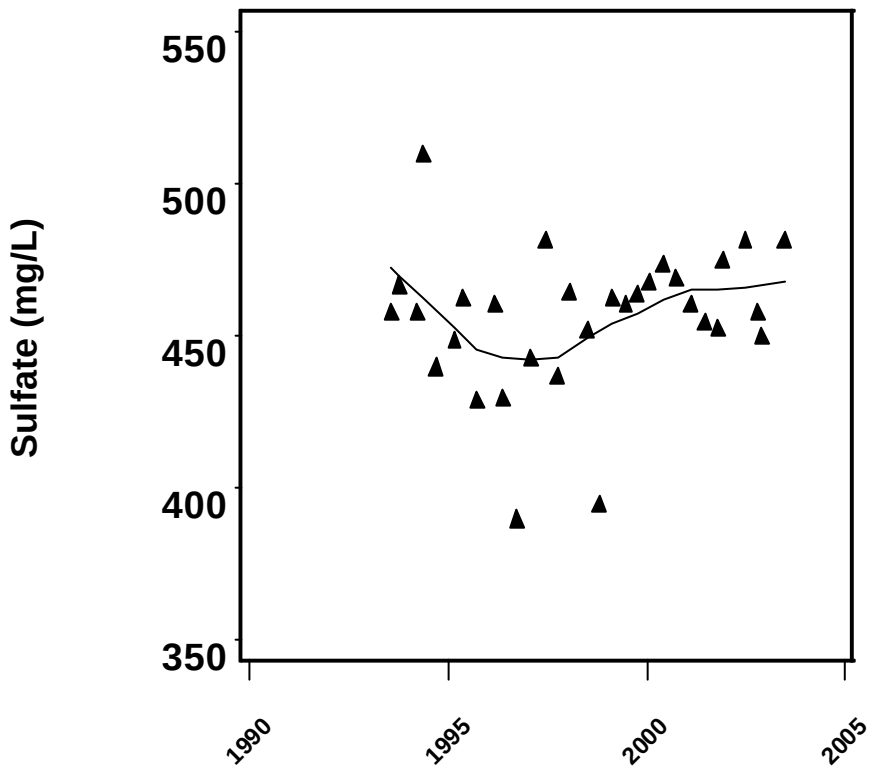
Appendix B-95. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 16-2.



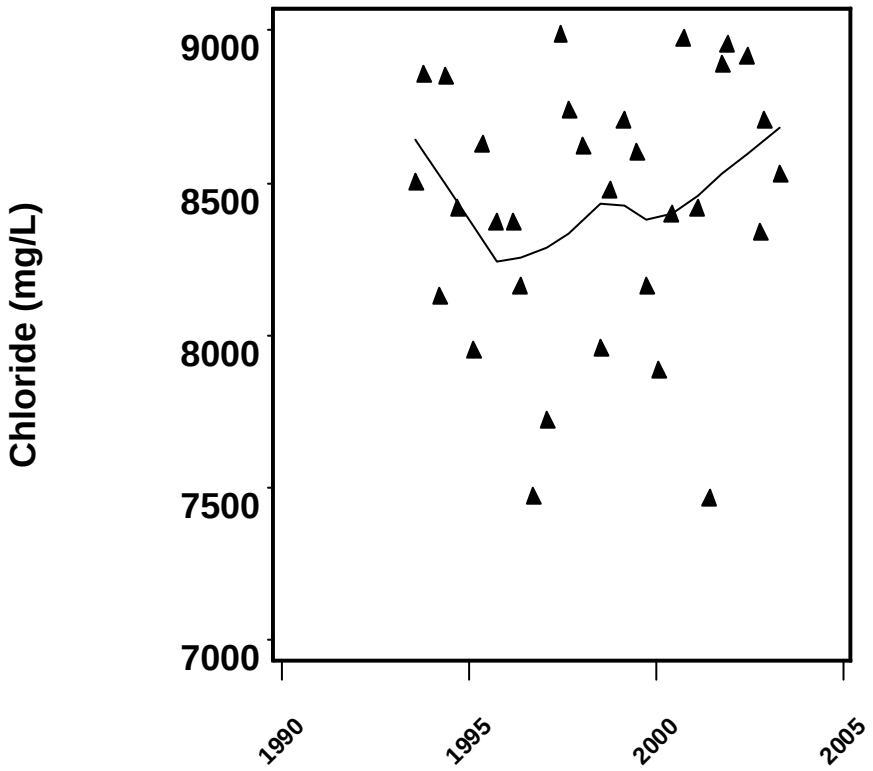


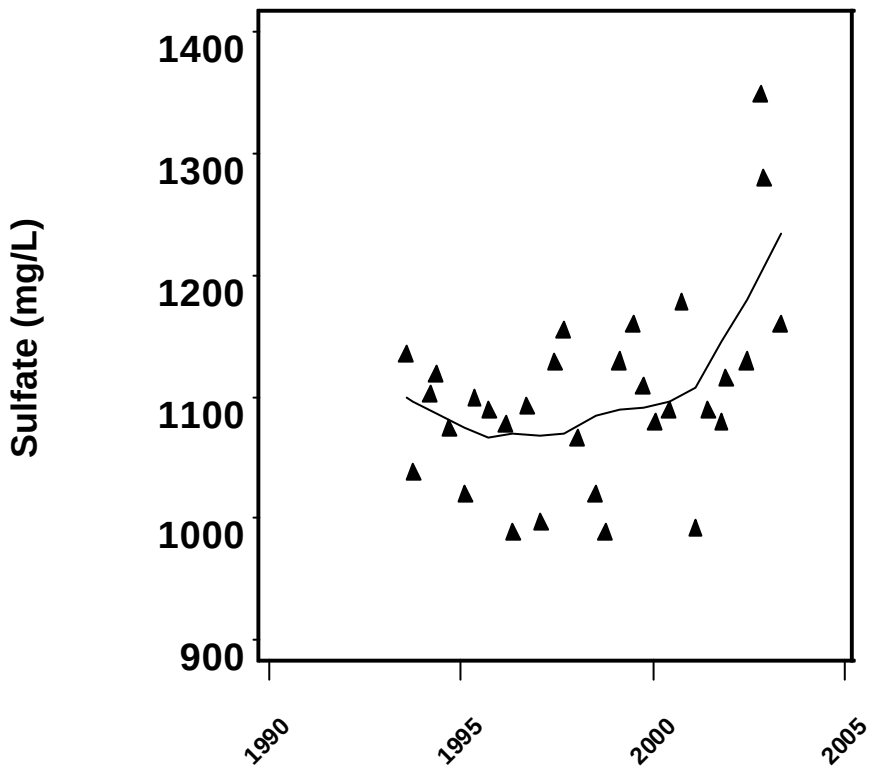
Appendix B-96. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 17-1 DEEP.



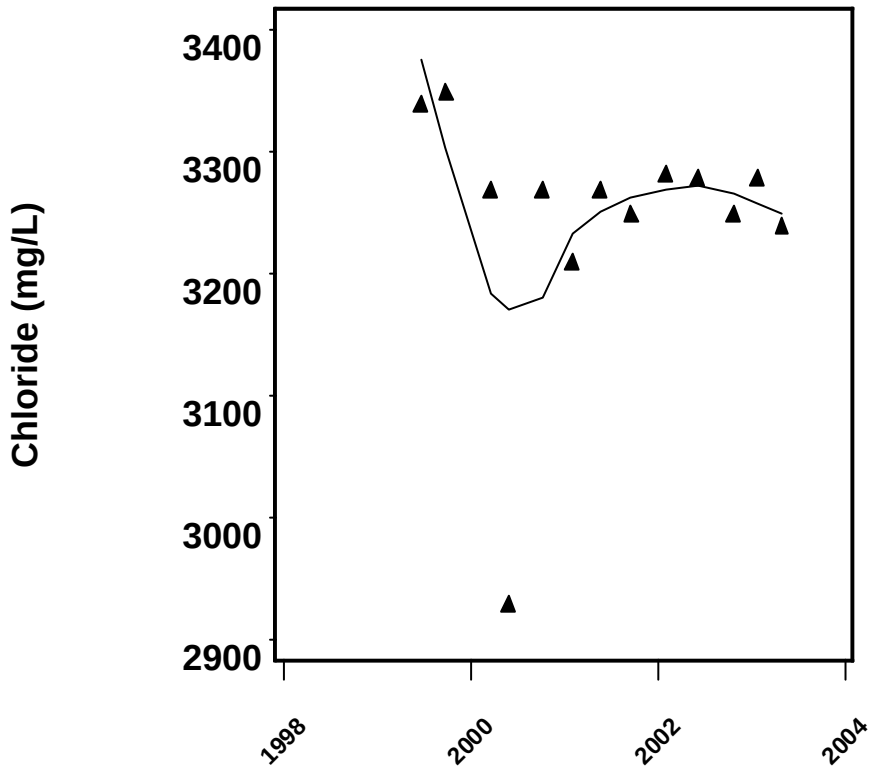


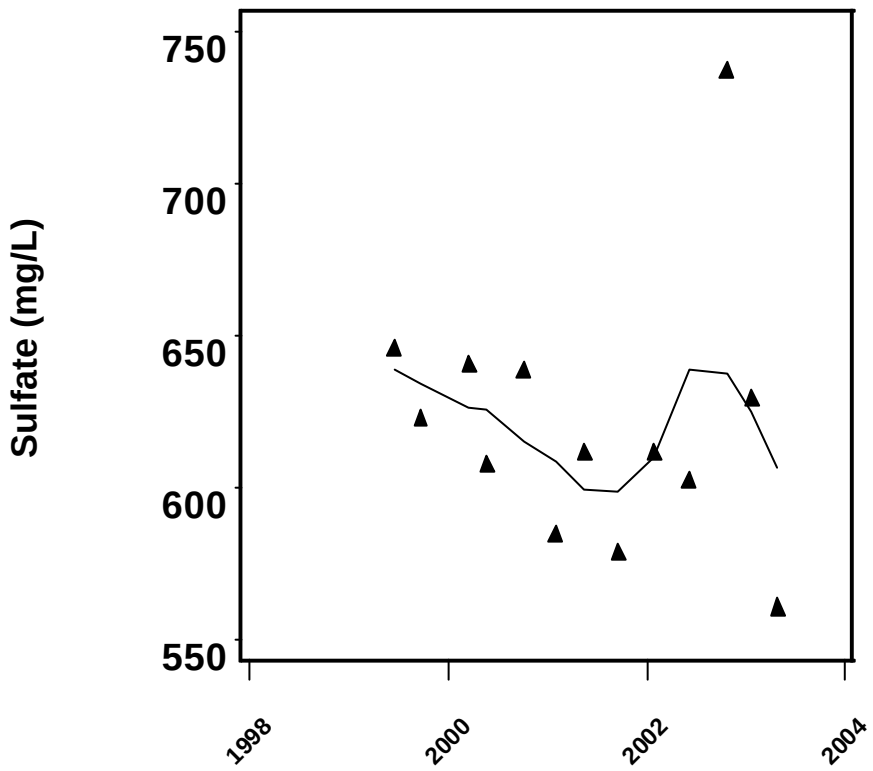
Appendix B-97. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-1 SUWANNEE.



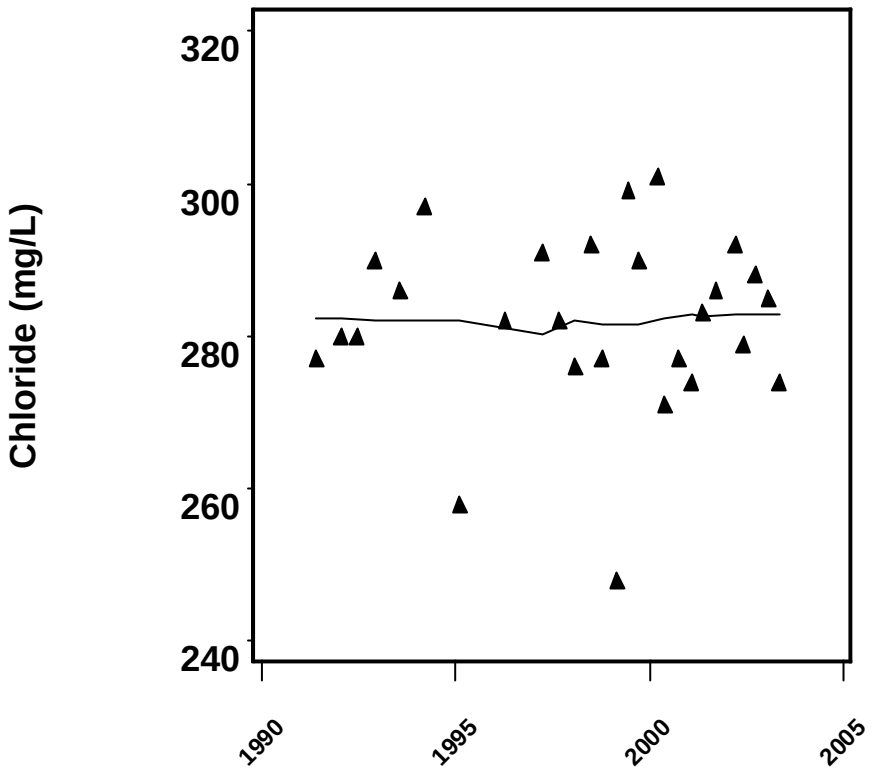


Appendix B-98. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 3-3 SUWANNEE.

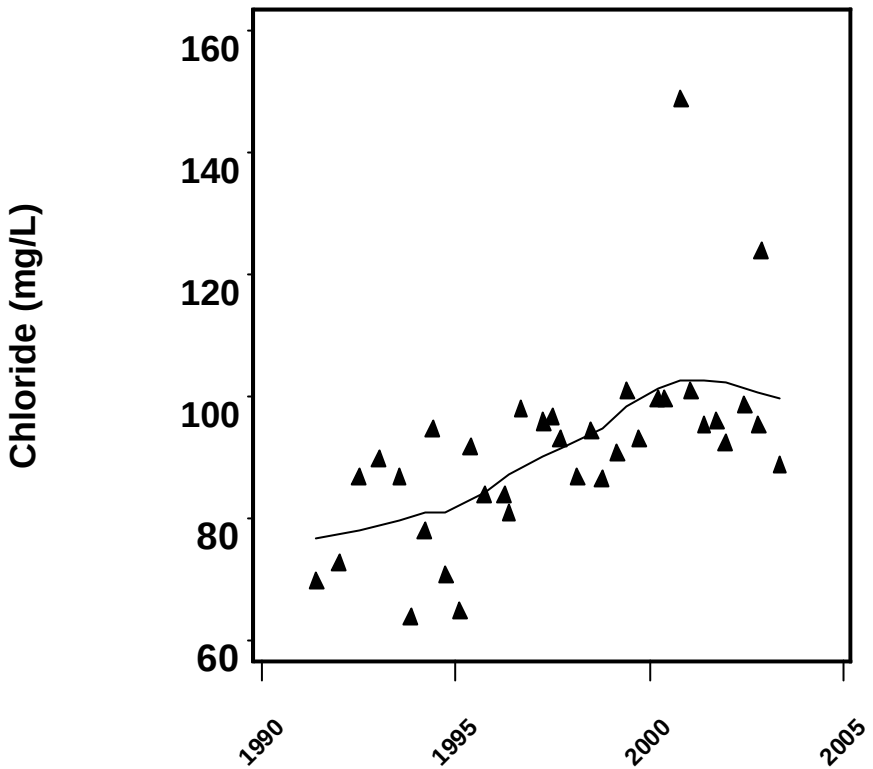


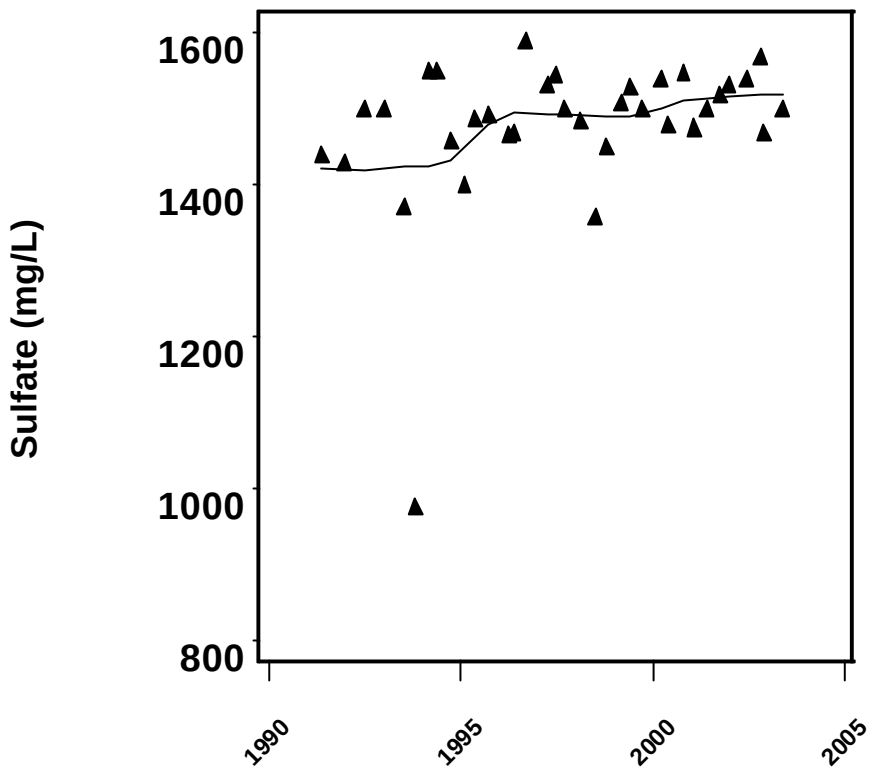


Appendix B-99. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 4-1 SUWANNEE.

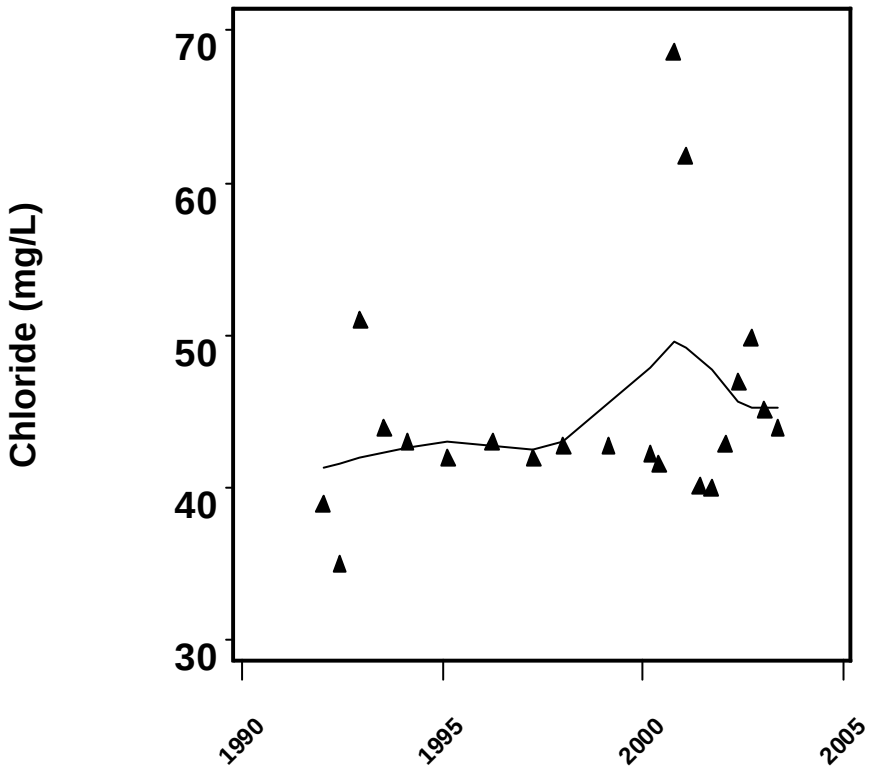


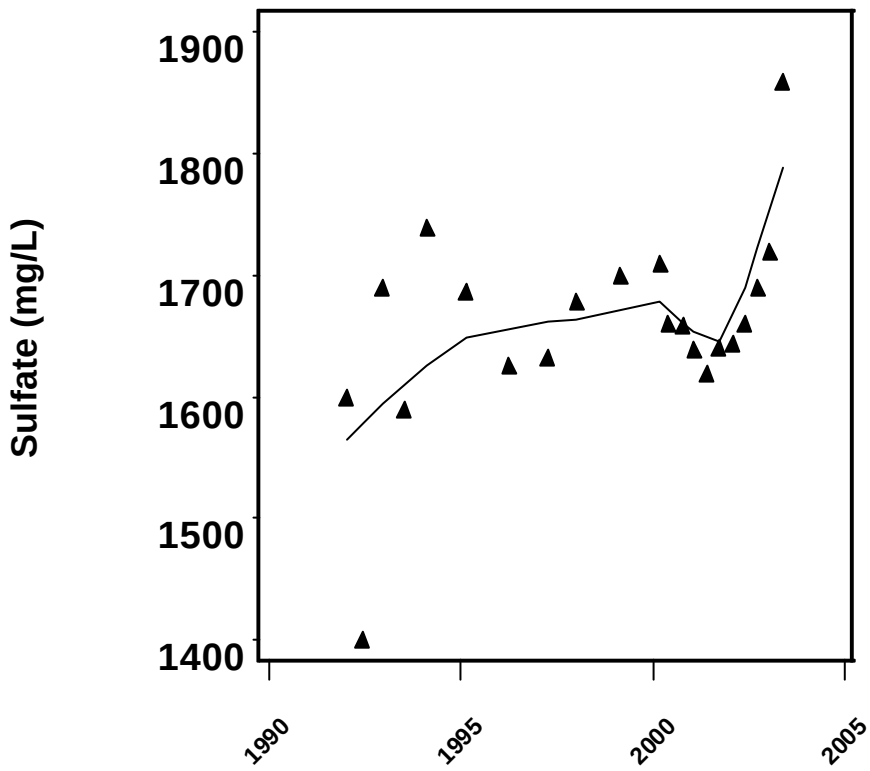
Appendix B-100. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 4-2 SUWANNEE.



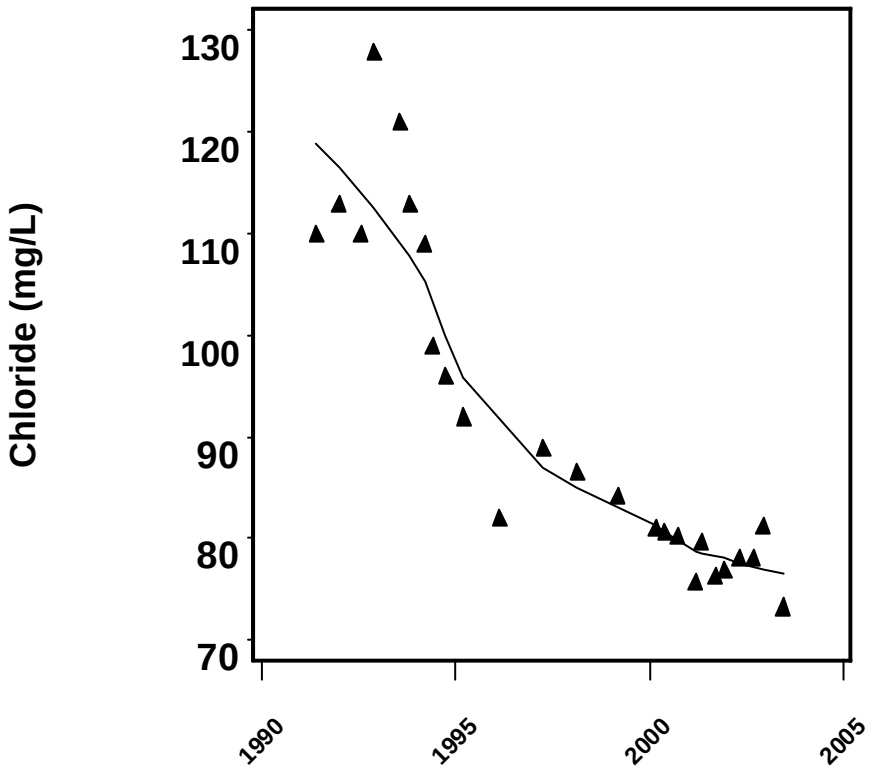


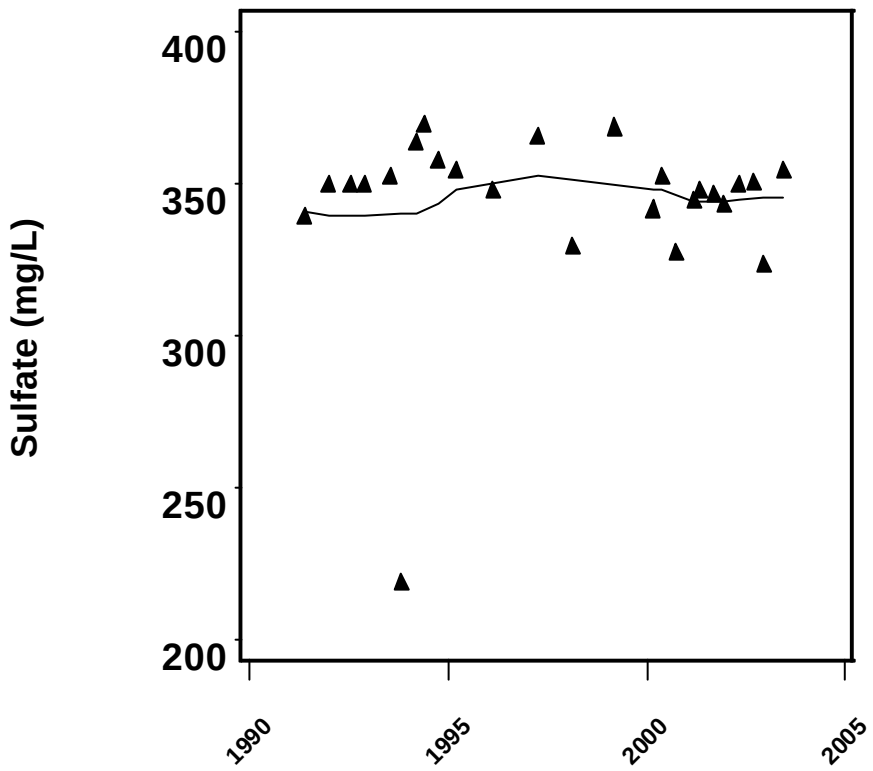
Appendix B-101. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 5-1 SUWANNEE.



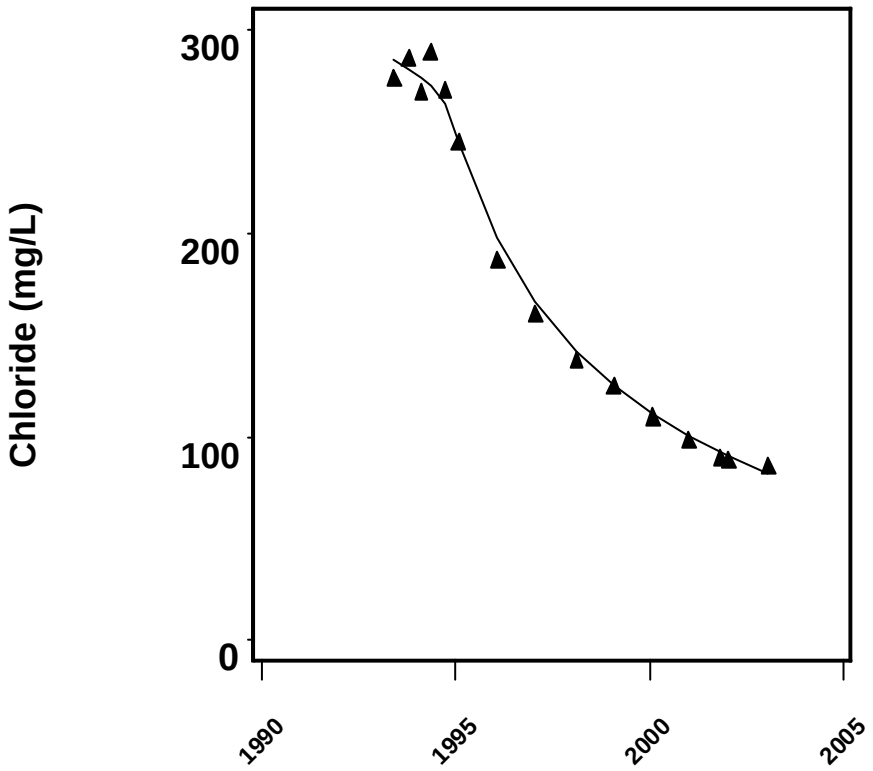


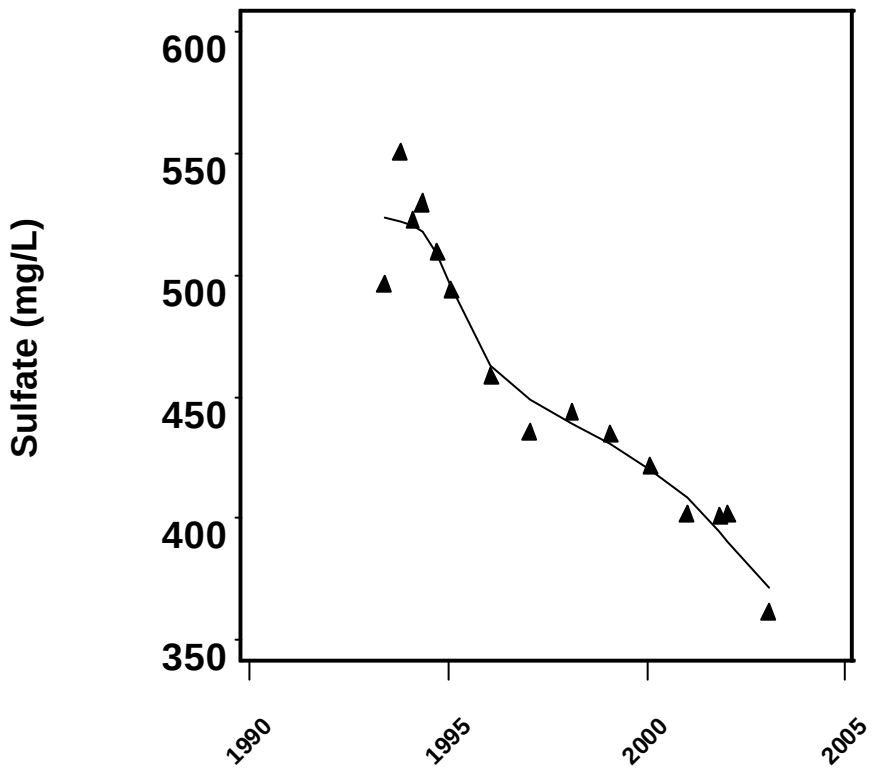
Appendix B-102. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 5-2 SUWANNEE.



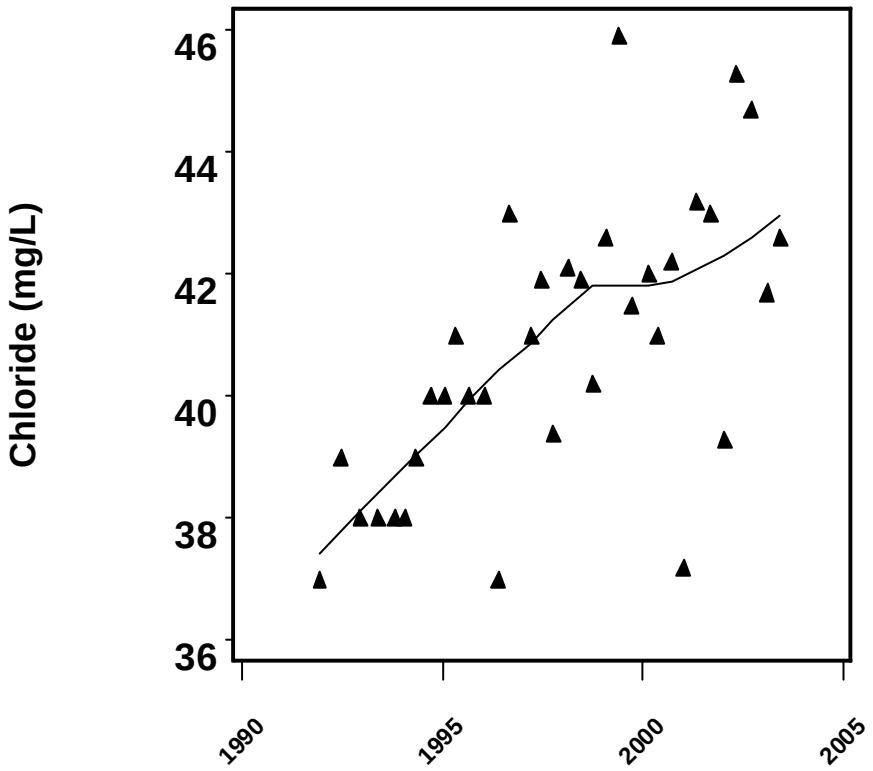


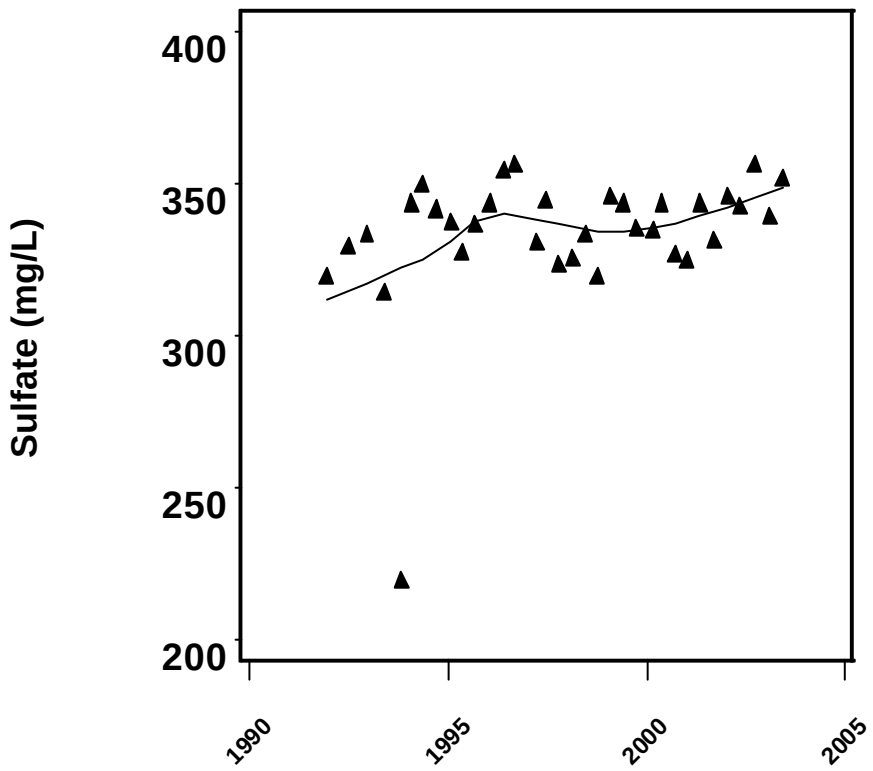
Appendix B-103. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-1.



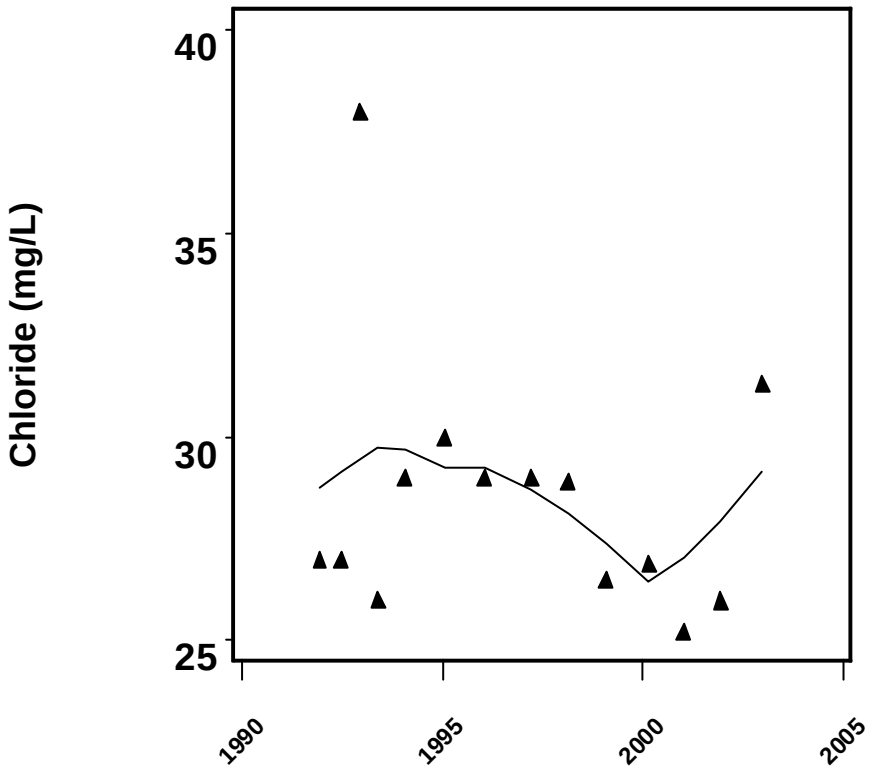


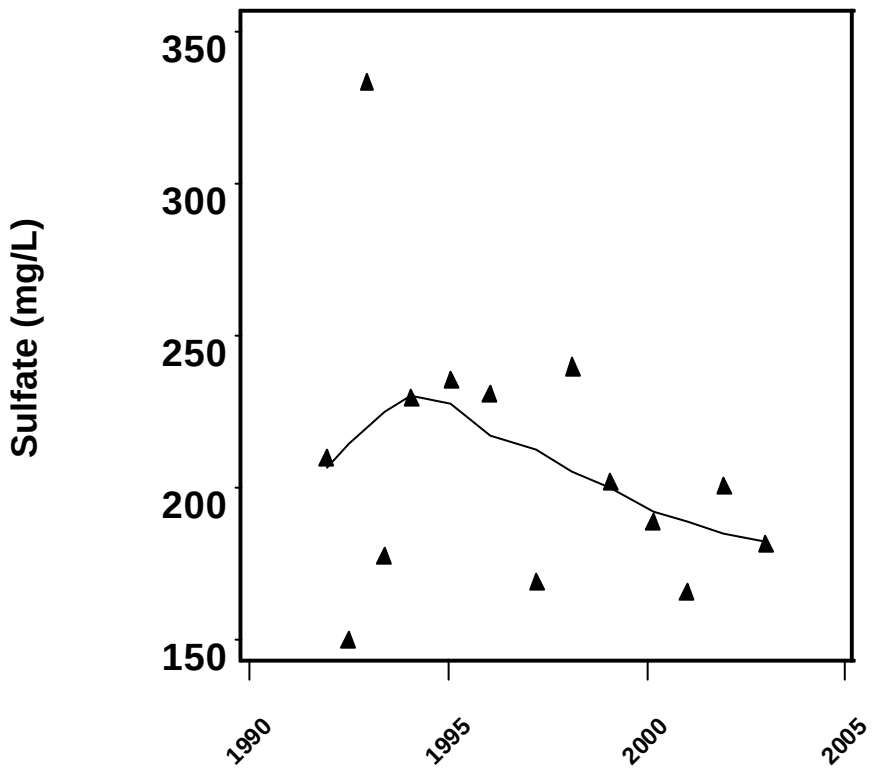
Appendix B-104. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-2 SH FL.



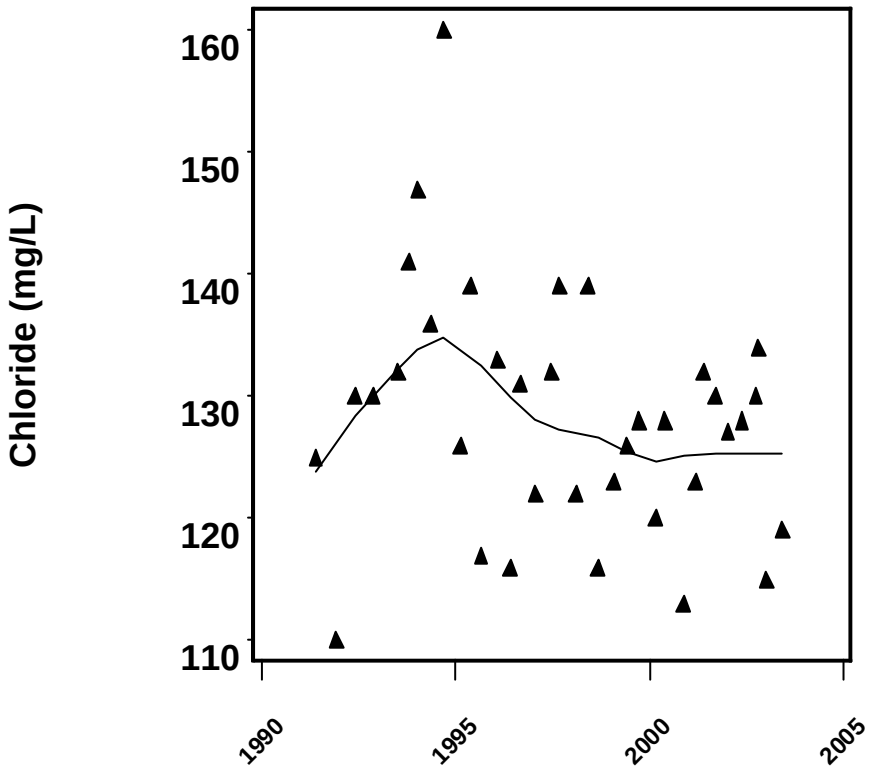


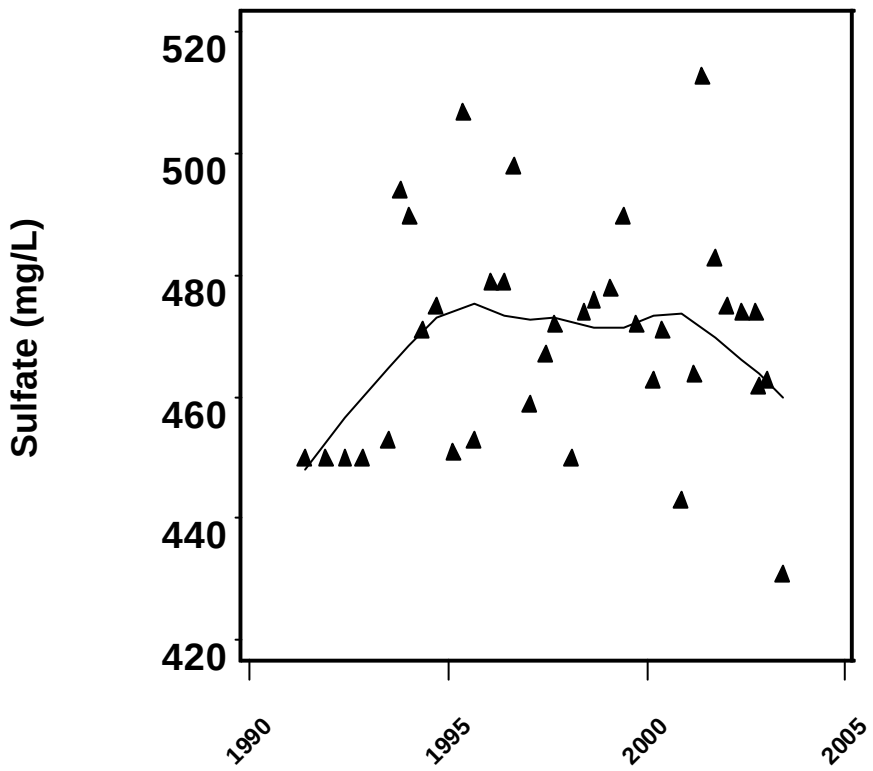
Appendix B-105. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-4 SWNN.



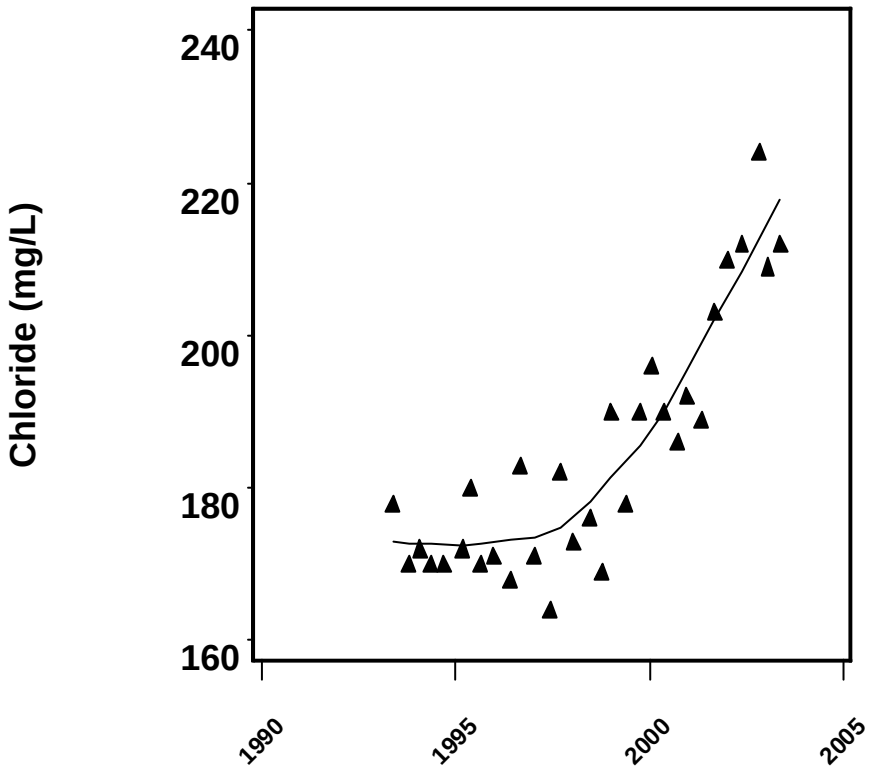


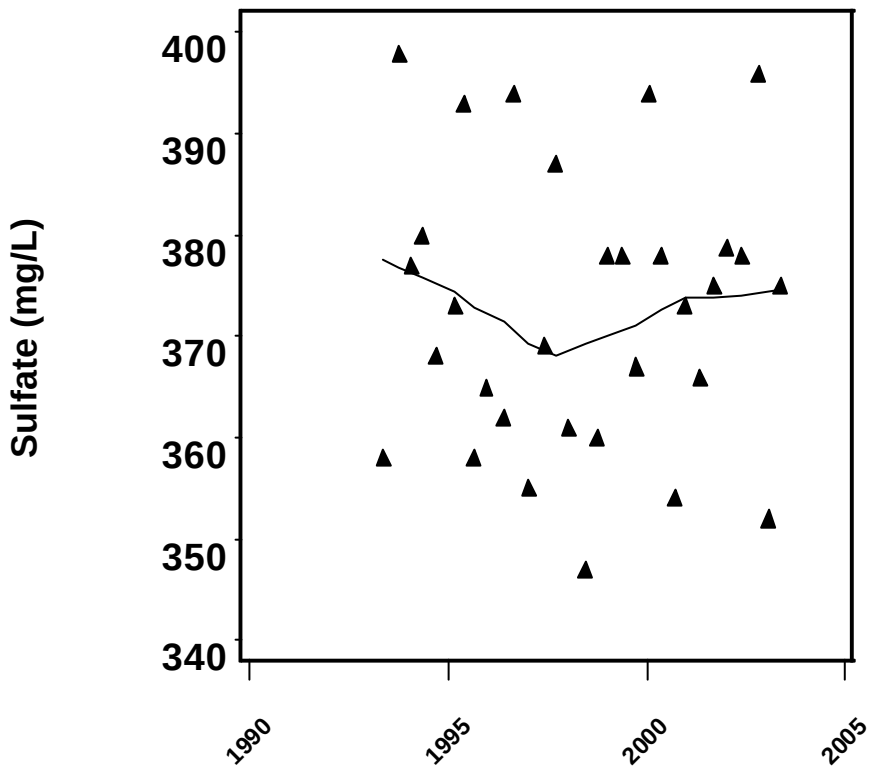
Appendix B-106. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-4 TAMPA.



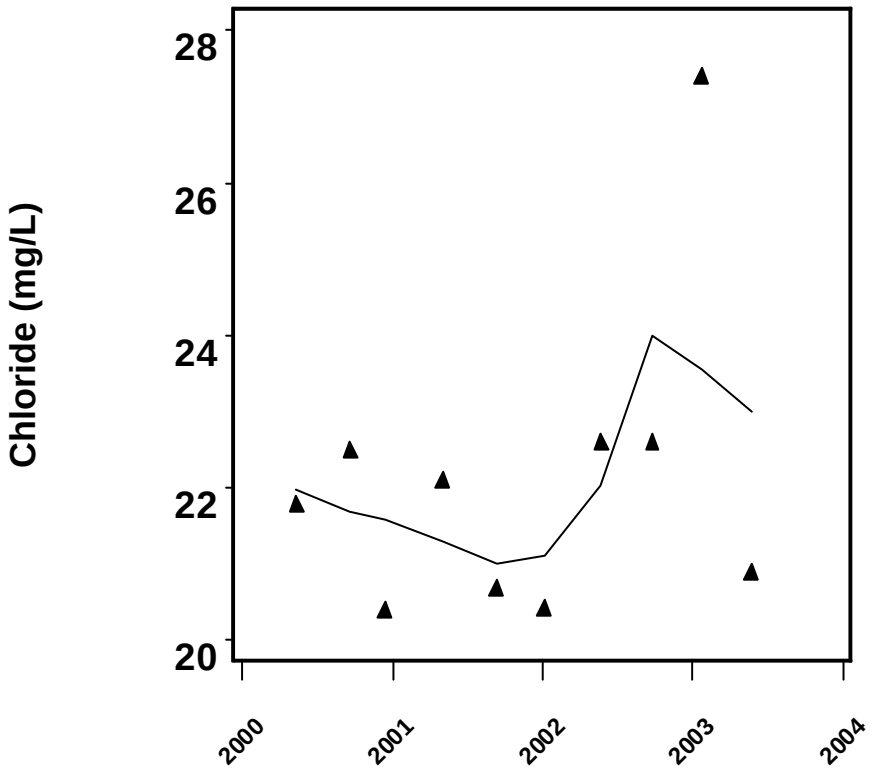


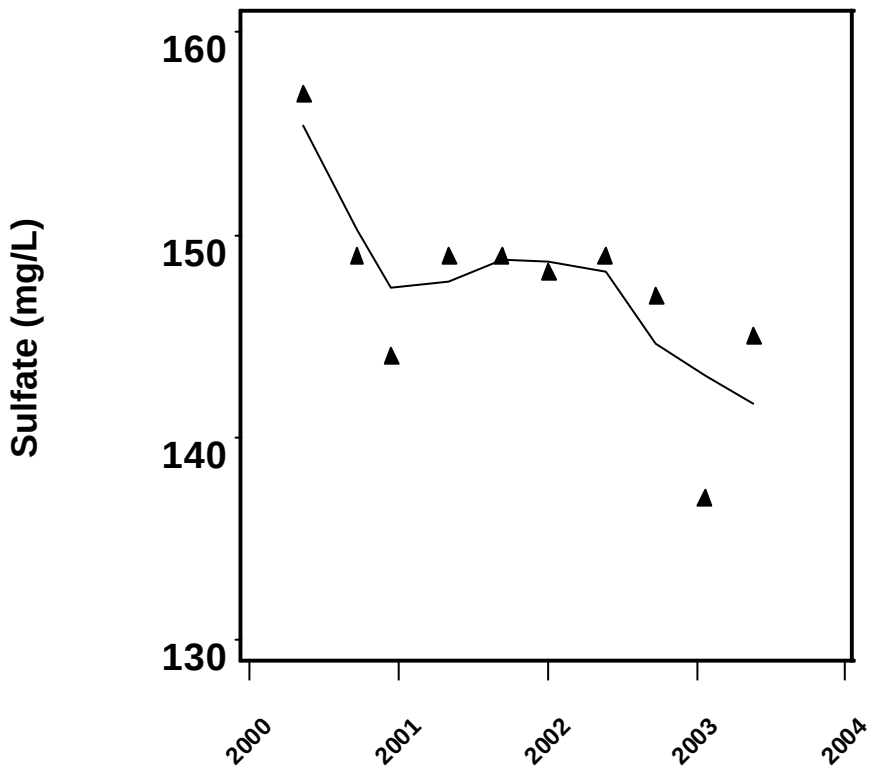
Appendix B-107. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 8-1 SWNN.



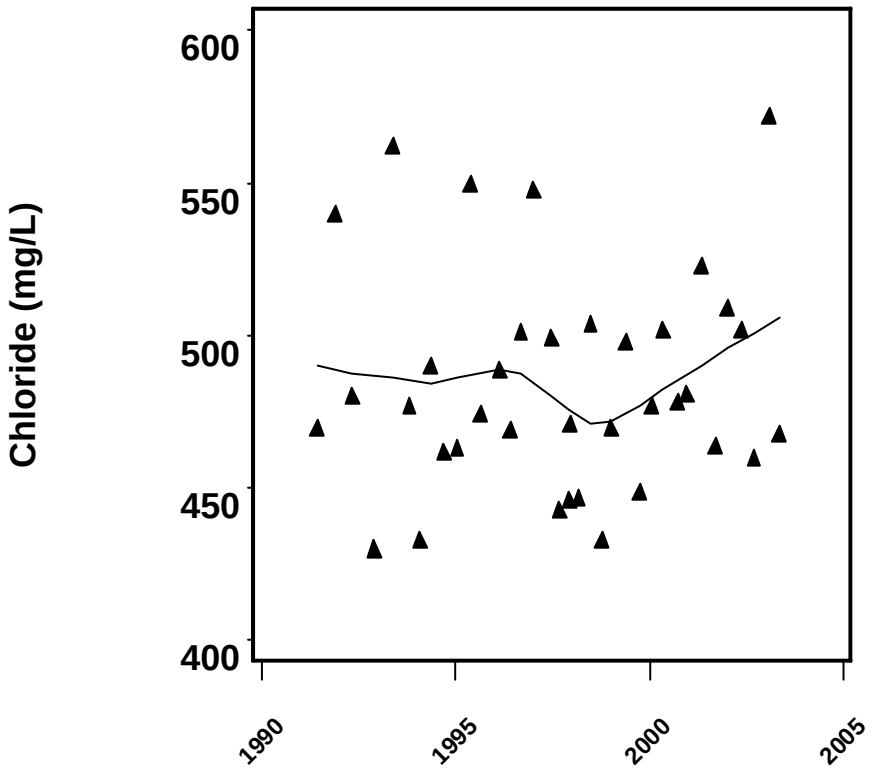


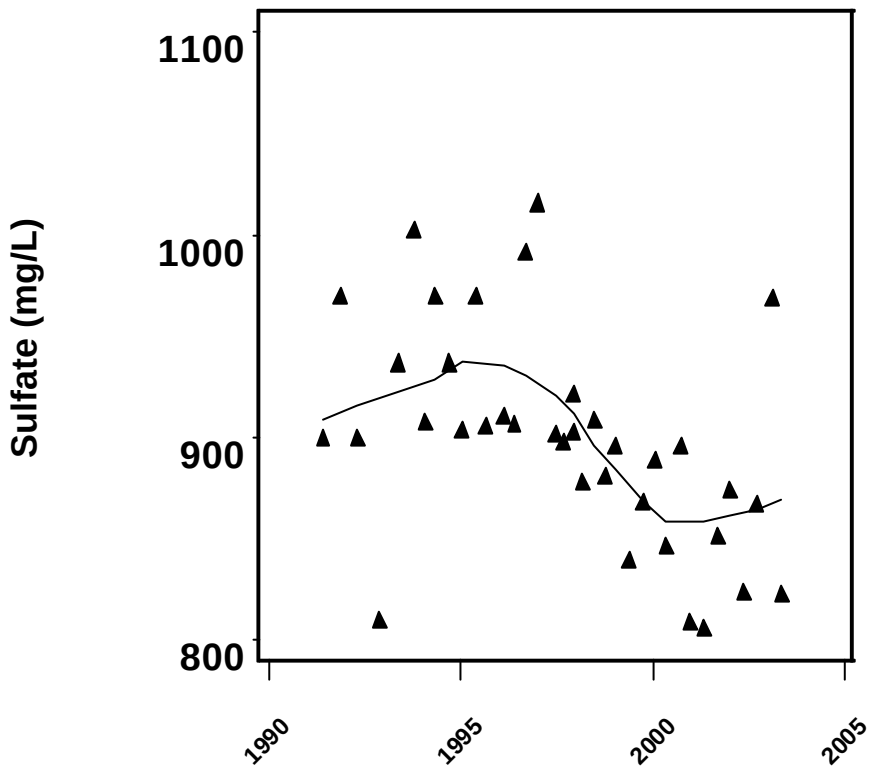
Appendix B-108. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-2 SWNN.



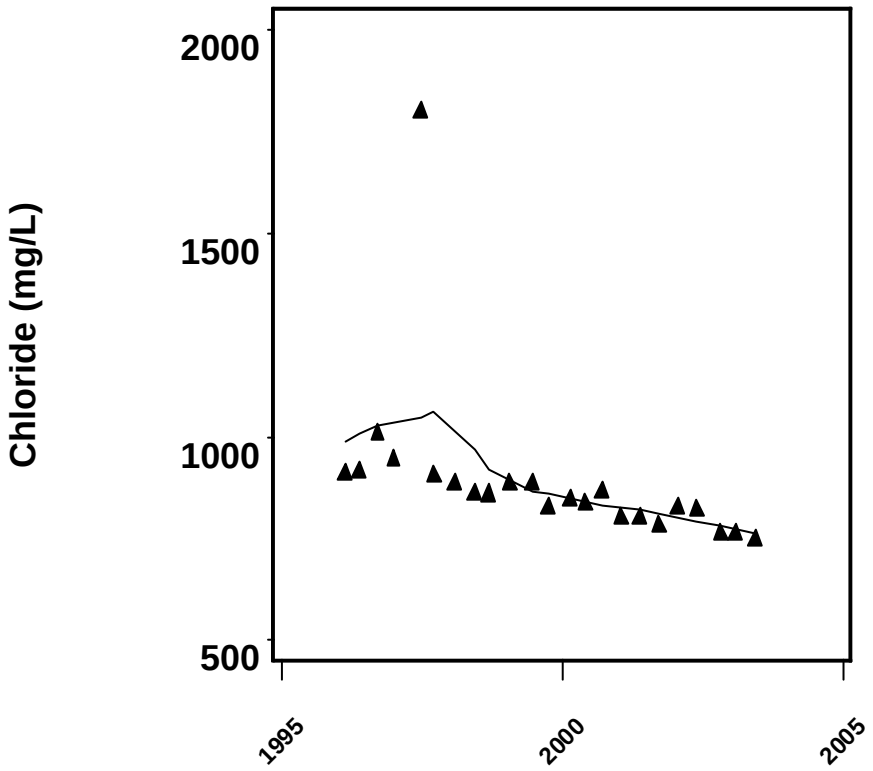


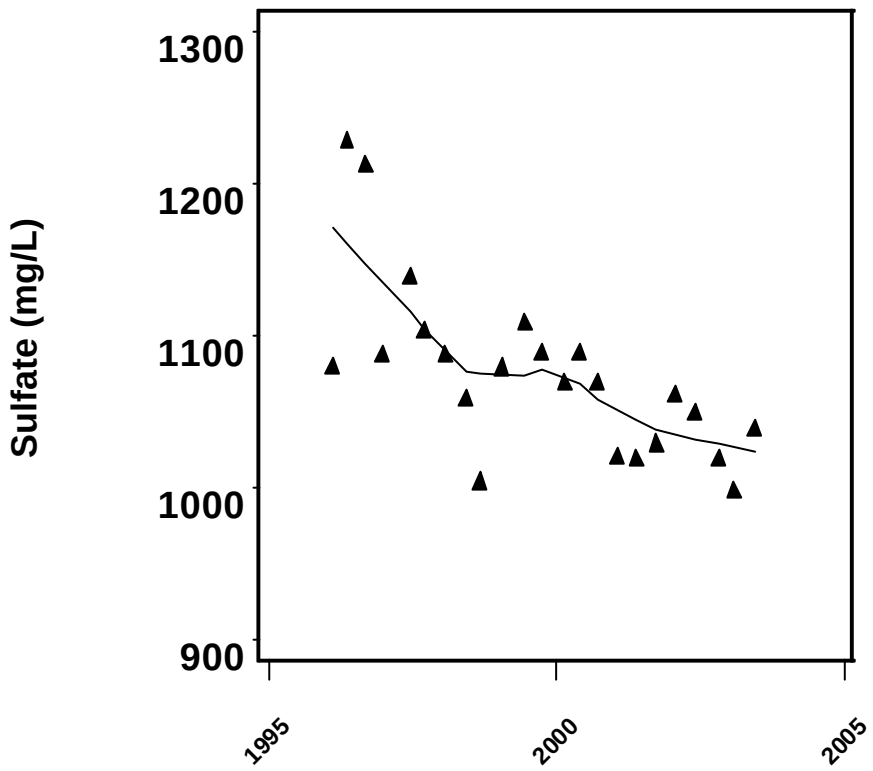
Appendix B-109. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-2 TAMPA.



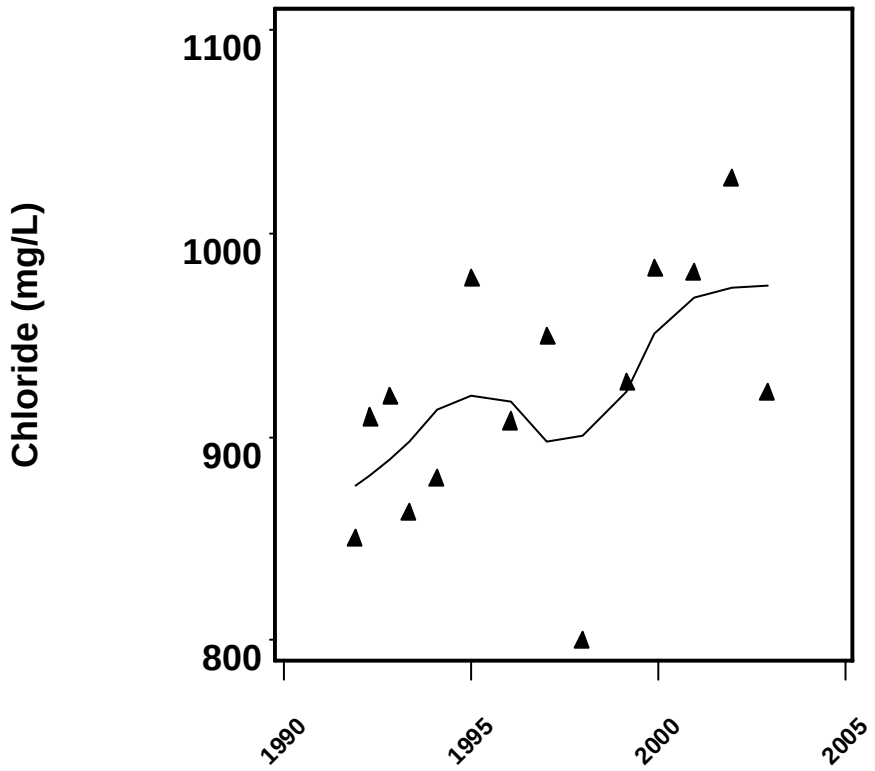


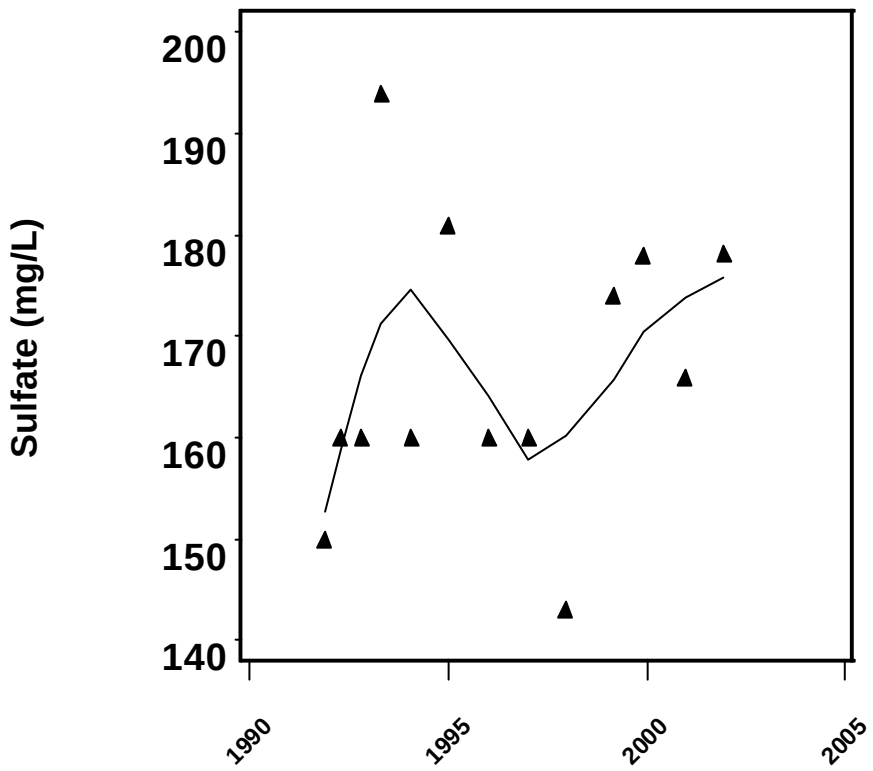
Appendix B-110. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-3 SWNN.



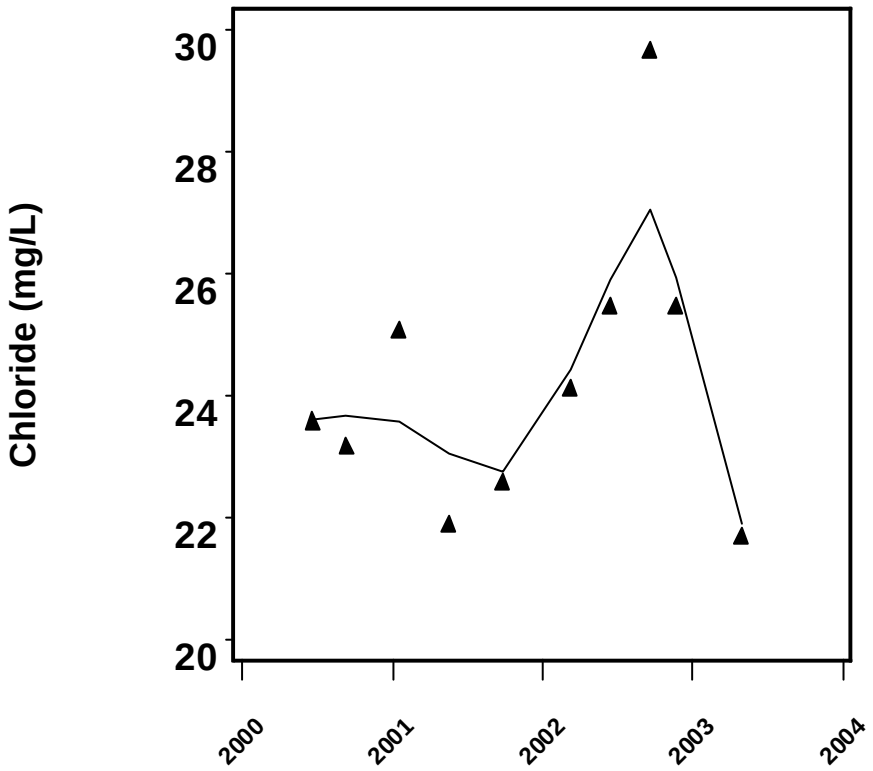


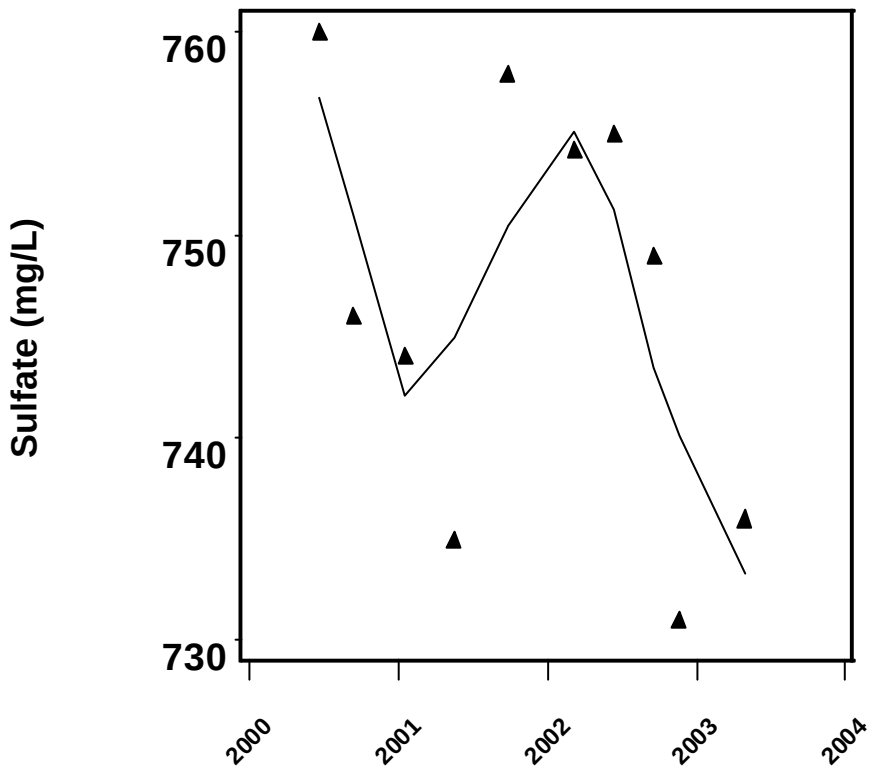
Appendix B-111. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR SA-1 SUWANNEE.



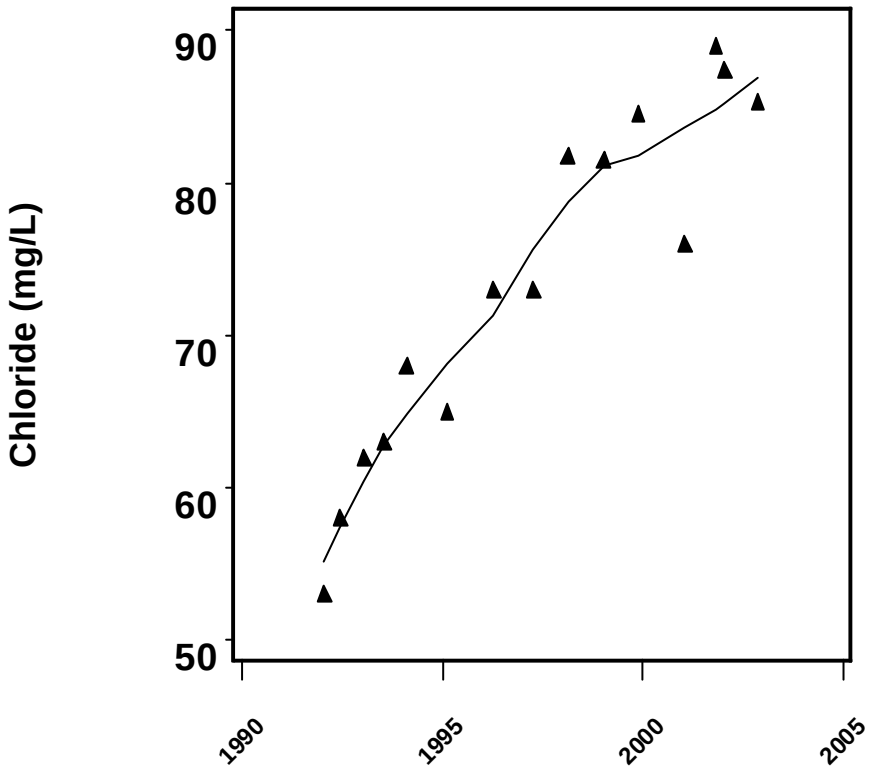


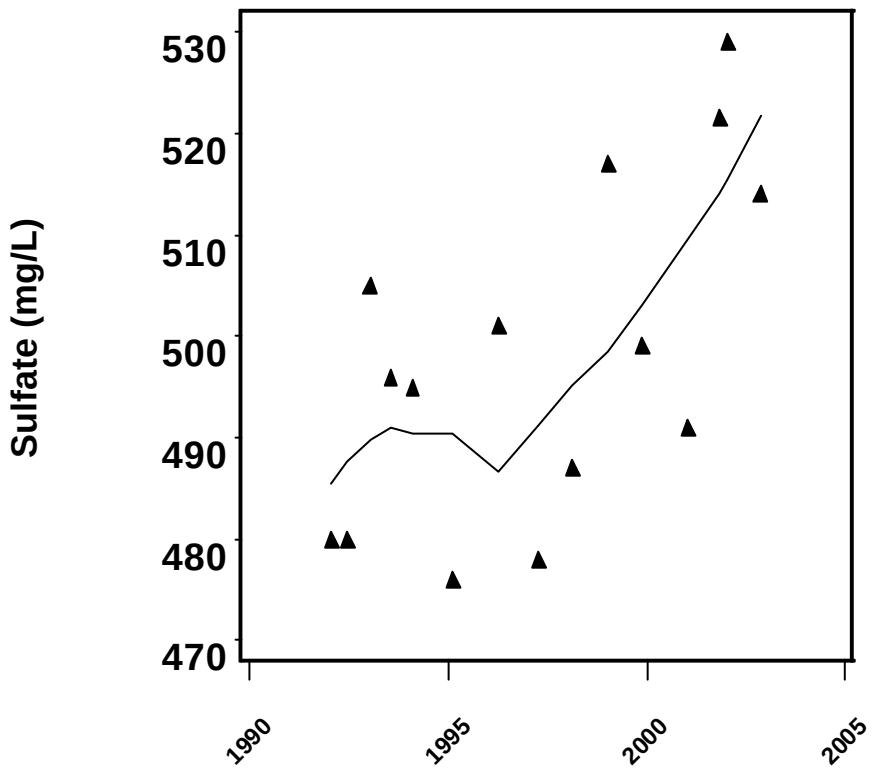
Appendix B-112. Water Quality Scatterplots Fitted with a LOWESS Curve for SALT BAYOU FL – JOHNSON.



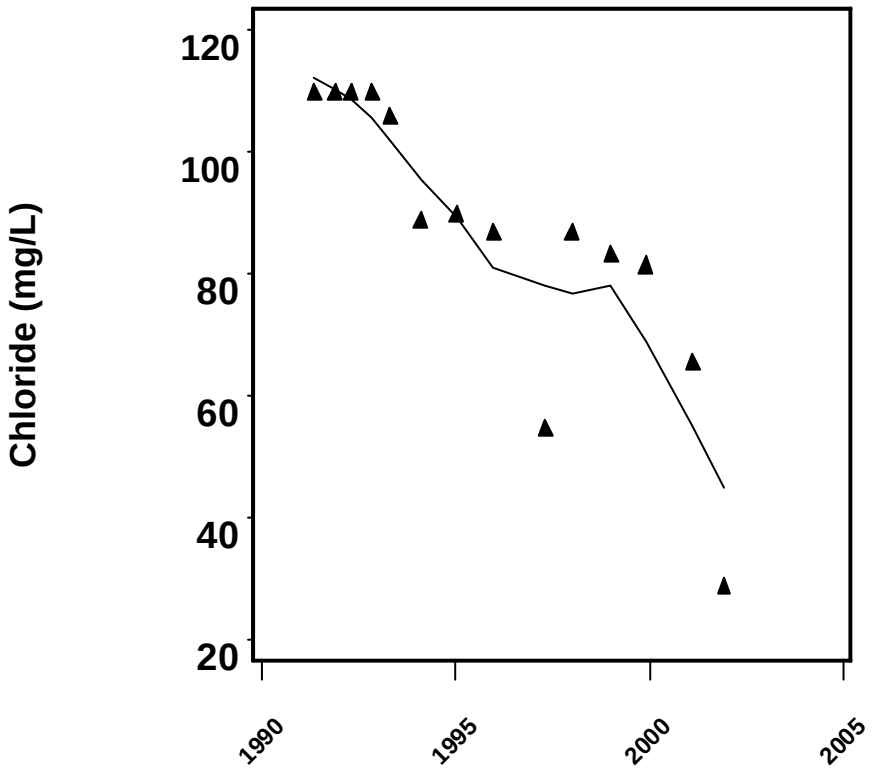


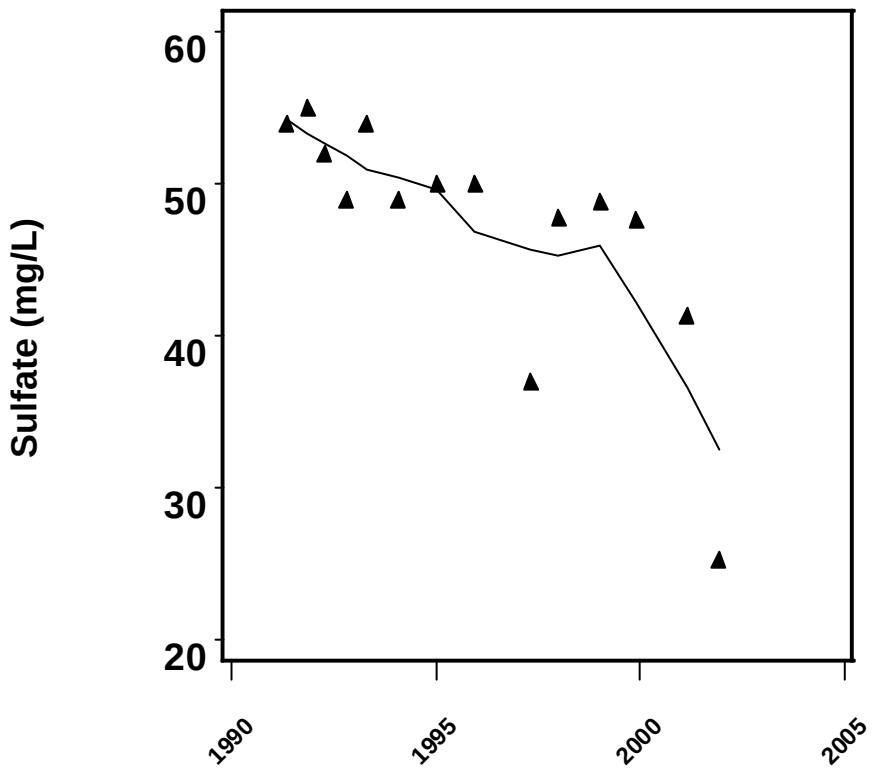
Appendix B-113. Water Quality Scatterplots Fitted with a LOWESS Curve for SARASOTA #9 DEEP.



