Water Quality Trends in Selected Water Bodies of Newfoundland & Labrador

Canada-Newfoundland
Water Quality Monitoring
Agreement

Water Resources Management Division
Department of Environment

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Executive Summary

This report examines trends in 36 different water quality parameters from 65 different water quality monitoring stations located on representative rivers throughout the province of Newfoundland and Labrador. An examination of land and water use activities ongoing in each watershed allowed identification of likely causes and/or factors contributing to improving or deteriorating water quality trends. This report also ranks the 65 water quality stations as pristine, semi-impaired, or impaired.

Water quality data has been collected as part of the Canada-Newfoundland Water Quality Monitoring Agreement since 1986. Water quality parameters in this monitoring program include major chemical and physical parameters, such as dissolved oxygen, pH, turbidity, colour, conductivity, nutrients, major ions and metals.

Using statistical analytical methods, including time series plots and the nonparametric Spearman Correlation Coefficient, trend was determined over the period of record for each parameter. Many parameters exhibited no observed change, while others consistently displayed change. Throughout the province, turbidity and colour were generally displaying deteriorating trends, while conductivity, and the metals copper, lead and mercury, were consistently displaying improving trends. The deteriorating trend in turbidity, and to a lesser extend colour, can be linked to a variety of land disturbance activity including forestry, quarrying and construction. Increasing trends in precipitation have also influenced deteriorating trends in turbidity and colour, and improving trends in conductivity. Reductions in the rate of atmospheric deposition of copper, lead and mercury have lead to improving trends in these metals.

Urban rivers displayed a greater degree of change than rivers in more pristine watersheds. Of particular note was the deteriorating trend in nitrate/nitrite and nitrogen in more developed river basins, and a corresponding improving trend in phosphorous. The deteriorating trend in nitrate/nitrite and nitrogen is from a combination of sewage (direct outfalls and leaking septic systems), and residential and agricultural fertilizer application. The improving trend in phosphorous can be linked to phosphorous control measures first implemented in the mid 70's. Surprisingly, even in pristine watersheds change was often observed in metals, major ions, turbidity and colour.

Connections can be made between certain observed trends and known anthropogenic activity (past and present) in the watershed. For example, improving pH levels throughout the Exploits River indicate moderation of the effects of acid mine leachate from the now abandoned ASARCO zinc, copper and lead mine. Deteriorating trends in nitrate/nitrite on the Lower Humber can be linked to agricultural activity in the fertile Humber Valley area, in addition to sewage effluent from the towns of Deer Lake and Pasadena. Some improvements in rivers in St. John's can be linked to the greater awareness organizations like the Quidi Vidi-Rennies River Development Foundation and Virginia River Conservation Society have generated amongst the public concerning the cleanup and enhancement of these river systems and abatement of pollution causing practices.

In addition to localized connections between observed trends and watershed activities, several more global trend-causing factors were also identified. Global bans on leaded gasoline, and phosphorous control measures imposed on detergents have seen deteriorating trends in both lead and phosphate throughout the province. Improvements in atmospheric emissions from major pollution sources (including many industries and factories located along the Eastern Seaboard of North America) have also seen improving trends in pollutants identified as having significant atmospheric contributions in waterbodies including sulphate, mercury, lead, copper and zinc. Changes in climate since the start of water quality monitoring in the province seem also to have had an effect on some parameters. Increased precipitation has resulted in increased turbidity and decreased major ion concentration.

To categorize the monitoring sites, a ranking was performed by applying the Canadian Water Quality Index (CWQI) with water quality guidelines produced by the Canadian Council of Ministers of the Environment (CCME). Rivers in the Western Region of the province were in a more pristine state than rivers in the

Eastern Region of the province, where the highest number of impaired rivers was found. The level of urban development is much higher in the Eastern Region of the province, and has obviously had an impact on the quality of these rivers.

This report provides an outline on the path forward to continue building upon the findings made here. Recommendations include dissemination of this information to the public, retooling of the water quality monitoring network, more in depth analysis using GIS and water quality modeling tools, and pursuing additional courses of investigation including studying spatial variations within watersheds, and the effect of climate change on water quality.

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Introduction

Environment Canada and the Department of Environment have been monitoring surface water quality of selected water bodies in the province since 1986 under the Canada-Newfoundland Water Quality Monitoring Agreement. The purpose of this Agreement is:

- Coordination and integration of federal and provincial water quality monitoring activities
- Assessment of the suitability of water for various beneficial water uses
- Development of pollution control regulations, water quality guidelines and objectives
- Use of the collected data for trend analysis, water quality modeling, environmental assessment studies, research undertakings, legislative formulations, and federal-provincial-international agreements and commitments

Because of growing public interest and demand for such information, the Department of Environment is publishing the data using a trend report format. This report can then guide people in their decisions on how to use water, and promote actions to correct water quality problems.

This trend report is based on data collected regularly and consistently since 1986. The data is evaluated to determine whether water quality is improving, deteriorating or remaining the same over the years. Water quality guidelines are used to help rank sites as pristine, impaired or semi-impaired. Knowledge of environmental and anthropogenic factors affecting each basin are used to determine possible causes for observed water quality trends.

In order for any long-term trend analysis to provide accurate results, samples must be taken in the same way and at the same location, and analyzed using consistent methods over periods of 5 to 10 years. If locations or methods of sampling or measuring change over time, it becomes difficult to tell whether a trend is due to a change in water quality or just a change in locations or methods. Regular monitoring requires measuring at regular intervals that are frequent enough to be representative of water quality for the water body.

Water quality guidelines are safe levels of water quality indicators provided by the Canadian Council of Ministers for the Environment (CCME) to protect sensitive uses of water such as drinking, aquatic life and recreation. They establish a general reference against which the state of water quality in a water body can be checked. However, local water quality conditions such as high background levels of certain parameters are frequently not taken into account.

The main potential sources of pollution are industry, forestry, mining, urban development, agriculture and stream alterations. Each of these encompasses a wide range of activities that have been proven to negatively impact water quality in the form of point source and non-point source pollution.

Objectives and Scope

The overall objective of this study is to provide an analysis of water quality data collected since 1986, and based on the findings from this analysis, recommend changes to the Agreement water quality monitoring network. Specific objectives include:

- Analysis of available water quality data using statistical techniques to document changes in water quality
- Identify sources and causes of water quality degradation
- Identify major water quality problems
- Analyze temporal variations among various monitored parameters on a watershed basis along with spatial water quality changes within various geographic regions
- Rank and classify water bodies into pristine, semi-impaired, and impaired categories based on trend analysis results, in conjunction with the Canadian Water Quality Index (CWQI) using Canadian Council of Ministers of Environment (CCME) water quality guidelines

- Make recommendations on what can be done to improve water quality where there are deteriorating trends or other water quality concerns, and to maintain water quality where there are no present concerns
- Make recommendations for reorganization of the Agreement water quality monitoring network in terms of size, monitoring parameters and media
- Make recommendations for further study

The scope of this report, however, is limited to an assessment of change in water quality since 1986, and a ranking of water bodies according to water quality. The ranking or status of the rivers will examine the degree of attainment of water quality objectives, while trend analysis will focus on whether water quality is changing over the long term and possible reasons for this. Some aspects of the other objectives will be touched on, but not in depth.

The study is based on published and unpublished data on water quality and watershed characteristics available from the Department of Environment. The report examines trend in, and ranks, 65 different monitoring sites on bodies of water throughout the province. These waterbodies provide geographic representation and range from those that are relatively pristine to those heavily impacted by human activity. Because of this, the trend report can be viewed as being indicative of the trends in water quality of the province as a whole.

Methodology

Considerable attention has been given to the testing of water quality data for trend over time in recent years. The reasons for this include the fact that only recently has there been enough data available to make such analysis feasible, and because of the intrinsic interest in the question of changing water quality arising out of environmental concern, and the effect of anthropogenic activity.

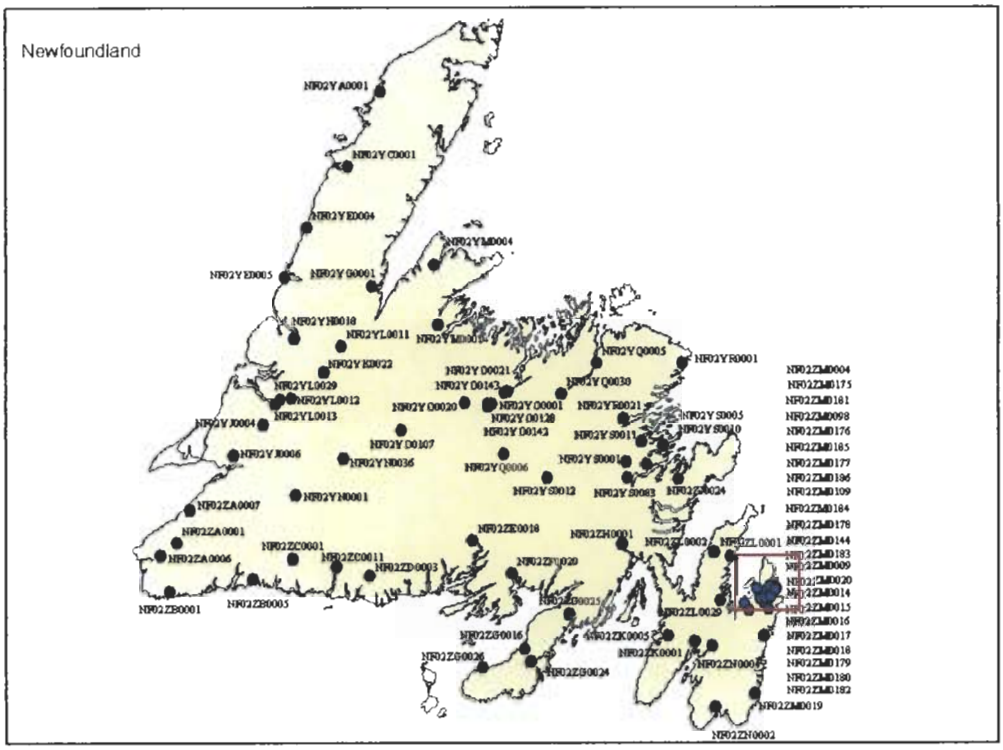
The methods that are suitable for the detection and estimation of trends are determined by how a trend is defined. Simply speaking, trend analysis determines whether the measured values of a water quality parameter increase or decrease during a period of time. However, the type of trend analysis depends on the data set characteristics and the program objective for which the data are collected (Johnson, 1994). Techniques for trend analysis include time regression, regression on non-normal transformations, analysis of variance, flow/concentration regression, paired regression, and nonparametric techniques.

Factors that complicate the analysis of water quality time series include non-normal distributions, seasonality, dependence on the rate of flow, the presence of missing observations, outliers, serial dependence and the existence of censored data. The large amounts of data to be analyzed, along with the various characteristics of that data, made certain trend analysis techniques unfeasible or too time consuming to perform. In the end, a combination of time series plots, moving averages, and use of the nonparametric Spearman's rank correlation coefficient were decided on to test for trend.

Two of the main methods to test for trends over time described in the following section involve use of Spearman's rank correlation coefficient. This nonparametric test was used because it has been found to be more robust, have a high power, and perform well in comparison to its parametric counterparts (Forester, 2000). Calculation of the Spearman coefficient was made using the statistical software application SYSTAT 7.0.

Sampling stations are located throughout the province to provide geographical representation and sufficient monitoring for more strategic rivers. Waterbodies of interest are divided into four regions- Eastern, Central, Western and Labrador. A map of Agreement water quality stations can be found in Figure 1.

Figure 1: Canada-Newfoundland Water Quality Monitoring Agreement Sites



Parameter Groupings

A wide variety of chemical and physical indicators of water quality were measured as part of the Agreement monitoring program. These indicators include:

- **Turbidity** measures the amount of particulate matter in water, which can occur due to natural erosion of the Earth's surface, but can be affected by land disturbances, waste discharges and dams.

- **Colour** in water ranges naturally from nil to tea-coloured, depending on the amounts of organic and inorganic material dissolved in the water. Pulp mills and some other industrial effluents can increase the colour of water to objectionable levels.

- **Dissolved Oxygen** is a vital part of the air that is dissolved in water. Minimum amounts are essential for aquatic organisms to breath. It can be depleted to harmfully low levels by bacteria consuming the organic matter in sewage, industrial effluents, agricultural wastes and decaying algal blooms.

- **pH** is a measure of the acid or alkaline nature of water, which can be affected by waste discharges, acid precipitation, or too much algal growth.

- **Major Ions** such as calcium, sodium, magnesium, potassium, chloride, sulphate and fluoride are present in all natural waters, but can be affected by waste discharges and land disturbance. **Conductivity** can be considered an overall indicator of changes in major ions.

- **Nutrients** include forms of carbon, nitrogen, phosphorous, as well as silica, which are essential for aquatic plants such as algae. Waste discharges and land use can increase nutrient levels in water, causing too much algal, fungal or bacterial growth and harming water uses. Agricultural fertilizers and manure, as well as sewage and septic tank effluents can increase nitrate levels.

- **Trace Elements** include aluminium, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, lithium, manganese, mercury, molybdenum, nickel, selenium, strontium, vanadium and zinc. These metals are normally present in minute amounts, but can be increased to harmful levels by waste discharges and runoff from land disturbances, transportation corridors and other developed areas.

The Agreement water quality data included parameters that had both field and laboratory results, total and extractable results, and dissolved and extractable results. For the trend analysis, laboratory results were used for conductivity and pH, total values were used for all metals, and dissolved values were used for all major ions.

The four major categories of water quality parameters are identified in the following table.

Table 1- Agreement Water Quality Parameters by Major Grouping

Physical and Chemical Parameters	Major Ions	Nutrients	Trace Elements and Metals
Turbidity	Calcium	Nitrogen	Aluminium
Colour	Sodium	Nitrate & Nitrite	Arsenic
Dissolved Oxygen	Magnesium	Phosphorous	Barium
pH	Potassium	Silica	Beryllium
Conductivity	Sulphate	Dissolved Organic Carbon	Cadmium
	Chloride		Cobalt
	Floride		Chromium
			Copper
			Iron
			Lead
			Lithium
			Manganese
			Mercury

			Molybdenum
			Nickel
			Selenium
			Strontium
			Zinc
			Vanadium

The monitoring data for these variables is available on a monthly, bi-monthly to quarter-monthly basis depending on the site for a period of record covering 1986-2000. The duration of all records is not equal, however.

Agreement Water Quality Data Characteristics

In determining the most appropriate statistical methods that could be used in trend analysis, the characteristics of the Agreement water quality data first had to be determined. The following is a brief overview of the Agreement water quality data characteristics:

Distribution of data

Water quality data does not usually follow convenient probability distributions such as the well-known normal distribution on which many classical statistical methods are based. The majority of parameters displayed a lack of normally distributed data. The assumption of a normal distribution of data is required for parametric statistical methods such as linear regression. As the Agreement data regularly departed from normality, a non-parametric statistical test for trend had to be adopted for the analysis. Another indication of non-normality is the skewness of the distributions, the majority of which were positive or right skewed. Of the commonly measured water quality variables, only temperature, pH and dissolved oxygen can be considered to be typically or near normal (Hirsch and Slack, 1984).

Censored data

Parameters with observations below analytical detection limits that are replaced by constant values (and other problems with the distribution of the data including missing data values) are described as censored data. These types of error can invalidate analysis of the water quality time series. The test for normality revealed that data for many parameters is grouped at certain values (ie. there is no smooth distribution of data). The standard practice is that for Agreement values less than the detection limit, a value of half the detection limit is taken. Parameters with frequent occurrence of censored data include: floride, beryllium, cadmium, mercury, molybdenum, and to a lesser extent chromium, cobalt, and nickel. Over the period of record, the frequency of occurrence of less than detect values decreased significantly due to improvements in laboratory technology and thus lower detection limits.

Serial Dependence of Data and Seasonal Variance

Occurs when consecutive observations are correlated (ie. high values followed by high values, low values followed by low values). All parameters indicate a high level of positive autocorrelation. This indicates the data is periodic, and fitting a straight line to the data will result in errors with regards to the linear regression. From autocorrelation plots, it is evident the data shows a yearly (12 month) trend. The periodic nature of many of the parameters can be observed from the time series plots.

Outliers

Outliers are observations three standard deviations above or below the mean. If not removed from the data sets, outliers can possibly influence the statistical analysis. In this trend analysis outliers were left in the data sets as they can indicate important phenomena, not necessarily erroneous data. The outliers will be demonstrated using time series plots.

Descriptive Statistics

Tables of typical statistical measures of the Agreement water quality data were produced including: mean, standard error, median, mode, standard deviation, sample variance, skewness, range, minimum, maximum and count. Microsoft Excel's Data Analysis ToolPak was used to produce the above descriptive statistics.

12-Month Moving Averages

Time series plots of all parameters at each Agreement water quality site were produced, including the 12-month moving averages. These plots provide a general indication of trend, and support observations made later in the statistical trend analysis. Each parameter was graphed using scatterplots in Excel, using time in cumulative months as the independent variable.

Spearman Trend Analysis

The entire data series for each parameter, paired with cumulative month, will be analyzed using the nonparametric Spearman's criterion to detect the existence of trend. The existence of a trend is checked using the test statistic t_t and is checked for significance at the level of 5% from statistical tables of the Student's t-distribution. The Spearman rank-correlation coefficient is described as:

$$R_{SP} = 1 - \frac{6\sum_{i=1}^{n}(D_i D_i)}{n(n^2-1)}$$

where n is the total number of values in each time series, D is the difference and I is the chronological order number. The difference between rankings is computed as $D_i = K_{xi} - K_{yi}$, where: K_{xi} is the rank of a measured variable in chronological order and K_{yi} is the series of measurements transformed to its rank equivalent, by assigning the chronological order number of the measurement in the original series to the corresponding order number in the ranked series, y. The null hypothesis, H_0: $R_{SP} = 0$ (there is no trend) against the alternate hypothesis, H_1: $R_{SP} <$ or > 0 (there is a trend), is checked with the test statistic:

$$t_t = R_{SP}\left[\frac{n-2}{1-R_{SP}^2}\right]^{0.5}$$

where t_t has Student's t-distribution, with $\nu = n-2$ degrees of freedom. At a significant level of 5%, the time series has no trend if $t\{\nu, 2.5\%\} < t_t < t\{\nu, 97.5\%\}$ (Antonopoulous et al., 1998).

Monthly Spearman Trend Analysis

This test for trend uses Spearman's rank-correlation coefficient on the monthly values for each year, one month at a time, and provides a test for upward or downward trend over the years of record. The exact distribution of R_{SP} can be obtained for $n < 6$, from statistical tables found in Appendix A.

The matrix produced will then be evaluated for significant values using the table of critical values of the Spearman rank-correlation coefficient. A significant positive value of R_{SP} indicates an increasing trend while a significant negative value indicates a decreasing trend for that month. Significance was determined at four different levels: 5%, 2%, 1%, and 0.5%. A majority of months with either negative or positive values indicates trend for that individual water quality parameter (El-Shaarawi et al., 1983).

Overall Trend

To determine whether Agreement water quality parameter values have increased or decreased over the period of record, a summary matrix has been produced for each Agreement site comparing the total Spearman trend, the monthly Spearman trend, and the 12-month moving average trend. A majority of indicators of trend were used to determine the overall trend for each individual parameter.

Ranking of Agreement Water Quality Sites

The concept of clean water or acceptable levels of water quality varies depending on the use of the water. Water quality objectives or guidelines have been defined as the desirable levels of quality to be attained in receiving waters, and take into account many uses such as drinking water, aquatic life, recreation, agriculture and aesthetics (Forester, 2000).

To be able to compare the status of water quality between Agreement sites across the province, analysis was performed using the Canadian Water Quality Index (CWQI). The Provincial Water Quality Objectives, which are taken from the CCME water quality guidelines, were used to assess the environmental significance (CCME, 2002). Based on the CWQI values, trend analysis results, and knowledge of activity in the basins, water bodies can be ranked as pristine, semi-impaired and impaired for the following water uses: drinking water and aquatic life.

Results and Discussion

The outcome of the various analysis methods provided a comprehensive picture of the status and trends in water quality throughout the province. For each statistically significant trend, a possible explanation of its cause is made based on sources known to contribute to water pollution and activities ongoing in the watershed. Province-wide trends, along with localized trends were both observed.

Sources of Water Quality Trends

Various water quality problems exist due to the wide variety of needs and preferences in society for the use of surface water. The complexity of aquatic ecosystems further complicates the attainment of acceptable water quality. The most common water quality problems include (Sanders et al., 2000):

- Eutrophication from the abundance of nutrients
- Oxygen depletion from the degradation of organic matter
- Hygienic problems from the existence of pathogenic organisms
- Salinization due to high concentrations of ions such as calcium, sodium and chloride
- Acidification from atmospheric deposition
- The persistence of heavy metals, organiochlorides and other toxins
- High turbidity and high amounts of suspended material
- Thermal pollution

The following table identifies possible causes behind the increasing and decreasing water quality trends observed in the province.

Table 2- Potential Factors Affecting Water Quality

Cause	Explanation	Parameters Affected
Climate Change	Streamflow has an important effect on the level of many water quality indicators. Peak flows have increased levels of suspended solids and related indicators, while low flows are associated with increased levels of dissolved ions.	Turbidity Major Ions Conductivity
Abatement	Through greater awareness people are: using less harmful household products and disposing of them safely, using phosphate-free soaps and detergents, reducing or eliminating use of fertilizers and pesticides on lawn and garden, checking and repairing fluid leaks from vehicles, not putting toxic chemicals down the drain, forming community stewardship groups to care for local waterbodies and provide stream enhancement, etc.; Phosphorous Control Act; move to unleaded gasoline; buffer zone regulations; using silt screens on construction sites.	Metals Nutrients Major Ions Turbidity pH Dissolved Oxygen Conductivity
Farming	Runoff from farms treated with manure, fertilizer, lime, pesticides, herbicides, etc.; farming practices such as land clearing, tillage,	Nutrients Metals

	ploughing, irrigation, grazing, feedlots and animal corrals; aquaculture.	pH Turbidity Major Ions Dissolved Oxygen
Forestry	Increased runoff from disturbed land, removal of vegetation, road construction and use, timber harvesting, etc.; silviculture practices.	Turbidity Colour
Urban Development	Urban runoff from roofs, streets, parking lots, etc. carries by-products of human activity into receiving waters; overflow, cross-connections and leakage from sewer mains; corrosion of water pipes; local industries and businesses may discharge wastes to street gutters and storm drains; street cleaning; road salting; land clearing for new development and construction; water withdrawals; lawn care.	Nutrients Metals Turbidity Major Ions pH
Rural Sewage Systems	Overloading and malfunction of septic systems from rural housing or cabin developments.	Nutrients
Transportation	Roads, railways, pipelines, hydro-electric corridors, bridges, etc.; chemicals from motor vehicles.	Nutrients Turbidity Metals
Mining	Runoff from mines and mine wastes, quarries and test well sites; residuals from nitrogen-based explosives; acid mine drainage.	Turbidity pH Metals Major Ions Dissolved Oxygen
Landfill	Seepage from landfills and hazardous waste facilities. Deposition from incinerators.	Nutrients Metals pH Dissolved Oxygen
Recreation	Large variety of recreational land uses including ski resorts, boating and marinas, campgrounds, parks, tourist chalets, golf courses, hunting, cabin development, ATV and snowmobile trails, etc.	Nutrients Turbidity Metals
Atmospheric Deposition	Long range transport of atmospheric pollutants and deposition on land and water surfaces; acid rain; also reduction in atmospheric pollutants through international initiatives such as the ban on leaded gasoline.	Nutrients Metals pH Major Ions
Industry	Wastes and sludge from industries such as pulp and paper mills, saw mills, smelting, metal production or plating, etc.	Metals Colour Dissolved Oxygen
Sewage	Disposal of liquid wastes from municipal wastewater effluents, sewage sludge, industrial effluents and sludge, wastewater from home septic systems, cross-connections; legal and illegal dumping in water courses.	Nutrients Metals Turbidity Dissolved Oxygen
Stream Modification	Stream alterations such as dams, weirs, bridges, culverts, armoring, fish ladders, dredging, channelization; nutrients settle with suspended sediments in reservoirs while scouring occurs downstream of dams, flowing streams slow to form slack water pools.	Metals Dissolved Oxygen Nutrients Turbidity
Natural Sources	Local waterfowl populations; local geology; soil chemistry; forest fires; synergistic effects; flow conditions.	Major Ions Nutrients Metals Dissolved Oxygen pH Conductivity

It should be restated that the link between observed water quality trends and possible causes made in this report are not definitive. The purpose of linking possible causes to effects is for continuity, so that water

quality trends will not be viewed in a vacuum. The suggested causes and their impact on water quality, however, have been well documented in the past in watersheds in other jurisdictions. The assumption of causes made here are reasonable, based on similar observances and known characteristics and activity in the watershed.

Agreement Datasets Used for Trend Analysis

The Agreement datasets fell into 4 categories:

i) *Full Data Sets*- datasets with over 29 data points and greater than 6 years of data for each month of the year (for 6 or more individual months) for all parameters of interest

ii) *Partial Temporal Data Sets*- datasets with over 29 data points but less than 6 years of data for each month of the year for all parameters of interest

iii) *Partial Parameter Data Sets*- datasets with more than 29 data points and greater than 6 years of data for each month of the year (for 6 or more individual months) for some of the parameters of interest

iv) *Incomplete Data Sets*- datasets with less than 29 data points for all parameters of interest, not included in the analysis

The following tables describe which of the above categories all Agreement datasets fall into by region, including the period of record for each site.

Table 3- Categories of Agreement Sites in the Eastern Region Including Period of Record

Full Data Set	Partial Data Set-Temporal	Partial Data Set-Parameter	Incomplete Data Set
Waterford River-NF02ZM0009 Oct 1986-Oct 1999	Kellys Brook-NF02ZM0144 Dec 1990-Oct 1999	Pipers Hole River-NF02ZH0001 Jan 1986-Jun 2000	Waterford River-NF02ZM0182 Aug 1998-Oct 1999
Virginia River-NF02ZM0014 Oct 1986-Oct 1999	Garnish River-NF02ZG0016 Feb 1986-Aug 2000	Rocky River-NF02ZK0001 Jan 1986-Oct 2000	Waterford River-NF02ZM0175 Aug 1997-Oct 1999
Rennies River-NF02ZM0016 Oct 1986- Oct 1999	Mundy Pond-NF02ZM0109 Oct 1991-Aug 1999		South Brook-NF02ZM0185 Aug 1998-Oct 1999
Quidi Vidi Outlet-NF02ZM0015 Oct 1986-Oct 1999			South Brook-NF02ZM0176 Aug 1997-Oct 1999
Broad Cove Brook-NF02ZM0020 Oct 1986-Jun 1998			Waterford River-NF02ZM0181 Aug 1998-Oct 1999
Goulds Brook-NF02ZL0029 Jun 1989-Oct 1999			Virginia River-NF02ZM0098 Aug 1998-Oct 1999
Grand Bank Brook-NF02ZG0026 Jun 1989- Oct 1996			Virginia River-NF02ZM0180 Aug 1998-Oct 1999
Hearts Content Brook-NF02ZL0002 Oct 1986- Apr 1998			Virginia River-NF02ZM0179 Aug 1998-Oct 1999
Mobile River-NF02ZM0018 Oct 1986-Mar 1997			Learys Brook-NF02ZM0184 Aug 1998-Oct 1999
Northeast River-NF02ZK0005 Nov 1986-Oct 1999			Learys Brook-NF02ZM0178 Aug 1998- Oct 1999
Northwest Brook-NF02ZN0002			Rennies River-NF02ZM0177

Oct 1986-Aug 1999			Aug 1998-Oct 1999
Rattle Brook- NF02ZG0025 Oct 1986-Oct 1995			Kelligrews River- NF02ZM0183 Jul 1998-Oct 1999
Salmonier River- NF02ZN0004 Aug 1987-Oct 1999			Nut Brook- NF02ZM0186 Oct 1998- Aug 1999
Seal Cove River- NF02ZM0019 Oct 1986-Jun 1995			Waterford River- NF02ZM0004 Mar 1999-Oct 1999
Spout Cove Brook- NF02ZL0001 Oct 1986-Jun 1995			
Tides Brook- NF02ZG0024 Oct 1986-Aug 1999			
Raymond Brook- NF02ZM0017 Oct 1986-Aug 1999			

Table 4- Categories of Agreement Sites in the Central Region Including Period of Record

Full Data Set	Partial Data Set-Temporal	Partial Data Set-Parameter	Incomplete Data Set
Terra Nova River- NF02YS0012 Aug 1986-Aug 1995	Bay du Nord River- NF02ZF0020 May 1989-Aug 1995	Exploits River- NF02YO0001 Jan 1986-Sept 1999	Corduroy Brook- NF02YO0142 Mar 1995-Sept 1999
Bread Cove Brook- NF02YS0010 Aug 1986- Dec 1995	Jeddore Lake- NF02ZE0018 May 1989-July 1996	Indian Brook- NF02YM0001 Jan 1986-Mar 1997	Star Brook- NF02YN0036 Apr 1995-May 1997
Southern Bay River- NF02ZJ0024 Aug 1986-Aug 1999	Middle Brook- NF02YR0021 May 1989-Sept 1999		Exploits River- NF02YO0143 Mar 1999-Sept 1999
North West Gander River- NF02YQ0006 Aug 1986-Sept 1999	Exploits River- NF02YO0021 Nov 1986-Sept 1999		Exploits River- NF02YO0128 Mar 1999-Sept 1999
Gander River- NF02YQ0005 Aug 1986-Apr 1994			Northwest River- NF02YS0083 May 1999-Sept 1999
Pound Cove Brook- NF02YR0001 Aug 1986-Sept 1999			
Gander River- NF02YQ0030 Aug 1989-Sept 1999			
South West Brook- NF02YM0004 Aug 1986-July 1999			
Terra Nova River- NF02YS0001 Aug 1986-Sept 1999			
Exploits River- NF02YO0020 Aug 1986-Sept 1999			
Exploits River- NF02YO0107			

May 1989-Sept 1999			
Southwest Brook- NF02YS0005 Aug 1986-Sept 1999			
Terra Nova River NF02YS0011 Aug 1986-Sept 1999			

Table 5- Categories of Agreement Sites in the Western Region Including Period of Record

Full Data Set	Partial Data Set- Temporal	Partial Data Set- Parameter
Western Brook- NF02YE0005 Aug 1986-Jul 1999	Humber Canal- NF02YK0022 Apr 1989-Apr 1995	Harrys River- NF02YJ0006 Jan 1986-Sep 1998
Upper Humber- NF02YL0011 Aug 1986-Jun 1999	Wild Cove Brook- NF02YL0029 Jan 1989-Jul 1999	Grandys Brook- NF02ZC0001 Jan 1986-Oct 1999
Lower Humber- NF02YL0012 Aug 1986-Jun 1999	Ste Genevieve River- NF02YA0001 Jan 1989-Apr 1999	Grey River- NF02ZD0003 Jan 1986-Oct 1999
Lloyds River- NF02YN0001 Aug 1986-Apr 1997	White Bear River- NF02ZC0011 Jan 1989-Feb 1996	Isle aux Mort River- NF02ZB0001 Jan 1986-Sep 1999
Pinchgut Brook- NF02YJ0004 Aug 1986-Mar 1999		Torrent River- F02YC0001 Jan 1986-May 1999
Grand Codroy River- NF02ZA0006 Aug 1986-Mar 1999		
South Branch River- NF02ZA0001 Aug 1986-Jan 1997		
Cing Cerf Brook- NF02ZB0005 Dec 1986-Jun 1999		
Corner Brook- NF02YL0013 Aug 1986-Jul 1999		
Crabbes River- NF02ZA0007 Aug 1987-Mar 1999		
Lomond River- NF02YH0018 Aug 1986-Jul 1999		
Main River-NF02YG0001 Aug 1986-Apr 1999		
Portland Creek- NF02YE0004 Aug 1986-Feb 1997		

Table 6- Categories of Agreement Sites in the Labrador Region Including Period of Record

Partial Data Set- Temporal and Parameter	Incomplete Data Set
Churchill Falls- NF03OE0001 Jun 1986-Sep 2000	Naskaupi River- NF03PB0025 Oct 1998-Aug 2000
Eagle River- NF03QC0001 Jan 1986- Feb 2000	Little Mecatina River- NF02XA0001 Jan 2000-
	Ugjoktok River- NF03NF0013 Mar 1999-Aug 2000
	Atikonak River- NF03OC0012 Mar 1999-Jul 2000
	East Metchin River- NF02OD0011 Mar 1999-Dec 2000
	Minipi River- NF03OE0030

	Aug 1999-Jan 2000
	Pinus River- NF03OE0032 Aug 1999-Mar 2000
	Big Pond Brook- NF03OE0033 Aug 1999-
	Alexis River- NF03QC0002

Descriptive Statistics

Descriptive statistics of all water quality parameters for each Agreement sampling site, and a table of water quality parameter codes can be found in Appendix B. These tables provide useful summary information on the Agreement water quality data sets and are helpful for initial analyses. For example, a skewness value close to zero denotes a normal distribution. The majority of parameters do not have a skewness value close to zero.

12-Month Moving Averages

Time series plots, including the calculated 12-month moving averages, of all water quality parameters for each Agreement sampling site can be found in Appendix C. These plots support the observations of trend discussed below through visual inspection of the 12-month moving average trendline. Outliers and extreme values can also be observed by visual inspection of the time series plots. Parameters with the most frequent occurrence of outliers included: copper, zinc, turbidity, chromium, phosphorous, and nitrate/nitrite.

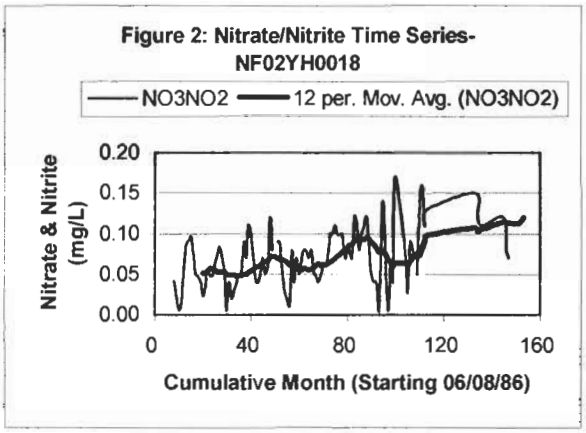


Figure 2: Nitrate/Nitrite Time Series- NF02YH0018

The adjacent figure illustrates increasing concentration in nitrate/nitrite over time, indicating a deteriorating trend in this parameter for Lomond River, located in the Western Region of the province. The cause of this increasing trend is most likely due to intensive cabin development around Bonne Bay Big Pond and Bonne Bay Little Pond, and problems associated with rural septic systems.

The figure to the right illustrates decreasing concentration in phosphorous over time, indicating an improving trend in this parameter for Quidi Vidi Lake at the outlet. This site is located in the Eastern Region of the province. The cause of this decreasing trend is due to control measures limiting the use of phosphorous in detergents and such implemented in the mid 1970's. Over time these control measures continued to grow stricter.

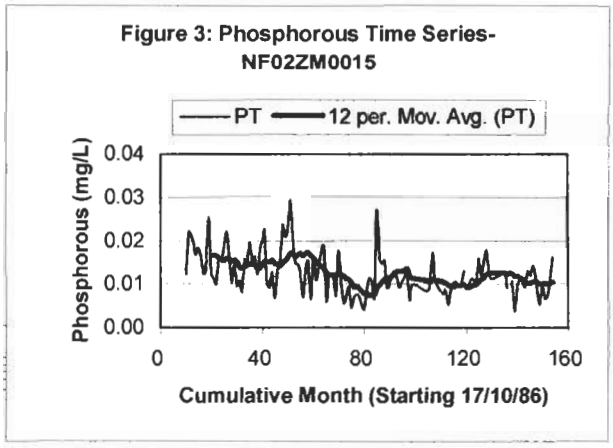
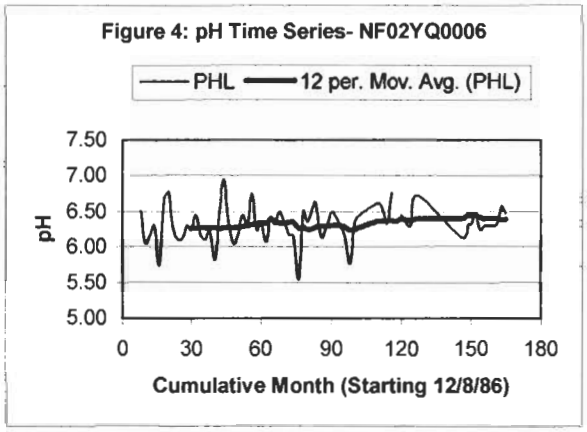


Figure 3: Phosphorous Time Series- NF02ZM0015



The figure to the left illustrates no change in pH over the period of record, indicating neither an improving nor deteriorating trend in this parameter for North West Gander River, located in the Central Region of the province.

Spearman Trend Analysis

Spearman trend analysis of the entire data series of each parameter for all Agreement water quality sampling sites can be found in Appendix D. For data sets of $n > 29$, values of the test statistic (t_t) between 0.196 and -0.196 are not significant, indicating no trend. Values of t_t greater than 0.196, or less than -0.196, indicate changes in that specific parameter over time at a certain rate.

Parameters with a highly significant test statistic values ($t_t < -3.5$ or $t_t > 3.5$) were observed in all regions except Labrador. Many parameters in the Eastern Region had three or more highly significant test statistic values, most notably nitrogen with seven, turbidity with nine, and molybdenum with ten. The highest test statistic value in the Eastern region was for potassium (-9.771) at Tides Brook. Many parameters in the Central Region had at least one highly significant test statistic value. Conductivity had the most at eight, followed by sodium at seven. The sampling site at Exploits River below Millertown Dam had very high test statistic values, with the highest for the region being for zinc (-20.394). Three parameters in particular dominated the Western Region for highly significant test statistic values- sodium with seven, turbidity with ten, and mercury with fourteen. The highest test statistic value in the Western region was for sodium (-10.329) at Portland Creek.

Monthly Spearman Trend Analysis

Matrices of monthly Spearman correlation coefficients for each parameter for all Agreement water quality sampling sites can be found in Appendix E. The Spearman correlation coefficient values are marked by stars (*) to indicate their level of significance. Parameters such as conductivity, colour, turbidity, sodium, and mercury frequently displayed the highest number of significant values.

Overall Trend

Tables summarizing the observed trends from the time series plots of 12-month moving averages, the Spearman trend analysis on the entire data sets, and the monthly spearman trend analysis for each parameter for all Agreement water quality sampling sites can be found in Appendix F. The three methods used here reinforce each other by either showing a consistent downward trend, upward trend, or no discernable trend at all. At no point were opposite trends indicated by the analysis. Generally, the more significant the overall Spearman trend, as indicated by the test statistic value, the higher the probability all three analysis methods agreed.

Provincial maps indicating the existence of improving, deteriorating or no observed trend for each parameter, for each Agreement water quality site, can be found in Appendix G.

Universal Trends Throughout the Province

Amongst the different parameters and parameter groupings several overall trends were detected. For this analysis, major ions were ignored individually, as they contribute collectivity to conductivity. Some of the observed trends include:

- A decrease (or improving trend) in **conductivity** and by extension, major ion concentration, (**calcium, sodium, magnesium, potassium, sulphate, chloride**) throughout the province.
- An increase (or deteriorating trend) in **colour** throughout the province.
- An increase (or deteriorating trend) in **turbidity** throughout the province.
- An increase (or deteriorating trend) in **nitrate/nitrite** and **nitrogen** throughout the province.
- A decrease (or improving trend) in **arsenic** throughout the province, more significantly in South Coast Rivers including the Avalon.
- A decrease (or improving trend) in **barium** throughout the province.
- An increase (or deteriorating trend) in **beryllium, cadmium** and **molybdenum** throughout the province. However, these three parameters had the highest occurrence of censored data that is believed to have had some influence on the trend analysis.
- A decrease (or improving trend) in **copper** throughout the province.
- A decrease (or improving trend) in **mercury** throughout the province.
- A decrease (or improving trend) in **lead** throughout the province.
- A decrease (or improving trend) in **phosphorous** in rivers of the Central and Easter Region.
- The occurrence of trend in **cobalt** and **manganese** (all showed a majority of improving trends) is most apparent in water quality stations from the Eastern Region.
- An increase (or deteriorating trend) in **nickel** in rivers in non-urban areas of the Avalon and eastern rivers of the Central Region.
- An increase (or deteriorating trend) in **sulphate** in urban rivers of St. John's.
- Frequent improving trends in **zinc**, **strontium**, **lithium**, and **selenium** throughout the province.

The following two figures give an indication of the observed universal trends for color and mercury throughout the province.

Figure 5: Trends in Colour in Canada-NL Water Quality Monitoring Agreement Sites

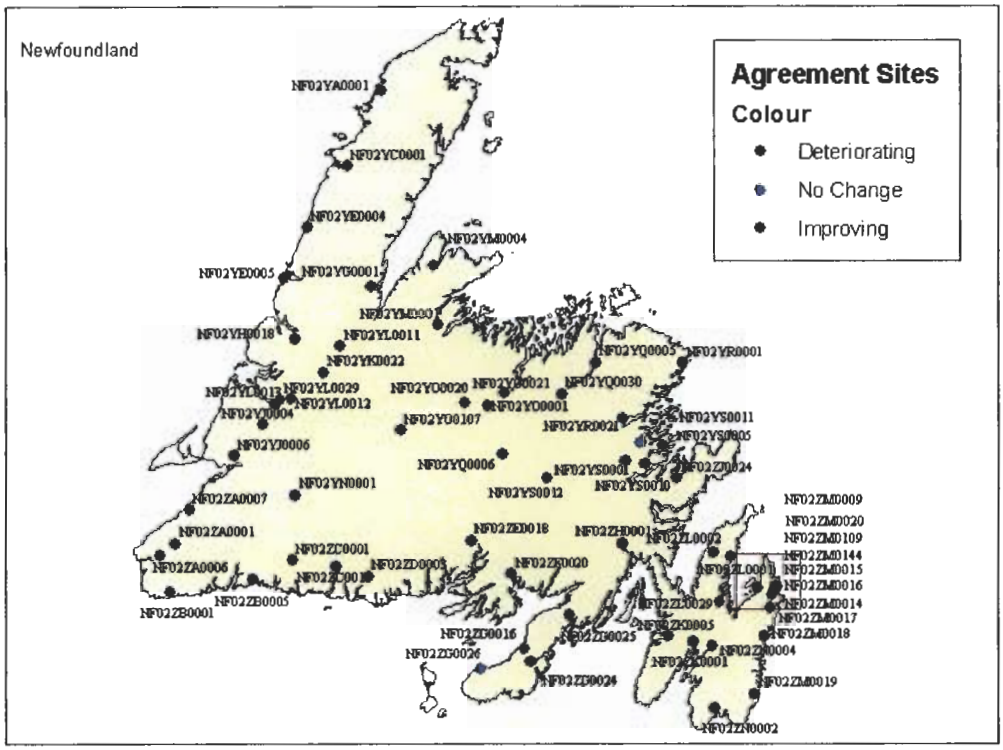
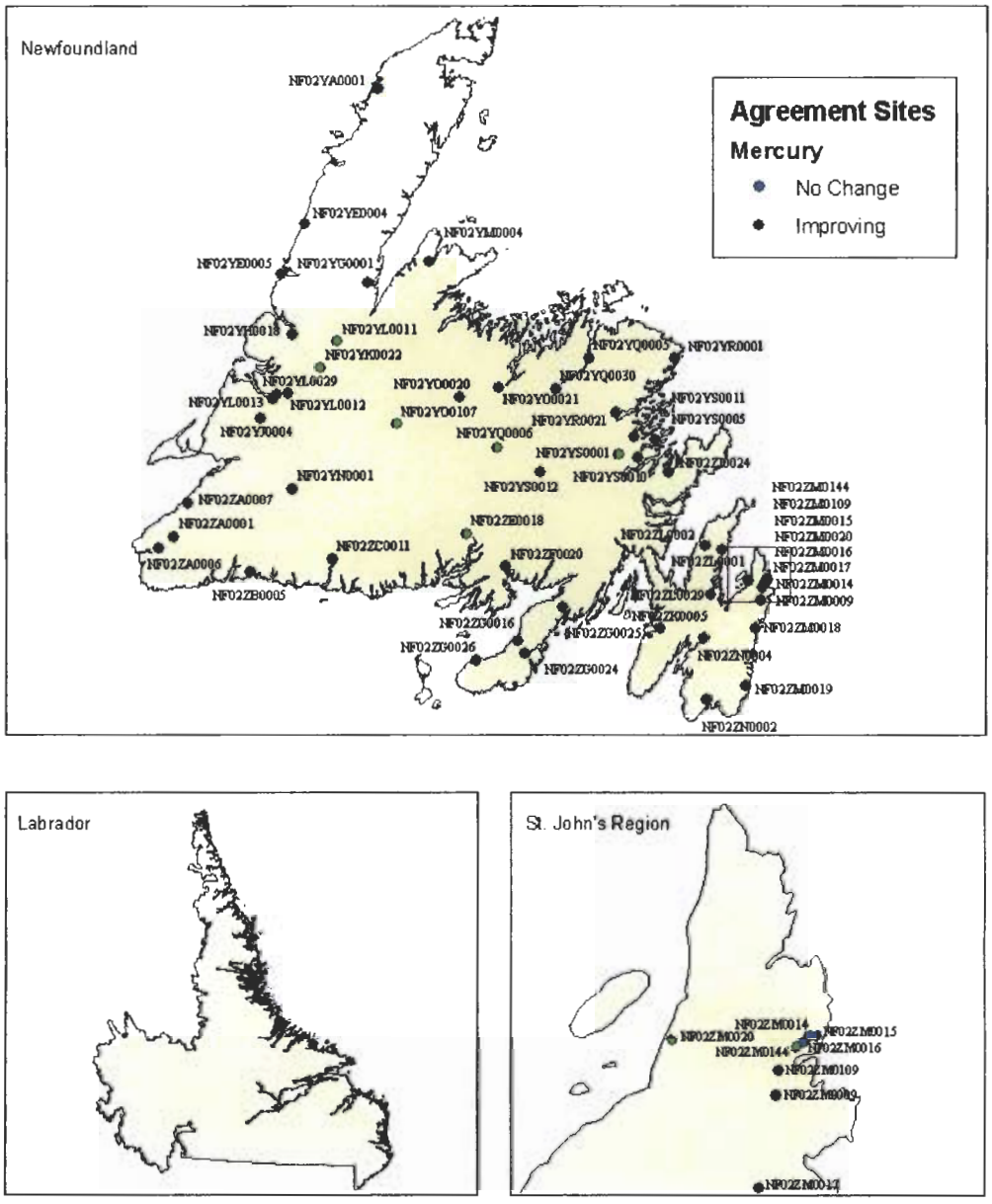


Figure 6: Trends in Mercury in Canada-NL Water Quality Monitoring Agreement Sites



Universal Sources of Water Quality Trends

To understand what could be causing observed trends in water quality parameters, watershed activities and levels of development for each river of interest were cross-referenced with known sources of water quality trends. The Department of Environment has catalogued watershed activities in a site documentation database. Several noticeable occurrences emerged from this analysis:

- Representative plots of precipitation since 1986 were generated for each region of the province (see Appendix H). From each region there was a noticeable upward trend in precipitation since 1986. In pristine watersheds where there was little development or activity, trends were frequently observed in major ions (and conductivity), turbidity, and colour. As these trends were observed in all regions of the province, their cause was linked to climate change. Increased precipitation leads to increased runoff, which in turn leads to decreased concentrations of major ions (and conductivity) and increased sediment loads, affecting turbidity and colour.

- Monitoring in pristine Arctic environments has revealed the presence of contaminants far from their source as a result of atmospheric deposition. Recent observations have shown reductions in lead levels, linked to reduced global emissions of lead into the atmosphere from leaded gasoline, since the 1970's. It has also revealed declining trends in zinc, declining trends in copper since 1991, and declining trends in mercury since 1990 (Indian & Northern Affairs Canada, 1997). These results were mirrored in many of the more pristine watersheds of Newfoundland. Copper, mercury and lead (and to a lesser extent barium, zinc, selenium, and arsenic) frequently displayed improving trends in watersheds with little human activity or development. The cause of these trends is most likely linked to reductions in the levels of contaminants from atmospheric deposition, due to improved emissions from pollution sources- local, continental and global.

- Phosphorous Control Acts were implemented in the mid 1970's and continued to reduce the amounts of phosphorous used in detergents throughout the 1980's. The results of this abatement are most evident in more populated urban areas (particularly St. John's).

- There are several river stewardship programs or societies, which try to promote, encourage, and maximize the ecological value of different rivers in the province. Such rivers include Virginia River, Rennies River, Waterford River, Cordroy Brook, and Corner Brook. These river societies plan river enhancement activities, including river restoration to facilitate fish spawning, alleviation of pollution, and the development of appropriate public access to the system. In many rivers, such programs have led to improved water quality through increased public awareness of harmful activities.

Rivers Displaying Similar Trends

A brief analysis was also performed to determine if there were any similarities in the observed trends of different rivers. In several cases, rivers with similar geography, or levels of watershed activity displayed remarkably similar trends. Groupings of rivers with observed similarities in water quality trends include:

- Significant improvements in water quality were observed in both Kelly's Brook and Mundy Pond, both urban sites located in St. John's.
- The St. John's urban Rennies River, Waterford River, Virgina River and Quidi Vidi Lake all displayed similar trends in the same water quality parameters.
- Rivers on the Burin Peninsula including Rattle Brook, Garnish River and more significantly Tides Brook and Grand Bank Brook displayed similar trends in the same water quality parameters.
- Rivers on the Avalon including Goulds Brook, Broad Cove Brook, Raymond Brook, Mobile River, Seal Cove River, Northwest Brook and Salmonier River displayed moderately similar trends in the same water quality parameters.
- Water quality stations throughout the Exploits River basin displayed similar trends, however, sites in the upper basin had a higher degree of similarity with each other, as did sites in the lower portion of the basin.
- Rivers in the Bonavista-Terra Nova-Trinity region including Pound Cove Brook, Middle Brook, Bread Cove Brook and South West Brook at Terra Nova National Park, and Southern Bay River all displayed similar trends in the same water quality parameters.
- In the Bay d'Espoir area of the South Coast, Bay du Nord River and Jeddore Lake displayed similar trends in the same water quality parameters.
- There was significant similarity in observed water quality trend characteristics in the Humber Valley-Gros Morne region. Observed groupings include: Western Brook, Portland Creek, Main

River and Lomond Brook; Upper Humber River, Lower Humber River and Humber Canal; Corner Brook and Pinchgut Brook. The rivers within groupings displayed more particular similarities, but links were also observed between groupings.

- Rivers along the South Coast including Cing Cerf Brook, White Bear River, Grandys Brook and Grey River displayed moderately similar trends in the same water quality parameters.
- Rivers in the St. George's region including Lloyds River, Crabbes River, South Branch River and Grand Codroy River displayed moderately similar trends in the same water quality parameters.
- Rivers in Labrador including Churchill River and Eagle River displayed moderately similar trends in the same water quality parameters.

Eastern Rivers

The following sections summarize results for the rivers of the Eastern Region of the province.

Hearts Content Brook

Hearts Content Brook displayed deteriorating colour and turbidity. It displayed deteriorating DOC. It also displayed deteriorating beryllium, cadmium and molybdenum. There was an improving trend in phosphorous. There was also an improving trend in barium, copper, mercury, lead, and selenium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, and also increasing turbidity, colour, and DOC. Small scale domestic harvesting of wood may also be affecting colour, turbidity and DOC. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Reductions in atmospheric deposition have affected metals such as copper, mercury and lead, and are likely influencing barium and selenium levels.

Table 7- Trend Summary for Hearts Content Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Colour	Climate Change/Forestry
Phosphorous	Abatement	Turbidity	Climate Change/Forestry
Barium	Atmospheric Deposition	Dissolved Organic Carbon	Climate Change/Forestry
Copper	Atmospheric Deposition	Beryllium	Censored
Mercury	Atmospheric Deposition	Cadmium	Censored
Lead	Atmospheric Deposition/ Abatement	Molybdenum	Censored
Selenium	Atmospheric Deposition		

Spout Cove Brook

Spout Cove Brook displayed deteriorating colour and turbidity. It displayed deteriorating DOC. It also displayed deteriorating iron and manganese. There was an improving trend in conductivity. There was an improving trend in phosphorous. There was also an improving trend in arsenic, mercury, lead, barium, copper, selenium, strontium, and vanadium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and the concentration of major ions, while increasing turbidity, colour and DOC. Small scale domestic harvesting of wood may also be affecting colour, turbidity and DOC. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Reductions in atmospheric deposition have affected metals such as copper, mercury and lead. Other improving trends in metals are attributed to atmospheric deposition, however other factors may have contributed. The cause of deteriorating trends in iron and manganese is unknown.

Table 8- Trend Summary for Spout Cove Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/Forestry
Sodium	Climate Change	Turbidity	Climate Change/Forestry

Magnesium	Climate Change	Dissolved Organic Carbon	Climate Change/Forestry
Chloride	Climate Change	Iron	Unknown
Phosphorous	Abatement	Manganese	Unknown
Arsenic	Atmospheric Deposition		
Barium	Atmospheric Deposition		
Copper	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Molybdenum	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Selenium	Atmospheric Deposition		
Strontium	Atmospheric Deposition		
Vanadium	Atmospheric Deposition		

Goulds Brook

Goulds Brook displayed deteriorating conductivity and colour. It also displayed a deteriorating trend in beryllium, cadmium, chromium, molybdenum, nickel, strontium and zinc. There was an improving trend in phosphorous, nitrate/nitrite and nitrogen. There is also an improving trend in aluminum, cobalt and manganese.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions like potassium, while increasing colour. The use of road salt on transportation corridors in this basin may be affecting conductivity, sodium and chloride. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. The cause of improving trends in metals such as aluminium, cobalt and manganese is most likely due to general abatement practices. Deteriorating trends in sulphate and metals like chromium, nickel, strontium and zinc are probably linked to urban development and transportation corridors located in the basin. The cause of improving nitrate/nitrite and nitrogen levels is unknown.

Table 9- Trend Summary for Goulds Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Climate Change	Colour	Climate Change
Phosphorous	Abatement	Conductivity	Transportation
Nitrate & Nitrite	Unknown	Sodium	Transportation
Nitrogen	Unknown	Chloride	Transportation
Aluminium	Abatement	Sulphate	Unknown / Urban Development
Cobalt	Abatement	Beryllium	Censored
Manganese	Abatement	Cadmium	Censored
		Molybdenum	Censored
		Chromium	Transportation/ Urban Development
		Nickel	Transportation/ Urban Development
		Strontium	Transportation/ Urban Development
		Zinc	Transportation/ Urban Development

Broad Cove Brook

Broad Cove Brook displayed deteriorating conductivity, colour and turbidity. It displayed deteriorating nitrogen. It also displayed deteriorating barium, beryllium, cadmium, lithium, molybdenum, nickel and zinc. There were improving trends in copper and mercury.

Reductions in atmospheric deposition have affected metals such as copper and mercury. Urban development has affected colour, turbidity, and increased levels of other metals such as barium, lithium, nickel, and zinc. The application of road salt has also affected major ion and conductivity levels. Farming activities in the basin may be linked to increasing levels of nitrogen. The degree of urbanization in this basin has increased in recent years, and has had a negative impact on water quality.

Table 10- Trend Summary for Broad Cove Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Copper	Atmospheric Deposition	Conductivity	Urban Development/ Transportation
Mercury	Atmospheric Deposition	Colour	Urban Development
		Turbidity	Urban Development
		Sodium	Transportation
		Chloride	Transportation
		Nitrogen	Farming
		Beryllium	Censored
		Cadmium	Censored
		Molybdenum	Censored
		Barium	Urban Development
		Lithium	Urban Development
		Nickel	Urban Development
		Zinc	Urban Development

Virginia River @ Outlet to Quidi Vidi

Virginia River displayed deteriorating colour and turbidity. It displayed deteriorating trends in nitrate/nitrite and nitrogen. It also displayed a deteriorating trend with molybdenum. There was an improving trend in pH. There was an improving trend in phosphorous. There were also improving trends in barium, beryllium, cobalt, selenium, strontium and zinc.

This site is located in the heart of St. John's and is heavily affected by urban development. The Virginia River Conservation Society has spearheaded the cleanup of this system promoting river enhancement and abatement of pollution causing practices. These activities have led to improving trends in metals such as barium, beryllium, cobalt, selenium, strontium and zinc. Abatement practices along with natural limestone geology, and lime application on lawns may have also influenced pH. Climate change has affected major ion concentration. Urban development, a couple of quarries, and extensive stream modification have influenced colour and turbidity. Increased nitrogen and nitrate/nitrite levels are also influenced by urban activities including fertilizing lawns and the presence of a major golf course.

Table 11- Trend Summary for Virginia River at Outlet to Quidi Vidi

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement/ Urban Development/ Natural Sources	Colour	Urban Development
Calcium	Climate Change	Turbidity	Urban Development / Mining/ Stream Modification
Magnesium	Climate Change	Sulphate	Urban Development
Phosphorous	Abatement	Nitrate & Nitrite	Urban Development / Recreation
Barium	Abatement	Nitrogen	Urban Development / Recreation
Beryllium	Abatement	Molybdenum	Censored
Cobalt	Abatement		
Selenium	Abatement		
Strontium	Abatement		
Zinc	Abatement		

Kelly's Brook

Kelly's Brook displayed a deteriorating trend in phosphorous. There was an improving trend in conductivity and colour. There was an improving trend in nitrogen. There were also improving trends in barium, beryllium, cadmium, cobalt, copper, iron, mercury, lithium, manganese and strontium.

Kelly's Brook had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Kelly's Brook is a highly polluted urban stream that has seen improvements in nearly all parameters as a result of cleanup of some sewer cross-connections, various abatement measures practiced by the population of St. John's, and a reduction in leachate over time from the old town landfill located in its headwaters. The stream is also entirely culverted, which may also be affecting some parameters. Phosphorous levels may be increasing as a result of urban activities, such as fertilizer application on the soccer and baseball fields in the Kelly's Brook headwaters, or sewer cross-connections.

Table 12- Trend Summary for Kelly's Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Colour	Stream Modification	Phosphorous	Urban Development/ Sewage
Conductivity	Stream Modification		
Calcium	Stream Modification		
Magnesium	Stream Modification		
Potassium	Stream Modification		
Sulphate	Stream Modification		
Chloride	Stream Modification		
Nitrogen	Stream Modification/ Abatement		
Barium	Stream Modification/ Abatement		
Beryllium	Stream Modification/ Abatement		
Cadmium	Stream Modification/ Abatement		
Cobalt	Stream Modification/ Abatement		
Copper	Stream Modification/ Abatement		
Iron	Stream Modification/ Abatement		
Mercury	Stream Modification/ Abatement		
Lithium	Stream Modification/ Abatement		
Manganese	Stream Modification/ Abatement		
Strontium	Stream Modification/ Abatement		

Rennies River @ Carnell Dr

Rennies River displayed a deteriorating trend in colour and turbidity. It displayed a deteriorating trend in DOC, nitrate/nitrite and nitrogen. It also displayed a deteriorating trend in lithium and molybdenum. There was an improving trend in pH. There was an improving trend in phosphorous. There was also an improving trend in barium, cadmium, cobalt, iron, manganese, lead and strontium.

This site is located in the heart of St. John's and is heavily affected by urban development. The Quidi Vidi-Rennies River Development Foundation has spearheaded the cleanup of this system promoting river enhancement and abatement of pollution causing practices. These activities have led to improving trends in metals such as barium, cadmium, cobalt, iron, manganese, lead and strontium. Abatement practices along with natural limestone geology, and lime application on lawns and farm fields may have also influenced pH. Climate change has affected major ion concentration. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Urban development has influenced colour, turbidity, sulphate and lithium. Increased nitrogen, nitrate/nitrite and DOC levels are influenced by urban activities such as lawn fertilizing, farming and a major golf course located in the basin.

Table 13- Trend Summary for Rennies River at Carnell Drive

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Farming/ Abatement/ Urban Development / Natural Sources	Colour	Urban Development
Magnesium	Abatement/ Climate	Turbidity	Urban Development

	Change		
Phosphorous	Abatement	Sulphate	Urban Development
Barium	Abatement	Dissolved Organic Carbon	Urban Development / Farming/ Recreation
Cadmium	Abatement	Nitrate & Nitrite	Urban Development / Farming/ Recreation
Cobalt	Abatement	Nitrogen	Urban Development / Farming/ Recreation
Iron	Abatement	Lithium	Urban Development
Manganese	Abatement	Molybdenum	Censored
Lead	Abatement/ Atmospheric Deposition		
Strontium	Abatement		

Mundy Pond

Mundy Pond displayed a deteriorating trend in DOC. There was an improving trend in conductivity, colour and turbidity. There was an improving trend in nitrogen. There were also improving trends in barium, beryllium, cadmium, cobalt, iron, lithium, manganese, strontium and zinc.

Mundy Pond had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Mundy Pond is a highly polluted urban waterbody that has seen improvements in nearly all parameters as a result of various abatement measures practiced by the population of St. John's. Dredging has occurred in Mundy Pond to remove gravel and debris, which may have resulted in increased dilution and mixing of parameters, and increased settling time. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and the concentration of major ions. DOC levels may be increasing as a result of urban activities affecting natural organic decay.

Table 14- Trend Summary for Mundy Pond

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Abatement/ Stream Modification/ Climate Change	Dissolved Organic Carbon	Urban Development/ Natural Sources
Magnesium	Abatement/ Stream Modification/ Climate Change		
Potassium	Abatement/ Stream Modification/ Climate Change		
Colour	Abatement/ Stream Modification		
Turbidity	Abatement/ Stream Modification		
Nitrogen	Abatement/ Stream Modification		
Barium	Abatement/ Stream Modification		
Beryllium	Abatement/ Stream Modification		
Cadmium	Abatement/ Stream Modification		
Cobalt	Abatement/ Stream Modification		
Iron	Abatement/ Stream Modification		
Lithium	Abatement/ Stream Modification		
Manganese	Abatement/ Stream Modification		
Strontium	Abatement/ Stream Modification		
Zinc	Abatement/ Stream Modification		

Waterford River @ Kilbride

Waterford River displayed deteriorating colour and turbidity. It displayed deteriorating DOC, nitrate/nitrite, nitrogen and silica. It also displayed deteriorating beryllium, lithium and molybdenum. There was an improving trend in pH. There was an improving trend in phosphorous. There was also an improving trend in cobalt, mercury, manganese and strontium.

This site is located within St. John's and is heavily affected by urban development. The Friends and Lobbyists of the Waterford River have spearheaded the cleanup of this system promoting river enhancement and abatement of pollution causing practices. These activities have led to improving trends in metals such as cobalt, mercury, manganese, and strontium. Reductions in levels of atmospheric deposition may also be affecting mercury. Abatement practices along with natural limestone geology, and lime application on lawns and farm fields may have also influenced pH. Climate change has affected major ion concentration. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Urban development and two major quarries have influenced colour, and turbidity. Urban development has also affected sulphate and lithium levels. Increased nitrogen, nitrate/nitrite, silica and DOC levels are influenced by a combination of urban activities such as lawn fertilizing, farming and sewage cross-connections.

Table 15- Trend Summary for Waterford River at Kilbride

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Farming/ Urban Development/ Abatement/ Natural Sources	Colour	Urban Development / Mining
Magnesium	Abatement/Climate Change	Turbidity	Urban Development / Mining
Phosphorous	Abatement	Sulphate	Urban Development
Cobalt	Abatement	Dissolved Organic Carbon	Urban Development / Farming
Mercury	Abatement/ Atmospheric Deposition	Nitrate & Nitrite	Farming/ Sewage/ Urban Development
Manganese	Abatement	Nitrogen	Farming/ Sewage/ Urban Development
Strontium	Abatement	Silica	Urban Development / Farming
		Beryllium	Censored
		Molybdenum	Censored
		Lithium	Urban Development

Quidi Vidi Lake Outlet

Quidi Vidi Lake displayed deteriorating colour and turbidity. It displayed deteriorating DOC, nitrate/nitrite and nitrogen. It also displayed deteriorating molybdenum. There was an improving trend in pH. There was an improving trend in phosphorous. There were also improving trends in barium, cobalt, iron, manganese, lead and strontium.

This site is located in the heart of St. John's and is heavily affected by urban development. The Quidi Vidi-Rennies River Development Foundation and Virginia River Conservation Society have spearheaded the cleanup of this system promoting river enhancement and abatement of pollution causing practices. These activities have led to improving trends in metals such as barium, cobalt, iron, manganese, lead and strontium. Abatement practices along with natural limestone geology, and lime application on lawns and farm fields may have also influenced pH. Climate change has affected major ion concentration. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Urban development, stream modification and quarrying activity have influenced colour and turbidity. Increased nitrogen, nitrate/nitrite and DOC levels are influenced by a combination of urban activities including fertilizing lawns and the presence of two golf courses, farming and sewage cross-connections.

Table 16- Trend Summary for Quidi Vidi Lake Outlet

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Farming/ Abatement/ Urban Development/ Natural Sources	Colour	Urban Development / Mining/ Stream Modification
Magnesium	Abatement/ Climate Change	Turbidity	Urban Development / Mining/ Stream Modification

Phosphorous	Abatement	Dissolved Organic Carbon	Urban Development / Farming
Barium	Abatement	Nitrate & Nitrite	Farming/ Sewage/ Recreation/ Urban Development
Cobalt	Abatement	Nitrogen	Farming/ Sewage/ Recreation/ Urban Development
Iron	Abatement	Molybdenum	Censored
Manganese	Abatement		
Lead	Abatement/ Atmospheric Deposition		
Strontium	Abatement		

Raymond Brook

Raymond Brook displayed deteriorating turbidity. It also displayed deteriorating beryllium, cadmium, molybdenum and nickel. There were improving trends in aluminium, arsenic, barium, cobalt, mercury, manganese and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity. Sub-urban development, wood harvesting and farming activity may also be affecting turbidity. Reductions in atmospheric deposition have affected metals such as arsenic, mercury and zinc. Other improving trends in metals are attributed to atmospheric deposition, however various abatement practices may have contributed. A combination of urban development and transportation corridors running through the basin has affected chloride and nickel levels.

Table 17- Trend Summary for Raymond Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Abatement/ Climate Change	Turbidity	Urban Development/ Climate Change/ Forestry/ Farming
Aluminium	Abatement/ Atmospheric Deposition	Chloride	Urban Development/ Transportation
Arsenic	Abatement/ Atmospheric Deposition	Beryllium	Censored
Barium	Abatement/ Atmospheric Deposition	Cadmium	Censored
Cobalt	Abatement/ Atmospheric Deposition	Molybdenum	Censored
Mercury	Abatement/ Atmospheric Deposition	Nickel	Transportation/ Urban Development
Manganese	Abatement/ Atmospheric Deposition		
Zinc	Abatement/ Atmospheric Deposition		

Mobile River

Mobile River displayed deteriorating colour and turbidity. It also displayed deteriorating silica. There was an improving trend in conductivity. There were also improving trends in cobalt, mercury, manganese and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration, while increasing turbidity, color and silica. Sewage outfall from a local high school, domestic wood harvesting and cabin development may also be affecting colour and turbidity. Reductions in atmospheric deposition have affected metals such as mercury and lead, and may also be influencing other improving metal trends.

Table 18- Trend Summary for Mobile River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Sewage/ Forestry/ Recreation
Sodium	Climate Change	Turbidity	Climate Change/ Sewage/ Forestry/ Recreation
Potassium	Climate Change	Silica	Climate Change
Chloride	Climate Change		
Cobalt	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Manganese	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		

Seal Cove River

Seal Cove River displayed a deteriorating trend in colour and turbidity. It also displayed deteriorating cobalt. There was an improving trend in phosphorous. There were also improving trends in chromium, copper, mercury and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and increasing color and turbidity. Domestic wood harvesting and cabin development may also be affecting colour and turbidity. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Reductions in atmospheric deposition have affected metals such as copper, mercury and lead, and may also be influencing the improving trend in chromium. The cause of increasing cobalt is unknown.

Table 19- Trend Summary for Seal Cove River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Phosphorous	Abatement	Colour	Climate Change/ Forestry/ Recreation
Chromium	Atmospheric Deposition	Turbidity	Climate Change/ Forestry/ Recreation
Copper	Atmospheric Deposition	Cobalt	Unknown
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition		

Northwest Brook

Northwest Brook displayed deteriorating colour and turbidity. It displayed deteriorating nitrogen. It also displayed deteriorating beryllium, cadmium, molybdenum, nickel and vanadium. There was an improving trend in conductivity. There were also improving trends in barium, copper, mercury and lithium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and potassium concentration, while increasing color and turbidity. Domestic wood harvesting may also be affecting colour and turbidity. Reductions in atmospheric deposition have affected metals such as copper and mercury, and may also be affecting barium and lithium. Nitrogen levels may be increasing due to leaking or faulty cabin septic systems. The cause of the increasing trend in nickel and vanadium is unknown.

Table 20- Trend Summary for Northwest Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Potassium	Climate Change	Turbidity	Climate Change/ Forestry
Barium	Atmospheric Deposition	Nitrogen	Rural Sewage Systems

Copper	Atmospheric Deposition	Beryllium	Censored
Mercury	Atmospheric Deposition	Cadmium	Censored
Lithium	Atmospheric Deposition	Molybdenum	Censored
		Nickel	Unknown
		Vanadium	Unknown

Salmonier River

Salmonier River displayed deteriorating colour and turbidity. It displayed deteriorating nitrogen. It also displayed deteriorating arsenic, beryllium, cadmium, chromium, molybdenum and nickel. There were improving trends in pH and conductivity. There was an improving trend in phosphorous. There were also improving trends in aluminium, barium, iron, mercury, lithium, strontium and vanadium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration, while increasing color and turbidity. Domestic wood harvesting and cabin development may also be affecting colour and turbidity. Reductions in atmospheric deposition and various abatement practices have affected metal levels. The cause of the improving trend in pH is likely due to general abatement practices and/or natural sources. Sewage outfall from the Salmonier Correctional Institute and faulty cabin septic systems may be affecting nitrogen levels. Major transportation corridors running through the basin are influencing metals like arsenic, chromium and nickel.