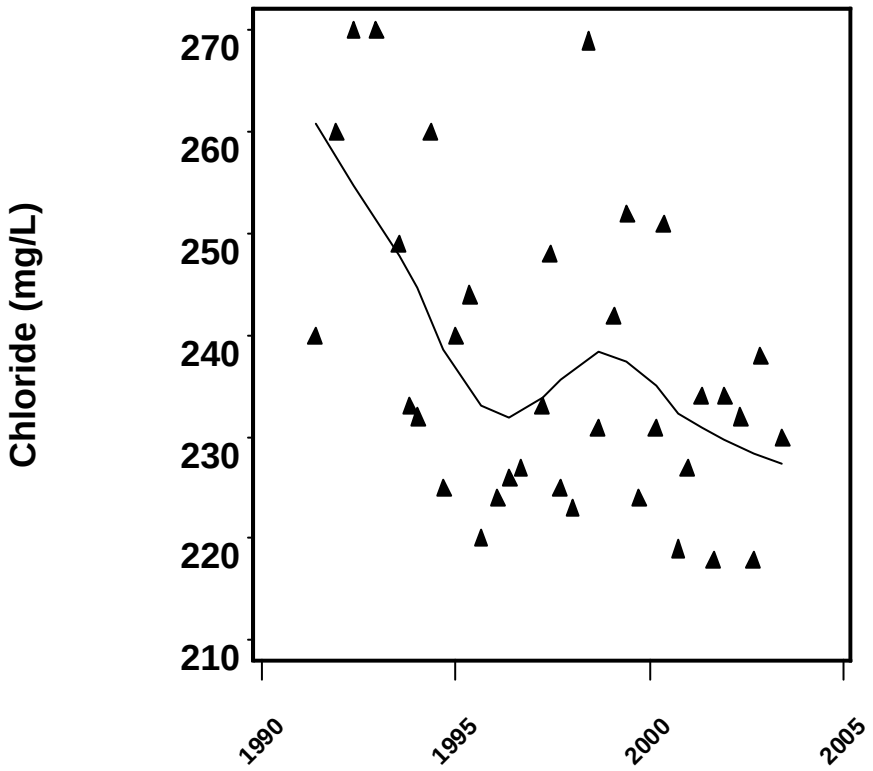


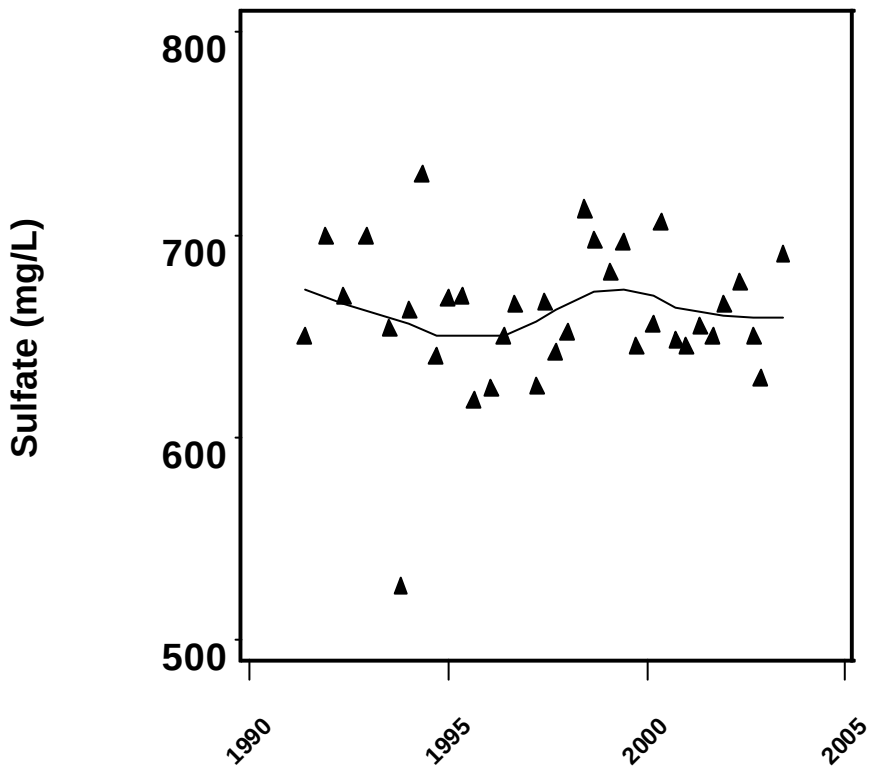
Appendix B-114. Water Quality Scatterplots Fitted with a LOWESS Curve for SARASOTA CO. TEST WELL #1.



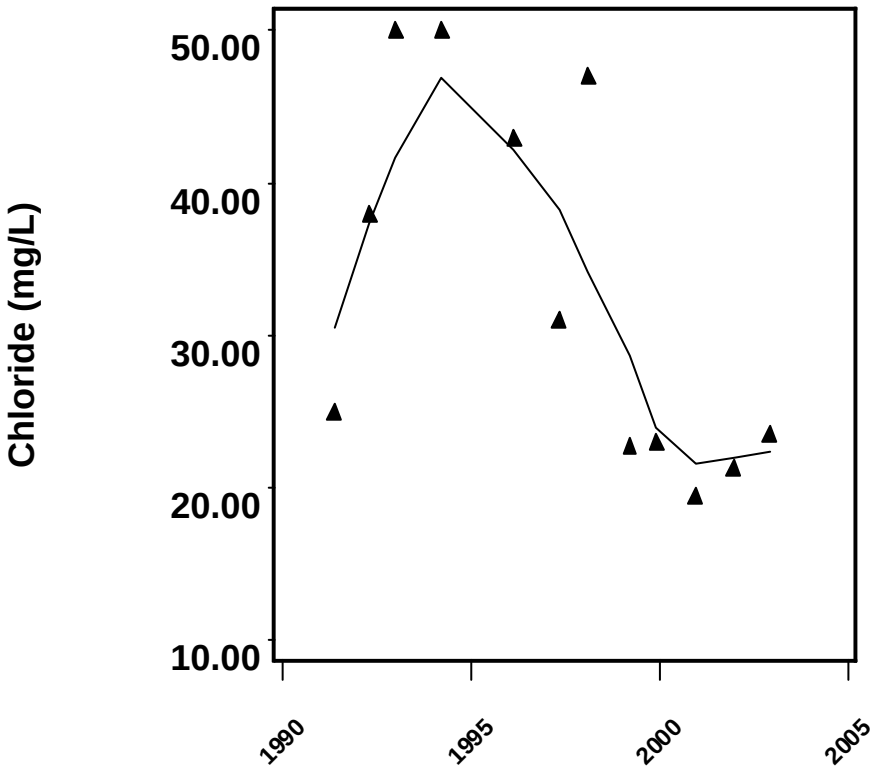


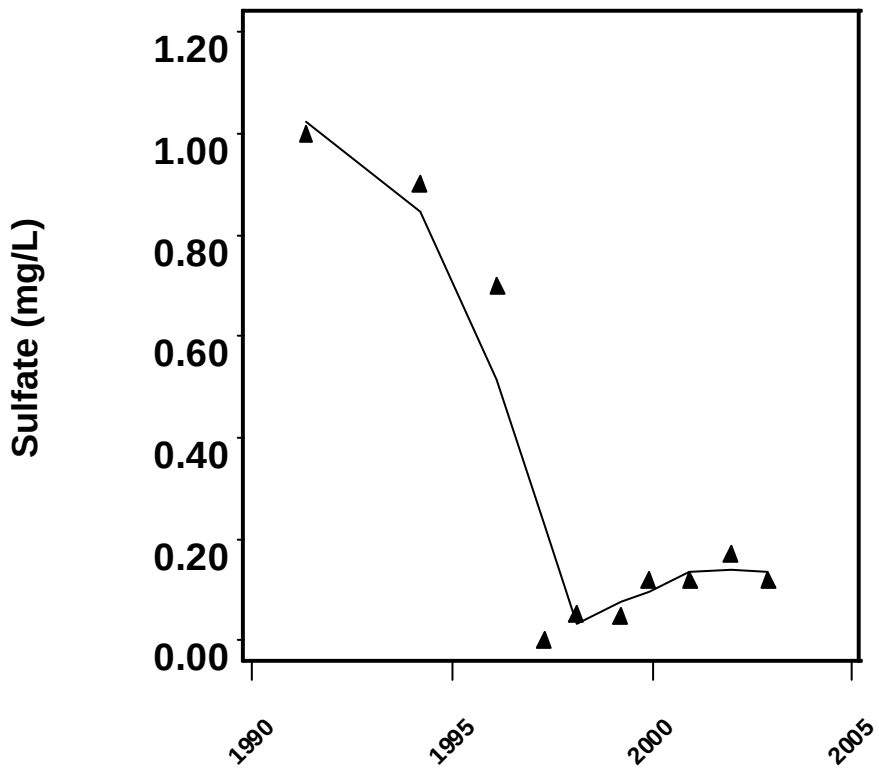
Appendix B-115. Water Quality Scatterplots Fitted with a LOWESS Curve for SEABOARD UTIL #8.



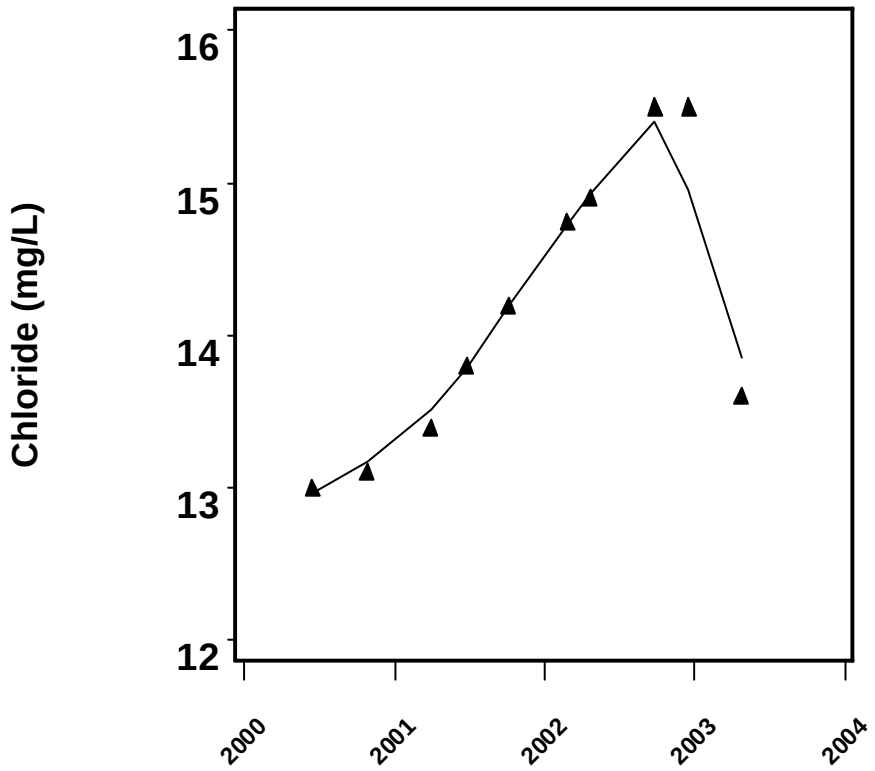


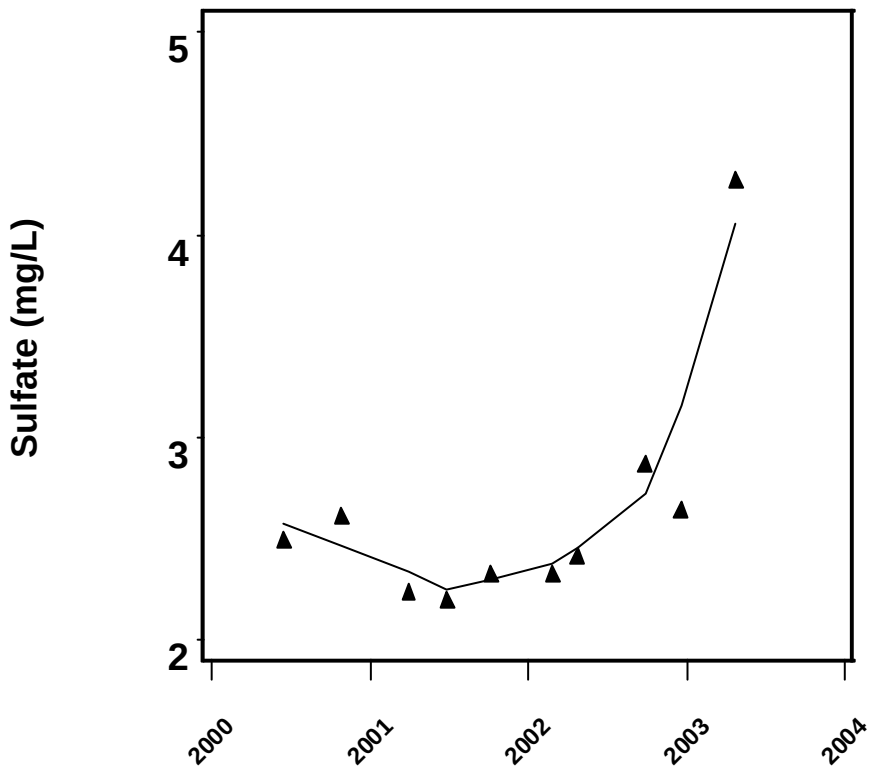
Appendix B-116. Water Quality Scatterplots Fitted with a LOWESS Curve for SNEAD'S ISLAND.



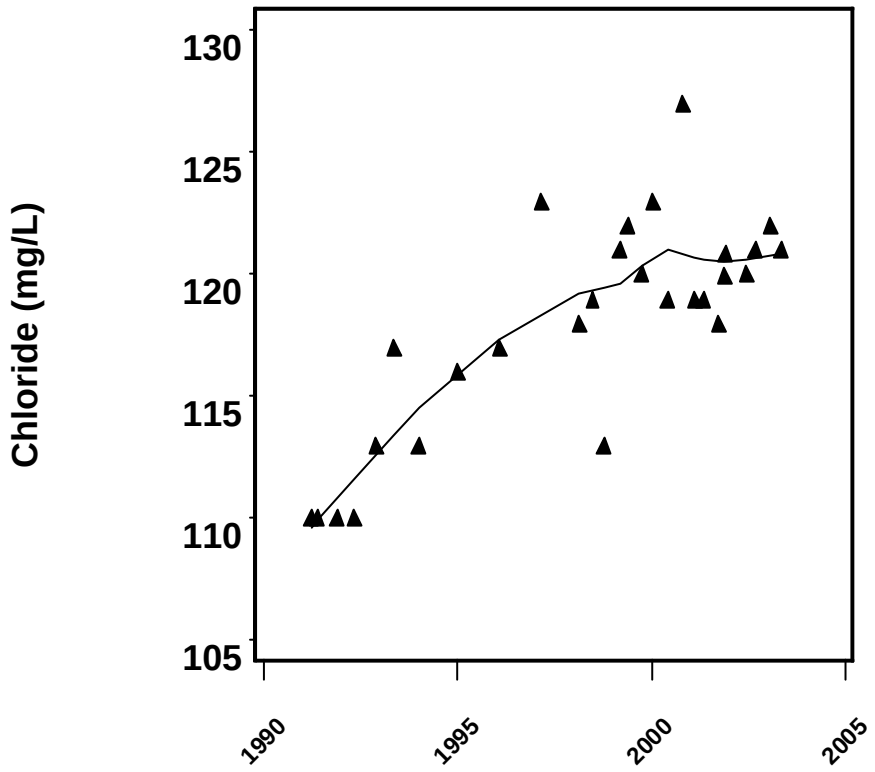


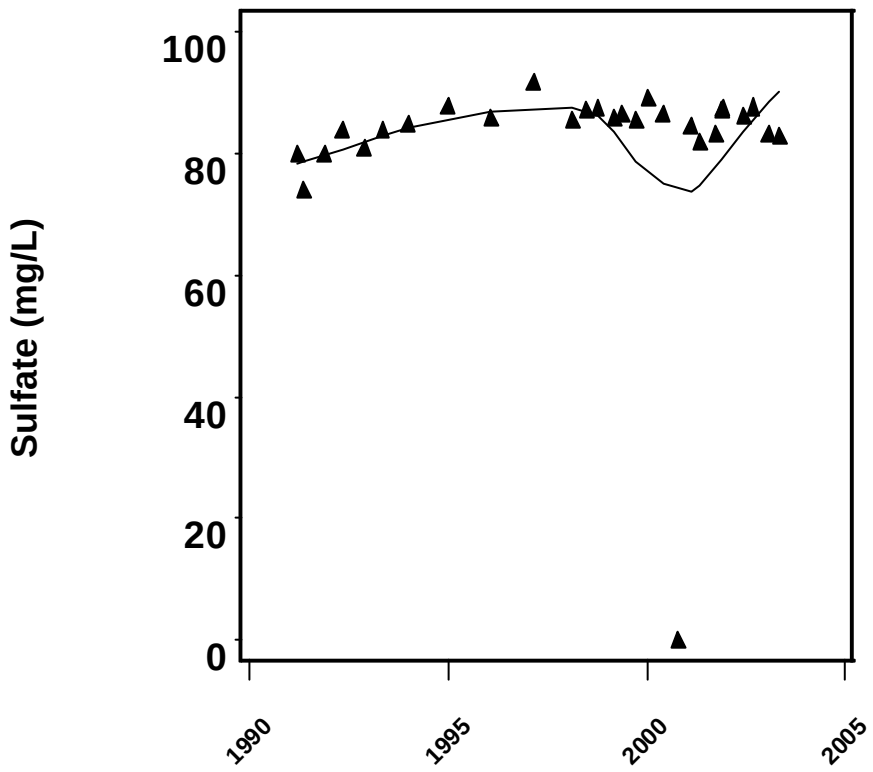
Appendix B-117. Water Quality Scatterplots Fitted with a LOWESS Curve for SOUTH CROSS BAYOU W S9.



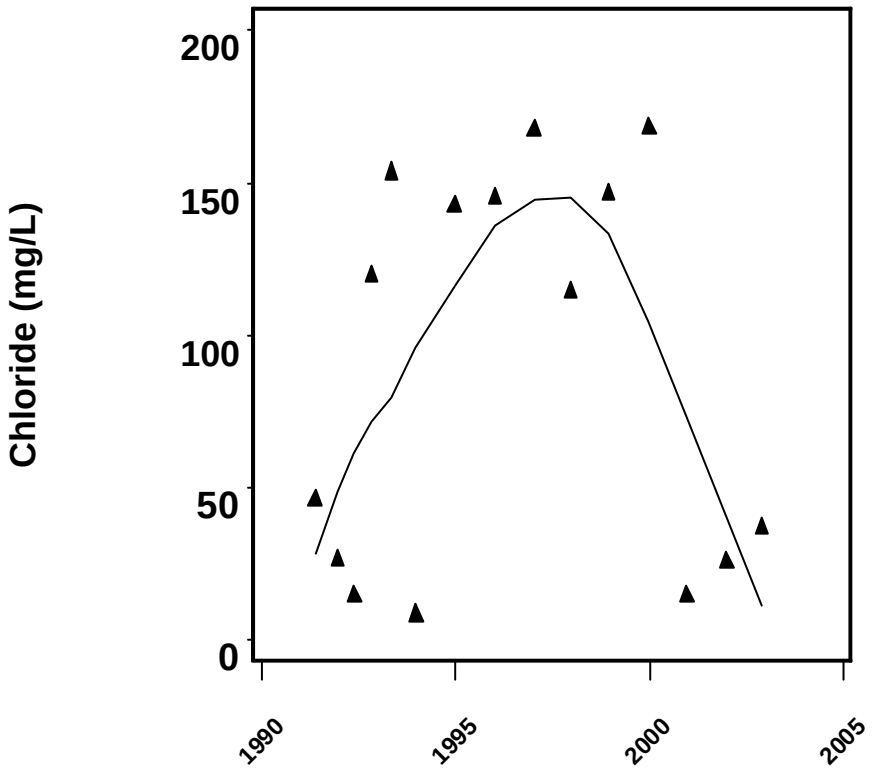


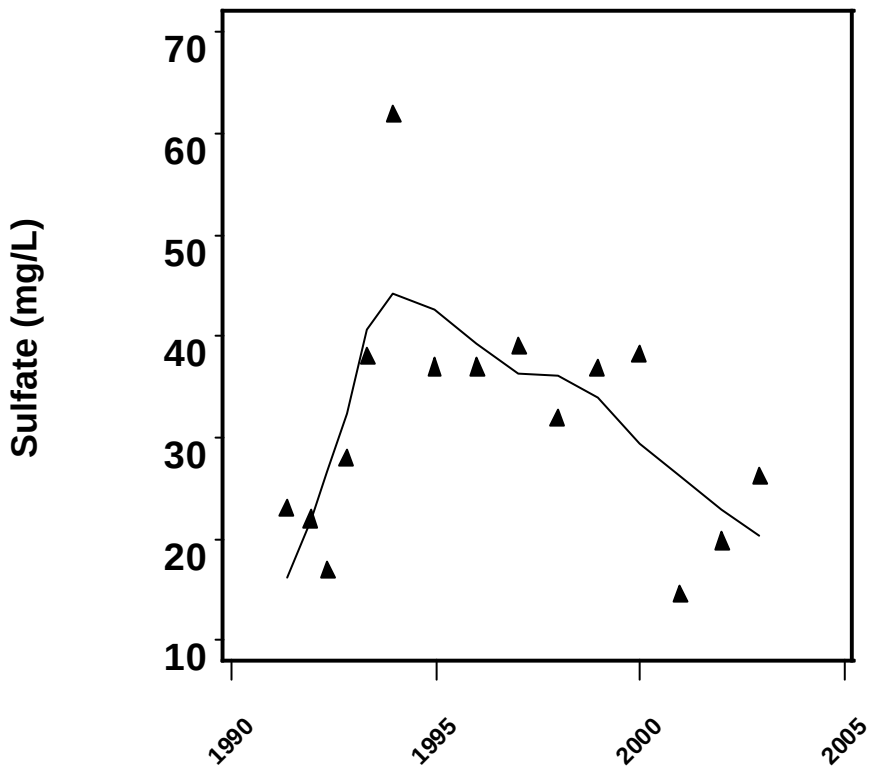
Appendix B-118. Water Quality Scatterplots Fitted with a LOWESS Curve for SWANN RD FL.



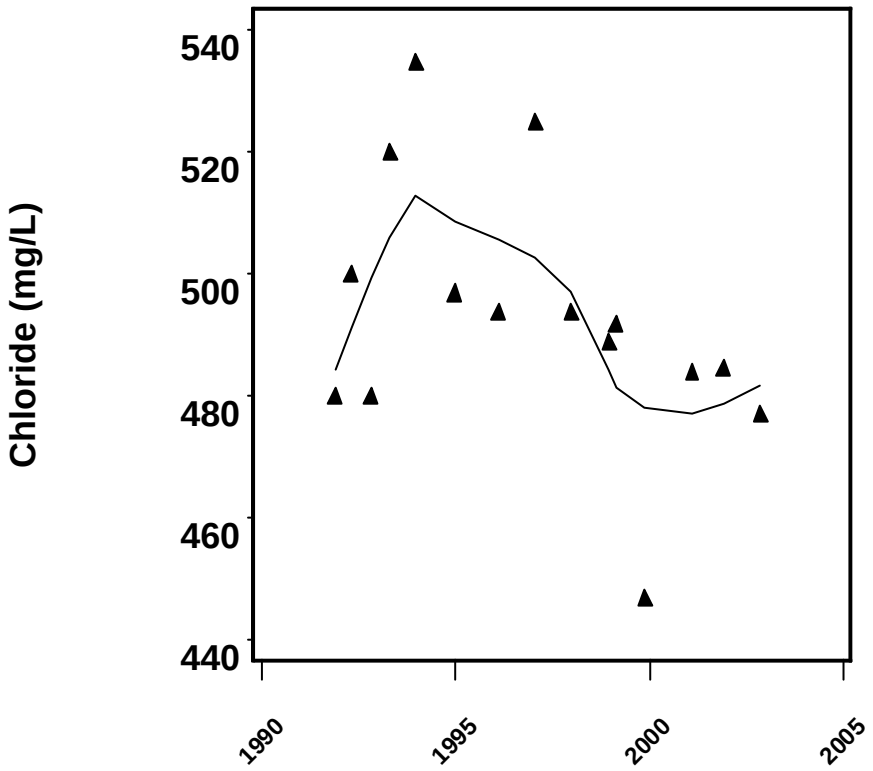


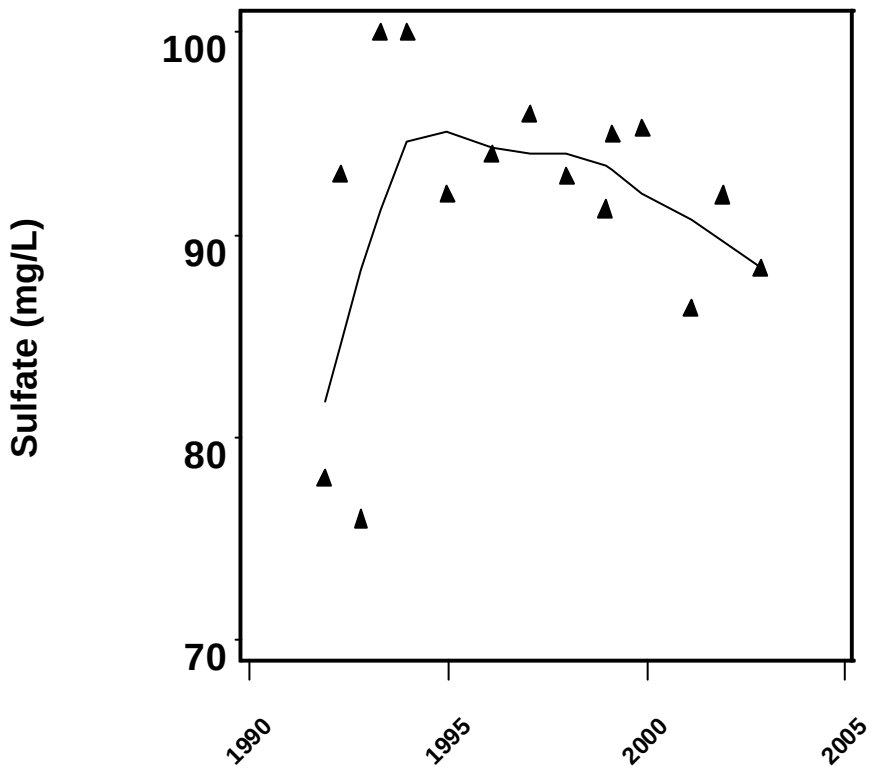
Appendix B-119. Water Quality Scatterplots Fitted with a LOWESS Curve for SWFWMD WELL AT S-160.



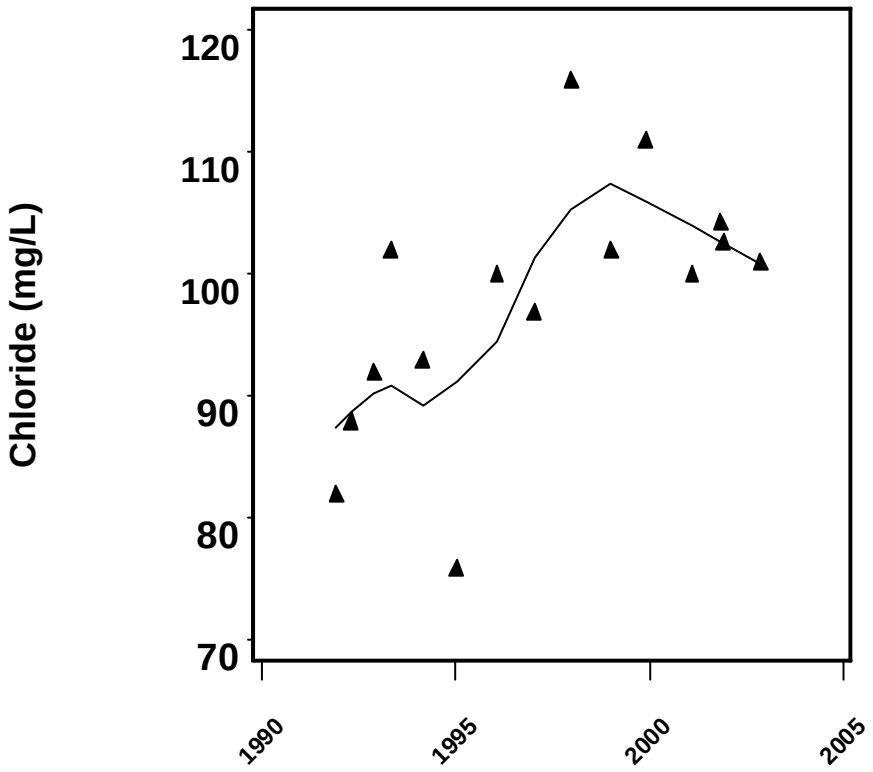


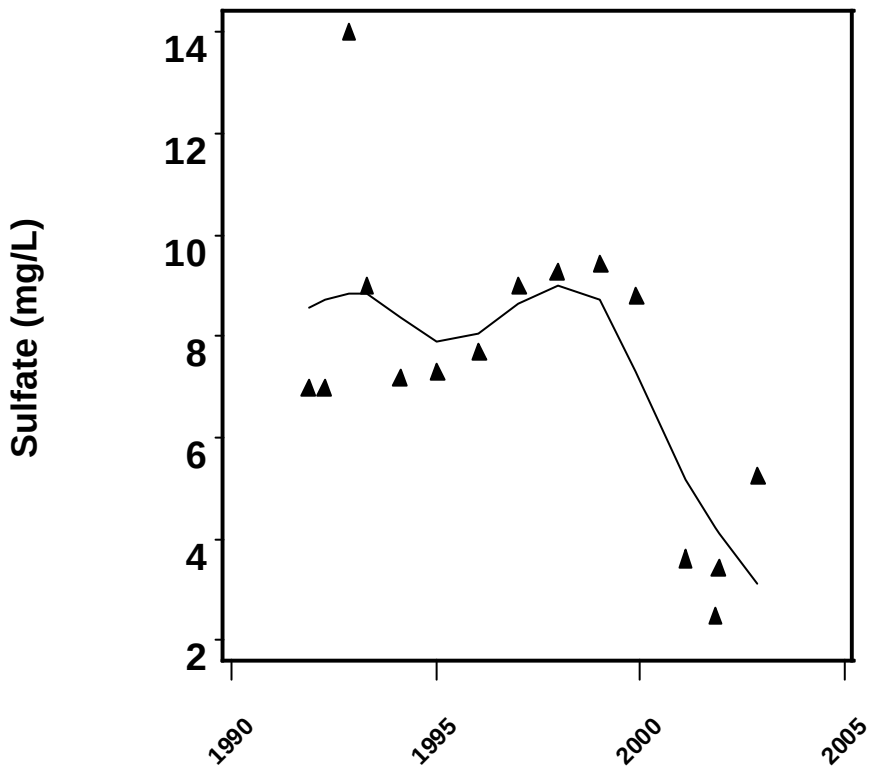
Appendix B-120. Water Quality Scatterplots Fitted with a LOWESS Curve for TAHITIAN DEEP WELL.



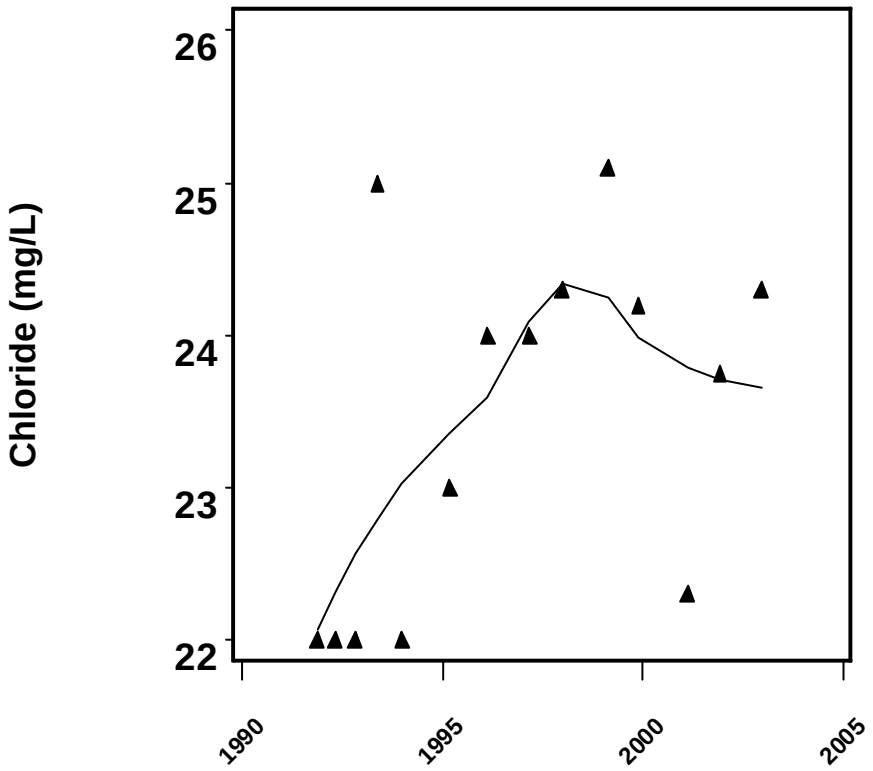


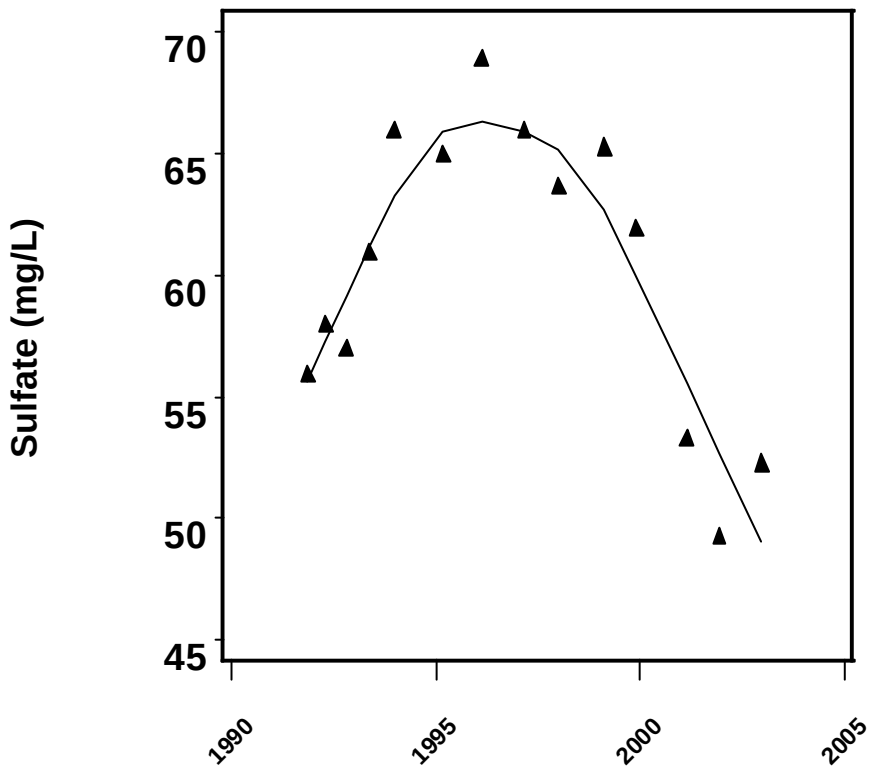
Appendix B-121. Water Quality Scatterplots Fitted with a LOWESS Curve for TAMPA BAY DOWNS WRAP-57F.



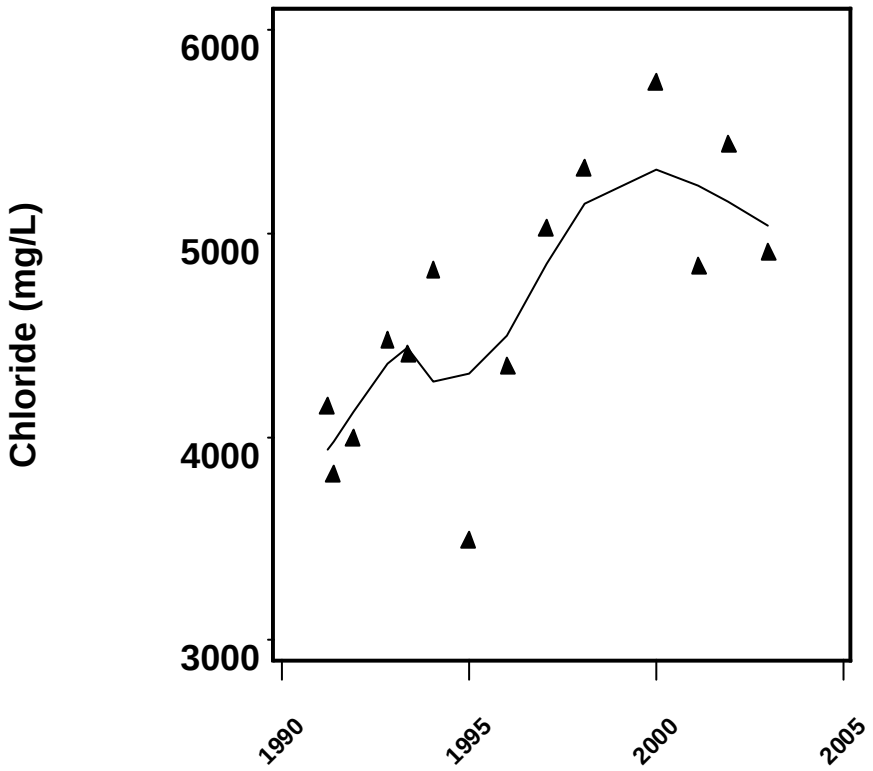


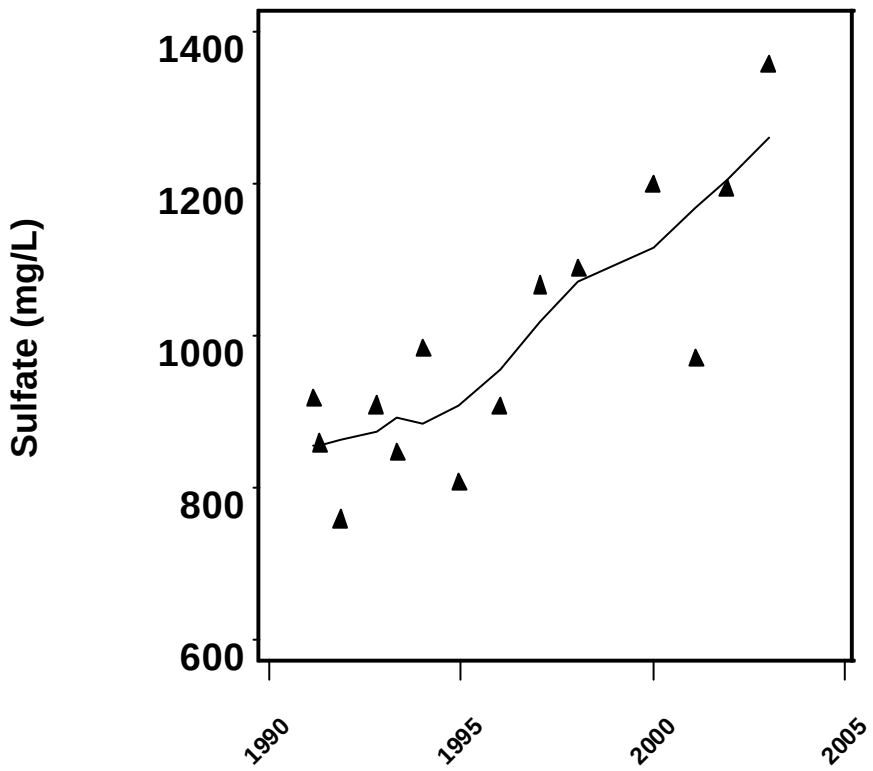
Appendix B-122. Water Quality Scatterplots Fitted with a LOWESS Curve for TAMPA YACHT AND STABLES.



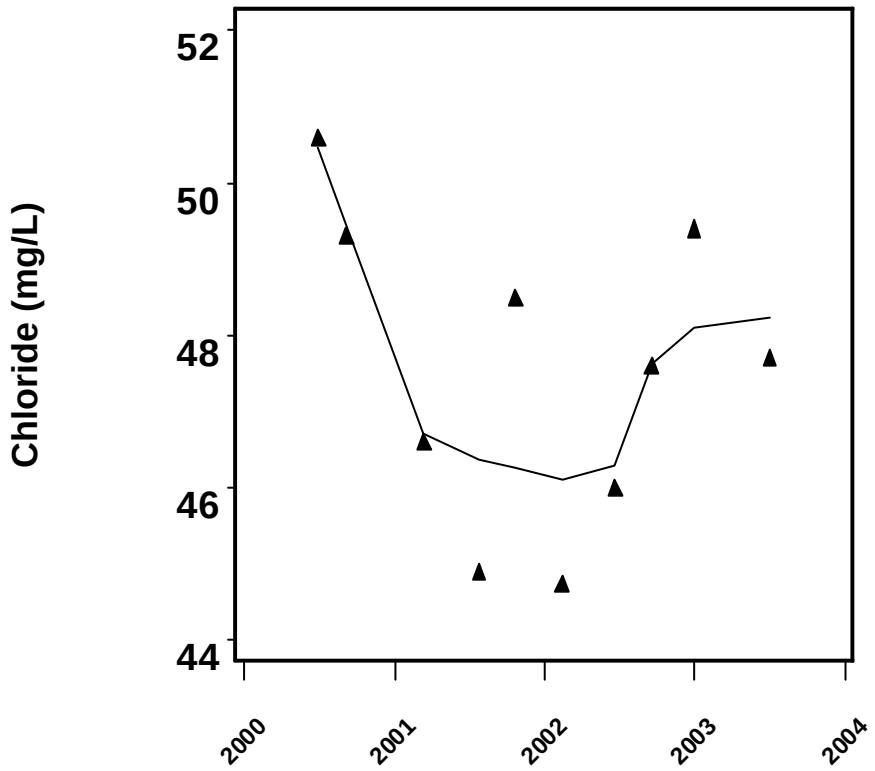


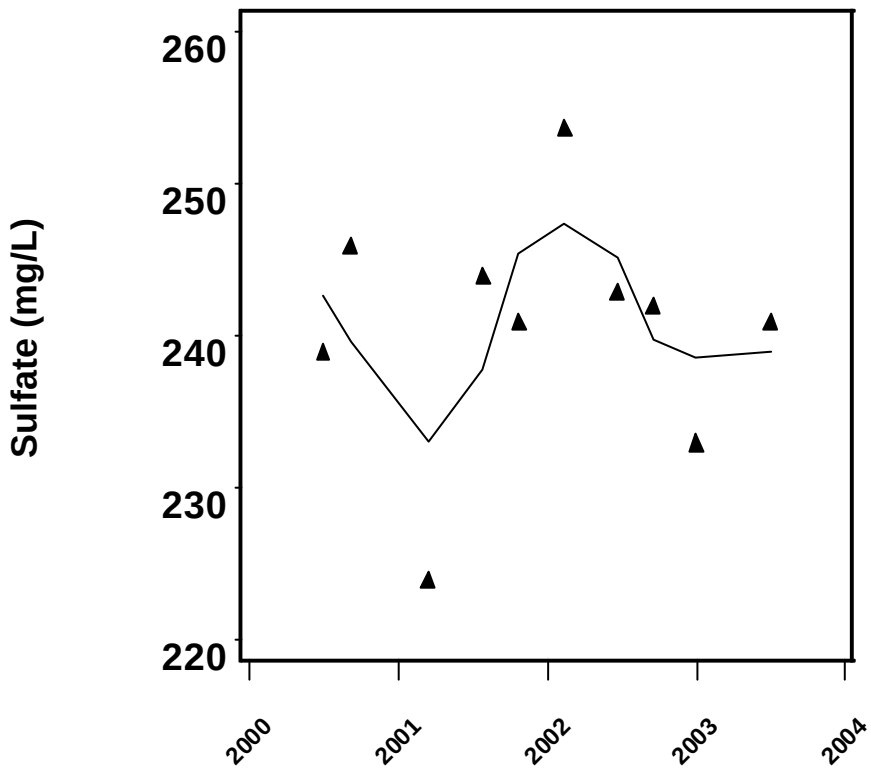
Appendix B-123. Water Quality Scatterplots Fitted with a LOWESS Curve for TBC – 09.



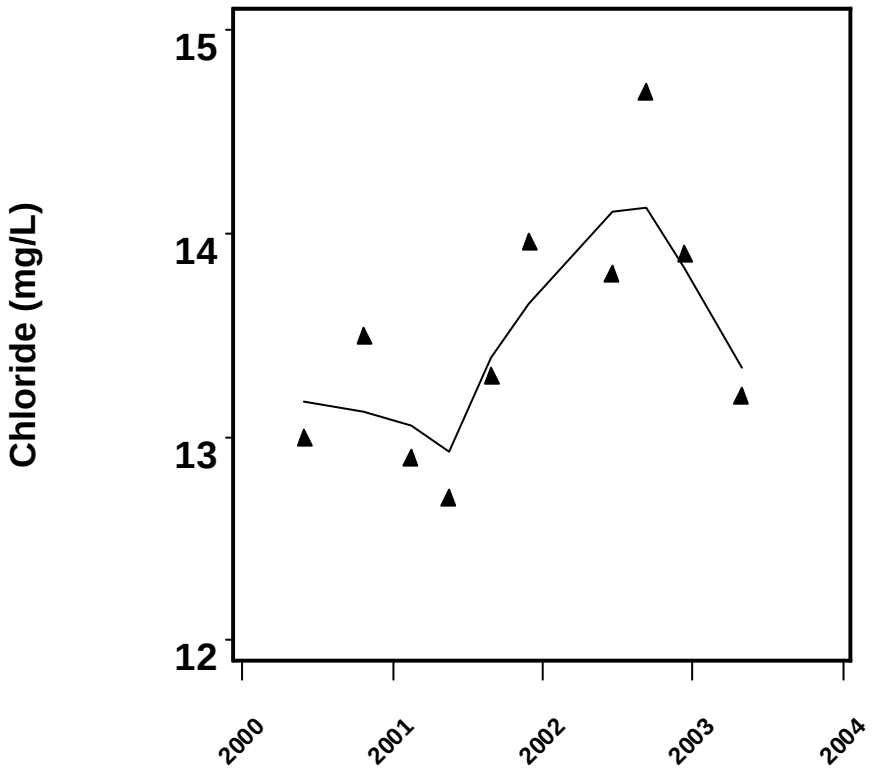


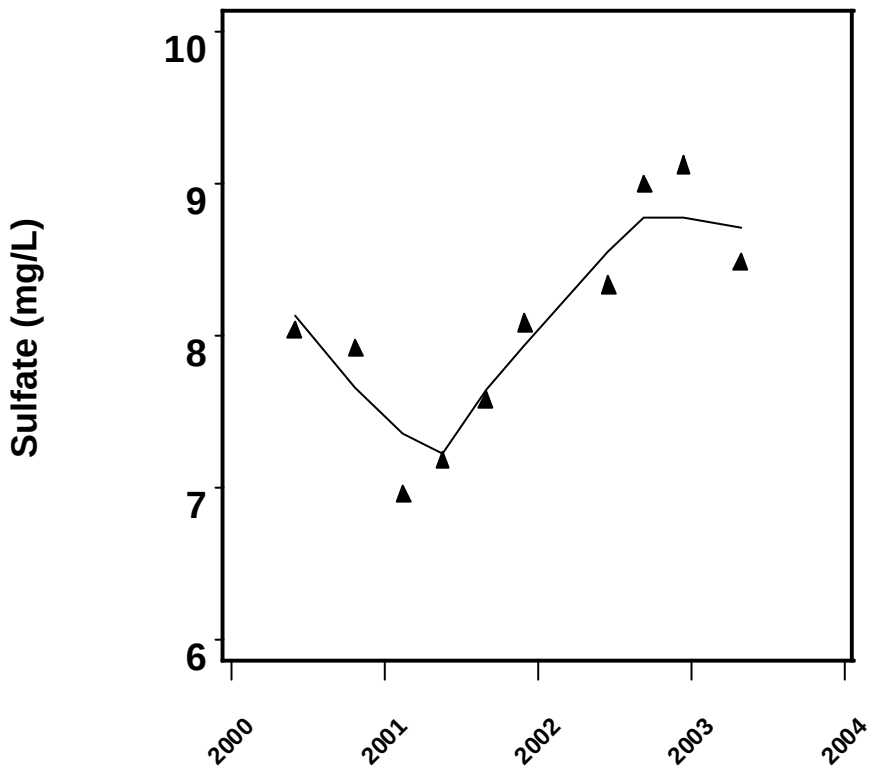
Appendix B-124. Water Quality Scatterplots Fitted with a LOWESS Curve for TOURIST CLUB WL AT SUL SP.



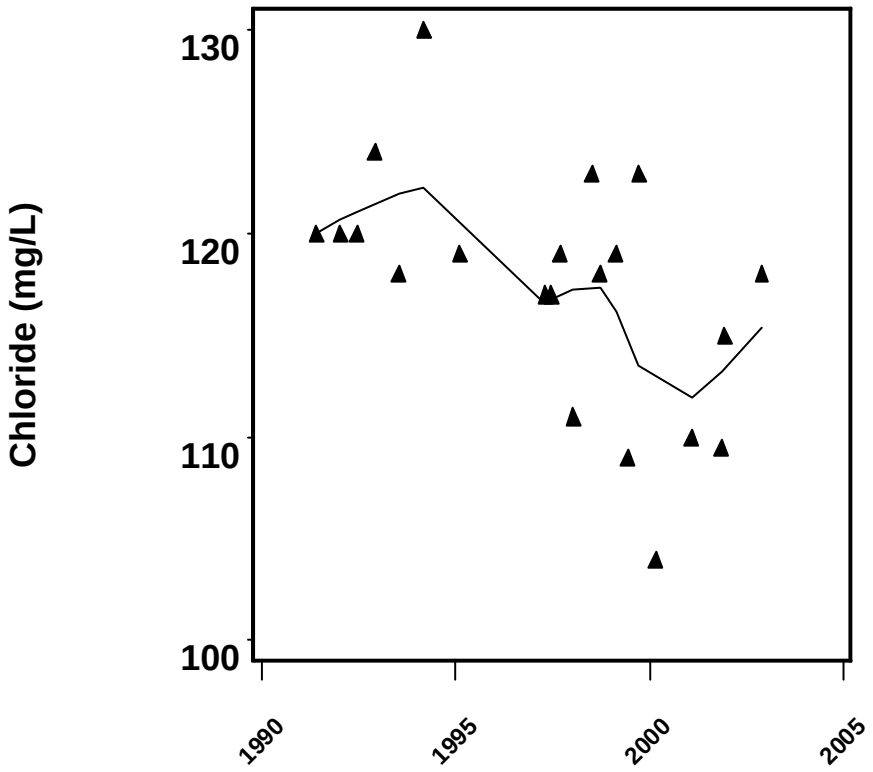


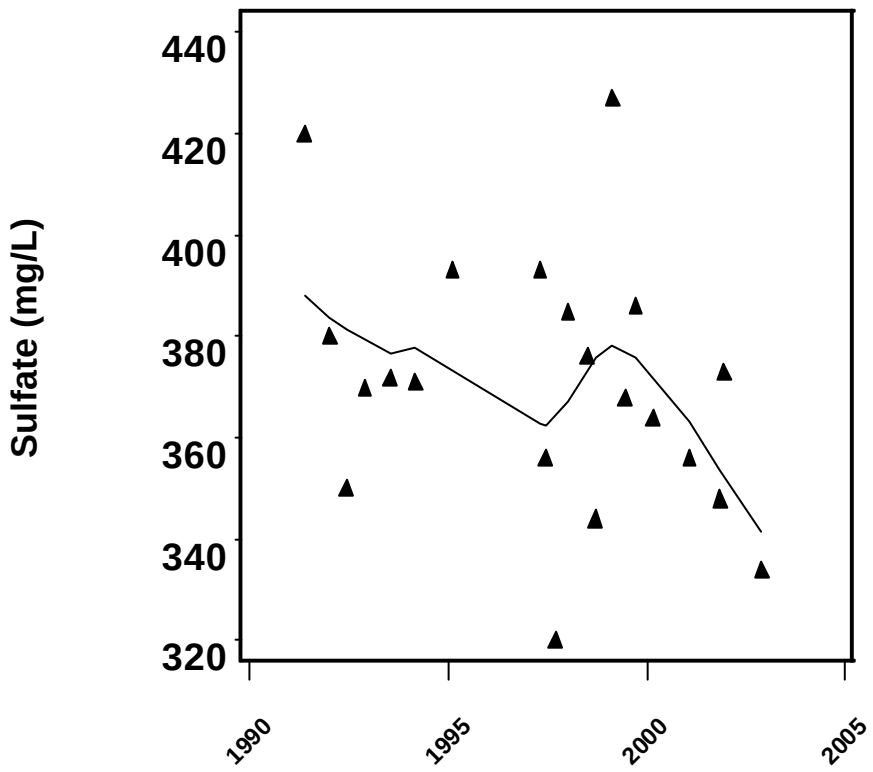
Appendix B-125. Water Quality Scatterplots Fitted with a LOWESS Curve for TROPICAL RIVER GROVE.



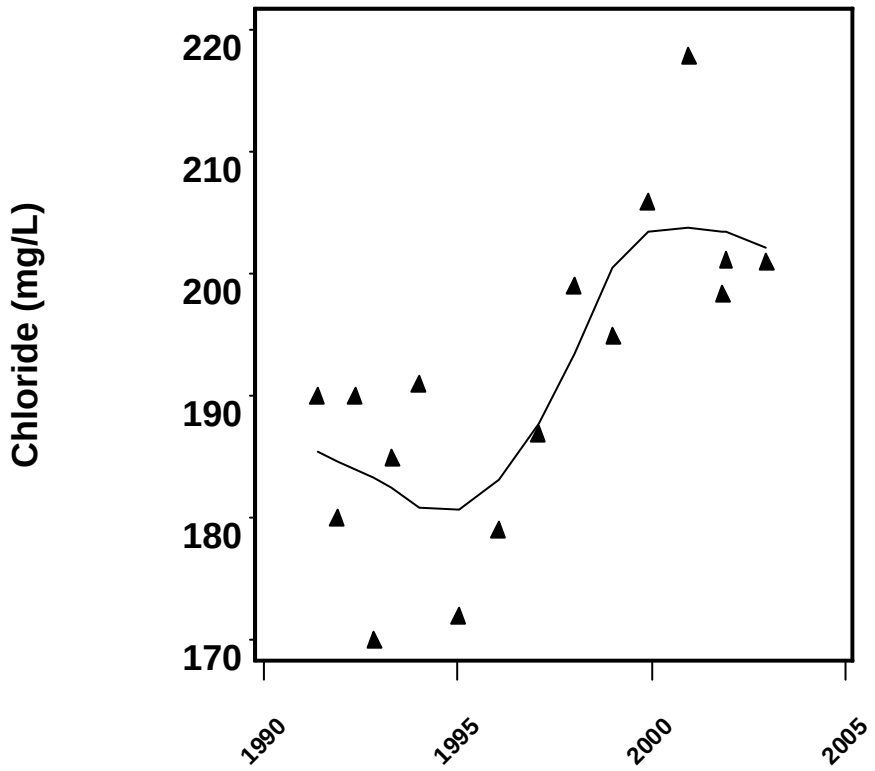


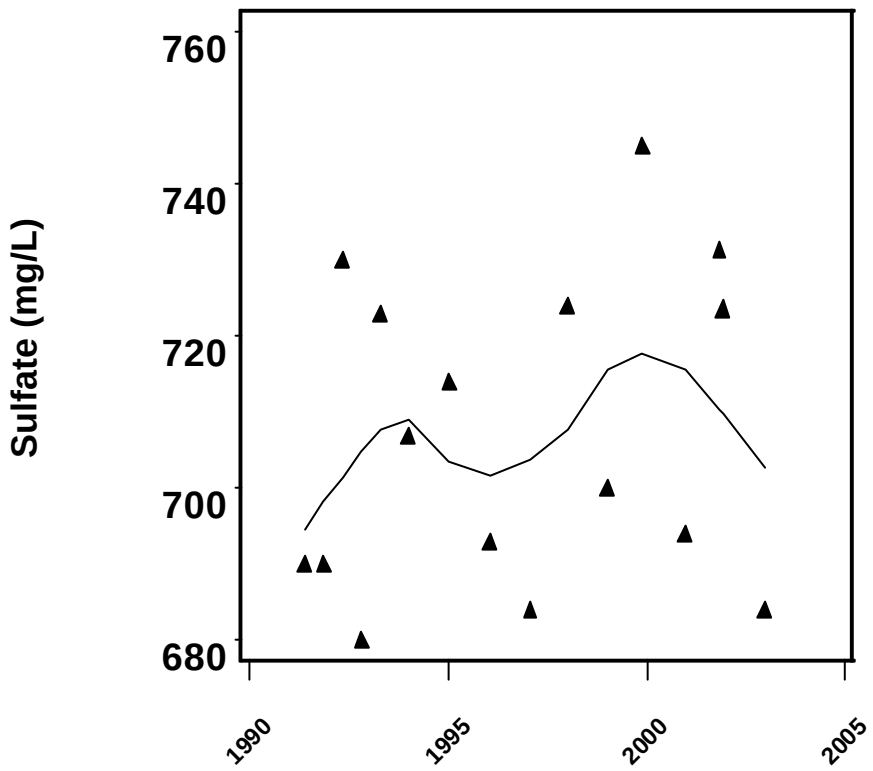
Appendix B-126. Water Quality Scatterplots Fitted with a LOWESS Curve for TURNER WELL.



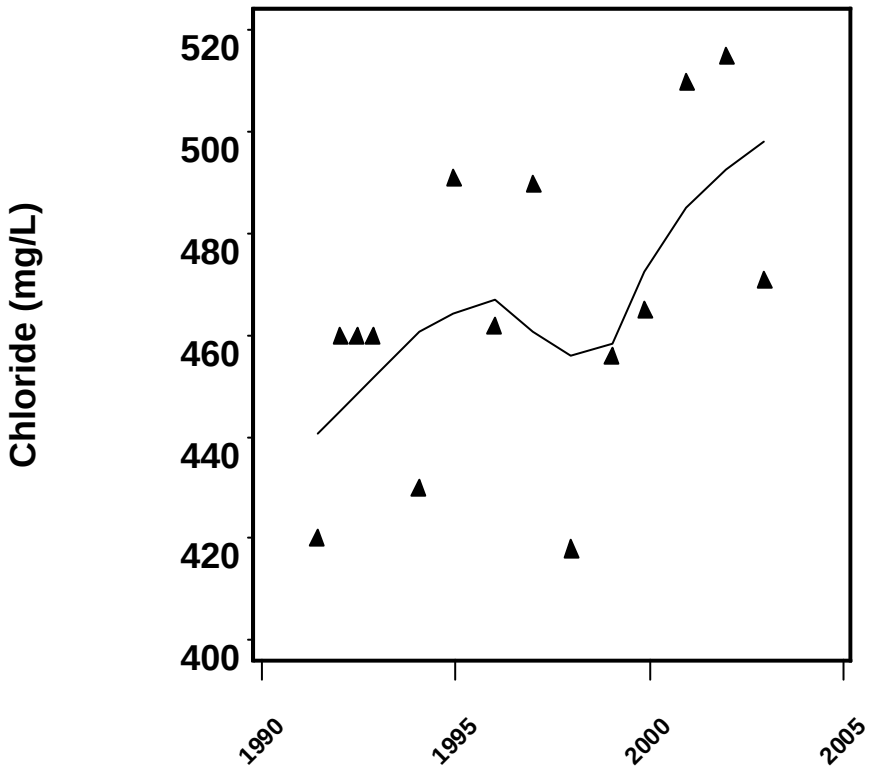


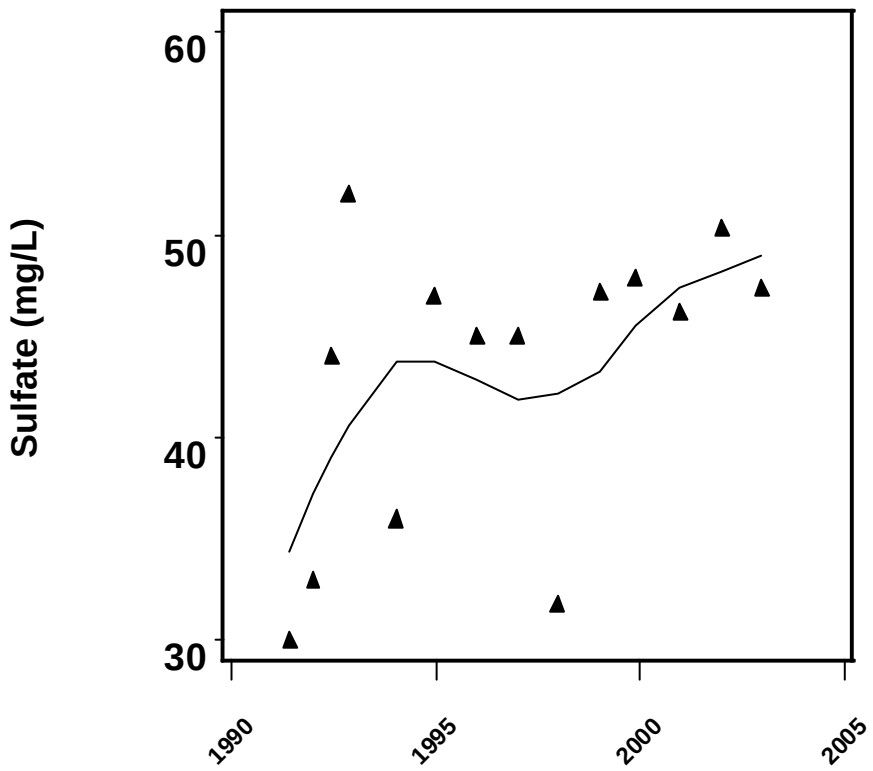
Appendix B-127. Water Quality Scatterplots Fitted with a LOWESS Curve for VENICE 2E.



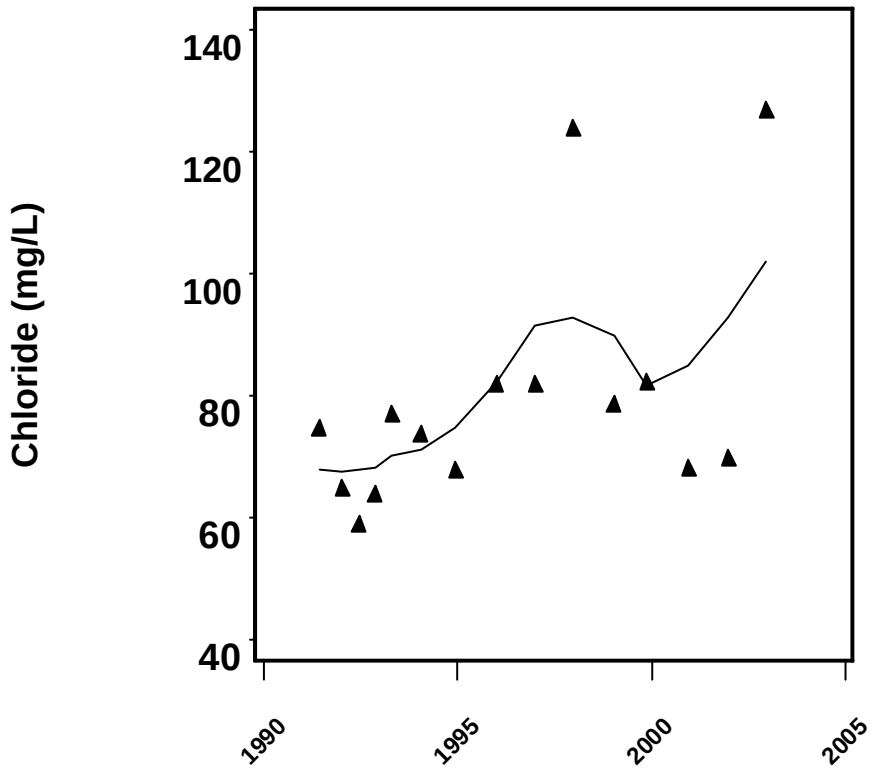


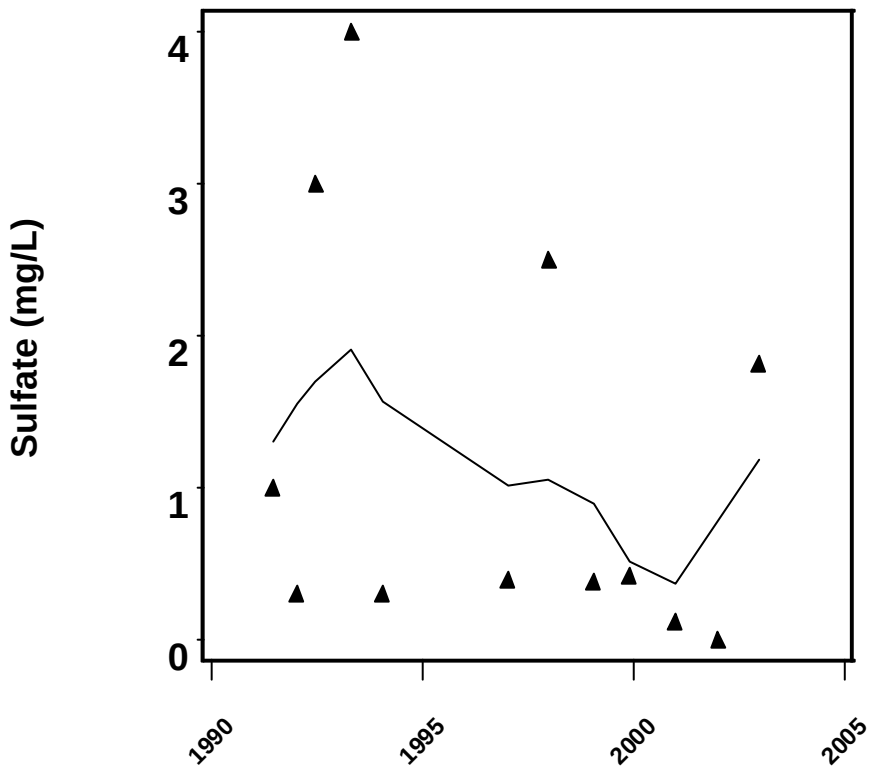
Appendix B-128. Water Quality Scatterplots Fitted with a LOWESS Curve for WELL 220 AT ADAMSVILLE.



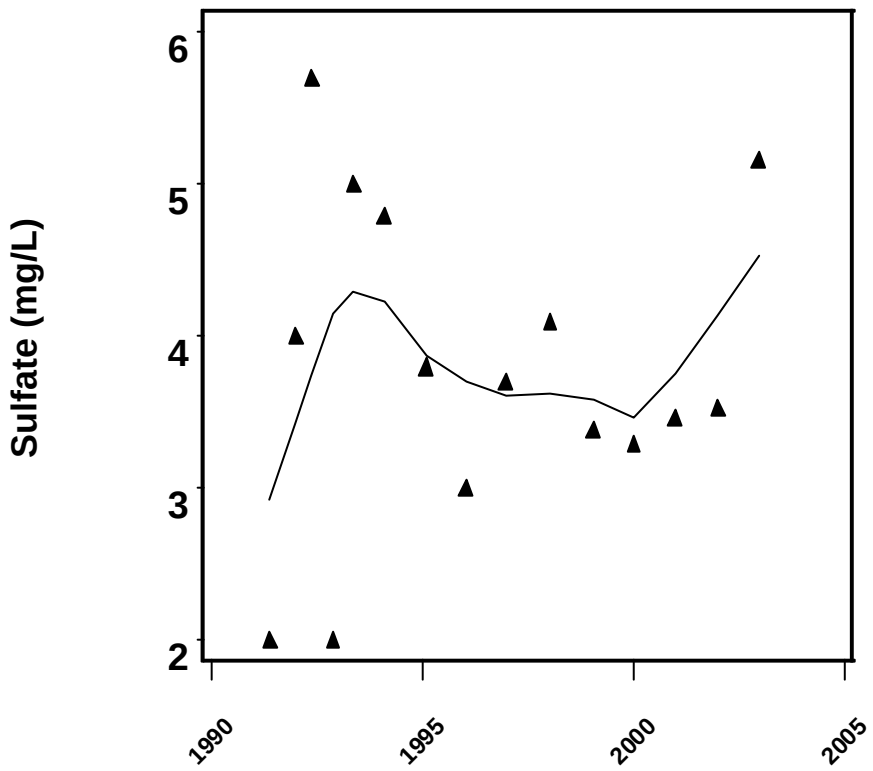


Appendix B-129. Water Quality Scatterplots Fitted with a LOWESS Curve for WHITING WELL DEEP.

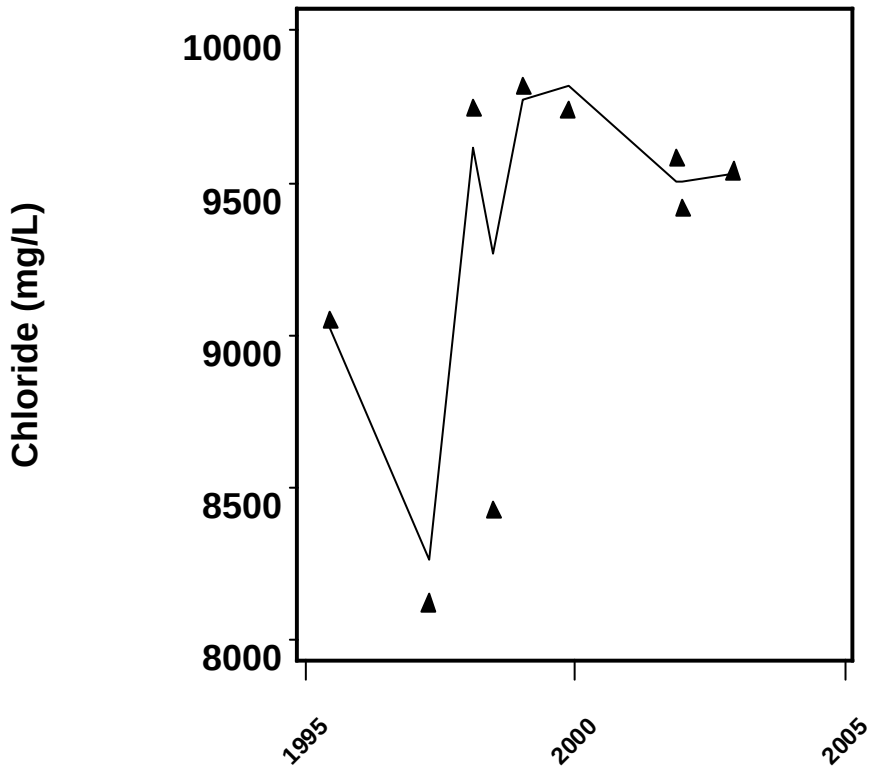


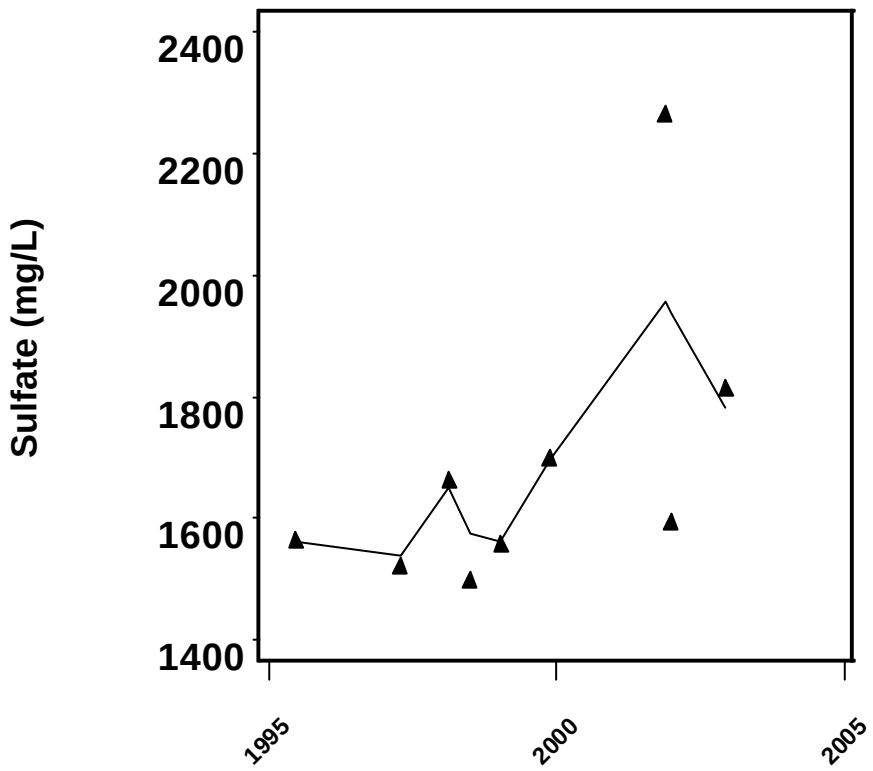


Appendix B-130. Water Quality Scatterplots Fitted with a LOWESS Curve for WHITING WELL SHALLOW.

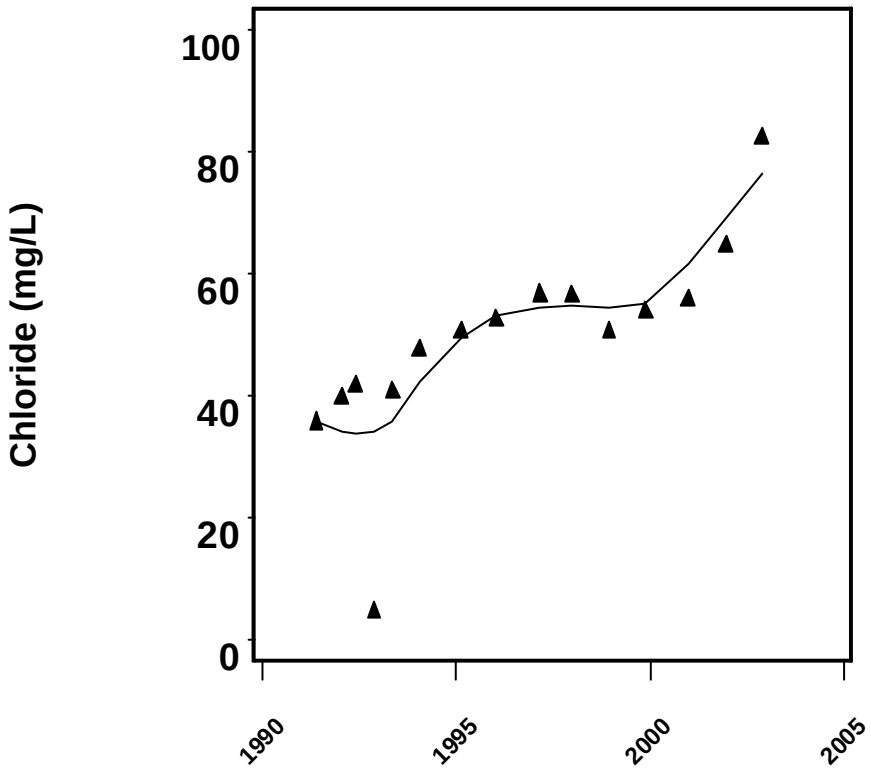


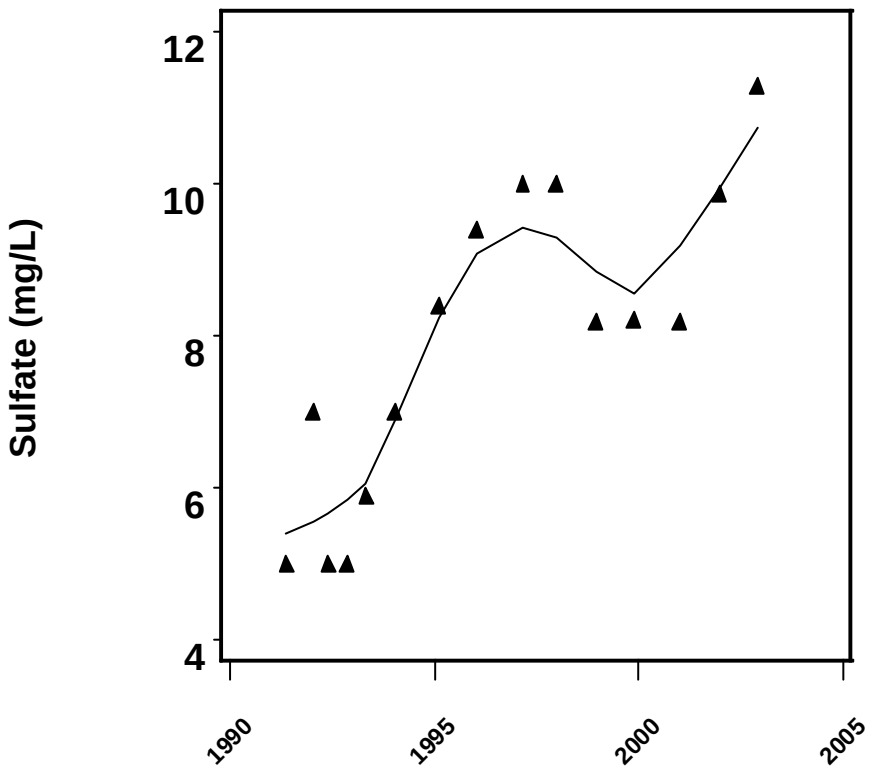
Appendix B-131. Water Quality Scatterplots Fitted with a LOWESS Curve for WITHLACOOCHEE ELECTRIC CO.