Table 21- Trend Summary for Salmonier River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement/ Natural Sources	Colour	Climate Change/ Forestry/ Recreation
Conductivity	Climate Change	Turbidity	Climate Change/ Forestry/ Recreation
Sodium	Climate Change	Nitrogen	Sewage
Potassium	Climate Change	Beryllium	Censored
Chloride	Climate Change	Cadmium	Censored
Phosphorous	Abatement	Molybdenum	Censored
Aluminium	Atmospheric Deposition/ Abatement	Arsenic	Transportation
Barium	Atmospheric Deposition/ Abatement	Chromium	Transportation
Iron	Atmospheric Deposition/ Abatement	Nickel	Transportation
Mercury	Atmospheric Deposition/ Abatement		
Lithium	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition/ Abatement		
Vanadium	Atmospheric Deposition/ Abatement		

Rocky River

Rocy River displayed deteriorating dissolved oxygen. It displayed deteriorating nitrate/nitrite and nitrogen. It also displayed deteriorating cadmium, chromium and copper. There was an improving trend in turbidity. There was also an improving trend in arsenic.

Rocky River had only a partial set of parameters in its dataset. Sewage outfall from the towns of Whitbourne and Markland, in addition to farming activity, lawn fertilizing, faulty septic systems and a golf course are affecting nitrogen and nitrate/nitrite levels. This nutrient loading is in turn affecting dissolved

oxygen levels. Sub-urban development and major transportation corridors running through the basin are affecting chromium and copper levels. The cause of the improving trend in turbidity is unknown. Reductions in atmospheric deposition may be responsible for the trend in arsenic.

Table 22- Trend Summary for Rocky River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Turbidity	Unknown	Dissolved Oxygen	Sewage
Arsenic	Atmospheric Deposition	Nitrogen	Sewage/ Farming/ Recreation/ Urban Development
		Nitrate & Nitrite	Sewage/ Farming/ Recreation/ Urban Development
		Chromium	Urban Development / Transportation
		Copper	Urban Development / Transportation
		Cadmium	Censored

Northeast River

Northeast River displayed deteriorating nitrogen. It also displayed deteriorating beryllium, cadmium, molybdenum and nickel. There was an improving trend in pH. There was an improving trend in phosphorous. There were also improving trends in lithium, lead and strontium.

Natural limestone geology is influencing pH levels. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Reductions in atmospheric deposition are affecting metals like lead, and are likely influencing lithium and strontium levels. Transportation corridors running through the basin are affecting chloride and nickel levels. Farming and faulty cabin septic systems may be affecting nitrogen.

Table 23- Trend Summary for Northeast River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources	Chloride	Transportation
Phosphorous	Abatement	Nitrogen	Farming/ Rural Sewage Systems
Lithium	Atmospheric Deposition	Beryllium	Censored
Lead	Atmospheric Deposition/ Abatement	Cadmium	Censored
Strontium	Atmospheric Deposition	Molybdenum	Censored
		Nickel	Transportation

Pipers Hole River

Pipers Hole River displayed deteriorating colour. It also displayed deteriorating DOC and nitrogen. There was an improving trend in conductivity. There was also an improving trend in arsenic.

Pipers Hole River had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration, while increasing color and DOC. Reductions in atmospheric deposition may have affected arsenic. Seepage from faulty cabin septic tanks may be affecting nitrogen levels.

Table 24- Trend Summary for Pipers Hole River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change
Calcium	Climate Change	Dissolved Organic Carbon	Climate Change
Magnesium	Climate Change	Nitrogen	Rural Sewage Systems

Sulphate	Climate Change		
Chloride	Climate Change		
Arsenic	Atmospheric Deposition		

Rattle Brook

Rattle Brook displayed deteriorating turbidity. There was an improving trend in phosphorous. There were also improving trends in arsenic, chromium, copper, mercury, lead and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing major ion concentration, while increasing turbidity. Reductions in atmospheric deposition have affected metals such as copper, mercury, lead and zinc, and are likely influencing arsenic and chromium. Phosphorous control measures have lead to an improving trend in this parameter.

Table 25- Trend Summary for Rattle Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Climate Change	Turbidity	Climate Change
Phosphorous	Abatement		
Arsenic	Atmospheric Deposition		
Chromium	Atmospheric Deposition		
Copper	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Zinc	Atmospheric Deposition		

Tides Brook

Tides Brook displayed deteriorating colour and turbidity. It displayed deteriorating nitrogen. It also displayed deteriorating cobalt, iron and molybdenum. There was an improving trend in conductivity. There was an improving trend in nitrate/nitrite. There were also improving trends in barium, copper, mercury, lead, strontium and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration, while increasing colour and turbidity. Quarrying activity may also be affecting colour and turbidity. Reductions in atmospheric deposition have affected metals such as copper, mercury, lead and zinc, and are likely influencing barium and strontium levels. Faulty cabin septic systems may be influencing nitrogen levels. The cause of deteriorating trends in cobalt and iron, and the improving trend in nitrate/nitrite is unknown.

Table 26- Trend Summary for Tides Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Mining
Sodium	Climate Change	Turbidity	Climate Change/ Mining
Potassium	Climate Change	Nitrogen	Rural Sewage Systems
Nitrate & Nitrite	Unknown	Cobalt	Unknown
Barium	Atmospheric Deposition	Iron	Unknown
Copper	Atmospheric Deposition	Molybdenum	Censored
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		
Zinc	Atmospheric Deposition		

Garnish River

Garnish River displayed deteriorating beryllium, copper and molybdenum. There were improving trends in arsenic and lead.

Garnish River had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Reductions in atmospheric deposition have affected arsenic and lead. The cause of the deteriorating trend in copper is unknown.

Table 27- Trend Summary for Garnish River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Arsenic	Atmospheric Deposition	Copper	Unknown
Lead	Atmospheric Deposition/ Abatement	Beryllium	Censored
		Molybdenum	Censored

Grand Bank Brook

Grand Bank Brook displayed improving conductivity. There was in an improving trend in nitrate/nitrite. There was also an improving trend in barium and mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration. Reductions in atmospheric deposition have affected metals such as mercury and possibly barium. The cause of the improving nitrate/nitrite trend is unknown.

Table 28- Trend Summary for Grand Bank Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change		
Sodium	Climate Change		
Magnesium	Climate Change		
Potassium	Climate Change		
Nitrate & Nitrite	Unknown		
Barium	Atmospheric Deposition		
Mercury	Atmospheric Deposition		

Central Rivers

The following sections summarize results for rivers in the Central Region of the province.

South West Brook at Baie Verte

South West Brook displayed deteriorating turbidity, nitrogen and beryllium. Conductivity and major ions displayed an improving trend. There was an improving trend in phosphorus. There were also improving trends in barium, mercury, lithium, molybdenum, lead and strontium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing turbidity. Forestry and quarrying activity in the basin may also be affecting turbidity. Reductions in atmospheric deposition have affected sulphate and metals such as mercury and lead, and are likely influencing improving trends in other metals. The trend in phosphorous can be linked to phosphorous control measures started in the 1970's. Leaks from sewers and lawn fertilizing are possibly contributing to increased nitrogen levels.

Table 29- Trend Summary for South West Brook at Baie Verte

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Turbidity	Climate Change/ Forestry/ Mining
Calcium	Climate Change	Nitrogen	Sewage/ Urban

			Development
Sodium	Climate Change	Beryllium	Censored
Magnesium	Climate Change		
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Phosphorous	Abatement		
Barium	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Molybdenum	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		

Indian Brook

Indian Brook displayed deteriorating colour and phosphorous. There was an improving trend in conductivity and most major ions.

Indian Brook has only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour. Forestry activity in the basin may also be affecting colour. Reductions in atmospheric deposition have also affected sulphate. Leaking septic systems from developments located near the sampling site, such as cottages and an Irving station, and farming activity may be contributing to increased phosphorous levels.

Table 30- Trend Summary for Indian Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Calcium	Climate Change	Phosphorous	Farming/ Rural Sewage Systems
Sodium	Climate Change		
Magnesium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		

Exploits River below Millertown Dam

Exploits River below the Millertown Dam displayed deteriorating beryllium and chromium. Conductivity and major ions displayed and improving trend. There was an improving trend in dissolved oxygen and pH. There was an improving trend in phosphorous, nitrogen and silica. There was also and improving trend in aluminium, arsenic, barium, cadmium, copper, mercury, manganese, lead, strontium and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration. Reductions in atmospheric deposition have affected sulphate and metals such as copper, mercury and lead. Over time effects of acid mine leachate from the now abandoned ASARCO zinc, copper and lead mine have lessoned, reducing metal and pH levels. The mine phased out operations beginning in 1979, until the doors were finally closed in 1984. Arsenic, mercury and cadmium are particularly associated with sulphide ores and are released during mining and refining operations. Abatement of mine effluent dumping has also increased dissolved oxygen levels. Phosphorous levels have improved due to phosphorous control measures started in the 1970's. Primary sewage treatment, in the form of lagoons installed in Buchan's Junction and Millertown in recent years, may have resulted in the improving trend in nitrogen. Transportation corridors running through the basin are possibly affecting chromium levels

Table 31- Trend Summary for Exploits River below Millertown Dam

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement	Beryllium	Censored
Dissolved Oxygen	Abatement	Chromium	Transportation
Conductivity	Climate Change		
Calcium	Climate Change		
Sodium	Climate Change		
Magnesium	Climate Change		
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Phosphorous	Abatement		
Nitrogen	Abatement		
Silica	Abatement		
Aluminium	Abatement/ Atmospheric Deposition		
Arsenic	Abatement/ Atmospheric Deposition		
Barium	Abatement/ Atmospheric Deposition		
Cadmium	Abatement/ Atmospheric Deposition		
Copper	Abatement/ Atmospheric Deposition		
Mercury	Abatement/ Atmospheric Deposition		
Manganese	Abatement/ Atmospheric Deposition		
Lead	Abatement/ Atmospheric Deposition		
Strontium	Abatement/ Atmospheric Deposition		
Zinc	Abatement/ Atmospheric Deposition		

Exploits River at Aspen Brook Park

Exploits River at Aspen Brook Park displayed deteriorating colour. There was an improving trend in conductivity and most major ions. There was and improving trend in phosphorous. There was also an improving trend in arsenic, barium, copper, mercury, lithium, manganese, lead, strontium and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour. Forestry activity in the basin may also be affecting colour. Reductions in atmospheric deposition have affected sulphate and metals such as copper, mercury and lead. Over time effects of acid mine leachate from the now abandoned ASARCO zinc, copper and lead mine have lessened, reducing metal and pH levels. The mine phased out operations beginning in 1979, until the doors were finally closed in 1984. Arsenic, mercury and cadmium are particularly associated with sulphide ores and are released during mining and refining operations. Phosphorous levels have improved due to phosphorous control measures started in the 1970's.

Table 32- Trend Summary for Exploits River at Aspen Brook Park

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement	Colour	Climate Change/ Forestry
Conductivity	Climate Change		
Calcium	Climate Change		
Sodium	Climate Change		
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Phosphorous	Abatement		
Arsenic	Abatement/ Atmospheric Deposition		

Barium	Abatement/ Atmospheric Deposition		
Copper	Abatement/ Atmospheric Deposition		
Mercury	Abatement/ Atmospheric Deposition		
Lithium	Abatement/ Atmospheric Deposition		
Manganese	Abatement/ Atmospheric Deposition		
Lead	Abatement/ Atmospheric Deposition		
Strontium	Abatement/ Atmospheric Deposition		
Zinc	Abatement/ Atmospheric Deposition		

Exploits River at Grand Falls

Exploits River at Grand Falls displayed deteriorating colour. It also displayed deteriorating nitrate/nitrite and nitrogen. There was an improving trend in conductivity and most major ions. There was an improving trend in turbidity and pH. There was also an improving trend in arsenic.

The Exploits River at Grand Falls has only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration. Reductions in atmospheric deposition have also affected sulphate and possibly arsenic. Over time effects of acid mine leachate from the now abandoned ASARCO zinc, copper and lead mine have lessened, reducing arsenic and pH levels. In the past, the Abitibi Consolidated pulp and paper mill in Grand Falls discharged general mill wastes including sulphite waste liquor, wash water, and water spillage, all containing wood fiber. Today, no sulphite is used in the milling process, and much has been done to significantly reduce the amount of wood fiber released into the Exploits. These improvements in effluent waste may be reflected in some of the water quality trends, however the deteriorating trend in colour is most likely due to mill effluent. The Exploits is also used as receiving waters for sewage effluent from communities such as Badger and Grand Falls-Windsor, affecting nitrogen and nitrate/nitrite levels. The process of floating logs down tributaries and the Exploits River to the mill was stopped in 1994, which may be responsible for the improving trend in turbidity. Closing of the former municipal landfill waste disposal site in 1990, located 3km upstream from this sampling site on the bank of the Exploits River, may also be influencing improving trends.

Table 33- Trend Summary for Exploits River at Grand Falls

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement	Colour	Industry/ Climate Change
Turbidity	Abatement	Nitrate & Nitrite	Sewage
Conductivity	Climate Change/ Abatement	Nitrogen	Sewage
Calcium	Climate Change/ Abatement		
Sodium	Climate Change/ Abatement		
Magnesium	Climate Change/Abatement		
Sulphate	Climate Change/ Atmospheric Deposition/ Abatement		
Chloride	Climate Change/ Abatement		
Arsenic	Abatement/ Atmospheric Deposition		

Exploits River at Bishop Falls

Exploits River at Bishop Falls displayed deteriorating colour. It also displayed deteriorating nitrate/nitrite and beryllium. There was an improving trend in conductivity and sulphate. There was also an improving trend in pH. Phosphorous also displayed an improving trend along with arsenic, barium, copper, lithium, strontium, vanadium and zinc.

Exploits River at Bishops Falls had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and sulphate concentration. Reductions in atmospheric deposition

have also affected sulphate and metals such as copper, lead and zinc. Over time effects of acid mine leachate from the now abandoned ASARCO zinc, copper and lead mine have lessened, reducing metal and pH levels. The closing in 1990 of the former Grand Falls landfill site, on the bank of the Exploits River, has also influenced improving trends in water quality at this site. Effluent discharged into the Exploits River from the Abitibi Consolidated pulp and paper mill in Grand Falls is affecting colour. The Exploits is also used as receiving waters for sewage effluent from communities such as Badger, Grand Falls-Windsor and Bishops Falls, affecting nitrate/nitrite levels.

Table 34- Trend Summary for Exploits River at Bishop Falls

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Abatement	Colour	Industry/ Climate Change
Conductivity	Climate Change/ Abatement	Nitrate & Nitrite	Sewage
Sulphate	Climate Change/ Atmospheric Deposition/ Abatement	Beryllium	Censored
Phosphorous	Abatement		
Arsenic	Abatement/ Atmospheric Deposition		
Barium	Abatement/ Atmospheric Deposition		
Copper	Abatement/ Atmospheric Deposition		
Lithium	Abatement/ Atmospheric Deposition		
Lead	Abatement/ Atmospheric Deposition		
Strontium	Abatement/ Atmospheric Deposition		
Vanadium	Abatement/ Atmospheric Deposition		
Zinc	Abatement/ Atmospheric Deposition		

North West Gander River

North West Gander River displayed deteriorating beryllium and cadmium. There was an improving trend in potassium and sulphate. There was an improving trend in phosphorous. Metals such as arsenic, barium, copper, mercury and lithium also displayed an improving trend.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing potassium and sulphate concentration. Reductions in atmospheric deposition have also affected sulphate and metals such as copper and mercury, and possibly other metals as well. The cause of the improving trend in phosphorous is most likely from natural geological sources.

Table 35- Trend Summary for North West Gander River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Climate Change	Beryllium	Censored
Sulphate	Climate Change/ Atmospheric Deposition	Cadmium	Censored
Phosphorous	Natural Sources		
Aluminium	Atmospheric Deposition		
Arsenic	Atmospheric Deposition		
Barium	Atmospheric Deposition		
Copper	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Vanadium	Atmospheric Deposition		

Gander River at Appleton

Gander River at Appleton displayed deteriorating beryllium, cadmium, molybdenum and vanadium. There was an improving trend in conductivity and half the major ions. There was also an improving trend in aluminium, arsenic, barium, iron, lithium and strontium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration. Reductions in atmospheric deposition may have affected the observed improving trends in metals. A combination of landfill leachate and sewage effluent from the communities of Appleton, Glenwood, Benton and Gander may be influencing vanadium.

Table 36- Trend Summary for Gander River at Appleton

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Beryllium	Censored
Calcium	Climate Change	Cadmium	Censored
Magnesium	Climate Change	Molybdenum	Censored
Potassium	Climate Change	Vanadium	Landfill/ Sewage
Aluminium	Atmospheric Deposition		
Arsenic	Atmospheric Deposition		
Barium	Atmospheric Deposition		
Iron	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Strontium	Atmospheric Deposition		

Gander River

Gander River displayed deteriorating turbidity and magnesium. It also displayed deteriorating dissolved organic carbon and nitrogen. Metals like iron and nickel also displayed deteriorating trends. There was an improving trend observed in sodium, potassium and the metal cadmium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing major ion concentration, while increasing turbidity and DOC. Reductions in atmospheric deposition have affected cadmium levels. Sewage effluent from Appleton, Glenwood, Benton and Gander is affecting nitrogen levels. A combination of landfill leachate and sewage effluent from these communities may also be influencing magnesium, iron and nickel levels. Runoff from transportation routes through the basin may also be affecting iron and nickel.

Table 37- Trend Summary for Gander River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Turbidity	Climate Change
Potassium	Climate Change	Magnesium	Landfill/ Sewage
Cadmium	Atmospheric Deposition	Dissolved Organic Carbon	Climate Change
		Nitrogen	Sewage
		Iron	Transportation/ Landfill/ Sewage
		Nickel	Transportation/ Landfill/ Sewage

Pound Cove Brook

Pound Cove Brook displayed deteriorating colour, turbidity and pH. It also displayed deteriorating trends in nitrogen and cadmium. There was and improving trend in conductivity, calcium and sulphate. There was and improving trend in phosphorus. There was also an improving trend in copper, lithium, nickel, lead and selenium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing turbidity and colour. Forestry activity in the basin may also be affecting colour and turbidity. Reductions in atmospheric deposition have also affected sulphate and metals such as copper and lead. It may also be influencing improving trends in other metals. Seepage from faulty cabin septic tanks may be affecting nitrogen levels. Natural geological sources may be responsible for the decrease in both phosphorous and pH.

Table 38- Trend Summary for Pound Cove Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Calcium	Climate Change	Turbidity	Climate Change/ Forestry
Sulphate	Climate Change/ Atmospheric Deposition	pH	Natural Sources
Phosphorous	Natural Sources	Nitrogen	Rural Sewage Systems
Copper	Atmospheric Deposition	Cadmium	Censored
Lithium	Atmospheric Deposition		
Nickel	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Selenium	Atmospheric Deposition		

Middle Brook

Middle Brook displayed deteriorating turbidity and pH. It also displayed deteriorating beryllium, cadmium, nickel and zinc. There was an improving trend in conductivity, most major ions and dissolved oxygen. There was an improving trend in silica. There was also an improving trend in mercury, lithium, lead, strontium and vanadium.

Middle Brook had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing turbidity. Quarrying activity in the basin may also be affecting turbidity. Reductions in atmospheric deposition have also affected sulphate and metals such as mercury and lead. It may also be influencing improving trends in other metals. Natural geological sources may be responsible for the decrease in pH. Transportation routes running through the basin may be influencing nickel and zinc levels. The cause of improving dissolved oxygen and silica is unknown. This sampling site is in relatively shallow water and water quality may be significantly impacted by low flows.

Table 39- Trend Summary for Middle Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Dissolved Oxygen	Unknown	Turbidity	Climate Change/ Mining
Conductivity	Climate Change	pH	Natural Sources
Calcium	Climate Change	Beryllium	Censored
Sodium	Climate Change	Cadmium	Censored
Magnesium	Climate Change	Nickel	Transportation
Potassium	Climate Change	Zinc	Transportation
Sulphate	Climate Change/ Atmospheric Deposition		
Silica	Unknown		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		
Vanadium	Atmospheric Deposition		

Terra Nova River at Newton Lake

Terra Nova River at Newton Lake displayed deteriorating turbidity and cadmium. There was and improving trend in half the major ions and dissolved organic carbon. There was also an improving trend in mercury, lead and strontium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing major ion concentration, and increasing turbidity. Reductions in atmospheric deposition have affected metals such as mercury and lead, and possibly strontium. The cause of decreasing DOC is most likely due to natural factors.

Table 40- Trend Summary for Terra Nova River at Newton Lake

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Turbidity	Climate Change
Magnesium	Climate Change	Cadmium	Censored
Potassium	Climate Change		
Dissolved Organic Carbon	Natural Sources		
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		

Terra Nova River at Terra Nova

Terra Nova River at Terra Nova displayed deteriorating turbidity. There were deteriorating trends in half the major ions. There was a deteriorating trend in nitrate/nitrite, nitrogen and silica. There was also a deteriorating trend in beryllium and cadmium. There were improving trends in mercury and selenium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, and increasing turbidity and silica. Forestry and quarrying activity in the basin may also be affecting turbidity levels. Reductions in atmospheric deposition have affected metals such as mercury and possibly selenium. The cause of increasing calcium, potassium and chloride is most likely linked to the Terra Nova landfill. Faulty or leaking septic systems from the community of Terra Nova are influencing nitrogen and nitrate/nitrite levels.

Table 41- Trend Summary for Terra Nova River at Terra Nova

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Mercury	Atmospheric Deposition	Turbidity	Climate Change/ Forestry/ Mining
Selenium	Atmospheric Deposition	Calcium	Landfill
		Potassium	Landfill
		Chloride	Landfill
		Nitrate & Nitrite	Rural Septic Systems
		Nitrogen	Rural Septic Systems
		Silica	Climate Change
		Beryllium	Censored
		Cadmium	Censored

Terra Nova River at E.S. Spencer Bridge

Terra Nova River at E.S. Spencer Bridge displayed deteriorating turbidity. It also displayed deteriorating beryllium, cadmium, cobalt and iron. There was an improving trend in magnesium, mercury and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing magnesium, while increasing turbidity. Forestry and quarrying activity in the basin may also be affecting turbidity levels. Reductions in atmospheric deposition have affected metals such as mercury and lead. A combination of leachate from the Terra Nova landfill and runoff from transportation routes may be affecting cobalt and iron levels. A railway bridge comprised of steel and iron is situated upstream from this sampling site. Corrosion of this bridge may also be influencing increasing iron levels at this site.

Table 42- Trend Summary for Terran Nova River at E.S. Spencer Bridge

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Magnesium	Climate Change	Turbidity	Climate Change/ Forestry/ Mining
Mercury	Atmospheric Deposition	Beryllium	Censored
Lead	Atmospheric Deposition/ Abatement	Cadmium	Censored
		Cobalt	Landfill/ Transportation
		Iron	Landfill/ Transportation

Bread Cove Brook

Bread Cove Brook displayed deteriorating colour, turbidity and pH. It also displayed deteriorating aluminium. There was an improving trend in conductivity and most major ions. There was also an improving trend in copper, mercury, lithium, lead, strontium and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour and turbidity. Forestry and quarrying activity in the basin may also be affecting turbidity levels. Reductions in atmospheric deposition have affected metals such as copper, mercury, lead and zinc. It may also be influencing lithium and strontium levels. Natural geological sources may be influencing pH levels. The source of increasing aluminium is unknown.

Table 43- Trend Summary for Bread Cove Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change
Calcium	Climate Change	Turbidity	Climate Change/ Forestry/ Mining
Sodium	Climate Change	pH	Natural Sources
Magnesium	Climate Change	Aluminium	Unknown
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Copper	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Lead	Atmospheric Deposition		
Strontium	Atmospheric Deposition		
Zinc	Atmospheric Deposition		

South West Brook at Terra Nova National Park

South West Brook at Terra Nova National Park displayed deteriorating colour and turbidity. It also displayed deteriorating beryllium and molybdenum. There was an improving trend in conductivity and most major ions. There was an improving trend in phosphorous. Metals such as barium, cadmium, cobalt, chromium, lithium, lead, strontium and vanadium also displayed improving trends.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour and turbidity. Forestry activity in the basin may also be affecting turbidity and colour. Reductions in atmospheric deposition have affected sulphate and metals such as cadmium and lead. It may also be influencing improving trends in other metals. Natural geological sources may be influencing phosphorous levels.

Table 44- Trend Summary for South West Brook at Terra Nova National Park

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry

Calcium	Climate Change	Turbidity	Climate Change/ Forestry
Sodium	Climate Change	Beryllium	Censored
Magnesium	Climate Change	Molybdenum	Censored
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Phosphorous	Natural Sources		
Barium	Atmospheric Deposition		
Cadmium	Atmospheric Deposition		
Cobalt	Atmospheric Deposition		
Chromium	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		
Vanadium	Atmospheric Deposition		

Southern Bay River

Southern Bay River displayed deteriorating colour and turbidity. It also displayed deteriorating beryllium, cadmium, molybdenum and nickel. There was an improving trend in conductivity, sodium and chloride. There was also an improving trend in phosphorous. Metals such as copper, mercury and lead also displayed improving trends.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour and turbidity. Forestry activity in the basin may also be affecting turbidity and colour. Reductions in atmospheric deposition have affected metals such as copper, mercury and lead. Natural geological sources may be influencing phosphorous levels. Transportation routes running through the basin may be influencing nickel levels.

Table 45- Trend Summary for Southern Bay River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Sodium	Climate Change	Turbidity	Climate Change/ Forestry
Chloride	Climate Change	Beryllium	Censored
Phosphorous	Natural Sources	Cadmium	Censored
Copper	Atmospheric Deposition	Molybdenum	Censored
Mercury	Atmospheric Deposition	Nickel	Transportation
Lead	Atmospheric Deposition/ Abatement		

Bay du Nord River

Bay du Nord River displayed improving trends in half the major ions. There was an improving trend in dissolved organic carbon. There was also an improving trend in mercury, lithium, lead, selenium and strontium.

Bay du Nord River had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, and decreasing major ion concentration. Reductions in atmospheric deposition have affected metals such as mercury and lead, and possibly other metals. The cause of decreasing DOC is most likely due to natural factors.

Table 46- Trend Summary for Bay du Nord River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Calcium	Climate Change		
Sodium	Climate Change		
Potassium	Climate Change		
Dissolved Organic Carbon	Natural Sources		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Selenium	Atmospheric Deposition		
Strontium	Atmospheric Deposition		

Jeddore Lake

Jeddore Lake displayed deteriorating silica and zinc. There was an improving trend in conductivity and most major ions. There was also and improving trend in mercury, lithium and strontium.

Jeddore Lake had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing silica. Reductions in atmospheric deposition have affected metals such as mercury, and possibly lithium and strontium. The increase in zinc is most likely due to natural factors.

Table 47- Trend Summary for Jeddore Lake

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Silica	Climate Change
Calcium	Climate Change	Zinc	Natural Sources
Sodium	Climate Change		
Magnesium	Climate Change		
Potassium	Climate Change		
Mercury	Atmospheric Deposition		
Lithium	Atmospheric Deposition		
Strontium	Atmospheric Deposition		

Western Rivers

The following sections summarize results for rivers in the Western and Labrador Regions of the province.

Ste Genevieve River

Ste Genevieve River displayed deteriorating nitrate/nitrite and nitrogen. It also displayed deteriorating beryllium, cadmium, cobalt, chromium, molybdenum, nickel, lead, vanadium and zinc. There was an improving trend in aluminium.

Ste. Genevieve River had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions. Reductions in atmospheric deposition have also affected sulphate. Cabin development and faulty septic systems around Ten Mile Lake and Round Lake have contributed to the nutrient loading. The increase in certain metals may be related to the network of dams used for flow control in this watershed. The cause of the improving trend in aluminium and deteriorating trend in potassium is unknown.

Table 48- Trend Summary for Ste. Genevieve River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Potassium	Unknown
Sulphate	Climate Change/ Atmospheric Deposition	Nitrate & Nitrite	Rural Sewage Systems
Chloride	Climate Change	Nitrogen	Rural Sewage Systems
Aluminium	Unknown	Beryllium	Censored
		Cadmium	Censored
		Molybdenum	Censored
		Cobalt	Stream Modification
		Chromium	Stream Modification
		Nickel	Stream Modification
		Lead	Stream Modification
		Vanadium	Stream Modification
		Zinc	Stream Modification

Torrent River

Torrent River displayed deteriorating colour. It also displayed deteriorating nitrogen. There was an improving trend in conductivity and turbidity. There was also an improving trend in arsenic.

Torrent River had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing colour. Forestry activity may also be affecting colour. Reductions in atmospheric deposition have also affected sulphate and possibly arsenic. The practice of transporting logs down Torrent River to Hawke's Bay by Bowater Inc. ceased in the early 60's and may be responsible for the improving trend in turbidity. The source of deteriorating nitrogen is unknown.

Table 49- Trend Summary for Torrent River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Sodium	Climate Change	Nitrogen	Unknown
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Turbidity	Abatement		
Arsenic	Atmospheric Deposition		

Portland Creek

Portland Creed displayed deteriorating colour and turbidity. It displayed deteriorating DOC, nitrate/nitrite and nitrogen. It also displayed deteriorating aluminium, beryllium, cadmium, cobalt, iron, manganese, molybdenum and nickel. There were improving trends in pH and conductivity. There were also improving trends in barium, copper, mercury, lead and selenium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and major ion concentration, while increasing DOC, turbidity and colour. Forestry activity may also be affecting colour and turbidity. Reductions in atmospheric deposition have affected sulphate and certain metals including copper, mercury and lead, and possibly barium and selenium. The improving trend in pH is likely due to natural geological conditions. Cabin development and faulty septic systems around Portland Creek Pond have contributed to nutrient loading. No obvious explanation can be found for the increase in other metals in Portland Creek, unless it is a natural phenomena. The cause of the deteriorating trend in calcium is unknown.

Table 50- Trend Summary for Portland Creek

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources	Colour	Climate Change/ Forestry
Conductivity	Climate Change	Turbidity	Climate Change/ Forestry
Sodium	Climate Change	Calcium	Unknown
Potassium	Climate Change	Dissolved Organic Carbon	Climate Change
Sulphate	Climate Change/ Atmospheric Deposition	Nitrate & Nitrite	Rural Sewage Systems
Chloride	Climate Change	Nitrogen	Rural Sewage Systems
Barium	Atmospheric Deposition	Aluminium	Unknown/ Natural Sources
Copper	Atmospheric Deposition	Beryllium	Unknown/ Natural Sources
Mercury	Atmospheric Deposition	Cadmium	Unknown/ Natural Sources
Lead	Atmospheric Deposition/ Abatement	Cobalt	Unknown/ Natural Sources
Selenium	Atmospheric Deposition	Iron	Unknown/ Natural Sources
		Manganese	Unknown/ Natural Sources
		Molybdenum	Unknown/ Natural Sources
		Nickel	Unknown/ Natural Sources

Western Brook

Western Brook displayed deteriorating colour and turbidity. It displayed deteriorating nitrate/nitrite, nitrogen and silica. It also displayed deteriorating aluminium, arsenic, beryllium and cadmium. There were improving trends in pH and conductivity. There were also improving trends in copper, mercury and strontium.

pH is possibly affected by the natural limestone geology of the watershed. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing conductivity and major ion concentration, while increasing turbidity, colour, DOC and silica. Reductions in atmospheric deposition have affected certain metals including copper, mercury, and possibly strontium. Other metals displaying deteriorating trends are likely affected by the operation of boat tours in Western Brook Pond during the summer season. The septic systems at the tourist chalets in Western Brook Pond might be influencing nitrate/nitrite and nitrogen levels.

Table 51- Trend Summary for Western Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources	Colour	Climate Change
Conductivity	Climate Change	Turbidity	Climate Change
Sodium	Climate Change	Dissolved Organic Carbon	Climate Change
Chloride	Climate Change	Nitrate & Nitrite	Rural Sewage Systems/ Recreation
Copper	Atmospheric Deposition	Nitrogen	Rural Sewage Systems/ Recreation
Mercury	Atmospheric Deposition	Silica	Climate Change
Strontium	Atmospheric Deposition	Beryllium	Censored
		Cadmium	Censored
		Molybdenum	Censored
		Aluminium	Recreation
		Arsenic	Recreation
		Cobalt	Recreation

Main River

Main River displayed deteriorating colour and turbidity. It also displayed deteriorating beryllium. There was an improving trend in conductivity. There was also an improving trend in copper, mercury and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions and conductivity, while increasing turbidity and colour. Forestry might also be affecting colour and turbidity. Reductions in atmospheric deposition have also affected sulphate and certain metals including copper, mercury and lead.

Table 52- Trend Summary for Main River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Forestry
Sodium	Climate Change	Turbidity	Climate Change/ Forestry
Potassium	Climate Change	Beryllium	Censored
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Copper	Atmospheric Deposition		
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		

Lomond Brook

Lomond Brook displayed deteriorating colour, turbidity and pH. It displayed deteriorating DOC, nitrate/nitrite, nitrogen and silica. It also displayed deteriorating beryllium, cadmium and molybdenum. There was an improving trend in barium, copper and mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity, colour, DOC and silica. Forestry, cabin development, and several quarries might also be affecting colour and turbidity. Reductions in atmospheric deposition have affected certain metals including copper, mercury, and possibly barium. Cabin development and faulty septic systems around Bonne Bay Big Pond and Bonne Bay Little Pond have contributed to deteriorating nitrate/nitrite and nitrogen levels.

Table 53- Trend Summary for Lomond Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Colour	Climate Change/ Forestry/ Recreation/ Mining
Potassium	Climate Change	Turbidity	Climate Change/ Forestry/ Recreation/ Mining
Chloride	Climate Change	pH	Unknown
Barium	Atmospheric Deposition	Dissolved Organic Carbon	Climate Change
Copper	Atmospheric Deposition	Nitrate & Nitrite	Rural Sewage Systems
Mercury	Atmospheric Deposition	Nitrogen	Rural Sewage Systems
		Silica	Climate Change
		Beryllium	Censored
		Cadmium	Censored
		Molybdenum	Censored

Upper Humber River

The Upper Humber River displayed deteriorating colour and turbidity. It also displayed deteriorating beryllium, cadmium and molybdenum. There was an improving trend in mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity and colour.

Forestry activity is also affecting turbidity and colour. Reductions in atmospheric deposition have also affected sulphate and mercury.