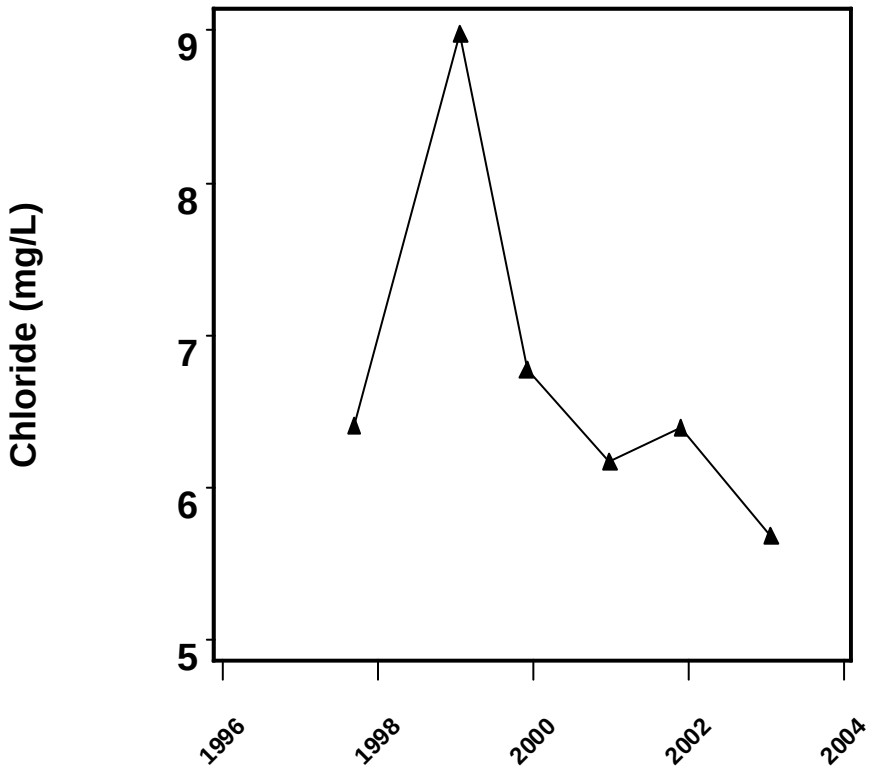


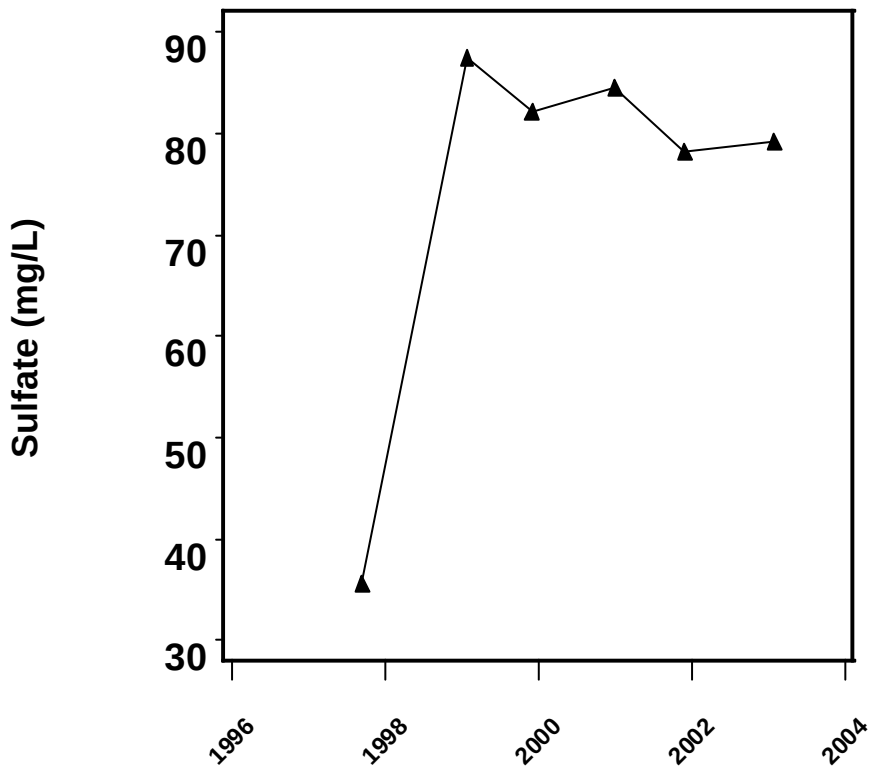
Appendix B-132. Water Quality Scatterplots Fitted with a LOWESS Curve for WOLF BRANCH #5.



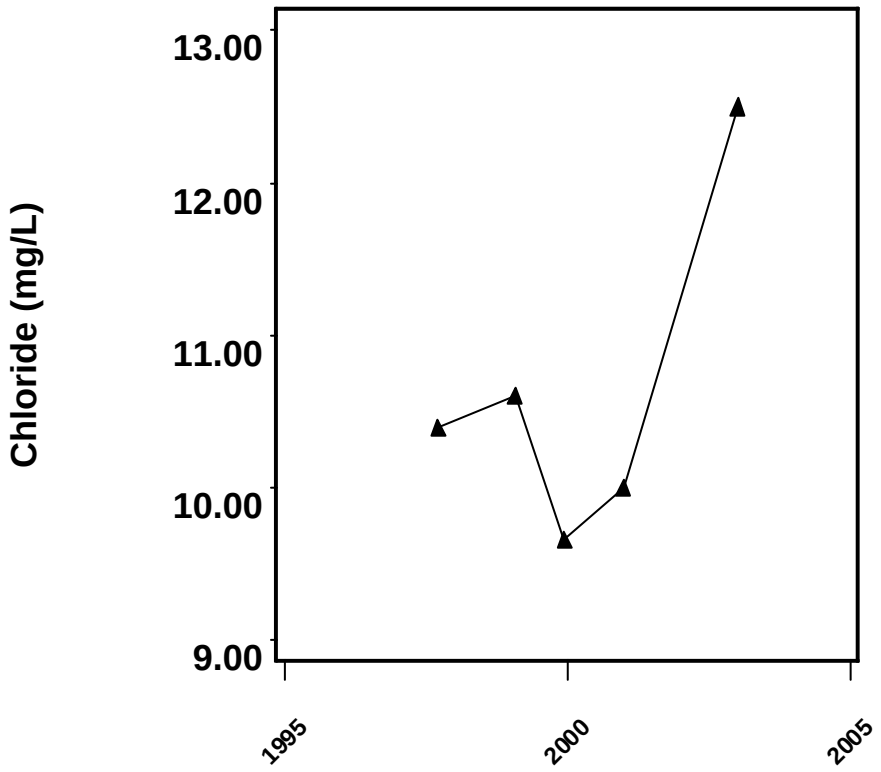


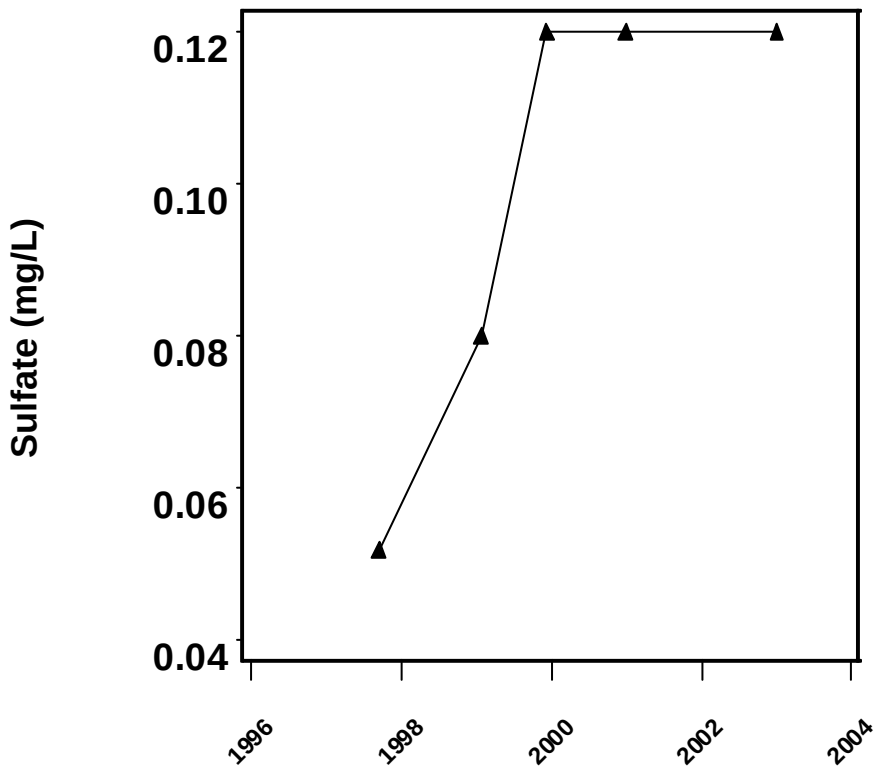
Appendix C-1. Water Quality Scatterplots Fitted with a LOWESS Curve for BAPTIST CHURCH PASTORIUM.



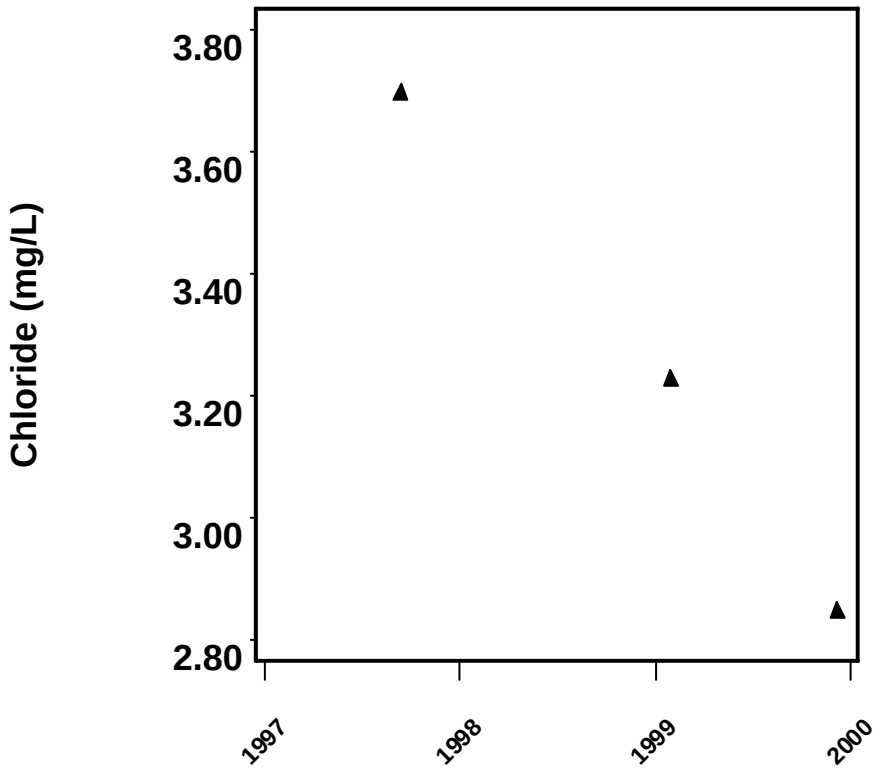


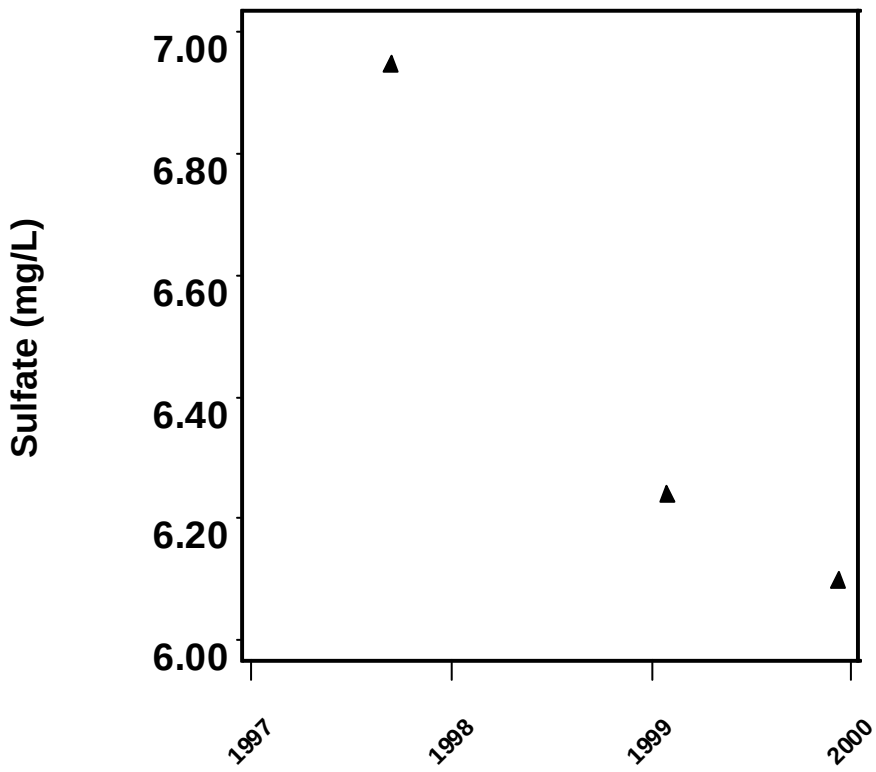
Appendix C-2. Water Quality Scatterplots Fitted with a LOWESS Curve for CE 5.



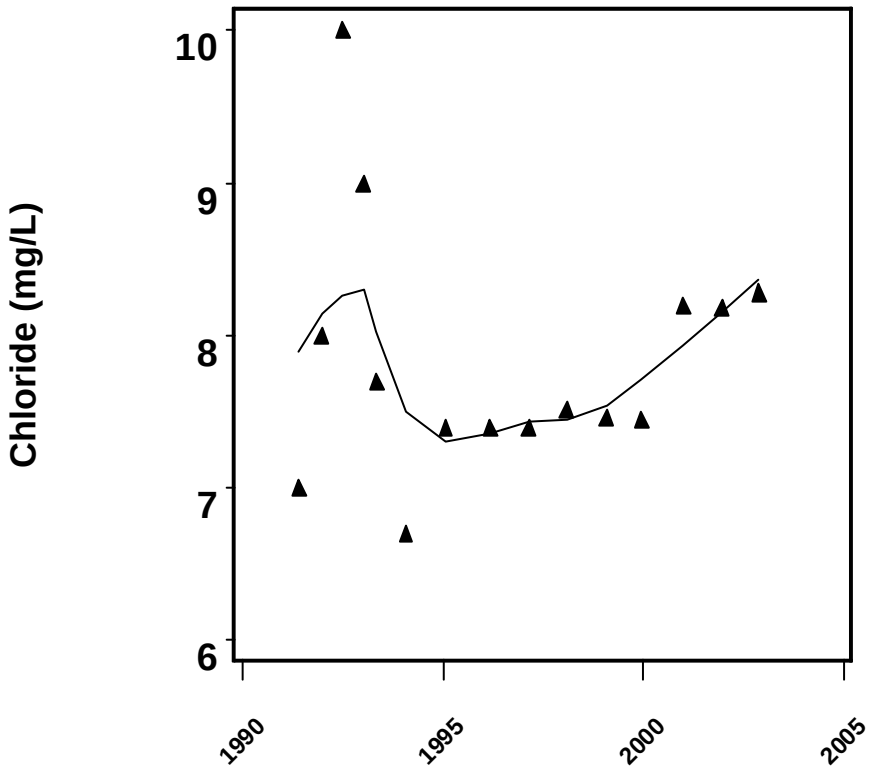


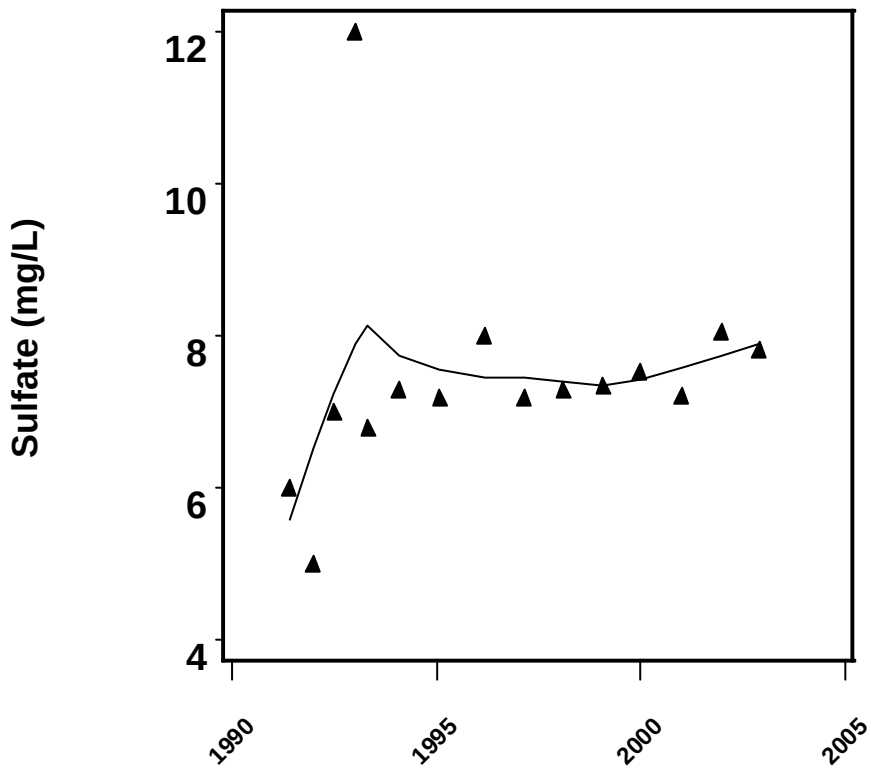
Appendix C-3. Water Quality Scatterplots Fitted with a LOWESS Curve for CE 70.



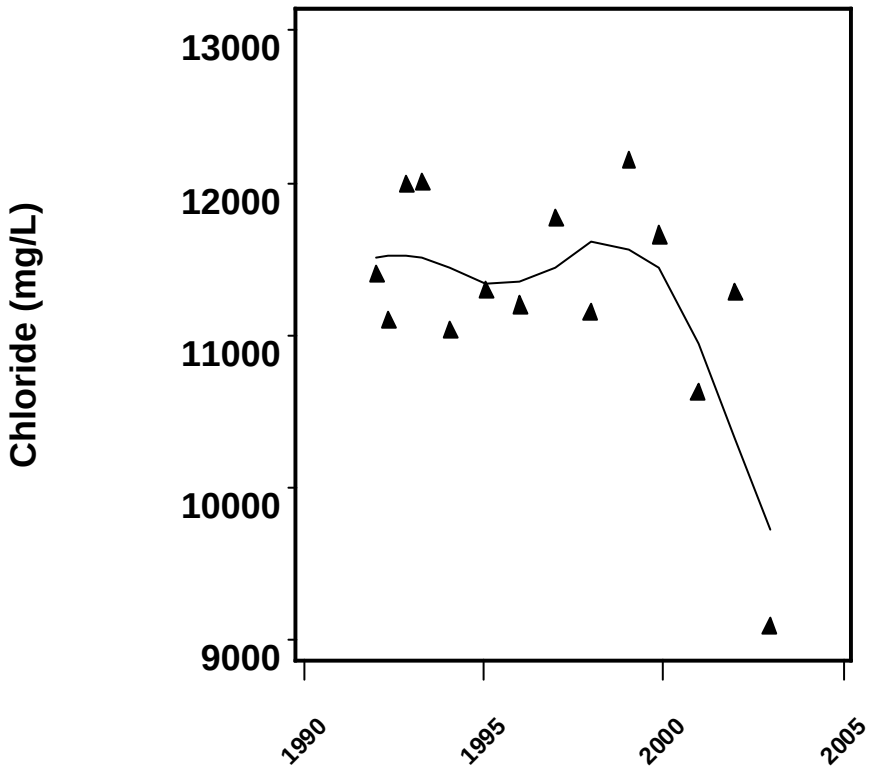


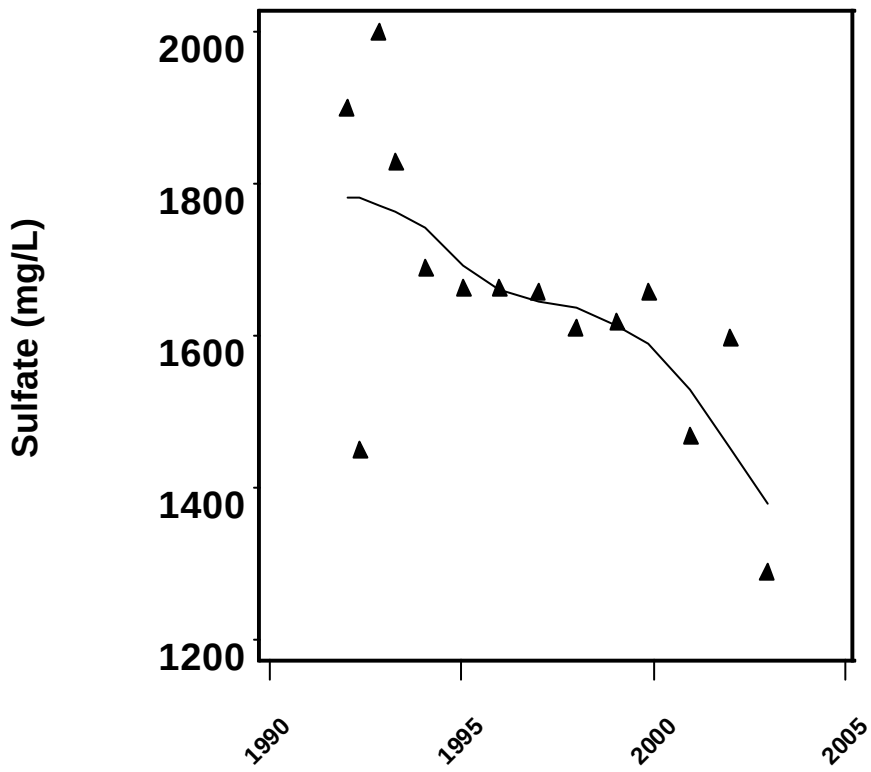
Appendix C-4. Water Quality Scatterplots Fitted with a LOWESS Curve for CE 77.



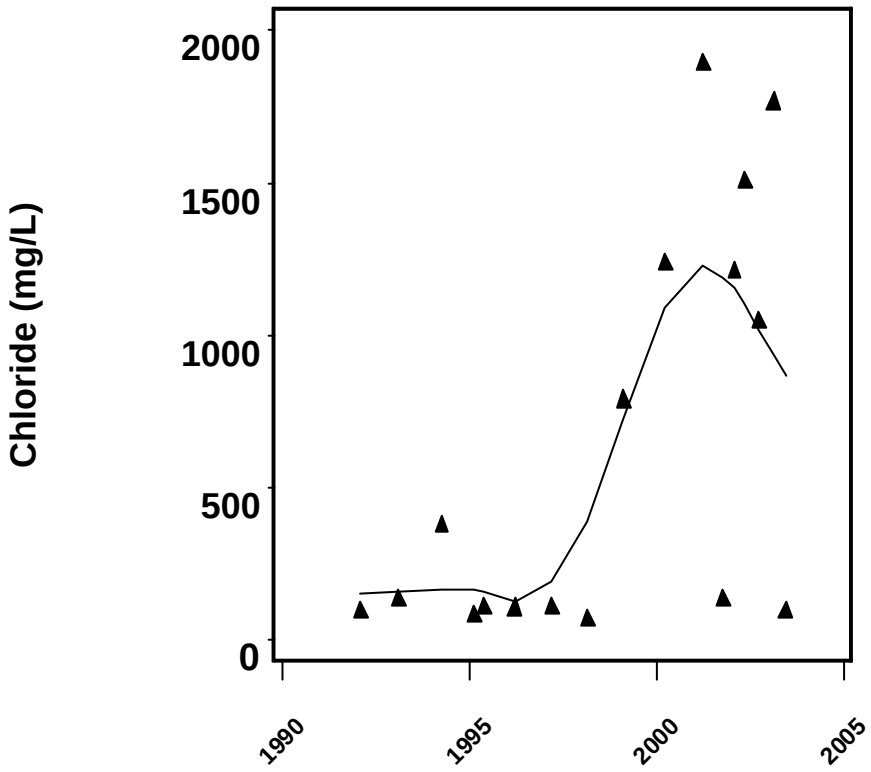


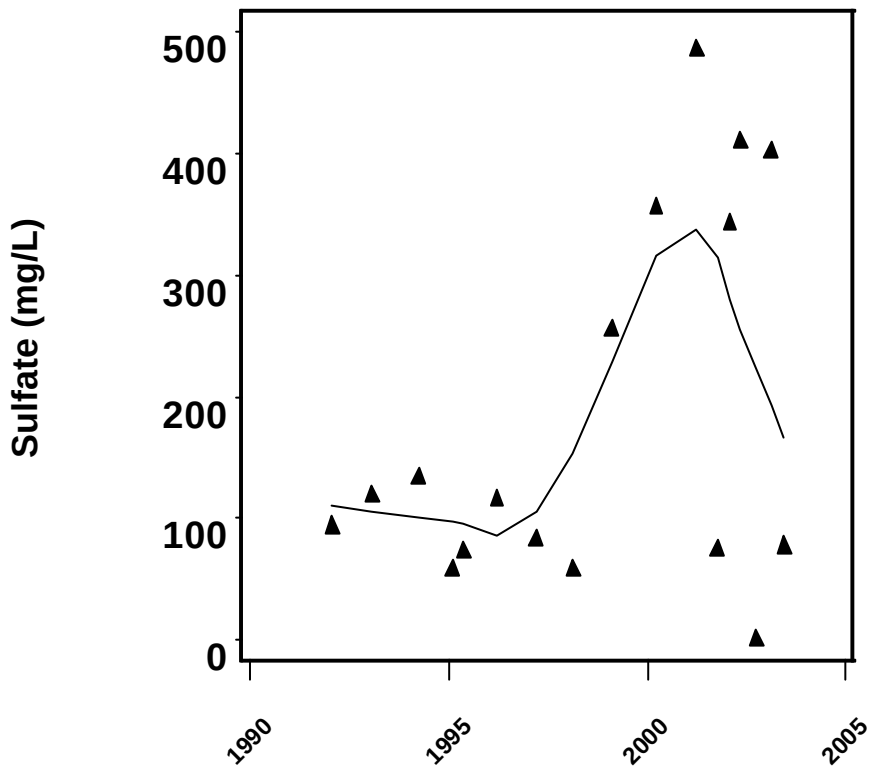
Appendix C-5. Water Quality Scatterplots Fitted with a LOWESS Curve for CHASSAHOWITZKA #1



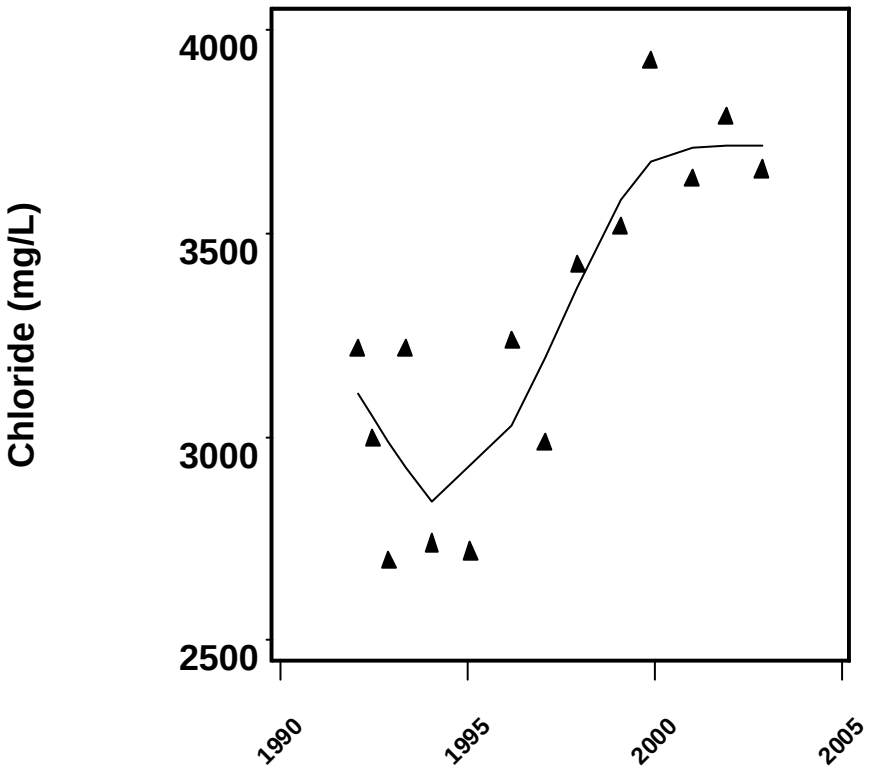


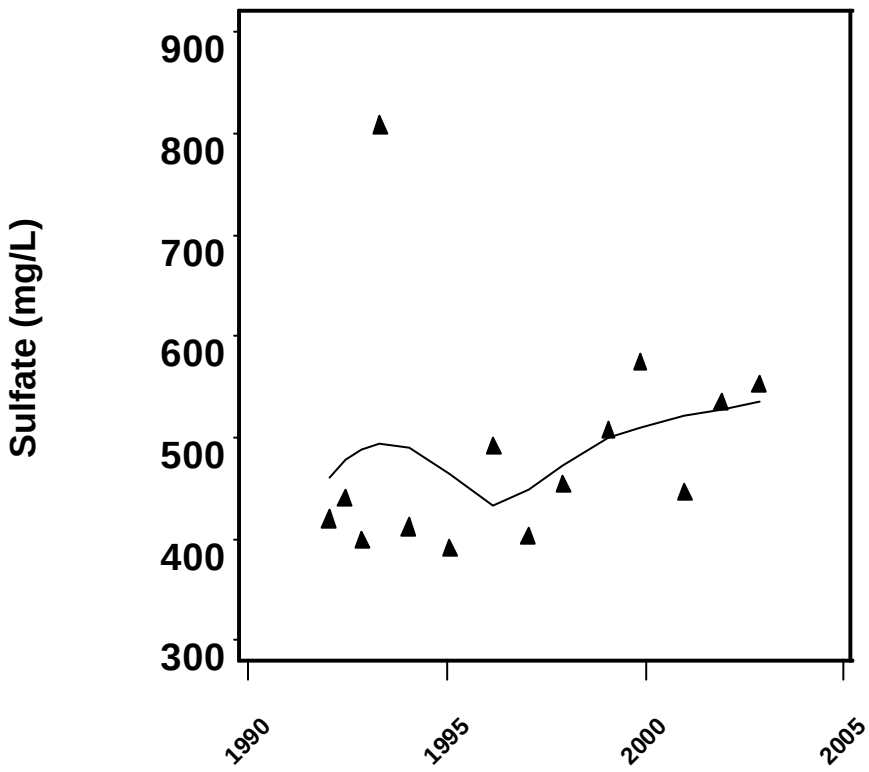
Appendix C-6. Water Quality Scatterplots Fitted with a LOWESS Curve for COASTAL PASCO #2.



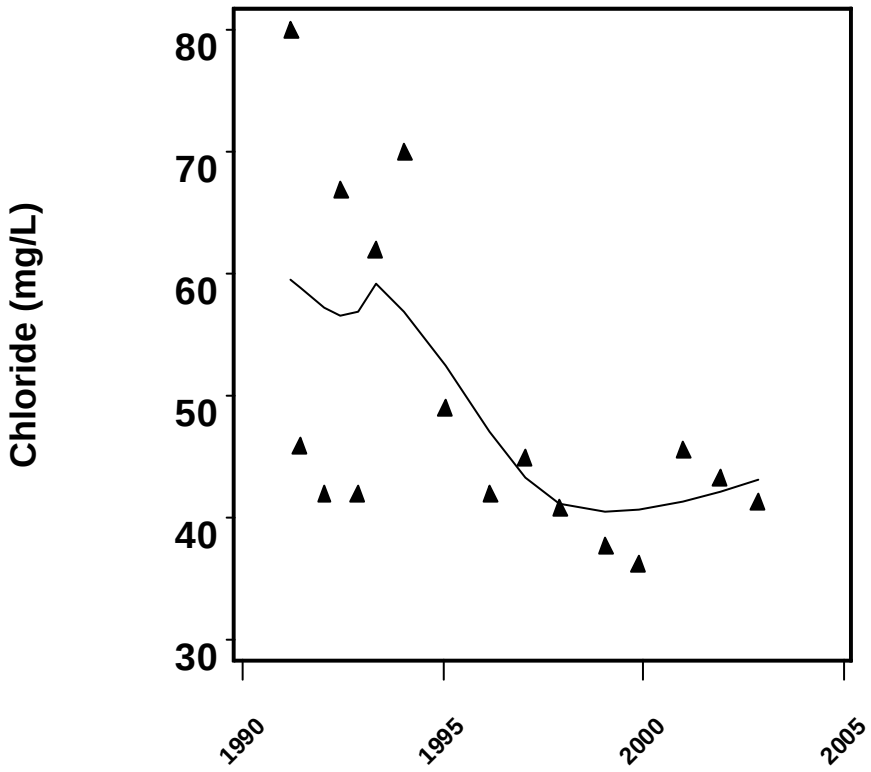


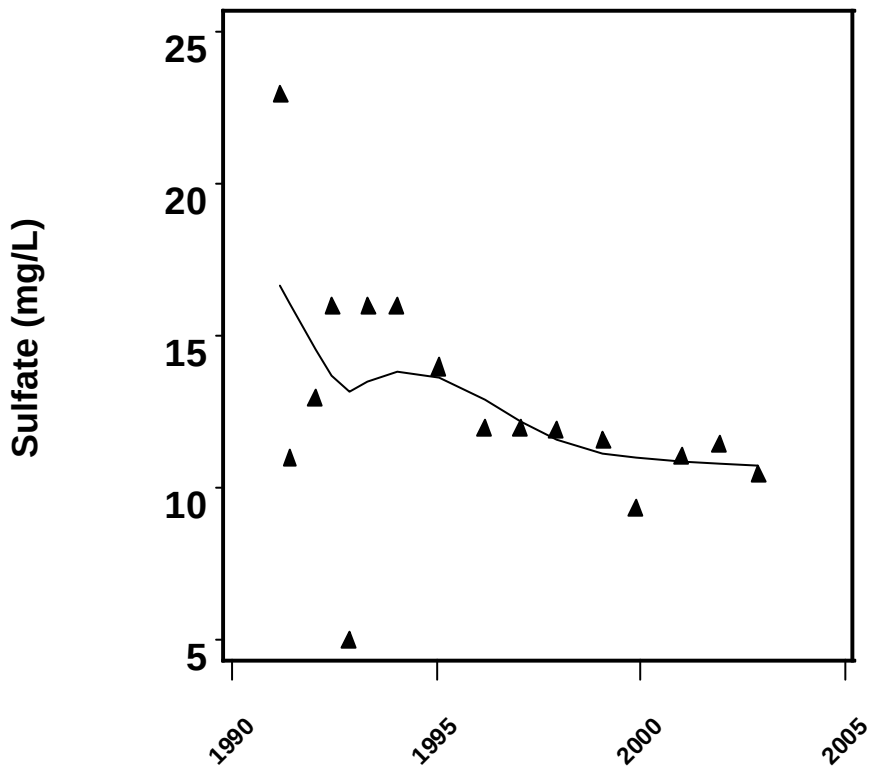
Appendix C-7. Water Quality Scatterplots Fitted with a LOWESS Curve for CROMWELL WELL #1.



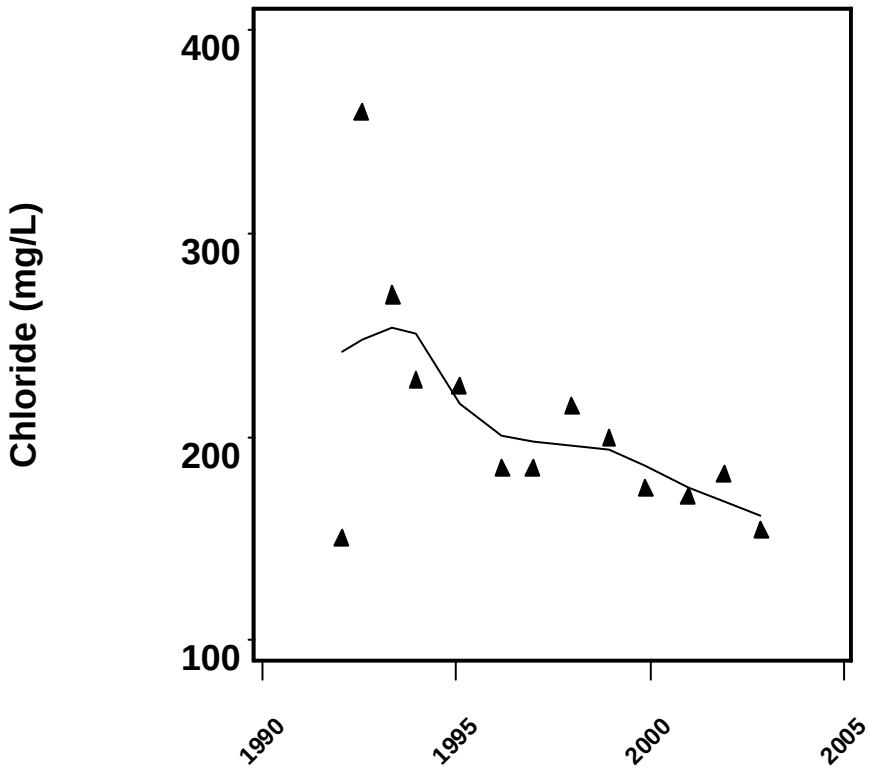


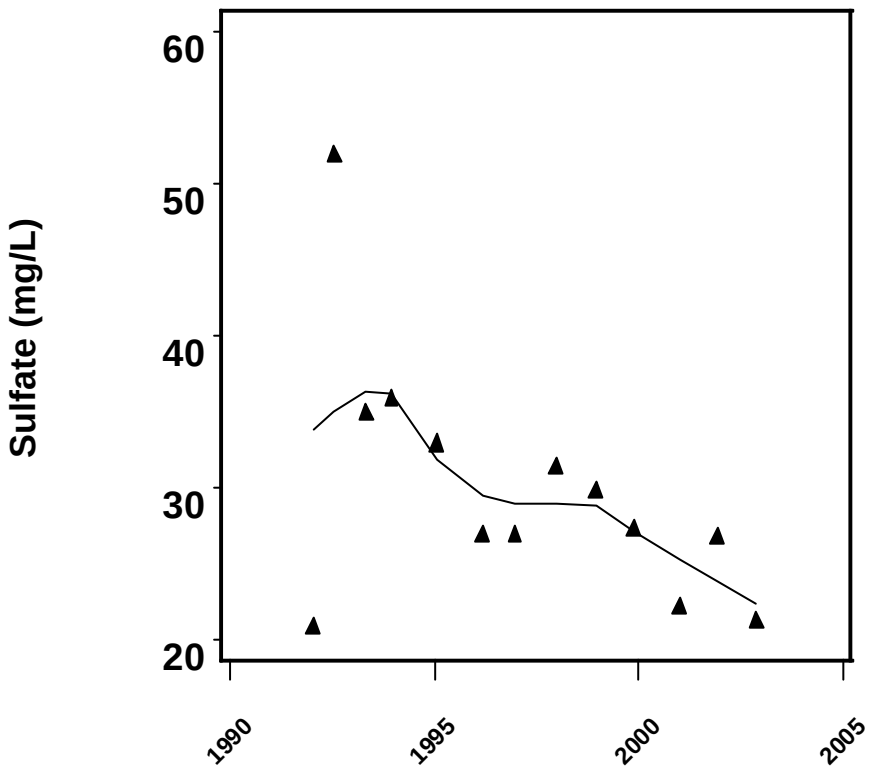
Appendix C-8. Water Quality Scatterplots Fitted with a LOWESS Curve for CRYSTAL RIVER DEEP.



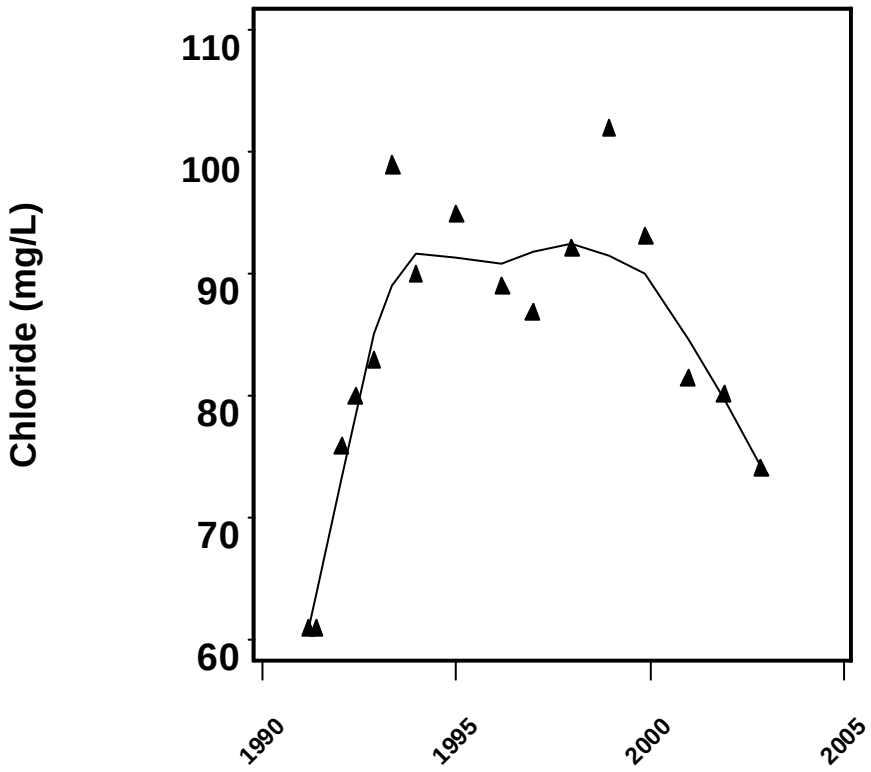


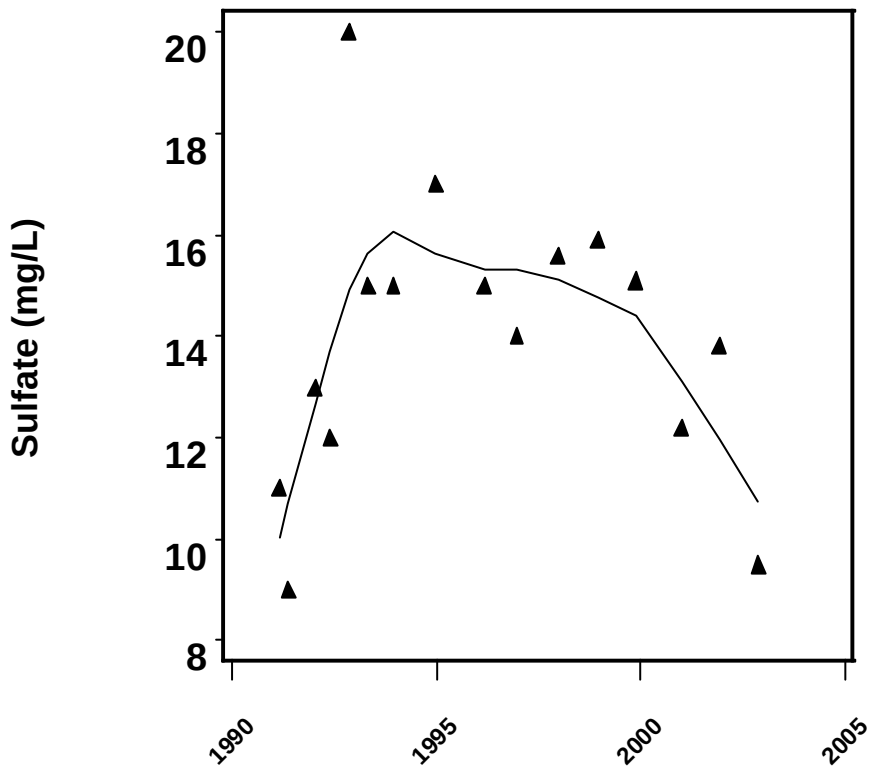
Appendix C-9. Water Quality Scatterplots Fitted with a LOWESS Curve for CRYSTAL RIVER SHALLOW.



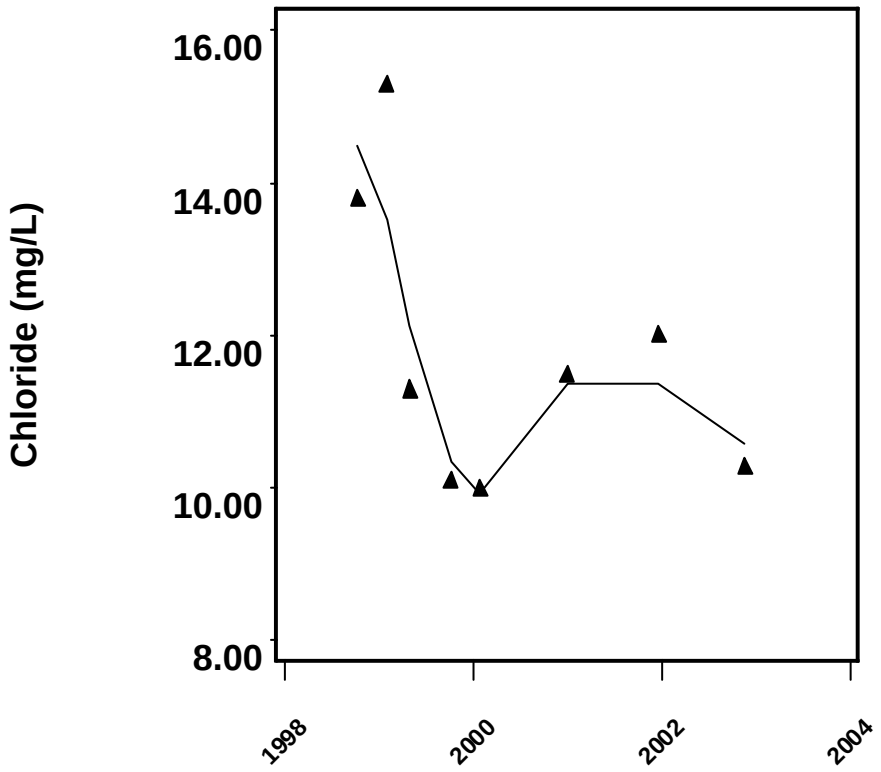


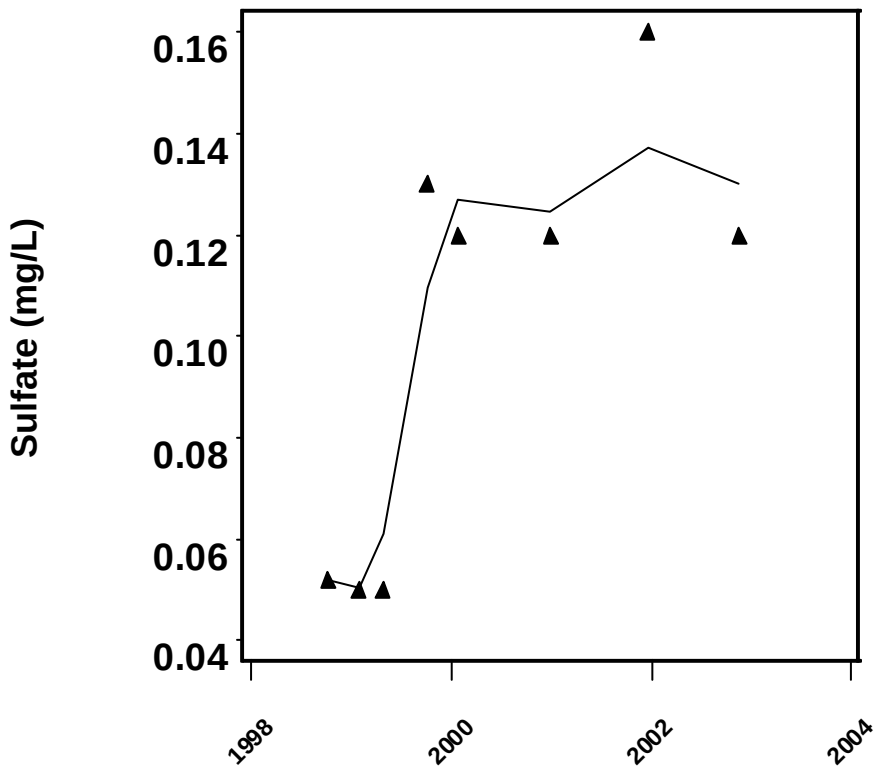
Appendix C-10. Water Quality Scatterplots Fitted with a LOWESS Curve for CRYSTAL SHORES ESTATES.



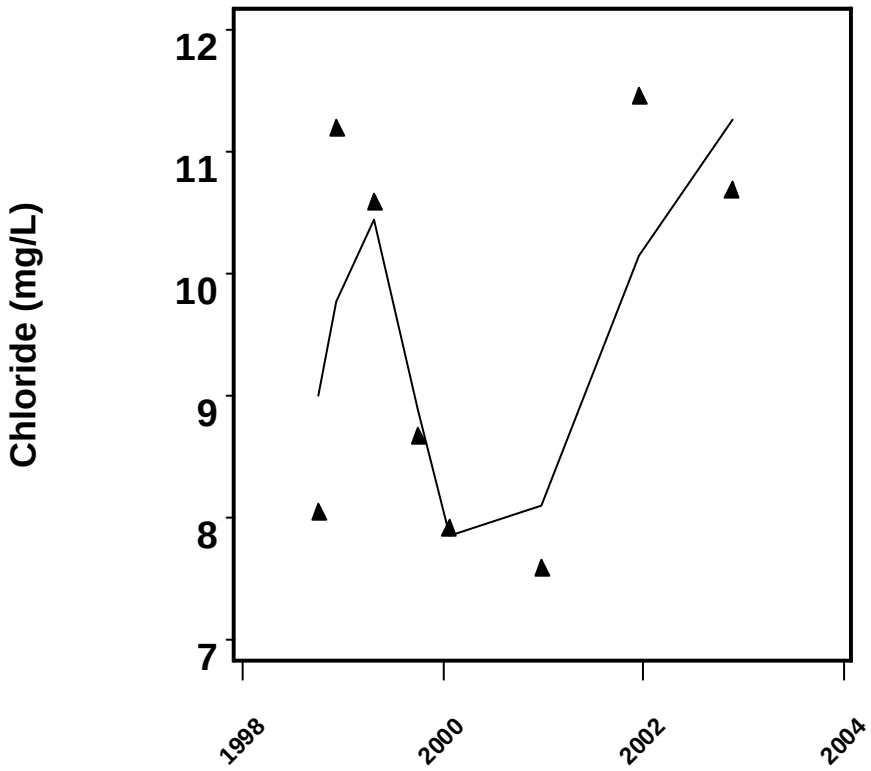


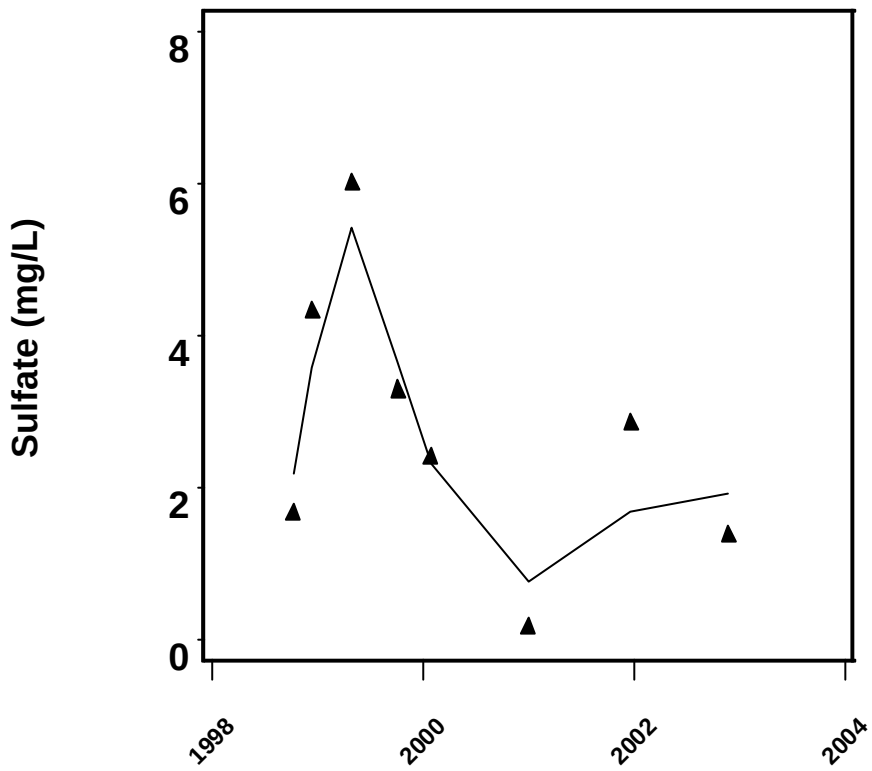
Appendix C-11. Water Quality Scatterplots Fitted with a LOWESS Curve for CRYSTAL SHORES.



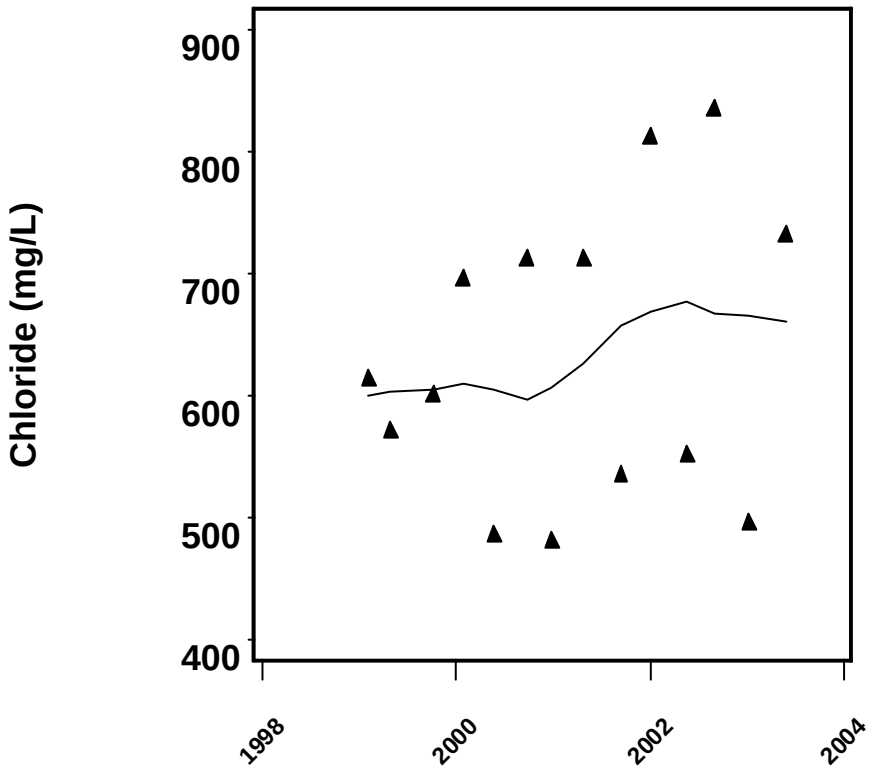


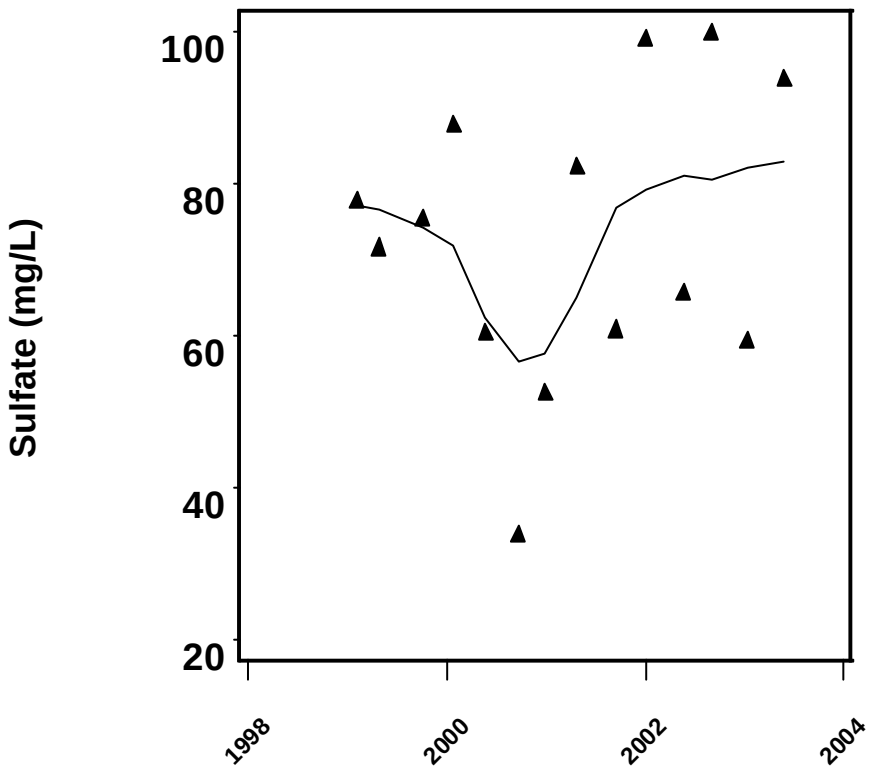
Appendix C-12. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-1 FL HOMOSASSA ATTRACTION



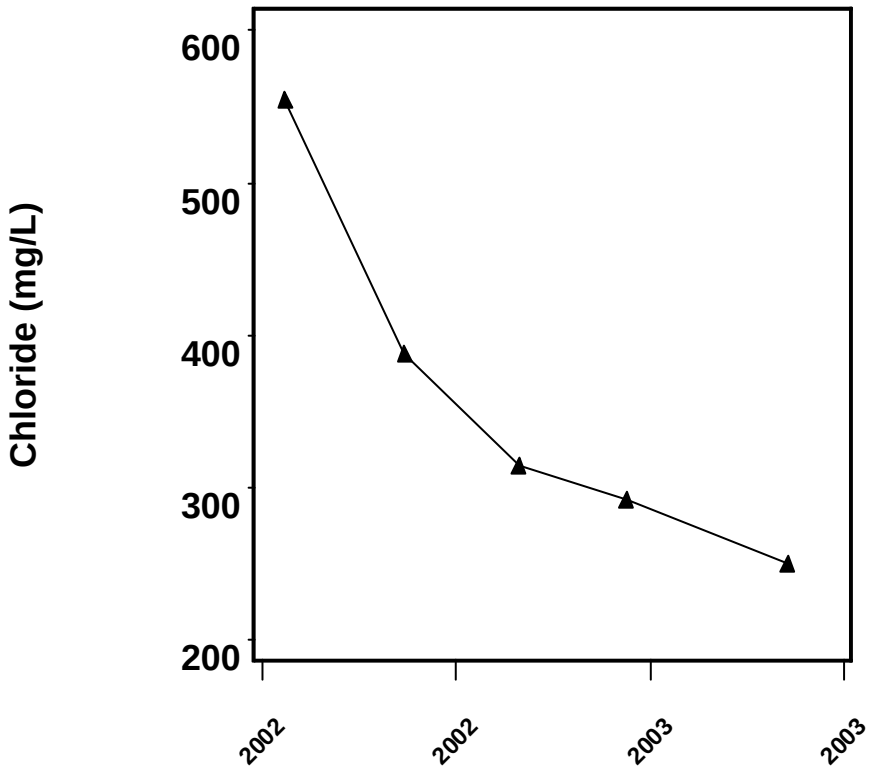


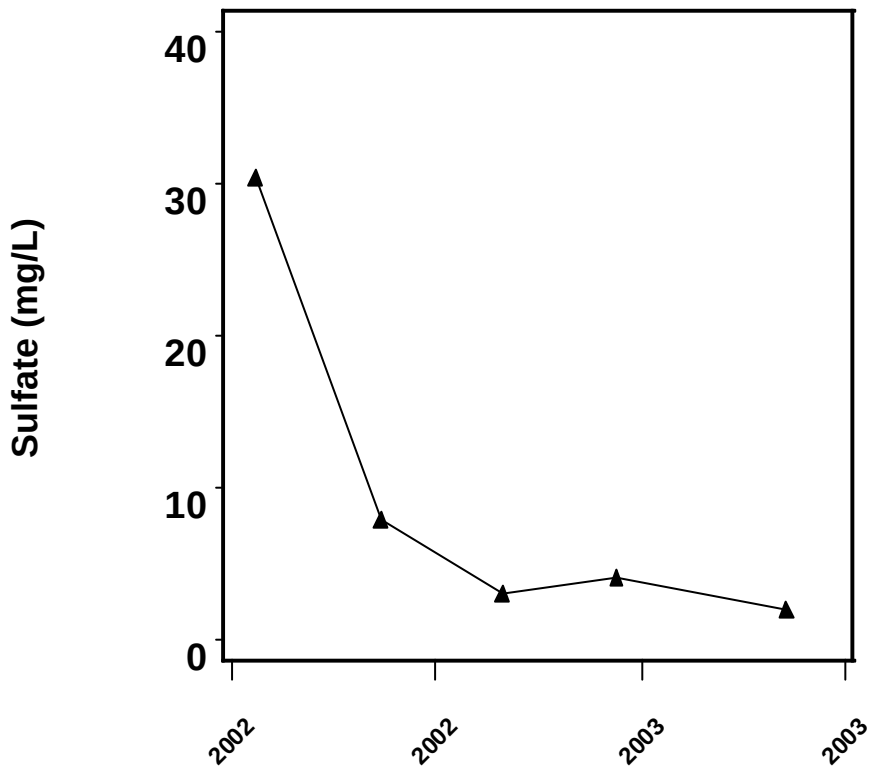
Appendix C-13. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-3 FLORIDAN.



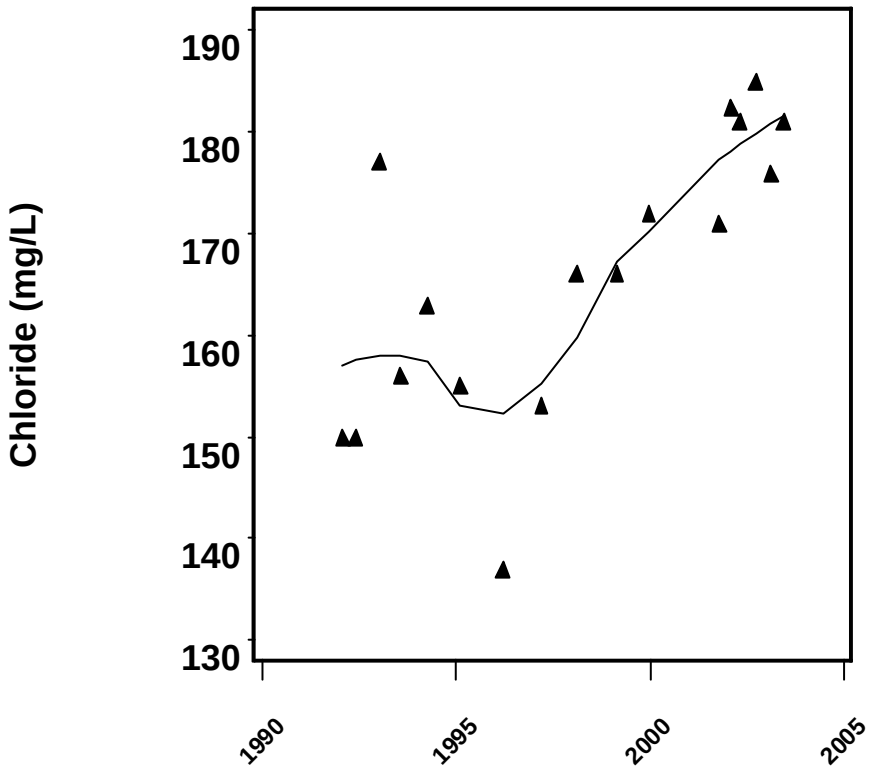


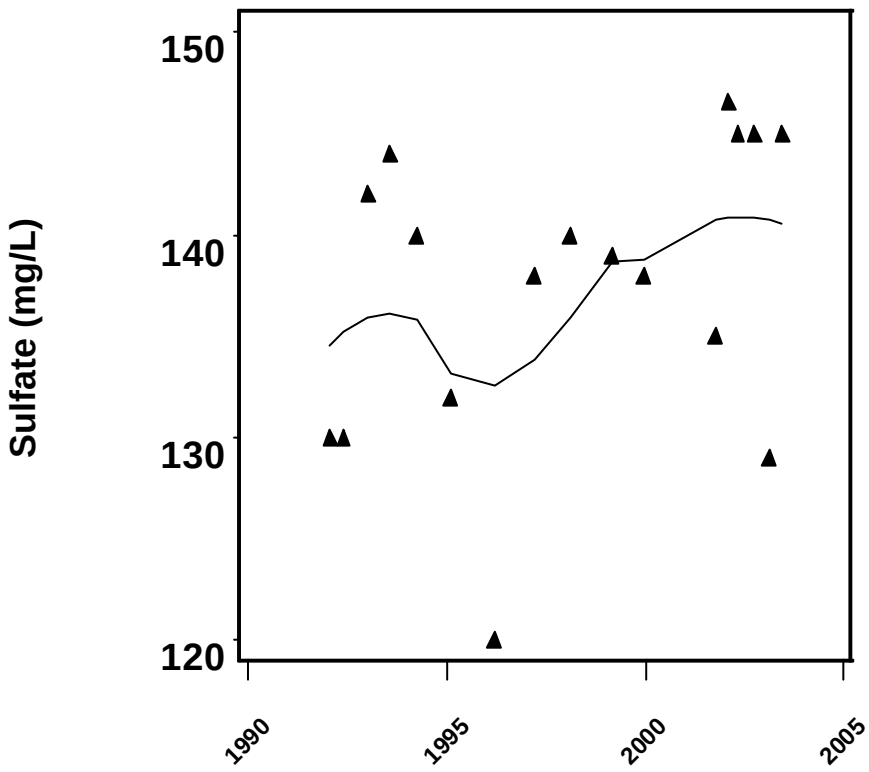
Appendix C-14. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-4 NATURES RESORT UP FL.



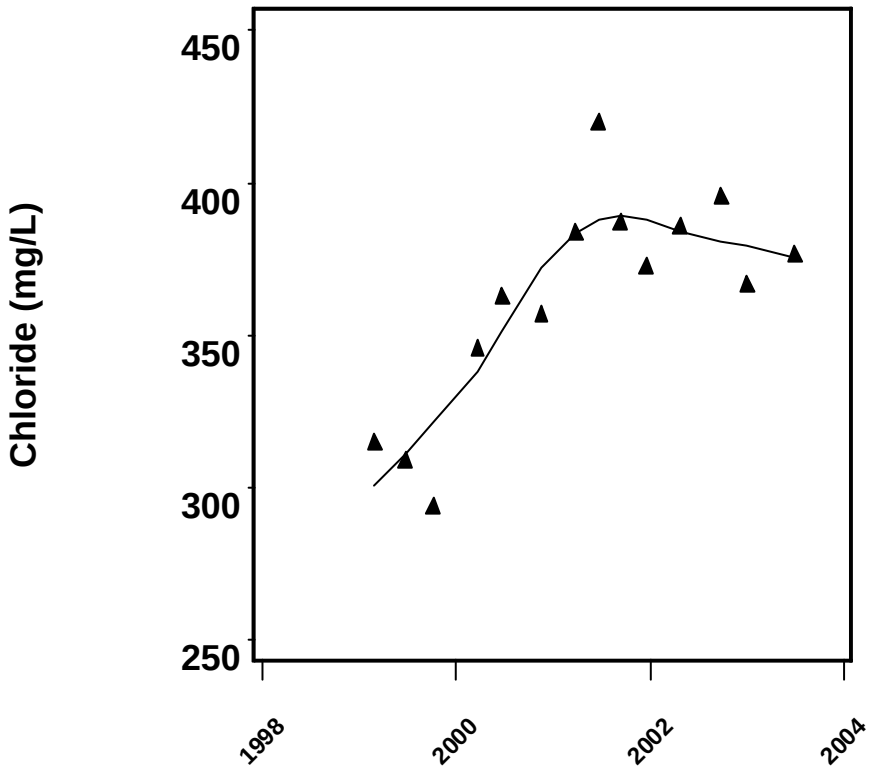


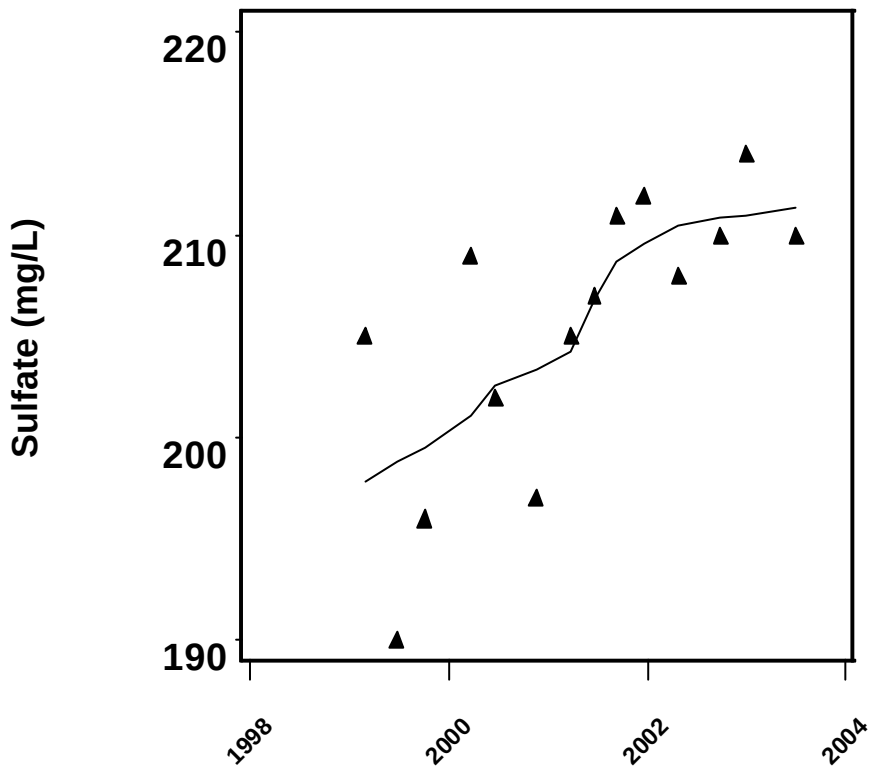
Appendix C-15. Water Quality Scatterplots Fitted with a LOWESS Curve for CSPR-6 WQ INTERFACE MONITOR.



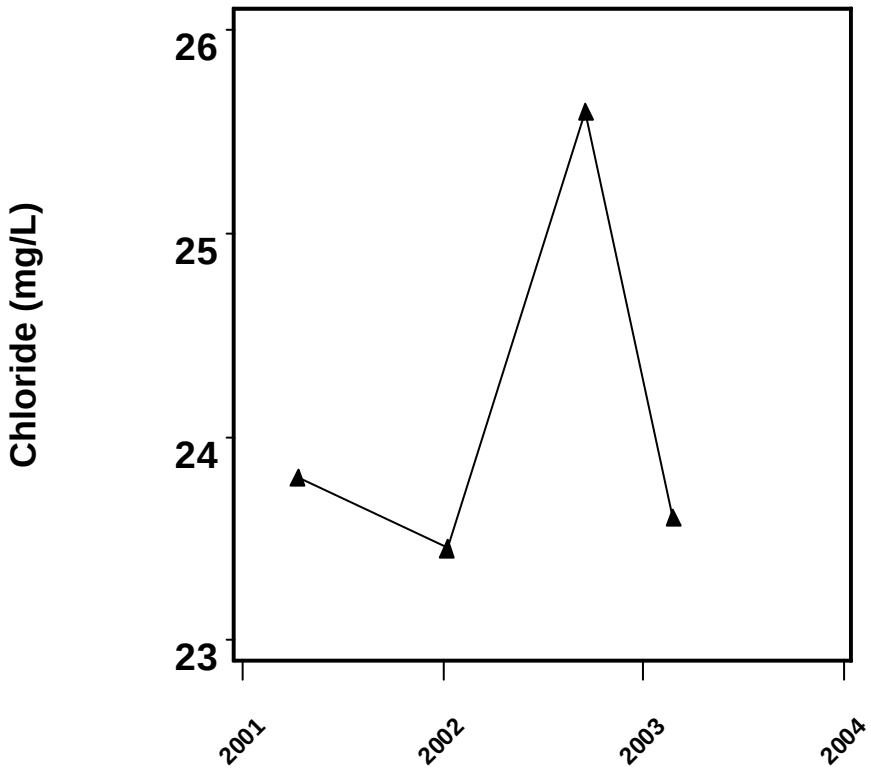


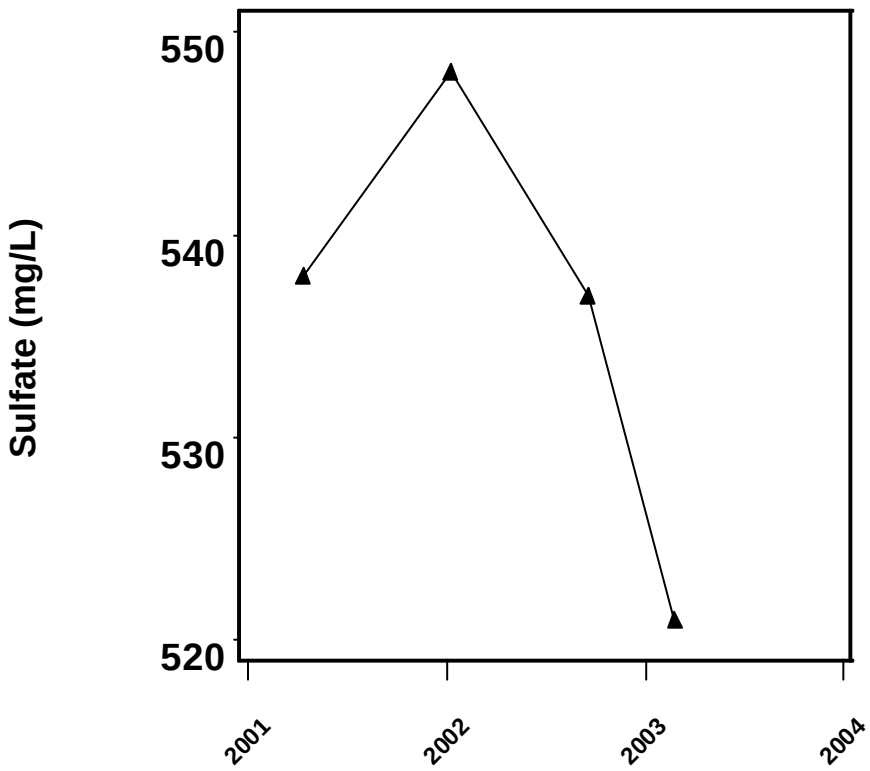
Appendix C-16. Water Quality Scatterplots Fitted with a LOWESS Curve for EMERALD ISLAND FARMS.