Table 54- Trend Summary for Upper Humber River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Colour	Climate Change/ Forestry
Sulphate	Climate Change/ Atmospheric Deposition	Turbidity	Climate Change/ Forestry
Mercury	Atmospheric Deposition	Beryllium	Censored
		Cadmium	Censored
		Molybdenum	Censored

Humber Canal

The Humber Canal displayed deteriorating turbidity and dissolved oxygen. It also displayed deteriorating nitrate/nitrite. There was an improving trend in pH. There was also an improving trend in arsenic and mercury.

pH is affected by the natural limestone geology of the watershed. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity. Forestry and the presence of several quarries in the basin might also be affecting turbidity. Reductions in atmospheric deposition have affected metals like mercury, and possibly arsenic. Road salt from Deer Lake is possibly affecting chloride levels. Sewage inputs are influencing nitrate/nitrite levels, which in turn are affecting dissolved oxygen levels. The extensive stream alteration in this basin from dams and canals might also be affecting dissolved oxygen.

Table 55- Trend Summary for Humber Canal

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources	Turbidity	Climate Change/ Forestry/ Mining
Sodium	Climate Change	Dissolved Oxygen	Sewage/ Stream Modification
Arsenic	Atmospheric Deposition	Chloride	Urban/ Transportation
Mercury	Atmospheric Deposition	Nitrate & Nitrite	Sewage

Lower Humber River

The Lower Humber River displayed deteriorating colour, turbidity and dissolved oxygen. It displayed deteriorating nitrate/nitrite, nitrogen and silica. It also displayed deteriorating iron. There was an improving trend in pH. There was also an improving trend in barium, mercury and lead.

pH is influenced by the natural limestone geology in this watershed and the application of lime for farming purposes. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity, colour and silica. Forestry, farming, several quarries, and urban development from Pasadena and Deer Lake are also affecting colour and turbidity. Reductions in atmospheric deposition have affected metals such as mercury, lead, and possibly barium. Increasing nitrate/nitrite and nitrogen levels are a result of farming, and sewage effluent from communities upstream, which is in turn affecting dissolved oxygen levels. Iron levels might possibly be affected by leachate from landfills in the basin or from stream alterations such as hydro dams and bridges.

Table 56- Trend Summary for Lower Humber River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources/ Farming	Colour	Climate Change/ Forestry/ Farming/ Urban Development
Sodium	Climate Change	Turbidity	Climate Change/ Forestry/ Farming/ Mining/ Urban Development

Potassium	Climate Change	Dissolved Oxygen	Farming/ Sewage
Barium	Atmospheric Deposition	Calcium	Farming
Mercury	Atmospheric Deposition	Nitrate & Nitrite	Farming/ Sewage
Lead	Atmospheric Deposition	Nitrogen	Farming/ Sewage
		Silica	Farming/ Climate Change
		Iron	Landfill/ Stream Modification

Wild Cove Brook

Wild Cove Brook displayed deteriorating turbidity, dissolved oxygen and pH. It displayed a deteriorating trend in DOC, nitrate/nitrite and nitrogen. It also displayed a deteriorating trend in aluminium, barium, iron, lithium, nickel, and zinc. There was an improving trend in arsenic and mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and increasing turbidity. Reductions in atmospheric deposition have affected metals like mercury and possibly arsenic. Leachage from the Corner Brook Landfill and Genesis Organics bark pile are affecting other metals, pH, dissolved oxygen and nutrients. Bird populations that frequent the area might also be affecting nitrate/nitrite and nitrogen levels.

Table 57- Trend Summary for Wild Cove Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Arsenic	Atmospheric Deposition	Turbidity	Climate Change/ Landfill
Mercury	Atmospheric Deposition	Dissolved Oxygen	Landfill
		pH	Landfill
		Potassium	Landfill
		Dissolved Organic Carbon	Landfill
		Nitrate & Nitrite	Landfill/ Natural
		Nitrogen	Landfill/ Natural
		Aluminium	Landfill
		Barium	Landfill
		Iron	Landfill
		Lithium	Landfill
		Nickel	Landfill
		Zinc	Landfill

Corner Brook

Corner Brook displayed deteriorating colour and turbidity. It displayed deteriorating trends in DOC, nitrate/nitrite and nitrogen. It also displayed a deteriorating trend in aluminium. There were improving trends in copper, mercury and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, increasing turbidity, colour and DOC. Forestry activity and several quarries are also affecting colour and turbidity. Reductions in atmospheric deposition are affecting metals such as copper, mercury and lead. Urban development in the City of Corner Brook is affecting nutrient levels as is runoff from the Corner Brook golf course. Metals such as aluminium and iron are possibly related to hydro dams and reservoirs in the watershed, urban activity, and transportation routes including pipeline and hydroelectric corridors.

Table 58- Trend Summary for Corner Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Copper	Atmospheric Deposition	Colour	Climate Change/ Forestry/ Mining
Mercury	Atmospheric Deposition	Turbidity	Climate Change/Forestry/ Mining
Lead	Atmospheric Deposition/	Dissolved Organic	Climate Change

	Abatement	Carbon	
		Nitrate & Nitrite	Urban/ Recreation
		Nitrogen	Urban/ Recreation
		Aluminium	Stream Modification/ Urban Development/ Transportation
		Iron	Stream Modification/ Urban Development/ Transportation

Pinchgut Brook

Pinchgut Brook displayed deteriorating colour, turbidity, dissolved oxygen and pH. It displayed a deteriorating trend in DOC, nitrate/nitrite and silica. It also displayed deteriorating trends in beryllium, cadmium and molybdenum. There were improving trends in barium, copper, mercury, lead and zinc.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of major ions, while increasing turbidity, colour, DOC and silica. Forestry and cabin development along Pinchgut Lake might also be influencing colour and turbidity. Reductions in atmospheric deposition are affecting sulphate and metals such as copper, mercury, lead and zinc, and possibly barium. Faulty septic systems might be influencing nitrate/nitrate levels, which in turn are affecting dissolved oxygen levels. The cause of the deteriorating trend in pH is unknown.

Table 59- Trend Summary for Pinchgut Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Colour	Climate Change/ Forestry/ Recreation
Potassium	Climate Change	Turbidity	Climate Change/ Forestry/ Recreation
Sulphate	Climate Change/ Atmospheric Deposition	Dissolved Oxygen	Rural Sewage Systems
Chloride	Climate Change	pH	Unknown
Barium	Atmospheric Deposition	Dissolved Organic Carbon	Climate Change
Copper	Atmospheric Deposition	Nitrate & Nitrite	Rural Sewage Systems
Mercury	Atmospheric Deposition	Silica	Climate Change
Lead	Atmospheric Deposition/ Abatement	Beryllium	Censored
Zinc	Atmospheric Deposition	Cadmium	Censored
		Molybdenum	Censored

Harry's River

Harry's River displayed deteriorating colour. It displayed a deteriorating trend in phosphorous. It also displayed a deteriorating trend in beryllium and cadmium. There was an improving trend in dissolved oxygen and conductivity. There was an improving trend in nitrate/nitrite. There was also an improving trend in arsenic.

Harry's River had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and the concentration of major ions, while increasing colour. Forestry activity may also be contributing to the trend in colour. Reductions in atmospheric deposition may also be affecting sulphate and arsenic levels. The cause of the improving trend in nitrate/nitrite and dissolved oxygen, and deteriorating trend in phosphorous is unknown.

Table 60- Trend Summary for Harry's River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Dissolved Oxygen	Unknown	Colour	Climate Change/ Forestry

Conductivity	Climate Change	Phosphorous	Unknown
Sodium	Climate Change	Beryllium	Censored
Magnesium	Climate Change	Cadmium	Censored
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Nitrate & Nitrite	Unknown		
Arsenic	Atmospheric Deposition		

Lloyds River

Lloyds River displayed deteriorating turbidity and dissolved oxygen. It displayed a deteriorating trend in nitrate/nitrite. It also displayed a deteriorating trend in beryllium, cadmium, cobalt and vanadium. There was an improving trend in copper and mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing the concentration of major ions, and increasing turbidity. Forestry, several quarries and mineral exploration might also be affecting turbidity. Reductions in atmospheric deposition are affecting metals such as copper and mercury. Several parameters in Lloyds River displayed trends with no obvious source.

Table 61- Trend Summary for Lloyds River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sodium	Climate Change	Turbidity	Climate Change/ Forestry/ Mining
Potassium	Climate Change	Dissolved Oxygen	Unknown
Copper	Atmospheric Deposition	Nitrate & Nitrite	Unknown
Mercury	Atmospheric Deposition	Beryllium	Censored
		Cadmium	Censored
		Cobalt	Unknown
		Vanadium	Unknown

Crabbes River

Crabbes River displayed deteriorating turbidity. It also displayed deteriorating beryllium, manganese and molybdenum. There was an improving trend in pH. There was an improving trend in DOC. There was also an improving trend in copper and selenium.

pH is affected by natural limestone geology in the watershed. Reductions in atmospheric deposition are affecting metals such as copper and possibly selenium. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and increasing turbidity. Farming and forestry activity might also be affecting turbidity. Manganese levels might be affected by the South Branch landfill. The cause of the improving trend in DOC is unknown.

Table 62- Trend Summary for Crabbes River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
pH	Natural Sources	Turbidity	Climate Change/ Forestry/ Farming
Dissolved Organic Carbon	Unknown	Beryllium	Censored
Copper	Atmospheric Deposition	Molybdenum	Censored
Selenium	Atmospheric Deposition	Manganese	Landfill

South Branch River

South Branch River displayed a deteriorating trend in turbidity. It also displayed deteriorating beryllium and manganese. There was an improving trend in conductivity. There was also and improving trend in mercury and lead.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and the concentration of major ions, while increasing turbidity. Forestry and farming activity might also be affecting turbidity. Reductions in atmospheric deposition are influencing trend in metals such as mercury and lead. Manganese levels might be affected by the South Branch landfill.

Table 63- Trend Summary for South Branch River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Turbidity	Climate Change/ Forestry/ Farming
Calcium	Climate Change	Beryllium	Censored
Sodium	Climate Change	Manganese	Landfill
Potassium	Climate Change		
Mercury	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		

Grand Codroy River

Grand Codroy River displayed deteriorating turbidity. It displayed a deteriorating trend in silica. It also displayed a deteriorating trend in molybdenum and nickel. There was an improving trend in conductivity. There were also improving trends in arsenic, barium, copper, lead and strontium.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and the concentration of major ions, while increasing turbidity and silica. Forestry and several quarries might also be contributing to turbidity. Reductions in atmospheric deposition may be affecting sulphate, and metals such as copper, lead, and possibly arsenic, barium and strontium. Runoff from the TCH may be affecting the trend in nickel.

Table 64- Trend Summary for Grand Codroy River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Turbidity	Climate Change/ Forestry/ Mining
Calcium	Climate Change	Silica	Climate Change
Sodium	Climate Change	Molybdenum	Censored
Magnesium	Climate Change	Nickel	Transportation
Potassium	Climate Change		
Sulphate	Climate Change/ Atmospheric Deposition		
Chloride	Climate Change		
Arsenic	Atmospheric Deposition		
Barium	Atmospheric Deposition		
Copper	Atmospheric Deposition		
Lead	Atmospheric Deposition/ Abatement		
Strontium	Atmospheric Deposition		

Isle aux Mort River

Isle aux Mort River displayed a deteriorating trend in phosphorous. There was an improving trend in conductivity and turbidity.

Isle aux Mort River had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow and decreasing the concentration of conductivity and major ions. The cause of the improving trend in turbidity and deteriorating trend in phosphorous is unknown.

Table 65- Trend Summary for Isle aux Mort River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Phosphorous	Unknown
Calcium	Climate Change		
Magnesium	Climate Change		
Turbidity	Unknown		

Cing Cerf Brook

Cing Cerf Brook displayed deteriorating trends in turbidity and dissolved oxygen. It also displayed a deteriorating trend in phosphorous. There was an improving trend in arsenic and mercury.

Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing the concentration of major ions, and increasing turbidity. Activities at the Hope Brook Gold Mine might also be affecting turbidity and manganese. Reductions in atmospheric deposition may be affecting metals such as mercury and possibly arsenic. Sewage effluent from the mine residence or mining activity itself may be affecting phosphorous levels, which in tern are affecting dissolved oxygen levels.

Table 66- Trend Summary for Cing Cerf Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Climate Change	Turbidity	Climate Change/ Mining
Arsenic	Atmospheric Deposition	Phosphorous	Sewage/ Mining
Mercury	Atmospheric Deposition	Manganese	Mining
		Dissolved Oxygen	Sewage/ Mining

Grandys Brook

Grandys Brook displayed deteriorating colour. It also displayed a deteriorating trend in beryllium and cadmium. There was an improving trend in conductivity. There was also an improving trend in arsenic and barium.

Grandy's Brook had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and the concentration of major ions, while increasing colour. Reductions in atmospheric deposition may be affecting metals such as arsenic and barium.

Table 67- Trend Summary for Grandys Brook

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change
Magnesium	Climate Change	Beryllium	Censored
Floride	Climate Change	Cadmium	Censored
Arsenic	Atmospheric Deposition		
Barium	Atmospheric Deposition		

White Bear River

White Bear River displayed deteriorating turbidity and dissolved oxygen. It also displayed deteriorating trends in cobalt, chromium and molybdenum. There was an improving trend in nitrate/nitrite. There was also an improving trend in arsenic, iron, mercury and selenium.

White Bear River had only a partial temporal dataset, which means only 2 out of the 3 trend analysis methods could be used, possibly affecting the number of parameters displaying trends. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing the concentration of major ions, and increasing turbidity. Reductions in atmospheric deposition may be affecting metals such as mercury and possibly arsenic, and selenium. Other metals such as cobalt

and chromium may be influenced by the hydroelectric developments in the watershed, including the construction of dams, reservoirs and electric corridors for transmission lines. Dissolved oxygen may be affected by slack water held in the reservoirs. The cause of improving nitrate/nitrite is unknown.

Table 68- Trend Summary for White Bear River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Potassium	Climate Change	Turbidity	Climate Change
Nitrate & Nitrite	Unknown	Cobalt	Stream Modification/ Transportation
Arsenic	Atmospheric Deposition	Chromium	Stream Modification/ Transportation
Iron	Atmospheric Deposition	Molybdenum	Censored
Mercury	Atmospheric Deposition	Dissolved Oxygen	Stream Modification
Selenium	Atmospheric Deposition		

Grey River

Grey River displayed deteriorating colour. There was an improving trend in conductivity. There was also an improving trend in arsenic.

Gray River had only a partial set of parameters in its dataset. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing conductivity and the concentration of major ions, while increasing colour. Reductions in atmospheric deposition may be affecting arsenic levels. Hydroelectric development in this basin as part of the Bay d'Espoir generating station may also be influencing colour.

Table 69- Trend Summary for Grey River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Conductivity	Climate Change	Colour	Climate Change/ Stream Modification
Sodium	Climate Change		
Magnesium	Climate Change		
Potassium	Climate Change		
Chloride	Climate Change		
Arsenic	Atmospheric Deposition		

Labrador Rivers

The following sections summarize results for rivers in the Labrador Region of the province.

Churchill River

Churchill River displayed deteriorating colour. It also displayed a deteriorating trend in potassium and nitrogen. There was an improving trend in sulphate.

Churchill River had only a partial data set in terms of parameters and sufficient period of record. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, decreasing the concentration of major ions, and increasing colour. Reductions in atmospheric deposition may also be affecting sulphate. Urban development in the towns of Labrador City, Wabush and Deer Lake may also be influencing colour and nitrogen levels through sewage inputs. Iron ore mining and hydroelectric developments on the Churchill River may be contributing to colour as well. The source increasing potassium is unknown.

Table 70- Trend Summary for Churchill River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Sulphate	Climate Change/ Atmospheric Deposition	Colour	Climate Change/ Stream Alteration/ Mining

		Potassium	Unknown
		Nitrogen	Sewage

Eagle River

Eagle River displayed a deteriorating trend in nitrate/nitrite and nitrogen. There was an improving trend in turbidity, sulphate and chloride.

Eagle River had only a partial dataset in terms of parameters and sufficient period of record. Changes in climate since 1986 have resulted in an increasing trend in precipitation across the province, affecting streamflow, and decreasing the concentration of major ions. Reductions in atmospheric deposition may also be affecting sulphate. Wastewater from several outfitter camps may be contributing to nutrient levels. The cause of improving turbidity is uknown.

Table 71- Trend Summary for Eagle River

Improving Trend	Cause of Trend	Deteriorating Trend	Cause of Trend
Turbidity	Unknown	Nitrate & Nitrite	Recreation
Sulphate	Climate Change/ Atmospheric Deposition	Nitrogen	Recreation
Chloride	Climate Change		

Categorization of Agreement Water Quality Sites

The categorization of Agreement water quality sites as pristine, semi-impaired and impaired is based on four factors:

- The period of record and completeness of the data set for all parameters of interest
- The number of improving and deteriorating trends among water quality parameters
- The CWQI value based on the water quality guidelines for aquatic use and the associated ranking of all Agreement sites based on this value
- Development pressures within the watershed

The scheme used for ranking sites is a subjective one that takes into account all the above factors. For example, the Waterford River at Kilbride has a dataset going back to 1986, displayed 10 deteriorating trends and 7 improving trends, had an aquatic WQI value of 67 (out of 100), was ranked 54th out of the 65 Agreement water quality sites according to aquatic WQI values, and is under medium development pressure. Because the dataset was full, there were more deteriorating trends than improving trends, the WQI value was only fair, the river was ranked in the bottom twenty percent of Agreement sites, and the basin is under moderate development pressure, the river was categorized as impaired.

Summary tables of the number of improving and deteriorating trends for each Agreement water quality site can be found in Appendix I. Summary tables of the CWQI values for each Agreement site can also be found in Appendix I. As can be seen from the CWQI ranking summary table below, the highest ranked or more pristine rivers are heavily weighted with rivers from the Western Region. Rivers from the Central Region display a fairly even distribution from pristine to impaired. Rivers from the Eastern Region are more heavily weighted in the center and bottom end of the water quality index ranking.

Table 72- Water Quality Index Ranking

Ranking	Site Name	Site Number	Aquatic CWQI
1	Lomond River	YH0018	88
2	Ste. Genevieve River	YA0001	87
3	Indian Brook	YM0001	87
4	Torrent River	YC0001	86
5	Pinchgut Brook	YJ0004	83
6	Exploits River (@ Grand Falls)	YO0001	81
7	Gander River (@ Appleton)	YQ0030	81
8	Corner Brook	YL0013	79
9	Grey River	ZD0003	79
10	Lloyds River	YN0001	79
11	Lower Humber	YL0012	79
12	Spout Cove Brook	ZL0001	78
13	Harrys River	YJ0006	78
14	Cing Cerf Brook	ZB0005	78
15	Gander River	YQ0005	78
16	Hearts Content Brook	ZL0002	77
17	Goulds Brook	ZL0029	77
18	Salmonier River	ZN0004	77
19	Humber Canal	YK0022	77
20	White Bear River	ZC0011	77
21	Isle aux Mort River	ZB0001	75
22	Portland Creek	YE0004	75
23	Tides Brook	ZG0024	74
24	Rattle Brook	ZG0025	74
25	Seal Cove River	ZM0019	74
26	Northwest Brook	ZN0002	74
27	Raymond Brook	ZM0017	74
28	Eagle River	QC0001	74
29	Grand Codroy	ZA0006	74
30	South Branch River	ZA0001	74
31	Bread Cove Brook	YS0010	74
32	Mobile River	ZM0018	73
33	Middle Brook	YR0021	73
34	Southern Bay River	ZJ0024	73
35	Grand Bank Brook	ZG0026	72
36	Northeast River	ZK0005	72
37	South West Brook (@ Baie Verte)	YM0004	72
38	Jeddore Lake	ZE0018	72
39	Western Brook	YE0005	71
40	Grandys Brook	ZC0001	71
41	South West Brook (@ Terra Nova Park)	YS0005	71
42	Pound Cove Brook	YR0001	71
43	Pipers Hole River	ZH0001	70
44	Rocky River	ZK0001	70
45	Broad Cove Brook	ZM0020	70
46	Wild Cove Brook	YL0029	70
47	North West Gander River	YQ0006	70
48	Garnish River	ZG0016	69
49	Upper Humber	YL0011	69
50	Quidi Vidi Lake	ZM0015	68
51	Main River	YG0001	68
52	Terra Nova River (@ Terra Nova)	YS0001	68
53	Bay du Nord River	ZF0020	68
54	Waterford River (@ Kilbride)	ZM0009	67
55	Terra Nova River (@ ES Spencer Bridge)	YS0011	67
56	Exploits River (@ Biships Falls)	YO0021	66
57	Virgina River (@ Boulevard)	ZM0014	65
58	Exploits River (@ Aspen Brook Park)	YO0020	65
59	Rennies River (@ Carnell Dr)	ZM0016	64
60	Churchill River	OE0001	63
61	Crabbes River	ZA0007	63
62	Exploits River (b/l Millertown Dam)	YO0107	63
63	Terra Nova River (@ Newton Lake)	YS0012	62
64	Mundy Pond	ZM0109	59
65	Kellys Brook	ZM0144	50

Labrador
Western
Central
Eastern

The Development Level Index ranking of each Agreement water quality station's watershed can also be found in Appendix I. This index evaluates the level of anthropogenic activity in the watershed with respect to forestry, mining, agriculture, urbanization, recreation, linear development, hydro, industrial and municipal water use, etc. The ranking indicates a fairly even distribution of Central Rivers from high to low development pressure. There is a slight weighting of Western Rivers towards lower levels of development pressure, and a more noticeable weighting of Eastern Rivers towards higher levels of development pressure.

The following tables categorize rivers from each region as pristine, semi-impaired or impaired.

Table 73- Water Quality Status of Eastern Agreement Sites

Pristine	Semi-Impaired	Impaired
Spout Cove Brook- NF02ZL0001	Hearts Content Brook- NF02ZL0002	Broad Cove Brook- NF02ZM0020
	Goulds Brook- NF02ZL0029	Virginia River (@ Boulevard)- NF02ZM0014
	Raymond Brook- NF02ZM0017	Kellys Brook- NF02ZM0144
	Mobile River- NF02ZM0018	Rennies River (@ Carnell Dr)- NF02ZM0016
	Seal Cove River- NF02ZM0019	Mundy Pond- NF02ZM0109
	Northwest Brook- NF02ZN0002	Waterford River (@ Kilbride)- NF02ZM0009
	Salmonier River- NF02ZN0004	Quidi Vidi Lake- NF02ZM0015
	Rocky River- NF02ZK0001	
	Northeast River- NF02ZK0005	
	Pipers Hole River- NF02ZH0001	
	Rattle Brook- NF02ZG0025	
	Tides Brook- NF02ZG0024	
	Garnish River- NF02ZG0016	
	Grand Bank Brook- NF02ZG0026	

Table 74- Water Quality Status of Central Agreement Sites

Pristine	Semi-Impaired	Impaired
Indian Brook- NF02YM0001	South West Brook (@ Baie Verte)- NF02YM0004	Exploits River (@ Bishop Falls)- NF02YO0021
Southern Bay River- NF02ZJ0024	Exploits River (below Millertown Dam)- NF02YO0107	Exploits River (@ Grand Falls)- NF02YO0001
Jeddore Lake- NF02ZE0018	Terra Nova River (@ ES Spencer Bridge)- NF02YS0011	
South West Brook (@Terra Nova National Park)- NF02YS0005	Terra Nova River (@ Terra Nova)- NF02YS0001	
	Gander River (@ Appleton)- NF02YQ0030	
	Pound Cove Brook- NF02YR0001	
	Middle Brook- NF02YR0021	
	Bread Cove Brook- NF02YS0010	
	Terra Nova River (@ Newton Lake)- NF02YS0012	
	Gander River- NF02YQ0005	
	Northwest Gander River- NF02YQ0006	
	Exploits River (@ Aspen Brook Park)- NF02YO0020	

	Bay du Nord River- NF02ZF0020	

Table 75- Water Quality Status of Western Agreement Sites

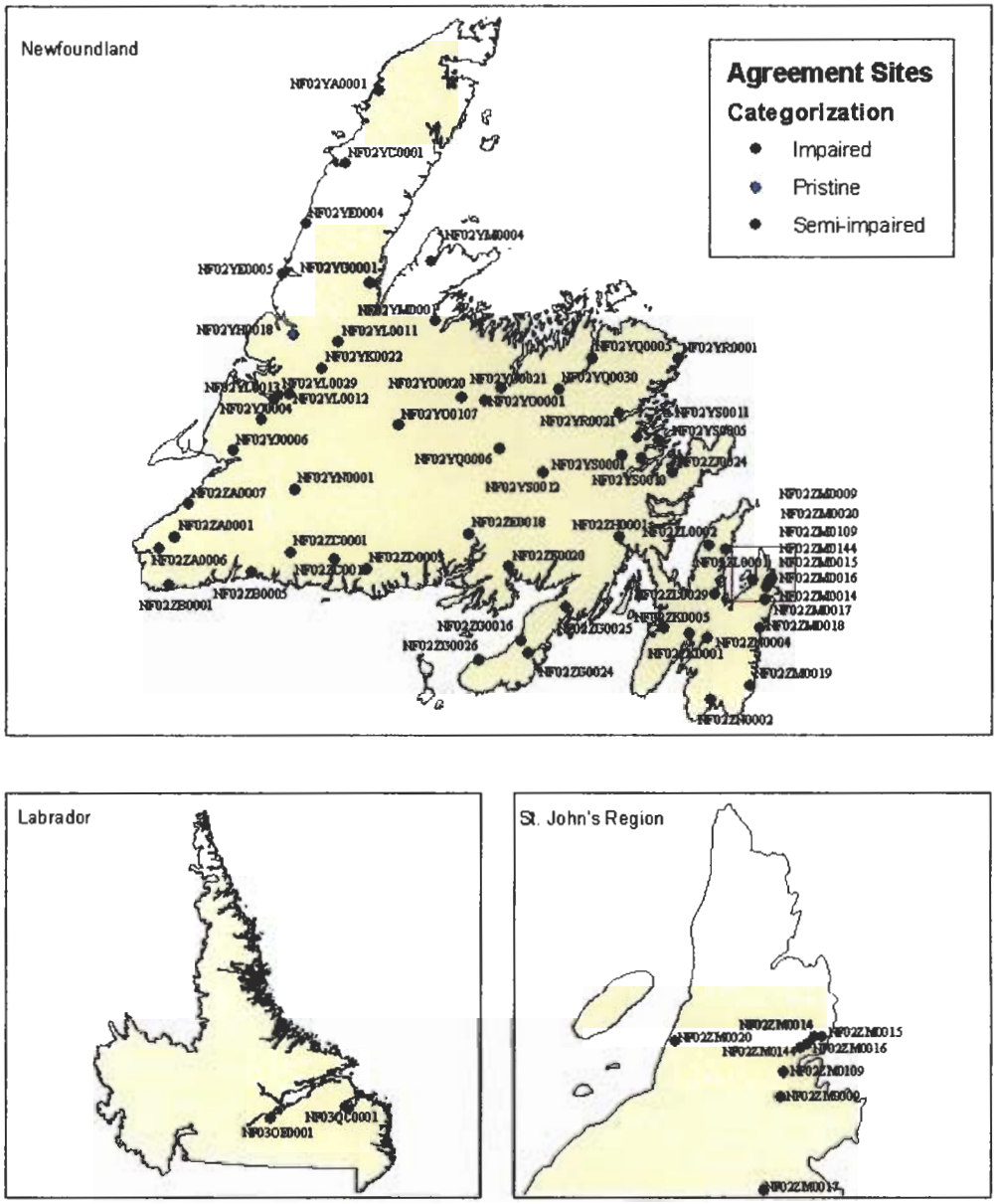
Pristine	Semi-Impaired	Impaired
Ste Genevieve River- NF02YA0001	Portland Creek- NF02YE0004	Wild Cove Brook- NF02YL0029
Torrent River- NF02YC0001	Western Brook- NF02YE0005	
Main River- NF02YG0001	Upper Humber- NF02YL0011	
Lomond River- NF02YH0018	Lower Humber- NF02YL0012	
Lloyds River- NF02YN0001	Humber Canal- NF02YK0022	
Isle aux Mort River- NF02ZB0001	Corner Brook- NF02YL0013	
Grandys Brook- NF02ZC0001	Pinchgut Brook- NF02YJ0004	
Grey River- NF02ZD0003	Harrys River- NF02YJ0006	
	Crabbes River- NF02ZA0007	
	South Branch River- NF02ZA0001	
	Grand Codroy River- NF02ZA0006	
	Cing Cerf Brook- NF02ZB0005	
	White Bear River- NF02ZC0011	

Table 76- Water Quality Status of Labrador Agreement Sites

Pristine	Semi-Impaired	Impaired
Eagle River- NF03QC0001	Churchill River- NF03OE0001	

The status of all Canada-Newfoundland water quality monitoring Agreement sites throughout the province is summarized in the map in Figure 7.

Figure 7: Status of Canada-Newfoundland Water Quality Monitoring Agreement Sites



Conclusions and Recommendations

The results of this study indicate that there have been changes in many water quality parameters throughout the rivers monitored as part of the Canada-Newfoundland Water Quality Monitoring Agreement since 1986. Changes have resulted in both improvement and deterioration in some water quality parameters. In trying to link factors affecting these changes, it is obvious that local and global conditions both have an impact on this dynamic, for even in pristine watersheds, significant change was observed. The overall

status of Agreement waterbodies reveals the majority of rivers have experienced some negative impact, however, only a handful can truly be classified as impaired.

Several steps are required to build upon the results contained within this study. Returning to the objectives of this report, several have been met, but others still require further work. The information from this study is intended to contribute towards decision and policy making in the future. With this goal in mind, the following recommendations are made:

- reorganization of the Agreement water quality monitoring network in terms of size, monitoring parameters and media
- establishment of provincial water quality objectives
- dissemination to the public of the information provided in this report in a user-friendly, watershed-based format
- identification and recognition of major water quality problems
- production of plans of action to improve water quality where there are deteriorating trends or other water quality concerns, and to maintain water quality where there are no present concerns

In addition to the above issues, this report has highlighted several important areas requiring further study. These include:

- Further investigation into the sources and causes of water quality trends.
- An analysis of spatial variations for watersheds with more than one sampling site.
- Further statistical analysis to fit trend models to the data to describe the amount or rate of change, and for future prediction.
- In depth watershed analysis using GIS and water quality modeling tools.
- Further investigation into the effect of climate change on water quality.
- Further investigation into atmospheric deposition and its effect on water quality.