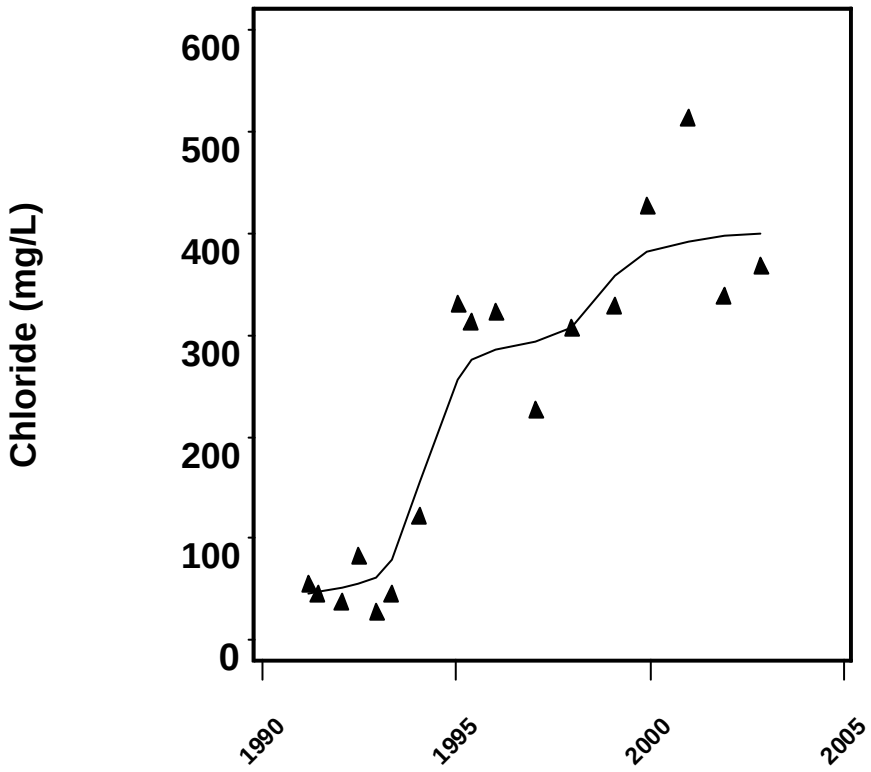


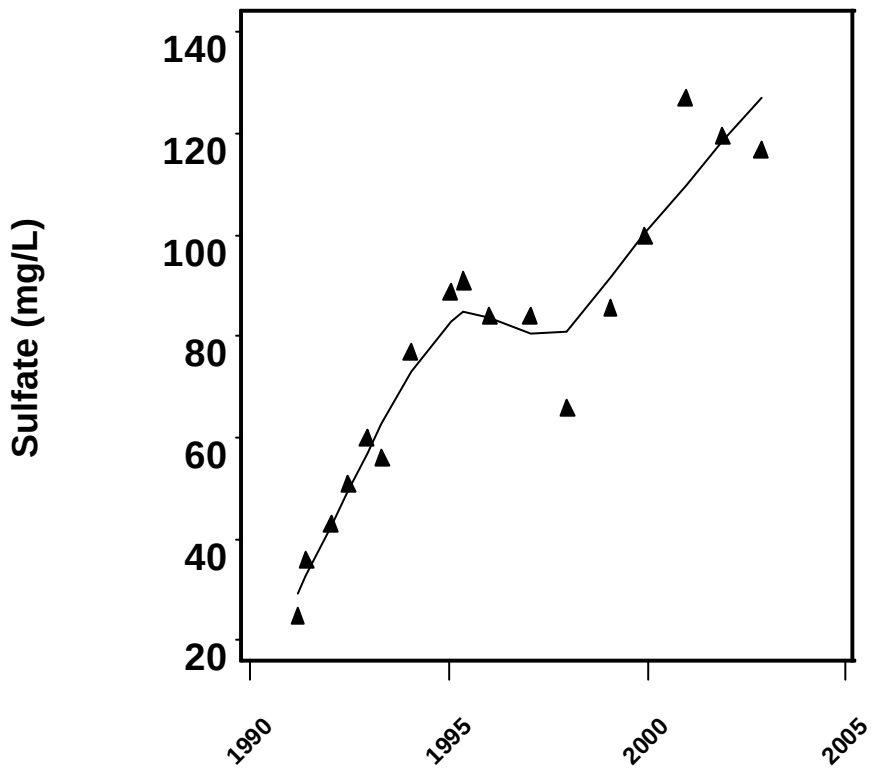
Appendix C-17. Water Quality Scatterplots Fitted with a LOWESS Curve for EUGENE TURNER WELL.



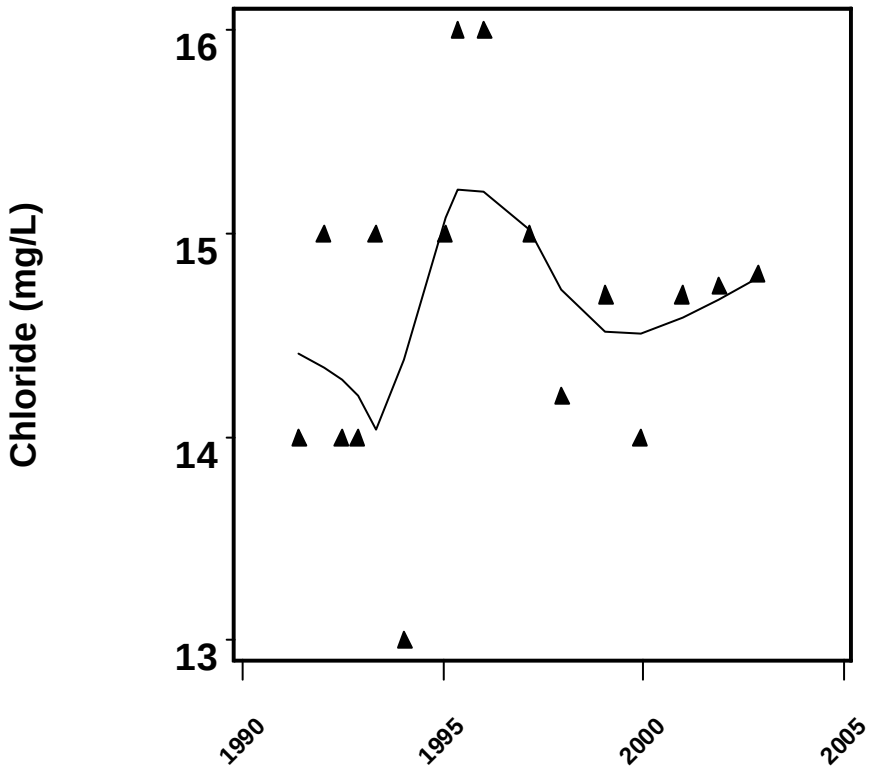


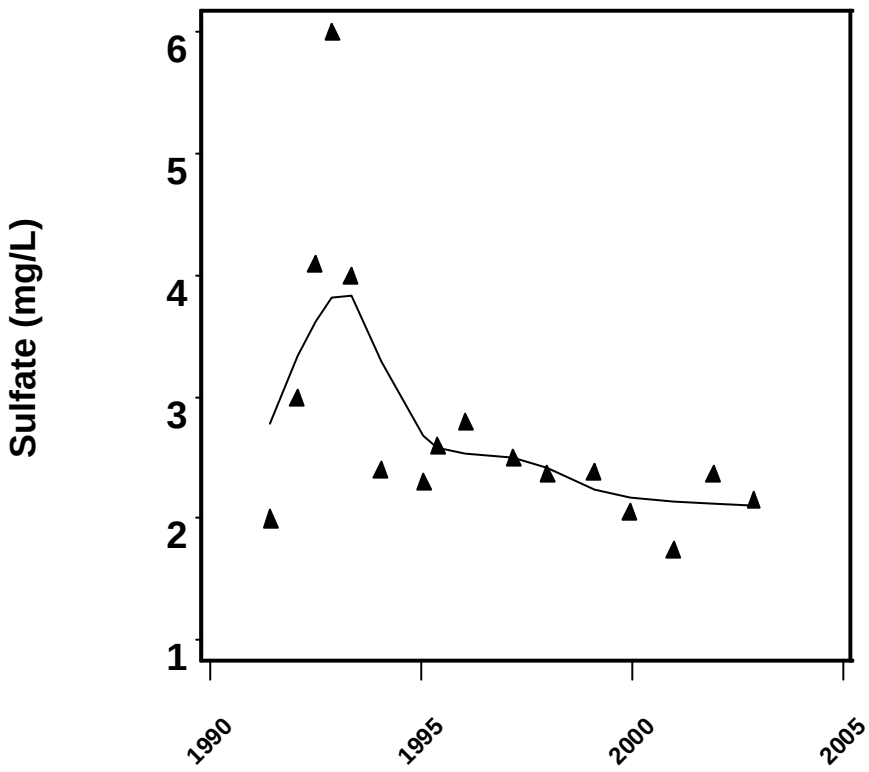
Appendix C-18. Water Quality Scatterplots Fitted with a LOWESS Curve for FALKNER FARMS #1.



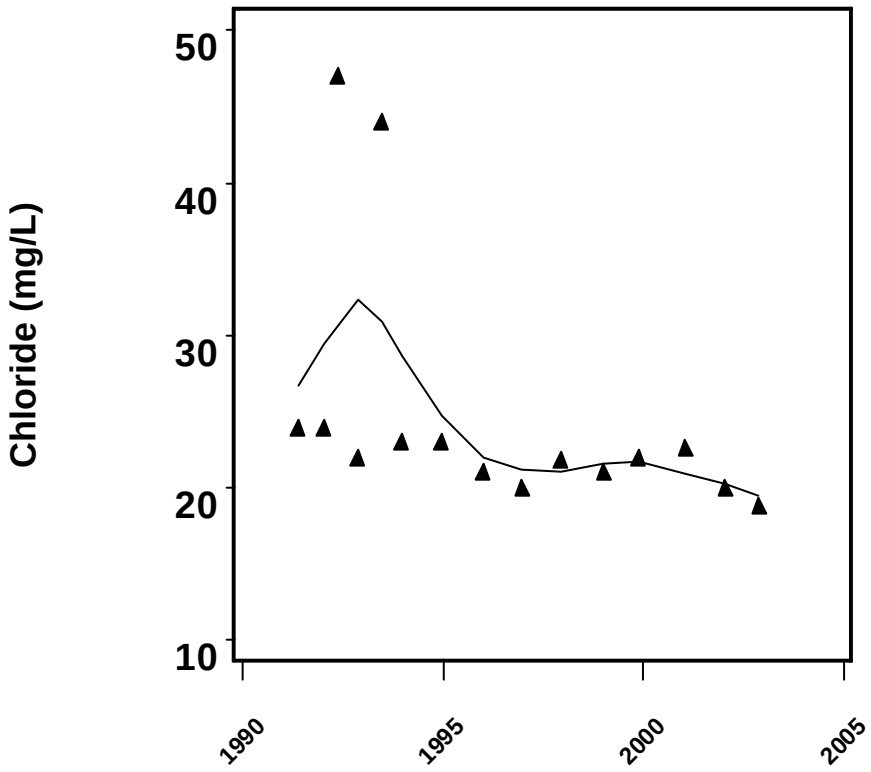


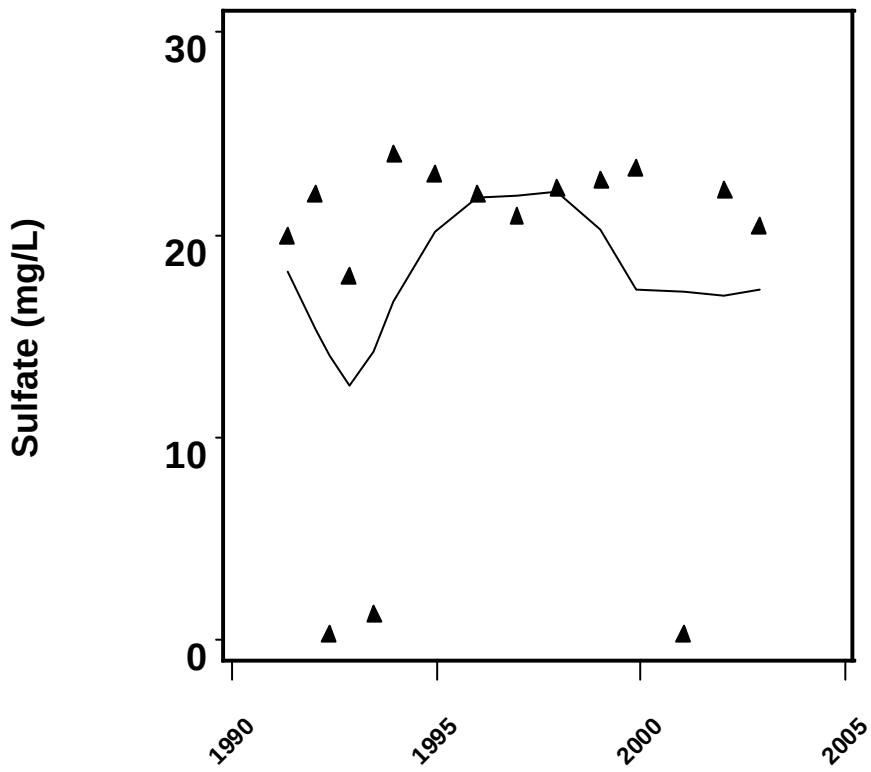
Appendix C-19. Water Quality Scatterplots Fitted with a LOWESS Curve for FL POWER CORP #2.



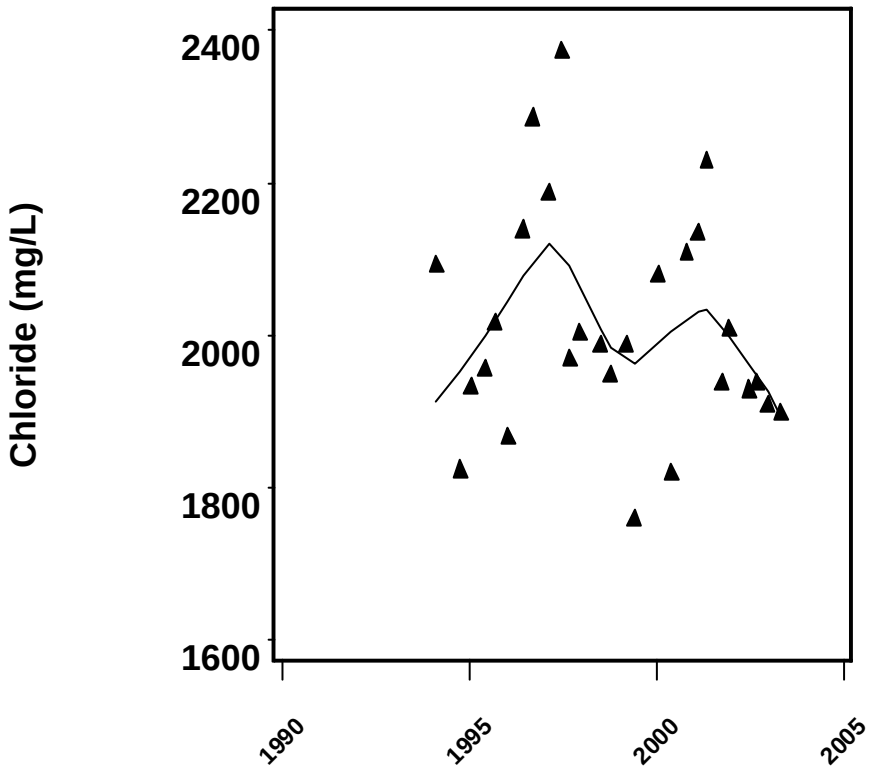


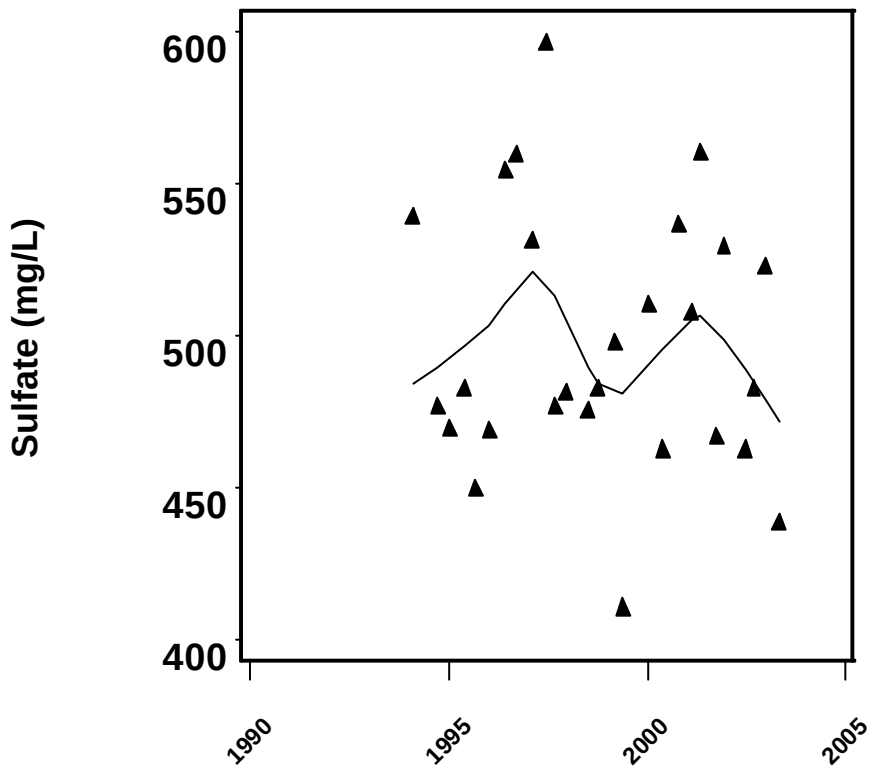
Appendix C-20. Water Quality Scatterplots Fitted with a LOWESS Curve for FPC WELL 3 NEAR CRYSTAL RIVER.



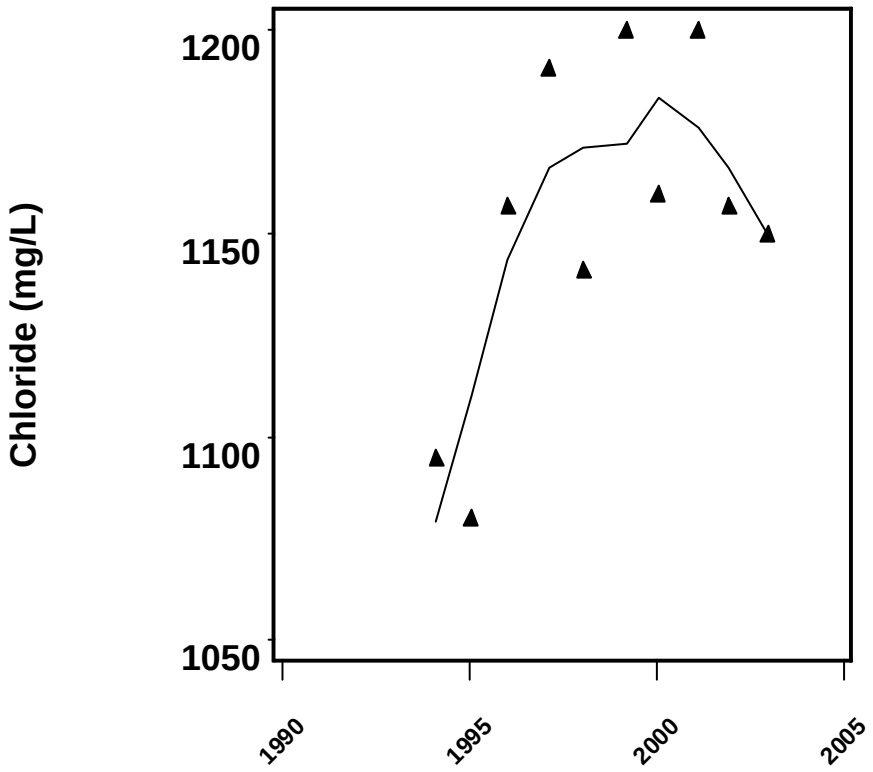


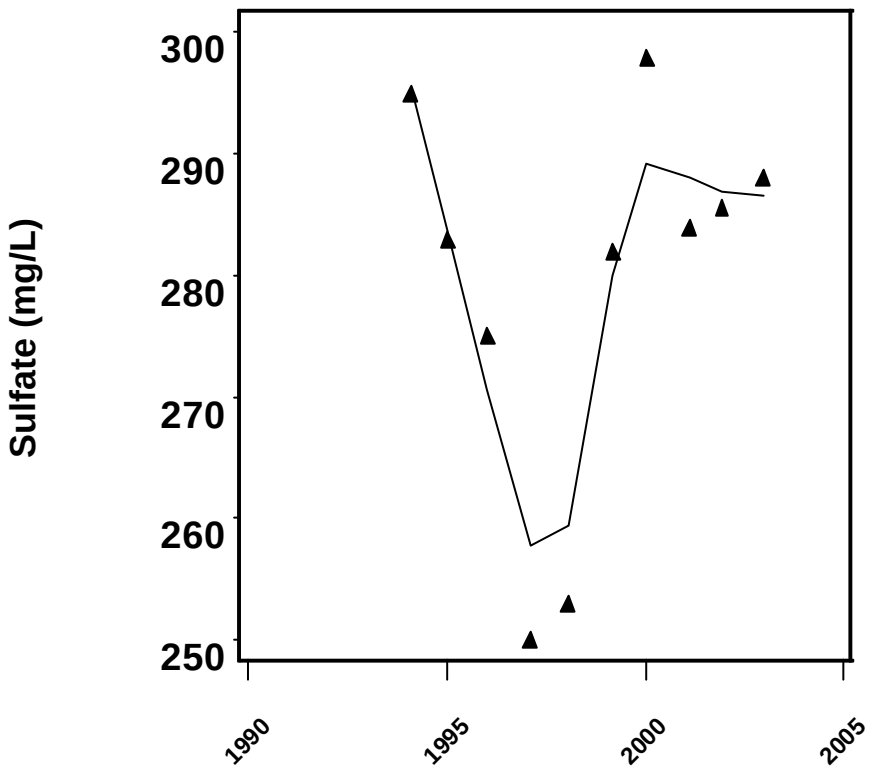
Appendix C-21. Water Quality Scatterplots Fitted with a LOWESS Curve for HERNANDO BEACH SUPPLY.



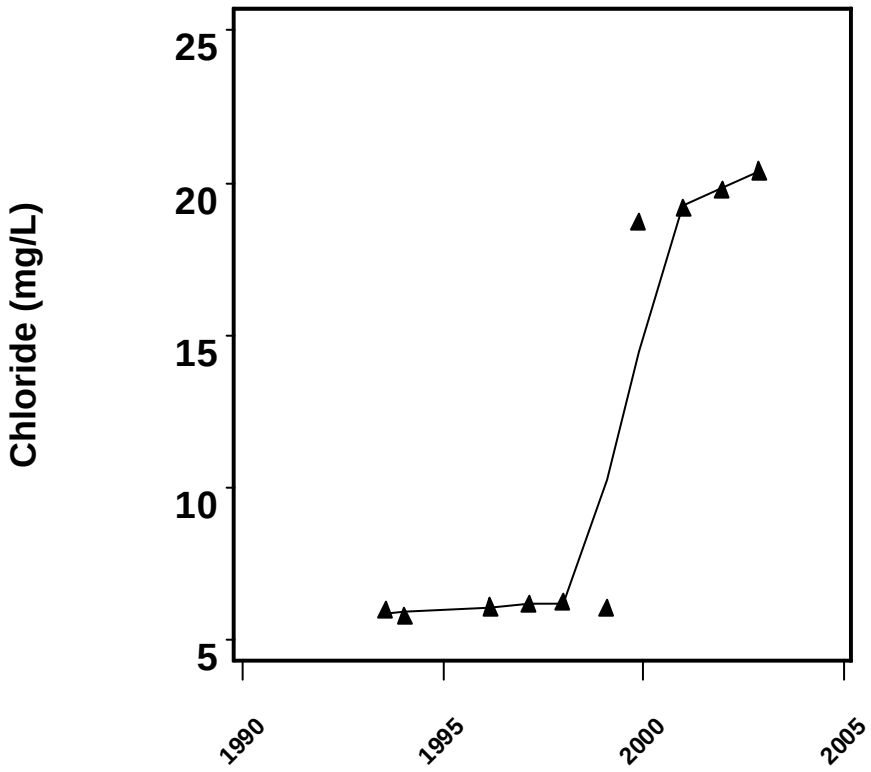


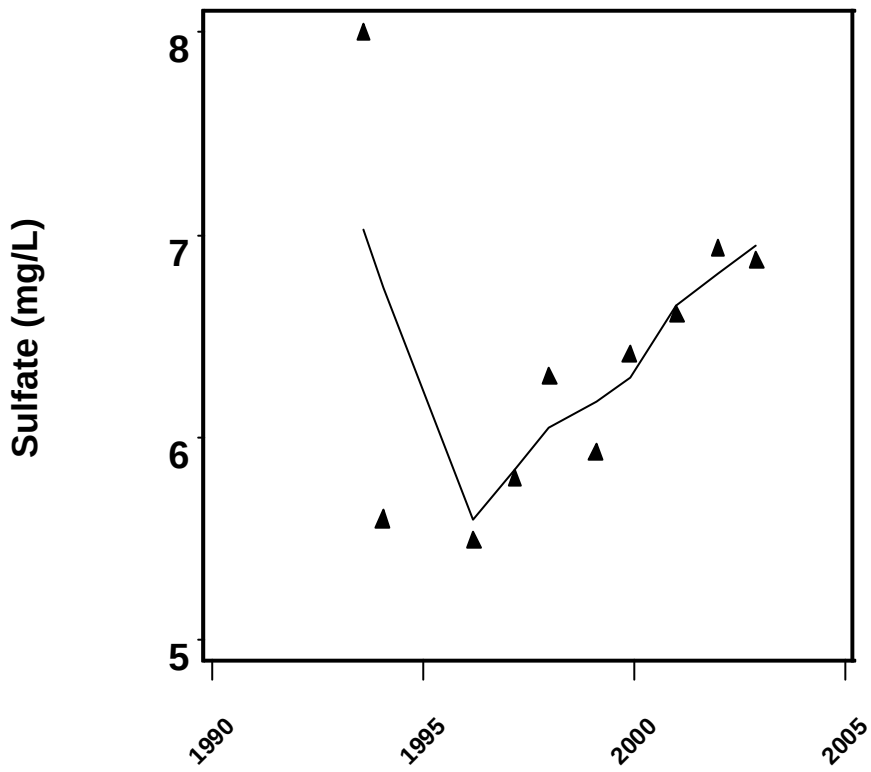
Appendix C-22. Water Quality Scatterplots Fitted with a LOWESS Curve for HILSBOROUGH CO. ASR DMW-1.



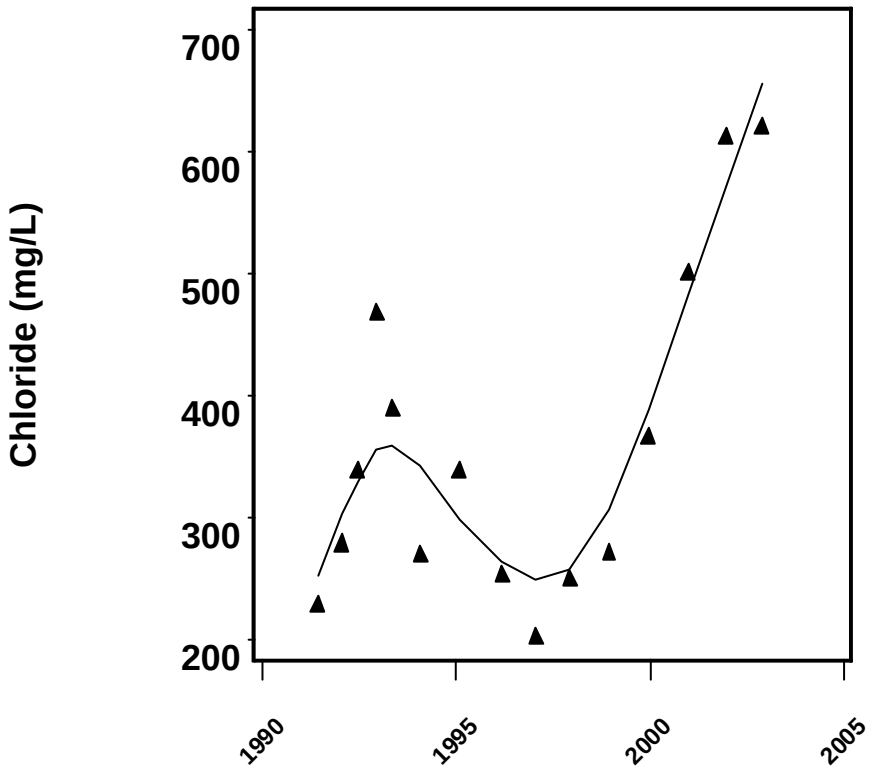


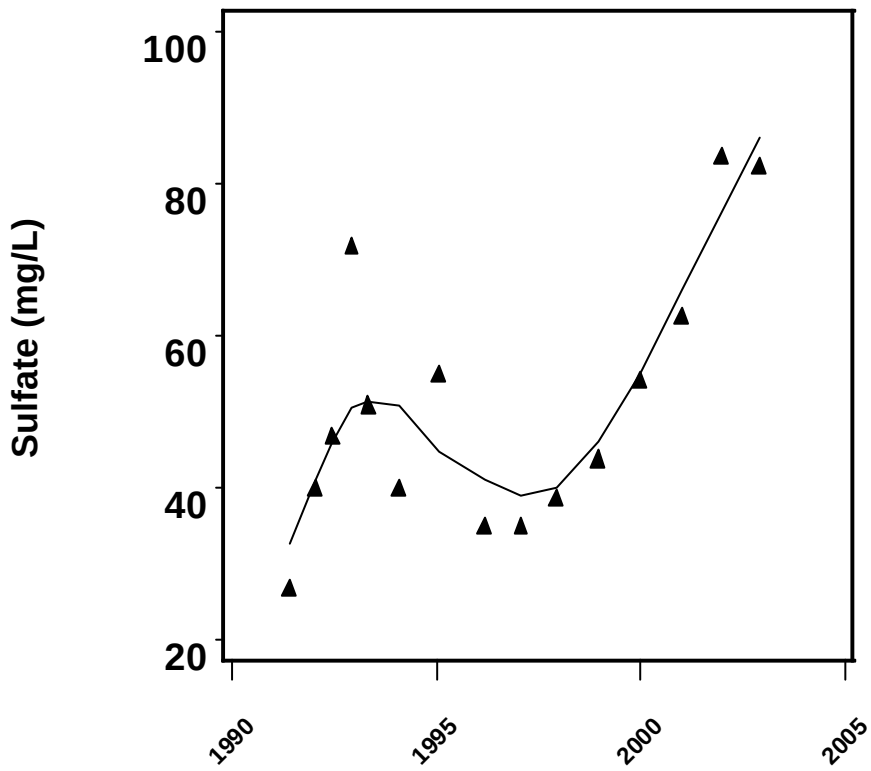
Appendix C-23. Water Quality Scatterplots Fitted with a LOWESS Curve for HILLSBOROUGH CO. ASR SZMW-1.



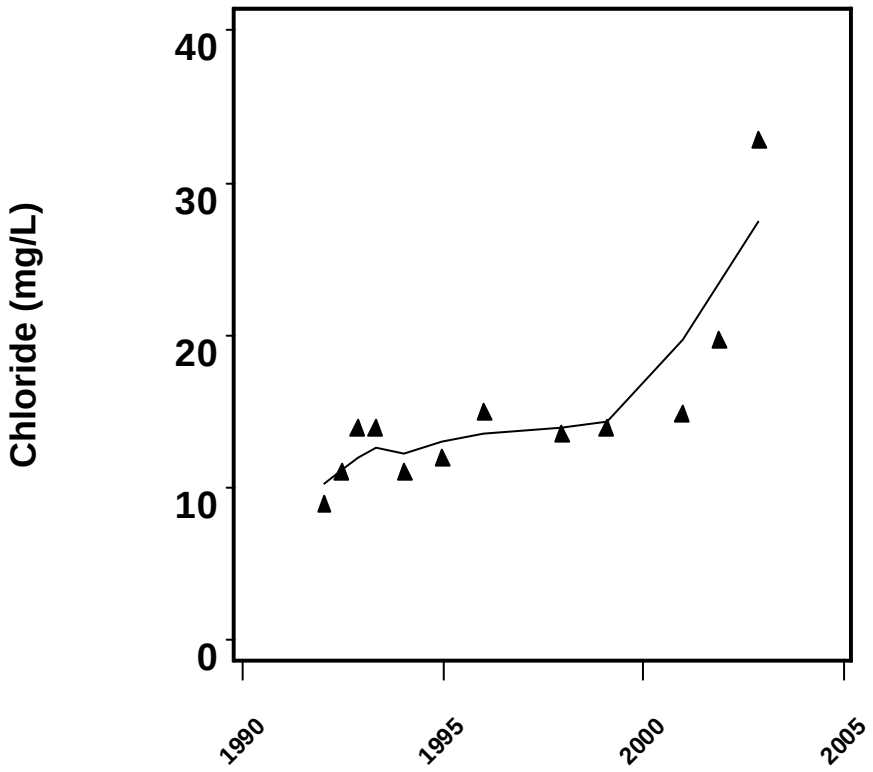


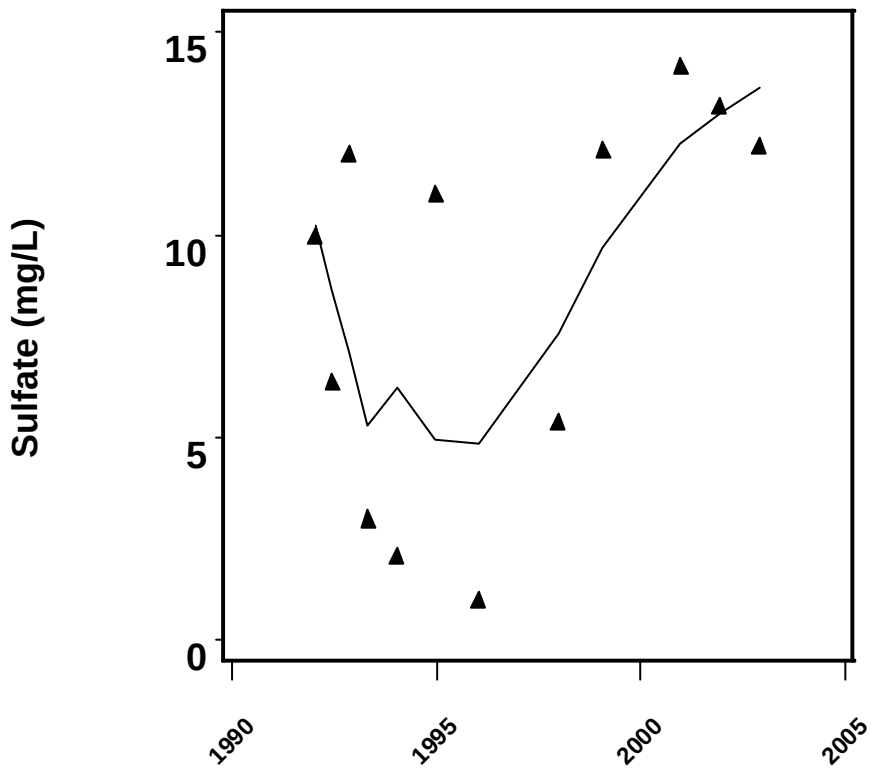
Appendix C-24. Water Quality Scatterplots Fitted with a LOWESS Curve for HOMO SWD BRADSHAW 2.



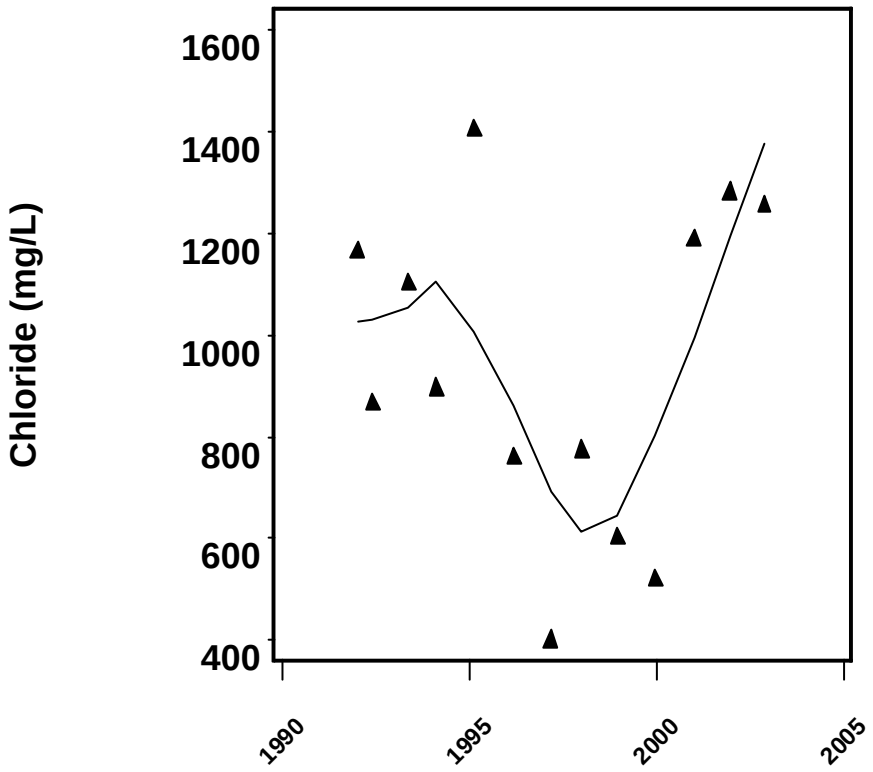


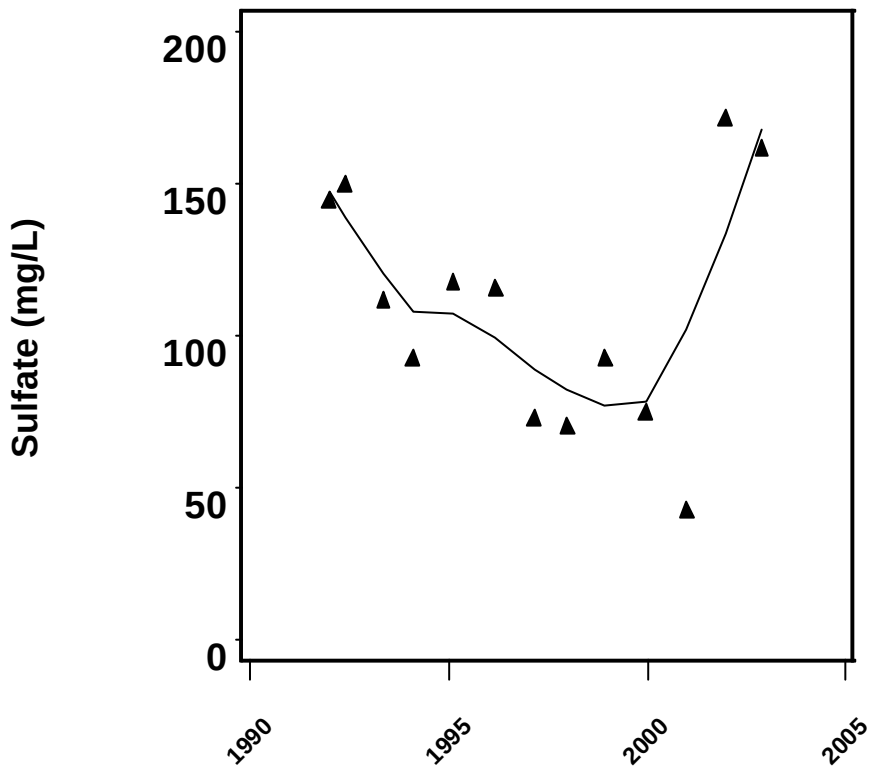
Appendix C-25. Water Quality Scatterplots Fitted with a LOWESS Curve for HOMOSASSA WELL 3.



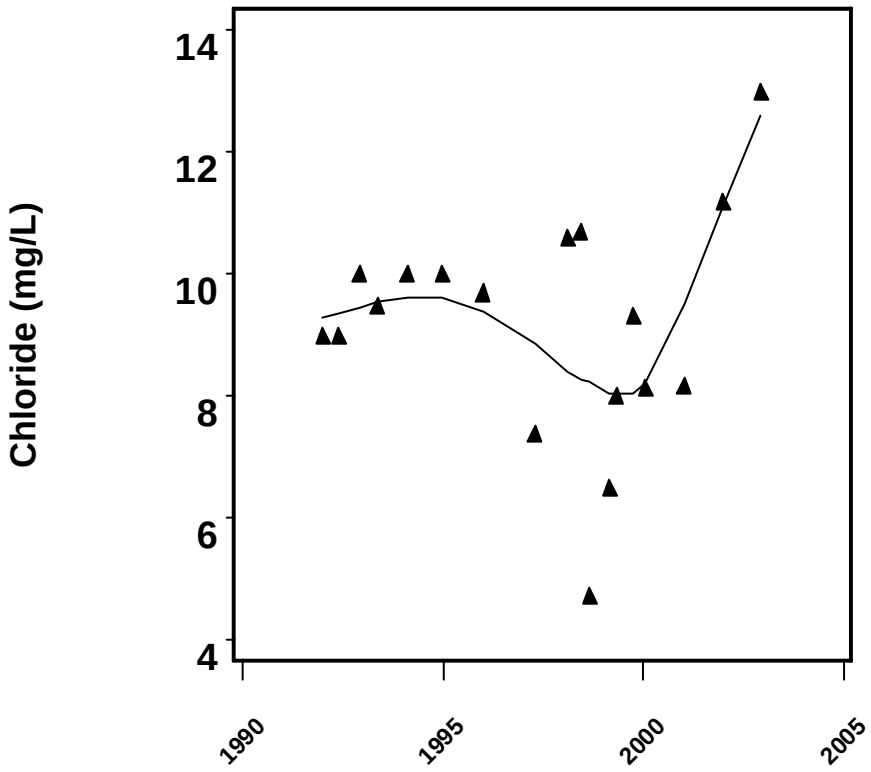


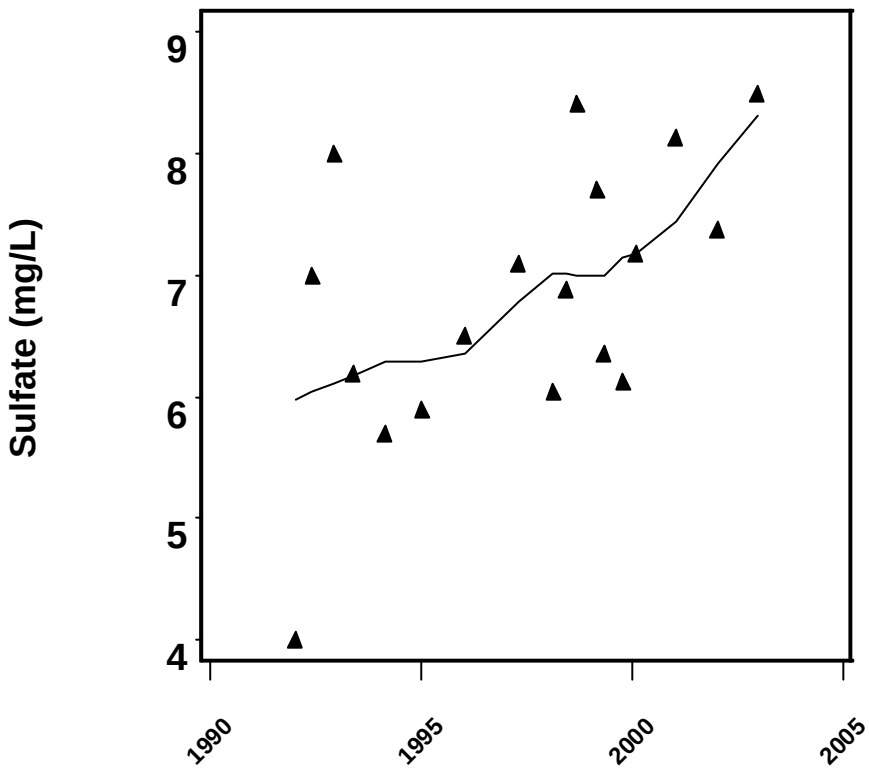
Appendix C-26. Water Quality Scatterplots Fitted with a LOWESS Curve for HRS 15 COON.



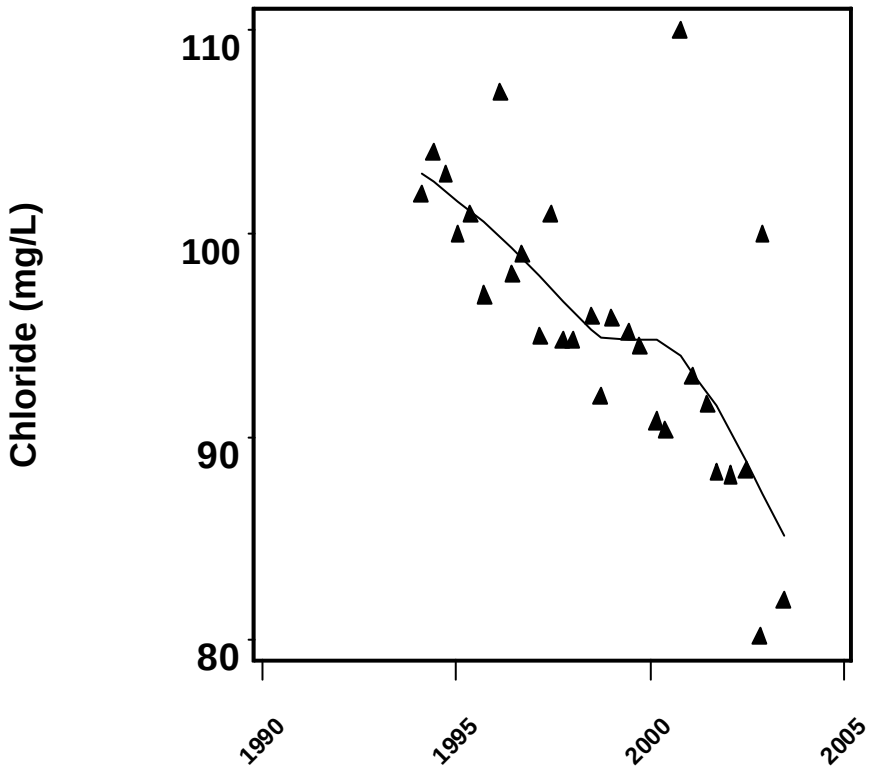


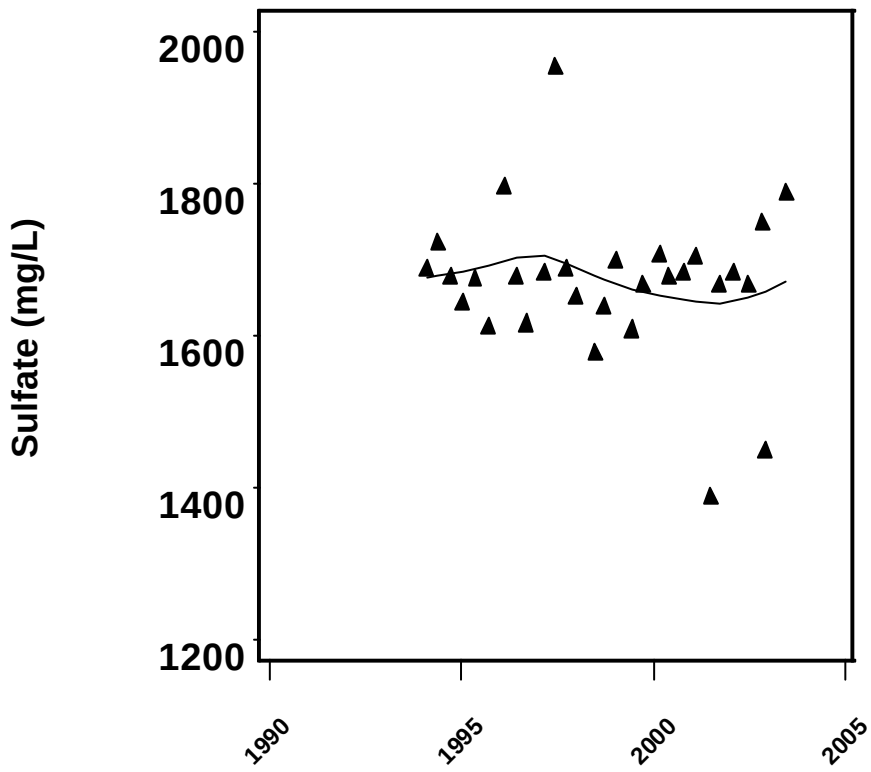
Appendix C-27. Water Quality Scatterplots Fitted with a LOWESS Curve for HRS 19A ZOLINGER.



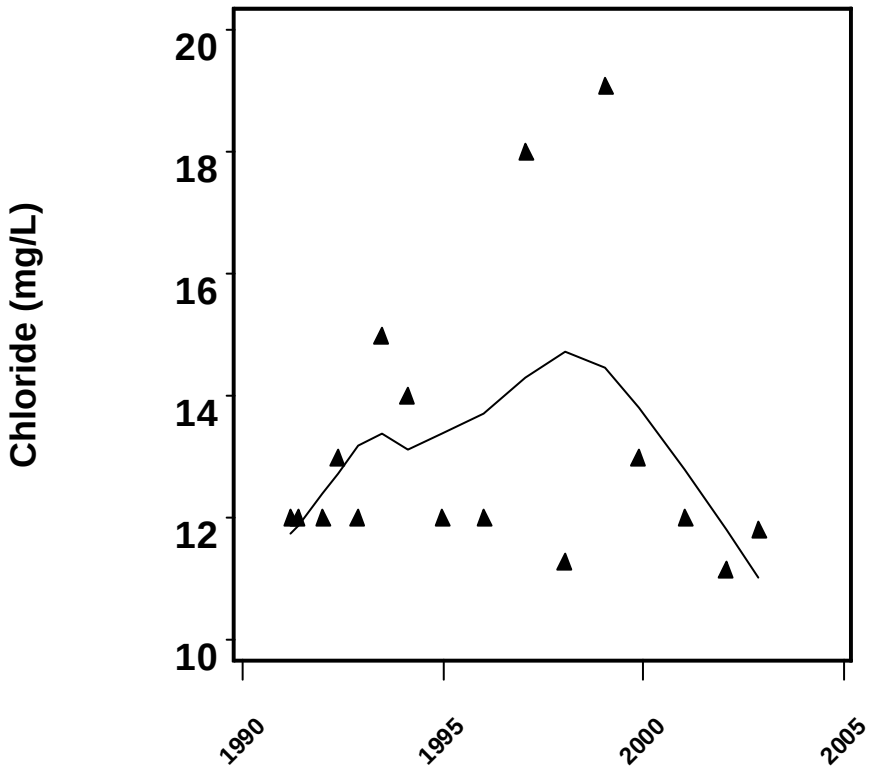


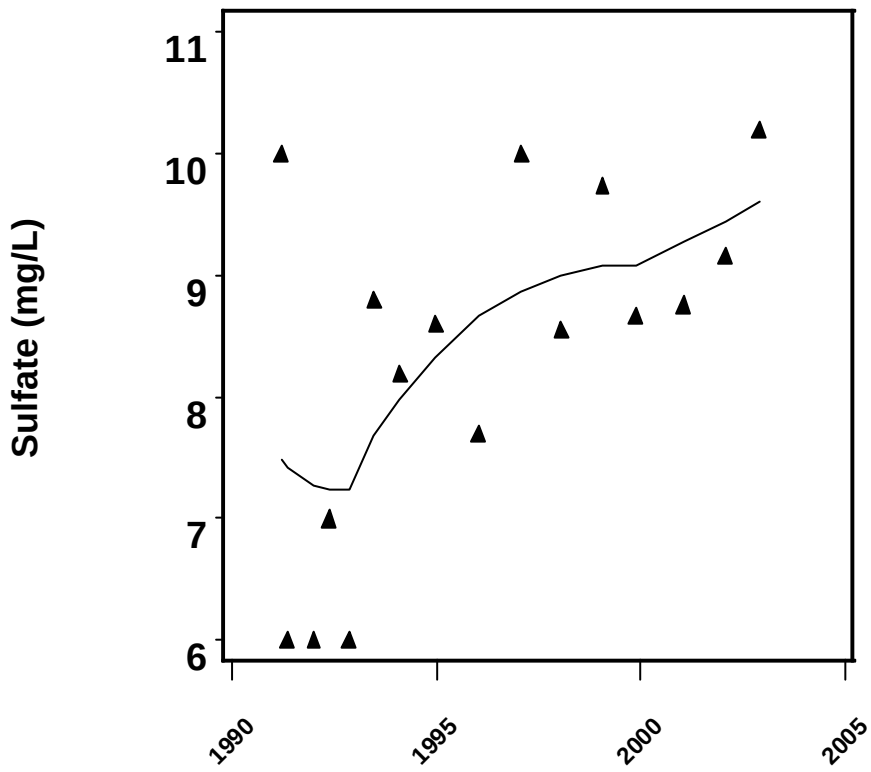
Appendix C-28. Water Quality Scatterplots Fitted with a LOWESS Curve for HRS 54 KOSTER.



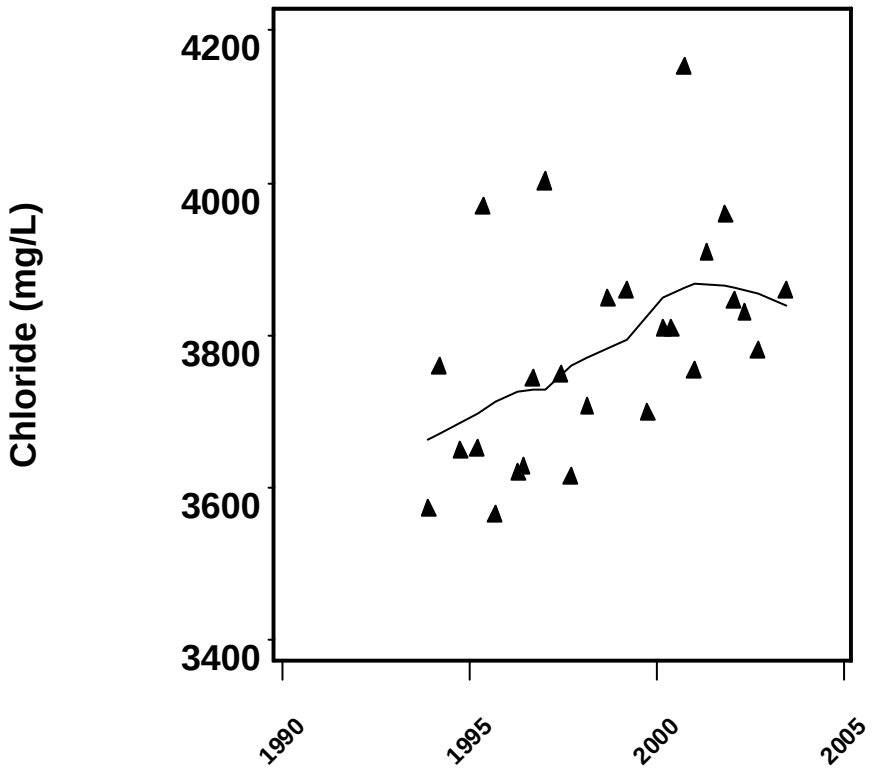


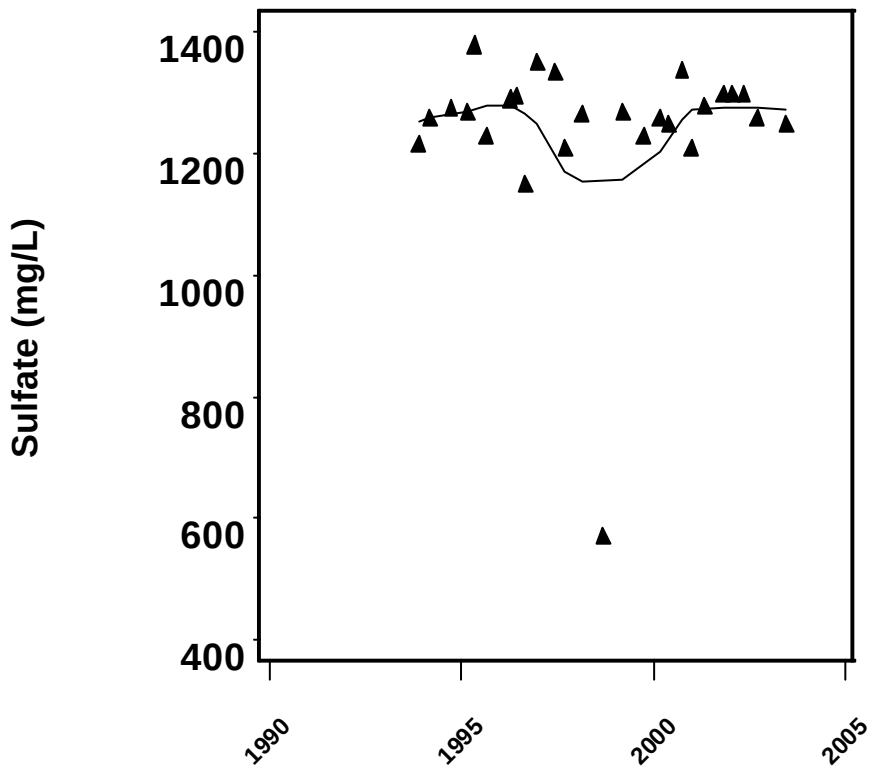
Appendix C-29. Water Quality Scatterplots Fitted with a LOWESS Curve for KNIGHTS TRAIL FLORIDAN.



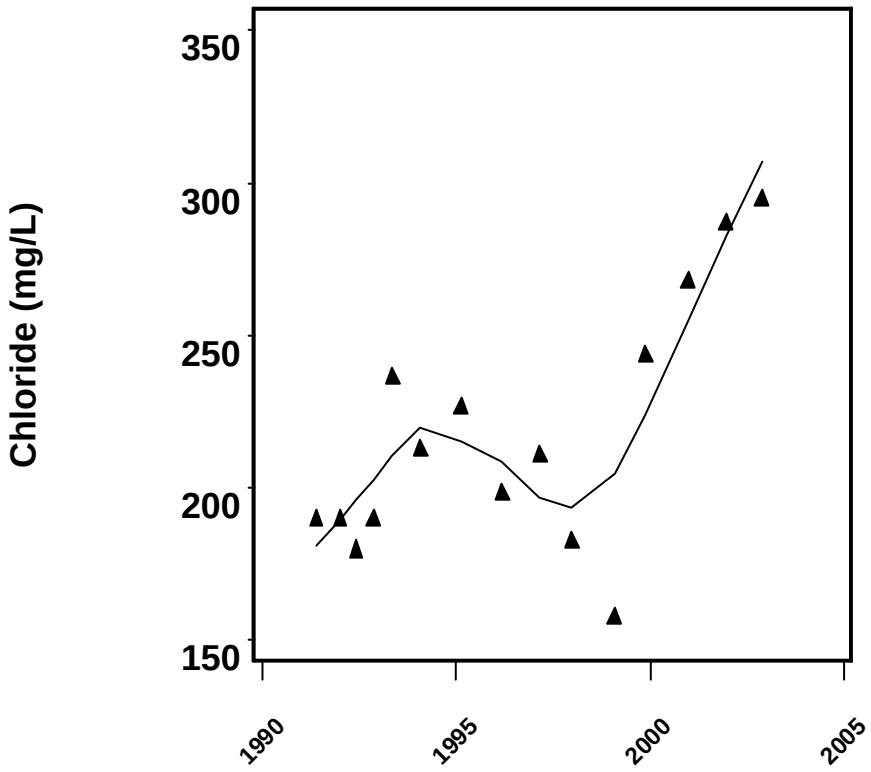


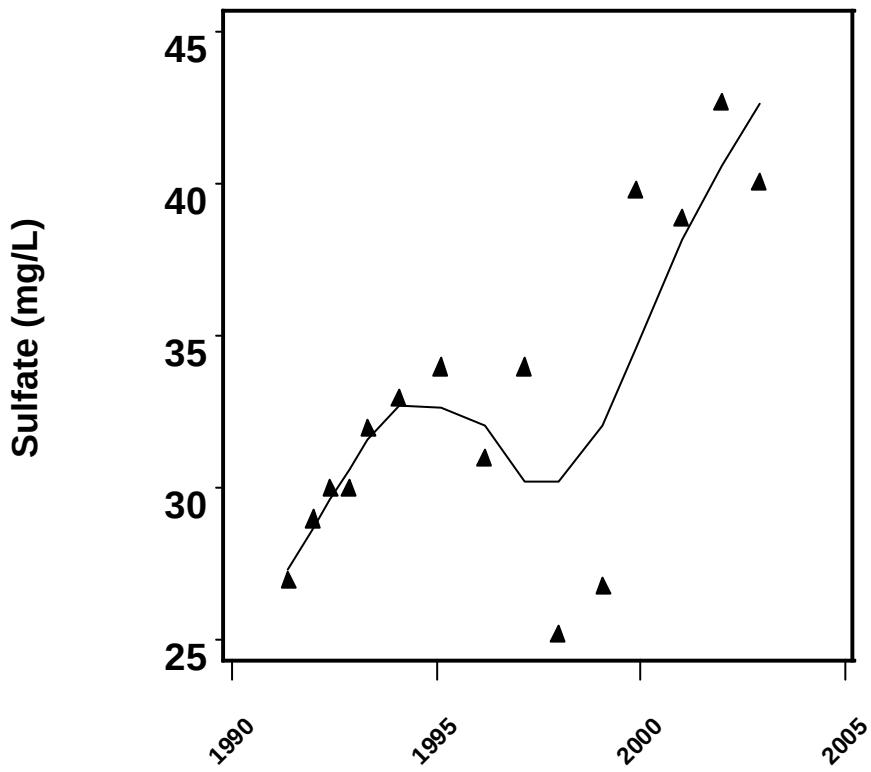
Appendix C-30. Water Quality Scatterplots Fitted with a LOWESS Curve for MAGNOLIA SPRINGS WELL.



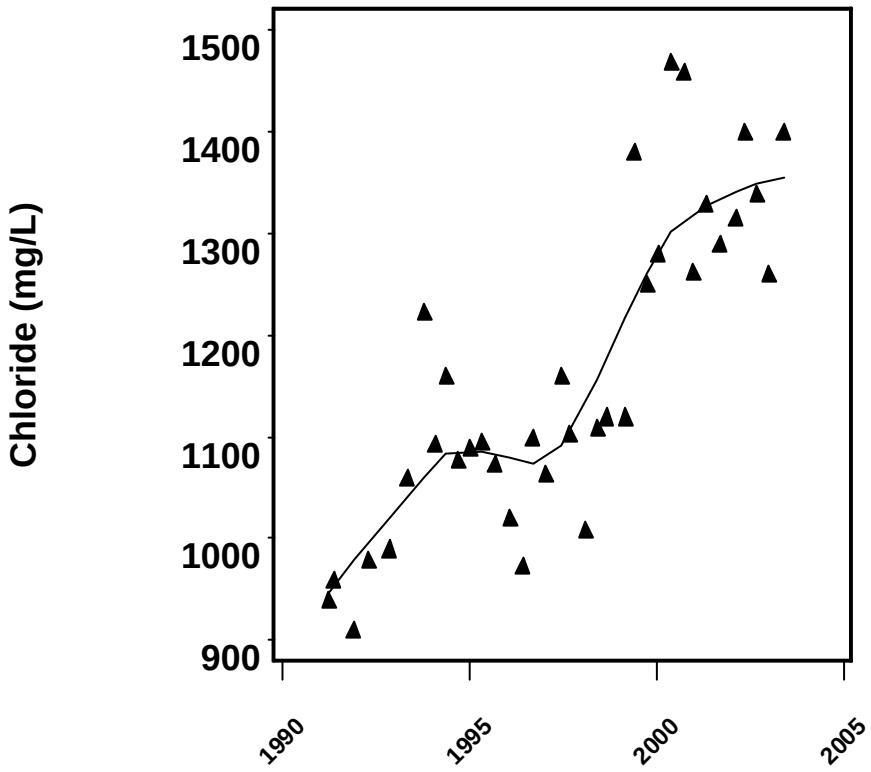


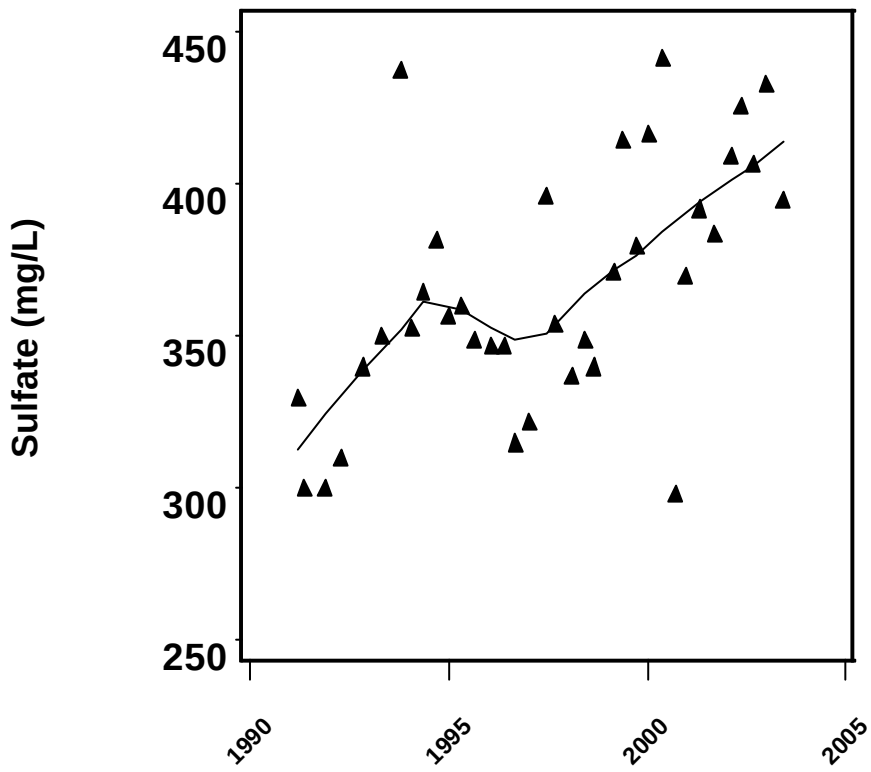
Appendix C-31. Water Quality Scatterplots Fitted with a LOWESS Curve for MANATEE INJECTION WELL.



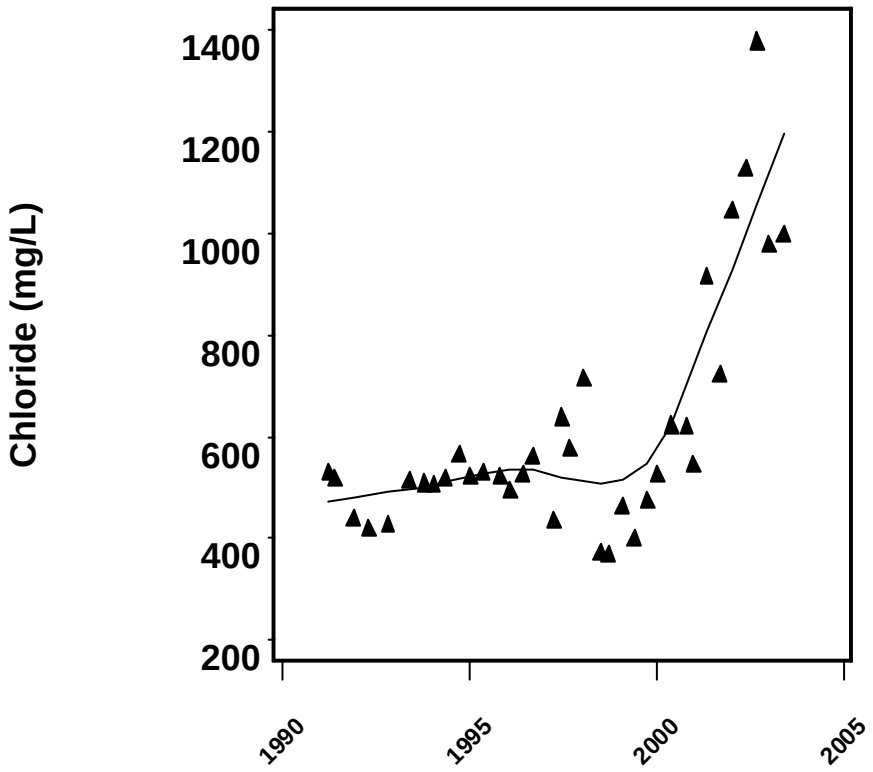


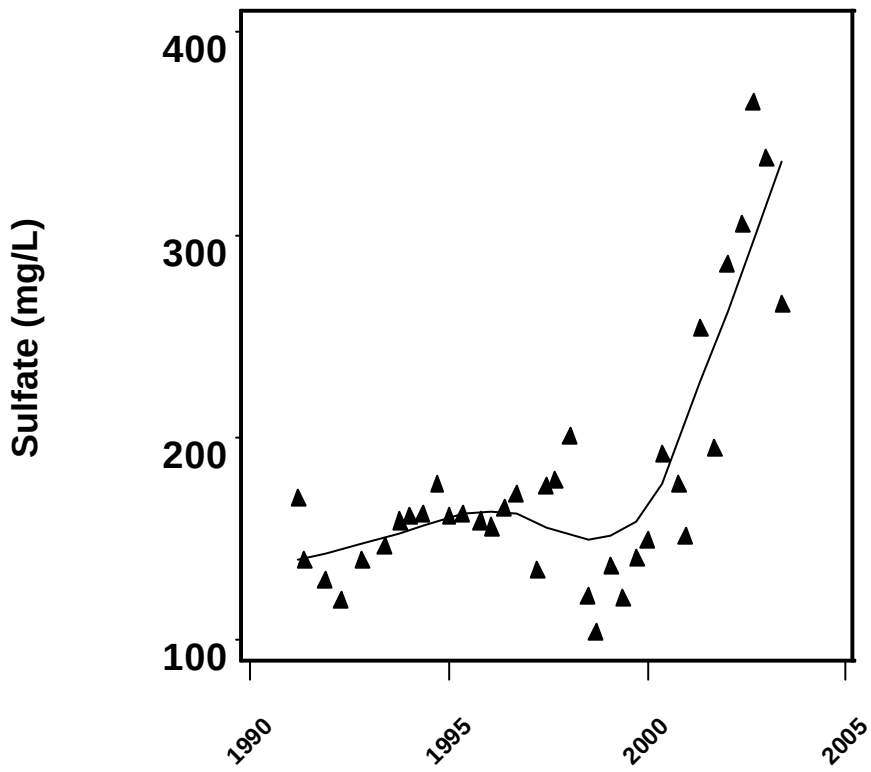
Appendix C-32. Water Quality Scatterplots Fitted with a LOWESS Curve for NORRIS WELL AT HOMOSASSA.



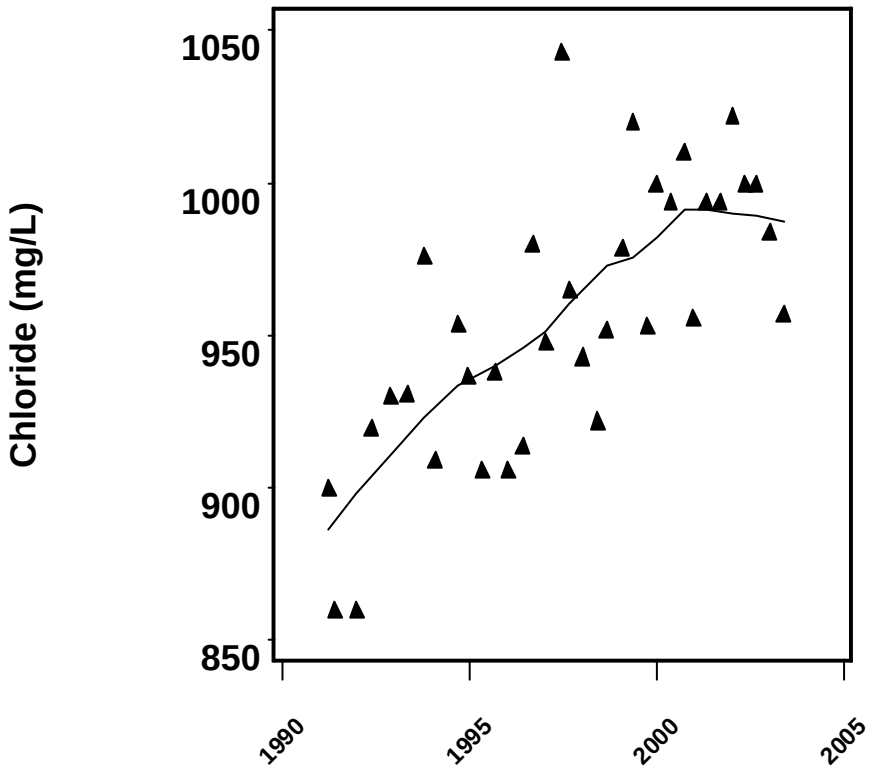


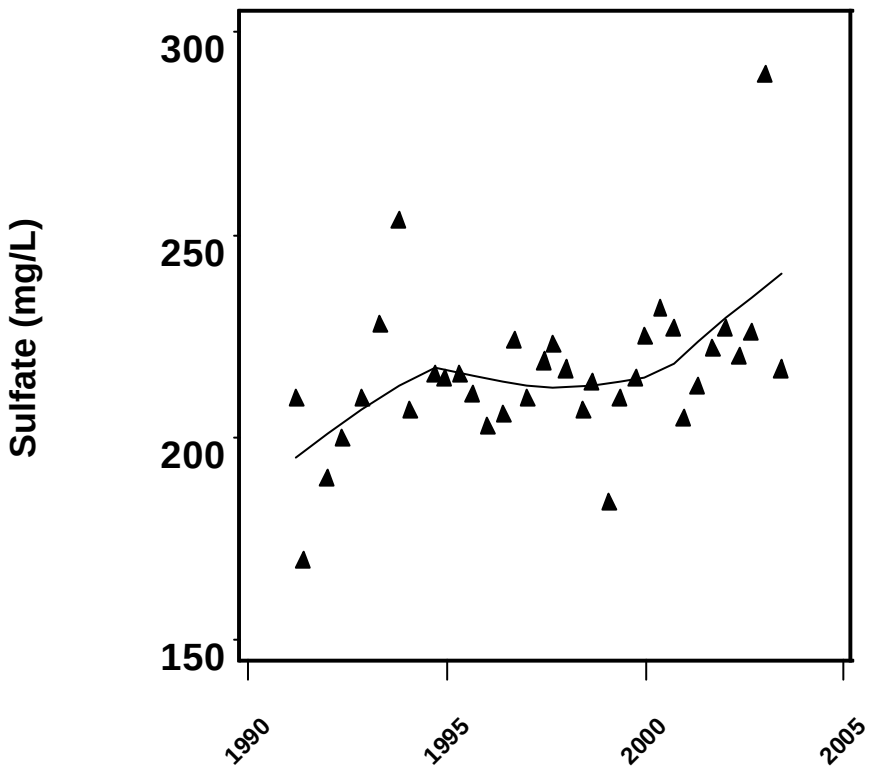
Appendix C-33. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-1D.



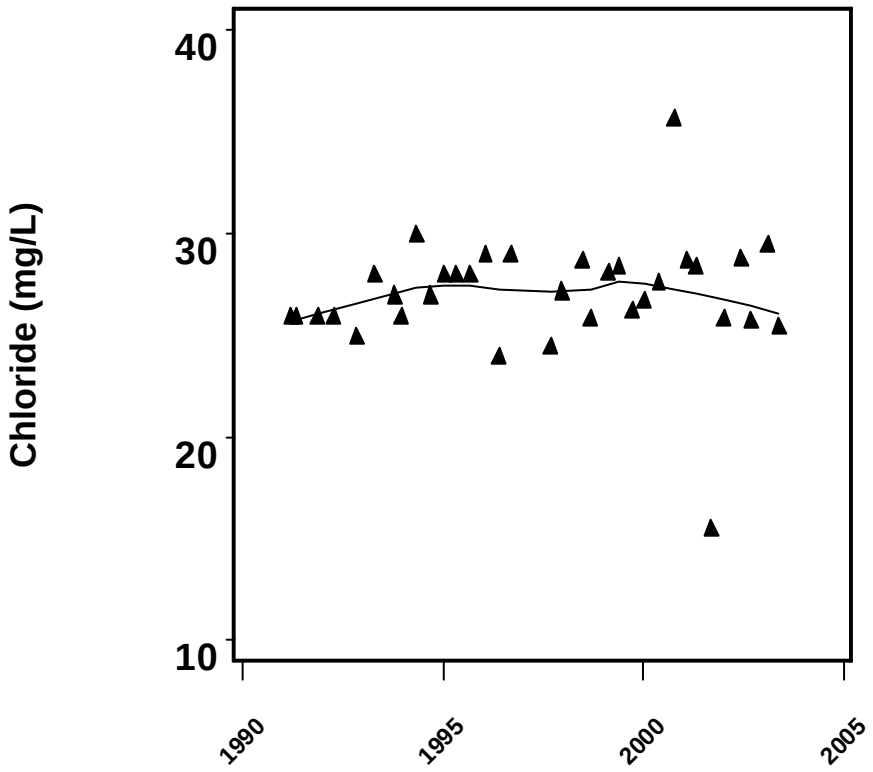


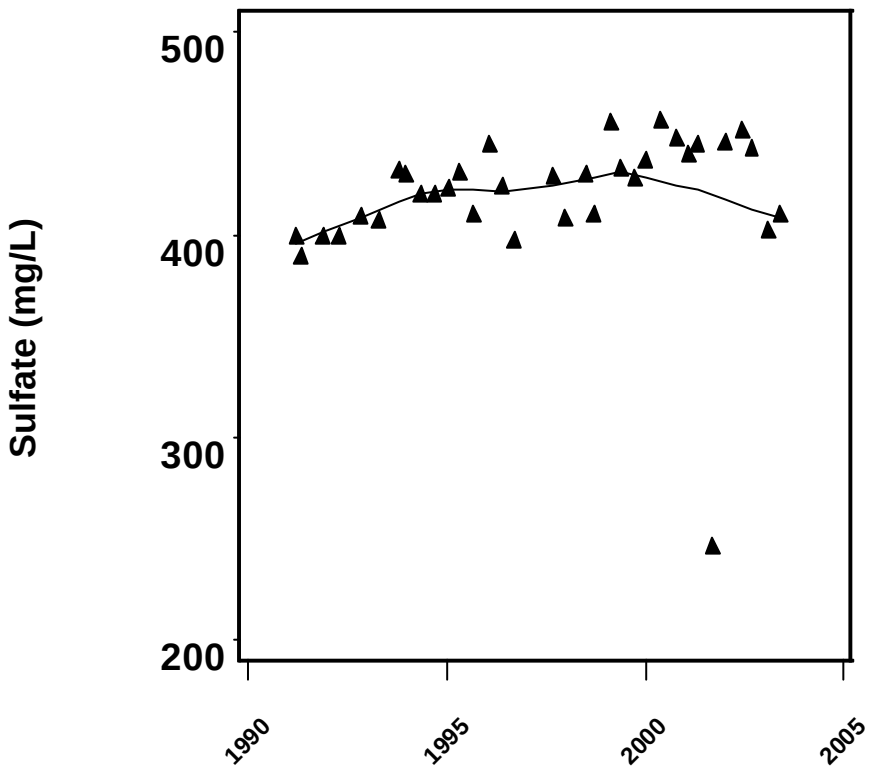
Appendix C-34. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-2D.



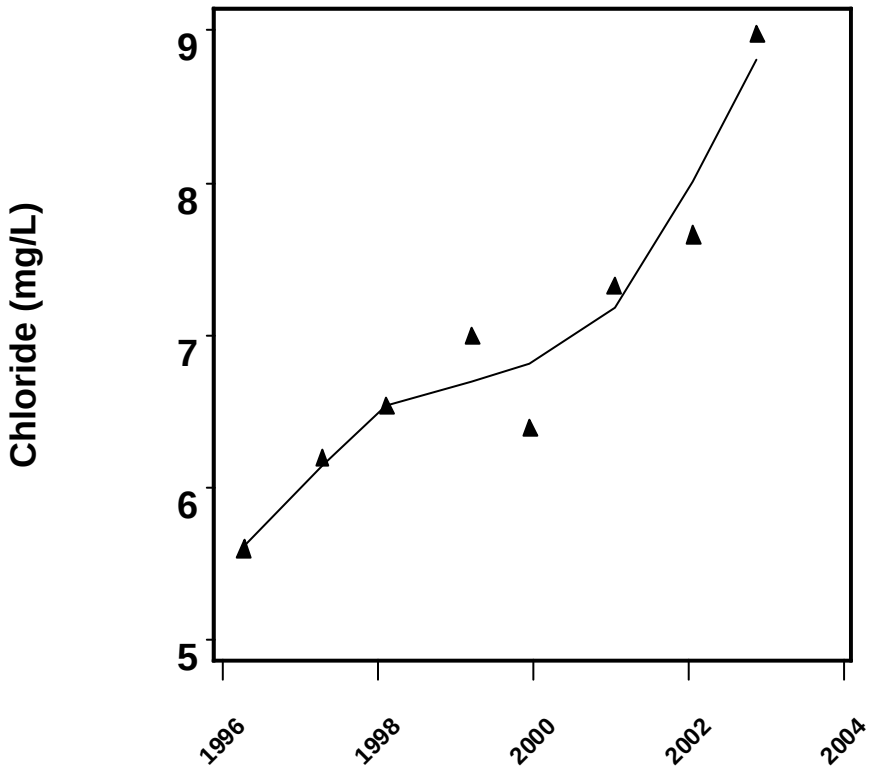


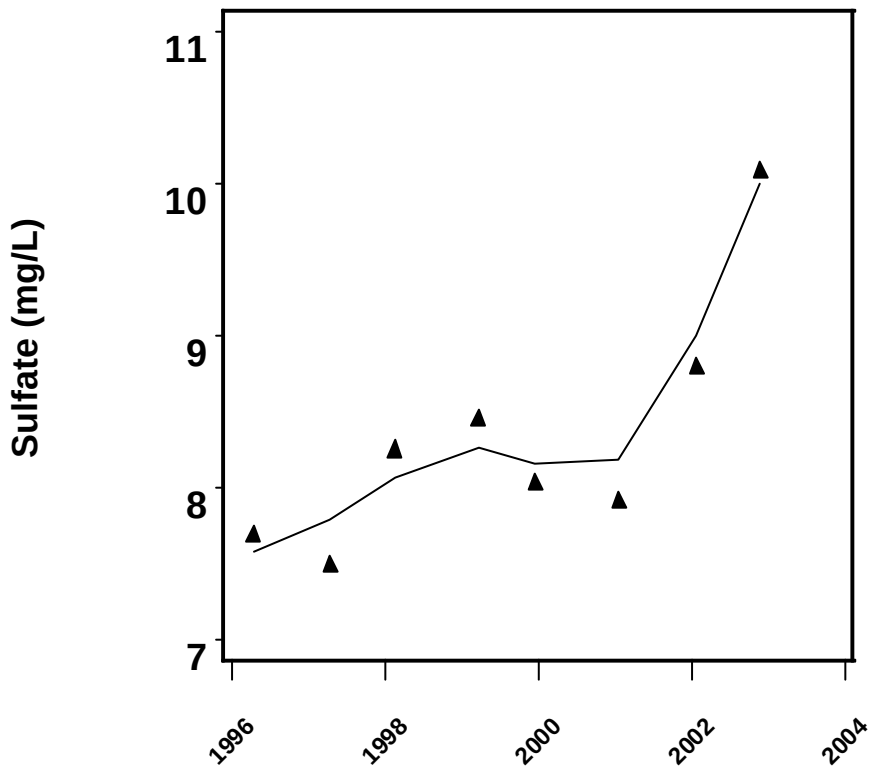
Appendix C-35. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-3D.



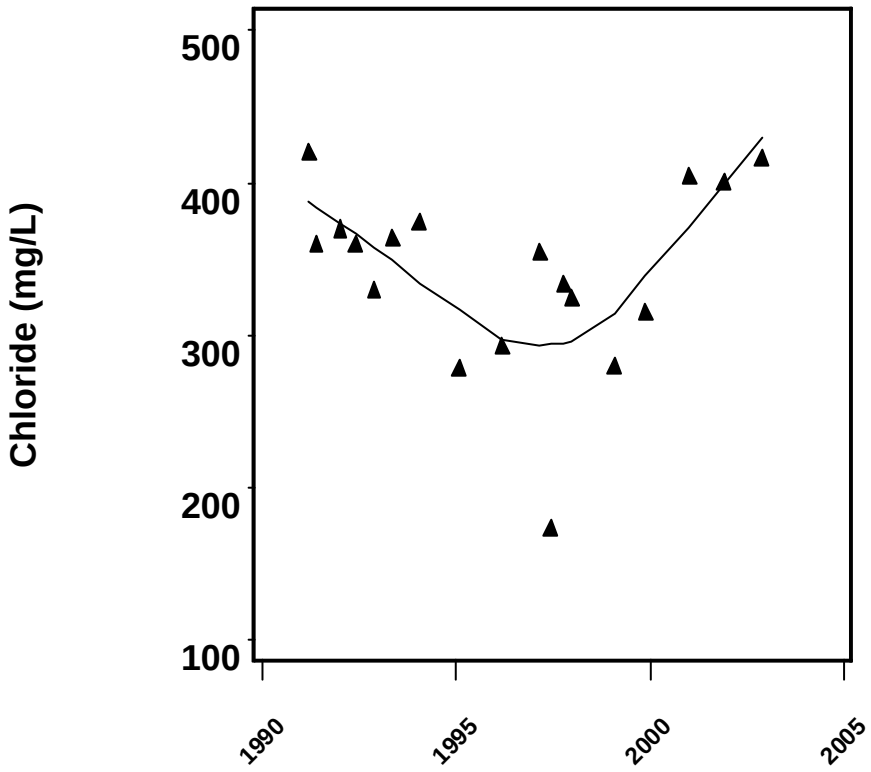


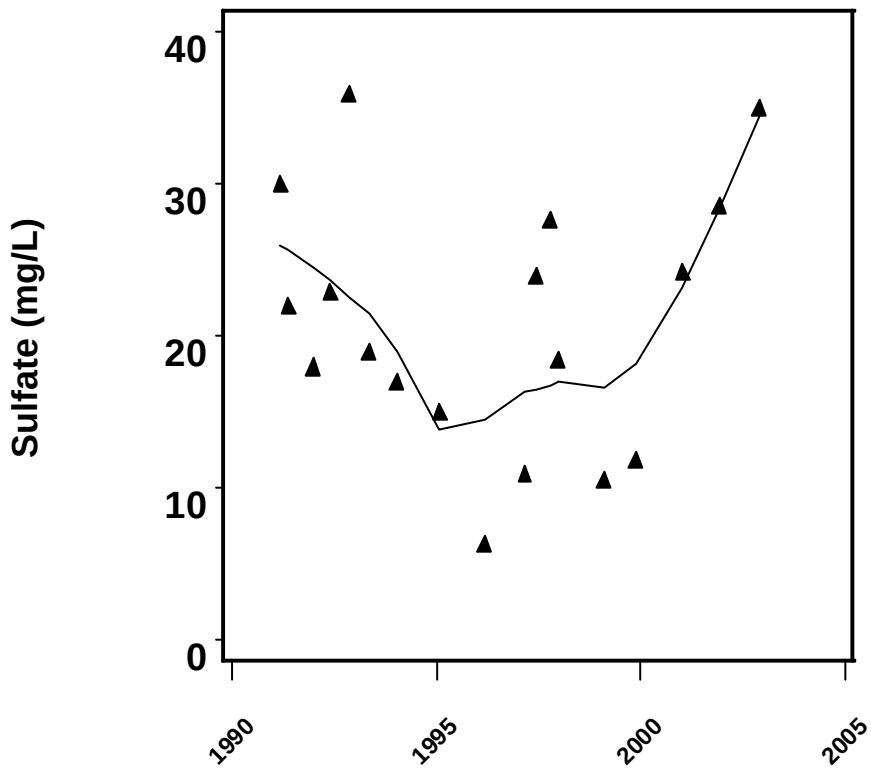
Appendix C-36. Water Quality Scatterplots Fitted with a LOWESS Curve for NWHWRAP-4D.



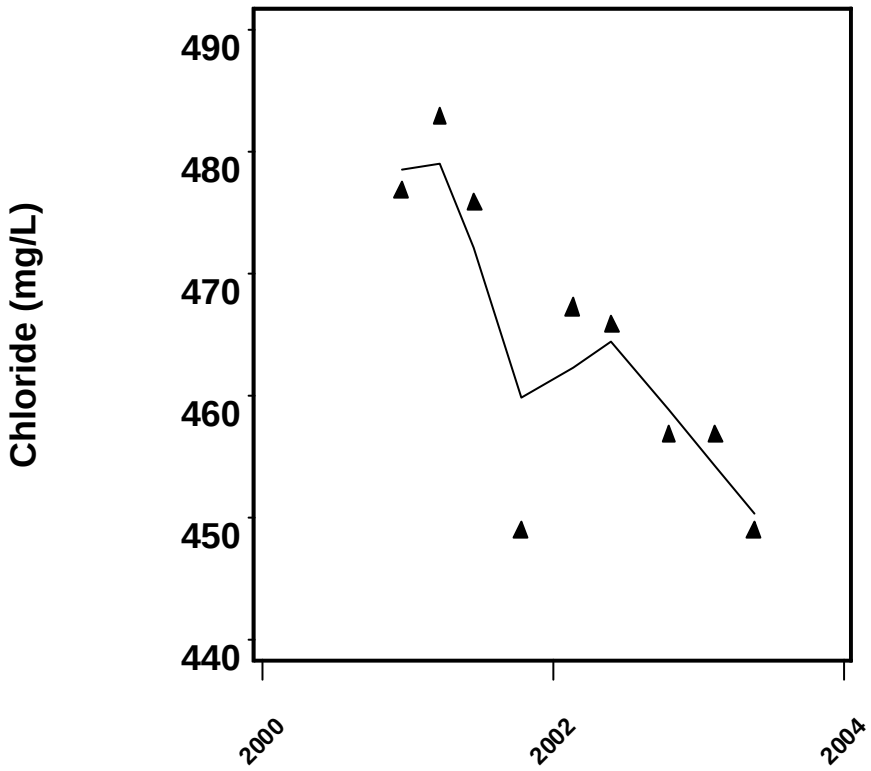


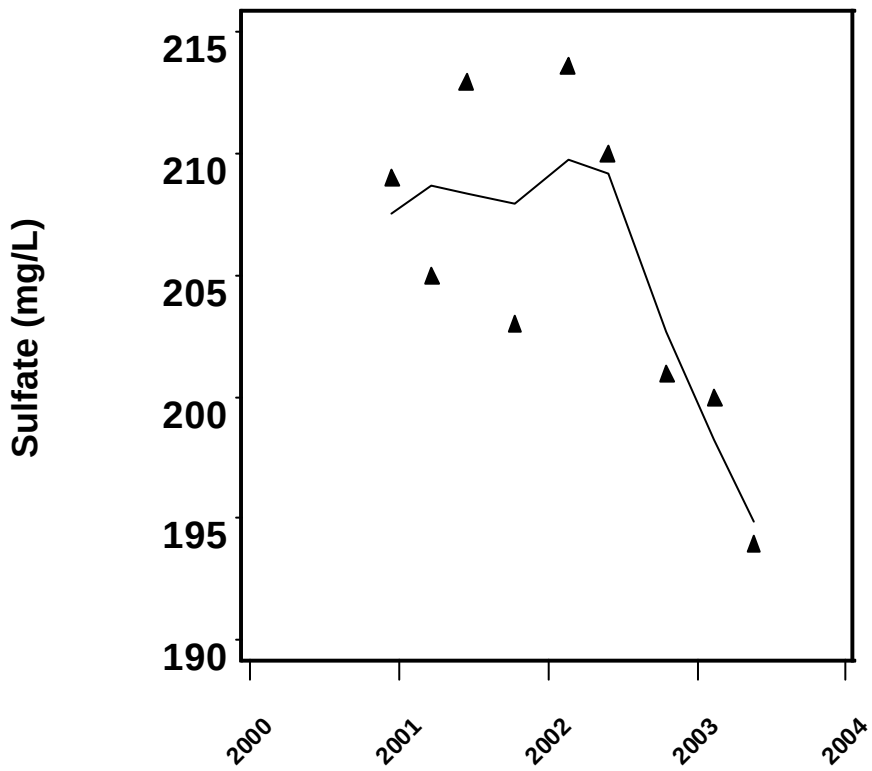
Appendix C-37. Water Quality Scatterplots Fitted with a LOWESS Curve for OAKHILL GOLF COURSE 1.



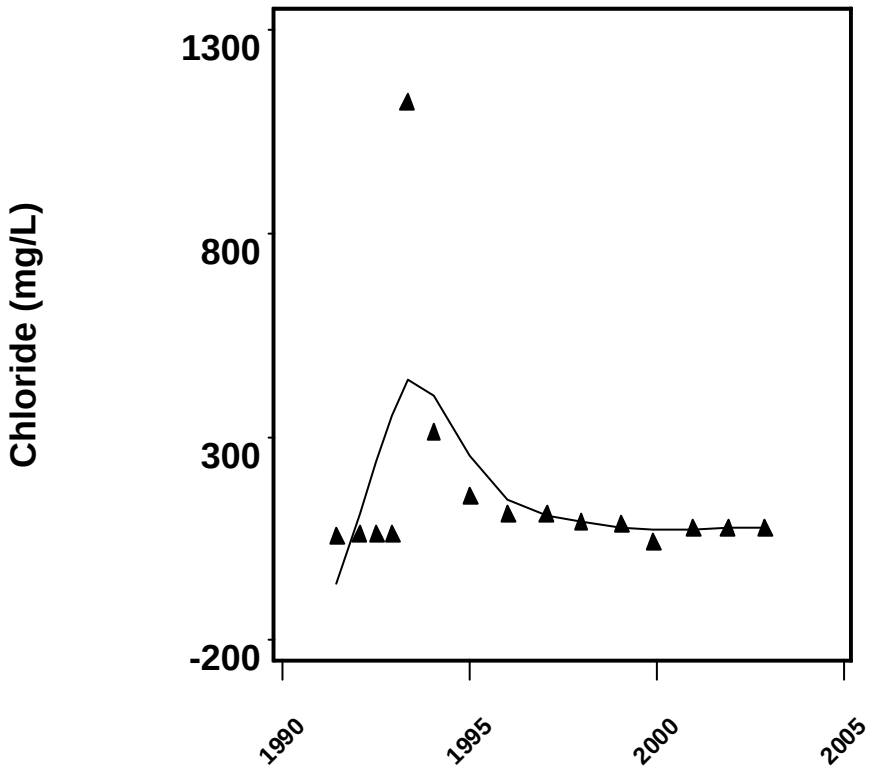


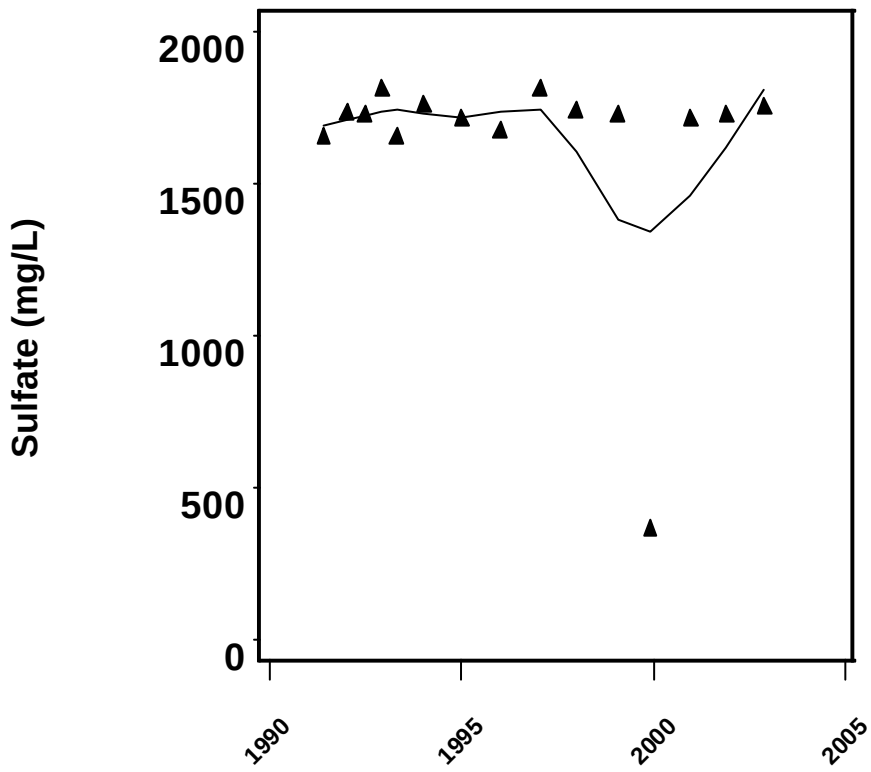
Appendix C-38. Water Quality Scatterplots Fitted with a LOWESS Curve for OZELLO WELL 4 NEAR CRYSTAL RIVER.



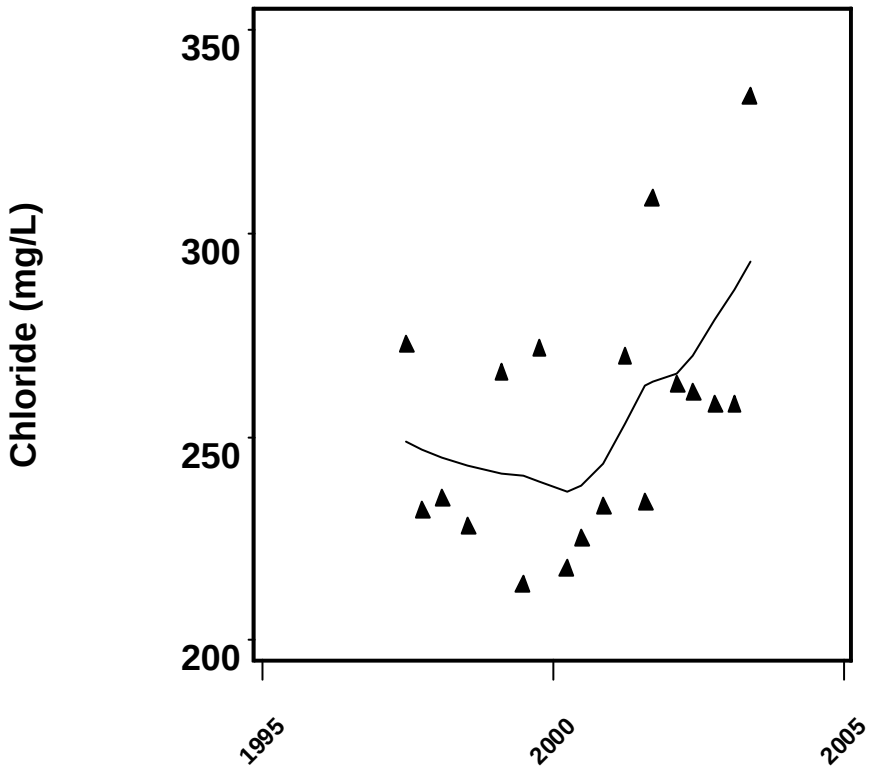


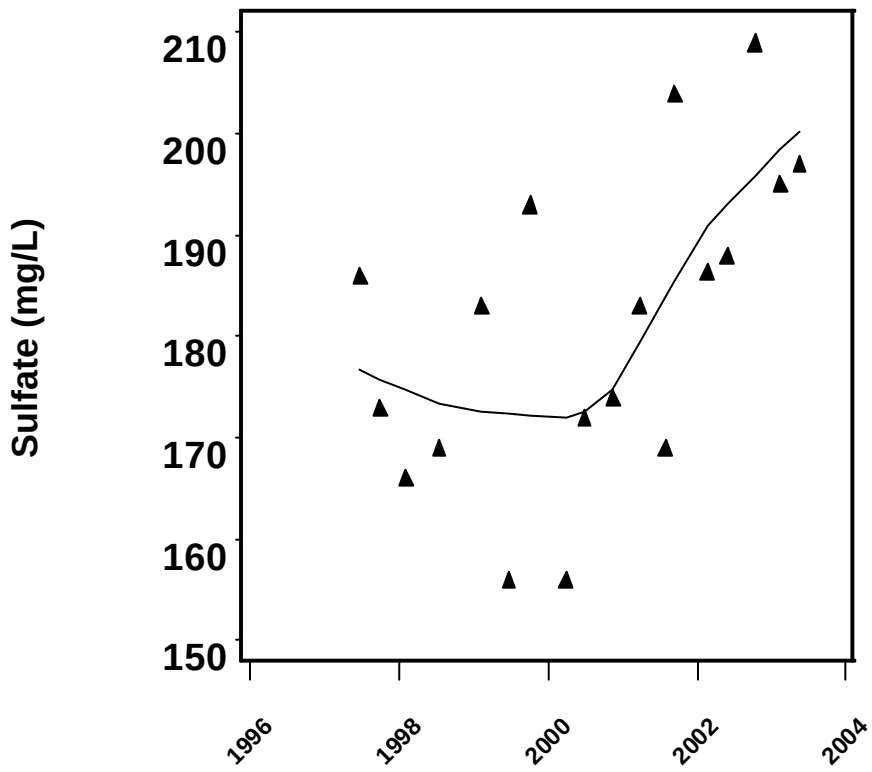
Appendix C-39. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 12 DEEP UP FLORIDAN.



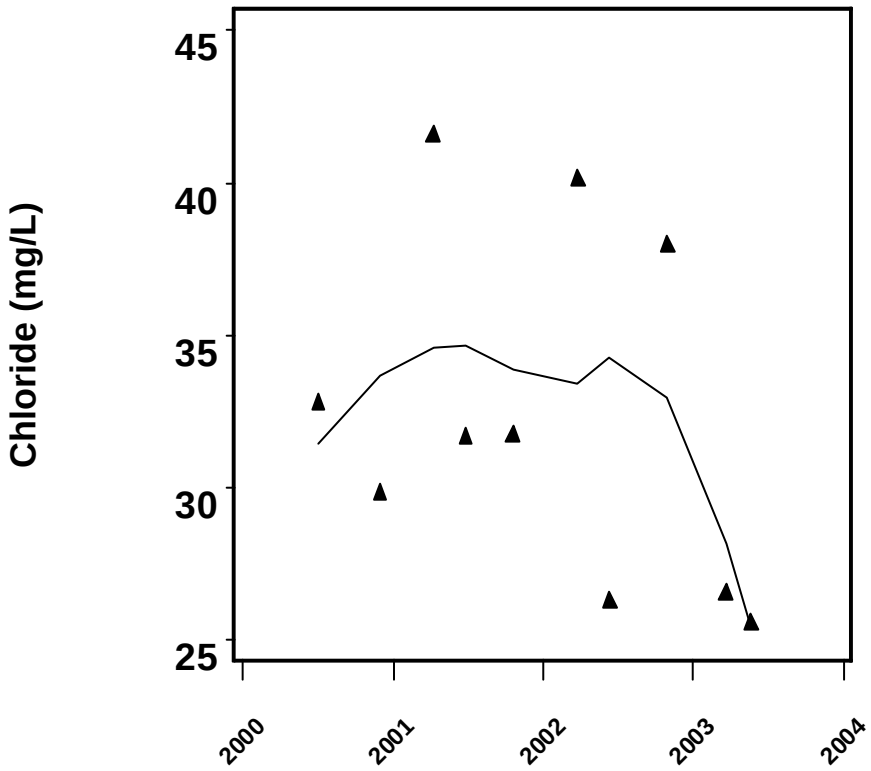


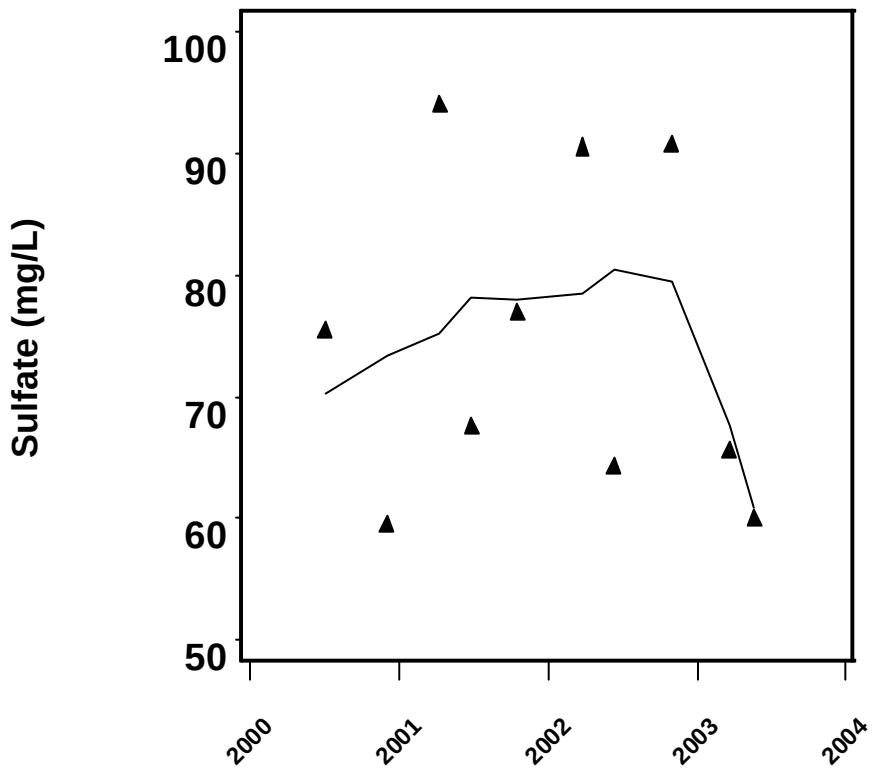
Appendix C-40. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 124 DEEP.



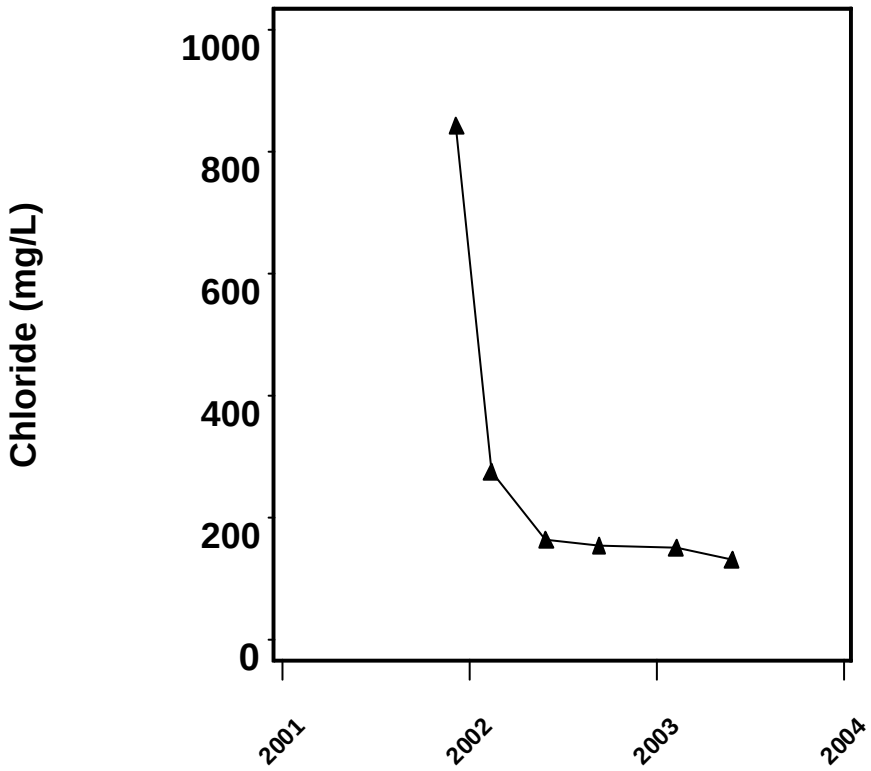


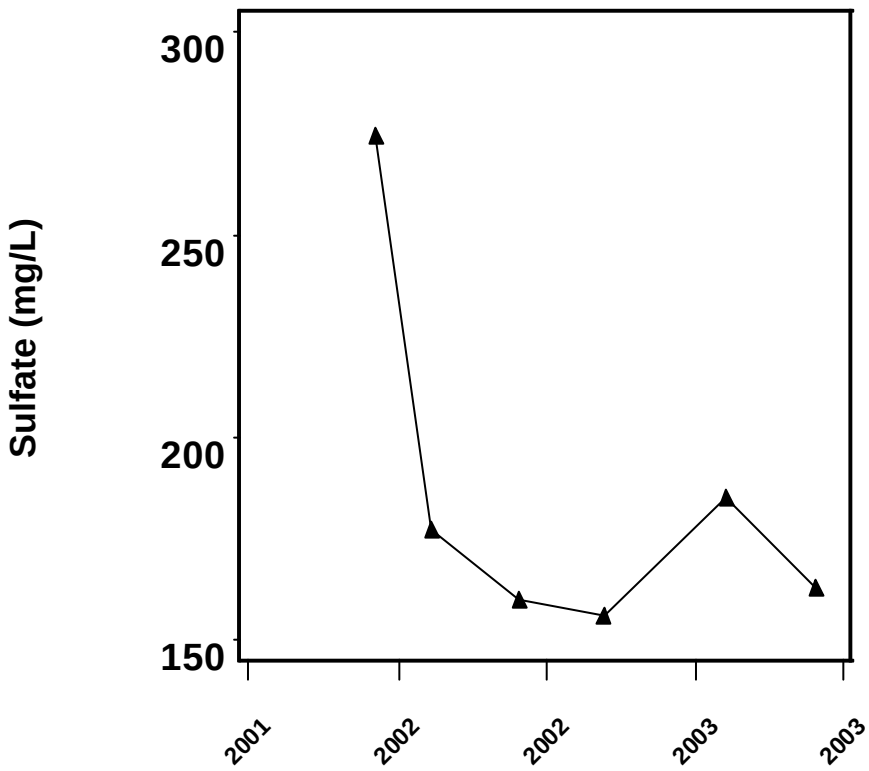
Appendix C-41. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 13 AVON PARK.



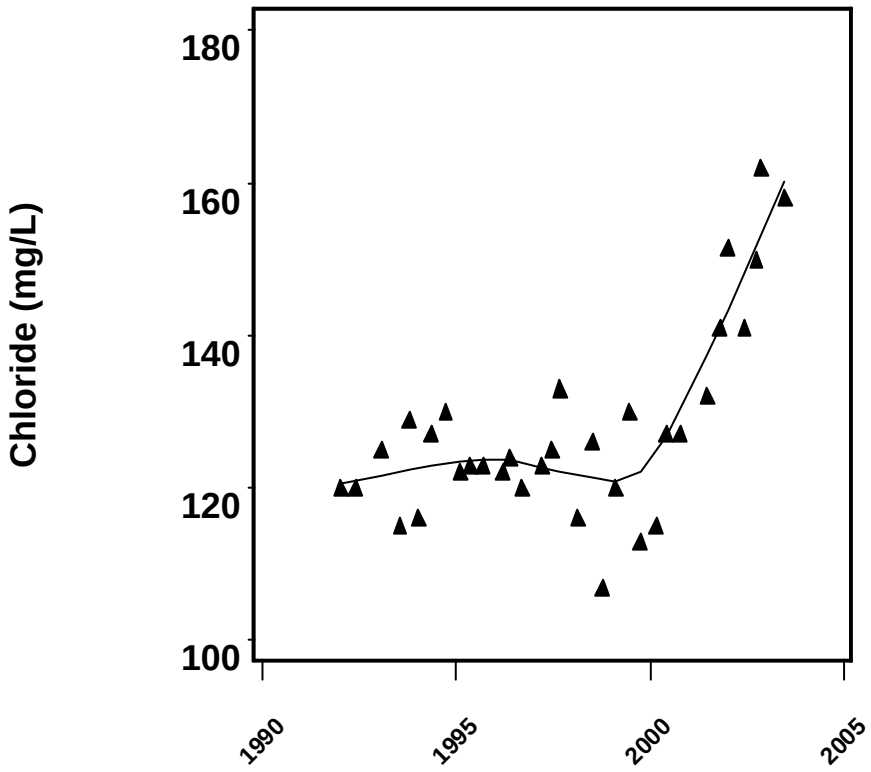


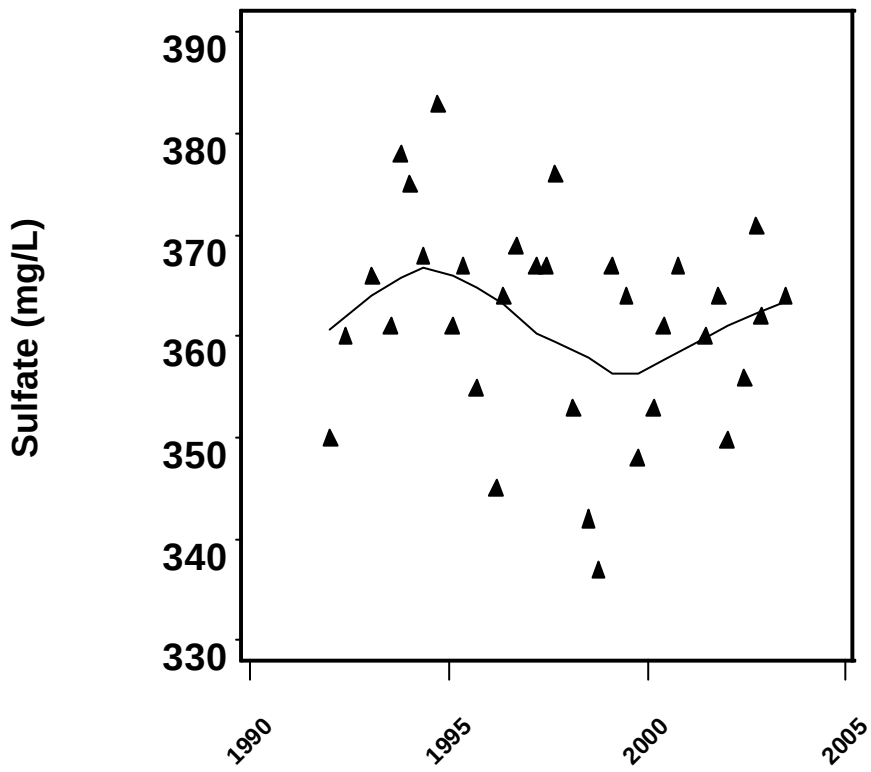
Appendix C-42. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 14 AVON PARK.



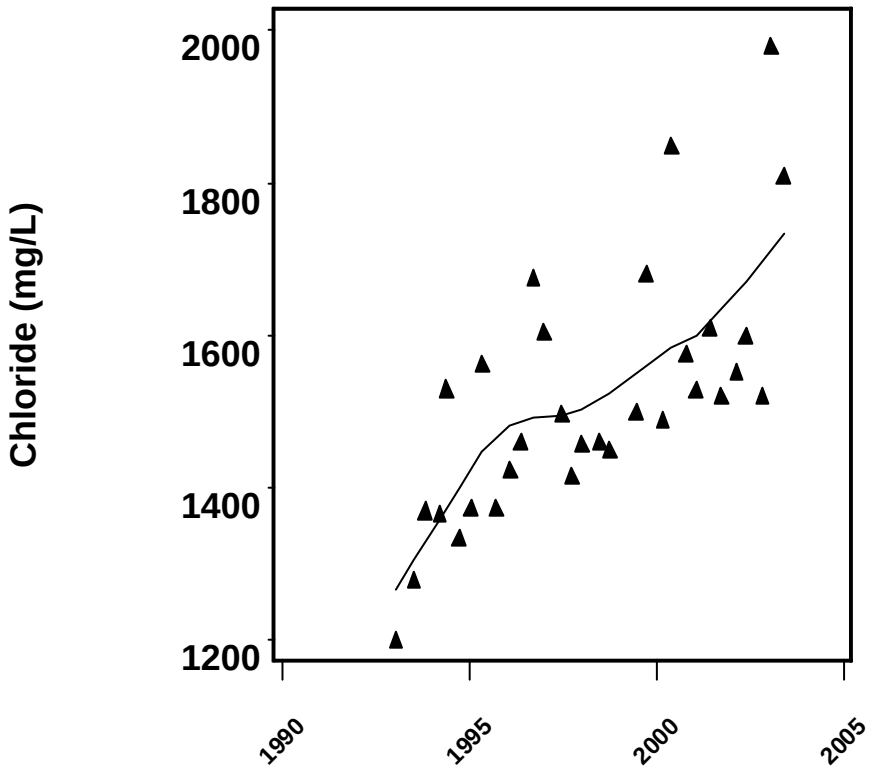


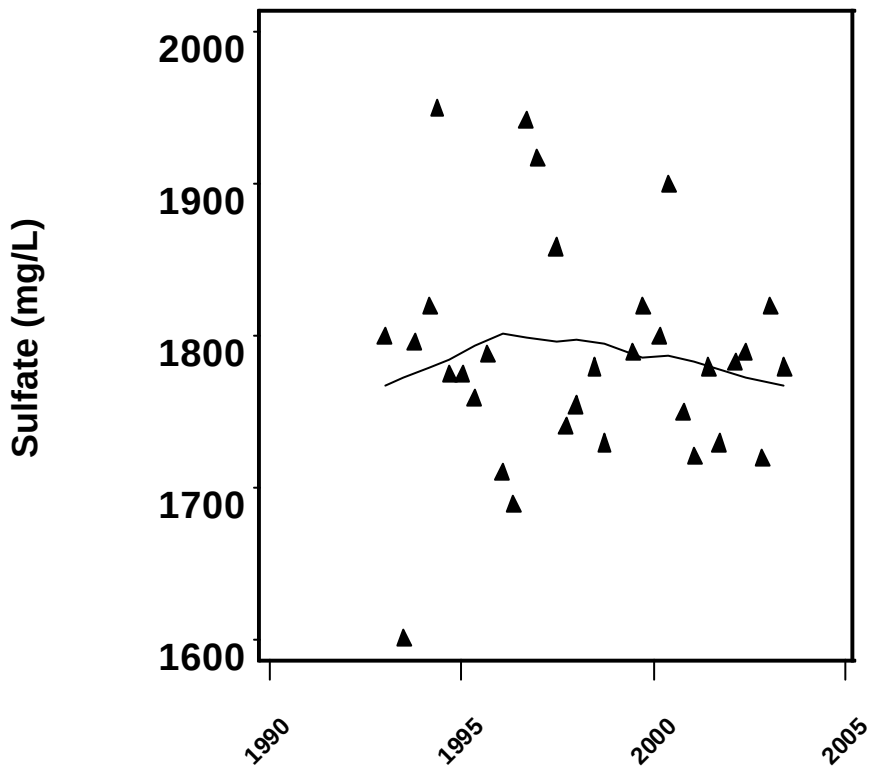
Appendix C-43. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 16.5 AVON PARK.



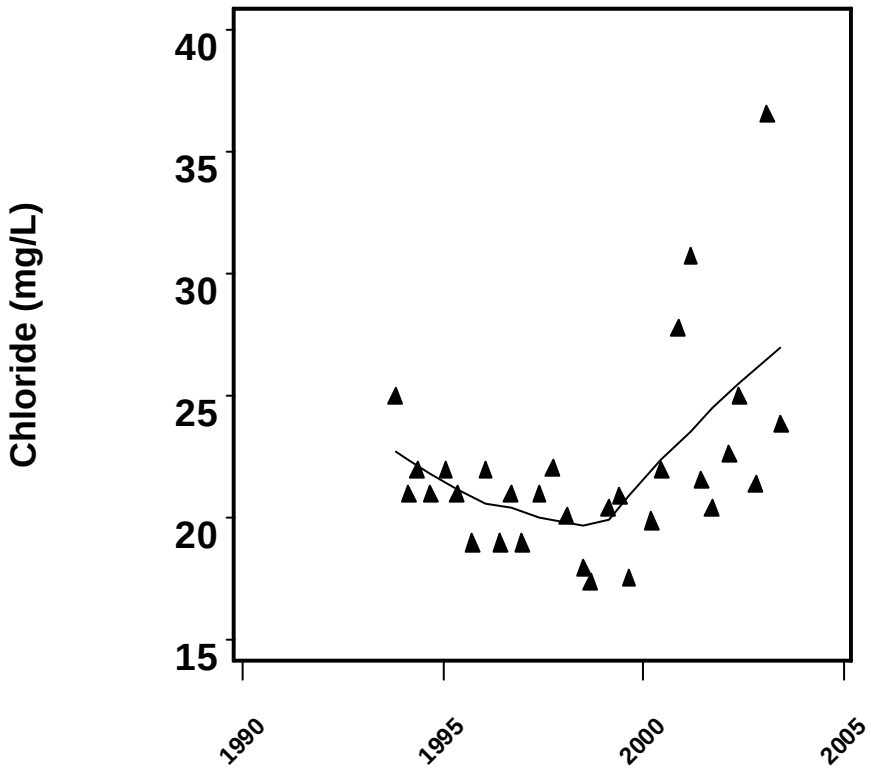


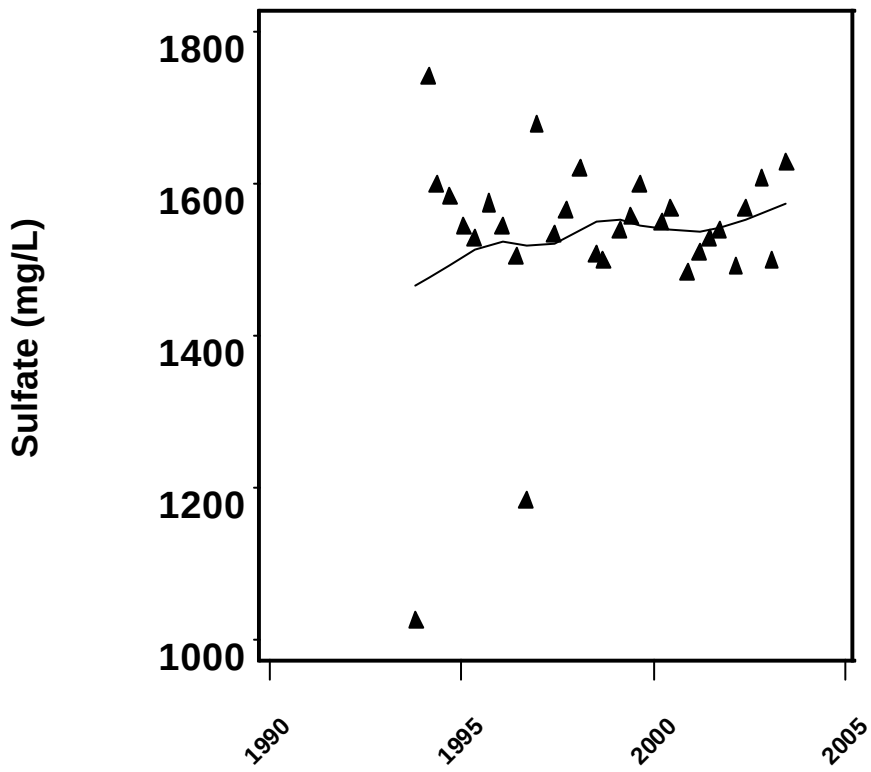
Appendix C-44. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 17 AVON PARK.



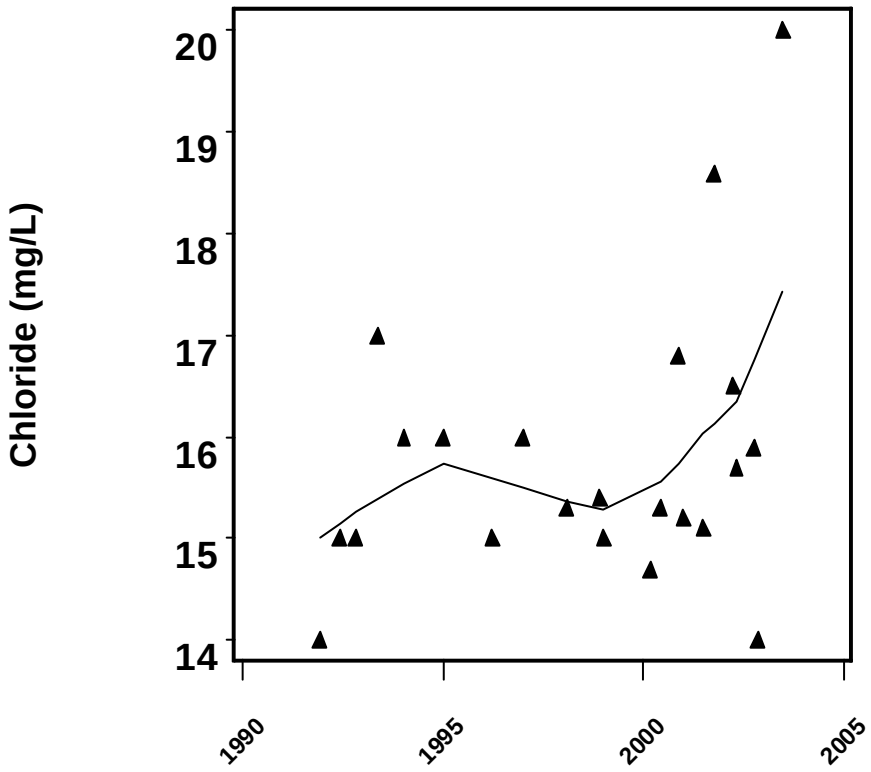


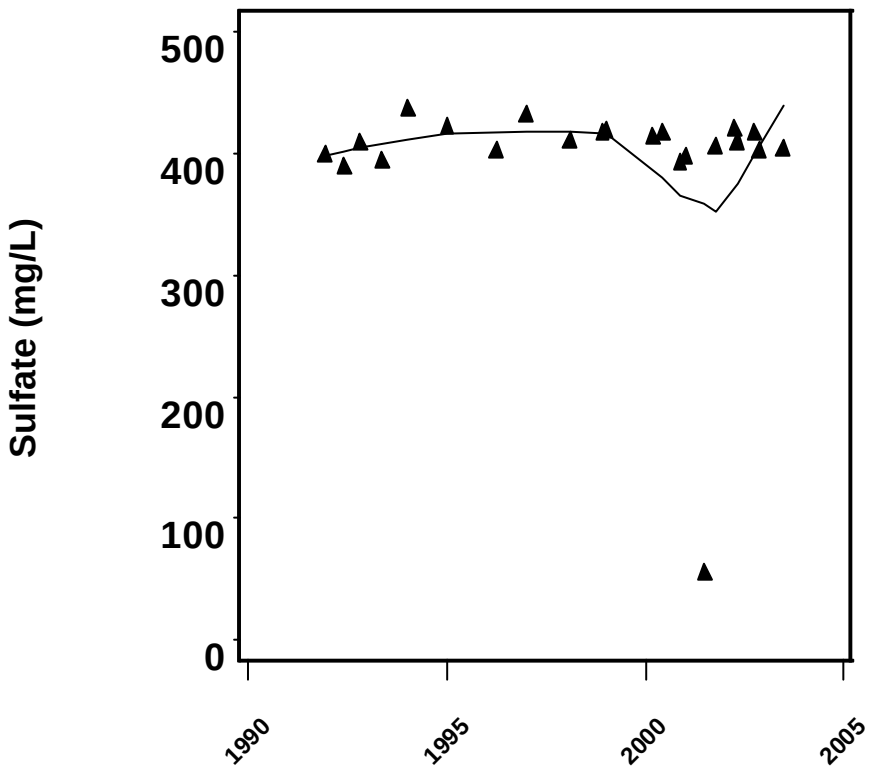
Appendix C-45. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 20 OCALA.



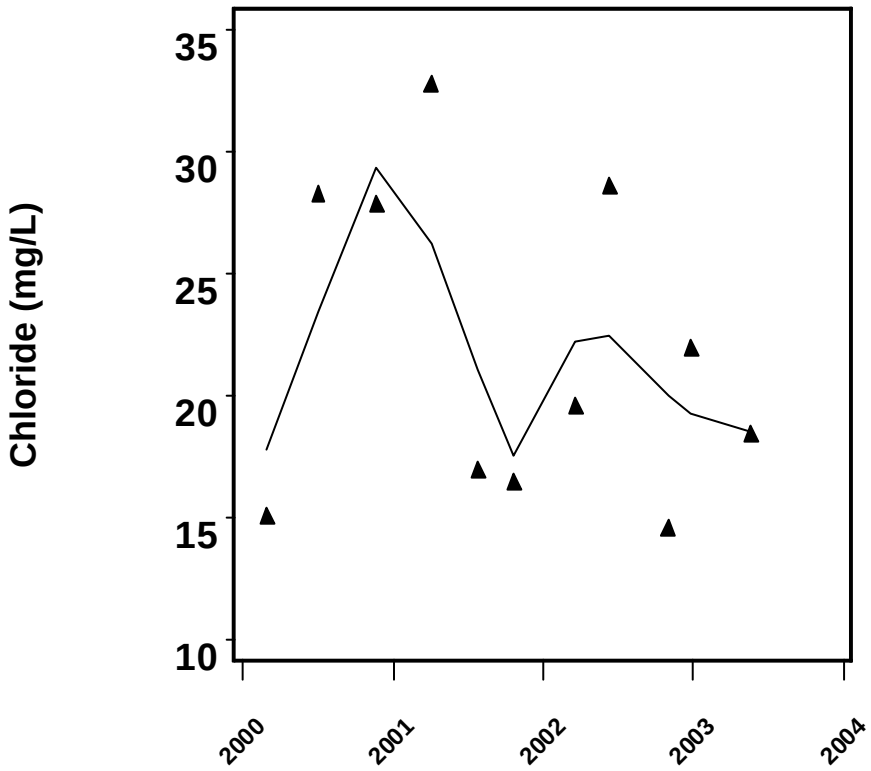


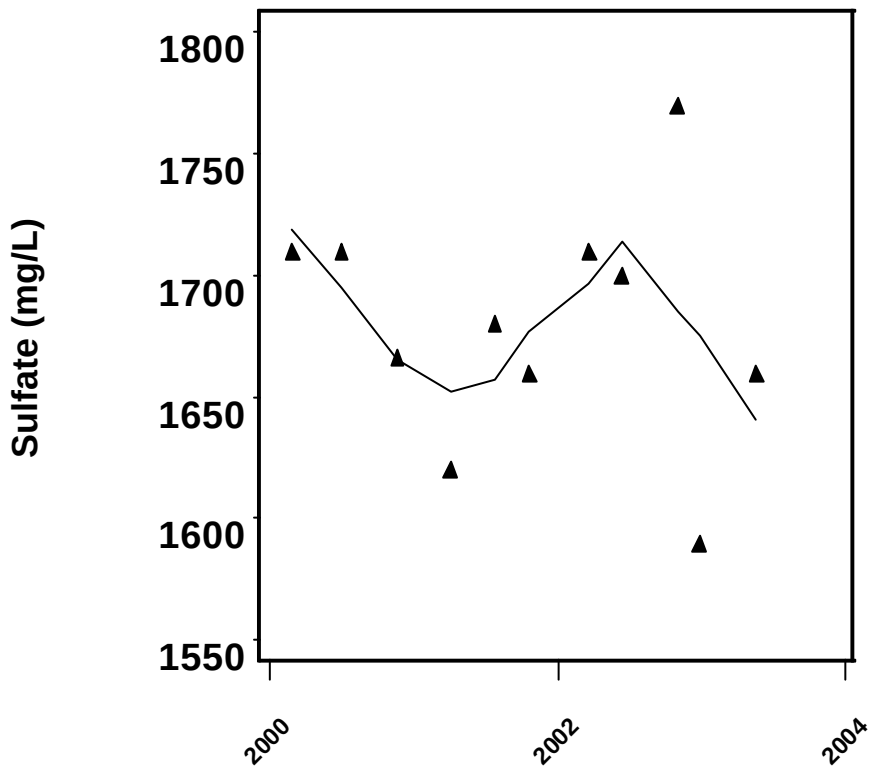
Appendix C-46. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 22 AVON PARK.



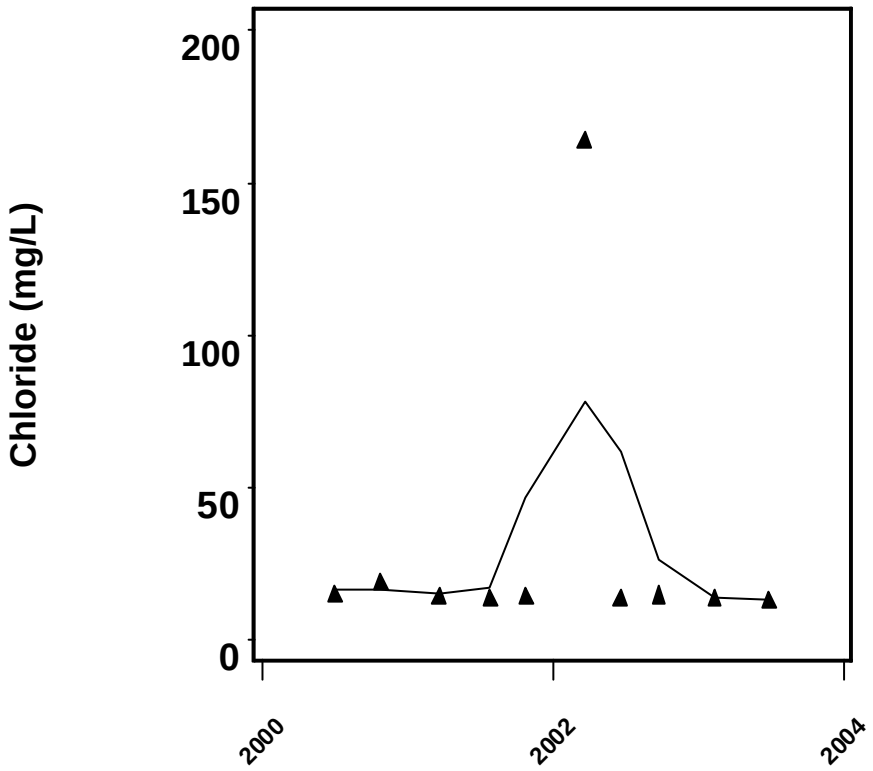


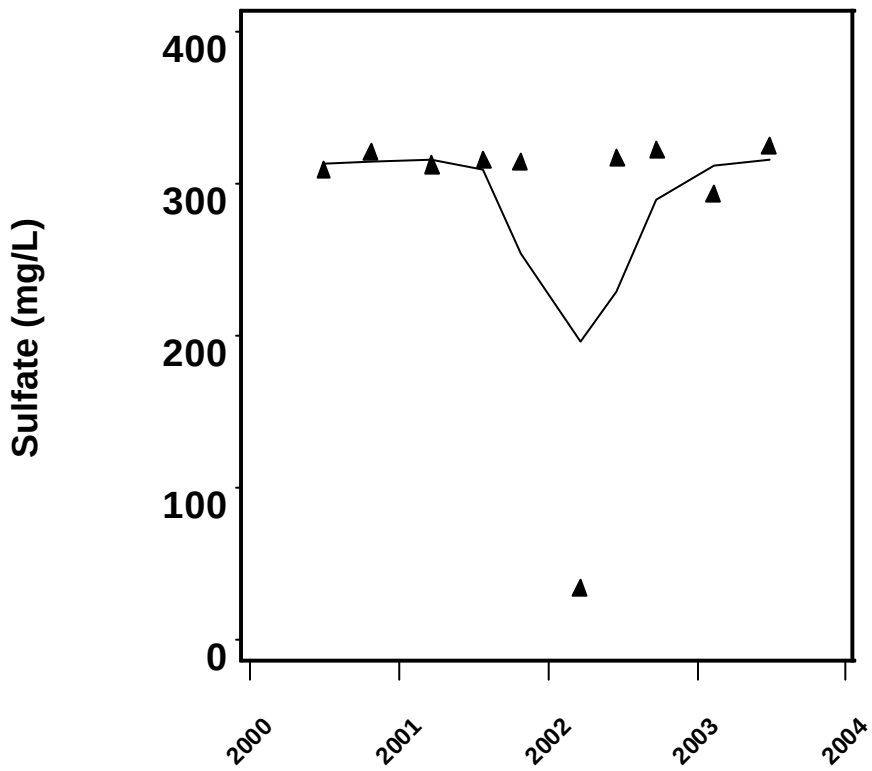
Appendix C-47. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 23-1 DEEP.



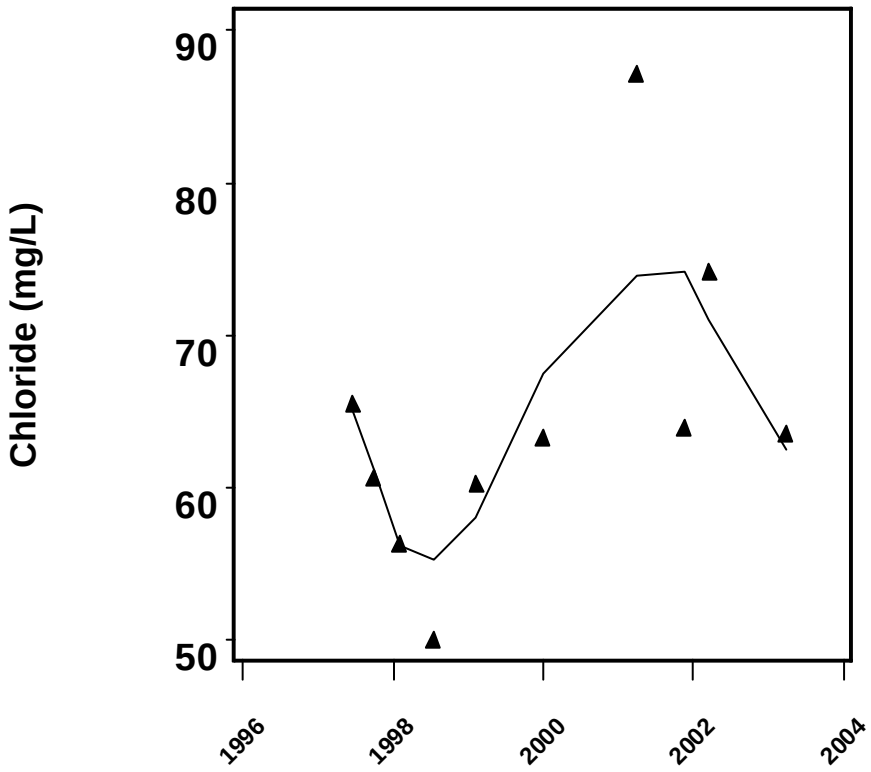


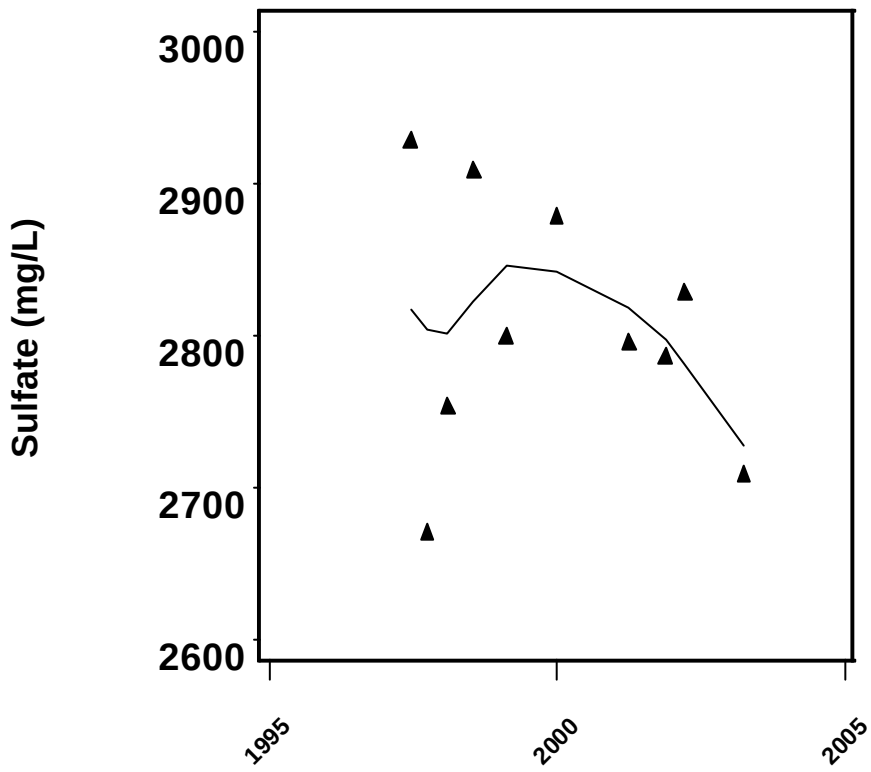
Appendix C-48. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 25 LILY AVON PARK.



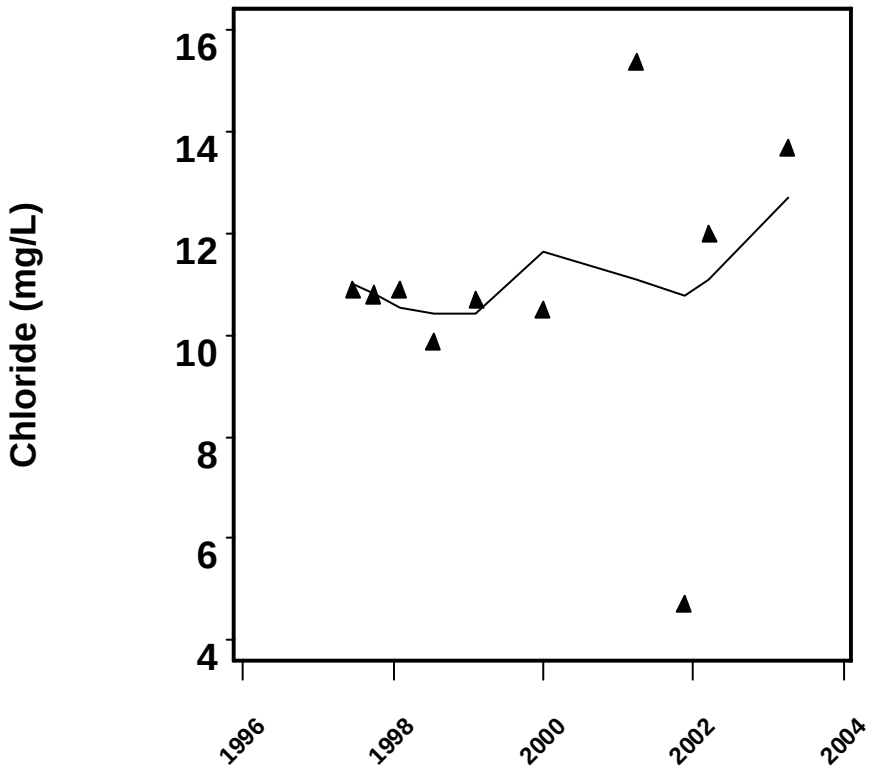


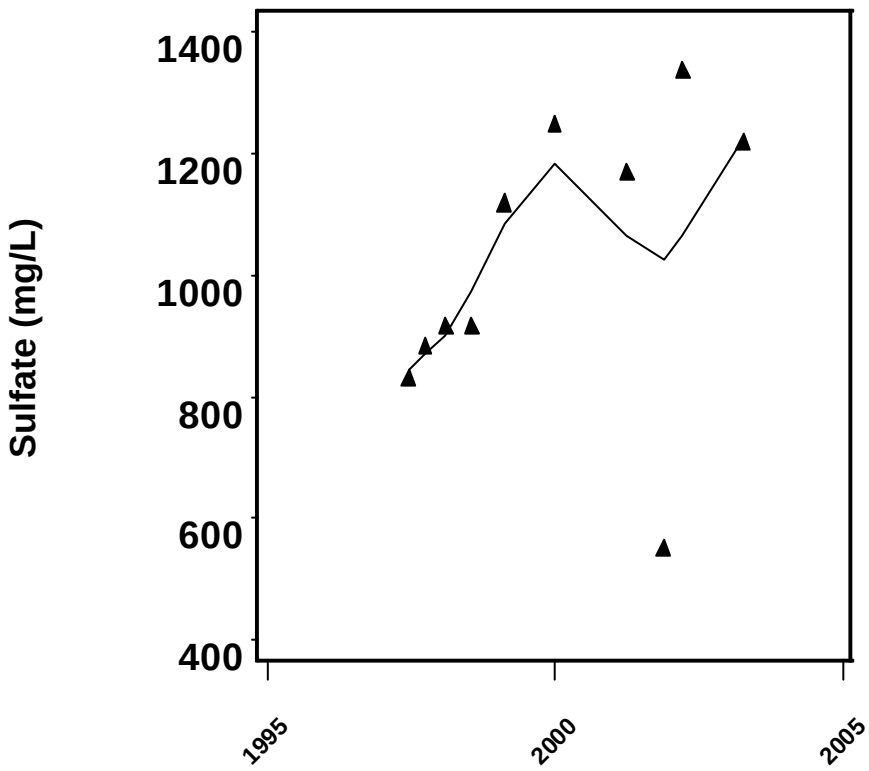
Appendix C-49. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 26 AVON PARK.



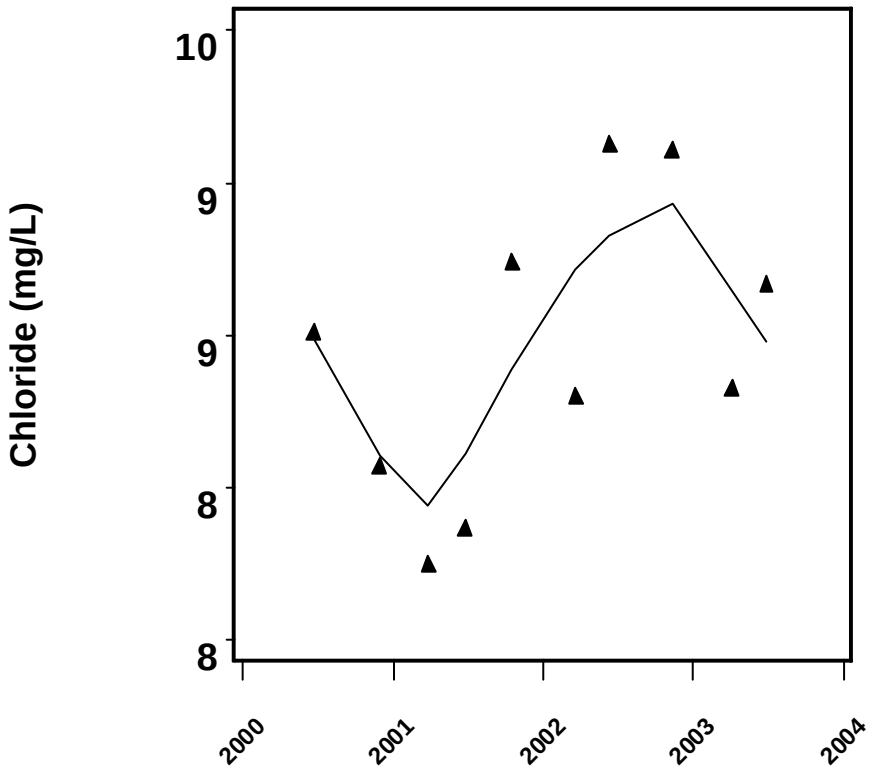


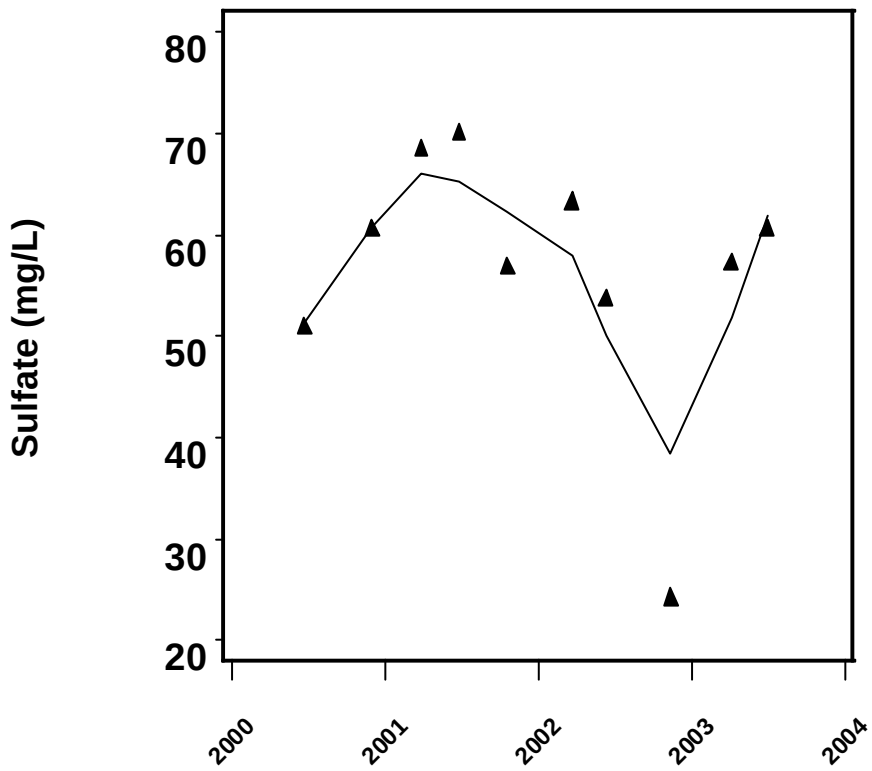
Appendix C-50. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 28 EVAPORITE.



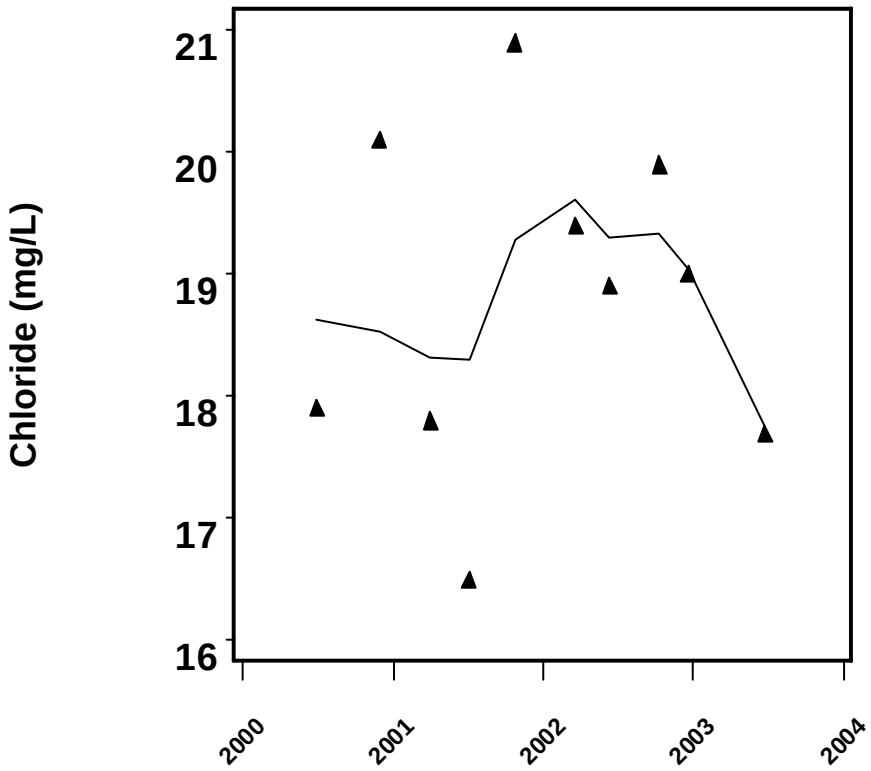


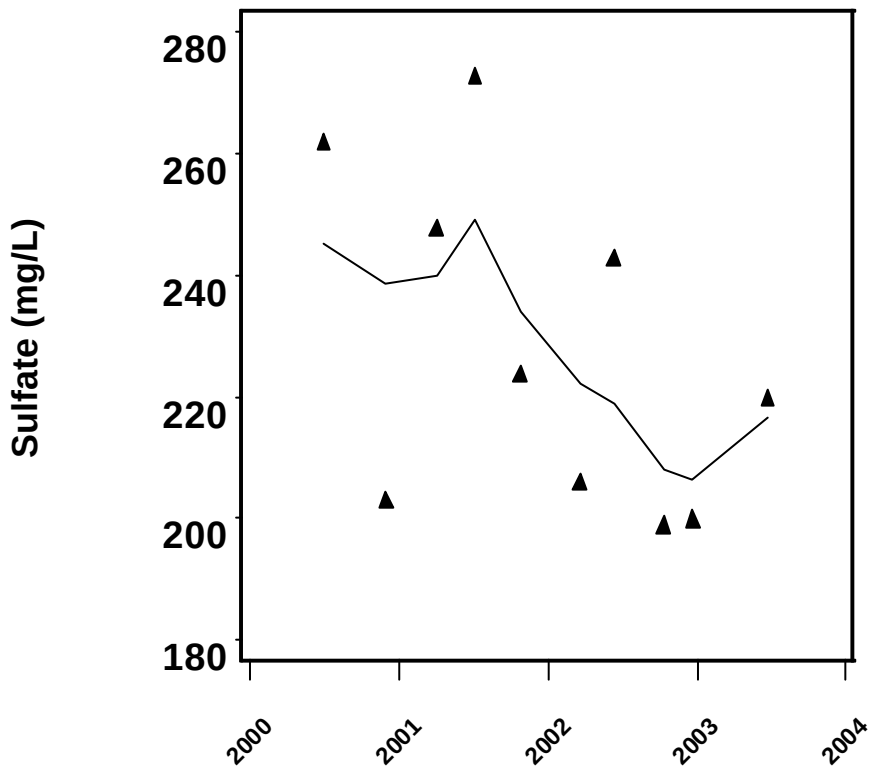
Appendix C-51. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 28 L AVON PARK.