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Appendix A:
Statistical Tables

TABLE A I

Critical values of `Student's' t distribution

	Level of significance for one-tailed test					
	0.100	0.050	0.025	0.010	0.005	0.0005
	Level of significance for two-tailed test					
df	0.200	0.100	0.050	0.020	0.01	0.001
1	3.078	6.314	12.706	31.821	63.657	636.619
2	1.886	2.920	4.303	6.965	9.925	31.598
3	1.638	2.353	3.182	4.541	5.841	12.941
4	1.533	2.132	2.776	3.747	4.604	8.610
5	1.476	2.015	2.571	3.365	4.032	6.859
6	1.440	1.943	2.447	3.143	3.707	5.959
7	1.415	1.895	2.365	2.998	3.499	5.405
8	1.397	1.860	2.306	2.896	3.355	5.041
9	1.383	1.833	2.262	2.821	3.250	4.781
10	1.372	1.812	2.228	2.764	3.169	4.587
11	1.363	1.796	2.201	2.718	3.106	4.437
12	1.356	1.782	2.179	2.681	3.055	4.318
13	1.350	1.771	2.160	2.650	3.012	4.221
14	1.345	1.761	2.145	2.624	2.977	4.140
15	1.341	1.753	2.131	2.602	2.947	4.073
16	1.337	1.746	2.120	2.583	2.921	4.015
17	1.333	1.740	2.110	2.567	2.898	3.965
18	1.330	1.734	2.101	2.552	2.878	3.922
19	1.328	1.729	2.093	2.539	2.861	3.883
20	1.325	1.725	2.086	2.528	2.845	3.850
21	1.323	1.721	2.080	2.518	2.831	3.819
22	1.321	1.717	2.074	2.508	2.819	3.792
23	1.319	1.714	2.069	2.500	2.807	3.767
24	1.318	1.711	2.064	2.492	2.797	3.745
25	1.316	1.708	2.060	2.485	2.787	3.725
26	1.315	1.706	2.056	2.479	2.779	3.707
27	1.314	1.703	2.052	2.473	2.771	3.690
28	1.313	1.701	2.048	2.467	2.763	3.674
29	1.311	1.699	2.045	2.462	2.756	3.659
30	1.310	1.697	2.042	2.457	2.750	3.646

40	1.303	1.684	2.021	2.423	2.704	3.551
60	1.296	1.671	2.000	2.390	2.660	3.460
120	1.289	1.658	1.980	2.358	2.617	3.373
inf	1.282	1.645	1.960	2.326	2.576	3.291

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TABLE A II

Critical values of r_S, Spearman rank correlation coefficient

	Level of significance for one-tailed test								
	0.250	0.100	0.050	0.025	0.010	0.005	0.0025	0.0010	0.0005
	Level of significance for two-tailed test								
N	0.500	0.200	0.100	0.050	0.020	0.010	0.005	0.002	0.001
4	0.600	1.000	1.000	-	-	-	-	-	-
5	0.500	0.800	0.900	1.000	1.000	-	-	-	-
6	0.371	0.657	0.829	0.886	0.943	1.000	1.000	-	-
7	0.321	0.571	0.714	0.786	0.893	0.929	0.964	1.000	1.000
8	0.310	0.524	0.643	0.738	0.833	0.881	0.905	0.952	0.976
9	0.267	0.483	0.600	0.700	0.783	0.833	0.867	0.917	0.933
10	0.248	0.455	0.564	0.648	0.745	0.794	0.830	0.879	0.903
11	0.236	0.427	0.536	0.618	0.709	0.755	0.800	0.845	0.873
12	0.224	0.406	0.503	0.587	0.671	0.727	0.776	0.825	0.860
13	0.209	0.385	0.484	0.560	0.648	0.703	0.747	0.802	0.835
14	0.200	0.367	0.464	0.538	0.622	0.675	0.723	0.776	0.811
15	0.189	0.354	0.443	0.521	0.604	0.654	0.700	0.754	0.786
16	0.182	0.341	0.429	0.503	0.582	0.635	0.679	0.732	0.765
17	0.176	0.328	0.414	0.485	0.566	0.615	0.662	0.713	0.748
18	0.170	0.317	0.401	0.472	0.550	0.600	0.643	0.695	0.728
19	0.165	0.309	0.391	0.460	0.535	0.584	0.628	0.677	0.712
20	0.161	0.299	0.380	0.447	0.520	0.570	0.612	0.662	0.696
21	0.156	0.292	0.370	0.435	0.508	0.556	0.599	0.648	0.681
22	0.152	0.284	0.361	0.425	0.496	0.544	0.586	0.634	0.667
23	0.148	0.278	0.353	0.415	0.486	0.532	0.573	0.622	0.654
24	0.144	0.271	0.344	0.406	0.476	0.521	0.562	0.610	0.642
25	0.142	0.265	0.337	0.398	0.466	0.511	0.551	0.598	0.630
26	0.138	0.259	0.331	0.390	0.457	0.501	0.541	0.587	0.619
27	0.136	0.255	0.324	0.382	0.448	0.491	0.531	0.577	0.608
28	0.133	0.250	0.317	0.375	0.440	0.483	0.522	0.567	0.598
29	0.130	0.245	0.312	0.368	0.433	0.475	0.513	0.558	0.589
30	0.128	0.240	0.306	0.362	0.425	0.467	0.504	0.549	0.580
31	0.126	0.236	0.301	0.356	0.418	0.459	0.496	0.541	0.571
32	0.124	0.232	0.296	0.350	0.412	0.452	0.489	0.533	0.563
33	0.121	0.229	0.291	0.345	0.405	0.446	0.482	0.525	0.554

34	0.120	0.225	0.287	0.340	0.399	0.439	0.475	0.517	0.547
35	0.118	0.222	0.283	0.335	0.394	0.433	0.468	0.510	0.539
36	0.116	0.219	0.279	0.330	0.388	0.427	0.462	0.504	0.533
37	0.114	0.216	0.275	0.325	0.383	0.421	0.456	0.497	0.526
38	0.113	0.212	0.271	0.321	0.378	0.415	0.450	0.491	0.519
39	0.111	0.210	0.267	0.317	0.373	0.410	0.444	0.485	0.513
40	0.110	0.207	0.264	0.313	0.368	0.405	0.439	0.479	0.507
41	0.108	0.204	0.261	0.309	0.364	0.400	0.433	0.473	0.501
42	0.107	0.202	0.257	0.305	0.359	0.395	0.428	0.468	0.495
43	0.105	0.199	0.254	0.301	0.355	0.391	0.423	0.463	0.490
44	0.104	0.197	0.251	0.298	0.351	0.386	0.419	0.458	0.484
45	0.103	0.194	0.248	0.294	0.347	0.382	0.414	0.453	0.479
46	0.102	0.192	0.246	0.291	0.343	0.378	0.410	0.448	0.474
47	0.101	0.190	0.243	0.288	0.340	0.374	0.405	0.443	0.469
48	0.100	0.188	0.240	0.285	0.336	0.370	0.401	0.439	0.465
49	0.098	0.186	0.238	0.282	0.333	0.366	0.397	0.434	0.460
50	0.097	0.184	0.235	0.279	0.329	0.363	0.393	0.430	0.456

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Appendix B:
Descriptive Statistics

Water Quality Parameter Codes

Code	Parameter Name
TEMPI	Temperature
CONDL	Specific Conductance
COLORA	Colour Apparent
TURB	Turbidity
O2D	Oxygen (dissolved)
PHL	pH (Lab)
ALKT	Alkalinity (total)
CAD	Calcium (dissolved)
NAD	Sodium (dissolved)
MGD	Magnesium (dissolved)
KD	Potassium (dissolved)
SO4IC	Sulphate (dissolved)
CLD	Chloride (dissolved)
FD	Floride (dissolved)
DOC	Dissolved Organic Carbon
PT	Phosphorous (total)
NO3NO2	Nitrate & Nitrite
NT	Nitrogen (total)
SID	Silica (dissolved)
ALT	Aluminium (total)
AST	Arsenic (total)
BAT	Baroum (total)
BET	Beryllium (total)
CDT	Cadmium (total)
COT	Cobalt (total)
CRT	Chromium (total)
CUT	Copper (total)
FET	Iron (total)
HGT	Mercury (total)
LIT	Lithium (total)
MNT	Manganese (total)
MOT	Molybdenum (total)
NIT	Nickel (total)
PBT	Lead (total)
SET	Selenium (total)
SRT	Strontium (total)
VT	Vanadium (total)
ZNT	Zinc (total)

Descriptive Statistics for Hearts Content Brook- NF02ZL0002

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.80808081	30.3409226	19.5764881	0.43220238	11.9048544	5.67376488	0.56933333	0.53271772	3.98272586	0.39463964	0.15077882	1.74620536	6.19941964
Standard Error	0.71323108	0.59057461	1.06740548	0.02515225	0.19559385	0.02860818	0.05566667	0.011368	0.06320854	0.01015891	0.00350372	0.03551609	0.13525432
Median	4.8	29.05	20	0.3725	12.4	5.66	0.5	0.5	3.9	0.37	0.15	1.645	5.93
Mode	1.2	27.1	20	0.35	14.2	5.76	0.5	0.5	3.78	0.37	0.13	1.55	5.18
Standard Deviation	7.09655963	6.25005421	11.2963578	0.26618643	1.98506081	0.30276047	0.27833333	0.11976933	0.65383426	0.10703072	0.03624277	0.37586698	1.43139714
Sample Variance	50.3611585	39.0631776	127.6077	0.07085522	3.9404664	0.0916639	0.07746944	0.01434469	0.42749923	0.01145558	0.00131354	0.14127599	2.04889778
Skewness	0.53751805	0.0798646	0.67175648	2.93226877	-0.307031	0.01642543	0.16676022	0.84963012	1.11304905	1.20405767	0.75840117	3.53346934	1.2600523
Range	21.7	51	47.5	1.8	7.4	1.61	1.05	0.73	3.57	0.55	0.18	3.27	7.18
Minimum	0	0.5	2.5	0	8.2	4.76	0.05	0.2	2.8	0.2	0.08	1.16	3.92
Maximum	21.7	51.5	50	1.8	15.6	6.37	1.1	0.93	6.37	0.75	0.26	4.43	11.1
Count	99	112	112	112	103	112	25	111	107	111	107	112	112
Confidence Level(95.0%)	1.41538384	1.17026265	2.11513455	0.04984085	0.38795928	0.05668899	0.11489033	0.02252872	0.12531716	0.02013258	0.00694647	0.07037748	0.26801537

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.49648649	0.00434264	0.01062872	0.11753943	1.80598706	0.15720536	7.7143E-05	0.00150161	0.0265625	5.4018E-05	0.00011288	0.00015455
Standard Error	0.09781004	0.00020295	0.00107777	0.00323442	0.09837084	0.00465209	3.8991E-06	4.9351E-05	0.00057439	1.2901E-06	6.8126E-06	2.5657E-05
Median	3.3	0.004	0.005	0.116	1.74	0.162	0.00005	0.0015	0.025	0.00005	0.0001	0.0001
Mode	3.3	0.0044	0.005	0.125	2.74	0.187	0.00005	0.0015	0.025	0.00005	0.0001	0.0001
Standard Deviation	1.03049276	0.00212857	0.01140599	0.03314297	0.998355	0.04923304	3.2622E-05	0.00052228	0.00607873	1.3653E-05	7.1451E-05	0.00026909
Sample Variance	1.06191532	4.5308E-06	0.0001301	0.00109846	0.99671271	0.00242389	1.0642E-09	2.7278E-07	3.6951E-05	1.8641E-10	5.1053E-09	7.241E-08
Skewness	0.78492565	2.87636283	2.46750842	0.30852199	0.04619931	-0.1965603	1.44869658	0.4545517	3.66404013	3.12943404	1.6833247	8.98817747
Range	4.9	0.0176	0.0575	0.14666667	3.7	0.239	0.00015	0.0023	0.025	0.00005	0.00035	0.0027
Minimum	1.6	0.0004	0.0025	0.051	0.01	0.043	0.00005	0.0005	0.025	0.00005	0.00005	0.0001
Maximum	6.5	0.018	0.06	0.19766667	3.71	0.282	0.0002	0.0028	0.05	0.0001	0.0004	0.0028
Count	111	110	112	105	103	112	70	112	112	112	110	110
Confidence Level(95.0%)	0.19383664	0.00040224	0.00213566	0.00641397	0.195118	0.00921841	7.7784E-06	9.7792E-05	0.00113818	2.5565E-06	1.3502E-05	5.0851E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00084036	0.09445618	0.00494138	0.00034855	0.03260424	6.0152E-05	0.00016558	0.00027658	9.9645E-05	0.00366758	0.00011364	0.00114945
Standard Error	0.00010659	0.00275168	0.00044567	1.1513E-05	0.00199836	2.8483E-06	1.1224E-05	2.7077E-05	8.15E-06	8.9533E-05	6.3571E-06	6.7143E-05
Median	0.00044833	0.08845	0.005	0.0004	0.0285	0.00005	0.0001	0.0002	0.0001	0.00353333	0.0001	0.00115
Mode	0.0004	0.112	0.005	0.0004	0.0132	0.00005	0.0001	0.0001	0.0001	0.0036	0.0001	0.0013
Standard Deviation	0.00111788	0.02885981	0.00432093	0.00012075	0.02095898	2.9874E-05	0.00011772	0.00028398	5.5874E-05	0.00093903	6.6674E-05	0.0007042
Sample Variance	1.2497E-06	0.00083289	1.867E-05	1.4581E-08	0.00043928	8.9243E-10	1.3858E-08	8.0646E-08	3.1219E-09	8.8178E-07	4.4454E-09	4.959E-07
Skewness	2.55763231	1.39027994	4.64061276	-0.0165124	2.67927565	3.50857394	2.77511216	2.32369933	1.57046953	1.02607046	1.8630218	1.24923274
Range	0.0052	0.188	0.0275	0.00075	0.1541	0.00015	0.0007	0.0013	0.00025	0.0045	0.00035	0.0046
Minimum	0.0001	0.049	0.0025	0.00005	0.0109	0.00005	0.0001	0.0001	0.00005	0.0023	0.00005	0.0001
Maximum	0.0053	0.237	0.03	0.0008	0.165	0.0002	0.0008	0.0014	0.0003	0.0068	0.0004	0.0047
Count	110	110	94	110	110	110	110	110	47	110	110	110
Confidence Level(95.0%)	0.00021125	0.00545373	0.00088501	2.2819E-05	0.00396068	5.6453E-06	2.2246E-05	5.3665E-05	1.6405E-05	0.00017745	1.26E-05	0.00013308

Descriptive Statistics for Spout Cove Brook- NF02ZL0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.63478261	33.332483	9.10714286	0.33430272	11.8461806	6.38418367	2.20673759	1.13469388	3.78964286	0.50273789	0.17265306	1.96105442	5.98027211
Standard Error	0.72557445	0.54372935	0.63769198	0.02724213	0.19164275	0.03031828	0.07534896	0.01901364	0.06009962	0.0096003	0.00297301	0.02921537	0.14209661
Median	4.4	32.2666667	10	0.265	12.5	6.34	2.15	1.115	3.67833333	0.49	0.17	1.975	5.735
Mode	0.6	32.5	10	0.2	13.5	6.33	2.5	1.1	3.77	0.5	0.17	1.86	7.19
Standard Deviation	6.9594656	5.38264594	6.31282854	0.26968332	1.87770776	0.30013564	0.73053523	0.18822547	0.5949559	0.0950381	0.02943126	0.28921739	1.40668472
Sample Variance	48.4341615	28.9728773	39.8518041	0.07272909	3.52578643	0.0900814	0.53368172	0.03542883	0.35397252	0.00903224	0.0008662	0.0836467	1.9787619
Skewness	0.51879842	0.80240965	1.69560638	3.0044563	-0.3780287	1.16180018	0.37497924	0.28451615	0.9075755	1.02225745	0.92282074	-3.1516492	1.11981201
Range	22.1	26.8	37.5	1.77	6.3	2.18	3.3	1.06	3.16	0.51	0.17	2.475	7.46
Minimum	0.1	21.6	2.5	0	8.4	5.59	0.9	0.7	2.6	0.3	0.11	0.005	3.74
Maximum	22.2	48.4	40	1.77	14.7	7.77	4.2	1.76	5.76	0.81	0.28	2.48	11.2
Count	92	98	98	98	96	98	94	98	98	98	98	98	98
Confidence Level(95.0%)	1.44126465	1.07915164	1.26564135	0.05406805	0.38045868	0.06017335	0.14962794	0.0377368	0.11928105	0.01905392	0.00590059	0.05798439	0.28202229

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	2.31612245	0.00359221	0.02958653	0.11989641	1.87692873	0.08257347	7.0303E-05	0.00222784	0.02592784	5.2577E-05	7.3509E-05	0.00015614
Standard Error	0.06177116	0.00023641	0.00318003	0.00400657	0.08721021	0.0039496	4.8873E-06	0.00012124	0.00071545	1.1283E-06	5.364E-06	1.5182E-05
Median	2.3	0.003	0.014	0.1175	1.88	0.08	0.00005	0.0021	0.025	0.00005	0.00005	0.0001
Mode	2.7	0.0027	0.005	0.117	2.73	0.082	0.00005	0.0017	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.61150326	0.00234032	0.03148066	0.03842964	0.82273949	0.03889901	3.6245E-05	0.00119406	0.00704635	1.1113E-05	5.2282E-05	0.00014798
Sample Variance	0.37393624	5.4771E-06	0.00099103	0.00147684	0.67690027	0.00151313	1.3137E-09	1.4258E-06	4.9651E-05	1.235E-10	2.7334E-09	2.1897E-08
Skewness	0.43359491	2.56930958	1.37608317	0.39382138	-0.1248855	2.79588015	2.14183283	7.02300248	8.41813306	4.12038896	3.54342372	3.30971272
Range	3.5	0.0157	0.1455	0.1895	3.49	0.305	0.00015	0.0115	0.065	0.00005	0.00035	0.0008
Minimum	0.9	0.0004	0.0045	0.0465	0.01	0.022	0.00005	0.0011	0.025	0.00005	0.00005	0.0001
Maximum	4.4	0.0161	0.15	0.236	3.5	0.327	0.0002	0.0126	0.09	0.0001	0.0004	0.0009
Count	98	98	98	92	89	97	55	97	97	97	95	95
Confidence Level(95.0%)	0.12259858	0.0004692	0.00631147	0.00795855	0.1733121	0.00783989	9.7984E-06	0.00024066	0.00142015	2.2397E-06	1.065E-05	3.0145E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00144126	0.02605884	0.00490506	0.00028902	0.00962095	7.1053E-05	0.00016807	0.00030516	0.00010326	0.00522772	0.00011825	0.00083309
Standard Error	0.00044326	0.00241072	0.0003158	1.4711E-05	0.00118594	6.9222E-06	1.3615E-05	4.5997E-05	9.3913E-06	8.1741E-05	8.6406E-06	5.4226E-05
Median	0.0004	0.0213	0.005	0.0003	0.0078	0.00005	0.0001	0.0001	0.0001	0.0051	0.0001	0.0007
Mode	0.0003	0.0184	0.005	0.0003	0.0078	0.00005	0.0001	0.0001	0.0001	0.0051	0.0001	0.0005
Standard Deviation	0.00432033	0.02349678	0.0028069	0.00014339	0.01155912	6.7469E-05	0.0001327	0.00044833	6.3695E-05	0.00079671	8.4218E-05	0.00052853
Sample Variance	1.8665E-05	0.0005521	7.8787E-06	2.056E-08	0.00013361	4.5521E-09	1.761E-08	2.01E-07	4.057E-09	6.3474E-07	7.0926E-09	2.7934E-07
Skewness	6.57057844	6.28217495	2.79874621	2.38471	7.02191993	3.64762336	2.78417238	4.17664325	2.57762234	0.50737556	2.03547779	2.52853128
Range	0.036	0.2079	0.0175	0.0009	0.1048	0.00035	0.0007	0.0032	0.00035	0.0047	0.00045	0.0033
Minimum	0.0001	0.0101	0.0025	0.0001	0.0032	0.00005	0.0001	0.0001	0.00005	0.0033	0.00005	0.0001
Maximum	0.0361	0.218	0.02	0.001	0.108	0.0004	0.0008	0.0033	0.0004	0.008	0.0005	0.0034
Count	95	95	79	95	95	95	95	95	46	95	95	95
Confidence Level(95.0%)	0.0008801	0.00478654	0.00062871	2.921E-05	0.00235471	1.3744E-05	2.7033E-05	9.1329E-05	1.8915E-05	0.0001623	1.7156E-05	0.00010767

Descriptive Statistic for Goulds Brook- NF02ZL0029

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	9.0442857	75.274725	32.040143	1.2225806	11.461733	6.2322581	3.4818721	2.2597318	8.9868293	0.938582	0.6461787	2.3673993	15.973626
Standard Error	0.8821478	1.3483207	1.3491667	0.6424943	0.1705144	0.0344142	0.2535704	0.078203	0.1487317	0.0203938	0.02558	0.0507795	0.361253
Median	9.55	74.8	30	0.47	11.3	6.25	3.2	2.15	8.87	0.93	0.5833333	2.25	15.2
Mode	0.1	80.8	30	0.47	10.5	6.22	3.6	1.89	10.1	0.9	0.42	1.86	13.6
Standard Deviation	7.3805784	12.862159	13.010892	6.1959907	1.4766977	0.3318788	2.1665068	0.7294287	1.346823	0.1902206	0.2316364	0.4844051	3.4461341
Sample Variance	54.472938	165.43514	169.28332	38.390301	2.1806361	0.1101435	4.6937515	0.5320662	1.8139322	0.0361839	0.0536554	0.2346483	11.87584
Skewness	0.2198151	-0.353186	0.2595368	9.4868858	0.2759638	-0.907511	2.831258	2.8939033	0.5371646	0.1873615	1.1502938	1.4682744	0.9490151
Range	24.3	66.8	67.5	59.8	6.5	2.04	14.6	5.71	6.51	0.97	1.06	2.77	16.2
Minimum	0	32.6	2.5	0.2	8.8	4.94	1	1.09	6.29	0.53	0.27	1.61	10.4
Maximum	24.3	99.4	70	60	15.3	6.98	15.6	6.8	12.8	1.5	1.33	4.38	26.6
Count	70	91	93	93	75	93	73	87	82	87	82	91	91
Confidence Level(95.0%	1.7598363	2.6786722	2.6795615	1.2760492	0.3397573	0.0683496	0.5054831	0.1554622	0.2959297	0.0405415	0.0508961	0.1008822	0.7176916

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.8257509	0.167863	0.612747	0.9469844	2.4766667	0.0855551	0.0001555	0.0028552	0.0282975	6.022E-05	0.0001427	0.0001824
Standard Error	0.1623543	0.0155712	0.0635177	0.080619	0.0907618	0.0043555	8.631E-06	9.941E-05	0.0008958	2.484E-06	1.167E-05	3.759E-05
Median	4.5	0.11	0.34	0.63	2.4	0.08	0.0001	0.0027	0.025	0.00005	0.0001	0.0001
Mode	4.1	0.11	0.15	1.028	2.67	0.079	0.0001	0.0026	0.025	0.00005	0.0001	0.0001
Standard Deviation	1.5487611	0.149354	0.6059206	0.7476296	0.8705569	0.0420027	7.864E-05	0.0009587	0.0086392	2.396E-05	0.0001114	0.0003586
Sample Variance	2.398661	0.0223066	0.3671398	0.55895	0.7578694	0.0017642	6.184E-09	9.19E-07	7.464E-05	5.739E-10	1.24E-08	1.286E-07
Skewness	1.2507883	3.4063175	1.6475315	1.5538658	0.5687348	2.2169102	0.7147362	0.8139741	2.2803986	2.9557923	3.7605613	8.2812445
Range	7.3	1.1099	2.701	3.259	4.68	0.2993333	0.00039	0.0059	0.0316667	0.00015	0.0007833	0.0033
Minimum	2.7	0.0101	0.005	0.221	0.77	0.025	0.00001	0.0008	0.025	0.00005	0.00005	0.0001
Maximum	10	1.12	2.706	3.48	5.45	0.3243333	0.0004	0.0067	0.0566667	0.0002	0.0008333	0.0034
Count	91	92	91	86	92	93	83	93	93	93	91	91
Confidence Level(95.0%	0.3225449	0.0309303	0.126189	0.1602922	0.1802873	0.0086504	1.717E-05	0.0001974	0.0017792	4.934E-06	2.319E-05	7.468E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0005719	0.1918088	0.0048063	0.00081	0.0459601	6.648E-05	0.0001797	0.0001934	8.901E-05	0.0100378	0.0001172	0.0021751
Standard Error	0.0001097	0.0109395	0.0003382	2.274E-05	0.0037012	2.823E-06	2.188E-05	1.974E-05	7.386E-06	0.0002232	6.519E-06	0.0001246
Median	0.0004	0.172	0.005	0.0008	0.0371	0.00005	0.0001	0.0001	0.0001	0.0099	0.0001	0.0019
Mode	0.0004	0.199	0.0025	0.0007	0.0338	0.00005	0.0001	0.0001	0.00005	0.0116	0.0001	0.0015
Standard Deviation	0.0010467	0.1043559	0.0032617	0.0002169	0.0353076	2.693E-05	0.0002088	0.0001883	5.063E-05	0.0021292	6.219E-05	0.0011884
Sample Variance	1.095E-06	0.0108901	1.064E-05	4.705E-08	0.0012466	7.253E-10	4.358E-08	3.546E-08	2.564E-09	4.534E-06	3.867E-09	1.412E-06
Skewness	6.4152474	3.5563374	2.7965451	-0.167928	4.3188877	1.8115615	5.6974352	3.0085875	2.162561	0.3468341	2.5247553	1.1217317
Range	0.0083	0.7260667	0.0208333	0.0011	0.2367333	0.00015	0.0017	0.0009	0.00025	0.0118	0.0004167	0.0059
Minimum	0.0001	0.0936	0.0025	0.0002	0.0206	0.00005	0.0001	0.0001	0.00005	0.0054	0.00005	0.0002
Maximum	0.0084	0.8196667	0.0233333	0.0013	0.2573333	0.0002	0.0018	0.001	0.0003	0.0172	0.0004667	0.0061
Count	91	91	93	91	91	91	91	91	47	91	91	91
Confidence Level(95.0%	0.000218	0.0217331	0.0006717	4.517E-05	0.0073532	5.609E-06	4.348E-05	3.922E-05	1.487E-05	0.0004434	1.295E-05	0.0002475

Descriptive Statistics for Broad Cove Brook- NF02ZM0020

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.8375	79.284218	19.887021	0.4350295	11.912458	6.3329094	2.5472549	2.136131	10.777397	0.9198061	0.5119841	4.5564327	17.866988
Standard Error	0.6767574	1.0774649	1.1694513	0.0236864	0.1967472	0.0321568	0.143633	0.0692696	0.5633254	0.0129537	0.0102216	0.0635488	0.8861334
Median	7.2	78.7	20	0.4	11.9	6.305	2.3	2.0233333	10.1	0.91	0.51	4.505	17.35
Mode	0.1	84.4	20	0.4	14.2	6.38	1.9	1.9	10.9	0.88	0.51	4.48	18.4
Standard Deviation	6.630841	11.453609	12.431438	0.2517898	1.9576096	0.3433408	1.4506224	0.733081	5.7723673	0.1370889	0.1047397	0.678515	9.4613159
Sample Variance	43.968053	131.18516	154.54064	0.0633981	3.8322355	0.1178829	2.1043055	0.5374077	33.320224	0.0187934	0.0109704	0.4603826	89.516498
Skewness	0.4154406	-0.105261	1.2503686	2.8876966	-0.145627	1.6534842	2.0144508	5.7657615	9.277659	0.0533206	1.4725594	0.4551383	9.1252698
Range	22.8	63	67.5	1.8	6.9	2.32	9.4	7.4	61.59	0.75	0.84	3.3766667	104.56
Minimum	0	45	2.5	0	8	5.69	0.6	1	5.91	0.5	0.22	3.18	8.44
Maximum	22.8	108	70	1.8	14.9	8.01	10	8.4	67.5	1.25	1.06	6.5566667	113
Count	96	113	113	113	99	114	102	112	105	112	105	114	114
Confidence Level(95.0%	1.3435323	2.1348573	2.3171164	0.0469315	0.3904384	0.0637084	0.2849292	0.1372624	1.1170939	0.0256686	0.0202697	0.1259015	1.7555894

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.9785783	0.0055575	0.076373	0.2062034	2.594254	0.0944031	0.000111	0.0041608	0.0277193	6.725E-05	0.0001645	0.0001533
Standard Error	0.1181506	0.0002513	0.0079094	0.0052976	0.0904153	0.0038008	6.914E-06	8.562E-05	0.0007506	8.484E-06	8.908E-06	1.773E-05
Median	3.7666667	0.0053	0.06	0.201	2.73	0.088495	0.0001	0.00415	0.025	0.00005	0.0001333	0.0001
Mode	3.5	0.0055	0.04	0.18	3.33	0.111	0.0001	0.0043	0.025	0.00005	0.0001	0.0001
Standard Deviation	1.2503886	0.0026709	0.0840779	0.0553084	0.9264812	0.0405813	5.907E-05	0.0009141	0.0080138	9.058E-05	9.427E-05	0.0001877
Sample Variance	1.5634718	7.134E-06	0.0070691	0.003059	0.8583674	0.0016468	3.489E-09	8.357E-07	6.422E-05	8.205E-09	8.887E-09	3.522E-08
Skewness	1.3480936	1.435562	6.0974701	1.5058803	0.0213868	1.589825	1.6381018	0.1340805	2.682288	9.8486541	1.4701891	6.3309484
Range	7	0.0168	0.8075	0.387	3.65	0.293	0.00025	0.0046	0.035	0.00095	0.00054	0.0015
Minimum	1.8	0.0001	0.0025	0.109	0.89	0.02	0.00005	0.0021	0.025	0.00005	0.00005	0.0001
Maximum	8.8	0.0169	0.81	0.496	4.54	0.313	0.0003	0.0067	0.06	0.001	0.00059	0.0016
Count	112	113	113	109	105	114	73	114	114	114	112	112
Confidence Level(95.0%	0.2341233	0.0004978	0.0156714	0.0105007	0.1792967	0.00753	1.378E-05	0.0001696	0.001487	1.681E-05	1.765E-05	3.514E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0007978	0.1962785	0.0096632	0.0005646	0.0382179	6.205E-05	0.0001941	0.0002905	9.167E-05	0.0097374	0.0001608	0.0030086
Standard Error	0.0001042	0.010033	0.0047502	1.924E-05	0.0018313	2.991E-06	1.234E-05	3.043E-05	5.83E-06	0.0001433	8.43E-06	0.0001593
Median	0.0005	0.1585	0.005	0.00059	0.0344	0.00005	0.0001	0.0001	0.0001	0.0097	0.0001167	0.00255
Mode	0.0004	0.136	0.005	0.0005	0.0243	0.00005	0.0001	0.0001	0.0001	0.0099	0.0001	0.0024
Standard Deviation	0.0011027	0.1061794	0.0465425	0.0002037	0.0193809	3.166E-05	0.0001306	0.000322	4.039E-05	0.0015161	8.921E-05	0.0016863
Sample Variance	1.216E-06	0.0112741	0.0021662	4.148E-08	0.0003756	1.002E-09	1.706E-08	1.037E-07	1.631E-09	2.299E-06	7.958E-09	2.844E-06
Skewness	4.411447	1.1928545	9.7367424	3.2244961	1.5484969	3.2263145	1.6422074	2.1887715	1.329255	0.1513153	1.7579924	1.8201562
Range	0.0078	0.5217	0.4575	0.0019	0.0902	0.00015	0.0006	0.0013	0.00015	0.0083	0.00054	0.0111
Minimum	0.0001	0.0523	0.0025	0.0001	0.0138	0.00005	0.0001	0.0001	0.00005	0.0054	0.00005	0.0007
Maximum	0.0079	0.574	0.46	0.002	0.104	0.0002	0.0007	0.0014	0.0002	0.0137	0.00059	0.0118
Count	112	112	96	112	112	112	112	112	48	112	112	112
Confidence Level(95.0%	0.0002065	0.0198811	0.0094304	3.813E-05	0.0036289	5.927E-06	2.445E-05	6.029E-05	1.173E-05	0.0002839	1.67E-05	0.0003157

Descriptive Statistics for Virginia River- NF02ZM0014

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.48302469	640.669571	12.1530303	2.03411606	12.0422321	6.84260652	12.7413033	13.4715467	104.975369	3.01872	1.9909292	14.8174872	170.781667
Standard Error	0.5546995	36.5841004	0.70734019	0.56830475	0.14173416	0.02281597	0.39218732	0.36842033	7.74267831	0.06979948	0.14815071	0.42140835	10.8410529
Median	8.05	533.5	10	0.63	12.05	6.85	12.4333333	12.6	84.6	2.83	1.66	14	142
Mode	11.6	533	10	0.58	13.9	6.85	11.1	13.4	108	2.7	1.47	13	183
Standard Deviation	5.76460625	420.319314	8.12672004	6.52932447	1.4999734	0.26312655	4.52292481	4.1190645	82.3079254	0.78038185	1.57486361	4.80479446	123.607021
Sample Variance	33.2306853	176668.325	66.0435785	42.6320781	2.2499202	0.06923558	20.4568488	16.9666924	6774.59459	0.60899584	2.48019538	23.0860498	15278.6956
Skewness	0.33423087	4.60331289	1.75387363	6.88400524	-0.0323397	0.02516686	2.53278993	1.4506244	4.91765392	0.68825683	6.9909272	5.87020453	4.63405064
Range	21.5	3473	47.5	60	6	1.36	38.4	25.8	653.2	3.43333333	14.88	55.06	1048
Minimum	0	261	2.5	0	9	6.19	4.3	7	38.8	1.7	1.02	3.04	22
Maximum	21.5	3734	50	60	15	7.55	42.7	32.8	692	5.13333333	15.7	58.1	1070
Count	108	132	132	132	112	133	133	125	113	125	113	130	130
Confidence Level(95.0%)	1.09962778	72.3720349	1.3992868	1.1242417	0.28085562	0.04513218	0.77578433	0.72920653	15.3415113	0.13815262	0.29354145	0.83376648	21.4492819

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	3.16405128	0.02201528	0.73841988	0.92648772	4.00176152	0.10033566	0.00011374	0.05761767	0.06572682	0.00010363	0.00032964	0.00037405
Standard Error	8.01E-307	0.07303853	0.00075053	0.032736	0.0212052	0.10190858	0.00930127	6.7696E-06	0.00182418	0.00239949	8.4331E-06	2.1542E-05	8.9339E-05
Median	0.025	3.1	0.02115	0.68999	0.917	4.12	0.07199	0.0001	0.0521	0.06	0.0001	0.0003	0.0002
Mode		2.7	0.021	0.52	0.89199	3.71	0.06	0.0001	0.0512	0.05	0.00005	0.0002	0.0001
Standard Deviation		0.83276735	0.00862294	0.37180954	0.23897052	1.13022084	0.10726751	6.4578E-05	0.02103746	0.02767229	9.7255E-05	0.00024655	0.00102253
Sample Variance		0.69350146	7.4355E-05	0.13824233	0.05710691	1.27739915	0.01150632	4.1703E-09	0.00044257	0.00076576	9.4585E-09	6.0789E-08	1.0456E-06
Skewness		0.40467513	1.97352846	4.32834933	0.61609629	-0.5710792	4.0776727	2.91799989	1.07898262	0.39295016	4.13990369	1.85980297	10.1138281
Range	0	4.7	0.0638	3.78	1.85033333	5.45666667	0.86233333	0.00045	0.10156667	0.105	0.00075	0.00145	0.0114
Minimum	0.025	1.1	0.007	0.01	0.15833333	0.56333333	0.01266667	0.00005	0.0241	0.025	0.00005	0.00005	0.0001
Maximum	0.025	5.8	0.0708	3.79	2.00866667	6.02	0.875	0.0005	0.12566667	0.13	0.0008	0.0015	0.0115
Count	1	130	132	129	127	123	133	91	133	133	133	131	131
Confidence Level(95.0%)		0.14450647	0.00148473	0.06477373	0.04196445	0.20173839	0.01839881	1.3449E-05	0.0036084	0.00474643	1.6681E-05	4.2617E-05	0.00017675

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00285038	0.17936023	0.00993678	0.00374097	0.1047756	0.00010674	0.00044771	0.00072705	0.00012624	0.05424313	0.00025725	0.02923636
Standard Error	0.00016945	0.01479183	0.00066514	0.00013872	0.00817763	1.2876E-05	3.4738E-05	0.00010338	9.036E-08	0.00156852	2.1213E-05	0.00169819
Median	0.0025	0.138	0.008	0.0035	0.07539	0.0001	0.0004	0.0003	0.0001	0.0499	0.0002	0.0243
Mode	0.0025	0.21	0.005	0.0026	0.109	0.0001	0.0005	0.0001	0.0001	0.0454	0.0002	0.0122
Standard Deviation	0.00193945	0.16930018	0.00716377	0.00158775	0.09359721	0.00014737	0.00039759	0.00118295	6.1948E-05	0.01795258	0.00024279	0.01943667
Sample Variance	3.7615E-06	0.02866255	5.132E-05	2.5209E-06	0.00876044	2.1717E-08	1.5808E-07	1.3994E-06	3.8375E-09	0.0003223	5.8949E-06	0.00037778
Skewness	8.40207206	5.10891394	1.89864187	0.94459753	1.60950979	7.32761696	4.38836305	3.71248339	2.13436527	1.14072832	3.34344898	1.82259815
Range	0.0199	1.52706667	0.0375	0.0084	0.4424	0.00145	0.0031	0.0078	0.00035	0.1	0.00175	0.1296
Minimum	0.0008	0.03293333	0.0025	0.0011	0.0126	0.00005	0.0001	0.0001	0.00005	0.025	0.00005	0.0054
Maximum	0.0207	1.56	0.04	0.0095	0.455	0.0015	0.0032	0.0079	0.0004	0.125	0.0018	0.135
Count	131	131	116	131	131	131	131	131	47	131	131	131
Confidence Level(95.0%)	0.00033524	0.02926383	0.00131751	0.00027445	0.01617844	2.5473E-05	6.8724E-05	0.00020448	1.8188E-05	0.00310313	4.1967E-05	0.00335966

Descriptive Statistics for Kelly's Brook- NF02ZM0144

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	9.2692308	1380.6712	26.897748	10.588716	11.142262	6.9203111	37.211556	26.748039	263.79425	2.7787255	3.6653448	23.407534	388.8287
Standard Error	0.5916178	188.66598	1.9704123	2.8872699	0.1482741	0.036224	1.3425815	1.2641241	44.807941	0.0777066	0.3368525	2.862363	58.385837
Median	9.35	893	24.783333	4.05	11.25	6.93	35.2	25.116667	150.5	2.86	2.895	16.2	236.33333
Mode	5.5	824	30	2.7	12.1	7.25	39.6	21.8	115	2.75	2.89	16.4	204
Standard Deviation	4.2662165	1622.9661	16.950128	24.837235	1.1095816	0.3137094	11.627097	10.424234	341.24711	0.6407854	2.5653923	24.45604	495.42026
Sample Variance	18.200603	2634019	287.30683	616.88822	1.2311714	0.0984136	135.18938	108.66466	116449.59	0.410606	6.5812374	598.09792	245441.23
Skewness	0.2322743	3.4920447	1.6686791	5.1175228	-0.073734	-0.048259	0.8765065	2.6149684	3.5252546	-0.033799	3.4036158	3.5797708	3.5053719
Range	14.5	9436	95	159.38	3.6	1.61	71.9	67.9	1807.2	3.34	13.8	148.45	2789
Minimum	3.3	104	5	0.62	9.4	6.03	12.4	8.9	82.8	0.94	1.9	0.55	61
Maximum	17.8	9540	100	160	13	7.64	84.3	76.8	1890	4.28	15.7	149	2850
Count	52	74	74	74	56	75	75	68	58	68	58	73	72
Confidence Level(95.0%	1.1877213	376.01101	3.9270288	5.7543245	0.2971478	0.072178	2.6751524	2.5232029	89.726392	0.1551032	0.6745358	5.7060129	116.41811

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.571331	0.0256802	1.8930554	2.9070909	4.7272444	0.267151	0.000372	0.0801295	0.0664889	0.0003858	0.000664	0.0013423
Standard Error	0.6533759	0.0023917	0.134038	0.1111793	0.1238332	0.0612433	5.34E-05	0.0026193	0.0044079	4.361E-05	4.114E-05	0.0002974
Median	2.9	0.0209	1.86	2.89	4.94	0.059	0.0003	0.0792	0.06	0.0003	0.00059	0.0004
Mode	2.6	0.0177	0.75	3.57	5.26	0.035	0.0003	0.0697	0.05	0.0002	0.0005	0.0003
Standard Deviation	5.4665353	0.0201532	1.1373503	0.903225	1.0724266	0.5303829	0.0004625	0.0226835	0.0381739	0.0003777	0.0003515	0.0025412
Sample Variance	29.883009	0.0004061	1.2935658	0.8158154	1.1500989	0.281306	2.139E-07	0.0005145	0.0014573	1.426E-07	1.235E-07	6.458E-06
Skewness	8.1112877	2.245083	0.2916303	0.4006589	-1.02398	3.0680751	4.7732637	0.7473114	2.1535639	2.9571021	2.4516725	3.5110623
Range	47.4	0.1089	4.39	4.89	5.98	2.696	0.00345	0.1098	0.195	0.00225	0.00225	0.0147
Minimum	0.8	0.0017	0.01	0.95	0.56	0.024	0.00005	0.0342	0.025	0.00005	0.00005	0.0001
Maximum	48.2	0.1106	4.4	5.84	6.54	2.72	0.0035	0.144	0.22	0.0023	0.0023	0.0148
Count	70	71	72	66	75	75	75	75	75	75	73	73
Confidence Level(95.0%	1.3034489	0.0047702	0.2672644	0.2220403	0.246743	0.12203	0.0001064	0.005219	0.008783	8.689E-05	8.201E-05	0.0005929

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0106253	2.5740594	0.0091197	0.0076732	0.4775066	0.0006344	0.0005875	0.0041592	0.0001219	0.1205909	0.0009085	0.0481174
Standard Error	0.001459	0.2347432	0.0007144	0.0008086	0.0153159	6.65E-05	8.806E-05	0.0010425	9.508E-06	0.0049633	0.0002282	0.0065295
Median	0.0062	1.98	0.007	0.0059	0.473	0.0004	0.0003	0.0009	0.0001	0.113	0.0002	0.029
Mode	0.0063	2.07	0.005	0.0065	0.344	0.0003	0.0003	0.0003	0.0001	0.113	0.0001	0.0488
Standard Deviation	0.0124656	2.0056469	0.0061868	0.0069088	0.130859	0.0005682	0.0007524	0.0089068	5.379E-05	0.0424062	0.0019496	0.0557882
Sample Variance	0.0001554	4.0226194	3.828E-05	4.773E-05	0.0171241	3.228E-07	5.661E-07	7.933E-05	2.893E-09	0.0017983	3.801E-06	0.0031123
Skewness	3.0246308	2.4749787	1.1222703	3.5350649	0.213118	2.0427576	2.9741253	3.2655688	1.6648155	1.5397925	3.4213413	3.4481135
Range	0.0664	10.716	0.0255	0.0407	0.584	0.00315	0.0038	0.0456	0.00025	0.2562	0.01005	0.3079
Minimum	0.0023	0.784	0.0025	0.002	0.198	0.00005	0.0001	0.0001	0.00005	0.0358	0.00005	0.0121
Maximum	0.0687	11.5	0.028	0.0427	0.782	0.0032	0.0039	0.0457	0.0003	0.292	0.0101	0.32
Count	73	73	75	73	73	73	73	73	32	73	73	73
Confidence Level(95.0%	0.0029084	0.4679517	0.0014234	0.0016119	0.0305316	0.0001326	0.0001755	0.0020781	1.939E-05	0.0098941	0.0004549	0.0130163

Descriptive Statistics for Rennies River- NF02ZM0016

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.71358025	633.998485	15.5363409	1.74992474	11.6000295	6.65833333	8.70149254	10.0707733	111.448099	1.60924603	1.67635965	12.9108779	173.674046
Standard Error	0.62697632	63.363506	0.9136251	0.32073977	0.17307883	0.02022809	0.21597032	0.39157084	13.4982183	0.03213656	0.16054636	1.07679214	18.3311983
Median	8.15	450	10	0.83	11.7	6.655	8.75	9.2	71.9	1.595	1.295	9.74	121
Mode	0.5	492	10	0.5	13.8	6.58	9.5	10.3	41.2	1.4	1.3	10.3	110
Standard Deviation	6.51572909	727.991259	10.5364387	3.69895142	1.83985315	0.23415707	2.50003714	4.37789513	144.121534	0.36073195	1.71416607	12.3244493	209.810155
Sample Variance	42.4547256	529971.273	111.01654	13.6822416	3.38505962	0.05482953	6.25018573	19.1659658	20771.0164	0.13012754	2.93836532	151.892052	44020.3009
Skewness	0.29381729	4.54472139	1.44598095	5.69780346	-0.0897713	0.48971071	0.56269118	2.82687685	4.38607571	0.37998659	5.56932184	5.60274241	4.63714728
Range	23.1	5349	57.5	31	8.3	1.51	16.2	30.66	1015.6	1.82	14.03	109.59	1632
Minimum	0.3	203	2.5	0	8.1	6.13	3.3	4.84	34.4	0.88	0.67	2.41	22
Maximum	23.4	5552	60	31	14.4	7.64	19.5	35.5	1050	2.7	14.7	112	1654
Count	108	132	133	133	113	134	134	125	114	126	114	131	131
Confidence Level(95.0%)	1.24290826	125.348056	1.80723853	0.63445418	0.34293329	0.04001035	0.42718064	0.77502785	26.7423947	0.06360223	0.31807118	2.13030228	36.2660459

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	2.87171795	0.01709518	0.52921923	0.71855801	3.2991129	0.10917521	0.00013066	0.03236586	0.05493734	0.00015474	0.00037761	0.00054328
Standard Error	8.01E-307	0.08049066	0.00081058	0.04129976	0.01711335	0.07633156	0.00935065	7.381E-06	0.0009319	0.00183256	1.2819E-05	1.7369E-05	5.7456E-05
Median	0.025	2.75	0.01525	0.45	0.726	3.28	0.087	0.0001	0.0309	0.05	0.0001	0.0003	0.0004
Mode		2.1	0.0131	0.36	0.801	2.84	0.058	0.0001	0.0286	0.05	0.0001	0.0002	0.0003
Standard Deviation		0.91773475	0.00931282	0.47088974	0.19285764	0.84999231	0.1078369	7.041E-05	0.01074719	0.0211341	0.00014784	0.00019879	0.00065761
Sample Variance		0.84223708	8.6729E-05	0.22173715	0.03719407	0.72248692	0.0116288	4.9576E-09	0.0001155	0.00044665	2.1856E-08	3.9519E-08	4.3245E-07
Skewness		1.00859438	2.79463901	5.46161858	0.35141446	-0.2804876	5.028482	1.61293955	1.61116813	0.76307064	3.16308461	1.05974532	5.30569019
Range	0	5.3	0.0769	4.39	1.268	4.29	0.978	0.00035	0.0716	0.125	0.00095	0.00095	0.0059
Minimum	0.025	0.9	0.0029	0.01	0.13	0.77	0.02	0.00005	0.0157	0.025	0.00005	0.00005	0.0001
Maximum	0.025	6.2	0.0798	4.4	1.398	5.06	0.998	0.0004	0.0873	0.15	0.001	0.001	0.006
Count	1	130	132	130	127	124	133	91	133	133	133	131	131
Confidence Level(95.0%)		0.1592527	0.00160351	0.08171257	0.03386679	0.15109359	0.01849648	1.4664E-05	0.00184339	0.00362498	2.5358E-05	3.4362E-05	0.00011367

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00420076	0.55538415	0.00939934	0.00211858	0.21044173	0.00015323	0.00040776	0.00153743	0.00011268	0.04620298	0.00031508	0.02559494
Standard Error	0.00037156	0.03684234	0.00129262	0.00015534	0.00807578	1.4083E-05	2.4598E-05	0.0001907	9.736E-06	0.00169773	3.324E-05	0.00159723
Median	0.0031	0.469	0.005	0.0018	0.198	0.0001	0.00033333	0.0008	0.0001	0.0425	0.0002	0.0202
Mode	0.0027	0.428	0.005	0.0015	0.12	0.00005	0.0003	0.0012	0.0001	0.0327	0.0002	0.0121
Standard Deviation	0.00425272	0.42167989	0.01392197	0.00177797	0.09243152	0.00016119	0.00028154	0.00218263	6.6033E-05	0.01943137	0.00038045	0.01828118
Sample Variance	1.8086E-05	0.17781393	0.00019382	3.1612E-06	0.00854359	2.5981E-08	7.9265E-08	4.7639E-06	4.3603E-09	0.00037758	1.4475E-07	0.0003342
Skewness	5.48374044	7.05454303	4.69330517	6.37432415	0.94683345	4.26264315	2.45784802	3.48570322	2.52990536	2.18399107	5.1801108	3.28786615
Range	0.03593333	4.313	0.0975	0.0173	0.492	0.00135	0.0019	0.0139	0.00035	0.1236	0.00335	0.1483
Minimum	0.00166667	0.217	0.0025	0.0007	0.033	0.00005	0.0001	0.0001	0.00005	0.0204	0.00005	0.0067
Maximum	0.0376	4.53	0.1	0.018	0.525	0.0014	0.002	0.014	0.0004	0.144	0.0034	0.155
Count	131	131	116	131	131	131	131	131	46	131	131	131
Confidence Level(95.0%)	0.00073509	0.07288809	0.00256044	0.00030733	0.01597695	2.7861E-05	4.8665E-05	0.00037727	1.9809E-05	0.00335875	6.5762E-05	0.00315993

Descriptive Statistics for Mundy Pond- NF02ZM0109

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.6222222	1079.2447	18.848523	3.9716034	10.766545	6.7019583	12.112958	15.168164	197.65088	1.7371014	2.7878947	21.735897	311.68632
Standard Error	0.9079516	106.01677	1.1993788	0.5858025	0.2248981	0.0282976	0.7517576	0.8774454	23.870348	0.0588324	0.2514171	1.5889759	31.438497
Median	8.4	705	20	2	10.5	6.705	11.2	13.2	124	1.6433333	1.97	16.55	199.5
Mode	2.1	611	20	1.1	12.6	6.86	14	10.6	104	1.8	1.9	13.2	129
Standard Deviation	6.4840717	942.29763	10.660312	5.2067264	1.6678887	0.253101	6.7239245	7.2886086	180.21717	0.4886984	1.8981577	14.033455	277.65728
Sample Variance	42.043185	887924.83	113.64224	27.109999	2.7818527	0.0640601	45.211161	53.123815	32478.229	0.2388261	3.6030026	196.93786	77093.567
Skewness	0.4011577	2.3098442	0.9863113	3.1920732	0.2656643	0.4260044	4.458893	2.1324024	2.0606836	1.1630327	2.1463811	2.338811	2.3072105
Range	22.9	4550	47.5	29.69	7.9	1.31	46.7	38.92	754.2	1.97	8.67	80	1385.9
Minimum	0.5	311	2.5	0.31	6.8	6.19	4.9	6.78	50.8	1.08	1.1	0.9	74.1
Maximum	23.4	4861	50	30	14.7	7.5	51.6	45.7	805	3.05	9.77	80.9	1460
Count	51	79	79	79	55	80	80	69	57	69	57	78	78
Confidence Level(95.0%	1.8236753	211.06322	2.3877802	1.1662434	0.4508939	0.0563249	1.4963374	1.7509139	47.81802	0.1173981	0.5036487	3.164059	62.60212

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.2425316	0.0157804	0.6354544	0.8583379	3.3437131	0.2019667	0.0001773	0.0409495	0.0581875	0.0001709	0.000711	0.0005099
Standard Error	0.1093771	0.0011053	0.0875907	0.0353024	0.177995	0.0247901	2.235E-05	0.002231	0.0034532	1.62E-05	5.45E-05	6.001E-05
Median	3.2166667	0.0133	0.54	0.843	3.67	0.143	0.0001	0.03505	0.05	0.0001	0.0006	0.0004
Mode	3.4	0.0097	0.005	1.1	5.09	0.182	0.0001	0.0282	0.025	0.0001	0.0005	0.0003
Standard Deviation	0.953527	0.0097613	0.7686049	0.3016237	1.5820541	0.221729	0.0001999	0.0199544	0.0308861	0.0001449	0.0004813	0.00053
Sample Variance	0.9092138	9.528E-05	0.5907535	0.0909769	2.5028952	0.0491638	3.997E-08	0.0003982	0.000954	2.099E-08	2.317E-07	2.809E-07
Skewness	-0.228516	1.7766632	3.0976667	0.7192016	-0.591107	4.0762941	5.8470659	1.5304843	1.4888532	2.0927215	2.060052	3.6875168
Range	5	0.0572	4.905	1.38	5.74	1.541	0.00165	0.0928	0.165	0.00075	0.0028	0.0033
Minimum	0.8	0.0002	0.005	0.35	0.07	0.029	0.00005	0.0122	0.025	0.00005	0.0002	0.0001
Maximum	5.8	0.0574	4.91	1.73	5.81	1.57	0.0017	0.105	0.19	0.0008	0.003	0.0034
Count	76	78	77	73	79	80	80	80	80	80	78	78
Confidence Level(95.0%	0.2178903	0.0022008	0.1744521	0.070374	0.3543609	0.0493434	4.449E-05	0.0044406	0.0068734	3.224E-05	0.0001085	0.0001195

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0047748	0.5976452	0.0081608	0.0037829	0.2961405	0.000364	0.0007701	0.0022188	0.0001117	0.0544324	0.0004734	0.047438
Standard Error	0.0002835	0.0699611	0.0009447	0.0002676	0.0264043	3.473E-05	3.747E-05	0.000359	1.09E-05	0.0033059	5.359E-05	0.0040383
Median	0.0041	0.454	0.005	0.0033	0.2105	0.0003	0.0007	0.0012	0.0001	0.04585	0.0004	0.0371
Mode	0.004	0.454	0.0025	0.0036	0.108	0.0002	0.0007	0.0001	0.0001	0.0507	0.0002	0.0263
Standard Deviation	0.0025036	0.6178795	0.0084497	0.002363	0.2331967	0.0003067	0.0003309	0.003171	5.972E-05	0.0291968	0.0004733	0.0356655
Sample Variance	6.268E-06	0.381775	7.14E-05	5.584E-06	0.0543807	9.409E-08	1.095E-07	1.006E-05	3.566E-09	0.0008525	2.24E-07	0.001272
Skewness	2.7634168	5.636215	3.4601178	1.5650906	2.1728456	2.1724451	3.5059514	3.7957718	1.4673465	2.4740699	3.1359708	0.7706485
Range	0.0131	5.009	0.0545	0.0111	1.2919	0.00165	0.0027	0.0215	0.00025	0.1648	0.00305	0.1321
Minimum	0.0019	0.151	0.0025	0.0008	0.0581	0.00005	0.0002	0.0001	0.00005	0.0242	0.00005	0.0039
Maximum	0.015	5.16	0.057	0.0119	1.35	0.0017	0.0029	0.0216	0.0003	0.189	0.0031	0.136
Count	78	78	80	78	78	78	78	78	30	78	78	78
Confidence Level(95.0%	0.0005645	0.1393105	0.0018804	0.0005328	0.0525778	6.916E-05	7.461E-05	0.000715	2.23E-05	0.0065829	0.0001067	0.0080413

Descriptive Statistics for Waterford River- NF02ZM0009

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.00545171	561.809948	14.0596899	1.19220922	11.9953704	6.6734359	9.15220513	11.9469106	92.0948949	2.35907859	1.56424925	12.8407813	153.197507
Standard Error	0.60854317	28.4350319	0.86033035	0.19995671	0.15797363	0.02416251	0.23589802	0.34468416	5.71495749	0.05050674	0.07365256	0.45303667	8.56534164
Median	7.6	478	10	0.68	11.9	6.875	9.4	11.6	75.8	2.32	1.38	11.95	130
Mode	0.3	283	10	0.5	14.1	6.85	7.7	11.3	106	2.2	1.39	12.1	107
Standard Deviation	6.2948195	322.95988	9.77147446	2.27107168	1.64171009	0.27549499	2.68965125	3.82273224	60.2108134	0.56014689	0.7759779	5.12552478	96.5264981
Sample Variance	39.6247525	104303.084	95.4817131	5.15776658	2.69521201	0.07589749	7.23422387	14.6132818	3625.34204	0.31376454	0.6021417	26.2710043	9317.36483
Skewness	0.30982094	2.15806473	1.55506777	6.02174411	-0.1145206	1.28793809	-0.3101783	0.66377102	2.29179619	0.21324146	4.46386021	2.45071013	2.20088548
Range	21.2	2054	47.5	19.975	5.6	2.03	14	22.73	356.3	2.8	6.8	38.56	569.6
Minimum	0.1	12	2.5	0.025	9	6.09	1.1	2.27	26.7	1.1	0.77	1.52	45.4
Maximum	21.3	2066	50	20	14.6	8.12	15.1	25	383	3.7	7.37	40.1	615
Count	107	129	129	129	108	130	130	123	111	123	111	128	127
Confidence Level(95.0%)	1.20649672	56.2635273	1.70230934	0.39564823	0.3131645	0.0478061	0.46672986	0.68233732	11.3257097	0.09998323	0.14596216	0.89647777	16.95055

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	3.0831746	0.03919557	0.65124525	0.85228091	4.04566667	0.13813046	0.00015123	0.02072408	0.04489744	0.00012459	0.00053609	0.00046716
Standard Error	8.01E-307	0.09136573	0.00487984	0.02560267	0.026848	0.10146527	0.01783958	9.3487E-06	0.00066067	0.00214987	1.0153E-05	3.0625E-05	7.6362E-05
Median	0.025	2.88333333	0.02585	0.59	0.806	4.25	0.085495	0.0001	0.0186	0.05	0.0001	0.0005	0.0002
Mode		2.7	0.0229	0.71	0.806	3.71	0.067	0.0001	0.0153	0.025	0.0001	0.0003	0.0002
Standard Deviation		1.02557777	0.05520907	0.28852743	0.29532798	1.1114963	0.20340248	8.967E-05	0.00753275	0.02451226	0.00011576	0.00034649	0.00066394
Sample Variance		1.05180975	0.00304804	0.08324808	0.08721862	1.23542401	0.04137257	8.0407E-09	5.6742E-05	0.00060085	1.34E-08	1.2005E-07	7.4638E-07
Skewness		1.21395742	6.94145736	0.67577043	1.64462155	-0.6814662	4.86734436	1.67142381	1.00603722	2.4492385	3.19508878	3.20883054	5.67719058
Range	0	5.9	0.5329	1.755	2.16	5.1	1.542	0.00045	0.0358	0.165	0.00075	0.0028	0.0075
Minimum	0.025	1.4	0.0081	0.005	0.131	0.77	0.028	0.00005	0.0087	0.025	0.00005	0.0001	0.0001
Maximum	0.025	7.3	0.541	1.76	2.291	5.87	1.57	0.0005	0.0445	0.19	0.0008	0.0029	0.0076
Count	1	126	128	127	121	120	130	92	130	130	130	128	128
Confidence Level(95.0%)		0.18082412	0.00965632	0.0506669	0.05315713	0.2009111	0.03529603	1.857E-05	0.00130714	0.00425356	2.0087E-05	6.0602E-05	0.00015111

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00302961	0.30385677	0.00971083	0.00219766	0.19040755	8.9948E-05	0.0004599	0.00132703	0.0001078	0.05689305	0.00026919	0.03278221
Standard Error	0.00028621	0.03533325	0.0010113	9.7367E-05	0.01073395	1.0101E-05	2.8179E-05	0.00030985	7.4303E-06	0.00154917	4.0757E-05	0.00191421
Median	0.0022	0.204	0.006	0.002	0.1595	0.00005	0.0004	0.00038333	0.0001	0.05505	0.0002	0.0256
Mode	0.0021	0.176	0.005	0.0027	0.154	0.00005	0.0003	0.0001	0.0001	0.0461	0.0001	0.0122
Standard Deviation	0.00323813	0.39975009	0.01075028	0.00110159	0.12144075	0.00011428	0.00031881	0.00350556	5.0939E-05	0.01752688	0.00046112	0.02185679
Sample Variance	1.0485E-05	0.15980014	0.00011557	1.2135E-06	0.01474786	1.306E-08	1.0164E-07	1.2289E-05	2.5948E-09	0.00030719	2.1263E-07	0.00048902
Skewness	5.1237696	4.76590827	3.36898831	2.30567705	2.75209714	7.62774426	2.11496586	5.62033066	0.81735023	0.55404978	4.80690512	1.91225267
Range	0.0263	2.706	0.0675	0.0069	0.956	0.00115	0.0017	0.0295	0.00015	0.0895	0.00345	0.1153
Minimum	0.0011	0.104	0.0025	0.0007	0.042	0.00005	0.0001	0.0001	0.00005	0.0225	0.00005	0.0087
Maximum	0.0274	2.81	0.07	0.0076	0.998	0.0012	0.0018	0.0296	0.0002	0.112	0.0035	0.124
Count	128	128	113	128	128	128	128	128	47	128	128	128
Confidence Level(95.0%)	0.00056636	0.06991812	0.00200376	0.00019267	0.02124054	1.9988E-05	5.5762E-05	0.00061314	1.4956E-05	0.00306553	8.0651E-05	0.00378787

Descriptive Statistics for Quidi Vidi Lake Outlet- NF02ZM0015

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.4498471	543.51578	15.094656	1.6961959	11.517847	6.7044192	9.3402778	10.240013	88.689705	1.9454667	1.4935102	12.188923	144.72474
Standard Error	0.6563259	18.541851	0.7605512	0.3816663	0.1578557	0.0219555	0.1873543	0.2104061	3.47899	0.0308614	0.0388562	0.3051316	5.2246882
Median	7.2	487	11.4	0.87	11.8	6.6916667	9.55	9.8	77.6	1.9	1.37	11.1	128
Mode	0.8	487	20	1	13.1	6.54	9.7	10.1	60.7	1.78	1.43	10.6	126
Standard Deviation	6.8522437	212.22119	8.7049066	4.3683709	1.6780293	0.2522494	2.1525367	2.3524122	36.982171	0.3450413	0.4130467	3.4790356	59.570611
Sample Variance	46.953243	45037.832	75.775399	19.082665	2.8157823	0.0636298	4.6334141	5.5338433	1367.681	0.1190535	0.1706076	12.103689	3548.6577
Skewness	0.3835572	1.2762652	0.816501	9.4105721	-0.1801874	0.2551489	-0.1003901	0.666858	1.2590085	0.3830895	1.6615574	0.6788789	1.2280056
Range	22.6	1088	37.5	48	7.1	1.69	11	10.6	177.9	1.4	2.45001	21.79	314.8
Minimum	0.1	196	2.5	0	8.1	6.01	3.1	6.1	40.1	1.3	0.93999	2.11	61.2
Maximum	22.7	1284	40	48	15.2	7.7	14.1	16.7	218	2.7	3.39	23.9	376
Count	109	131	131	131	113	132	132	125	113	125	113	130	130
Confidence Level(95.0%	1.3009501	36.682797	1.5046581	0.7550804	0.3127707	0.0434332	0.3706312	0.4164524	6.8931684	0.0610834	0.0769885	0.6037102	10.33717

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	3.0372656	0.0125523	0.4183385	0.6727579	2.373388	0.0847675	0.0001085	0.0366717	0.0436869	0.0001082	0.0003336	0.0003524
Standard Error	8.01E-307	0.0650799	0.0004312	0.0174673	0.0137411	0.1317906	0.0053109	5.507E-06	0.00083	0.0016501	6.082E-06	1.679E-05	2.773E-05
Median	0.025	2.975	0.0119	0.42	0.6695	2.4	0.066	0.0001	0.03495	0.05	0.0001	0.0003	0.0003
Mode		2.8	0.0094	0.53	0.562	1.47	0.035	0.0001	0.0358	0.025	0.0001	0.0002	0.0003
Standard Deviation		0.7362952	0.0049162	0.1983908	0.1542434	1.4556753	0.0610181	5.224E-05	0.0095363	0.0189583	6.988E-05	0.0001915	0.0003162
Sample Variance		0.5421306	2.417E-05	0.0393589	0.023791	2.1189904	0.0037232	2.729E-09	9.094E-05	0.0003594	4.883E-09	3.667E-08	9.999E-08
Skewness		0.5839908	0.8440511	0.2198498	0.062467	-0.0924112	1.3334056	1.5942869	0.6623145	0.450169	1.8815373	1.0141211	4.6053419
Range	0	4	0.0255	1.175	0.6745	4.85	0.311	0.00025	0.0445	0.065	0.00035	0.0008833	0.0027
Minimum	0.025	1.5	0.0039	0.005	0.3225	0.01	0.006	0.00005	0.0169	0.025	0.00005	0.00005	0.0001
Maximum	0.025	5.5	0.0294	1.18	0.997	4.86	0.317	0.0003	0.0614	0.09	0.0004	0.0009333	0.0028
Count	1	128	130	129	126	122	132	90	132	132	132	130	130
Confidence Level(95.0%)		0.1287814	0.0008531	0.0345621	0.0271953	0.2609146	0.0105063	1.094E-05	0.001642	0.0032643	1.203E-05	3.323E-05	5.487E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0029313	0.3018823	0.0083913	0.0022567	0.1960131	0.0001179	0.0004247	0.0008658	0.0001072	0.0452492	0.000247	0.0256109
Standard Error	9.34E-05	0.0105005	0.0007476	6.542E-05	0.0083201	7.602E-06	1.933E-05	8.268E-05	9.291E-06	0.0009392	1.417E-05	0.001279
Median	0.00275	0.2705	0.005	0.0022	0.179	0.0001	0.0004	0.00059	0.0001	0.0435	0.0002	0.02285
Mode	0.0025	0.227	0.005	0.0022	0.2	0.00005	0.0004	0.0001	0.0001	0.0439	0.0002	0.0069
Standard Deviation	0.0010649	0.1197238	0.0080173	0.0007459	0.0948638	8.668E-05	0.0002204	0.0009427	6.302E-05	0.0107088	0.0001616	0.0145828
Sample Variance	1.134E-06	0.0143338	6.428E-05	5.564E-07	0.0089991	7.513E-09	4.857E-08	8.888E-07	3.971E-09	0.0001147	2.611E-08	0.0002127
Skewness	3.3249671	1.4146955	4.3996433	0.8509406	1.1285157	2.0320987	1.8813255	2.6162374	2.5656504	0.425775	1.8618941	0.3629484
Range	0.0082333	0.7623	0.0665	0.0047	0.4928	0.00045	0.0016	0.006	0.00035	0.0554	0.00095	0.0581
Minimum	0.0016667	0.0987	0.0025	0.0007	0.0482	0.00005	0.0001	0.0001	0.00005	0.0203	0.00005	0.0037
Maximum	0.0099	0.861	0.069	0.0054	0.541	0.0005	0.0017	0.0061	0.0004	0.0757	0.001	0.0618
Count	130	130	115	130	130	130	130	130	46	130	130	130
Confidence Level(95.0%	0.0001848	0.0207754	0.001481	0.0001294	0.0164615	1.504E-05	3.824E-05	0.0001636	1.871E-05	0.0018583	2.804E-05	0.0025305

Descriptive Statistics for Raymond Brook- NF02ZM0017

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.79821429	38.2352	36.2205333	0.51065333	11.9963964	6.09138667	2.0955	1.136200395	4.486962617	0.624448898	0.28546729	1.895786667	7.3306
Standard Error	0.68865275	0.68023929	1.97645502	0.02903495	0.17617916	0.02942179	0.132358569	0.028238162	0.085266735	0.010230482	0.007963085	0.030759214	0.1566562
Median	5.7	37.5	30	0.46	12.4	6.07333333	1.8	1.04	4.36	0.61	0.27	1.9	7.02
Mode	0.1	34.8	30	0.37	14.1	6.03	1.4	0.97	3.81	0.57	0.22	2.07	7.02
Standard Deviation	7.26684965	7.605306467	22.0974389	0.3246206	1.8772339	0.32894563	1.183851031	0.30674495	0.882005969	0.111131483	0.082370792	0.343898466	1.75149192
Sample Variance	52.8071039	57.84068645	488.296806	0.10537853	3.5240071	0.10820523	1.401503263	0.094092464	0.777934529	0.012350206	0.006784947	0.118266155	3.06772394
Skewness	0.51905119	2.657382052	1.47959583	5.04918425	-0.3067096	0.49237257	1.186168901	1.143668599	2.264627006	0.280948658	1.952516724	1.081328589	1.49794853
Range	23.8	64.1	137.5	3.13	6.7	1.89	5.5	1.95	6.92	0.67	0.55	2.51	13.35
Minimum	0	19.9	2.5	0.07	8.2	5.36	0.5	0.47	2.11	0.3	0.16	1.06	2.55
Maximum	23.8	84	140	3.2	14.9	7.25	6	2.42	9.03	0.97	0.71	3.57	15.9
Count	112	125	125	125	111	125	80	118	107	118	107	125	125
Confidence Level(95.0%)	1.36064783	1.346383171	3.91195542	0.05746826	0.35310943	0.05823393	0.263453364	0.055924195	0.169049694	0.020260932	0.0157876	0.060881058	0.31007025

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.02661247	0.008220956	0.01801	0.15920513	2.08994253	0.12561584	0.000182941	0.001187013	0.0286	0.0000632	0.000199919	0.000171003
Standard Error	0.18217655	0.000835771	0.00292963	0.00523712	0.08300804	0.00513207	1.23995E-05	9.93196E-05	0.00078822	2.21024E-06	1.39558E-05	2.27956E-05
Median	4.3	0.00645	0.01	0.148	1.92	0.109	0.0001	0.001	0.025	0.00005	0.0002	0.0001
Mode	4.2	0.0056	0.005	0.128	1.28	0.17	0.0001	0.001	0.025	0.00005	0.0001	0.0001
Standard Deviation	2.02043571	0.009231391	0.03275429	0.05864812	0.89402396	0.05737827	0.000114318	0.001110426	0.008812564	2.47112E-05	0.000154778	0.000252815
Sample Variance	4.08216047	8.52186E-05	0.00107284	0.00320901	0.79927884	0.00329227	1.30686E-08	1.23305E-06	7.76613E-05	6.10645E-10	2.39562E-08	6.39155E-08
Skewness	1.40084064	7.396284658	6.40378262	2.47549989	0.54224058	1.25983485	1.09436581	8.462959523	2.05268639	2.085052734	2.513204374	8.581042189
Range	10.7	0.0928	0.3075	0.462	3.73	0.357	0.00045	0.0121	0.025	0.00015	0.00095	0.0026
Minimum	1.3	0.0014	0.0025	0.054	0.42	0.028	0.00005	0.0003	0.025	0.00005	0.00005	0.0001
Maximum	12	0.0942	0.31	0.516	4.15	0.385	0.0005	0.0124	0.05	0.0002	0.001	0.0027
Count	123	122	125	117	116	125	85	125	125	125	123	123
Confidence Level(95.0%)	0.360637	0.00165463	0.00579856	0.01037277	0.16442288	0.01015779	2.46578E-05	0.000196581	0.001560107	4.37468E-06	2.7627E-05	4.51261E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00080276	0.282089431	0.0045787	0.000381	0.05135848	7.1545E-05	0.000229648	0.000237236	0.000101389	0.007150976	0.000174715	0.001305772
Standard Error	9.293E-05	0.016967931	0.00022182	1.5006E-05	0.00330604	8.2057E-06	5.34921E-05	2.1333E-05	5.93074E-06	0.000141511	1.00998E-05	6.1811E-05
Median	0.0005	0.211	0.005	0.0004	0.0412	0.00005	0.0001	0.0001	0.0001	0.006866667	0.0002	0.0012
Mode	0.0004	0.125	0.005	0.0004	0.0389	0.00005	0.0001	0.0001	0.0001	0.0074	0.0001	0.0012
Standard Deviation	0.00103065	0.188405266	0.00230518	0.00016642	0.03686571	9.1006E-05	0.000593257	0.000236595	4.10894E-05	0.001569433	0.000112012	0.000685518
Sample Variance	1.0622E-06	0.035496544	5.3138E-06	2.7697E-08	0.00134437	8.282E-09	3.51953E-07	5.59772E-08	1.68834E-09	2.46312E-06	1.25466E-08	4.69934E-07
Skewness	3.35655006	1.927350017	2.47302868	2.14101371	2.9496176	9.02178643	10.3297046	2.17182287	1.189099206	0.477810807	1.865272857	0.895964072
Range	0.0066	1.1376	0.0155	0.00135	0.243	0.00095	0.0065	0.0011	0.00015	0.0094	0.00065	0.004
Minimum	0.0001	0.0624	0.0025	0.00005	0.017	0.00005	0.0001	0.0001	0.00005	0.003	0.00005	0.0001
Maximum	0.0067	1.2	0.018	0.0014	0.26	0.001	0.0066	0.0012	0.0002	0.0124	0.0007	0.0041
Count	123	123	108	123	123	123	123	123	48	123	123	123
Confidence Level(95.0%)	0.00018397	0.033629335	0.00043972	2.9706E-05	0.00654463	1.6244E-05	0.000105893	4.22309E-05	1.19311E-05	0.000280135	1.99935E-05	0.000122361

Descriptive Statistics for Mobile River- NF02ZM0018

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.29933993	36.6345873	51.7295597	0.44408805	12.2896667	6.02625786	2.06532258	1.21889909	4.34397619	0.54893649	0.22788889	1.87856132	8.74403302
Standard Error	0.64517998	0.57016807	2.57450375	0.01947258	0.17622599	0.03292478	0.13454429	0.02247488	0.06042661	0.01030414	0.00643185	0.04113352	0.16160386
Median	6.4	36	50	0.415	12.55	6.04833333	1.95	1.24	4.27	0.54	0.22	1.89	6.475
Mode	0.1	36.6	50	0.4	14.3	6.16	1.4	1.3	4.34	0.5	0.24	1.94	6.19
Standard Deviation	6.48397851	5.84248413	26.5061384	0.2004825	1.76225989	0.33898134	1.05940277	0.23139304	0.61918846	0.10608762	0.06590683	0.42349546	1.66381359
Sample Variance	42.0419773	34.1346208	702.575372	0.04019323	3.10555993	0.11490835	1.12233423	0.05354274	0.38339435	0.01125458	0.00434371	0.17934841	2.76827565
Skewness	0.34185928	1.93764929	1.05021504	2.6468274	-0.2214412	-0.0462065	1.39573532	-0.0675911	1.17736776	2.20029453	1.87296751	-0.0798288	2.39866736
Range	19.6	47.1	137.5	1.72	5.7	1.52333333	6.55	1.37	4.64	0.94	0.41333333	2.239	13.62
Minimum	0	20.6	2.5	0	9.2	5.26	0.05	0.52	2.46	0.25	0.12	0.661	2.98
Maximum	19.6	67.7	140	1.72	14.9	6.78333333	6.6	1.89	7.1	1.19	0.53333333	2.9	16.6
Count	101	105	106	106	100	106	62	106	105	106	105	106	106
Confidence Level(95.0%)	1.28001884	1.13066321	5.10476898	0.03861056	0.34967066	0.0652838	0.269038	0.04456357	0.11982807	0.02043122	0.01275458	0.08156022	0.32043083