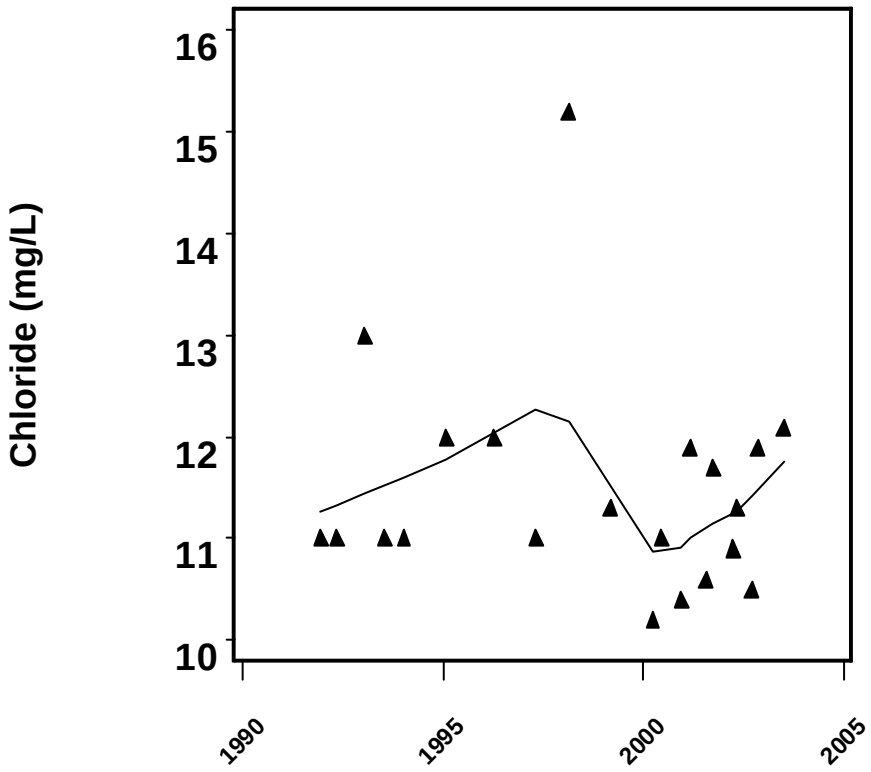


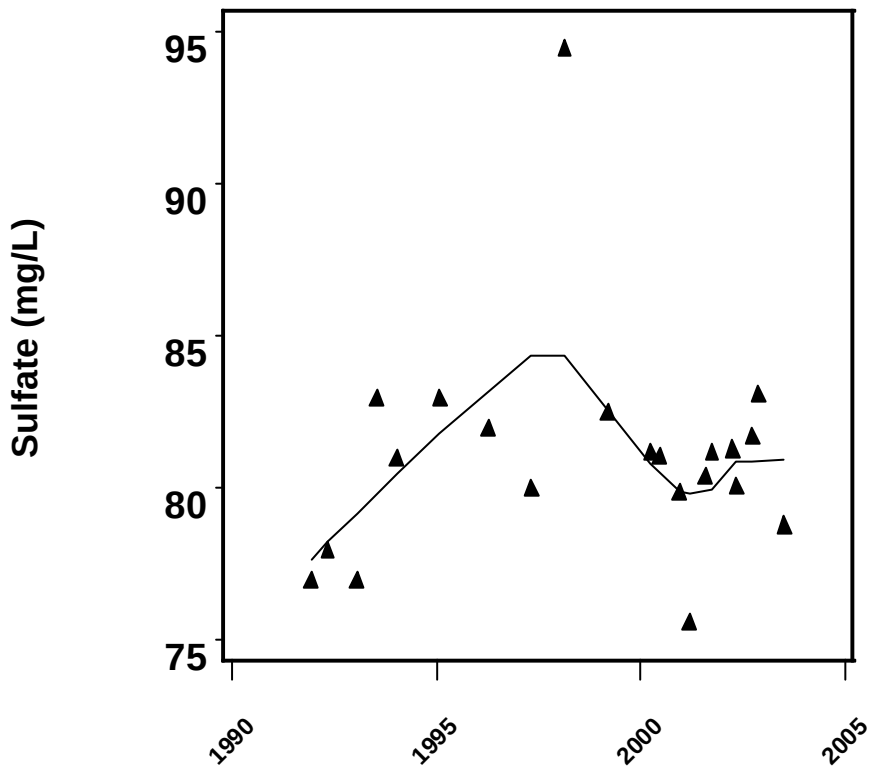
Appendix C-52. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 28 UP AVON PARK.



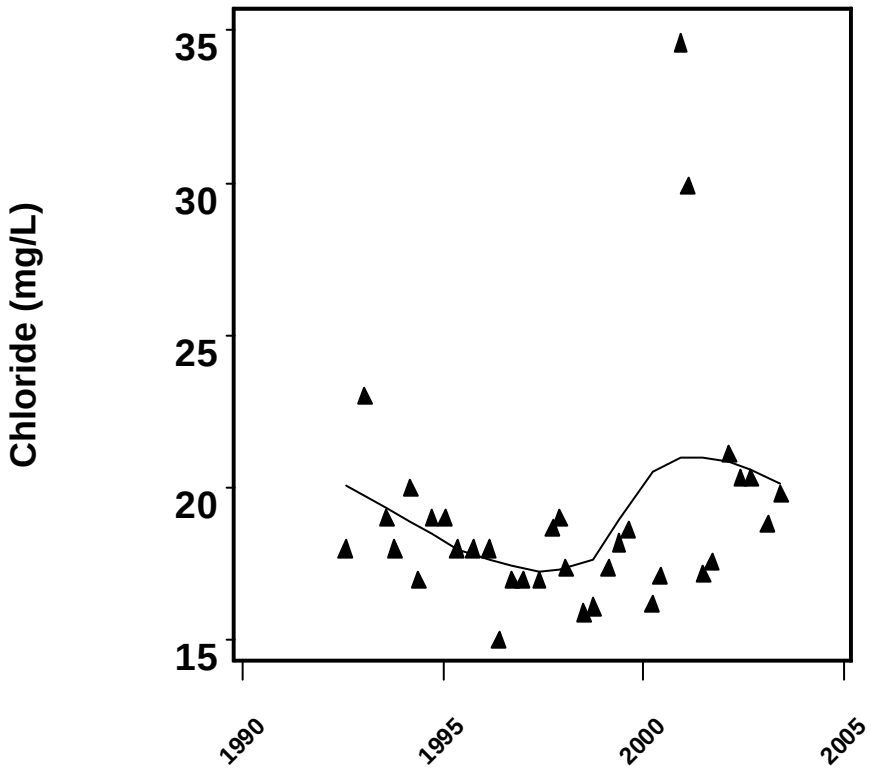


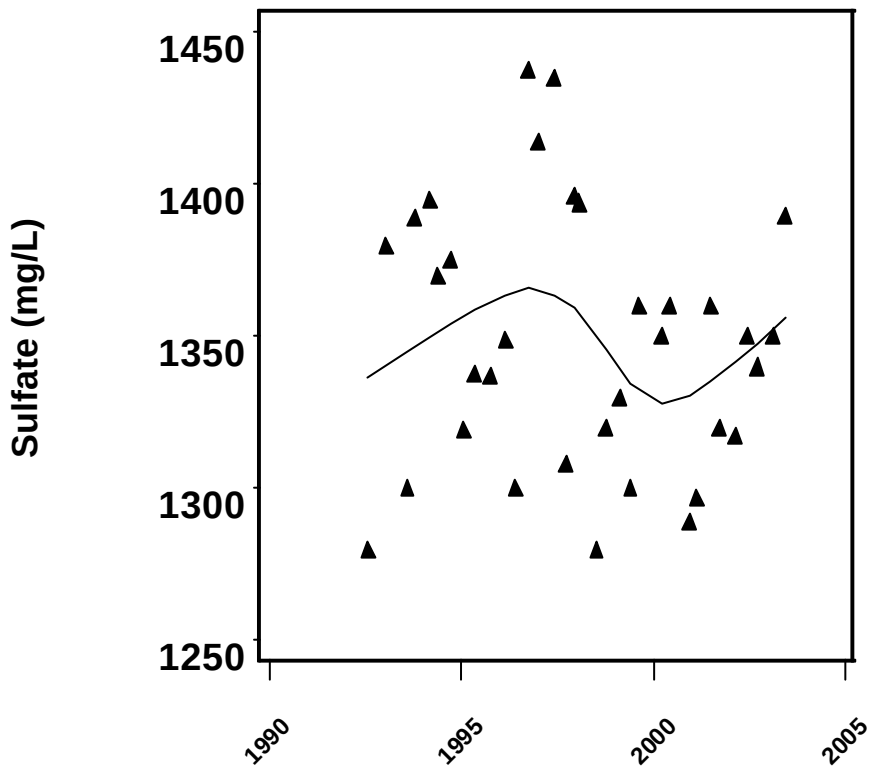
Appendix C-53. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 30 AVON PARK.



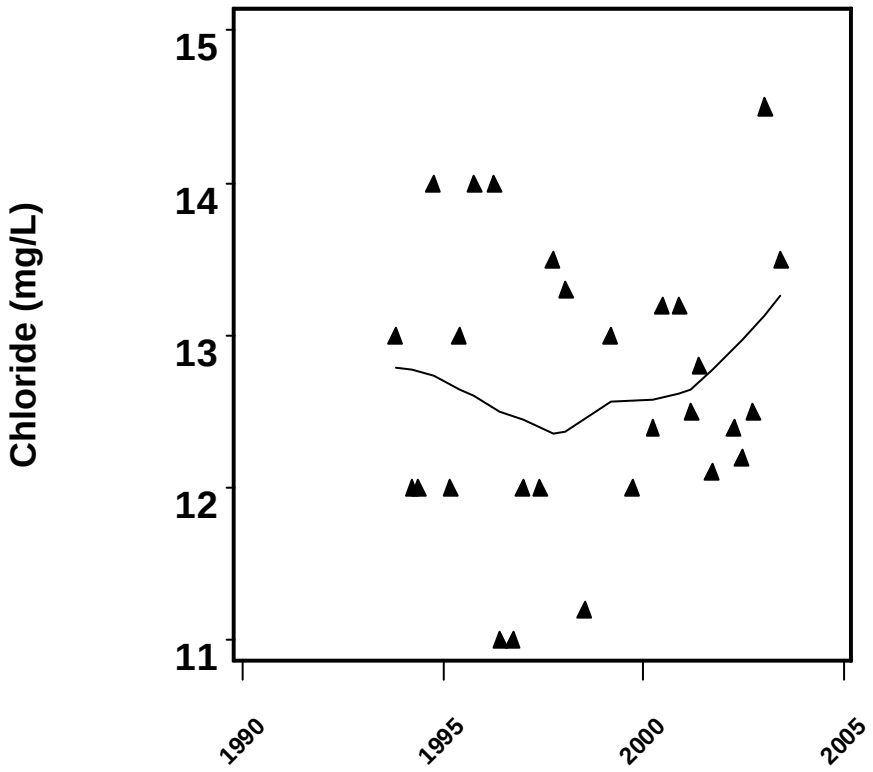


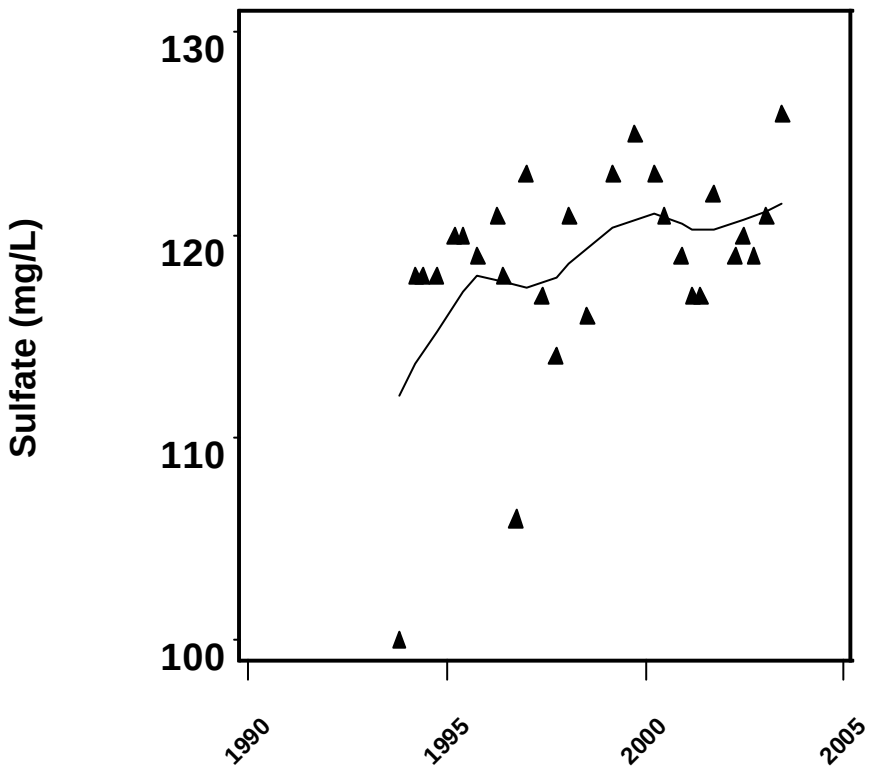
Appendix C-54. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 32 AVON PARK.



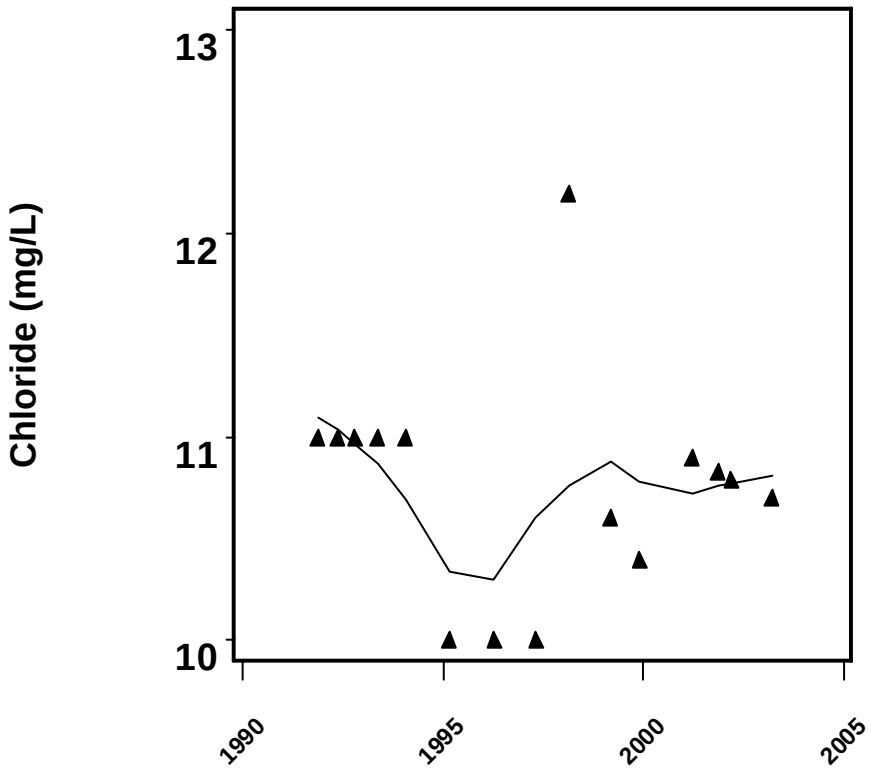


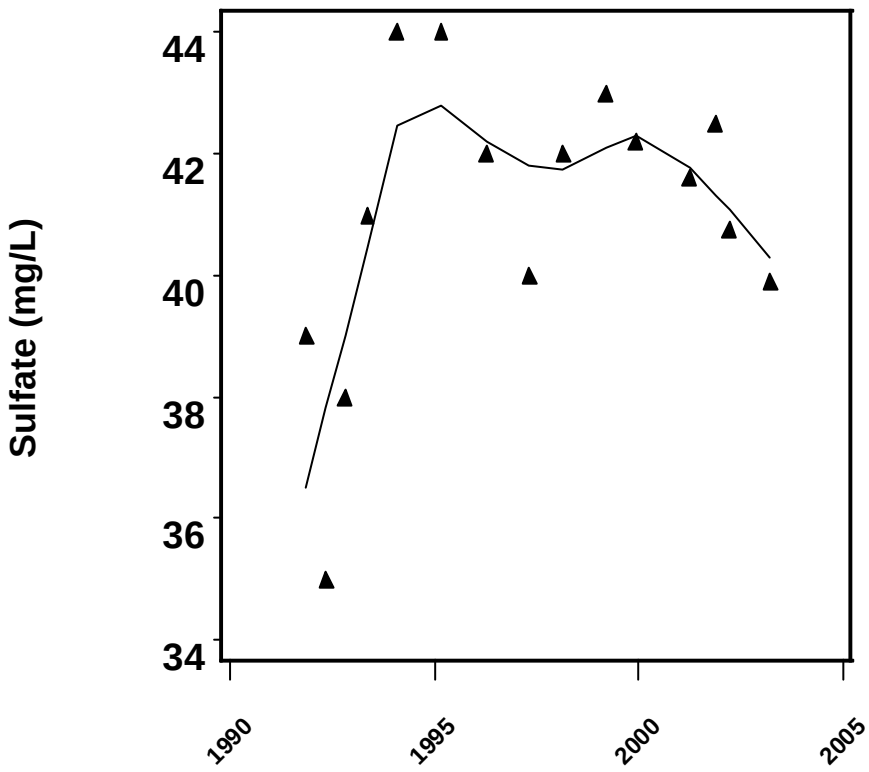
Appendix C-55. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 33 AVON PARK.



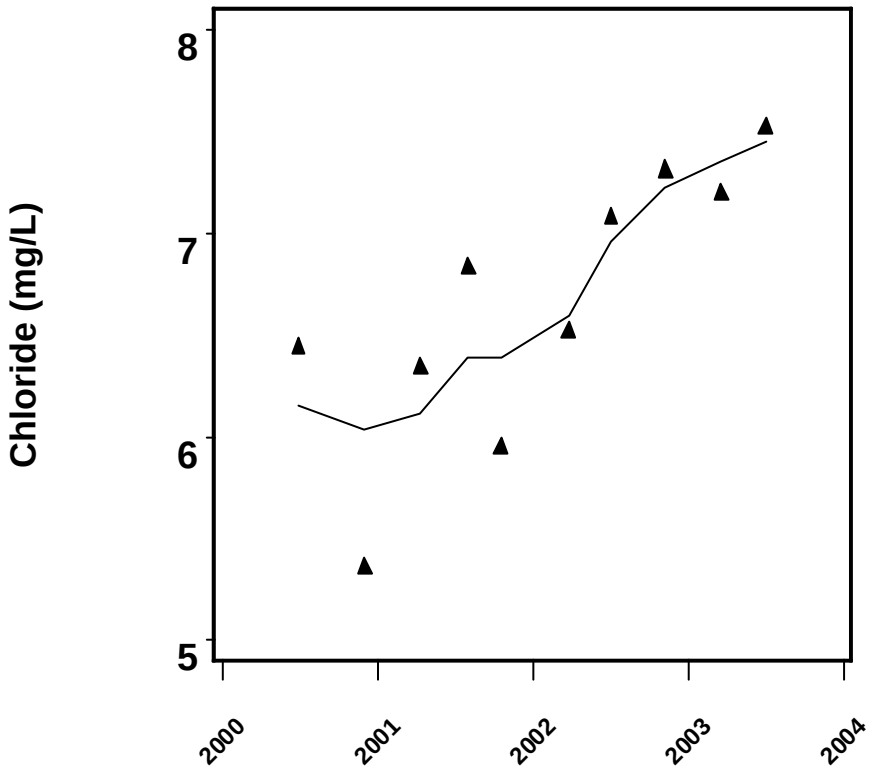


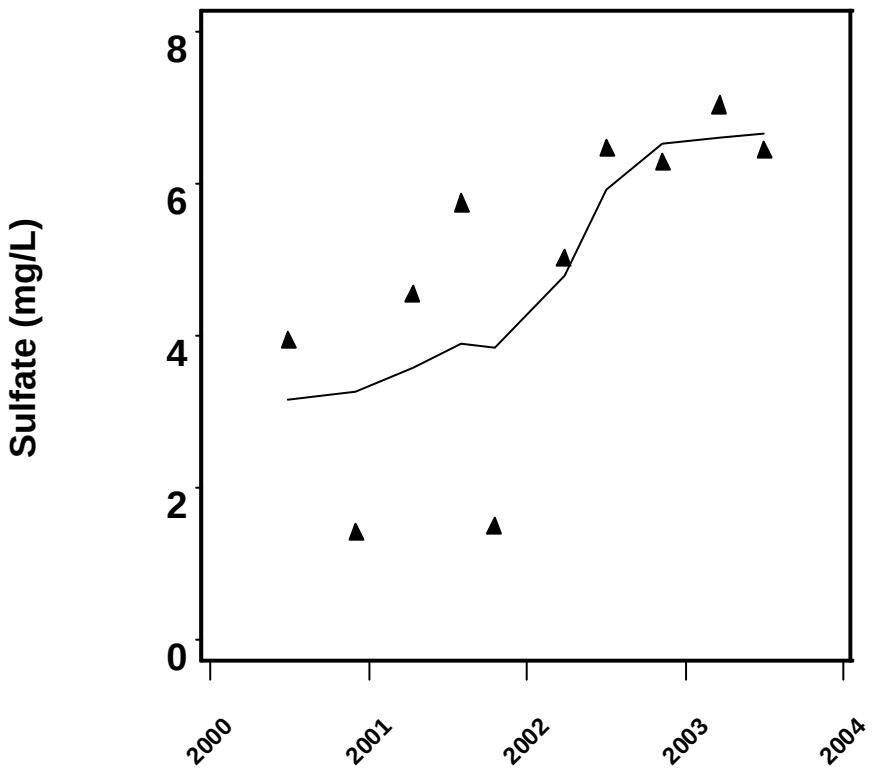
Appendix C-56. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 39 AVON PARK.



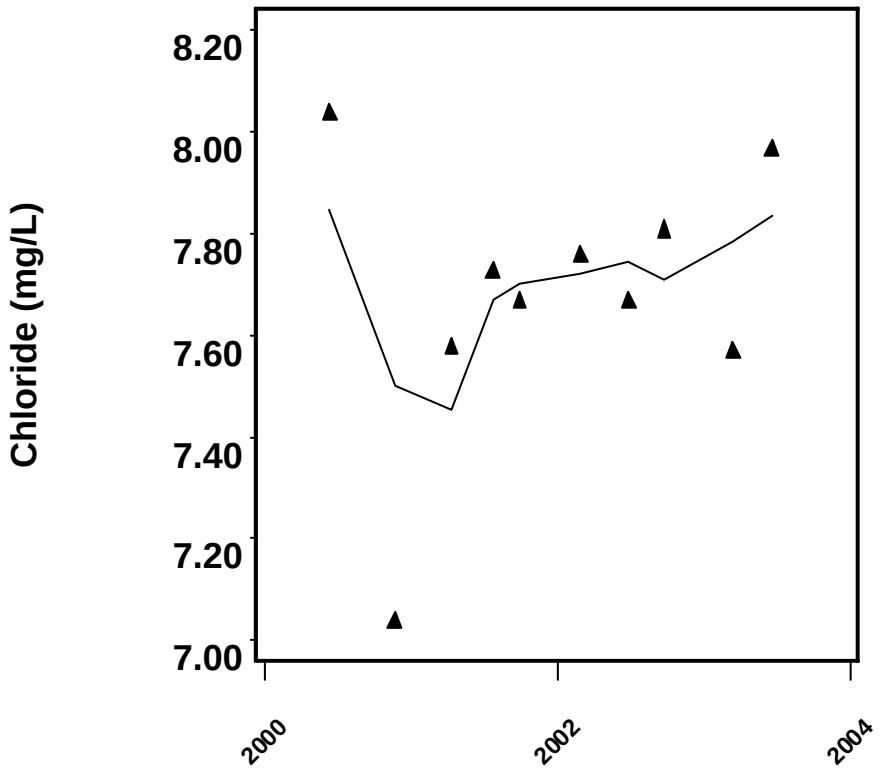


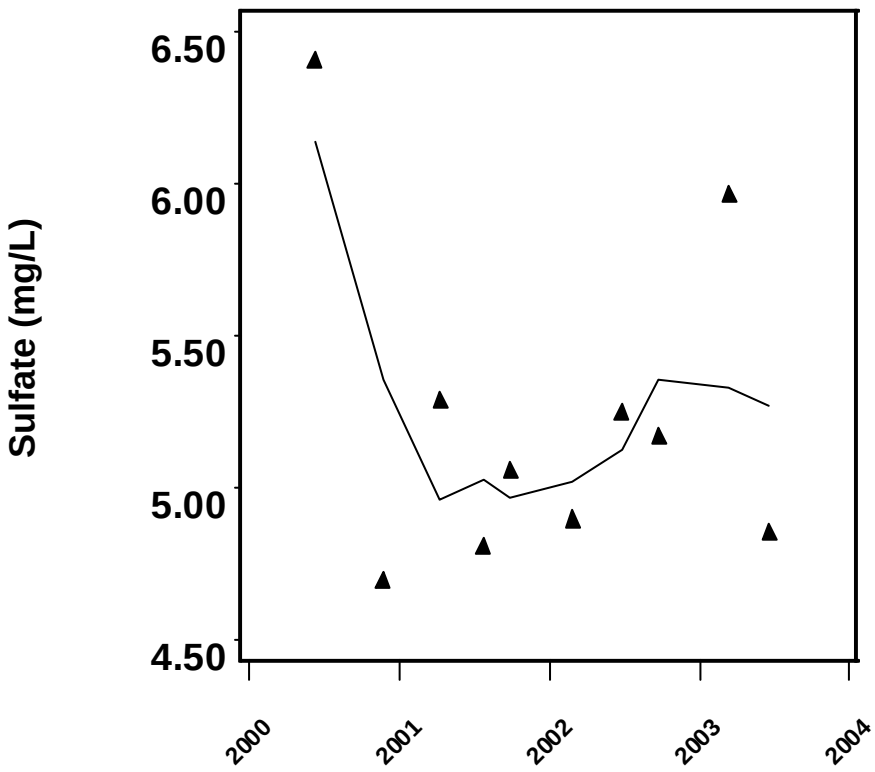
Appendix C-57. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 40 AVON PARK.



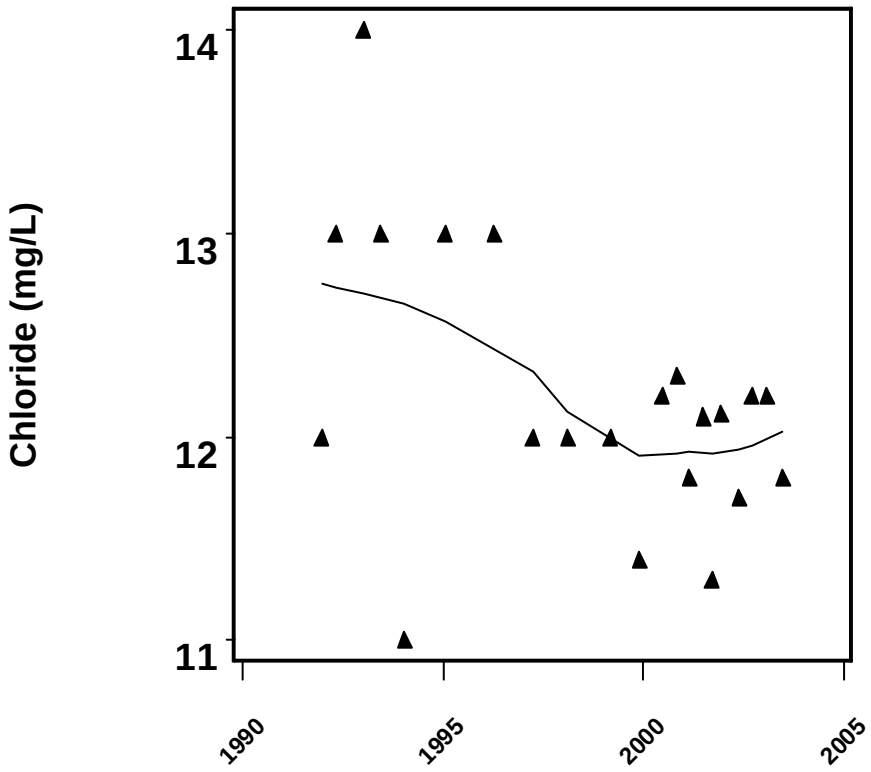


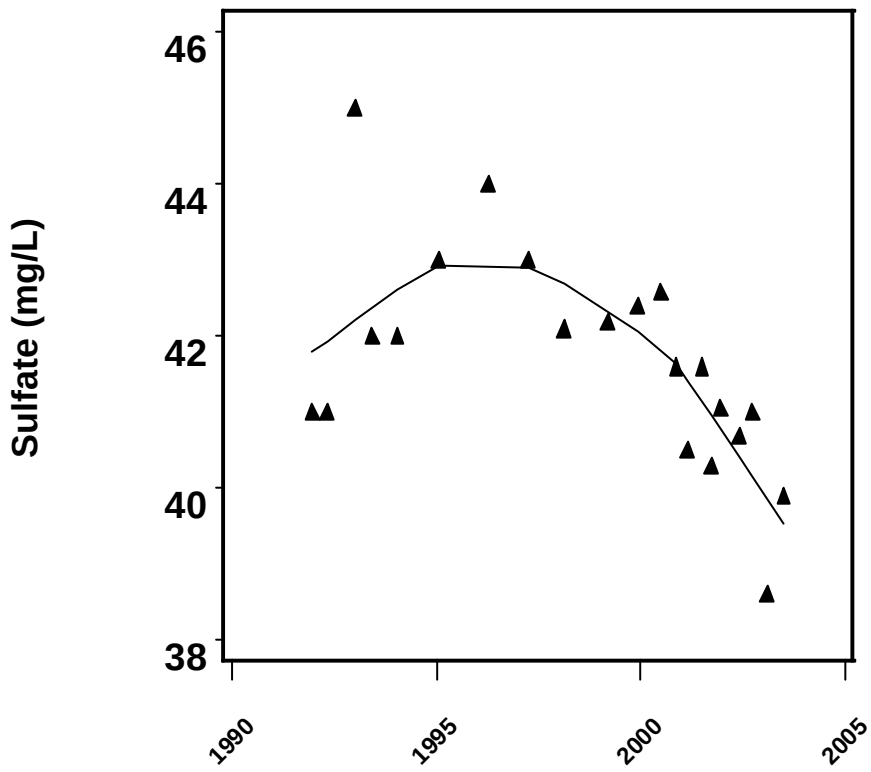
Appendix C-58. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 43XX FLORIDAN.



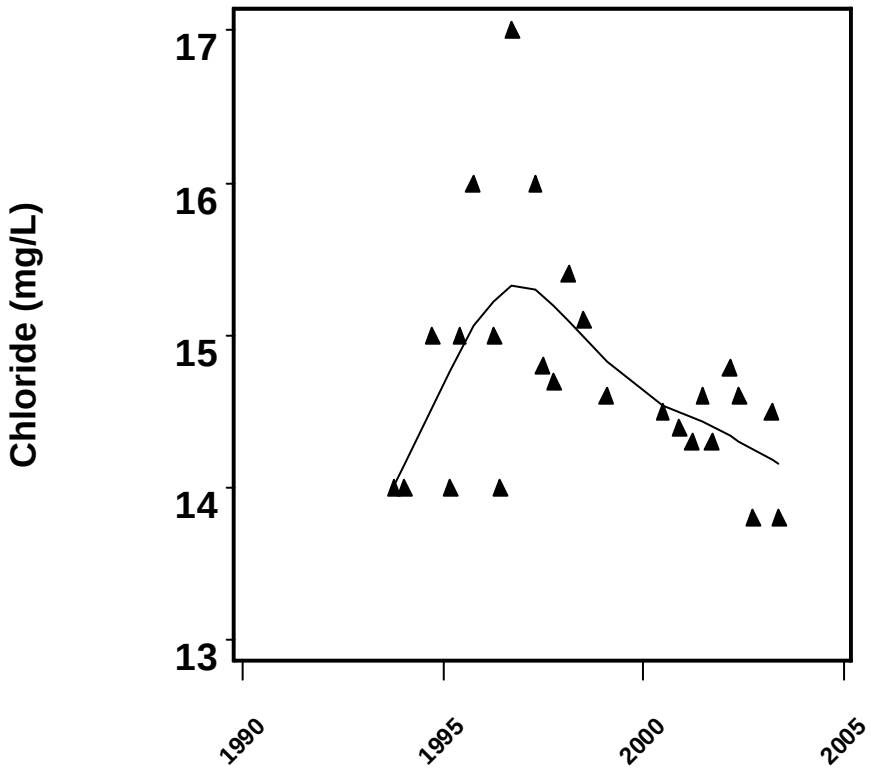


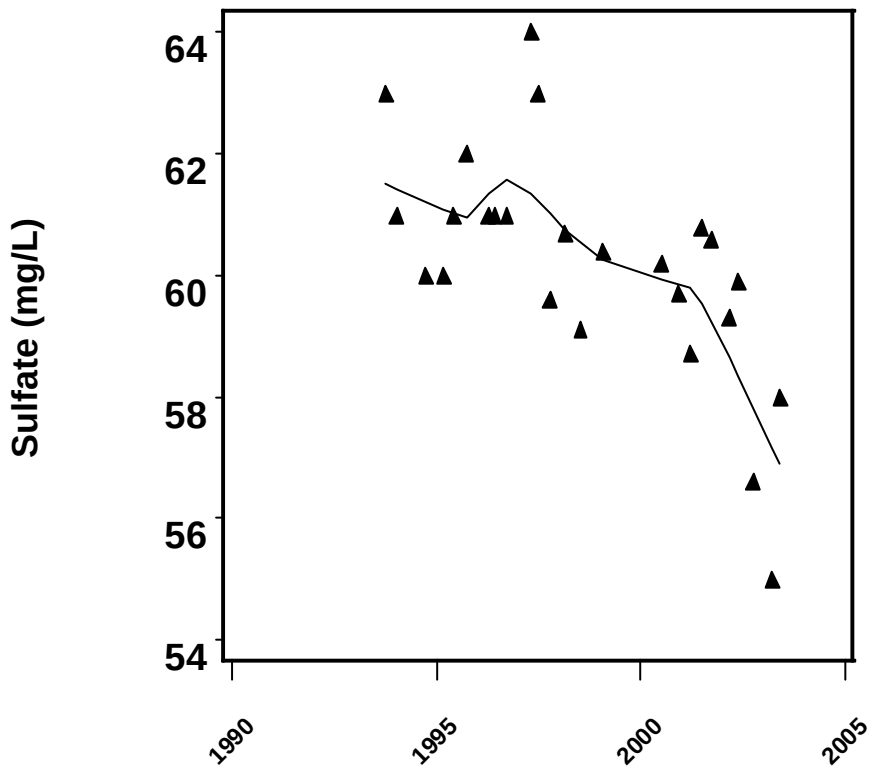
Appendix C-59. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 45 AVON PARK.



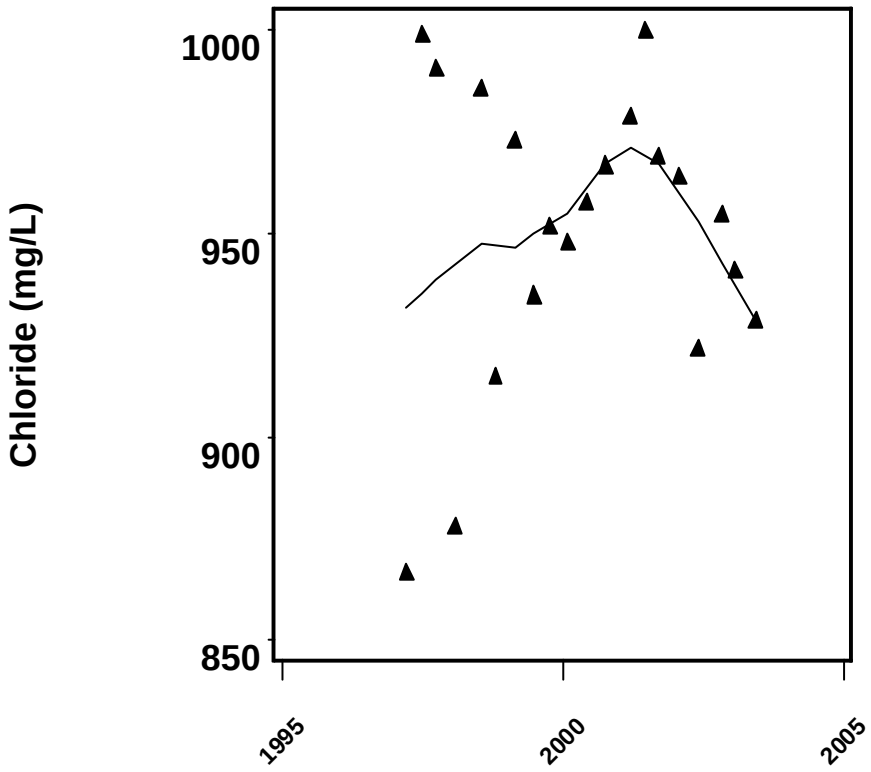


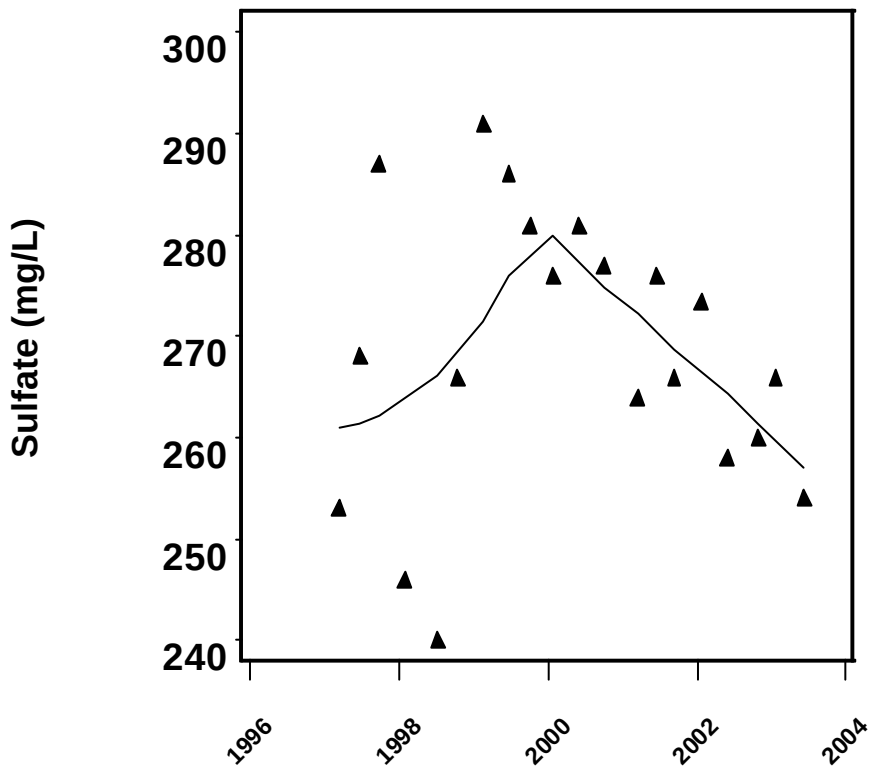
Appendix C-60. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 48 AVON PARK.



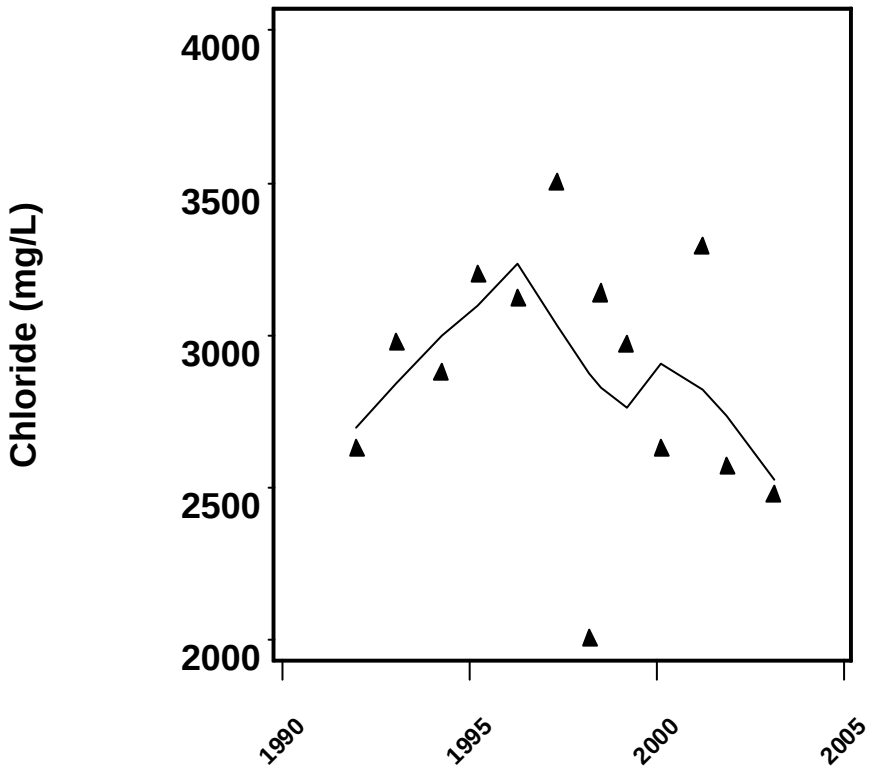


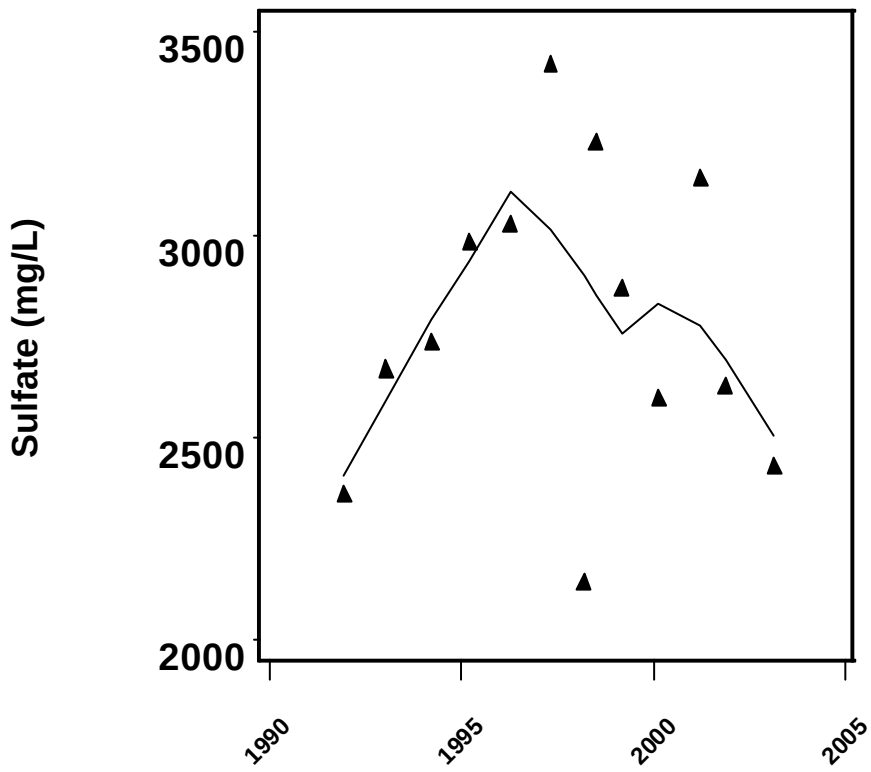
Appendix C-61. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 49 AVON PARK.



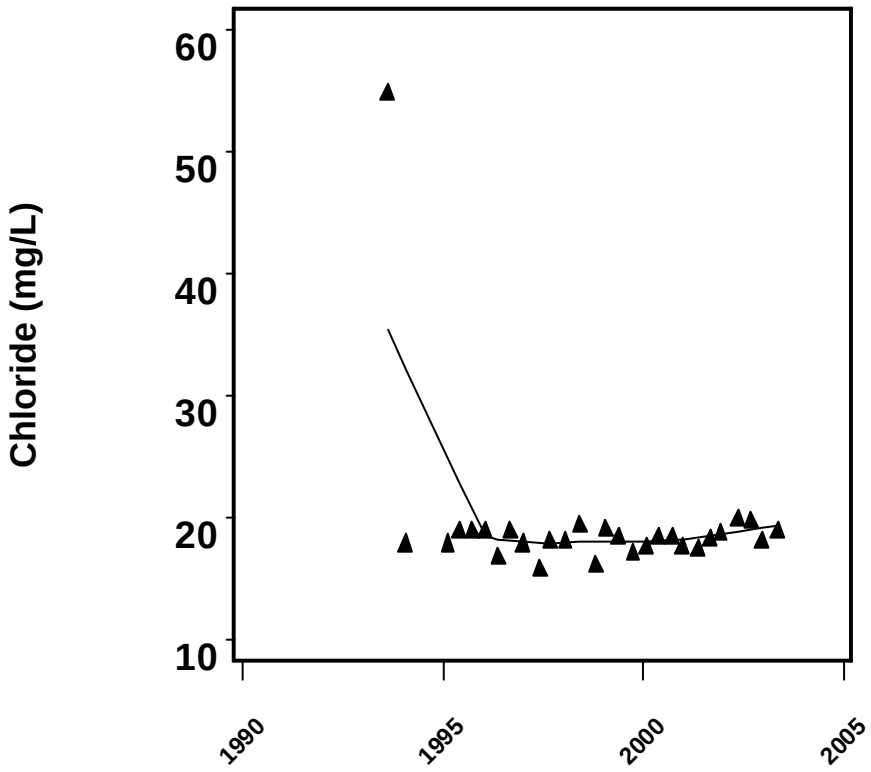


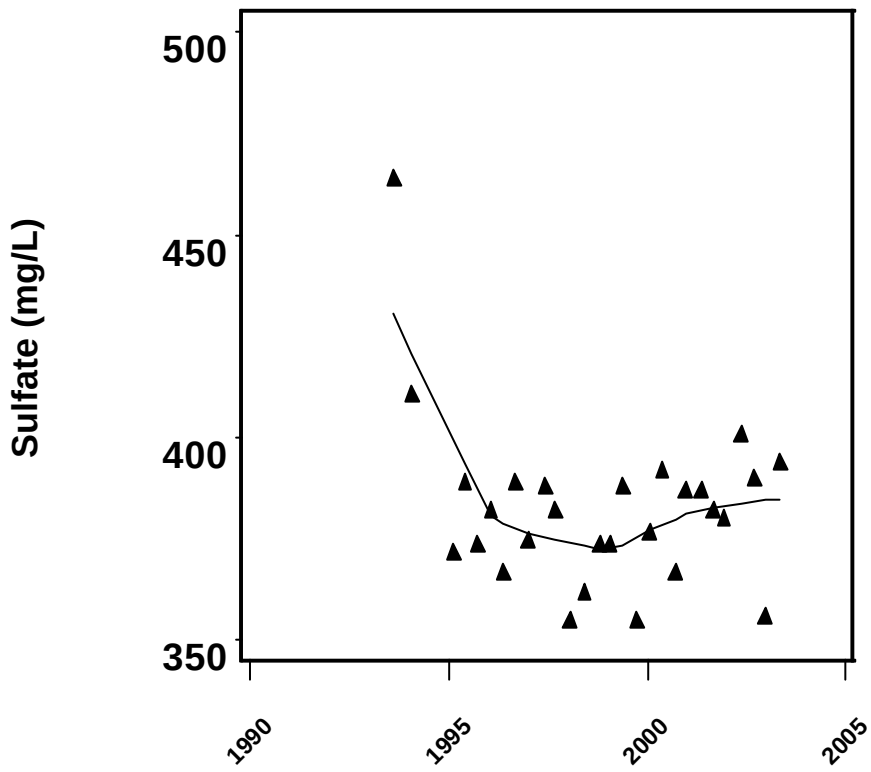
Appendix C-62. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 5 AVON PARK.



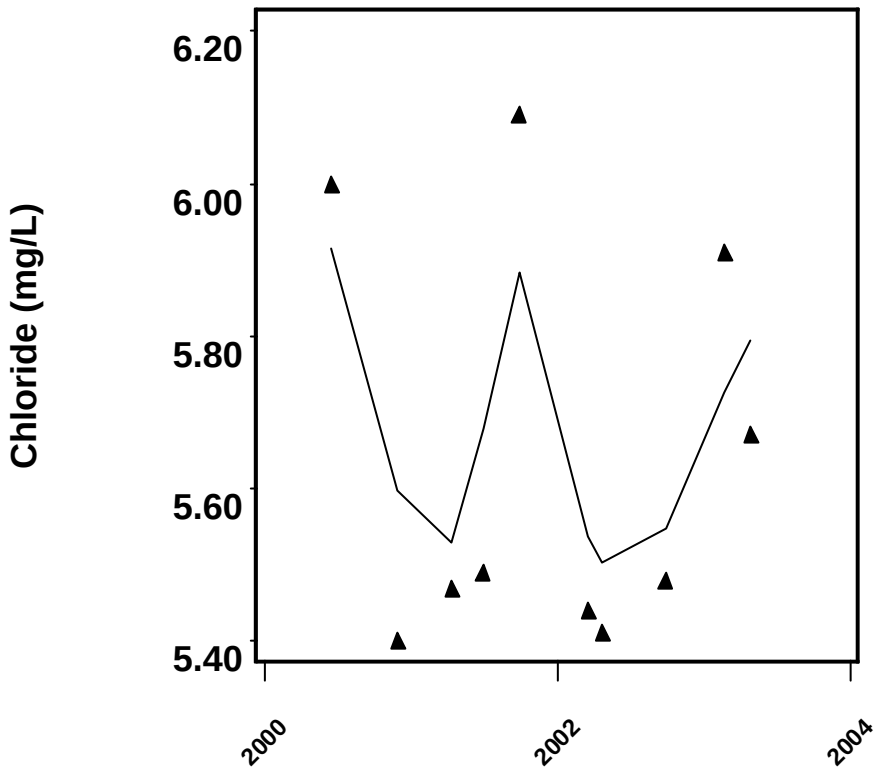


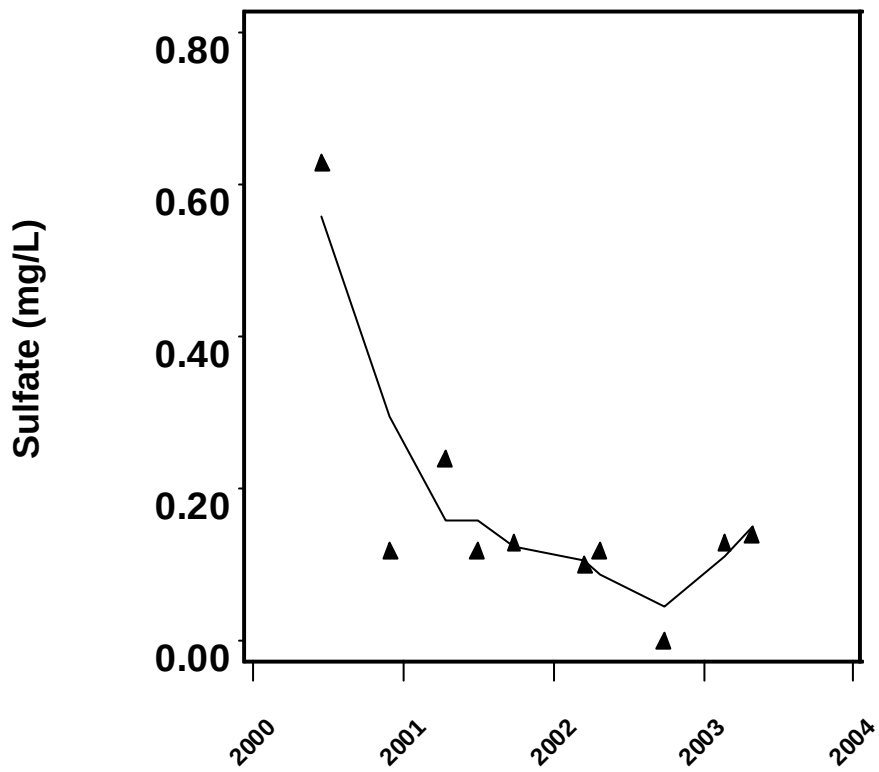
Appendix C-63. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 50 AVON PARK.



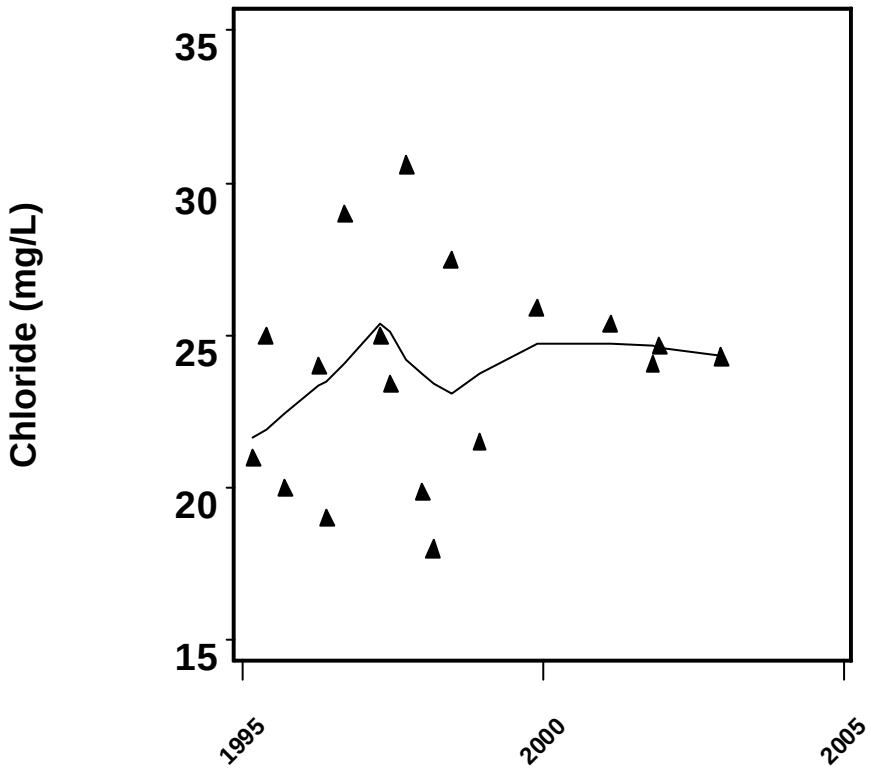


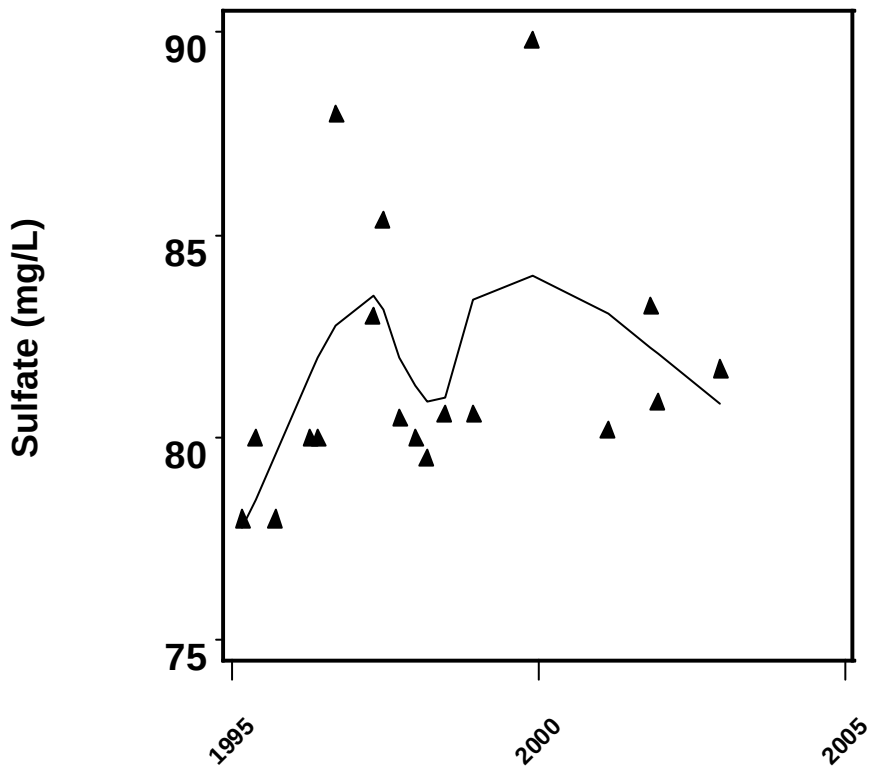
Appendix C-64. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 51 – ELAPP.



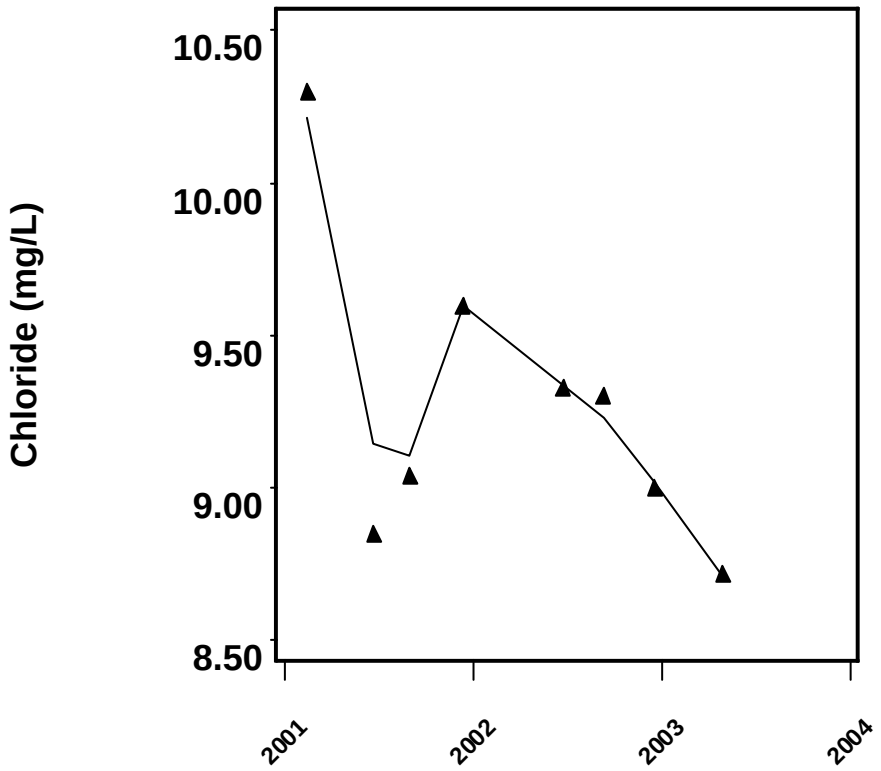


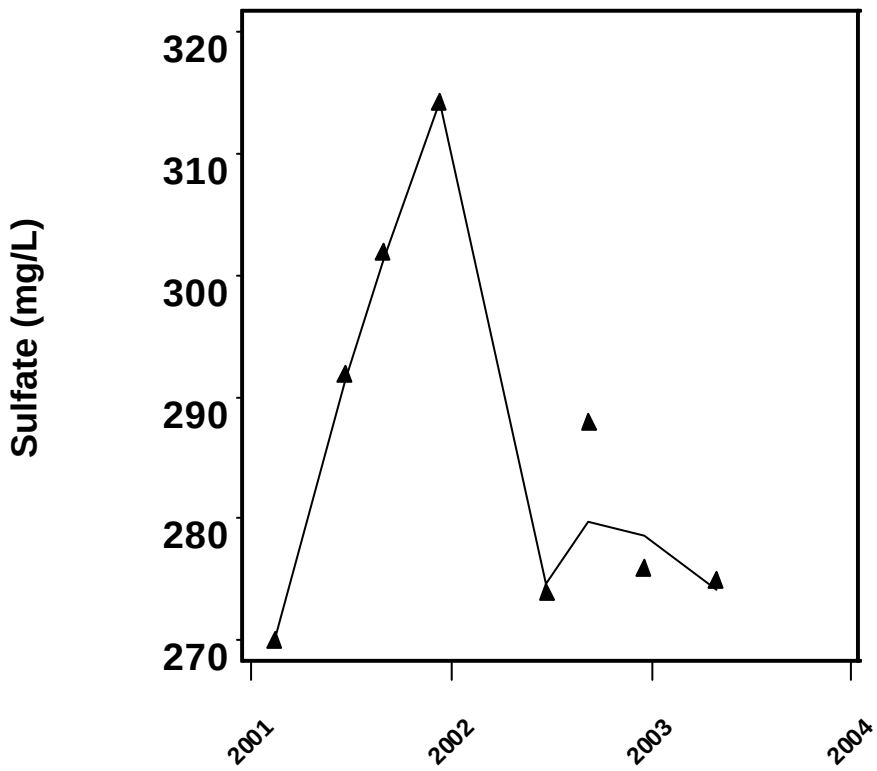
Appendix C-65. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 58 OCALA.



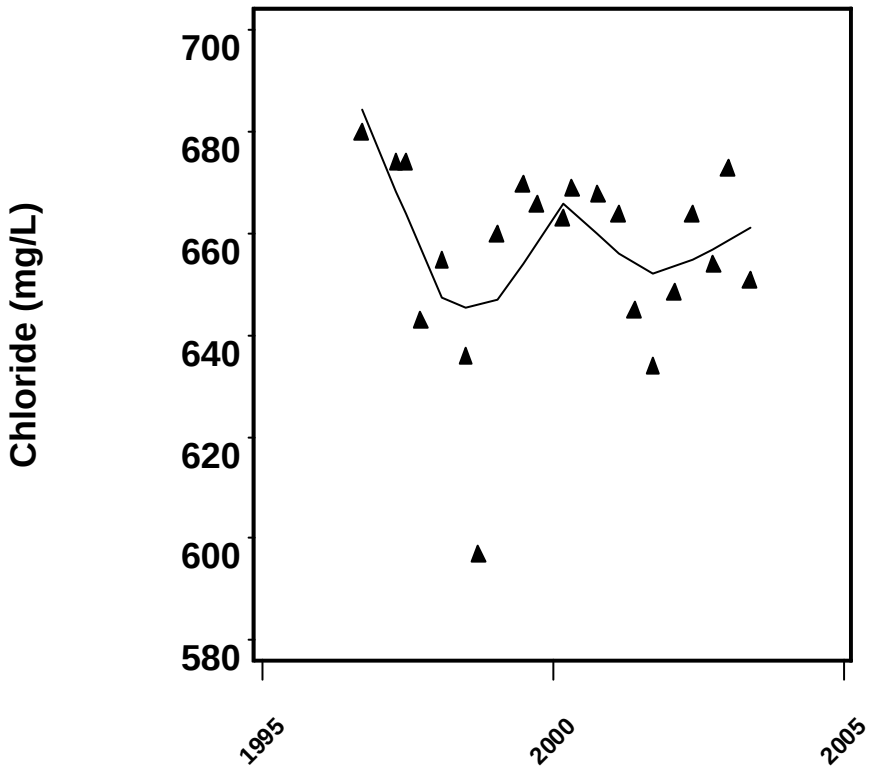


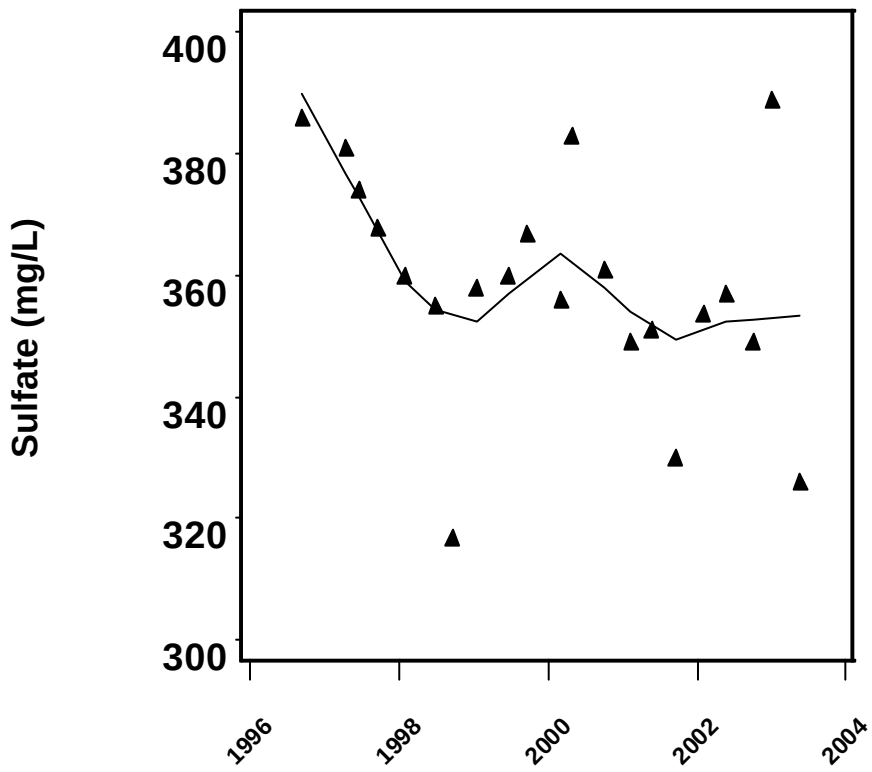
Appendix C-66. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 62 – CAMPO.



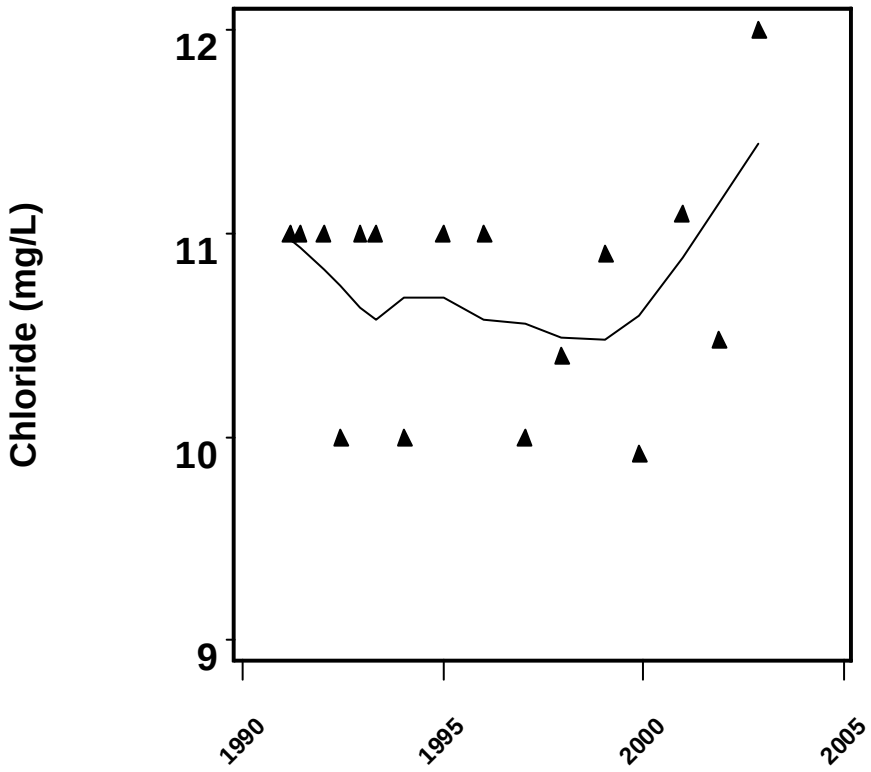


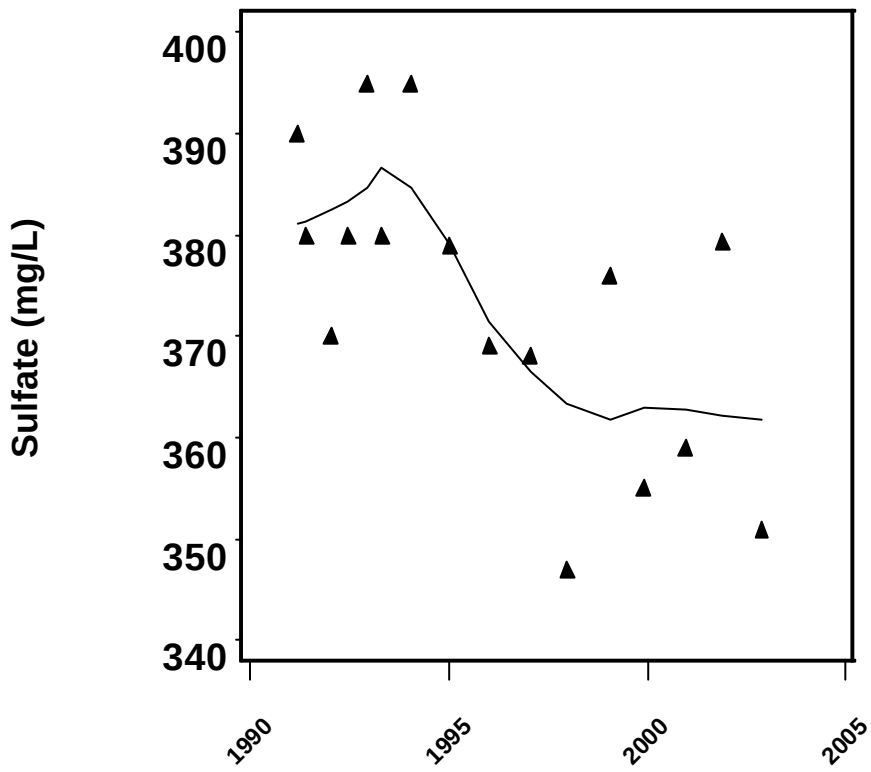
Appendix C-67. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 67-1 AVON PARK.



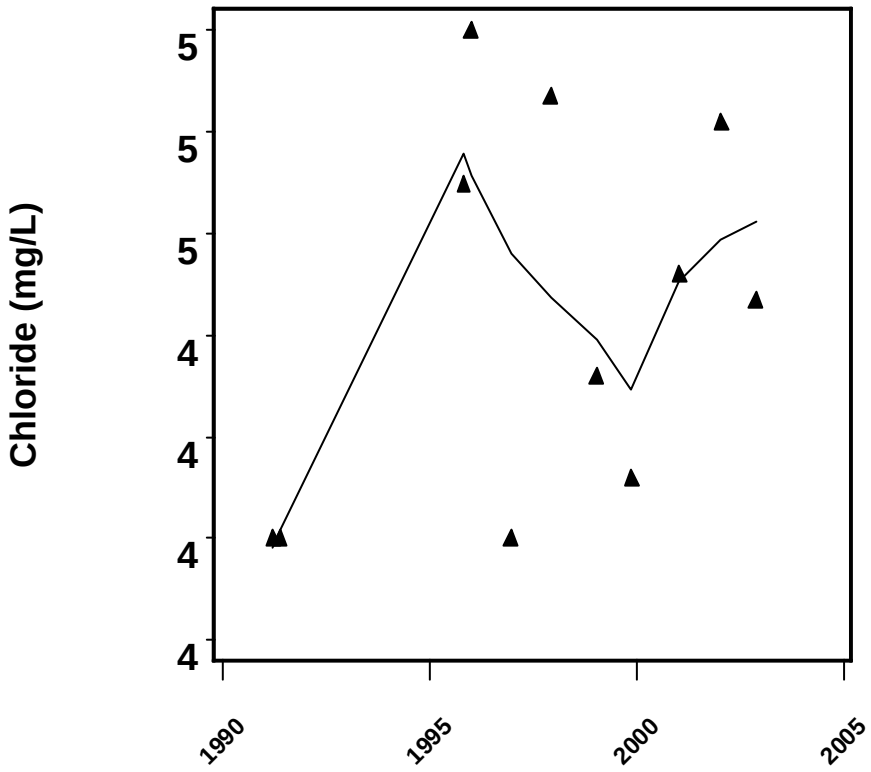


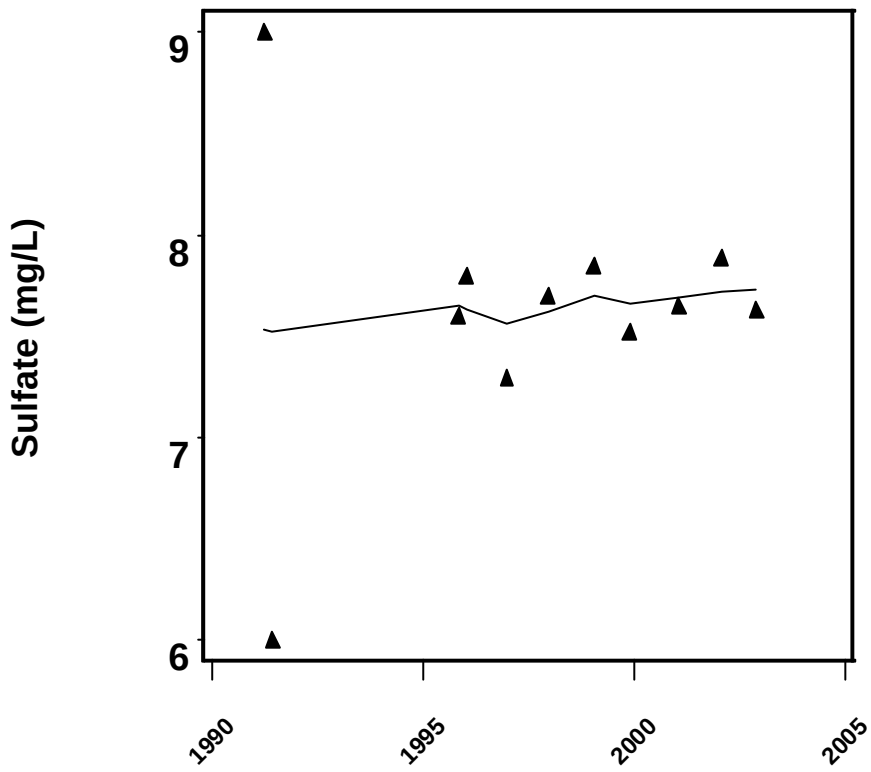
Appendix C-68. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 9 AVON PARK.



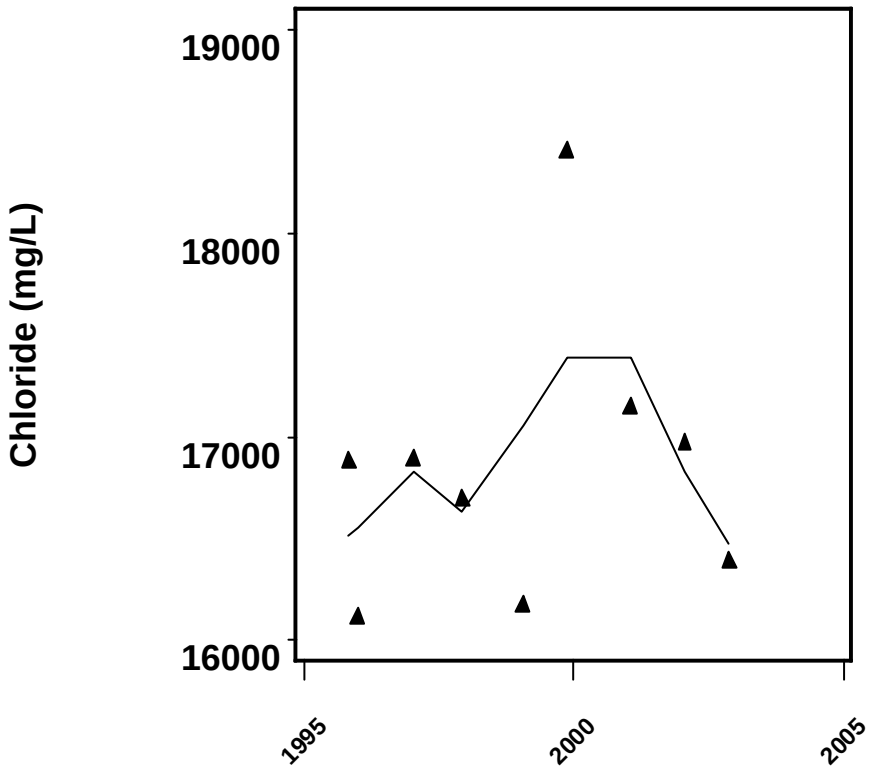


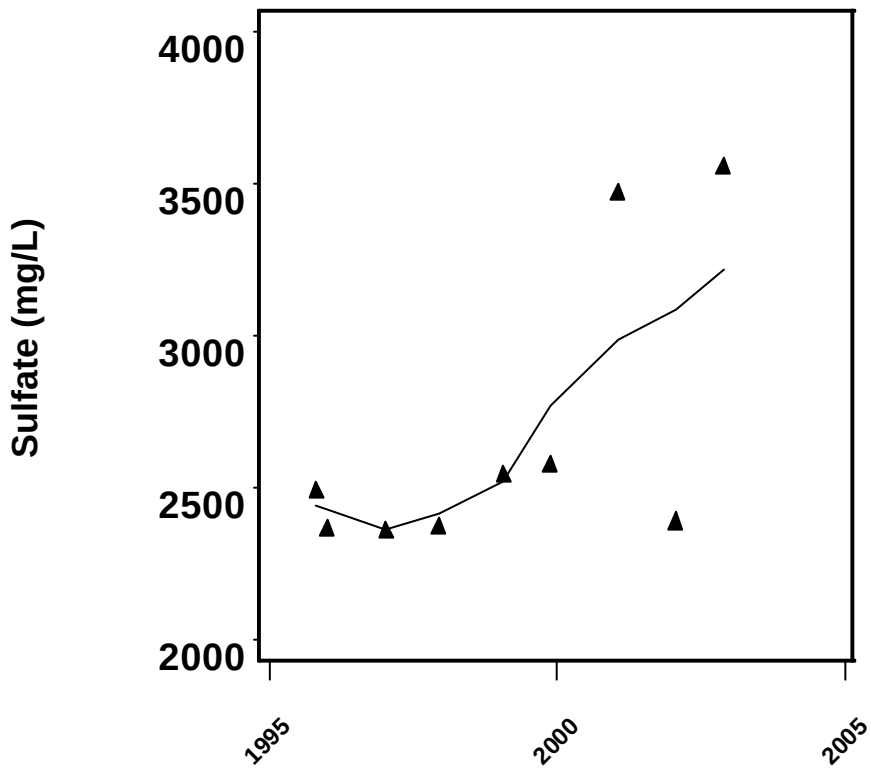
Appendix C-69. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 125 CRACKERT.