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.8748254	0.0055523	0.01369276	0.15753407	2.66078179	0.17838349	0.00014308	0.00241203	0.02580189	6.1478E-05	0.00027708	0.00023292
Standard Error	0.22320445	0.00029261	0.00166594	0.00544082	0.10104984	0.00653781	9.7367E-06	5.5265E-05	0.00046502	3.6257E-06	2.311E-05	5.5076E-05
Median	5.2	0.004825	0.005	0.149	2.71	0.1645	0.0001	0.00231667	0.025	0.00005	0.0002	0.0001
Mode	6.2	0.0038	0.005	0.109	3.29	0.137	0.0001	0.0025	0.025	0.00005	0.0002	0.0001
Standard Deviation	2.28716499	0.00301257	0.01707077	0.05440815	0.99522548	0.06731088	7.85E-05	0.00056898	0.00478772	3.7329E-05	0.00023568	0.00056167
Sample Variance	5.23112371	9.0756E-06	0.00029141	0.00296025	0.99047375	0.00453075	6.1623E-09	3.2374E-07	2.2922E-05	1.3935E-09	5.5546E-08	3.1547E-07
Skewness	0.68412183	2.06299059	2.82549099	2.31885268	0.03533132	0.81572572	0.78608084	1.19967485	6.03937359	5.93547085	4.99738621	8.71924985
Range	10.6	0.0175	0.0975	0.398	4.43	0.304	0.00025	0.0033	0.035	0.00031667	0.00208333	0.0055
Minimum	1.6	0.001	0.0025	0.075	0.57	0.08	0.00005	0.0014	0.025	0.00005	0.00005	0.0001
Maximum	12.2	0.0185	0.1	0.473	5	0.384	0.0003	0.0047	0.06	0.00036667	0.00213333	0.0056
Count	105	106	105	100	97	106	65	106	106	106	104	104
Confidence Level(95.0%)	0.44262223	0.00058019	0.00330361	0.01079576	0.2005825	0.01296328	1.9451E-05	0.00010958	0.00092206	7.1891E-06	4.5834E-05	0.00010923

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00074846	0.33652458	0.00457364	0.0004116	0.05128422	5.5288E-05	0.00020825	0.00028579	9.5833E-05	0.00772778	0.00016603	0.0018774
Standard Error	0.00011269	0.03159142	0.00028368	1.1509E-05	0.00480056	1.9225E-06	4.4842E-05	2.7369E-05	6.108E-06	0.0001426	7.1941E-06	6.9799E-05
Median	0.0004	0.273	0.005	0.0004	0.03875	0.00005	0.0001	0.0002	0.0001	0.0077	0.0002	0.00175
Mode	0.0003	0.21	0.005	0.0004	0.032	0.00005	0.0001	0.0001	0.0001	0.0075	0.0002	0.0013
Standard Deviation	0.0011492	0.32217058	0.00266111	0.00011737	0.04895625	1.9606E-05	0.0004573	0.00027911	4.2318E-05	0.00145429	7.3366E-05	0.00071181
Sample Variance	1.3207E-06	0.10379388	7.0815E-06	1.3776E-08	0.00239671	3.8438E-10	2.0912E-07	7.7902E-08	1.7908E-09	2.115E-06	5.3825E-09	5.0667E-07
Skewness	4.2085292	6.33690368	2.75663884	0.11826952	5.52733714	4.90154694	9.39042811	2.74791146	1.26139568	0.06708922	0.2588354	0.42063648
Range	0.0085	3.00961	0.0175	0.00075	0.43363333	0.00015	0.0046	0.0016	0.00015	0.0091	0.00035	0.0036
Minimum	0.0001	0.09039	0.0025	0.00005	0.0147	0.00005	0.0001	0.0001	0.00005	0.0035	0.00005	0.0004
Maximum	0.0086	3.1	0.02	0.0008	0.44833333	0.0002	0.0047	0.0017	0.0002	0.0126	0.0004	0.004
Count	104	104	88	104	104	104	104	104	48	104	104	104
Confidence Level(95.0%)	0.00022349	0.06265408	0.00056384	2.2826E-05	0.00952076	3.8128E-06	8.8933E-05	5.428E-05	1.2288E-05	0.00028282	1.4268E-05	0.00013843

Descriptive Statistics for Seal Cove River- NF02ZM0019

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.40967742	42.5289116	47.9761905	0.5267685	11.8397959	6.19445578	2.80900433	1.32591837	4.88214286	0.85732959	0.24914966	2.13132653	7.96897959
Standard Error	0.74072759	1.14150352	2.59027124	0.0441487	0.1850034	0.03601209	0.18956217	0.0342589	0.12211288	0.02508026	0.00492417	0.0462791	0.32443719
Median	7.5	40.35	40	0.45	12.15	6.19	2.3	1.29	4.66	0.81	0.24	2.055	7.215
Mode	0.7	36.6	30	0.57	9.7	6.41	1.7	1.2	5.02	0.79	0.26	1.95	7.26
Standard Deviation	7.14331819	11.3003083	25.642377	0.43704987	1.83144019	0.35650145	1.86340128	0.33914581	1.20885585	0.24828192	0.04874675	0.45813976	3.21176432
Sample Variance	51.0269947	127.696968	657.531501	0.19101259	3.35417315	0.12709329	2.76690382	0.11501988	1.46133247	0.06164391	0.00237625	0.20989204	10.31543
Skewness	0.3370094	2.96643858	0.8278767	5.43288217	-0.1498946	0.04059253	1.36692366	0.53022088	2.64655364	2.96688584	0.86978193	1.39931654	3.02091927
Range	22.6	86.8	117.5	3.9	6.1	2.06	7.6	1.72666667	9.06	1.99	0.28	3.03	22.52
Minimum	-0.4	23.2	2.5	0	8.5	5.14	0.6	0.5	2.74	0.4	0.15	1.14	3.78
Maximum	22.2	110	120	3.9	14.6	7.2	8.2	2.22666667	11.8	2.39	0.43	4.17	26.3
Count	93	98	98	98	98	98	77	98	98	98	98	98	98
Confidence Level(95.0%)	1.47114893	2.26556723	5.14096852	0.08762291	0.36718032	0.07147398	0.37754626	0.0679944	0.24236013	0.04977735	0.0097731	0.09185116	0.64391765

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.64996599	0.00482088	0.01303997	0.15654609	1.54162921	0.15591976	0.0001114	0.00362126	0.025	5.5102E-05	0.00010781	0.00022938
Standard Error	0.24920915	0.00021379	0.00160748	0.00531632	0.06936192	0.00587907	9.2833E-06	9.9379E-05	1.7087E-10	1.9848E-06	7.076E-06	2.9639E-05
Median	5.1	0.0043	0.005	0.146	1.55	0.146	0.0001	0.0035	0.025	0.00005	0.0001	0.0002
Mode	3.7	0.0039	0.005	0.159	1.67	0.135	0.0001	0.0035	0.025	0.00005	0.0001	0.0001
Standard Deviation	2.46704476	0.0021164	0.01591322	0.05099238	0.65435902	0.0581998	7.0088E-05	0.00098381	1.8916E-09	1.9649E-05	6.9331E-05	0.0002904
Sample Variance	6.08630985	4.4791E-06	0.00025323	0.00260022	0.42818573	0.00338722	4.9123E-09	9.6787E-07	2.8614E-18	3.8607E-10	4.8067E-09	8.4332E-08
Skewness	0.51655011	1.3023098	2.68044412	0.70809597	0.10226475	0.30514243	3.32618746	2.16807002	1.01561165	5.08289123	1.67348171	7.50414512
Range	9.1	0.0116	0.0775	0.26825	3.04	0.294	0.00045	0.0068	0	0.00015	0.00035	0.0027
Minimum	1.9	0.001	0.0025	0.05975	0.01	0.029	0.00005	0.0022	0.025	0.00005	0.00005	0.0001
Maximum	11	0.0126	0.08	0.328	3.05	0.323	0.0005	0.0088	0.025	0.0002	0.0004	0.0028
Count	98	98	98	92	89	98	57	98	98	98	96	96
Confidence Level(95.0%)	0.49461091	0.00042431	0.0031904	0.01056022	0.13784234	0.01166832	1.8597E-05	0.00019724	3.3914E-10	3.9393E-06	1.4048E-05	5.884E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00072233	0.18106097	0.0048875	0.00040269	0.02688229	5.7812E-05	0.00018965	0.00031931	0.0001184	0.0061091	0.00017559	0.00134219
Standard Error	9.0955E-05	0.00836506	0.00032753	1.9275E-05	0.00122575	3.7992E-06	1.549E-05	3.5759E-05	7.3645E-06	0.00015993	9.7633E-06	8.6236E-05
Median	0.00048333	0.1585	0.005	0.0004	0.02405	0.00005	0.0001	0.00015	0.0001	0.00585	0.0002	0.0012
Mode	0.0003	0.119	0.005	0.0003	0.025	0.00005	0.0001	0.0001	0.0001	0.0058	0.0002	0.0011
Standard Deviation	0.00089118	0.08196051	0.00292953	0.00018885	0.01200984	3.7225E-05	0.00015177	0.00035036	5.1023E-05	0.00156894	9.5661E-05	0.00084494
Sample Variance	7.942E-07	0.00671752	8.5821E-06	3.5666E-08	0.00014424	1.3857E-09	2.3034E-08	1.2275E-07	2.6033E-09	2.4553E-06	9.151E-09	7.1393E-07
Skewness	3.0897294	1.24655164	3.60384027	1.37493237	2.5607649	5.99053926	2.08410321	2.67869657	0.68661424	2.16767051	1.05824965	1.88051495
Range	0.005	0.4019	0.0175	0.00115	0.0693	0.00025	0.0008	0.0022	0.00015	0.0112	0.00054	0.0055
Minimum	0.0001	0.0641	0.0025	0.00005	0.0132	0.00005	0.0001	0.0001	0.00005	0.0031	0.00005	0.0002
Maximum	0.0051	0.466	0.02	0.0012	0.0825	0.0003	0.0009	0.0023	0.0002	0.0143	0.00059	0.0057
Count	96	96	80	96	96	96	96	96	48	96	96	96
Confidence Level(95.0%)	0.00018057	0.01660673	0.00065193	3.8265E-05	0.00243342	7.5425E-06	3.0751E-05	7.099E-05	1.4815E-05	0.00031749	1.9383E-05	0.0001712

Descriptive Statistics for Salmonier River- NF02ZN0004

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	9.12083333	39.8325344	34.0104408	0.46048201	11.4790429	6.49495868	4.33854342	2.12244048	4.12946032	0.68119021	0.2448254	2.00577778	8.57333333
Standard Error	0.75252924	0.4794909	1.56459928	0.02693647	0.200907	0.02218729	0.13722374	0.03342456	0.05604634	0.00974212	0.00338452	0.02446686	0.12494205
Median	8.95	39.4	30	0.4	11	6.49	4.3	2.155	4.09	0.675	0.24	1.985	6.315
Mode	0.1	41.4	30	0.35	14.1	6.37	5	2.3	4.26	0.66	0.25	2.22	6.29
Standard Deviation	7.37325061	5.27439986	17.2105921	0.29630116	2.01909035	0.24406022	1.49693426	0.35373228	0.57430414	0.1031009	0.03468103	0.28802098	1.36867162
Sample Variance	54.3648246	27.8192939	296.204479	0.08779438	4.07672585	0.05956539	2.24081217	0.12512652	0.32982524	0.0106298	0.00120277	0.07183524	1.873262
Skewness	0.15155928	1.53523811	1.8822742	3.75521597	0.20674185	-0.3100183	0.12855616	-0.0809977	1.72795851	1.75300798	1.82263986	0.82851805	2.44237077
Range	23.6	36.9	117.5	2.3	7	1.83	8.5	1.45	3.94	0.69	0.25	1.72	9.32
Minimum	0	29.3	2.5	0	8	5.49	0.1	1.4	3.06	0.5	0.18	1.32	4.38
Maximum	23.6	66.2	120	2.3	15	7.32	8.6	2.85	7	1.19	0.43	3.04	13.7
Count	96	121	121	121	101	121	119	112	105	112	105	120	120
Confidence Level(95.0%)	1.49395836	0.94935795	3.09779554	0.0533323	0.39859381	0.04392927	0.27174007	0.06623297	0.11114186	0.01930465	0.00671163	0.04844676	0.24739742

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.07106443	0.00497722	0.01426389	0.14504609	1.90892562	0.09565548	8.2959E-05	0.00345234	0.02789256	6.0331E-05	8.0952E-05	0.00016695
Standard Error	0.22674752	0.00031628	0.00138202	0.00308227	0.11452184	0.00407935	5.0882E-06	6.6008E-05	0.00073	1.848E-06	4.9778E-06	1.3852E-05
Median	4.5	0.0042	0.005	0.146	1.73	0.086	0.0001	0.0033	0.025	0.00005	0.00005	0.0001
Mode	4.3	0.0042	0.005	0.146	1.36	0.07	0.00005	0.0031	0.025	0.00005	0.00005	0.0001
Standard Deviation	2.47352341	0.00346472	0.01513929	0.03305363	1.25974029	0.04487286	4.8002E-05	0.00072609	0.00802995	2.0328E-05	5.4301E-05	0.00015111
Sample Variance	6.11831807	1.2004E-05	0.0002292	0.00109254	1.5869456	0.00201357	2.3042E-09	5.272E-07	6.448E-05	4.1322E-10	2.9486E-09	2.2834E-08
Skewness	5.25082916	3.08667937	1.96867738	0.14450583	9.05913238	1.71102831	3.72790948	2.30995711	2.43311922	1.46753705	2.94692287	5.4651581
Range	23	0.0224	0.0775	0.15301	13.97	0.251	0.00035	0.005	0.025	0.00005	0.00035	0.0013
Minimum	2.4	0.0004	0.0025	0.07199	0.83	0.028	0.00005	0.0022	0.025	0.00005	0.00005	0.0001
Maximum	25.4	0.0228	0.08	0.225	14.8	0.279	0.0004	0.0072	0.05	0.0001	0.0004	0.0014
Count	119	120	120	115	121	121	89	121	121	121	119	119
Confidence Level(95.0%)	0.44902133	0.00062627	0.00273654	0.00610595	0.22674513	0.00807682	1.0112E-05	0.00013069	0.00144534	3.6589E-06	9.8573E-06	2.7431E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00051384	0.13719182	0.00445175	0.00050364	0.02093308	6.7647E-05	0.00015286	0.00020345	9.0426E-05	0.0091844	0.0001507	0.0008588
Standard Error	6.5461E-05	0.00798039	0.00021346	1.3789E-05	0.00193774	6.7402E-06	1.0766E-05	1.7195E-05	7.2357E-06	0.00013444	7.8974E-06	8.798E-05
Median	0.0003	0.115	0.005	0.0005	0.0155	0.00005	0.0001	0.0001	0.0001	0.0092	0.0001	0.00059
Mode	0.0003	0.115	0.005	0.0005	0.0131	0.00005	0.0001	0.0001	0.0001	0.0092	0.0002	0.0003
Standard Deviation	0.0007141	0.08705561	0.00227916	0.00015042	0.02113828	7.3527E-05	0.00011745	0.00018757	4.9605E-05	0.00146656	8.615E-05	0.00095953
Sample Variance	5.0994E-07	0.00757871	5.1946E-06	2.2626E-08	0.00044683	5.4063E-09	1.3793E-08	3.5184E-08	2.4607E-09	2.1508E-06	7.4218E-09	9.207E-07
Skewness	4.92629945	2.83506296	2.81285066	-0.2733893	4.70213391	8.66959001	4.12876099	2.27536579	2.21681083	0.03874541	1.4546441	3.82048524
Range	0.0057	0.5092	0.0165	0.0006	0.1503	0.00075	0.0009	0.0009	0.00025	0.0067	0.00045	0.007
Minimum	0.0001	0.0448	0.0025	0.0001	0.0077	0.00005	0.0001	0.0001	0.00005	0.0063	0.00005	0.0001
Maximum	0.0058	0.554	0.019	0.0009	0.158	0.0008	0.001	0.001	0.0003	0.013	0.0005	0.0071
Count	119	119	114	119	119	119	119	119	47	119	119	119
Confidence Level(95.0%)	0.00012963	0.01580333	0.00042291	2.7306E-05	0.00383725	1.3348E-05	2.132E-05	3.405E-05	1.4565E-05	0.00026623	1.5639E-05	0.00017418

Descriptive Statistics for Northwest Brook- NF02ZN0002

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.95034014	35.7280702	35.3147826	0.46456522	12.1041667	6.01485632	1.67029851	0.91345445	4.43102201	0.55831809	0.21204403	2.20049708	7.04842105
Standard Error	0.65937616	0.883132	2.21661247	0.04209892	0.1838219	0.03342034	0.17269867	0.02258389	0.10305599	0.01811454	0.00512937	0.04265617	0.24248926
Median	7.95	33.85	30	0.37	12.3	8.02166667	1.2	0.88	4.215	0.51	0.2	2.115	6.54
Mode	0.1	32.1	20	0.28	12.7	6.12	1.1	0.88	4.2	0.5	0.16	1.95	6.75
Standard Deviation	6.52749098	9.42926946	23.7705205	0.45146065	1.87462294	0.35994803	1.4135995	0.23686188	1.06102637	0.18998686	0.05281007	0.45544326	2.58907675
Sample Variance	42.6081385	88.9111225	565.037645	0.20381672	3.51421117	0.12956259	1.99826355	0.05610355	1.12577696	0.03609501	0.0027889	0.20742856	6.70331843
Skewness	0.24642071	3.46284637	1.86242137	6.21108033	-0.0942819	-0.0751833	3.99728875	1.24911131	2.87815717	3.87554638	1.53694398	1.46485852	3.52292597
Range	21.3	77.2	157.5	4.2	6.8	2.03	9.5	1.68	8.08	1.58	0.27	2.82	20.81
Minimum	-0.5	20.9	2.5	0	8.5	4.91	0.3	0.2	2.62	0.3	0.14	1.3	3.59
Maximum	20.8	98.1	160	4.2	15.1	6.94	9.8	1.88	10.7	1.88	0.41	4.12	24.4
Count	98	114	115	115	104	116	67	110	106	110	106	114	114
Confidence Level(95.0%)	1.30867843	1.74964309	4.39109411	0.08339768	0.36456706	0.06619923	0.34480389	0.04476052	0.20434114	0.0359024	0.0101706	0.08450953	0.48041476

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.1777193	0.0042538	0.01934071	0.12493618	2.28697531	0.14441911	0.00011156	0.00267615	0.02767241	5.8609E-05	0.00016798	0.00018684
Standard Error	0.2179908	0.00024552	0.00222329	0.00527555	0.07482095	0.00702102	5.7646E-06	7.7054E-05	0.0007383	1.7541E-06	1.1921E-05	4.5841E-05
Median	3.45	0.0036	0.01	0.1165	2.17	0.1275	0.0001	0.0025	0.025	0.00005	0.0001	0.0001
Mode	2.9	0.0036	0.005	0.117	2.12	0.127	0.0001	0.0022	0.025	0.00005	0.0001	0.0001
Standard Deviation	2.32750487	0.00262141	0.02363393	0.05533046	0.77756209	0.07561873	4.9923E-05	0.0008299	0.00795178	1.8892E-05	0.00012728	0.00048945
Sample Variance	5.41727892	6.8718E-06	0.00055856	0.00306146	0.60460281	0.00571819	2.4923E-09	6.8873E-07	6.3231E-05	3.569E-10	1.62E-08	2.3958E-07
Skewness	1.8435383	3.36953365	2.15458125	3.5597249	0.01518539	2.85246351	1.3710535	3.04387918	2.71427298	3.10442075	3.03996787	9.72691935
Range	13.2	0.0205	0.1015	0.5	3.97	0.537	0.00025	0.0062	0.035	0.00011667	0.00095	0.0051
Minimum	0.8	0.0008	0.0025	0.015	0.01	0.049	0.00005	0.0017	0.025	0.00005	0.00005	0.0001
Maximum	14	0.0213	0.104	0.515	3.98	0.586	0.0003	0.0079	0.06	0.00016667	0.001	0.0052
Count	114	114	113	110	108	116	75	116	116	114	114	114
Confidence Level(95.0%)	0.43187893	0.00048641	0.00440517	0.01045597	0.1483239	0.01390729	1.1486E-05	0.00015263	0.00146244	3.4745E-06	2.3617E-05	9.0819E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00065047	0.11103386	0.00445949	0.00034962	0.01341278	6.0234E-05	0.00016249	0.00023643	0.0001059	0.00530751	0.00010029	0.00156883
Standard Error	8.9919E-05	0.00630279	0.00020973	1.4041E-05	0.00103526	3.0415E-06	1.4431E-05	2.1901E-05	6.3838E-06	0.00013256	6.1464E-06	6.9084E-05
Median	0.0004	0.0947	0.005	0.0003	0.0101	0.00005	0.0001	0.0001	0.0001	0.005	0.0001	0.0014
Mode	0.0003	0.104	0.005	0.0003	0.0053	0.00005	0.0001	0.0001	0.0001	0.0049	0.0001	0.0013
Standard Deviation	0.00096007	0.06729536	0.00208676	0.00014991	0.01105356	3.2475E-05	0.00015408	0.00023384	4.4228E-05	0.00141533	6.5625E-05	0.00095116
Sample Variance	9.2174E-07	0.00452867	4.3546E-06	2.2474E-08	0.00012218	1.0546E-09	2.3741E-08	5.468E-08	1.9561E-09	2.0032E-06	4.3067E-09	9.0471E-07
Skewness	4.18810289	3.72551664	1.32460438	2.1422289	2.70391459	4.84774383	4.12765057	2.92833058	1.09680193	2.92580112	2.40443689	1.93267869
Range	0.007	0.5458	0.0085	0.00115	0.0631	0.00025	0.0011	0.0015	0.00015	0.0117	0.00035	0.0063
Minimum	0.0001	0.0402	0.0025	0.00005	0.004	0.00005	0.0001	0.0001	0.00005	0.0027	0.00005	0.0001
Maximum	0.0071	0.586	0.011	0.0012	0.0671	0.0003	0.0012	0.0016	0.0002	0.0144	0.0004	0.0064
Count	114	114	99	114	114	114	114	114	48	114	114	114
Confidence Level(95.0%)	0.00017815	0.01248696	0.0004162	2.7817E-05	0.00205104	6.0259E-06	2.8591E-05	4.3389E-05	1.2843E-05	0.00026262	1.2177E-05	0.00017649

Descriptive Statistics for Rocky River- NF02ZK0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.96511628	43.7956004	71.3496894	0.6129329	11.1844595	6.25544549	4.30372807	1.74838889	5.08460648	0.86019279	0.30539352	1.77691398	8.10031926
Standard Error	0.68883824	0.75664459	3.12292626	0.03072289	0.28410955	0.03212172	0.22951339	0.03614528	0.08516638	0.01767079	0.00707389	0.04276021	0.18330997
Median	8.9	42.9	60	0.5	10.9	6.3	4.1	1.7	5.1	0.85	0.3	1.69	7.9
Mode	0	41	50	0.5	9.8	6.2	2.3	1.7	5.2	1	0.28	1.6	7.9
Standard Deviation	7.82369849	9.60074352	39.625492	0.38126105	1.72817091	0.40503943	2.00085137	0.44268747	1.02199654	0.21786017	0.08488668	0.53236034	2.27481688
Sample Variance	61.210258	92.1742761	1570.17961	0.14535999	2.9865747	0.16405694	4.00340621	0.1959722	1.04447692	0.04746306	0.00720575	0.28340753	5.17479184
Skewness	0.38442552	0.58085945	1.13973375	2.92867312	0.30030507	-0.6504132	1.06755397	0.24464747	-0.3681058	0.0841763	2.60671807	1.72098521	0.92925893
Range	26	63	215	2.65	7	2.38	8.9	2.93	7.3	1.23	0.66	3.4	17.1
Minimum	0	16	5	0.15	7.8	4.78	1.2	0.17	1.1	0.17	0.11	0.8	1.9
Maximum	26	79	220	2.8	14.8	7.16	10.1	3.1	8.4	1.4	0.77	4.2	19
Count	129	161	161	154	37	159	76	150	144	152	144	155	154
Confidence Level(95.0%)	1.36298314	1.49430048	6.16747981	0.06069586	0.57620011	0.0634433	0.45721423	0.07142357	0.16834763	0.03491395	0.0139829	0.08447221	0.36214548

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	7.87139108	0.00841064	0.01714873	0.13440981	1.71373813	0.12322581	0.00023851	0.00213978	0.03564516	9.6774E-05	0.0001129	0.00043118
Standard Error	1.7437E-10	0.3427693	0.00043906	0.00324381	0.00698873	0.07143192	0.01450493	6.7263E-06	0.00026119	0.00375845	2.1369E-05	2.0076E-05	6.6594E-05
Median	0.025	6.9	0.007	0.009	0.12	1.77	0.104	0.00025	0.0018	0.025	0.00005	0.00005	0.0003
Mode	0.025	5.5	0.006	0.005	0.05	2.4	0.104	0.00025	0.0019	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.5498E-09	3.86281389	0.00551895	0.04077405	0.08784703	0.73889757	0.08076002	6.2738E-05	0.00145425	0.02092614	0.00011898	0.00011178	0.00037078
Sample Variance	2.4019E-18	14.9213311	3.0459E-05	0.00166252	0.0077171	0.54596962	0.00652218	3.9361E-09	2.1148E-06	0.0004379	1.4156E-08	1.2495E-08	1.3748E-07
Skewness	1.01945984	2.05799985	3.69191506	8.49615173	1.96382214	0.45745005	1.98543528	-0.3467748	2.32860058	3.2714017	4.65139708	2.33246748	1.01117801
Range	0	29.75	0.044	0.4475	0.564	4	0.36	0.00045	0.00566667	0.105	0.00065	0.00045	0.0013
Minimum	0.025	0.25	0.001	0.0025	0.04	0.1	0.035	0.00005	0.00083333	0.025	0.00005	0.00005	0.0001
Maximum	0.025	30	0.045	0.45	0.604	4.1	0.395	0.0005	0.0065	0.13	0.0007	0.0005	0.0014
Count	79	127	158	158	158	107	31	87	31	31	31	31	31
Confidence Level(95.0%)	3.4714E-10	0.67833001	0.00086724	0.00640714	0.01380408	0.14162082	0.02962298	1.3371E-05	0.00053342	0.00767576	4.3642E-05	4.1001E-05	0.000136

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.0022828	0.3205828	0.0057	0.00078892	0.04167097	7.7419E-05	0.00022473	0.00034688	0.00837785	0.00022011	0.00152677
Standard Error	0.00065073	0.03971168	0.00045797	4.2054E-05	0.01228662	9.5148E-06	2.6548E-05	5.075E-05	0.00032042	2.8942E-05	0.00025072
Median	0.0007	0.281	0.005	0.0008	0.016	0.00005	0.0002	0.0003	0.008	0.0002	0.0011
Mode	0.0005	0.193	0.005	0.0007	0.016	0.00005	0.0001	0.0001	0.0076	0.0002	0.001
Standard Deviation	0.00362311	0.22110527	0.00204811	0.00023415	0.06840899	5.2976E-05	0.00014782	0.00028257	0.00178404	0.00016114	0.00139593
Sample Variance	1.3127E-05	0.04888754	4.1947E-06	5.4825E-08	0.00467979	2.8065E-09	2.1849E-08	7.9844E-08	3.1828E-06	2.5967E-08	1.9486E-06
Skewness	2.80084876	2.50551464	0.85439705	1.30383194	2.62071466	3.0102875	1.52465898	1.52497985	1.21900337	0.94972081	1.89410767
Range	0.0169	1.1108	0.0075	0.0012	0.2523	0.00025	0.0006	0.0011	0.0094	0.00054	0.0059
Minimum	0.0001	0.0694	0.0025	0.0004	0.0027	0.00005	0.0001	0.0001	0.0049	0.00005	0.0002
Maximum	0.017	1.18	0.01	0.0016	0.255	0.0003	0.0007	0.0012	0.0143	0.00059	0.0061
Count	31	31	20	31	31	31	31	31	31	31	31
Confidence Level(95.0%)	0.00132897	0.08110199	0.00095854	8.5886E-05	0.02509259	1.9432E-05	5.4219E-05	0.00010365	0.00065439	5.9108E-05	0.00051203

Descriptive Statistics for Northeast River- NF02ZK0005

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.88926554	45.8895582	40.1884921	0.46103175	11.6444633	6.23154762	2.28119048	1.54906863	5.47767857	0.67779373	0.19041667	2.12270833	9.471
Standard Error	0.93699514	0.76728968	2.30547466	0.02965006	0.25655515	0.03032491	0.09868582	0.02815488	0.11030196	0.01480297	0.0092137	0.04497886	0.21852661
Median	9.2	45.5	40	0.42	11.5	6.24666667	2.3	1.55	5.42	0.675	0.18	2.035	9.25
Mode	0.1	42.1	40	0.25	14.5	6.27	3	1.7	4.31	0.7	0.16	2	10.9
Standard Deviation	7.19719624	6.99034163	21.1300243	0.27174727	1.97063749	0.27793243	0.82566482	0.23217113	0.82542427	0.12206838	0.068949	0.40230318	1.95456143
Sample Variance	51.7996337	48.8648761	446.477925	0.07384658	3.88341211	0.07724644	0.68172239	0.05390343	0.68132522	0.01490069	0.00475396	0.16184785	3.82031038
Skewness	0.18103953	1.25662165	2.14375257	4.02887427	0.05511983	-0.2168975	0.2928239	0.48156132	1.4273082	2.16644834	5.27211347	2.82336122	1.50231267
Range	21.7	44.2	135	2.17	6.4	1.73	4	1.3	5.07	0.6	0.5	2.77	13.01
Minimum	0	32.7	5	0.13	8.5	5.29	0.8	1.1	4.03	0.5	0.14	1.63	5.69
Maximum	21.7	76.9	140	2.3	14.9	7.02	4.8	2.4	9.1	1.3	0.64	4.4	18.7
Count	59	83	84	84	59	84	70	68	56	68	56	80	80
Confidence Level(95.0%	1.87559815	1.52638437	4.58549761	0.05897279	0.51355054	0.06031505	0.19687277	0.0561974	0.22105001	0.02954685	0.01846468	0.08952826	0.43496671

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.39804878	0.00544032	0.01185208	0.15013979	1.55995821	0.11088885	9.5503E-05	0.0027004	0.03125	6.5476E-05	0.00014177	0.00017779
Standard Error	0.22594412	0.0003619	0.00149477	0.00447106	0.05180341	0.00616372	4.1003E-06	9.967E-05	0.00118823	2.9307E-06	1.4303E-05	1.0591E-05
Median	5	0.0047	0.0055	0.154	1.56	0.10066667	0.0001	0.00246667	0.025	0.00005	0.0001	0.0002
Mode	4.4	0.0031	0.005	0.142	1.25	0.112	0.0001	0.0023	0.025	0.00005	0.0001	0.0002
Standard Deviation	2.04601107	0.00329706	0.01336965	0.04023953	0.46334382	0.05649138	3.2545E-05	0.00091349	0.01089034	2.688E-05	0.00013031	9.6488E-05
Sample Variance	4.1861613	1.0871E-05	0.00017875	0.00161922	0.2146875	0.00319128	1.0592E-09	8.3447E-07	0.0001186	7.2148E-10	1.6981E-08	9.3096E-09
Skewness	2.60335297	2.33320319	3.48325025	0.37236117	-0.4041224	2.91506848	1.23854497	2.78977882	1.17580203	2.01161556	5.10686332	2.06123633
Range	12.8	0.0194	0.0875	0.275	2.5	0.405	0.00015	0.0055	0.025	0.00015	0.00105	0.00049
Minimum	2.8	0.0003	0.0025	0.033	0.01	0.027	0.00005	0.0015	0.025	0.00005	0.00005	0.0001
Maximum	15.6	0.0197	0.09	0.308	2.51	0.432	0.0002	0.007	0.05	0.0002	0.0011	0.00059
Count	82	83	80	81	80	84	63	84	84	84	83	83
Confidence Level(95.0%	0.4495583	0.00071993	0.00297527	0.0088977	0.1031122	0.01225938	8.1964E-06	0.00019824	0.00236335	5.829E-06	2.8454E-05	2.1068E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00131582	0.19672185	0.00524123	0.00041502	0.02524888	6.3855E-05	0.00017819	0.000279	9.3478E-05	0.007551	0.00014024	0.0016061
Standard Error	0.00032752	0.01436123	0.00047208	1.865E-05	0.00250122	2.4713E-06	1.1678E-05	3.0287E-05	8.4957E-08	0.00012702	1.1671E-05	0.00014208
Median	0.0005	0.162	0.005	0.0004	0.0203	0.00005	0.0001	0.0002	0.0001	0.0076	0.0001	0.00136667
Mode	0.0004	0.225	0.005	0.0005	0.0295	0.00005	0.0001	0.0001	0.0001	0.0082	0.0001	0.0009
Standard Deviation	0.00298383	0.13083701	0.0041155	0.00016991	0.02278723	2.2515E-05	0.00010639	0.00027593	4.0744E-05	0.00115717	0.00010633	0.0012942
Sample Variance	6.9032E-08	0.01711832	1.6937E-05	2.887E-08	0.00051926	5.0691E-10	1.1319E-08	7.6138E-08	1.6601E-09	1.339E-06	1.1308E-06	1.6749E-06
Skewness	4.43493971	3.92165856	3.92062479	0.25383827	5.8101627	1.01443245	1.70419068	2.24488741	1.35865528	1.01939277	2.96920191	4.36583672
Range	0.0169	0.9394	0.0275	0.00095	0.1908	0.00005	0.00049	0.0012	0.00015	0.0081	0.00065	0.0104
Minimum	0.0001	0.0606	0.0025	0.00005	0.0092	0.00005	0.0001	0.0001	0.00005	0.0048	0.00005	0.0001
Maximum	0.017	1	0.03	0.001	0.2	0.0001	0.00059	0.0013	0.0002	0.0129	0.0007	0.0105
Count	83	83	76	83	83	83	83	83	23	83	83	83
Confidence Level(95.0%	0.00065154	0.02856907	0.00094043	3.7101E-05	0.00497573	4.9162E-06	2.3231E-05	6.0251E-05	1.7619E-05	0.00025267	2.3218E-05	0.0002826