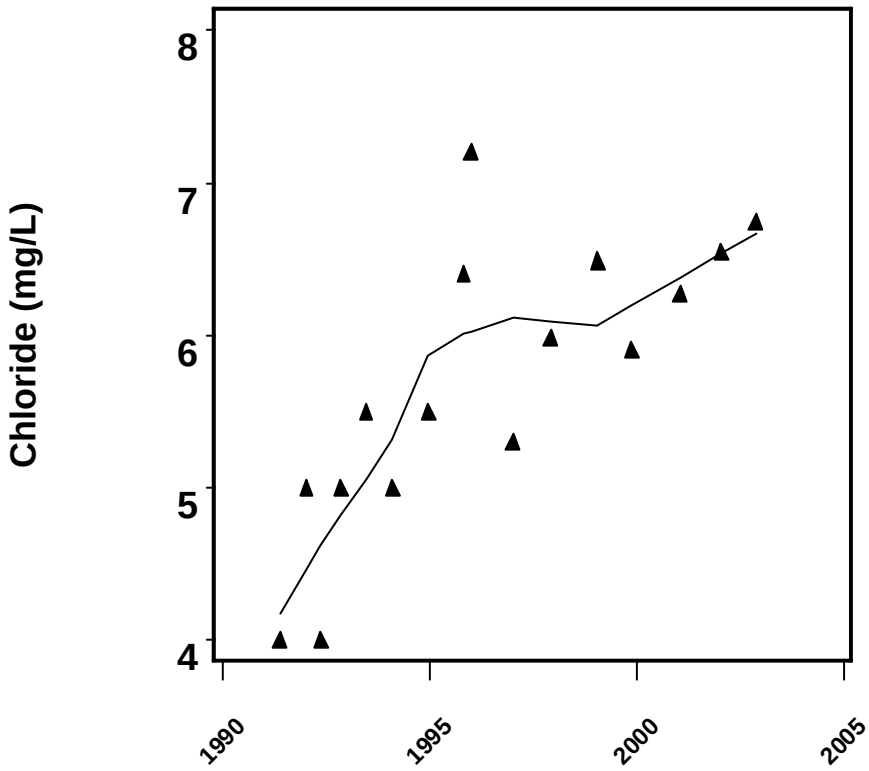


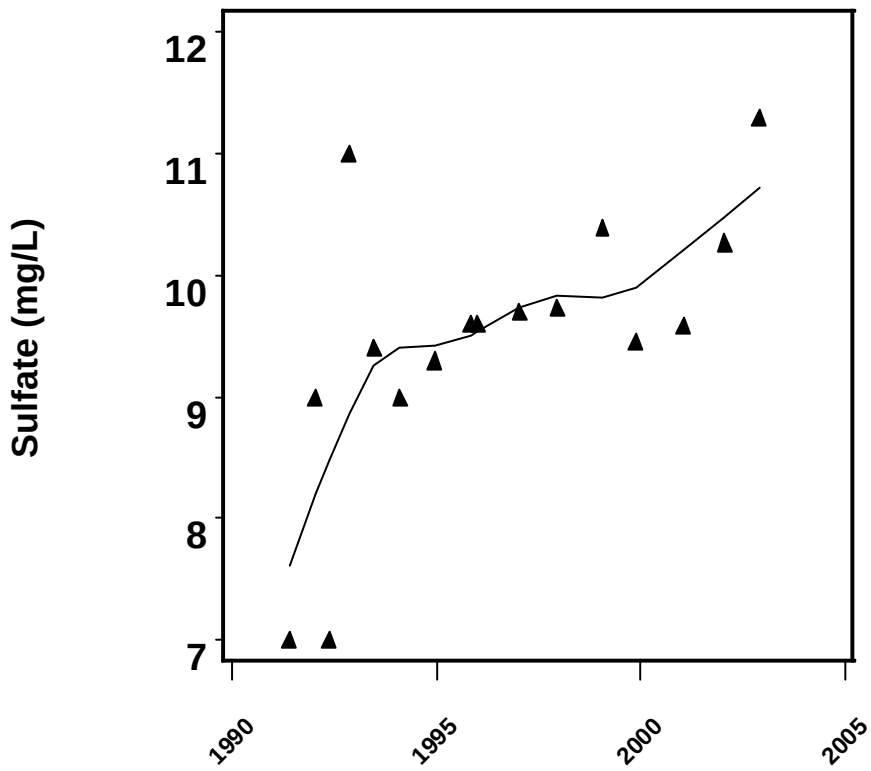
Appendix C-70. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 18-1.



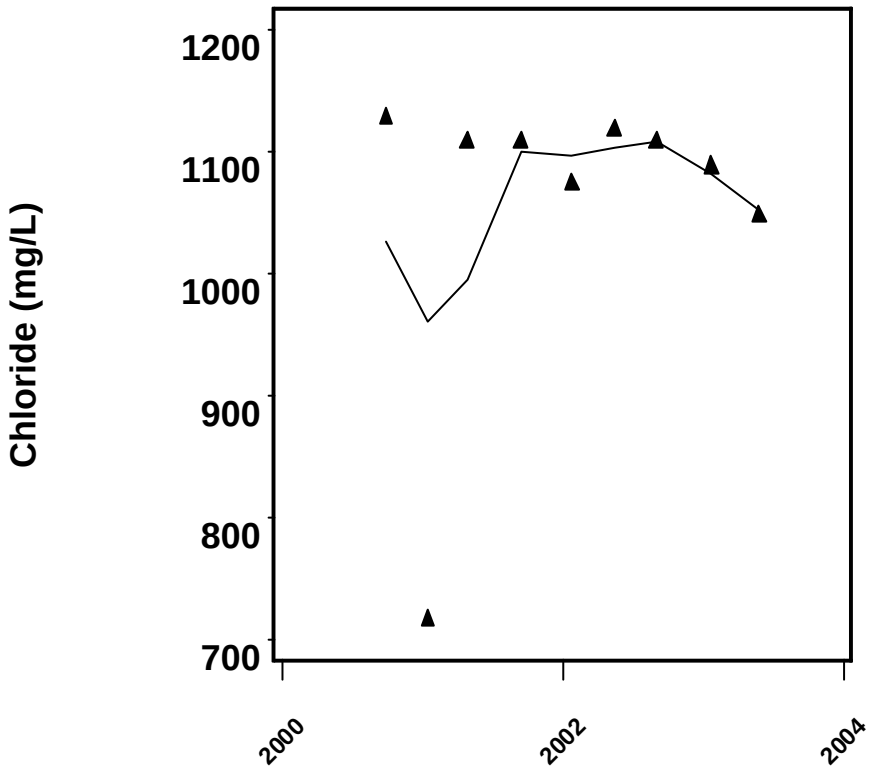


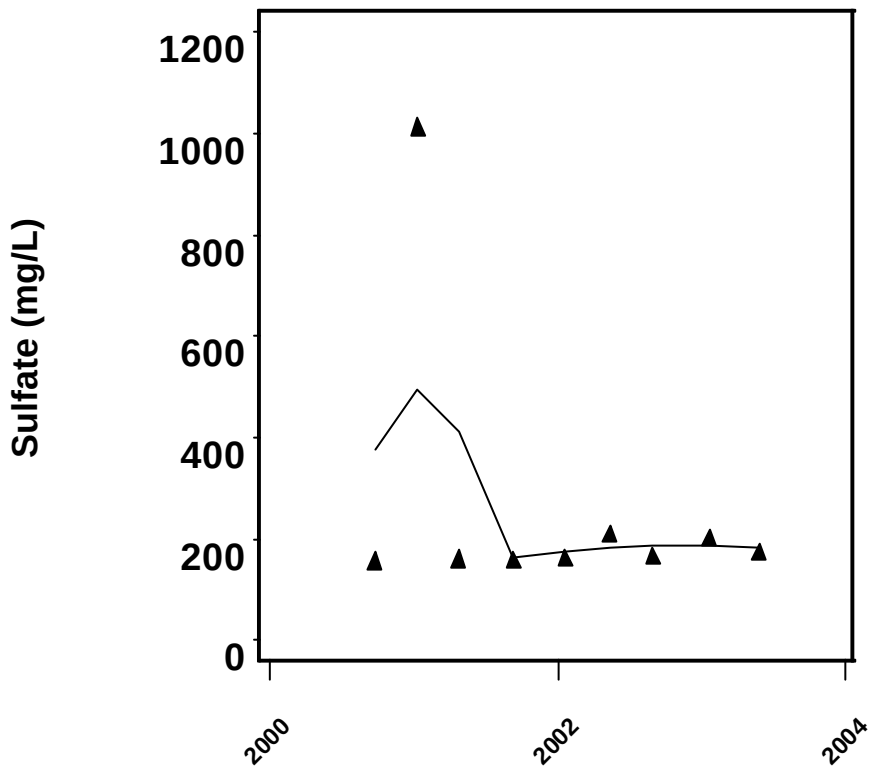
Appendix C-71. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 18-2 LOWER AV PK.



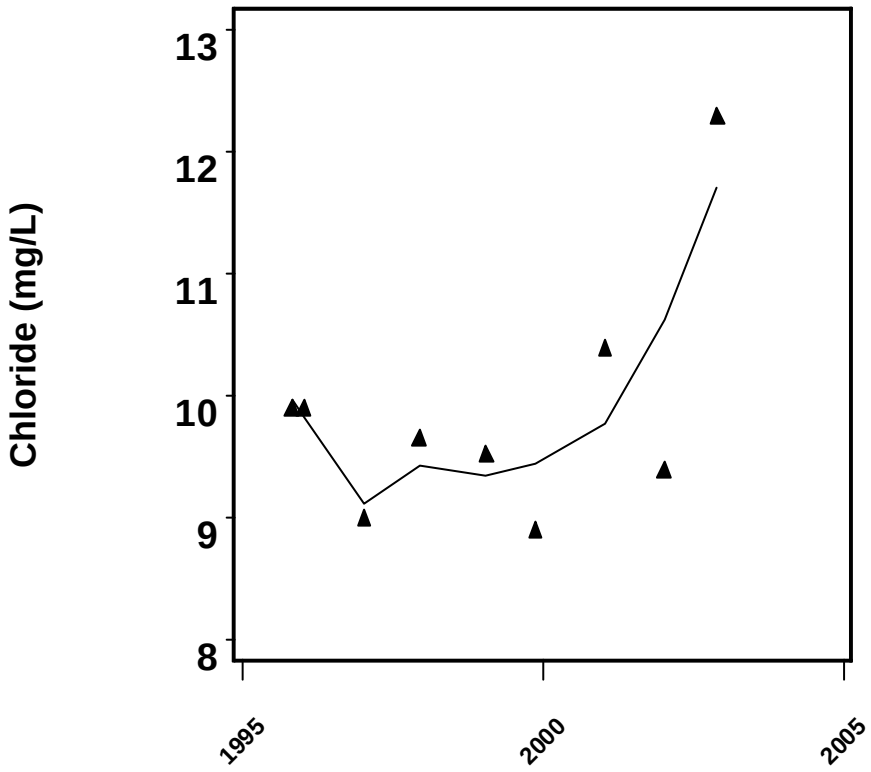


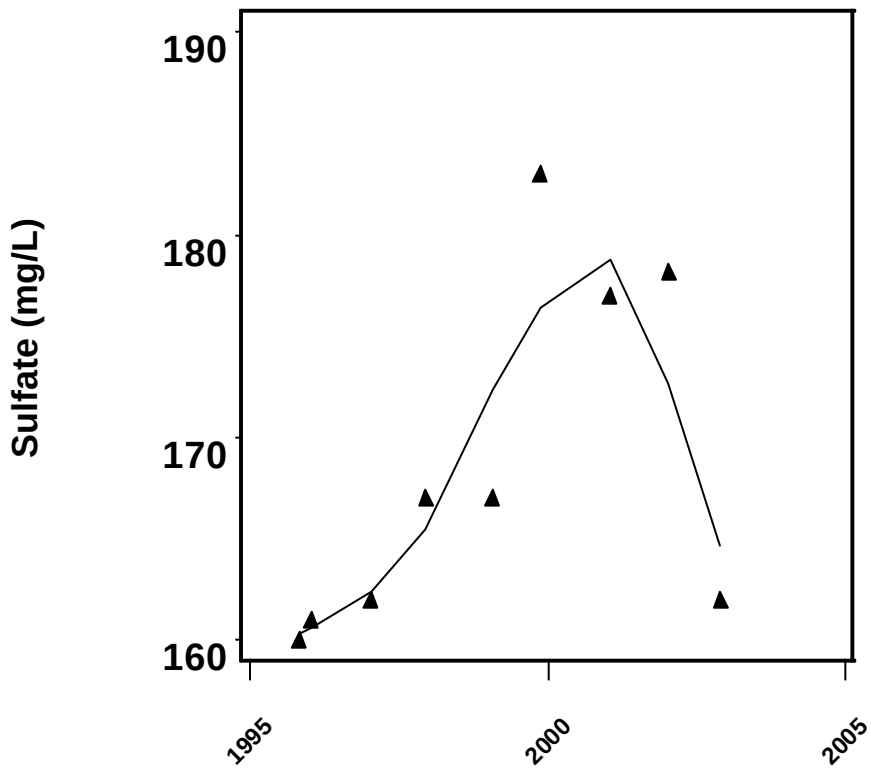
Appendix C-72. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 18-2 U AVON PARK.



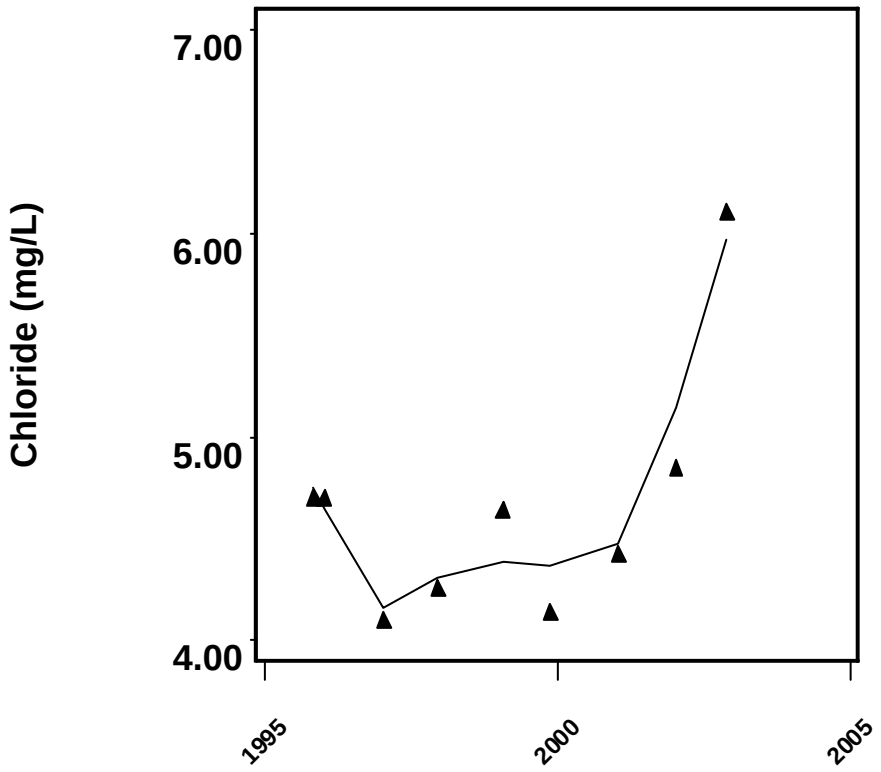


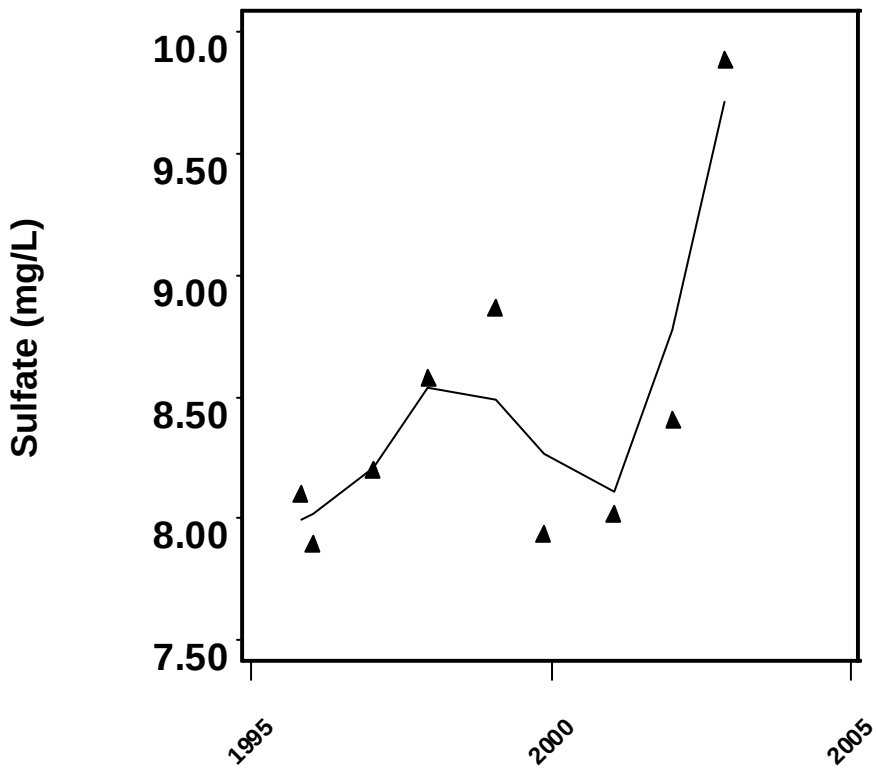
Appendix C-73. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 18-2A UFA.



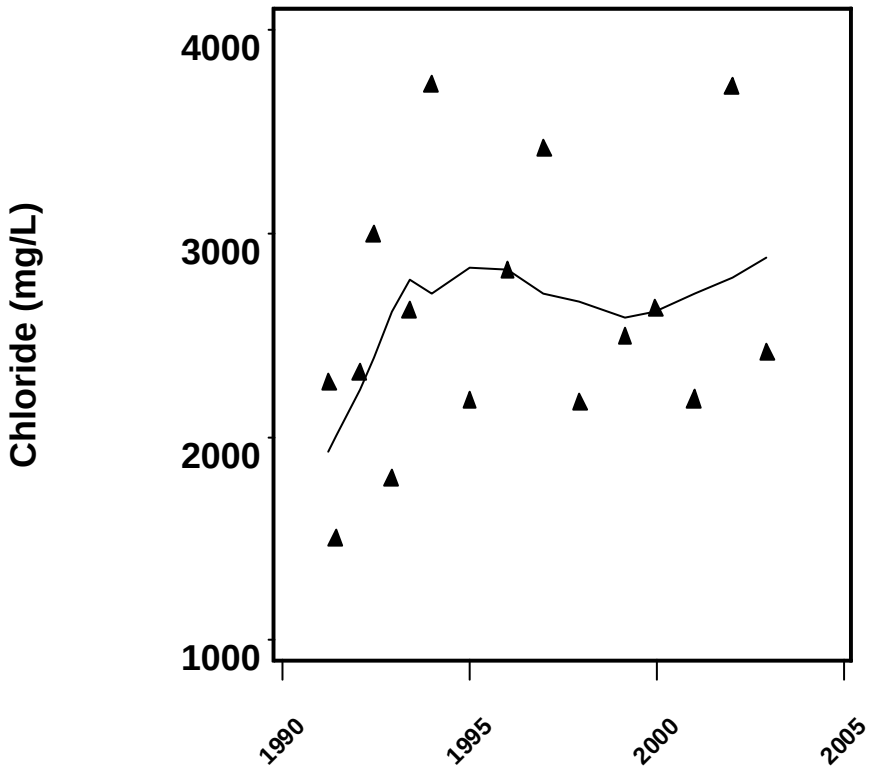


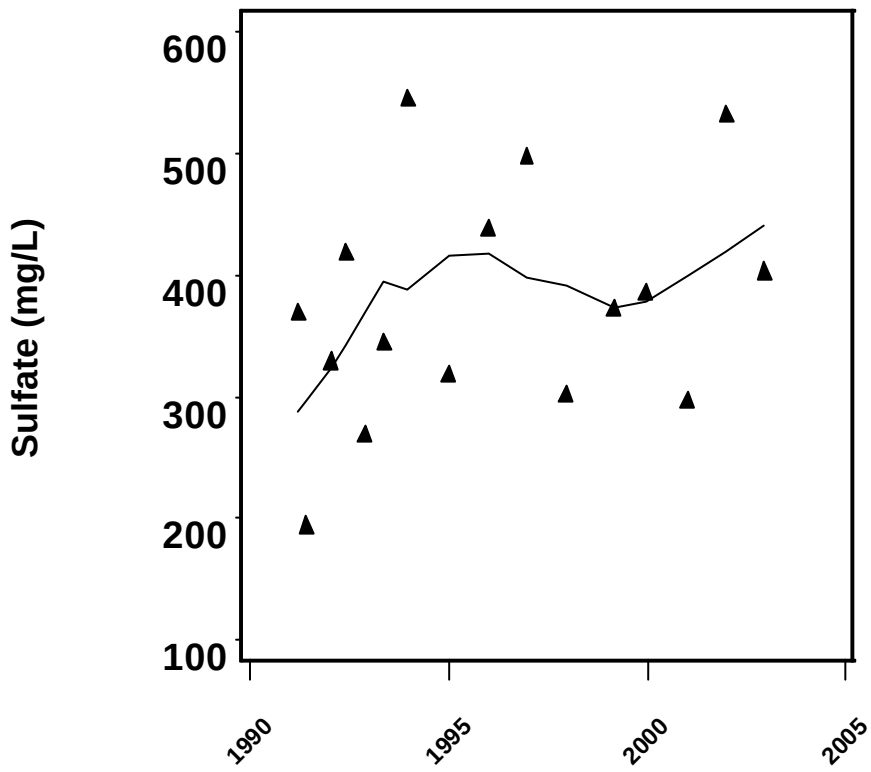
Appendix C-74. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP 18-3 L AVON PARK.



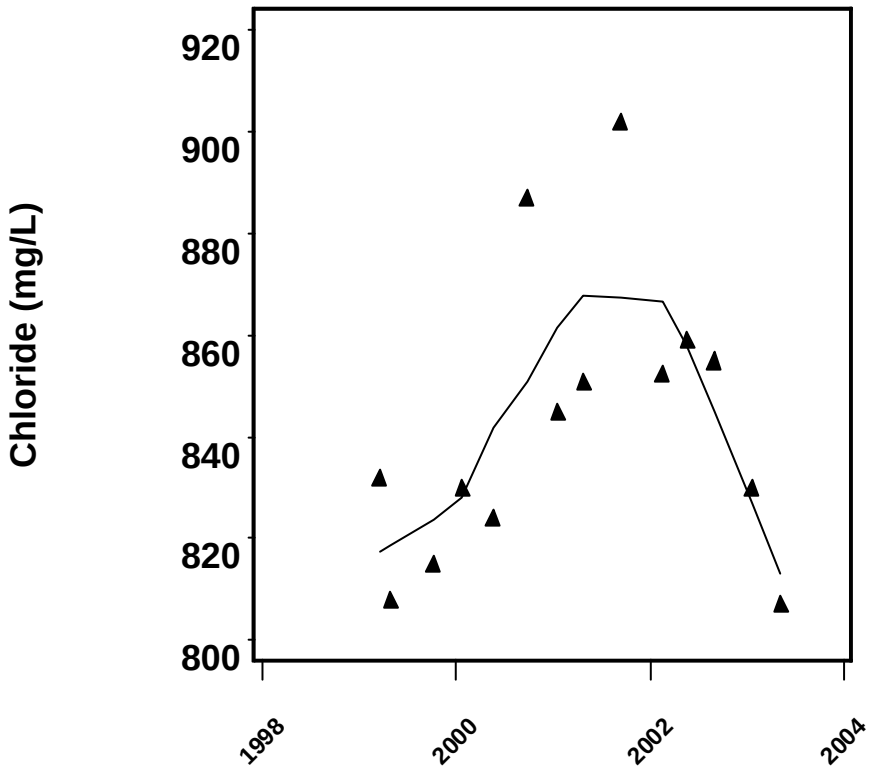


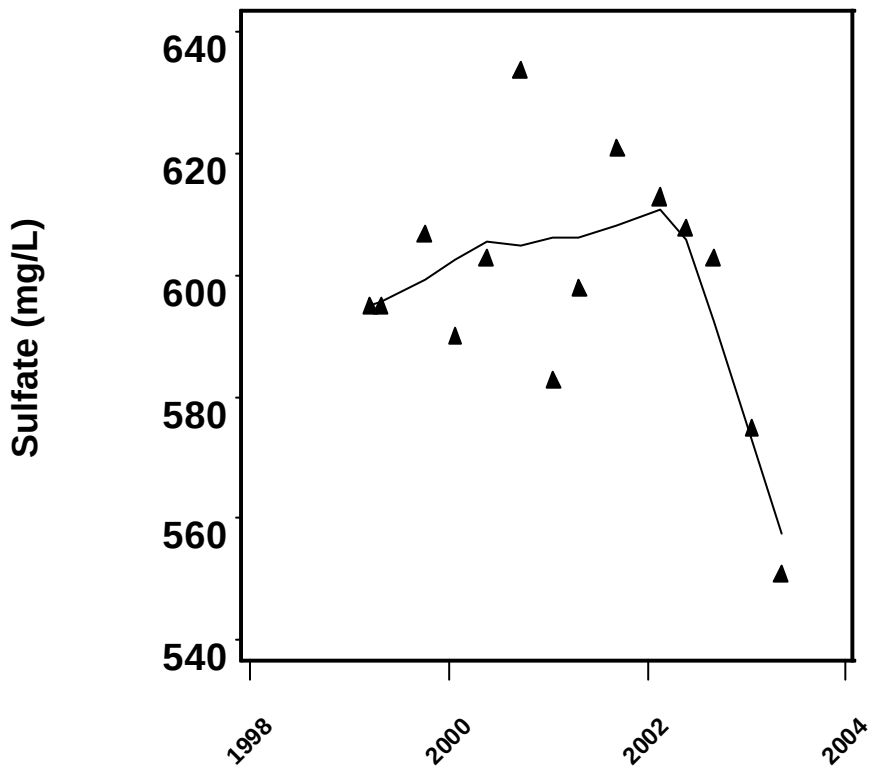
Appendix C-75. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 18-3 U AVON PARK.



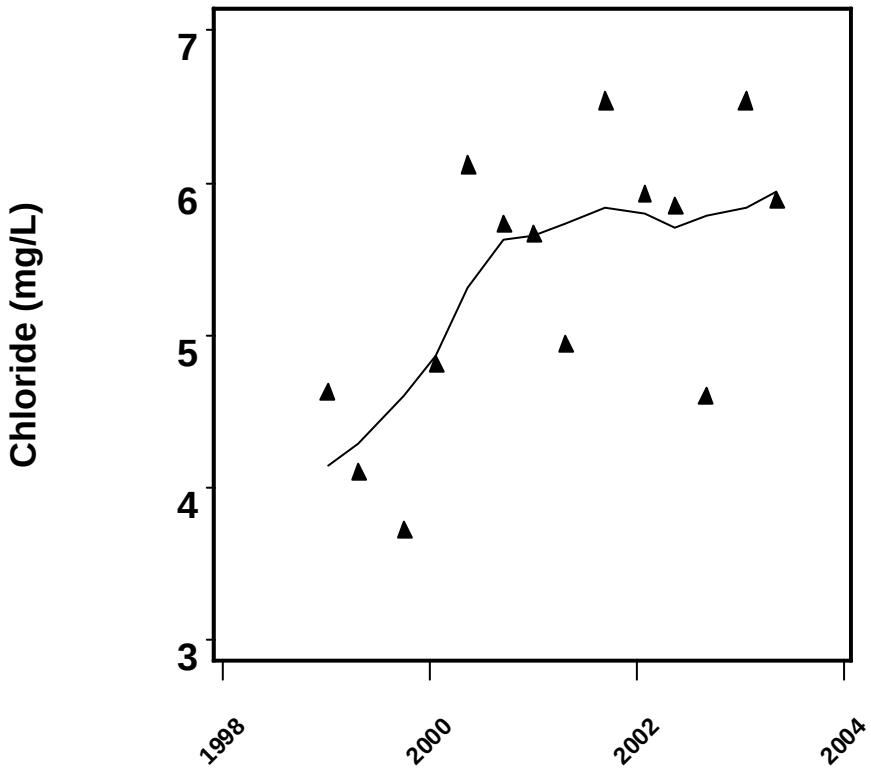


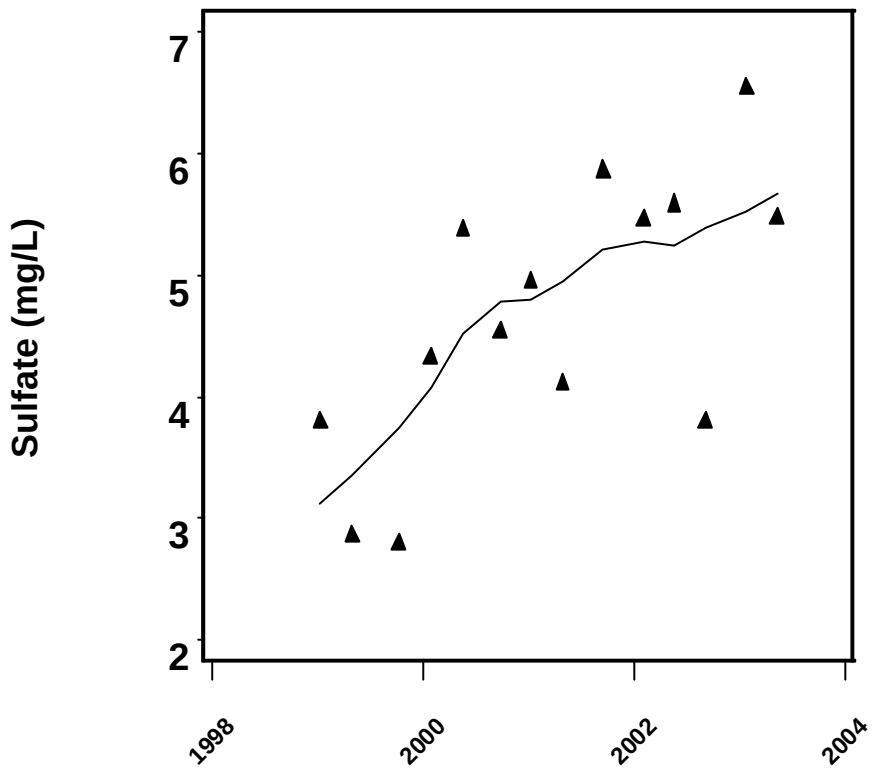
Appendix C-76. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 19-2 DEEP.



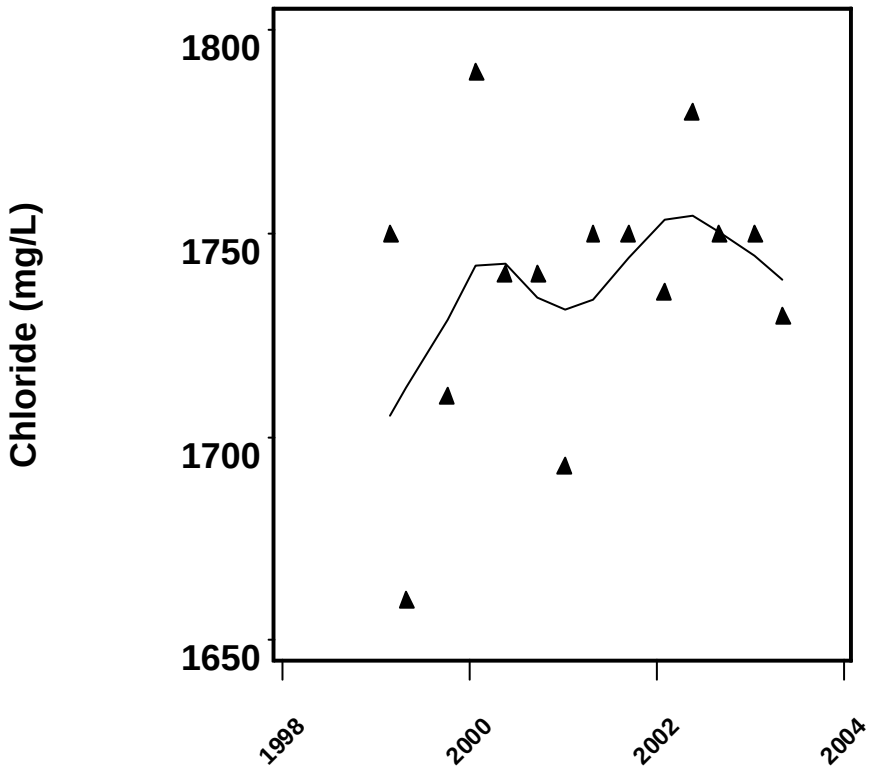


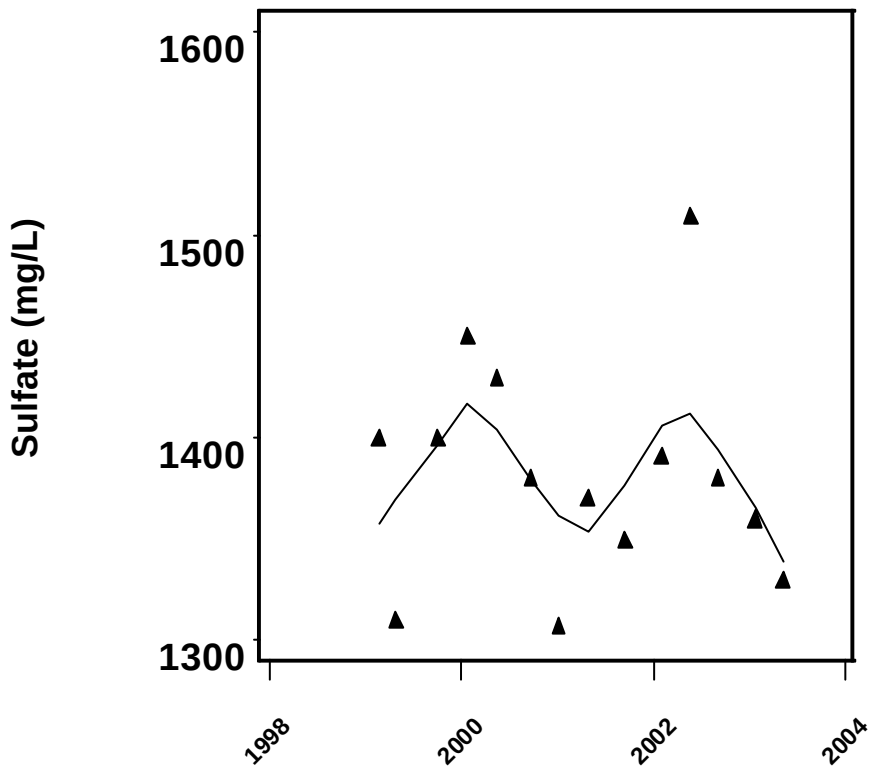
Appendix C-77. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 20-2.



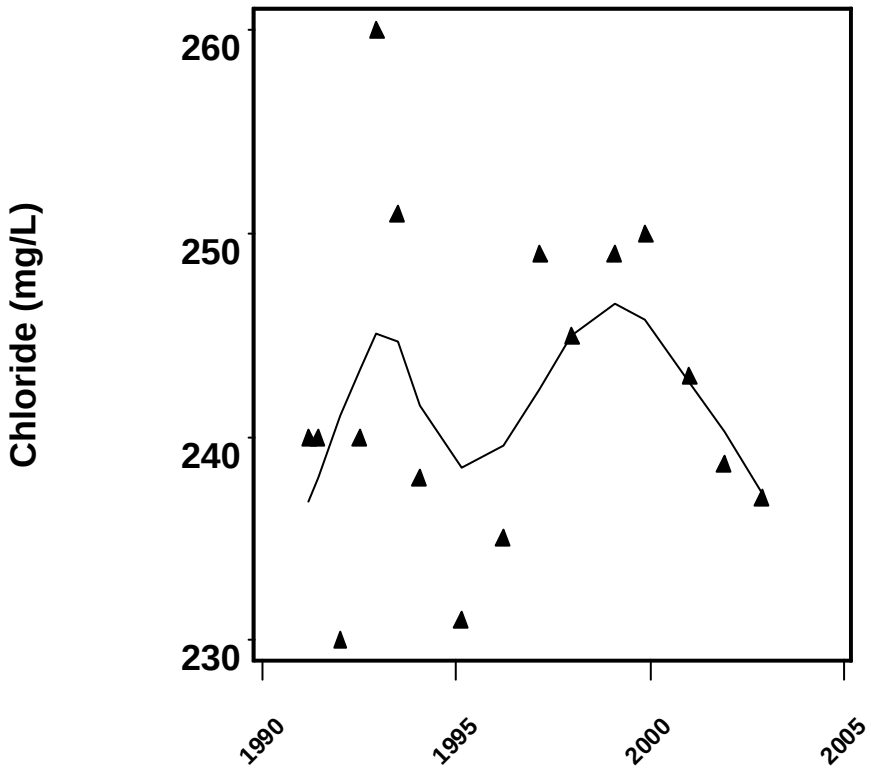


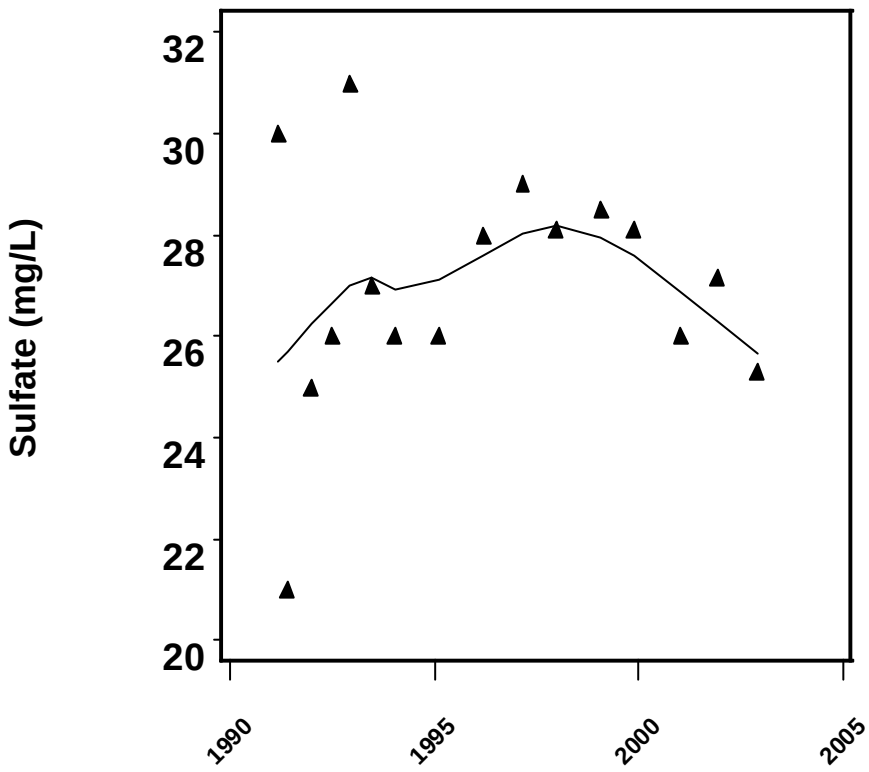
Appendix C-78. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 20-3 UFM.



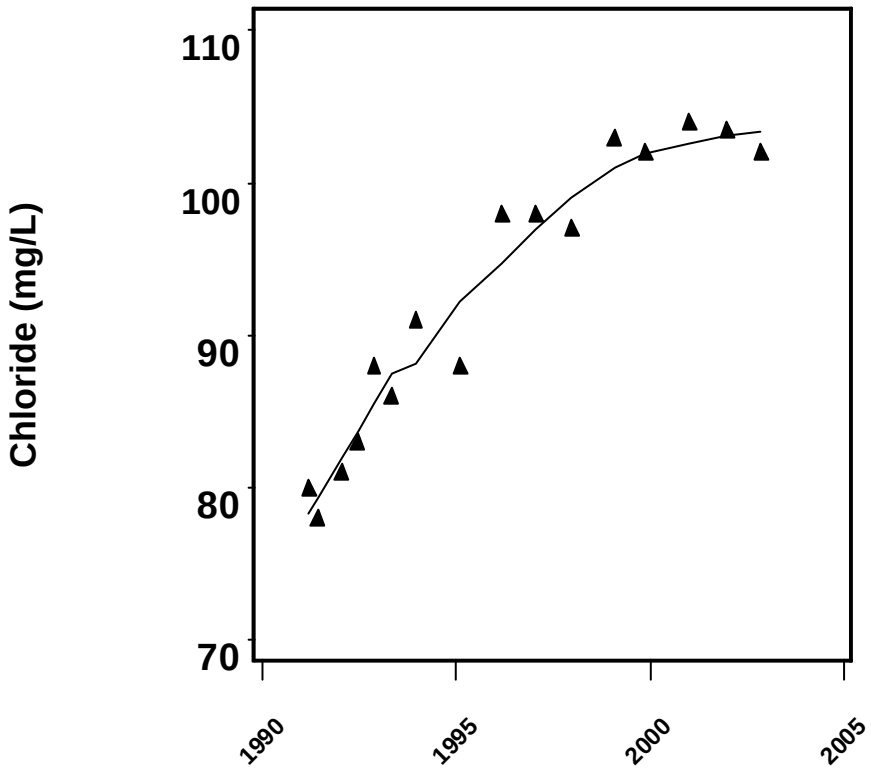


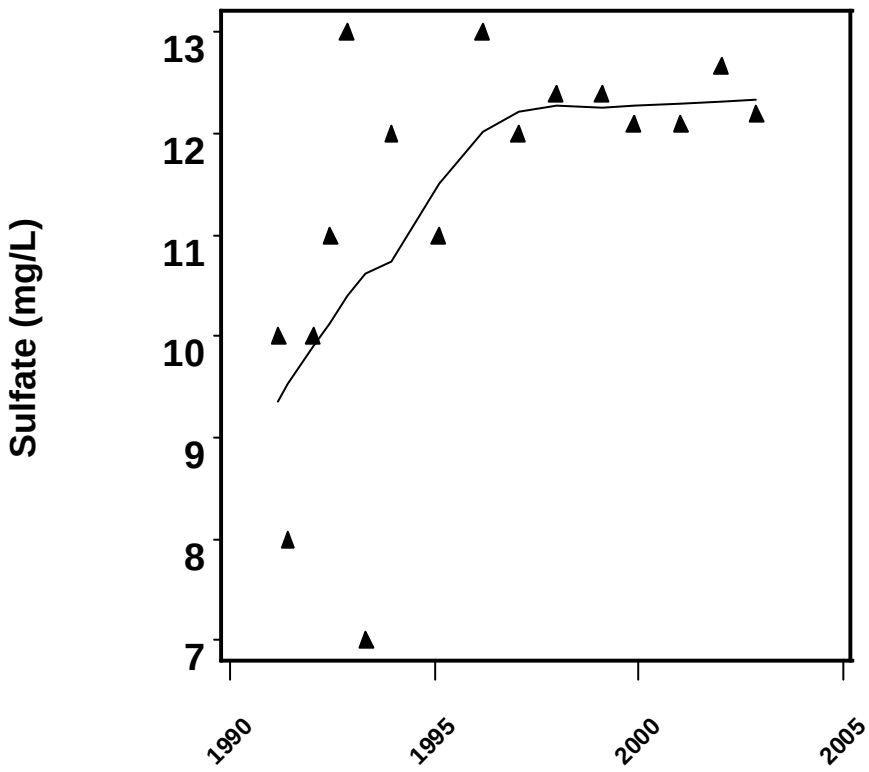
Appendix C-79. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 20-3 UFWQM.



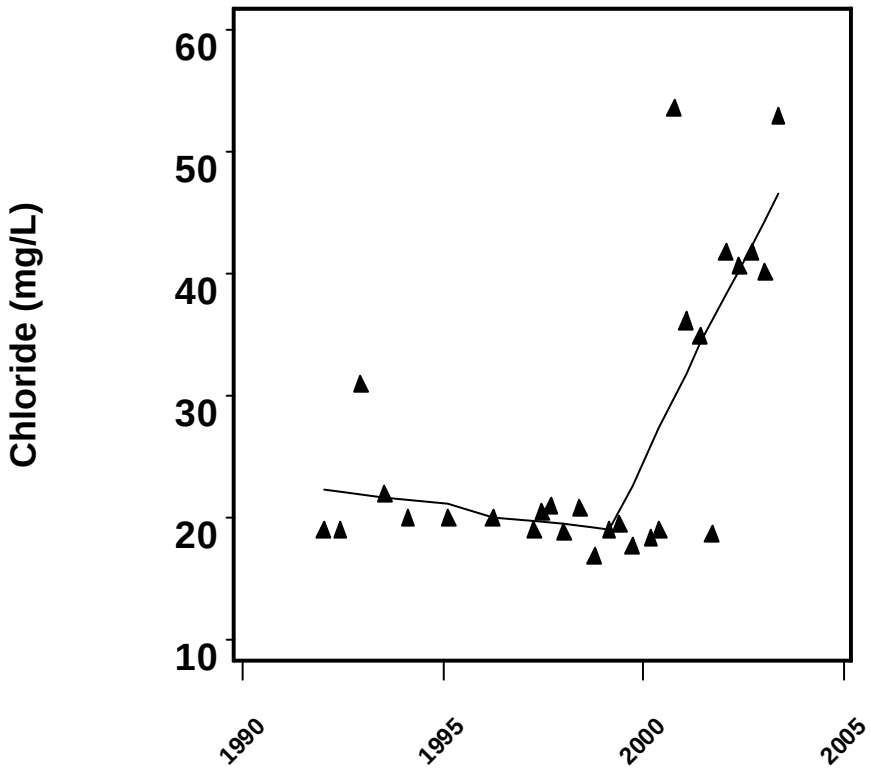


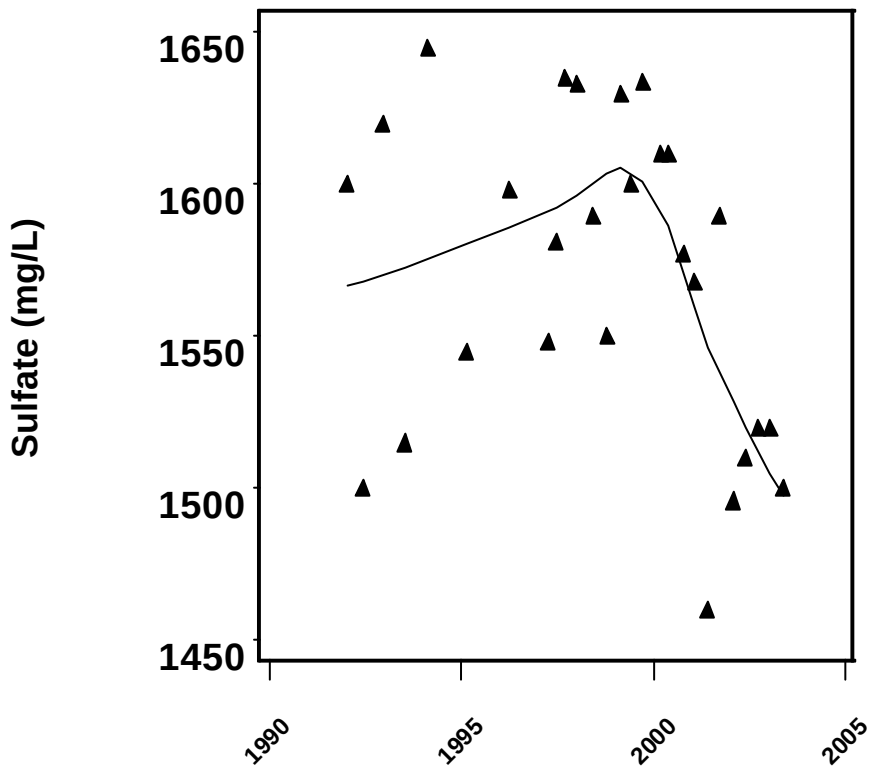
Appendix C-80. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 21-2 DEEP.



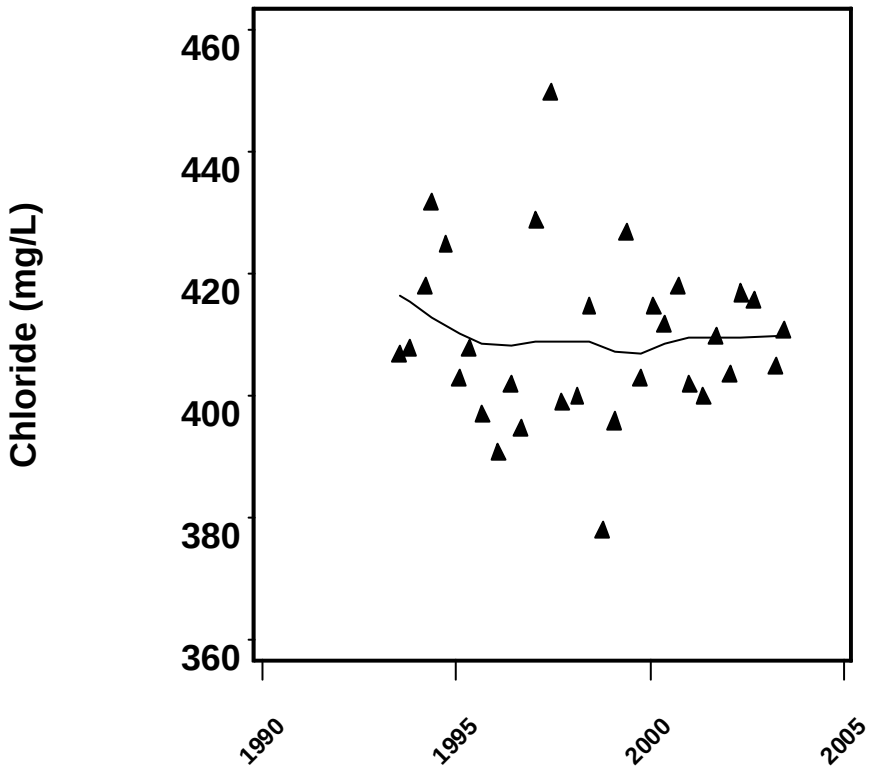


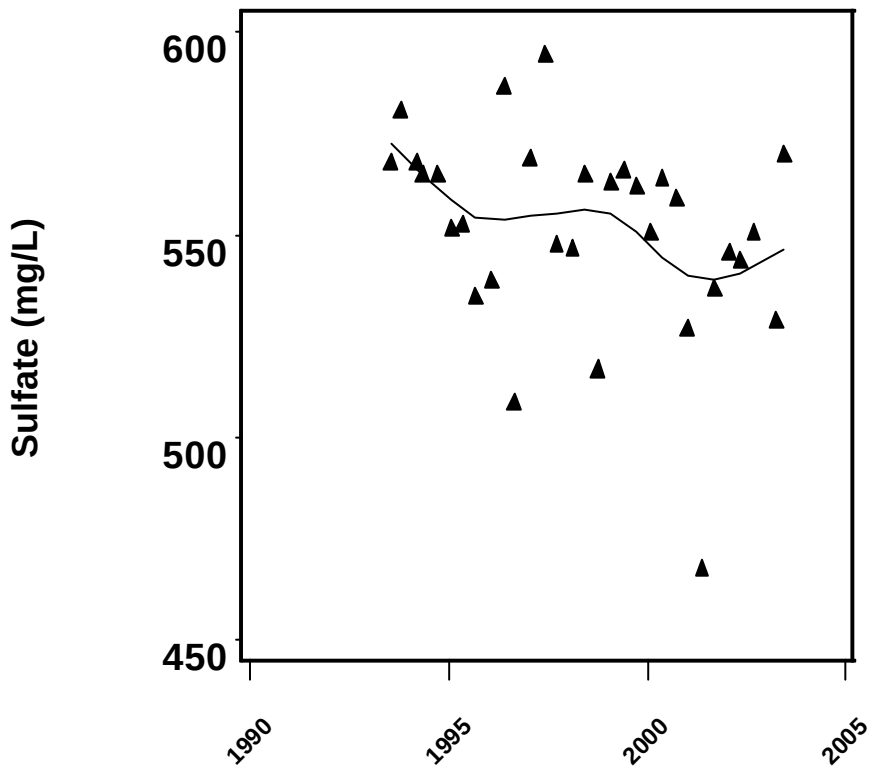
Appendix C-81. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 21-3 AVON PARK.



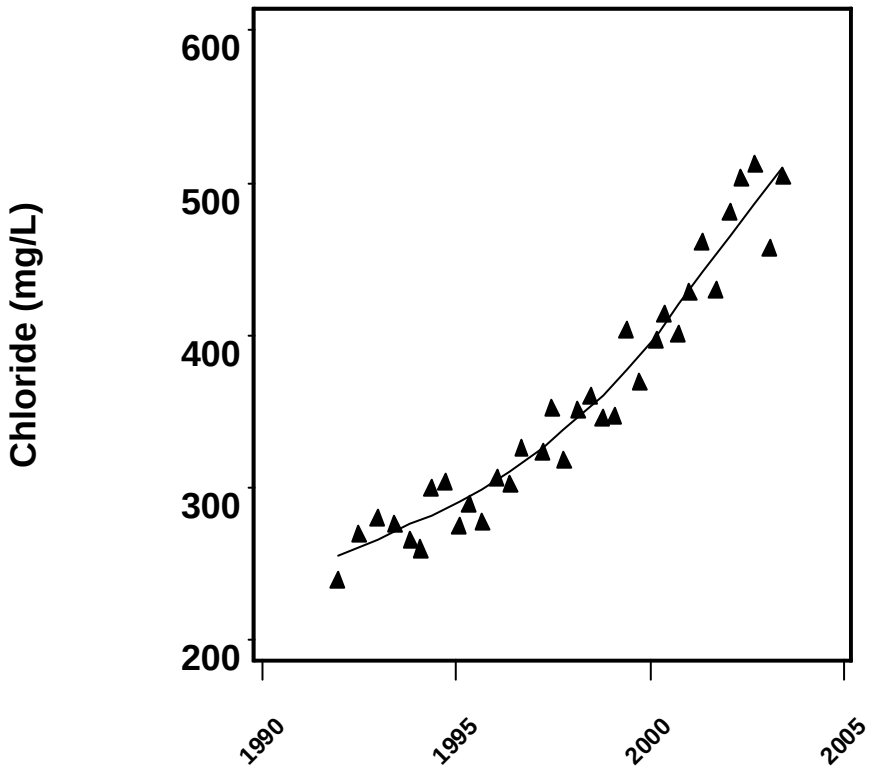


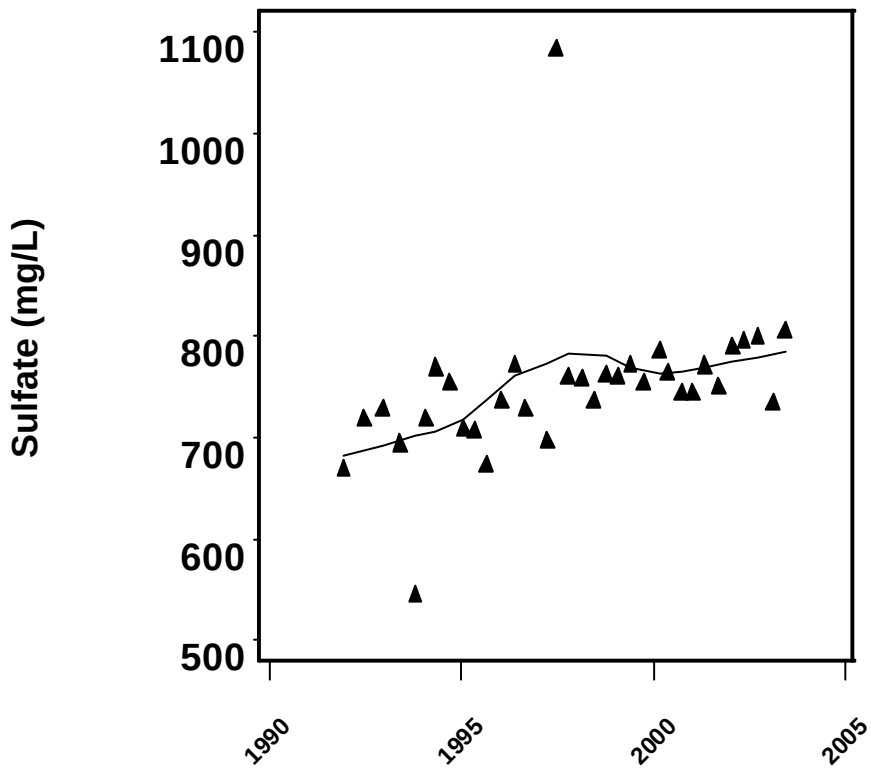
Appendix C-82. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 5-2 OCALA.



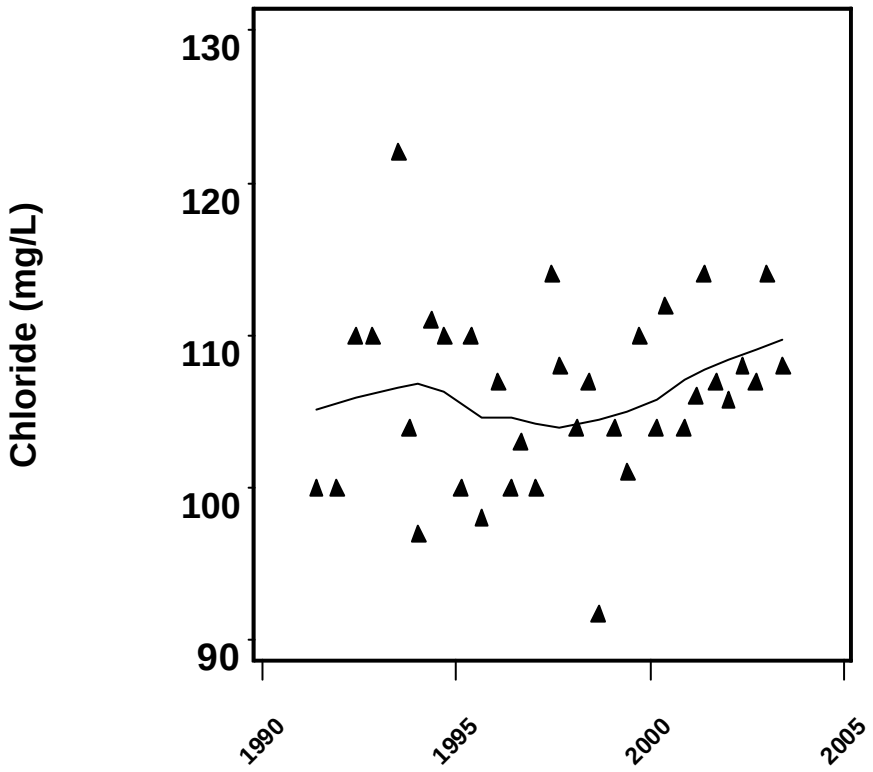


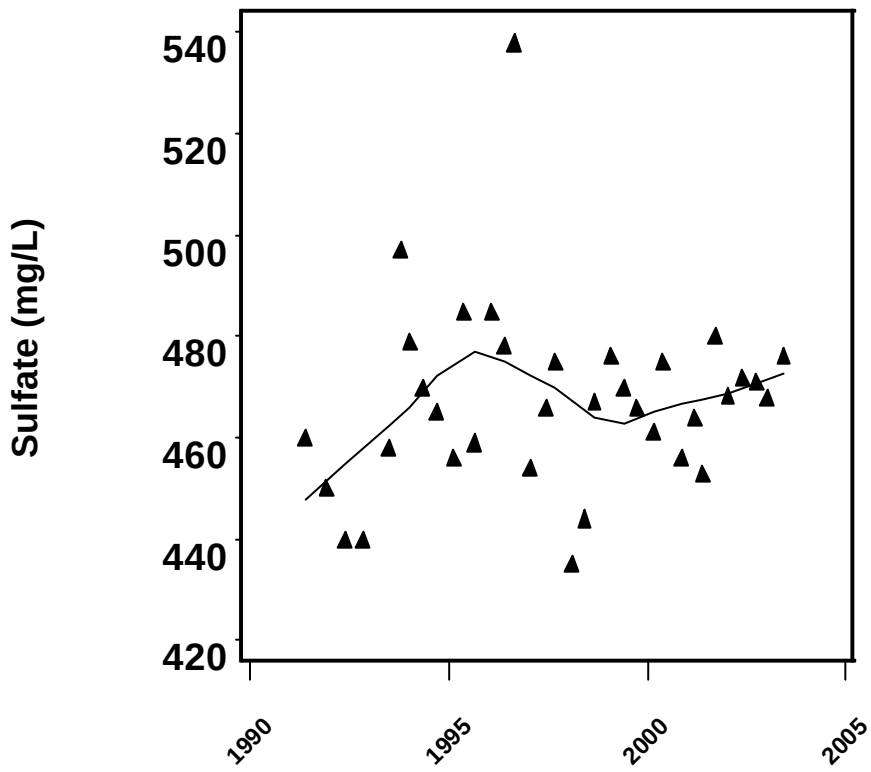
Appendix C-83. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-2 DEEP FL.



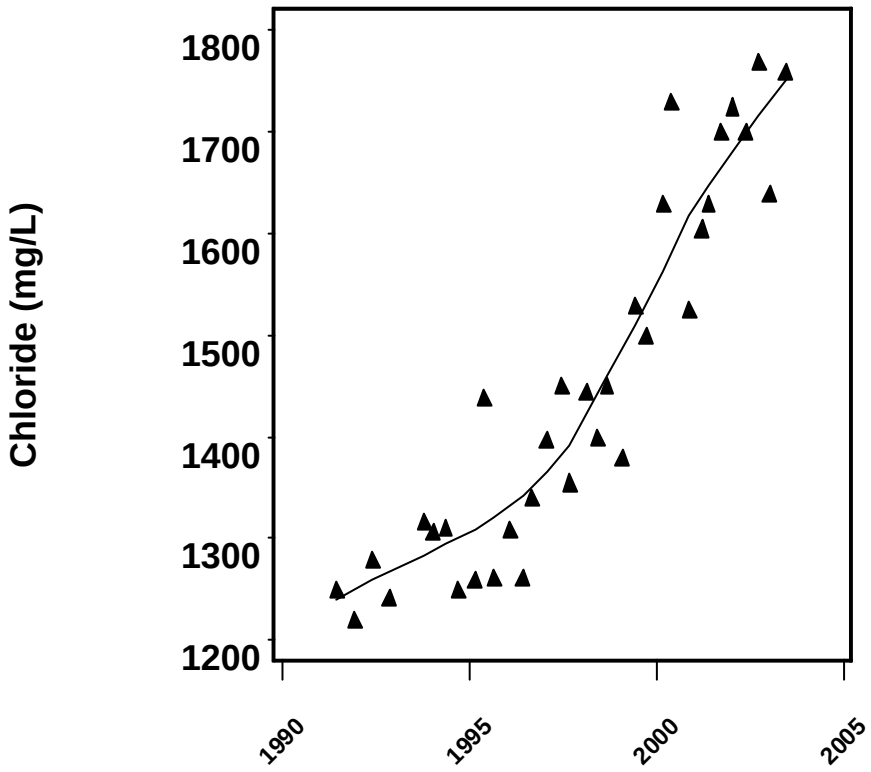


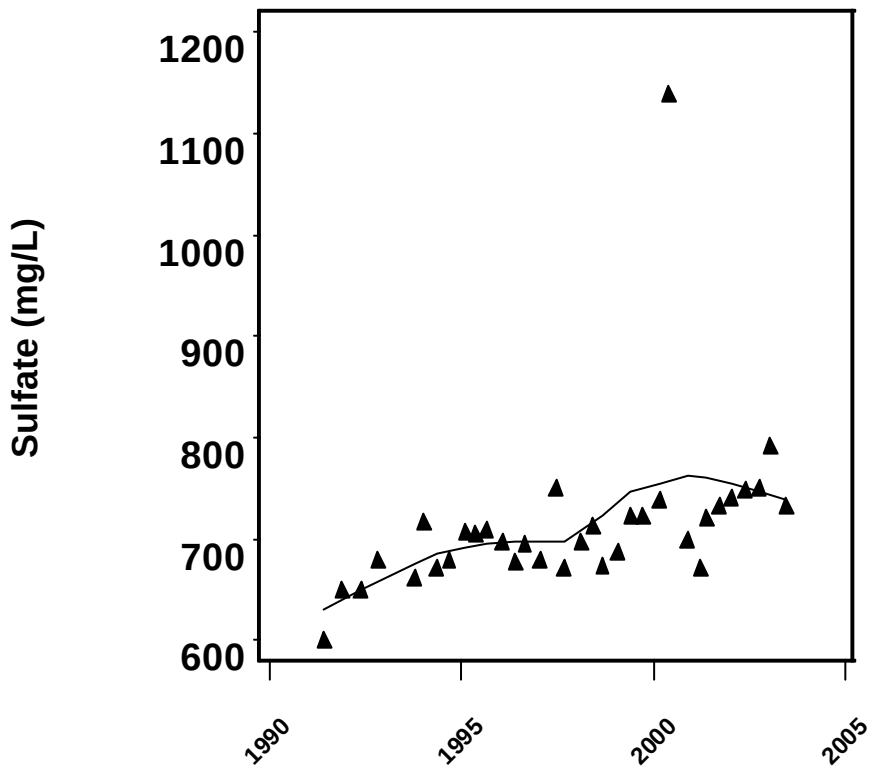
Appendix C-84. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 7-4 AP.



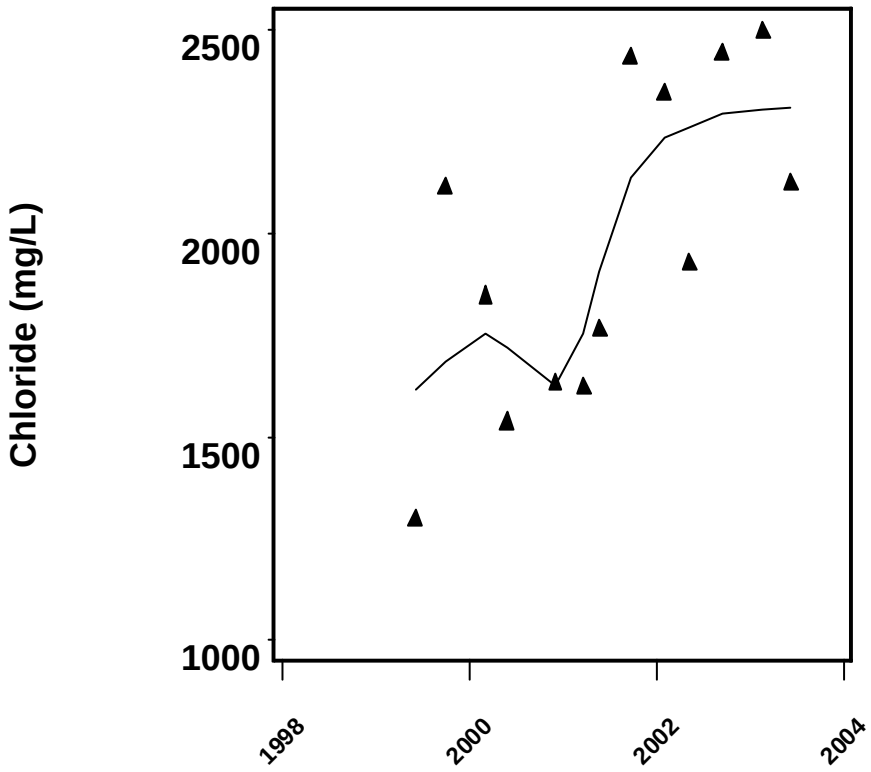


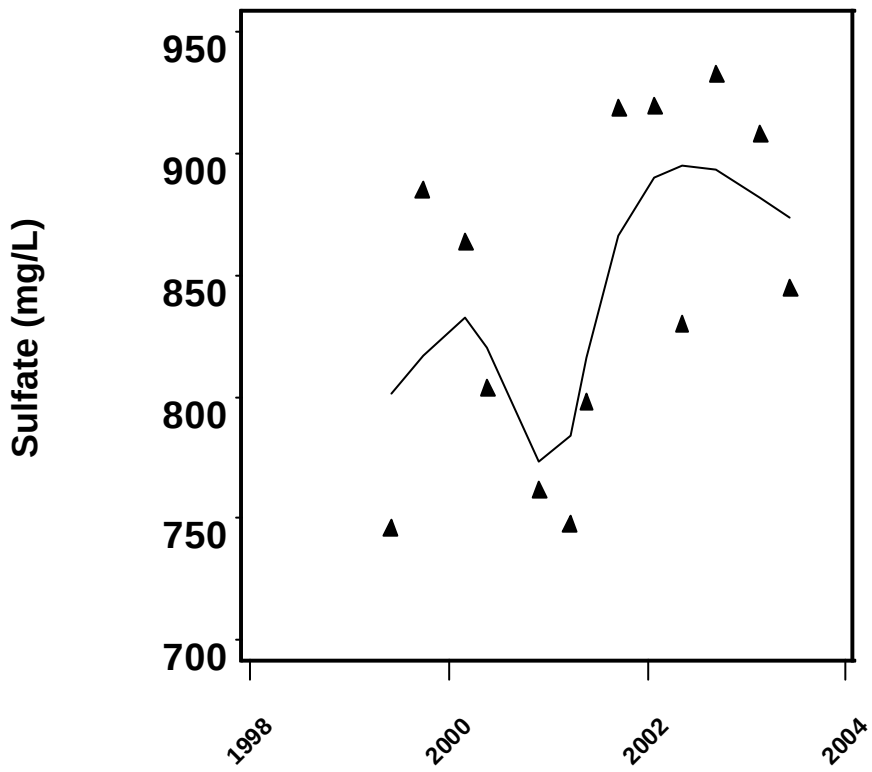
Appendix C-85. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 8-1 OCALA.



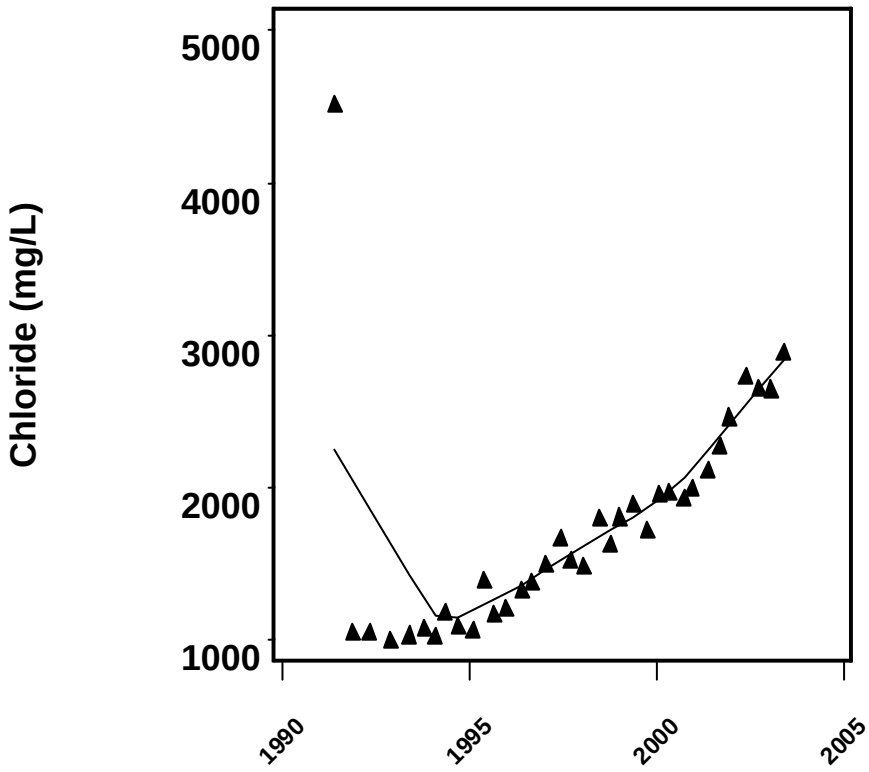


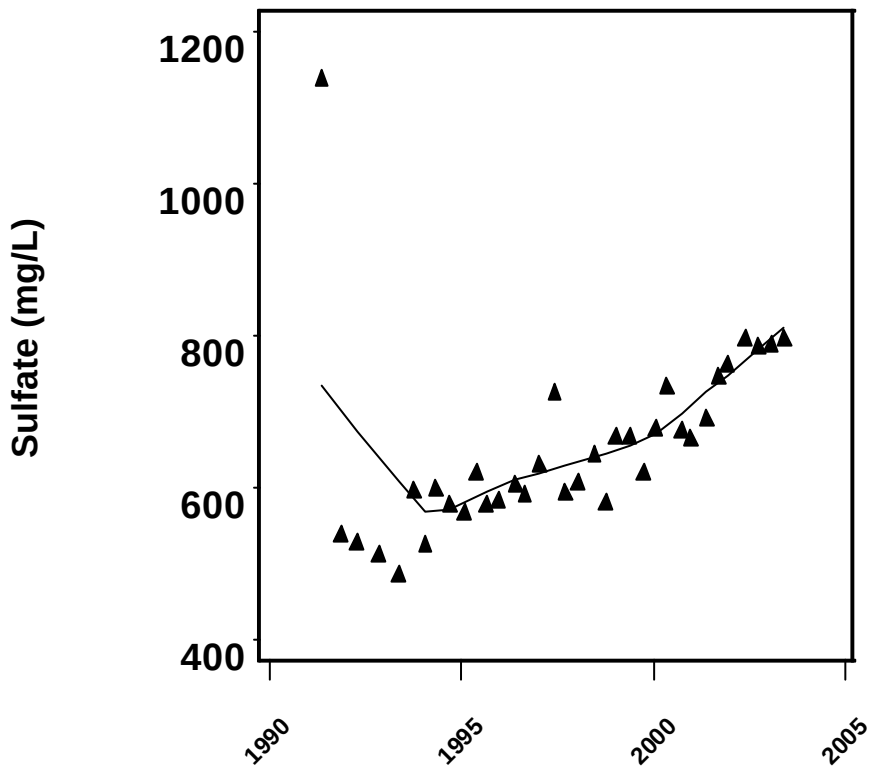
Appendix C-86. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 8-1 U AV PK.



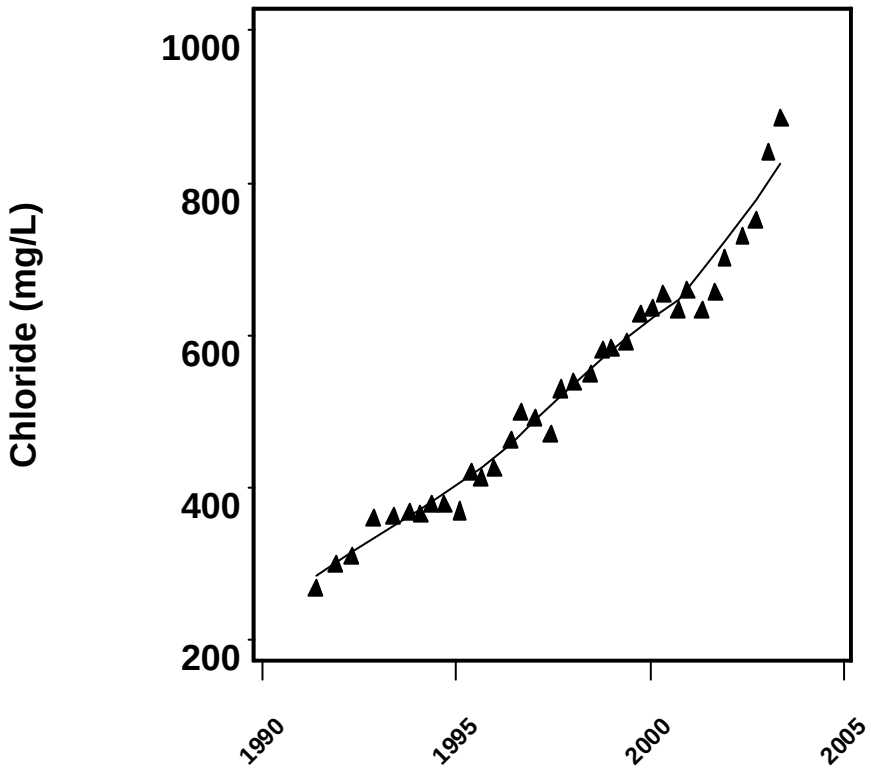


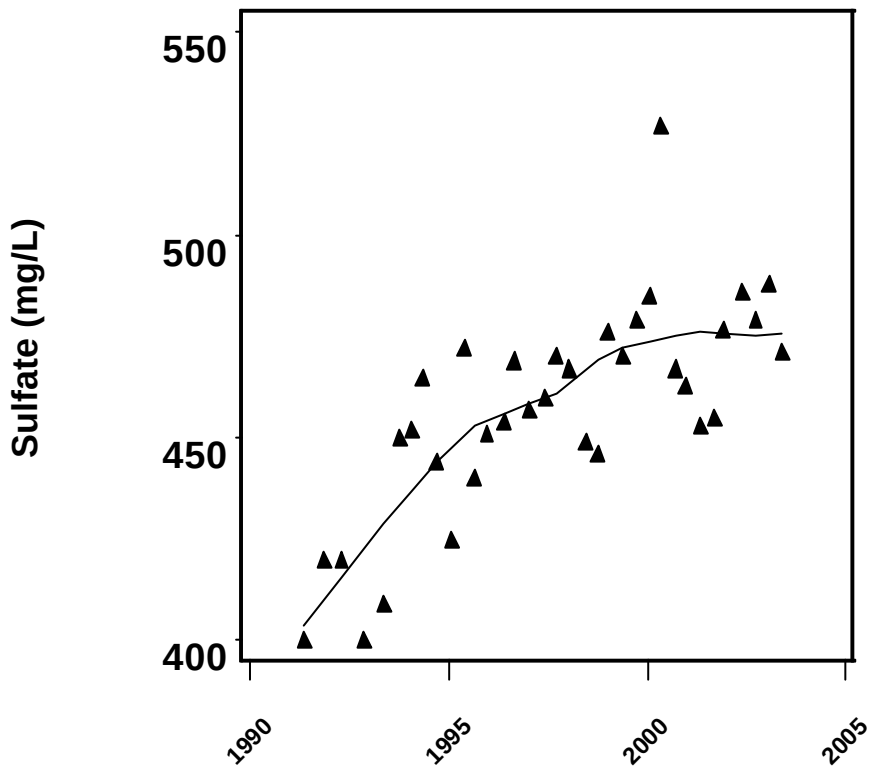
Appendix C-87. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 8-2 AVON PARK.



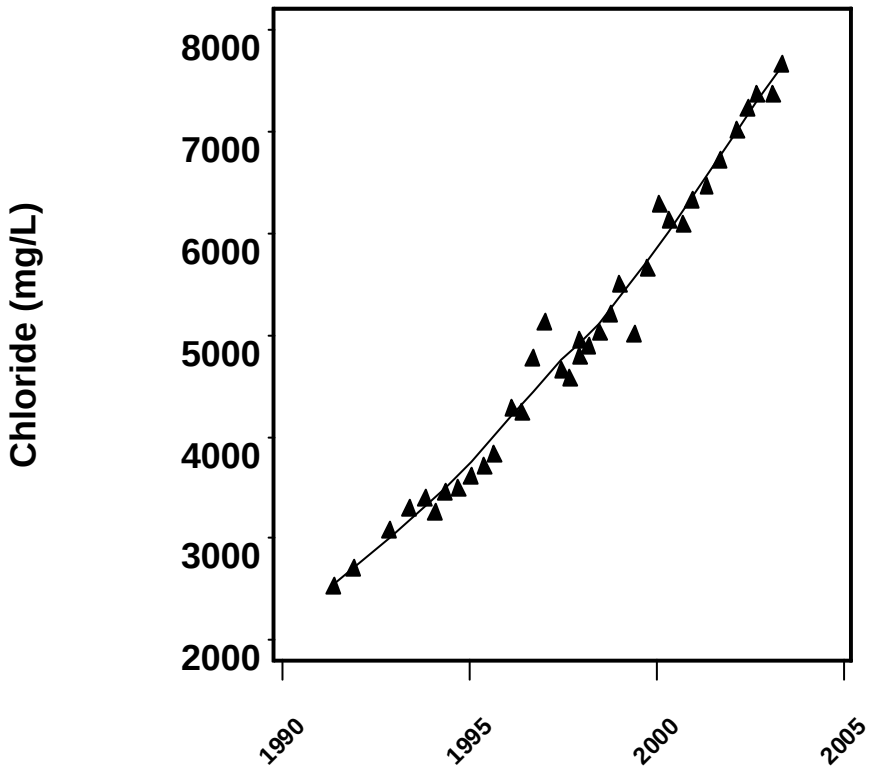


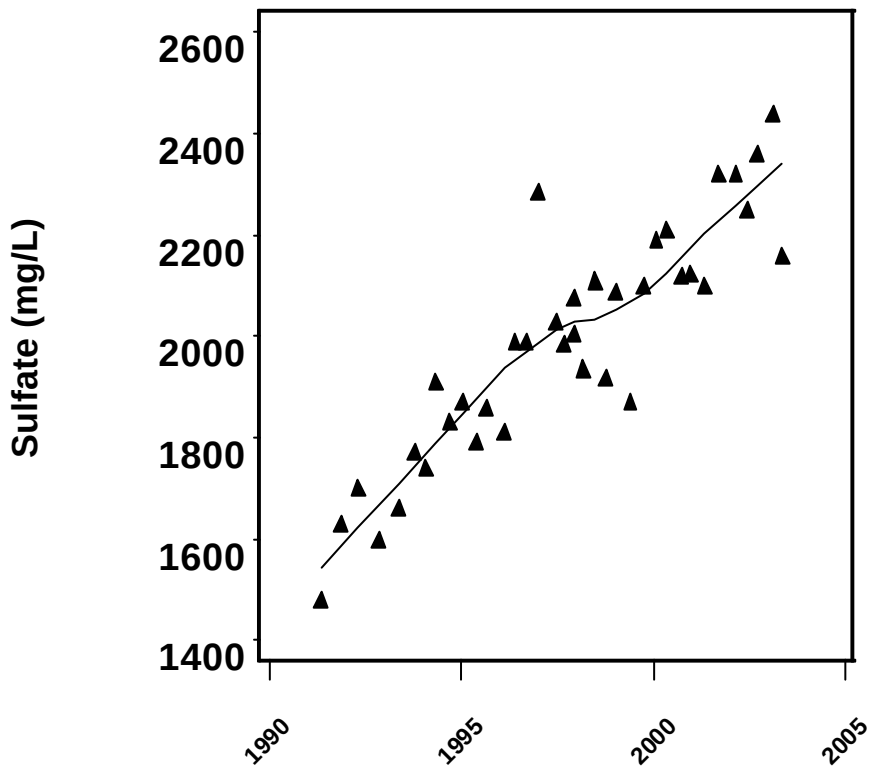
Appendix C-88. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-2 AP.



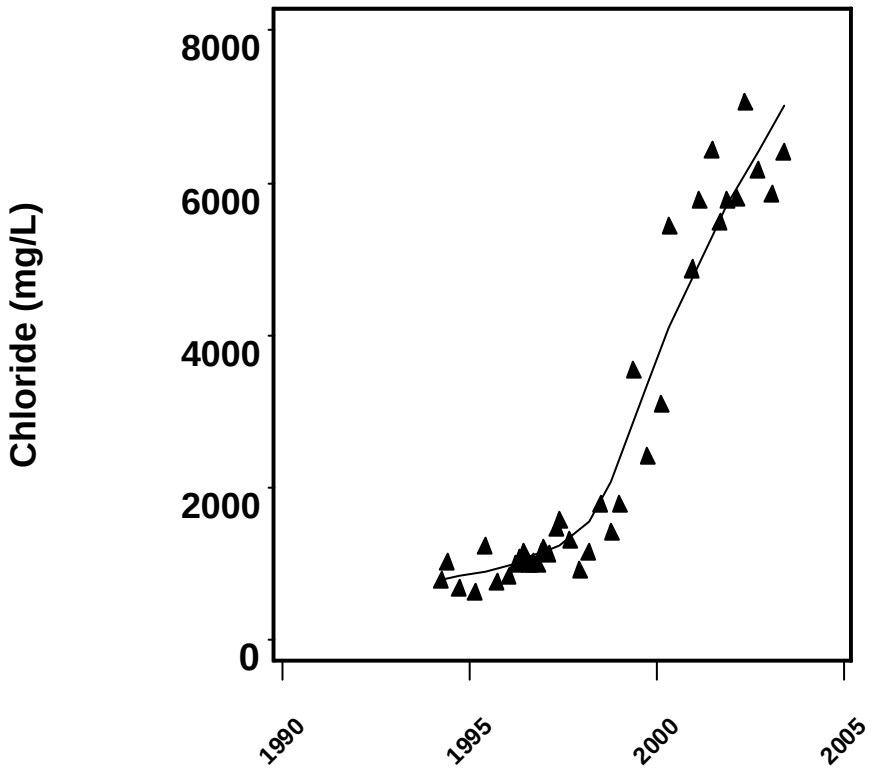


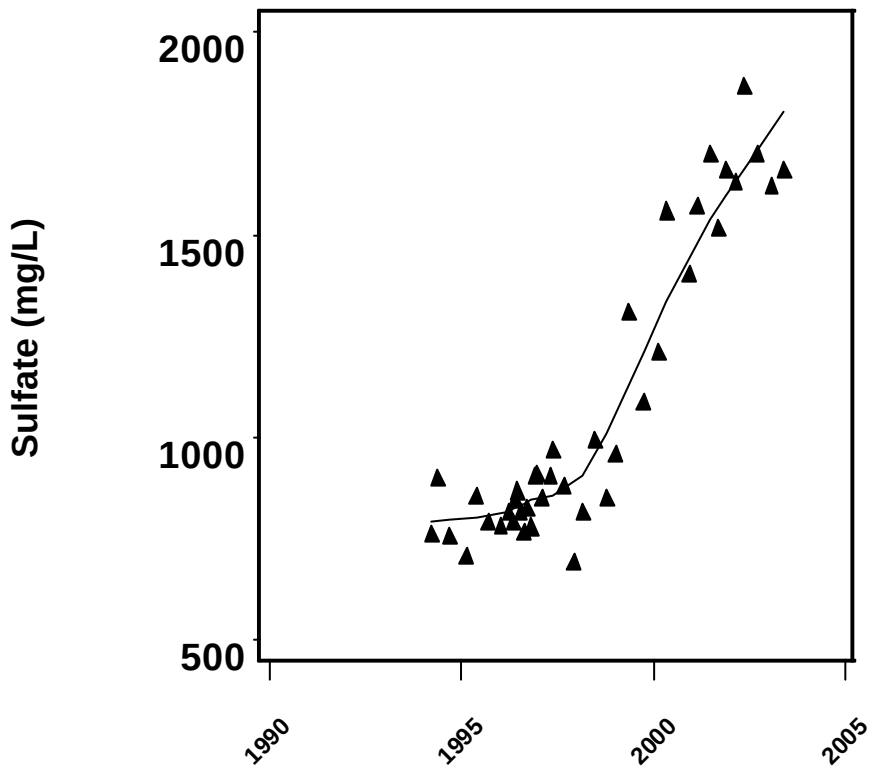
Appendix C-89. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-2 OCALA.



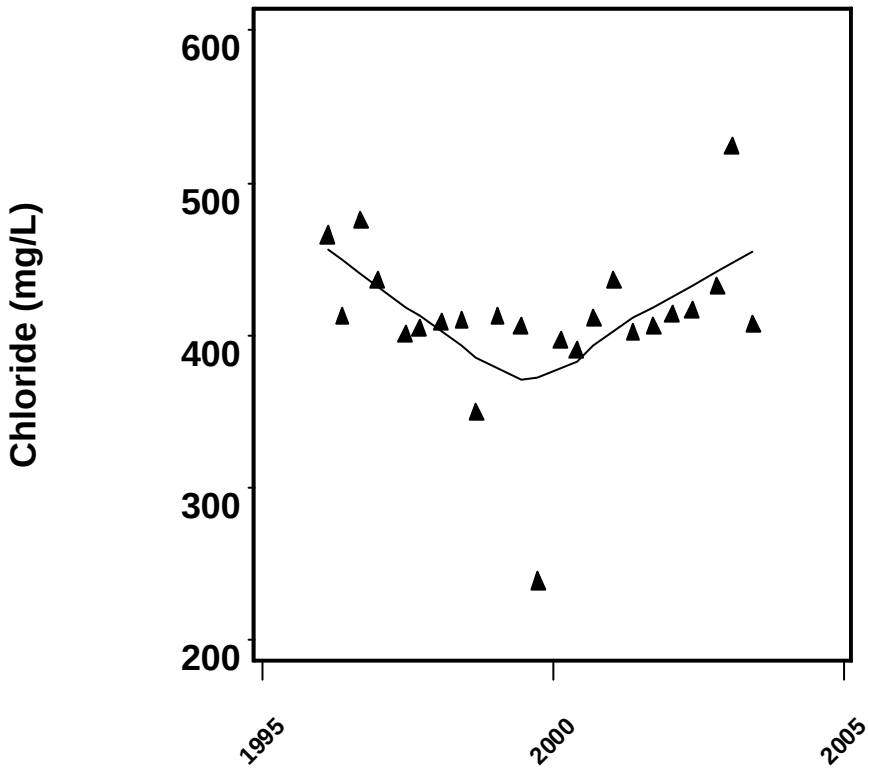


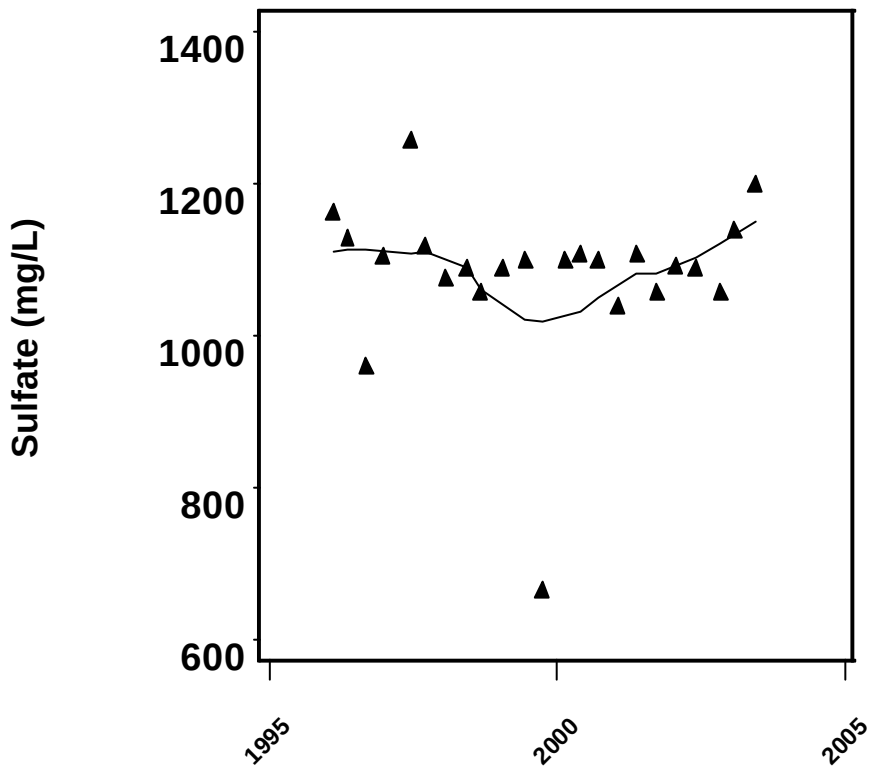
Appendix C-90. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR 9-3 AP.



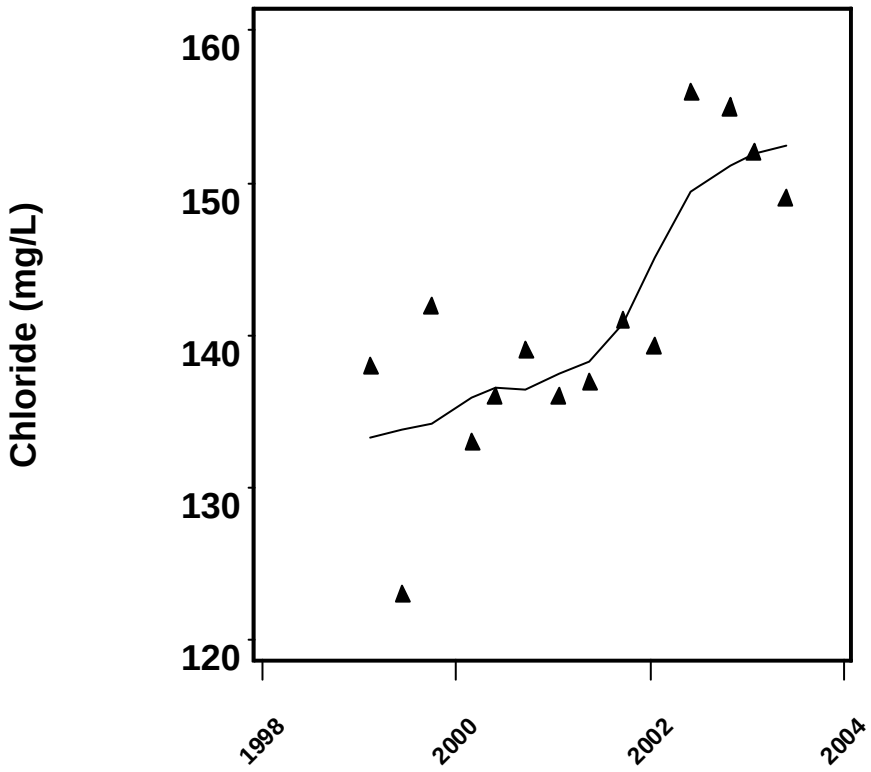


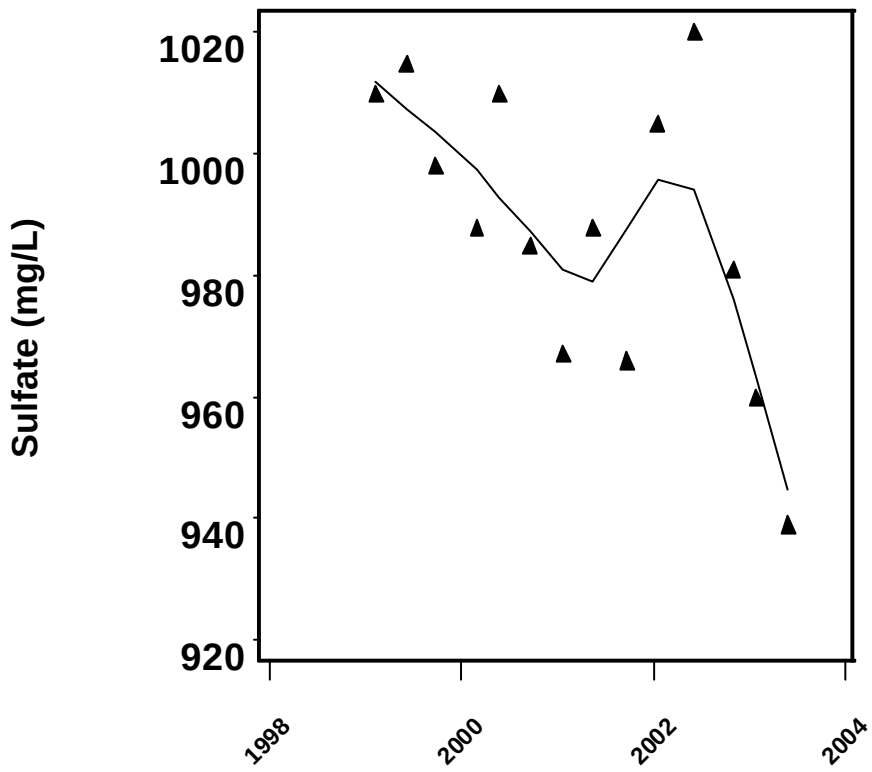
Appendix C-91. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR AB-3.



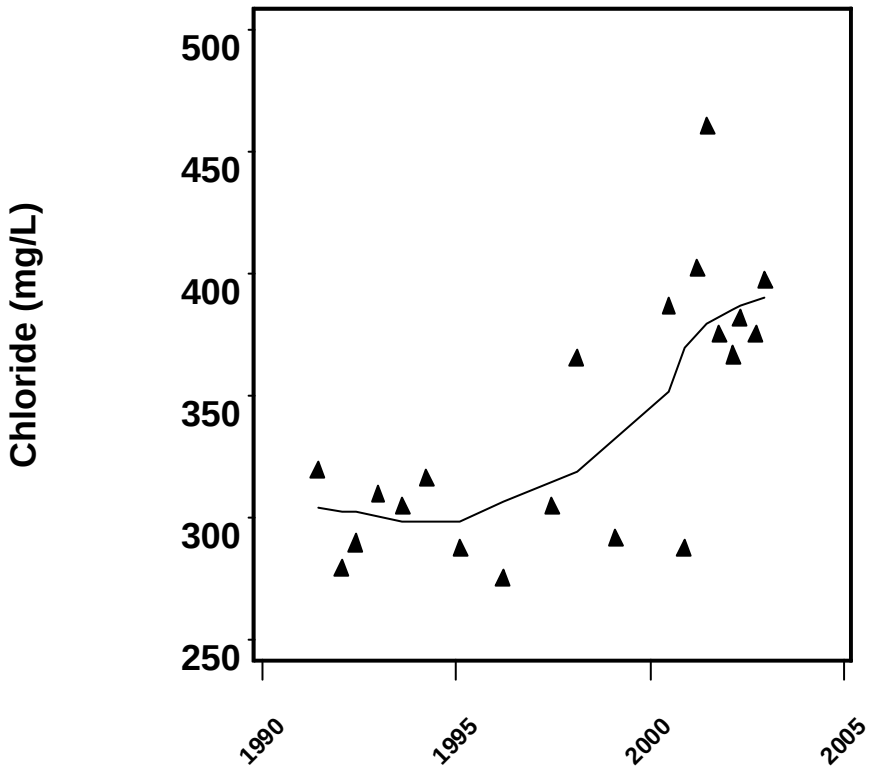


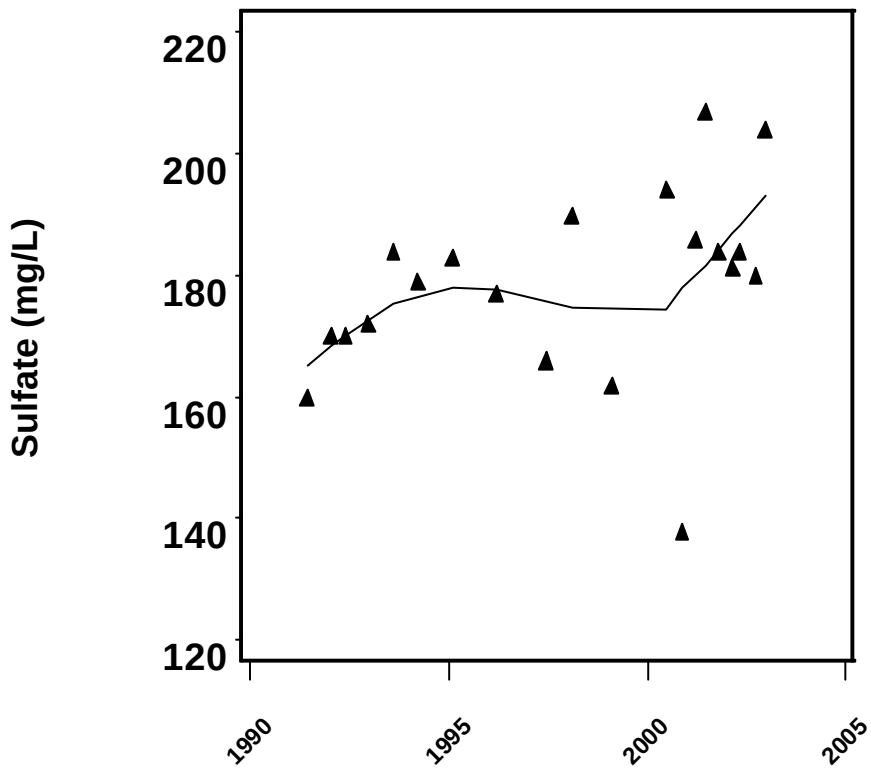
Appendix C-92. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR SA-1 AVON PARK.



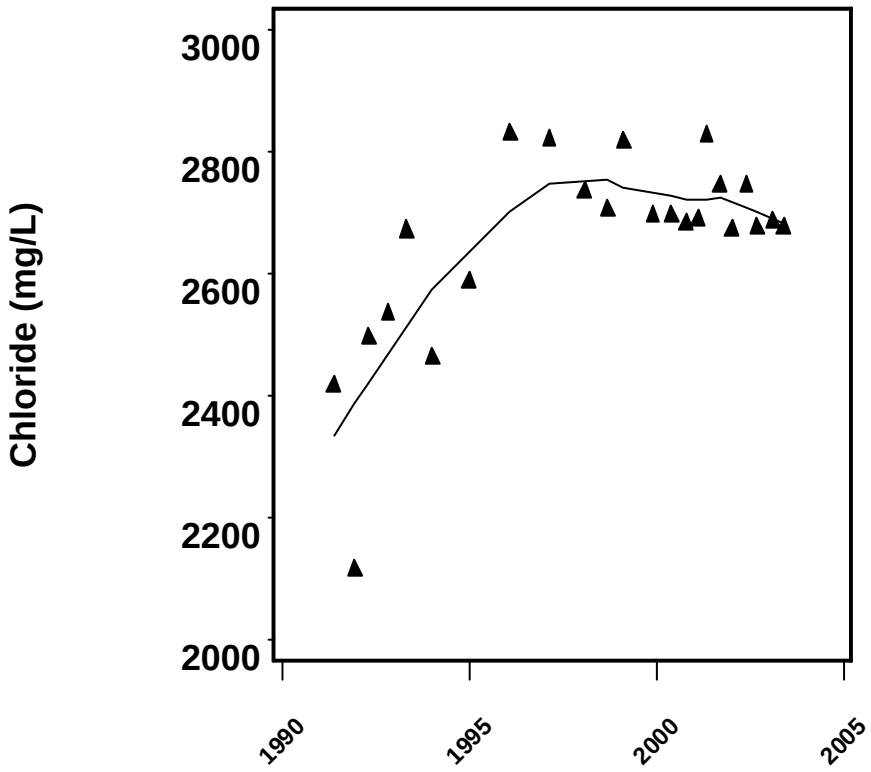


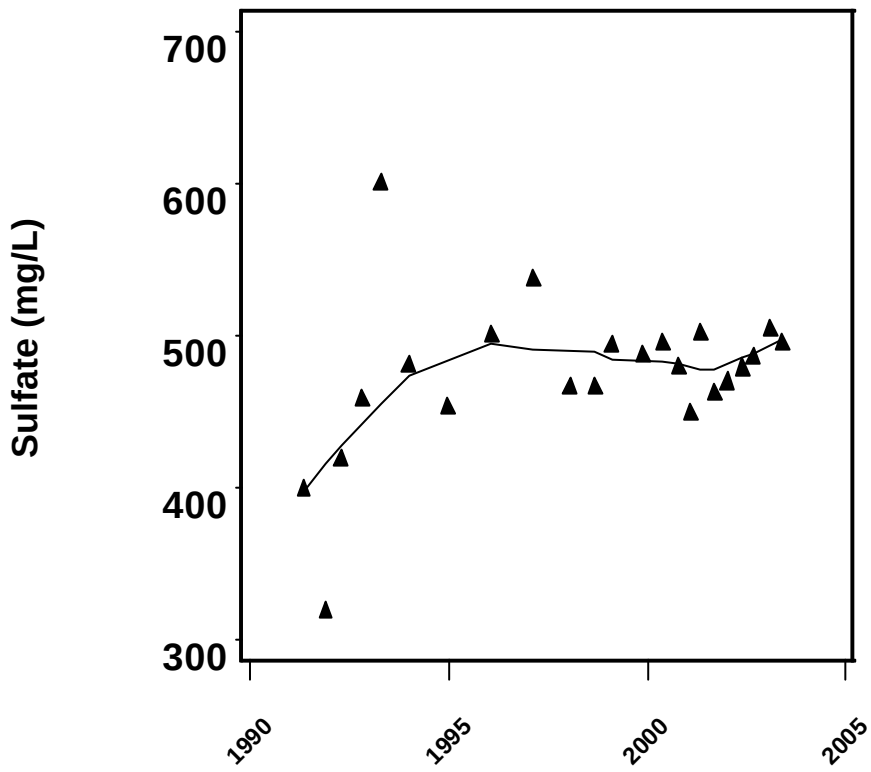
Appendix C-93. Water Quality Scatterplots Fitted with a LOWESS Curve for ROMP TR SA-3 UP FLORIDAN.



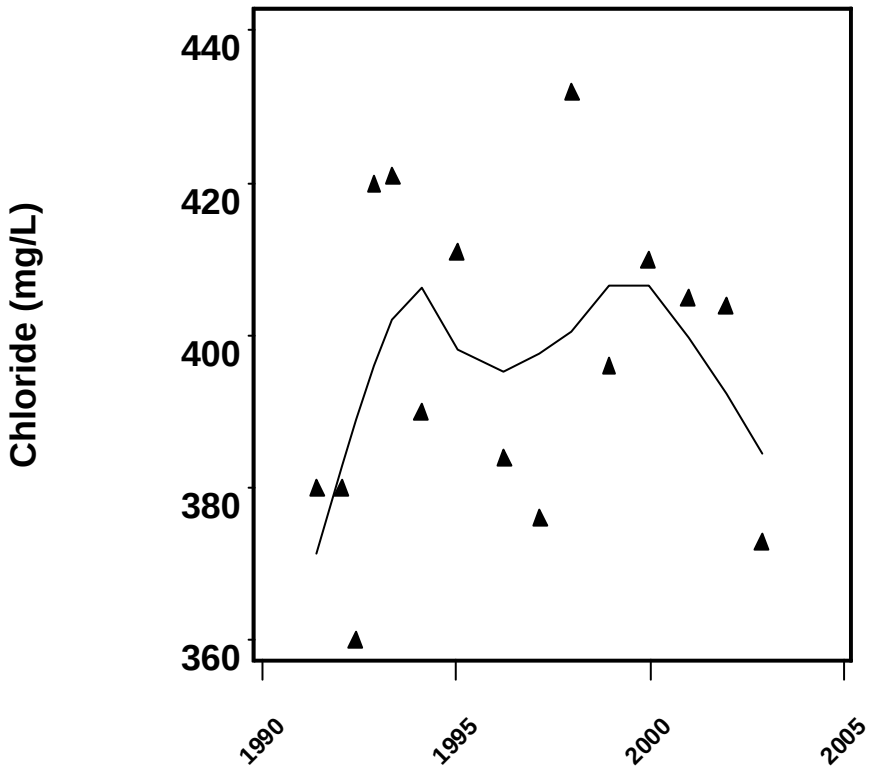


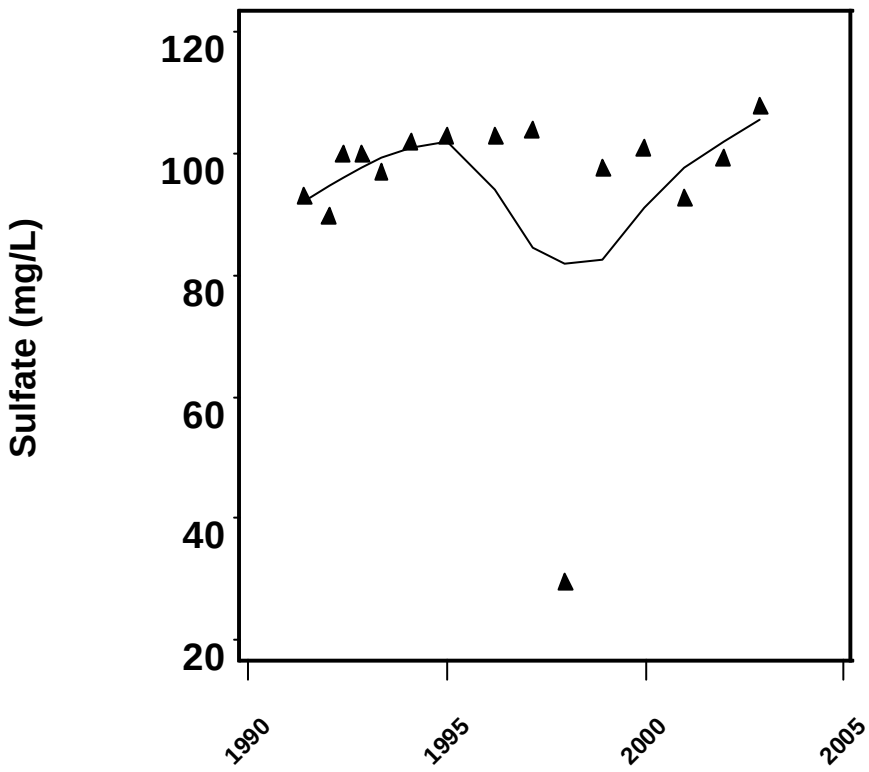
Appendix C-94. Water Quality Scatterplots Fitted with a LOWESS Curve for ROPER GROVES WELL.



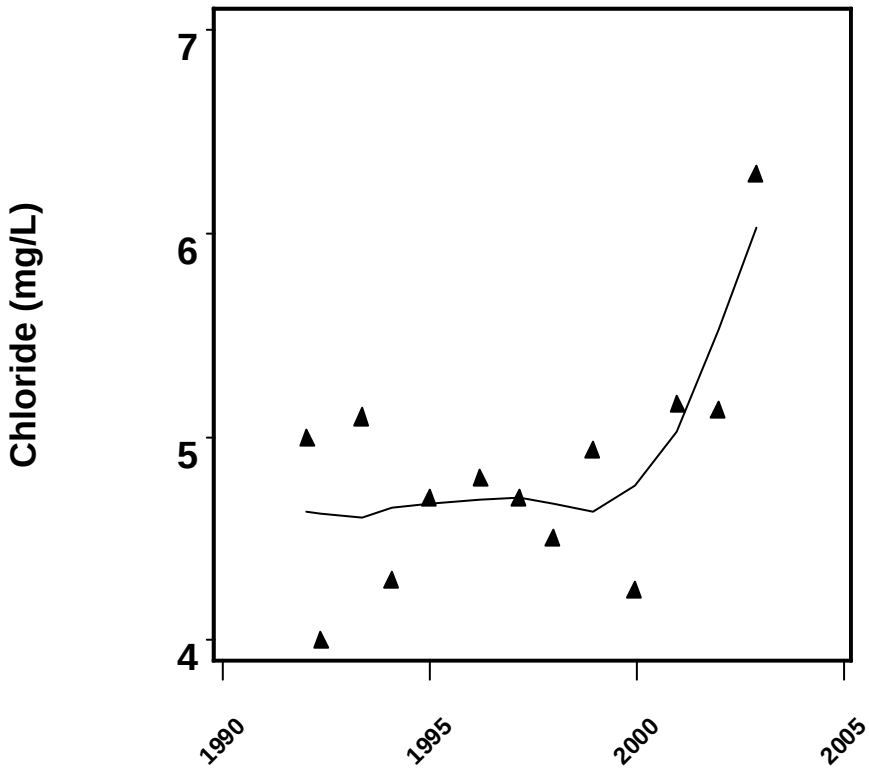


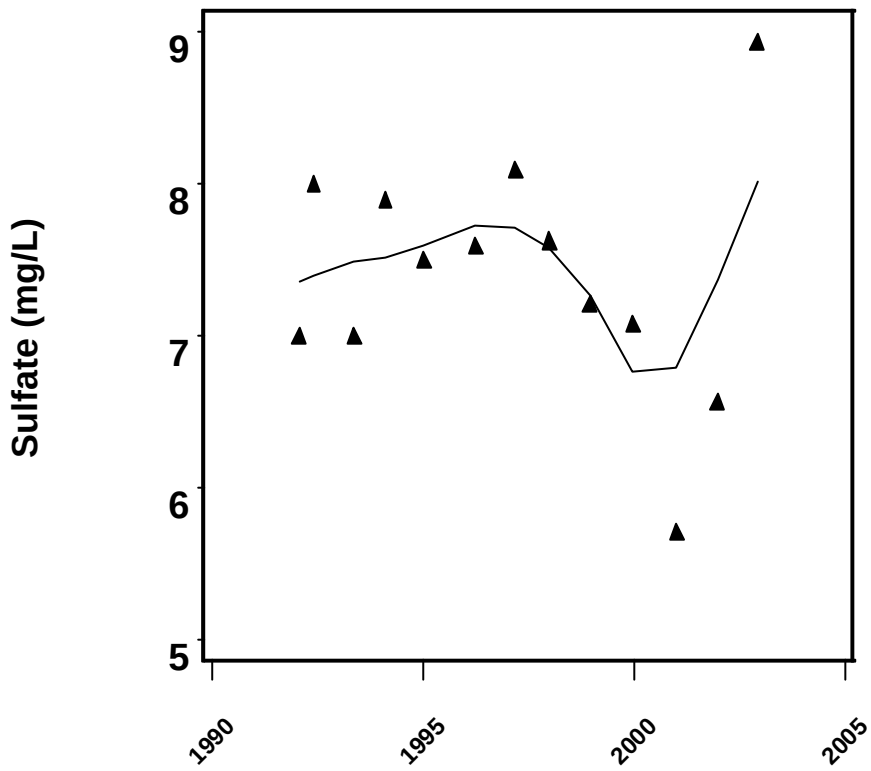
Appendix C-95. Water Quality Scatterplots Fitted with a LOWESS Curve for SHELDON ROAD DEEP.



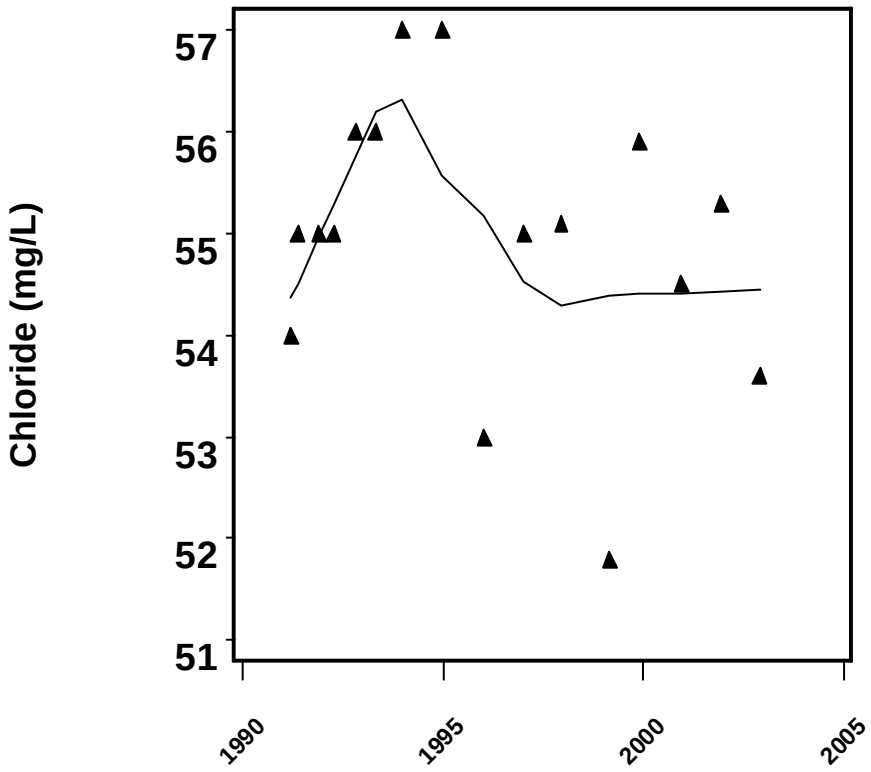


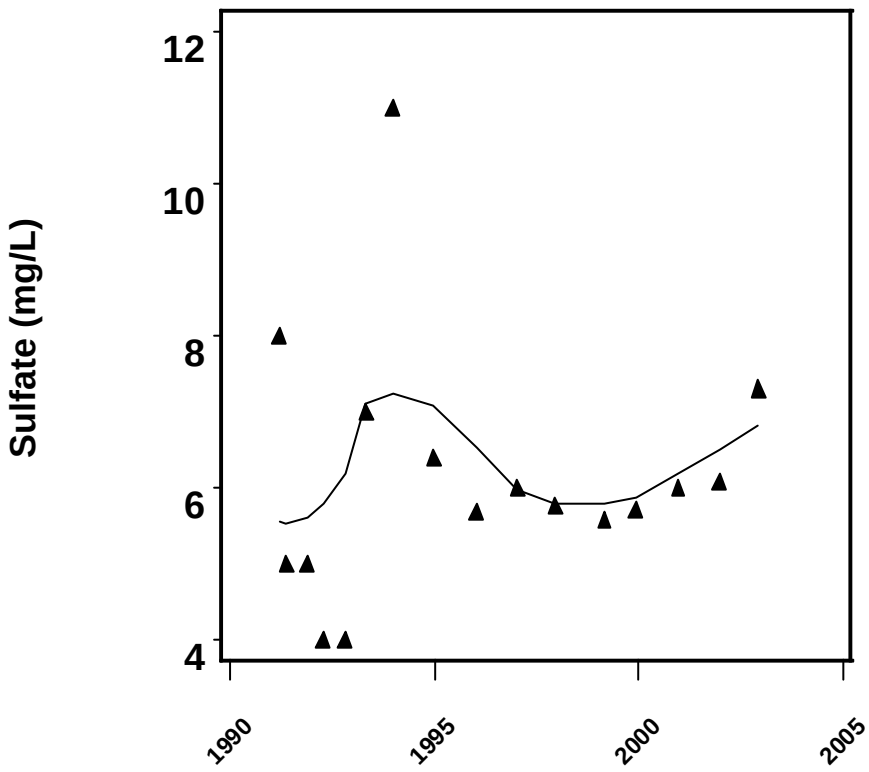
Appendix C-96. Water Quality Scatterplots Fitted with a LOWESS Curve for SUGARMILL MZ1 DUAL DEEP.



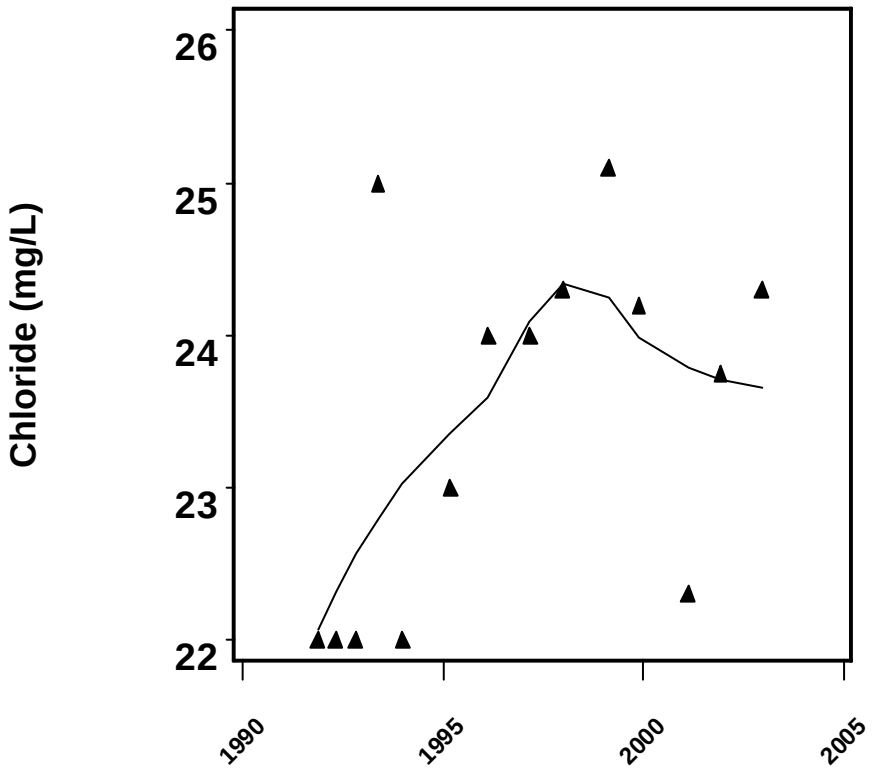


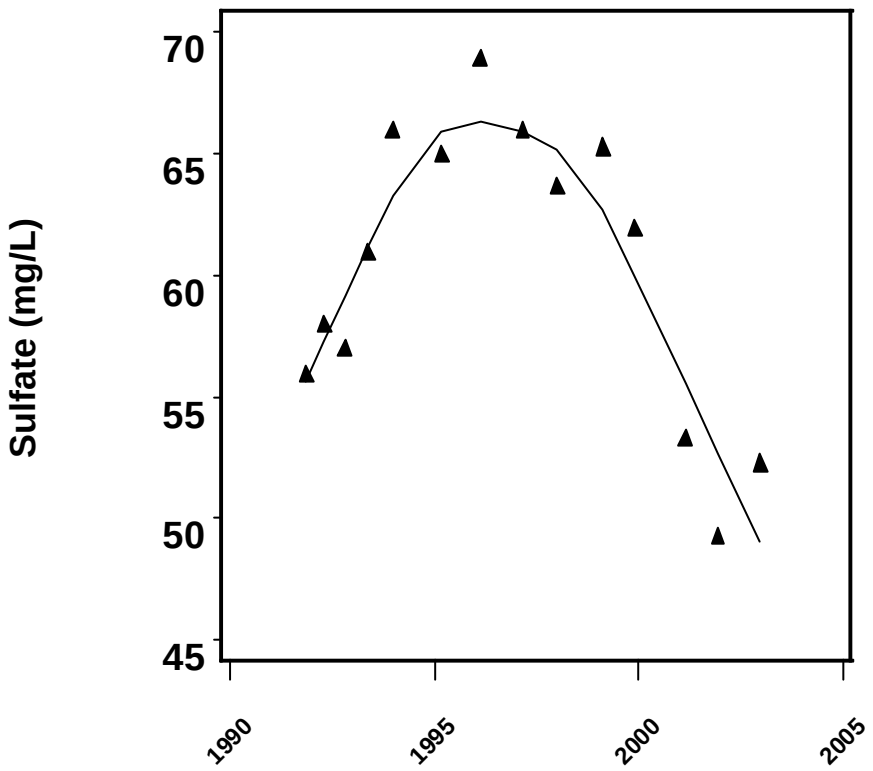
Appendix C-97. Water Quality Scatterplots Fitted with a LOWESS Curve for SUGARMILL MZ1 DUAL SH.



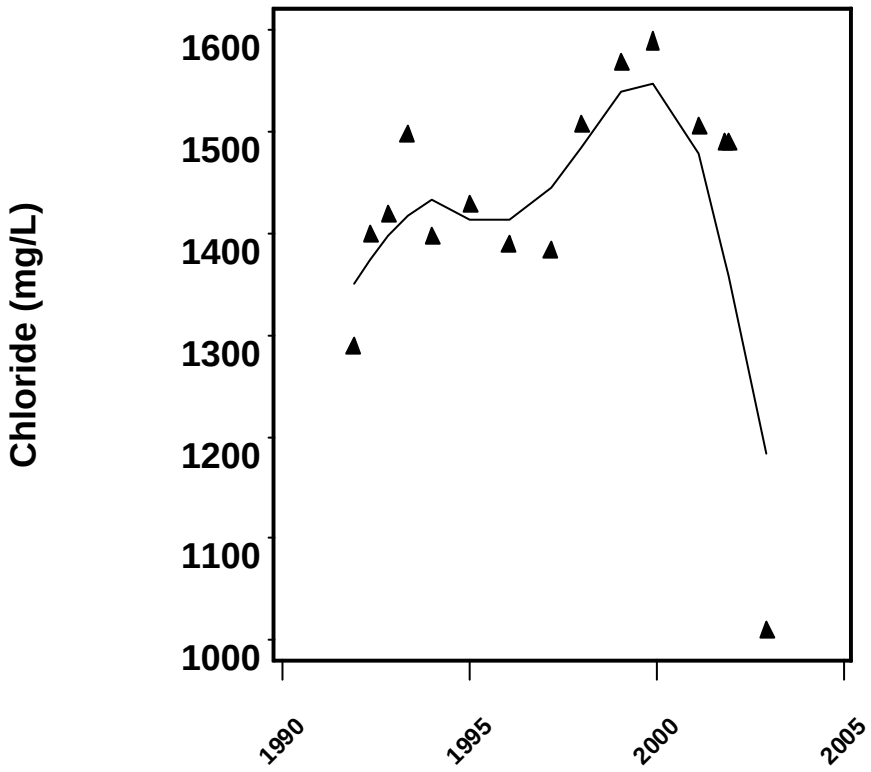


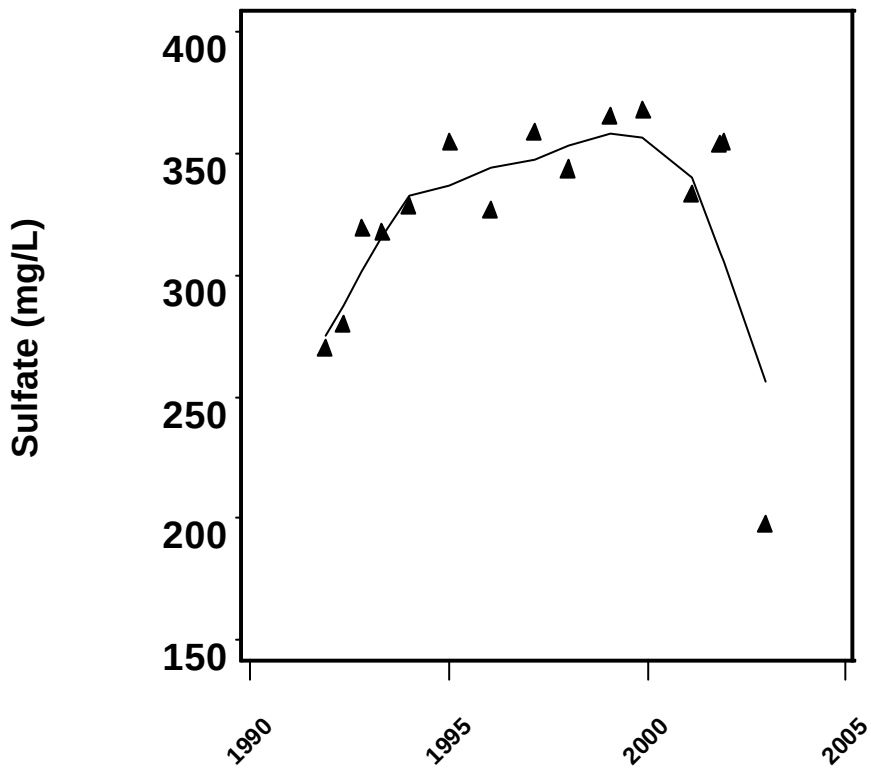
Appendix C-98. Water Quality Scatterplots Fitted with a LOWESS Curve for TARPON ROAD DEEP WEL.



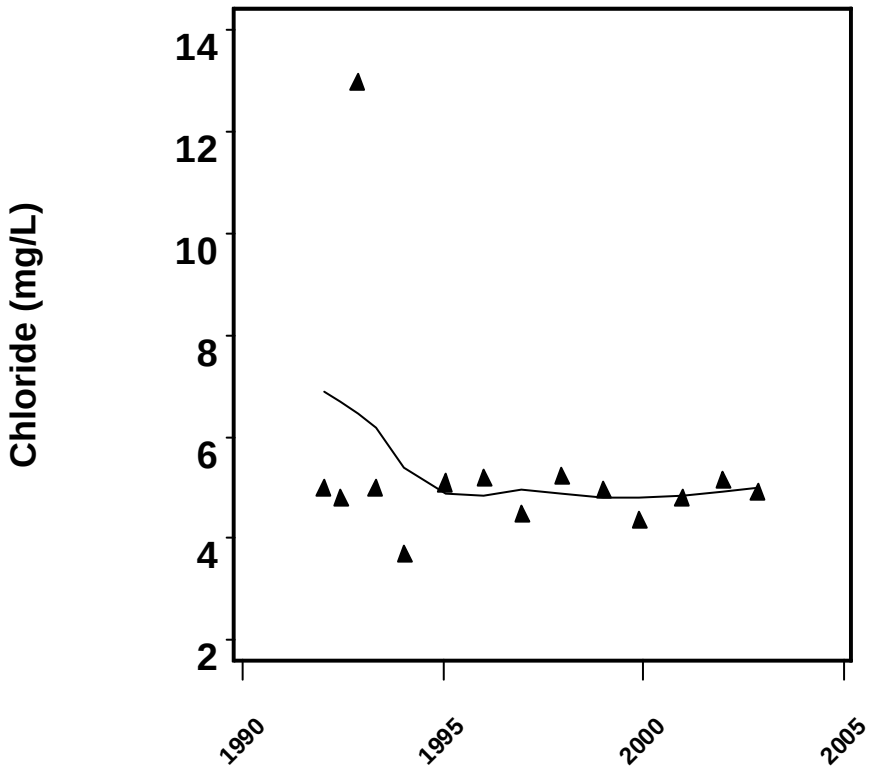


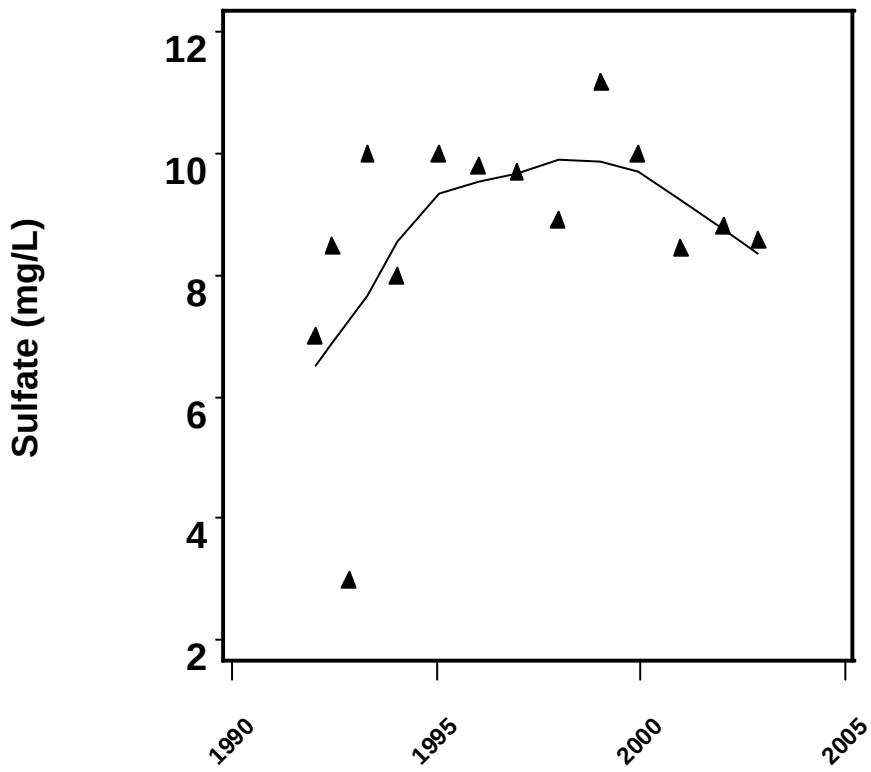
Appendix C-99. Water Quality Scatterplots Fitted with a LOWESS Curve for TBC – 09.



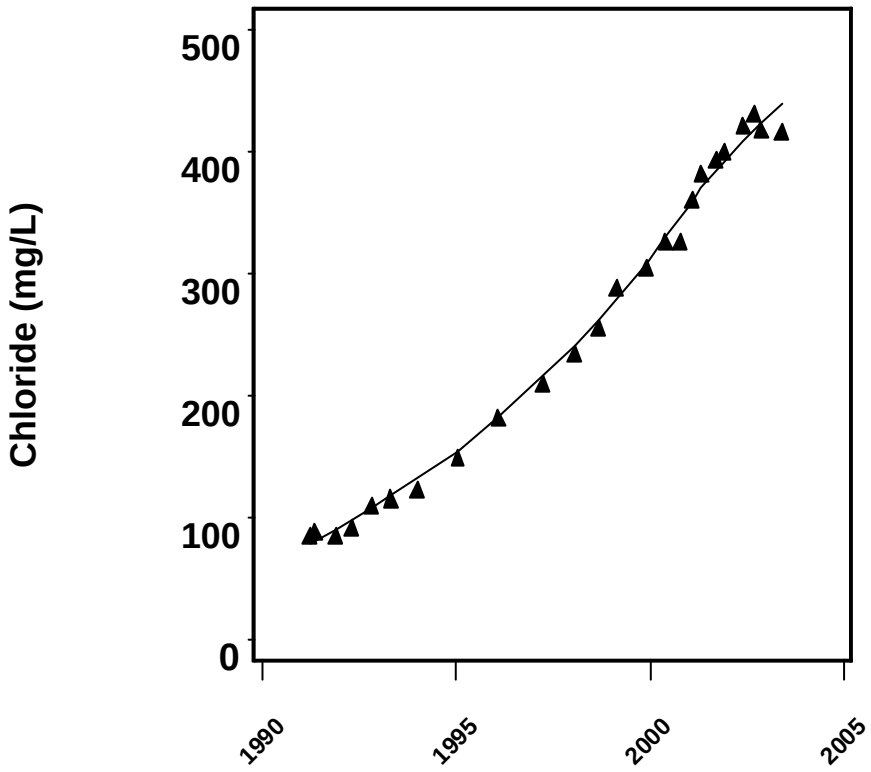


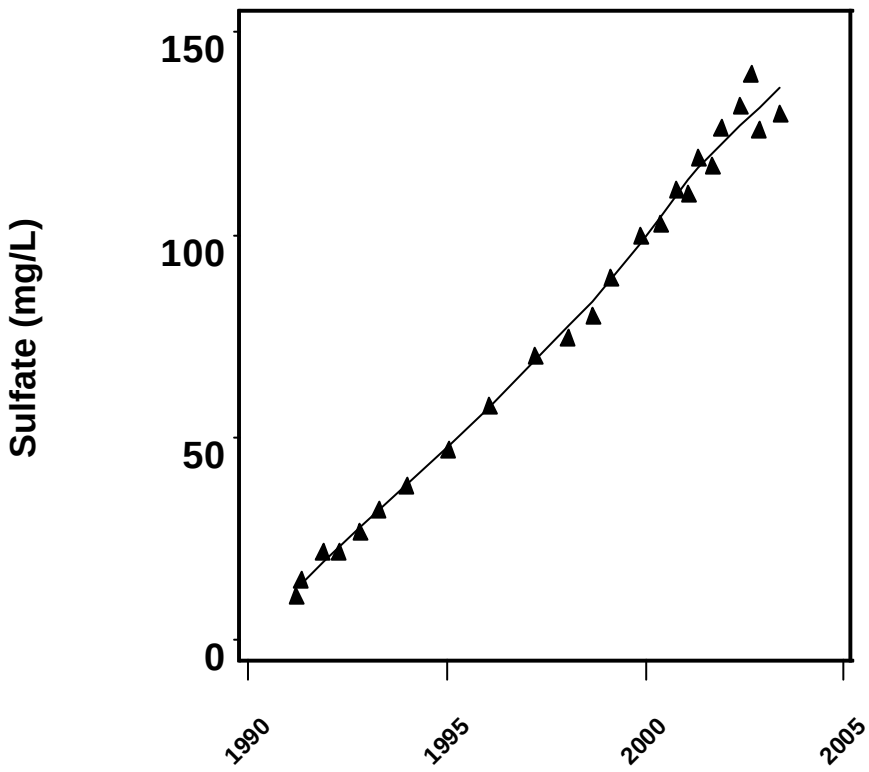
Appendix C-100. Water Quality Scatterplots Fitted with a LOWESS Curve for US PHOSPHORIC.



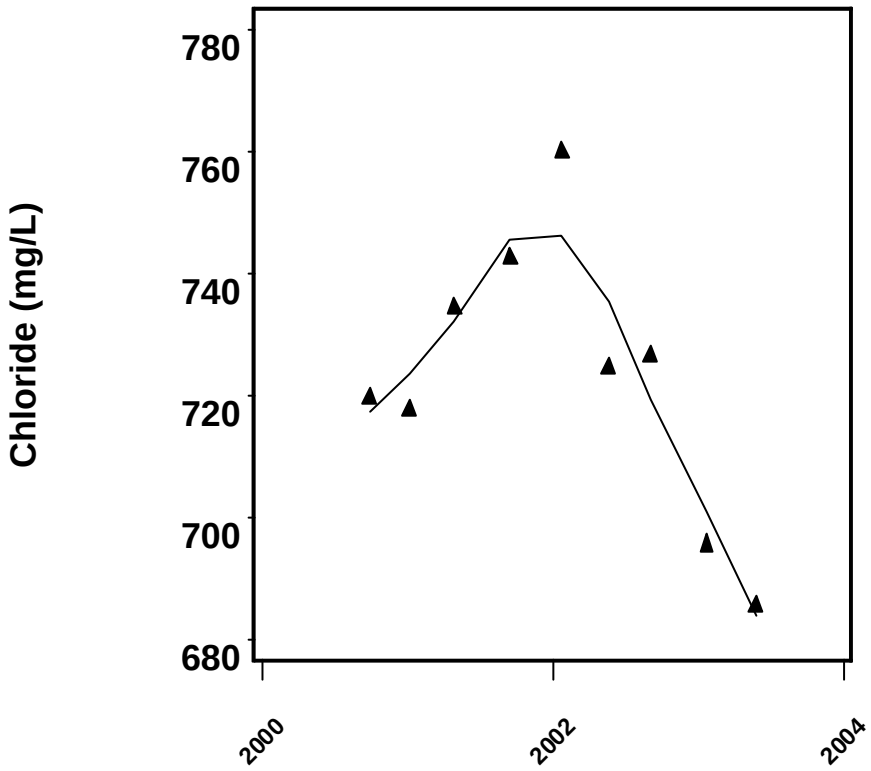


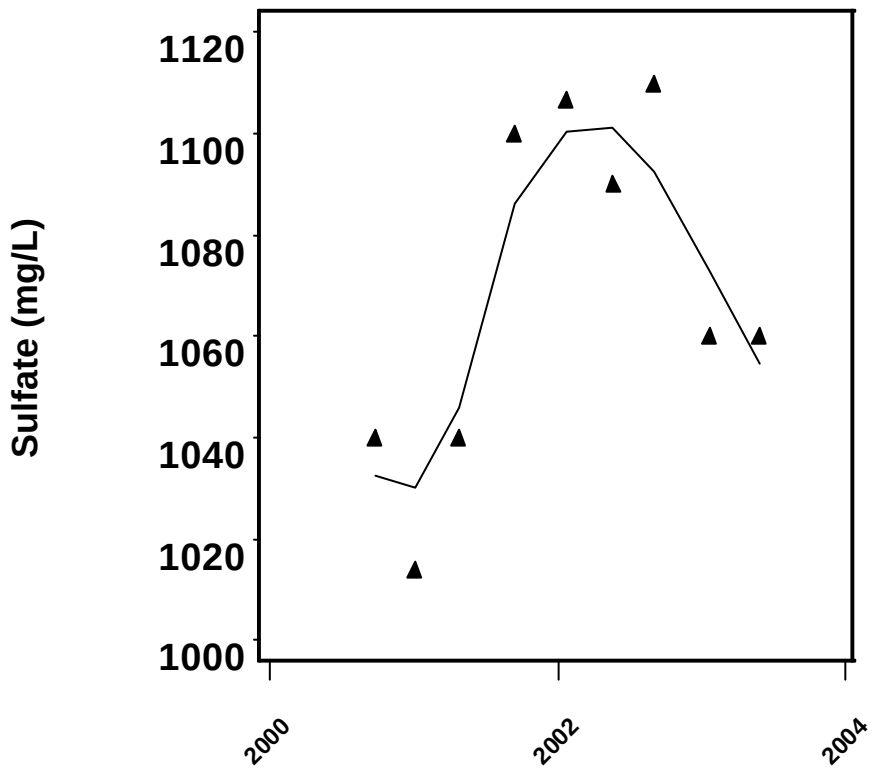
Appendix C-101. Water Quality Scatterplots Fitted with a LOWESS Curve for USGS WELL CE 88.



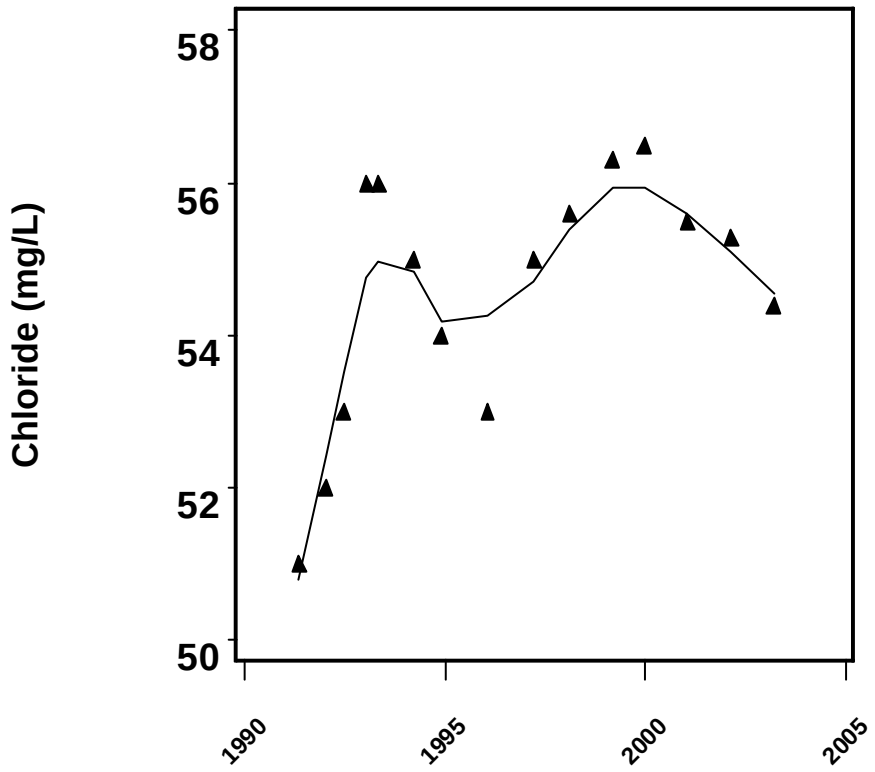


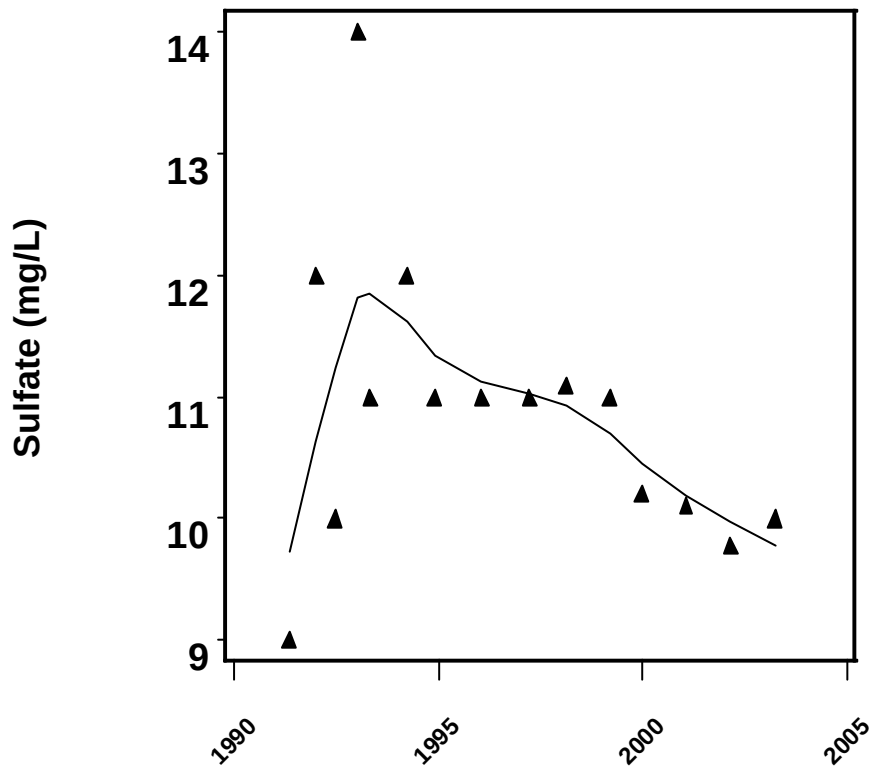
Appendix C-102. Water Quality Scatterplots Fitted with a LOWESS Curve for WCRWSA RMP 13PZ.



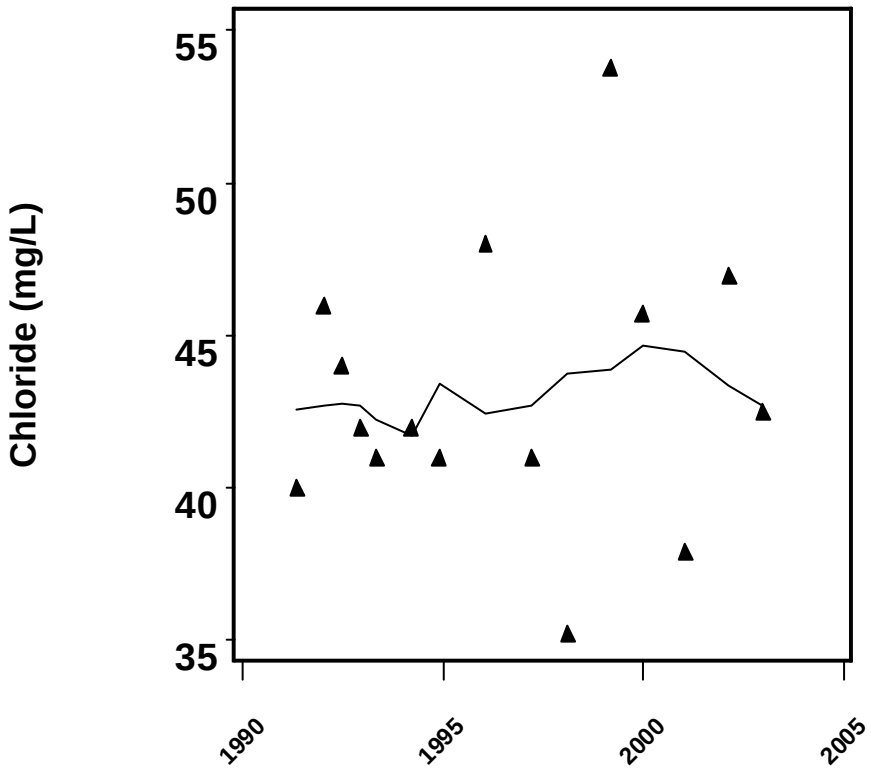


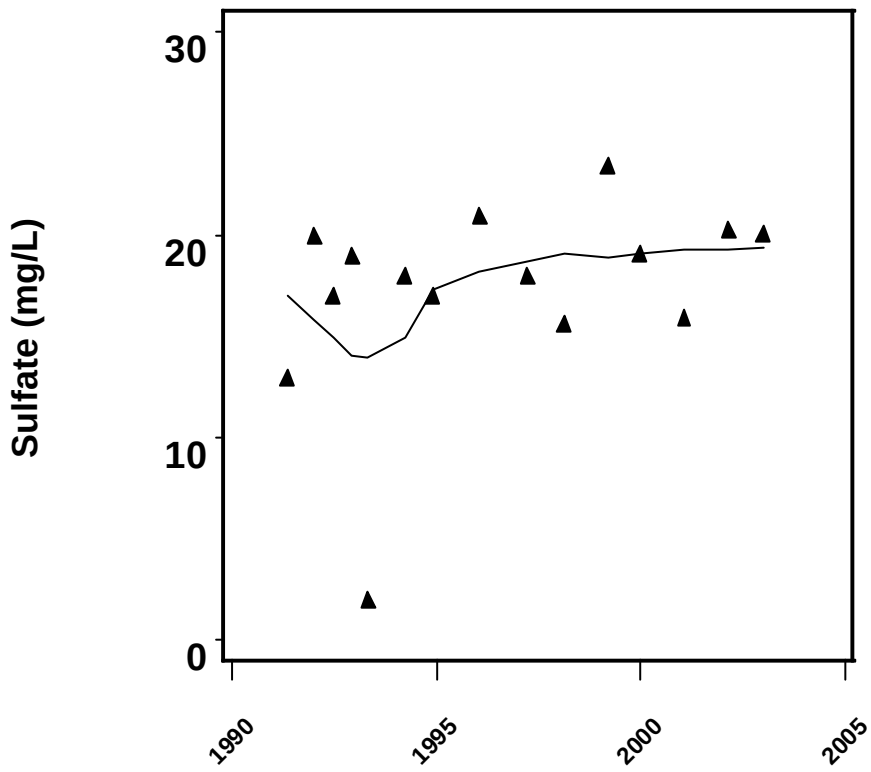
Appendix C-103. Water Quality Scatterplots Fitted with a LOWESS Curve for WEEKI WACHEE PRESERVE #4.



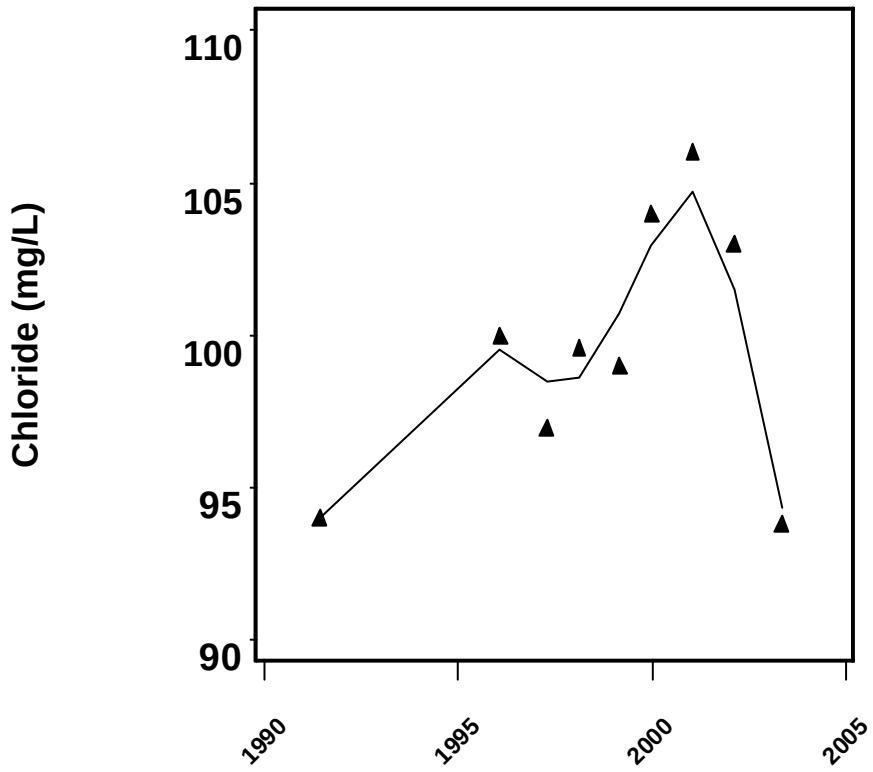


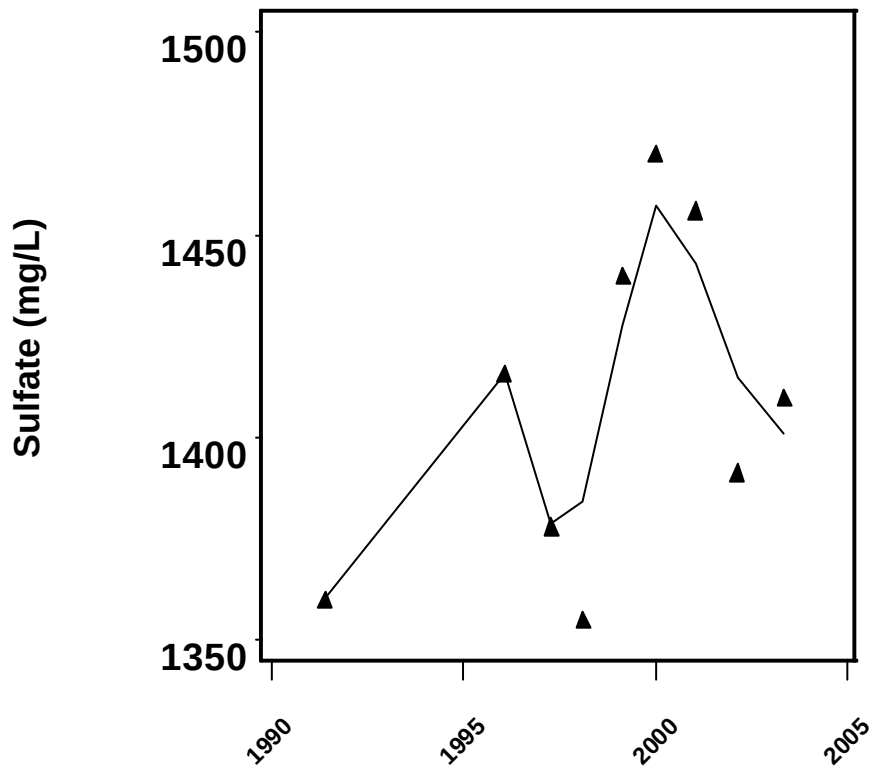
Appendix C-104. Water Quality Scatterplots Fitted with a LOWESS Curve for WEEKI WELL 2.





Appendix C-105. Water Quality Scatterplots Fitted with a LOWESS Curve for WEEKI WELL 3.





Appendix C-106. Water Quality Scatterplots Fitted with a LOWESS Curve for WHCWS MONITOR #1 DEEP.