Descriptive Statistics for Pipers Hole River- NF02ZH0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.59090909	22.878607	35.8554726	0.56753281	10.6947368	6.41578283	4.05466667	1.80138211	2.12641026	0.37584533	0.19881823	1.23179133	2.91299479
Standard Error	0.68020939	0.46791951	1.38240913	0.03469394	0.31423105	0.02700202	0.1829954	0.03811312	0.05739199	0.00945252	0.00690489	0.03192374	0.11495964
Median	6	22.3666667	35	0.5	10	6.49	3.92	1.6	2	0.37	0.18	1.2	2.8
Mode	0	20	40	0.4	10	6.5	3	1.6	1.9	0.39	0.17	1.2	2
Standard Deviation	7.13409626	5.4165599	16.0025426	0.39098082	1.36970138	0.31022957	1.4753561	0.42269495	0.62078929	0.10568241	0.07468782	0.35405135	1.30061987
Sample Variance	50.8953294	29.3391212	256.081369	0.152866	1.87608187	0.09624239	2.17667562	0.17867102	0.38537934	0.01116877	0.00557827	0.12535236	1.69161205
Skewness	0.56815178	1.17021944	1.12374843	5.52576898	0.93434767	-1.0640261	0.50226015	-0.0550818	1.94288823	0.67900443	1.98557483	0.68153473	3.55318189
Range	24	31.5	100	3.8	4.2	2.1	6.16666667	2.63	3.8	0.62	0.43	1.98	9.83
Minimum	0	12.5	5	0.1	9.2	4.9	1.5	0.17	1.2	0.17	0.1	0.42	1.27
Maximum	24	44	105	3.9	13.4	7	7.66666667	2.8	5	0.79	0.53	2.4	11.1
Count	110	134	134	127	19	132	65	123	117	125	117	123	128
Confidence Level(95.0%)	1.34815209	0.92552606	2.73434993	0.06865824	0.66017544	0.0534164	0.36557501	0.0754488	0.113672	0.01870918	0.013676	0.06319628	0.22748437

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.0315942	4.81171617	0.0044414	0.02964529	0.14083969	2.08375969	0.08664286	0.00024762	0.00159286	0.04107143	8.9286E-05	0.0001	0.00067143
Standard Error	0.00141727	0.13738813	0.00054133	0.00298175	0.00714287	0.08812083	0.01295495	2.034E-05	0.00017556	0.00332236	1.0714E-05	1.2839E-05	9.6322E-05
Median	0.025	4.76666667	0.00333333	0.02	0.14	1.98	0.0725	0.00025	0.0014	0.05	0.0001	0.0001	0.00065
Mode	0.025	5.4	0.003	0.01	0.05	1.4	#N/A	0.00025	0.0014	0.05	0.0001	0.0001	0.0008
Standard Deviation	0.01177275	1.38073359	0.00619584	0.0341277	0.08175389	0.81719891	0.048473	0.00018642	0.00065687	0.01243113	4.0089E-05	4.8038E-05	0.0003604
Sample Variance	0.0001386	1.90642525	3.8388E-05	0.0011647	0.0066837	0.66781406	0.00234963	3.4753E-08	4.3148E-07	0.00015453	1.6071E-09	2.3077E-09	1.2989E-07
Skewness	1.31008833	0.36253604	9.29828385	3.2674794	2.92588454	0.35374867	0.47989915	7.09343965	1.28971364	-0.6703601	1.48173897	1.21430517	0.14389807
Range	0.035	9.45	0.0695	0.235	0.67	3.75	0.149	0.00175	0.0023	0.025	0.00015	0.00015	0.0012
Minimum	0.025	0.25	0.0005	0.005	0.05	0.05	0.02	0.00005	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	0.06	9.7	0.07	0.24	0.72	3.8	0.169	0.0018	0.0032	0.05	0.0002	0.0002	0.0013
Count	69	101	131	131	131	86	14	84	14	14	14	14	14
Confidence Level(95.0%)	0.00282812	0.27257416	0.00107096	0.00589903	0.0141313	0.17520791	0.02798747	4.0456E-05	0.00037927	0.00717752	2.3147E-05	2.7737E-05	0.00020809

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.00722143	0.23788571	0.00478571	0.00029643	0.02054286	8.2143E-05	0.00025	0.0004	0.00687857	0.00018571	0.00244286
Standard Error	0.00265972	0.04429156	0.00053121	3.7965E-05	0.00634431	6.6447E-06	5.4218E-05	9.0784E-05	0.00038747	3.0755E-05	0.00088502
Median	0.0014	0.191	0.005	0.00035	0.0114	0.0001	0.0002	0.0003	0.007	0.0002	0.0018
Mode	0.0012		0.005	0.0004	0.0114	0.0001	0.0002	0.0002	0.0084	0.0002	0.0023
Standard Deviation	0.00995174	0.16572382	0.0019876	0.00014205	0.02373824	2.4862E-05	0.00020286	0.00033968	0.00144978	0.00011507	0.00331145
Sample Variance	9.9037E-05	0.02746439	3.9505E-06	2.0179E-08	0.0005635	6.1813E-10	4.1154E-08	1.1538E-07	2.1016E-06	1.3242E-08	1.0966E-05
Skewness	1.57490227	1.82196474	1.11609984	-0.5264208	3.21350694	-0.6703601	2.87011339	2.17065056	-0.4776011	1.51176122	3.35788681
Range	0.031	0.5834	0.0075	0.00045	0.0922	0.00005	0.0008	0.0013	0.004	0.00045	0.0133
Minimum	0.0004	0.0976	0.0025	0.00005	0.0071	0.00005	0.0001	0.0001	0.0047	0.00005	0.0003
Maximum	0.0314	0.681	0.01	0.0005	0.0993	0.0001	0.0009	0.0014	0.0087	0.0005	0.0136
Count	14	14	14	14	14	14	14	14	14	14	14
Confidence Level(95.0%)	0.00574596	0.09568607	0.00114761	8.2018E-05	0.01370605	1.4355E-05	0.00011713	0.00019613	0.00083707	6.6441E-05	0.00191198

Descriptive Statistics for Rattle Brook- NF02ZG0025

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.89408602	29.83375	41.8333333	0.42648333	11.9219931	5.59236667	0.584375	0.91419973	3.24738333	0.43166857	0.1604	1.82273333	5.32943333
Standard Error	0.73908761	0.62767797	1.87300212	0.02013437	0.20834988	0.03239214	0.09754473	0.01678169	0.04570477	0.00763818	0.00293142	0.04472668	0.12506374
Median	5.6	29.5	40	0.39666667	12.3	5.595	0.5	0.905	3.215	0.42333333	0.16	1.8	5.075
Mode	0.1	28.1	40	0.33	13.1	5.5	0.4	0.93	2.7	0.46	0.15	1.64	4.14
Standard Deviation	7.1275028	6.27677971	18.7300212	0.20134368	2.05200831	0.32392143	0.39017891	0.16781688	0.45704771	0.0763818	0.0293142	0.44726664	1.25063737
Sample Variance	50.8012962	39.3979635	350.813692	0.04053928	4.21073812	0.10492509	0.15223958	0.0281625	0.20889261	0.00583418	0.00085932	0.20004745	1.56409384
Skewness	0.4321231	0.10318525	1.72718412	2.57419515	-0.210942	0.60075118	1.01198721	1.53937544	0.90359163	0.9757489	0.39767572	4.95385811	0.97517488
Range	23.5	51.1	115	1.46	7.7	1.97	1.45	1.12	2.53	0.40999	0.16	4.13	6.31
Minimum	0	0.5	5	0.13	7.7	4.9	0.05	0.58	2.22	0.28	0.09	1.18	3.17
Maximum	23.5	51.6	120	1.59	15.4	6.87	1.5	1.7	4.75	0.68999	0.25	5.31	9.48
Count	93	100	100	100	97	100	16	100	100	100	100	100	100
Confidence Level(95.0%	1.46789179	1.24544949	3.71644321	0.03995096	0.41357155	0.06427305	0.20791179	0.03329852	0.0906882	0.01515581	0.00581657	0.08874742	0.24815363

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.23758333	0.00381308	0.02234157	0.15357535	0.91891914	0.14249907	7.1552E-05	0.00237808	0.025	5.25E-05	8.6224E-05	0.00021588
Standard Error	0.21118304	0.00025808	0.00328101	0.00512557	0.03874826	0.00359196	4.4532E-06	7.364E-05	1.6952E-10	1.0952E-06	5.0711E-06	4.0016E-05
Median	4.8	0.00325	0.01	0.147	1	0.143	0.00005	0.0023	0.025	0.00005	0.00005	0.0001
Mode	4.8	0.0032	0.005	0.151	1.14	0.148	0.00005	0.0023	0.025	0.00005	0.00005	0.0001
Standard Deviation	2.11183041	0.0025808	0.03281012	0.04969421	0.36963479	0.03591963	3.3914E-05	0.0007364	1.6952E-09	1.0952E-05	5.0202E-05	0.00039614
Sample Variance	4.45982769	6.6605E-06	0.0010765	0.00246951	0.13662988	0.00129022	1.1502E-09	5.4229E-07	2.8737E-18	1.1995E-10	2.5202E-09	1.5693E-07
Skewness	2.66362172	2.77235912	5.26652305	2.43611397	-0.413917	0.8725802	2.00561736	3.41119246	1.0152933	4.19263685	1.7732161	6.10657061
Range	13.4	0.0156	0.2775	0.332	1.49	0.238	0.00015	0.00565	0	0.00005	0.00025	0.0032
Minimum	2.2	0.0002	0.0025	0.068	0.04	0.041	0.00005	0.0015	0.025	0.00005	0.00005	0.0001
Maximum	15.6	0.0158	0.28	0.4	1.53	0.279	0.0002	0.00715	0.025	0.0001	0.0003	0.0033
Count	100	100	100	94	91	100	58	100	100	100	98	98
Confidence Level(95.0%	0.41903304	0.00051209	0.00651024	0.01017835	0.07698011	0.00712724	8.9173E-06	0.00014612	3.3636E-10	2.1731E-06	1.0065E-05	7.9421E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00082469	0.11189721	0.00490244	0.00019541	0.01347308	5.7993E-05	0.00017007	0.00030354	0.00011354	0.00479923	0.00015102	0.00110655
Standard Error	7.3495E-05	0.00540565	0.00033787	9.1187E-06	0.00068944	2.309E-06	2.78E-05	3.1684E-05	8.3872E-06	8.8203E-05	8.8058E-06	4.995E-05
Median	0.0004	0.095645	0.005	0.0002	0.01245	0.00005	0.0001	0.0001	0.0001	0.0047	0.0001	0.0011
Mode	0.0003	0.105	0.005	0.0002	0.0128	0.00005	0.0001	0.0001	0.0001	0.0049	0.0001	0.0014
Standard Deviation	0.00072757	0.05351322	0.00305953	9.0271E-05	0.00682514	2.2858E-05	0.00027322	0.00031366	5.8108E-05	0.00087317	8.7173E-05	0.00049448
Sample Variance	5.2935E-07	0.00286366	9.3607E-06	8.1488E-09	4.6583E-05	5.2251E-10	7.465E-08	9.838E-08	3.3766E-09	7.6242E-07	7.5992E-09	2.4451E-07
Skewness	3.51144322	2.39098915	2.98093209	0.67195557	0.87114433	3.58033995	7.58816985	1.8252697	1.13819703	1.57625858	1.16491873	0.45732158
Range	0.0046	0.2978	0.0175	0.0004	0.0324	0.00015	0.0025	0.0013	0.00025	0.0053	0.00035	0.0024
Minimum	0.0001	0.0392	0.0025	0.00005	0.0035	0.00005	0.0001	0.0001	0.00005	0.0032	0.00005	0.0001
Maximum	0.0047	0.337	0.02	0.00045	0.0359	0.0002	0.0026	0.0014	0.0003	0.0085	0.0004	0.0025
Count	98	98	82	98	98	98	98	98	48	98	98	98
Confidence Level(95.0%	0.00014587	0.01072872	0.00067225	1.8098E-05	0.00136835	4.5828E-06	5.4778E-05	6.2884E-05	1.6873E-05	0.00017508	1.7477E-05	9.9138E-05

Descriptive Statistics for Tides Brook- NF02ZG0024

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.36116505	46.43538251	41.0483607	0.61674855	11.6166667	6.09077869	1.883716475	1.431752137	5.599159292	0.705555214	0.321253687	2.165583333	9.71911111
Standard Error	0.67801155	0.504967033	1.56637262	0.04666164	0.16092863	0.02677515	0.082957352	0.017748879	0.059696066	0.007748572	0.004385155	0.020709526	0.1291802
Median	8	45.35	40	0.5	11.75	6.075	1.7	1.43	5.47	0.68999	0.32	2.17	9.385
Mode	0.9	43.1	40	0.5	13.7	6.22	1.6	1.43	5.58	0.66	0.29	2.18	10.5
Standard Deviation	6.68106571	5.577543183	17.301151	0.51539467	1.65686163	0.29574121	0.773774671	0.191983477	0.634577886	0.083813623	0.046614837	0.226861493	1.41509824
Sample Variance	47.3490653	31.10898796	299.329827	0.26563166	2.74519048	0.08746286	0.598727242	0.036857655	0.402689093	0.007024723	0.002172943	0.051466137	2.00250303
Skewness	0.33703188	0.091539766	1.65999792	4.39107821	-0.0984257	0.15507186	1.044909552	-0.641677452	0.502081641	0.730795291	1.973928058	-0.397828278	1.23782797
Range	21	35.6	115	4.03	5.8	2.06	4.3	1.28	3.706666667	0.55	0.37	1.396666667	9.93
Minimum	0.1	25.9	5	0.17	8.7	5.1	0.5	0.7	3.79	0.45	0.23	1.28	6.27
Maximum	21.1	61.5	120	4.2	14.5	7.16	4.8	1.98	7.496666667	1	0.6	2.676666667	16.2
Count	103	122	122	122	106	122	87	117	113	117	113	120	120
Confidence Level(95.0%	1.34483202	0.999716225	3.1010502	0.0923791	0.31909197	0.05300852	0.164913625	0.035153869	0.118280029	0.015347014	0.008688617	0.041006877	0.25578937

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.89057851	0.004837022	0.02581944	0.16101282	1.82356932	0.11456273	9.38272E-05	0.011788989	0.025204918	5.32787E-05	7.48611E-05	0.000144639
Standard Error	0.09908944	0.000279654	0.00390477	0.00557354	0.03694493	0.00368209	5.2984E-06	9.96896E-05	0.000204918	1.12516E-06	4.12324E-06	9.99878E-06
Median	4.7	0.00435	0.02	0.155	1.77	0.11	0.0001	0.0118	0.025	0.00005	0.00005	0.0001
Mode	4.3	0.0043	0.005	0.144	1.68	0.111	0.0001	0.0127	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.08998383	0.00308888	0.04277459	0.06028704	0.39272999	0.04067002	4.76856E-05	0.001101108	0.002263394	1.24278E-05	4.51878E-05	0.000109531
Sample Variance	1.18806476	9.54118E-06	0.00182967	0.00363453	0.15423685	0.00165405	2.27392E-09	1.21244E-06	5.12295E-06	1.54451E-10	2.04013E-09	1.19971E-08
Skewness	1.32716666	4.624096425	7.83432292	4.90845316	1.26545363	4.89266446	2.380223488	-0.349929256	11.04536102	3.553855788	3.883731114	3.373644222
Range	6.5	0.0276	0.435	0.614	2.67	0.402	0.00025	0.0066	0.025	0.00005	0.00035	0.0007
Minimum	2.7	0.0004	0.005	0.045	1.01	0.05	0.00005	0.008	0.025	0.00005	0.00005	0.0001
Maximum	9.2	0.028	0.44	0.659	3.68	0.452	0.0003	0.0146	0.05	0.0001	0.0004	0.0008
Count	121	122	120	117	113	122	81	122	122	122	120	120
Confidence Level(95.0%	0.19619006	0.000553649	0.00773182	0.01103909	0.0732016	0.00728967	1.05442E-05	0.000197362	0.00040569	2.22756E-06	8.16441E-06	1.97986E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00057178	0.192796583	0.00469712	0.00111853	0.02634028	7.0417E-05	0.000135556	0.000281389	0.000104514	0.011802139	0.000152556	0.001330028
Standard Error	9.3581E-05	0.010697893	0.00029869	2.2817E-05	0.00177388	3.7655E-06	7.8673E-06	3.27888E-05	6.68989E-06	0.000143881	1.13514E-05	5.36685E-05
Median	0.0003	0.1585	0.005	0.0011	0.02201667	0.00005	0.0001	0.0001	0.0001	0.01185	0.0001	0.0013
Mode	0.0001	0.117	0.005	0.0012	0.0314	0.00005	0.0001	0.0001	0.0001	0.0122	0.0001	0.0013
Standard Deviation	0.00102513	0.117189546	0.0030461	0.00024995	0.01943189	4.1249E-05	8.61819E-05	0.000359184	4.63489E-05	0.001578137	0.000124348	0.000587909
Sample Variance	1.0509E-06	0.01373339	9.2787E-06	6.2474E-08	0.0003776	1.7015E-09	7.42733E-09	1.29013E-07	2.14822E-09	2.48421E-06	1.54625E-08	3.45637E-07
Skewness	5.36599994	3.675223615	4.61111822	0.33477566	3.16909947	3.4947228	3.512155007	3.467350873	1.014478098	-0.65530342	4.379701512	2.831811481
Range	0.00859	0.947	0.0255	0.00131	0.1397	0.00025	0.0006	0.0024	0.00015	0.0112	0.00105	0.005
Minimum	0.00001	0.073	0.0025	0.00059	0.0053	0.00005	0.0001	0.0001	0.00005	0.0055	0.00005	0.0002
Maximum	0.0086	1.02	0.028	0.0019	0.145	0.0003	0.0007	0.0025	0.0002	0.0167	0.0011	0.0052
Count	120	120	104	120	120	120	120	120	48	120	120	120
Confidence Level(95.0%	0.0001853	0.021182869	0.00059239	4.518E-05	0.00351246	7.4561E-06	1.5578E-05	6.49251E-05	1.34583E-05	0.000284898	2.24769E-05	0.000106269

Descriptive Statistics for Garnish River- NF02ZG0016

	TEMP	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.37470588	43.3523102	51.350495	0.55493127	11.19	6.24034653	3.3172549	1.94677193	4.99508961	0.66819979	0.26905018	2.20570707	8.33976431
Standard Error	0.76683698	1.16776415	2.3552039	0.08287701	0.33215943	0.02932955	0.18557838	0.05216553	0.1423537	0.02384544	0.01108109	0.06217089	0.32452299
Median	5	39.5	45	0.4	10.75	6.23	3.3	2	4.8	0.62	0.24	2.1	7.54333333
Mode	0	38	60	0.4	10.2	6.3	2.7	2	4.1	0.51	0.21	2.3	7.6
Standard Deviation	7.06988762	11.7358844	23.6695062	0.81624394	1.81931211	0.29475831	1.32529472	0.50844667	1.3728094	0.23241664	0.1068622	0.61859251	3.22896294
Sample Variance	49.9833109	137.730983	560.245525	0.66625416	3.30989655	0.08688246	1.75640609	0.25851801	1.88460564	0.0540175	0.01141953	0.38265669	10.4262016
Skewness	0.52269254	1.99979946	0.71202847	8.77784706	0.27382728	-0.1428321	0.62892666	0.46125351	2.01496475	1.95370253	2.4360486	1.78385857	2.15742872
Range	22	64	110	8.06	5.8	1.6	5.9	2.81	7.9	1.22	0.61	4	18.8
Minimum	0	28	10	0.14	8.7	5.4	1.2	0.89	3	0.38	0.14	1.1	3.5
Maximum	22	92	120	8.2	14.3	7	7.1	3.7	10.9	1.6	0.75	5.1	22.3
Count	85	101	101	97	30	101	51	95	93	95	93	99	99
Confidence Level(95.0%)	1.52493981	2.31681107	4.67265798	0.1645097	0.67934268	0.05818899	0.3727453	0.10357583	0.28272674	0.04734566	0.02200801	0.1233761	0.64400529

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	6.58571429	0.00701633	0.02347152	0.14260438	1.7210101	0.17460952	0.00022708	0.00474476	0.02785714	6.5714E-05	9.0476E-05	0.00031019
Standard Error	0	0.25330922	0.00110989	0.00405623	0.00805362	0.09349655	0.01141531	9.0505E-06	0.00016901	0.00136409	1.0202E-05	8.89E-06	5.6595E-05
Median	0.025	6.1	0.0052	0.01	0.1345	1.7	0.168	0.00025	0.0048	0.025	0.00005	0.00005	0.0002
Mode	0.025	5.2	0.005	0.005	0.05	1.7	0.153	0.00025	0.0055	0.025	0.00005	0.00005	0.0001
Standard Deviation	0	2.32161738	0.01109892	0.04076466	0.08013249	0.7595896	0.06753389	6.2704E-05	0.00099987	0.00807007	6.0358E-05	5.2594E-05	0.00033482
Sample Variance	0	5.38990725	0.00012319	0.00166176	0.00642122	0.57694597	0.00456083	3.9317E-09	9.9973E-07	6.5126E-05	3.6429E-09	2.7661E-09	1.1211E-07
Skewness	-1.0383824	0.6648874	8.36416707	6.04390209	1.31502884	0.22273675	-0.2553007	-2.293515	0.66021911	2.53461769	5.30622851	1.18820135	2.60189928
Range	0	9.3	0.109	0.3575	0.423	2.76666667	0.26033333	0.00025	0.005	0.025	0.00035	0.00015	0.0016
Minimum	0.025	3.1	0.001	0.0025	0.047	0.50333333	0.034	0.00005	0.003	0.025	0.00005	0.00005	0.0001
Maximum	0.025	12.4	0.11	0.36	0.47	3.27	0.29433333	0.0003	0.008	0.05	0.0004	0.0002	0.0017
Count	41	84	100	101	99	66	35	48	35	35	35	35	35
Confidence Level(95.0%)	0	0.50382199	0.00220227	0.00804746	0.01598214	0.1867254	0.02319869	1.8207E-05	0.00034347	0.00277216	2.0733E-05	1.8067E-05	0.00011502

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.00425457	0.18263429	0.0065	0.00041371	0.02302952	7.2857E-05	0.00014095	0.00035305	0.00885781	0.00022048	0.0014361
Standard Error	0.00137816	0.01383851	0.00110813	3.5399E-05	0.00260055	1.2186E-05	1.192E-05	5.6559E-05	0.00039224	2.138E-05	0.0001712
Median	0.0011	0.181	0.005	0.00033333	0.0187	0.00005	0.0001	0.0002	0.0085	0.0002	0.0012
Mode	0.0008	#N/A	0.005	0.0003	0.0187	0.00005	0.0001	0.0001	0.0083	0.0002	0.0011
Standard Deviation	0.0081533	0.08186971	0.00456892	0.00020942	0.01538504	7.2094E-05	7.0519E-05	0.00033461	0.00232054	0.00012648	0.00101282
Sample Variance	6.6476E-05	0.00670265	2.0875E-05	4.3858E-08	0.0002367	5.1975E-09	4.9729E-09	1.1196E-07	5.3849E-06	1.5998E-08	1.0258E-06
Skewness	2.81703902	0.58570317	3.32866282	1.45340905	1.57744095	3.86818509	1.44048824	1.39829705	1.2214026	0.13295115	2.5871334
Range	0.0317	0.3281	0.0205	0.0009	0.0689	0.00035	0.0002	0.0011	0.0124	0.00035	0.0055
Minimum	0.0001	0.0719	0.0025	0.0002	0.0045	0.00005	0.0001	0.0001	0.0047	0.00005	0.0002
Maximum	0.0318	0.4	0.023	0.0011	0.0734	0.0004	0.0003	0.0012	0.0171	0.0004	0.0057
Count	35	35	17	35	35	35	35	35	35	35	35
Confidence Level(95.0%)	0.00280075	0.02812321	0.00234912	7.1939E-05	0.00528494	2.4765E-05	2.4224E-05	0.00011494	0.00079713	4.3449E-05	0.00034791

Descriptive Statistics for Grand Bank Brook- NF02ZG0026

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	8.59333333	57.4208835	39.3172691	0.55168671	11.6768288	6.45923695	4.84210526	2.81429719	6.22851406	0.79871474	0.23831325	2.34114458	11.1726908
Standard Error	0.88104587	1.42263807	2.53071316	0.05278987	0.25143594	0.04104833	0.30733297	0.10648896	0.13705763	0.02169477	0.00653119	0.05770812	0.35550351
Median	7	55.1	40	0.46666667	12	6.43	3.95	2.61	5.94	0.75	0.23666667	2.34	11
Mode	0.1	55.1	50	0.35	14.2	6.62	3.3	3.42	5.8	0.72	0.25	1.95	11.4
Standard Deviation	7.3713586	12.9608496	23.0558944	0.48093864	2.16293373	0.37396807	2.67926672	0.97016057	1.24665448	0.19764873	0.05950194	0.52574601	3.23879111
Sample Variance	54.3369275	167.983624	531.574265	0.23130198	4.67828232	0.13985212	7.17847018	0.94121153	1.55913801	0.03906502	0.00354048	0.27640887	10.4897679
Skewness	0.37248829	0.75657273	0.90964124	6.98296156	-0.2356434	1.66327159	0.90082178	0.8373261	1.03462029	1.20870023	1.13820115	-0.6819315	1.1197825
Range	22.1	60	95	4.3	7.4	2.73	11.4	4.49	6.15666667	1	0.4	3.475	15.42
Minimum	0.1	34.4	5	0.2	7.6	5.7	1	1.23	4.24333333	0.5	0.11	0.005	5.98
Maximum	22.2	94.4	100	4.5	15	8.43	12.4	5.72	10.4	1.5	0.51	3.48	21.4
Count	70	83	83	83	74	83	76	83	83	83	83	83	83
Confidence Level(95.0%	1.75763787	2.83008176	5.03439726	0.10501593	0.50111144	0.08165824	0.61223882	0.21184057	0.27265144	0.04315782	0.01299262	0.1147999	0.70721009

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.62512195	0.00391504	0.03431727	0.17444872	3.14200803	0.09133297	8.7671E-05	0.00299076	0.0253012	6.2651E-05	7.7778E-05	0.00016996
Standard Error	0.25576591	0.00026759	0.00351696	0.00542666	0.08799034	0.00567436	5.4112E-06	0.00012082	0.0003012	5.3419E-06	4.3921E-06	3.8211E-05
Median	4.2	0.00345	0.02	0.1695	3.06	0.083	0.0001	0.0027	0.025	0.00005	0.00005	0.0001
Mode	5.1	0.0026	0.005	0.133	2.56	0.038	0.00005	0.0026	0.025	0.00005	0.00005	0.0001
Standard Deviation	2.31605882	0.00242312	0.03204104	0.04792698	0.8016301	0.0516959	4.6234E-05	0.00110072	0.00274411	4.8667E-05	3.9528E-05	0.0003439
Sample Variance	5.36412845	5.8715E-06	0.00102663	0.002297	0.64261082	0.00267247	2.1376E-09	1.2116E-06	7.5301E-08	2.3685E-09	1.5625E-09	1.1827E-07
Skewness	1.00151624	1.73332579	1.07495027	0.61645725	0.43884463	2.12244902	1.38414652	5.97407262	9.11043358	5.64665494	1.75806626	6.00595315
Range	12.6	0.013	0.125	0.348	3.45	0.34	0.00015	0.0094	0.025	0.00035	0.00015	0.003
Minimum	0.4	0.0002	0.005	0.021	1.72	0.022	0.00005	0.0021	0.025	0.00005	0.00005	0.0001
Maximum	13	0.0132	0.13	0.369	5.17	0.362	0.0002	0.0115	0.05	0.0004	0.0002	0.0031
Count	62	82	83	76	83	83	73	83	83	83	81	81
Confidence Level(95.0%	0.50869434	0.00053242	0.00699636	0.01080586	0.1750409	0.01128812	1.0787E-05	0.00024035	0.00059919	1.0627E-05	8.7405E-06	7.6042E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0007635	0.21695502	0.0042337	0.00083786	0.03076379	5.4938E-05	0.00016272	0.00021611	0.00010851	0.01544774	0.00016407	0.00077021
Standard Error	0.00026293	0.01165554	0.00027409	5.1175E-05	0.00156854	1.6678E-06	1.6904E-05	2.5479E-05	7.8018E-06	0.00063516	1.0705E-05	6.4127E-05
Median	0.0003	0.212	0.0025	0.0007	0.02786667	0.00005	0.0001	0.0001	0.0001	0.0142	0.0001	0.0006
Mode	0.0003	0.104	0.0025	0.0005	0.0343	0.00005	0.0001	0.0001	0.0001	0.0105	0.0001	0.0005
Standard Deviation	0.00236635	0.10489983	0.00248203	0.00046058	0.01411687	1.501E-05	0.00015213	0.00022931	5.3486E-05	0.00571643	9.6343E-05	0.00057714
Sample Variance	5.5996E-06	0.01100397	6.1605E-06	2.1213E-07	0.00019929	2.2531E-10	2.3145E-08	5.2585E-08	2.8608E-09	3.2678E-05	9.2619E-09	3.3309E-07
Skewness	6.10034741	0.54105844	1.97631686	1.31089705	1.26767782	2.74073689	3.20283798	4.13947496	1.53747788	1.06279249	1.84677341	1.73955501
Range	0.016	0.4534	0.0115	0.0022	0.0665	0.00005	0.0009	0.0016	0.00025	0.0266	0.00054	0.0029
Minimum	0.0001	0.0626	0.0025	0.0001	0.012	0.00005	0.0001	0.0001	0.00005	0.0063	0.00005	0.0001
Maximum	0.0161	0.516	0.014	0.0023	0.0785	0.0001	0.001	0.0017	0.0003	0.0329	0.00059	0.003
Count	81	81	82	81	81	81	81	81	47	81	81	81
Confidence Level(95.0%	0.00052324	0.02319528	0.00054536	0.00010184	0.0031215	3.319E-06	3.364E-05	5.0705E-05	1.5704E-05	0.00126401	2.1303E-05	0.00012762

Descriptive Statistics for South West Brook- NF02YM0004

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.2106383	69.1425926	110.605556	0.73347222	12.1214583	6.46949074	7.04489796	4.14830189	7.33903846	1.09594321	0.35990385	1.66116667	12.4928704
Standard Error	0.7435415	3.93679956	3.62936583	0.10877382	0.22750969	0.03465512	0.34396948	0.14104586	0.53949914	0.02960017	0.00974037	0.06522122	1.00167352
Median	2.6	61.6	100	0.445	12.93	6.445	6.5	4.075	6.26	1.1	0.35	1.535	10.2
Mode	0.1	53.7	100	0.3	13.1	6.42	6.5	3.4	7.36	1.1	0.31	1.38	11.4
Standard Deviation	7.20890232	40.9124212	37.7174761	1.13041066	2.22913057	0.36014661	3.40512417	1.45215601	5.50183333	0.30475239	0.09933268	0.67779882	10.4096966
Sample Variance	51.9682727	1673.82621	1422.60801	1.27782825	4.96902311	0.12970558	11.5948706	2.10875709	30.2701699	0.09287402	0.00986698	0.45941124	108.361783
Skewness	0.77193302	4.28473018	0.14880663	5.68001793	-0.7448945	0.02716723	0.4744727	1.35309827	5.82999424	0.90129513	0.6866977	1.85054036	4.9419602
Range	22.7	343.8	205	9.4	12.1	1.65	15.2	10.3	50.67	2.06	0.52	4.5	89.5
Minimum	0	23.2	5	0.1	4.3	5.65	1.1	1.4	2.13	0.44	0.16	0.69	2.7
Maximum	22.7	367	210	9.5	16.4	7.3	16.3	11.7	52.8	2.5	0.68	5.19	92.2
Count	94	108	108	108	96	108	98	106	104	106	104	108	108
Confidence Level(95.0%)	1.47652459	7.80425112	7.19479921	0.21563155	0.45166351	0.06869979	0.68268383	0.27966809	1.06996833	0.05869171	0.01931771	0.12929355	1.98570224

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	13.6201835	0.0183183	0.08541204	0.41558804	3.25438776	0.28406422	0.00021016	0.00521679	0.00587156	5.1376E-05	0.00020991	0.00084368
Standard Error	0.32260719	0.00831527	0.00678522	0.01304617	0.16479035	0.00868707	2.7259E-05	0.00013801	0.00094857	7.8713E-07	1.4767E-05	3.7554E-05
Median	13.8	0.008945	0.072	0.4255	3.065	0.294	0.0002	0.0051	0.0025	0.00005	0.0002	0.00075
Mode	15.1	0.0085	0.005	0.318	2.57	0.33	0.0002	0.0051	0.0025	0.00005	0.0002	0.0007
Standard Deviation	3.36811794	0.08561096	0.07051406	0.13175986	1.63134128	0.09069569	0.00021807	0.00144085	0.00990333	8.2179E-06	0.00015204	0.00038664
Sample Variance	11.3442185	0.00732924	0.00497223	0.01736066	2.66127436	0.00822571	4.7554E-08	2.0761E-06	9.8076E-05	6.7533E-11	2.3115E-08	1.4949E-07
Skewness	-0.4647869	10.2449649	0.51631554	0.07606431	0.243959	-0.8309364	6.34745561	1.12027965	3.14749089	5.8568623	2.47384379	2.61094249
Range	21	0.8875	0.2495	0.74	5.55	0.498	0.00175	0.0074	0.0475	0.00005	0.00095	0.0025
Minimum	1	0.0025	0.0025	0.109	0.67	0.027	0.00005	0.003	0.0025	0.00005	0.00005	0.0002
Maximum	22	0.89	0.252	0.849	6.22	0.525	0.0018	0.0104	0.05	0.0001	0.001	0.0027
Count	109	106	108	102	98	109	64	109	109	109	106	106
Confidence Level(95.0%)	0.6394626	0.01648766	0.01345091	0.02588009	0.32706305	0.01721926	5.4472E-05	0.00027356	0.00188022	1.5602E-06	2.9281E-05	7.4462E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00173142	0.29917925	0.00526966	0.00030619	0.02808755	0.00012132	0.00101321	0.00034613	0.00011863	0.01506406	0.00038245	0.00128934
Standard Error	0.00019342	0.01118253	0.00038758	1.3299E-05	0.0028068	8.0286E-06	2.8439E-05	3.467E-05	6.2561E-06	0.00042922	1.3944E-05	7.1653E-05
Median	0.0011	0.3145	0.005	0.0003	0.0187	0.0001	0.001	0.0002	0.0001	0.01495	0.0004	0.0012
Mode	0.001	0.417	0.005	0.0003	0.0085	0.0001	0.0011	0.0001	0.0001	0.0139	0.0004	0.0009
Standard Deviation	0.00199142	0.11513116	0.00365645	0.00013628	0.02889778	8.2659E-05	0.00029279	0.00035695	4.4677E-05	0.00441908	0.00014356	0.00073771
Sample Variance	3.9657E-06	0.01325518	1.337E-05	1.8572E-08	0.00083508	6.8325E-09	8.5729E-08	1.2741E-07	1.9961E-09	1.9528E-05	2.0609E-08	5.4422E-07
Skewness	3.2475894	-0.2813785	3.65946686	0.87449694	3.51174026	4.04120172	0.85584215	1.61277193	1.10129543	0.66619946	1.02246195	1.23148577
Range	0.011	0.6036	0.0255	0.00065	0.2102	0.00054	0.0019	0.0013	0.00015	0.0291	0.0008	0.0045
Minimum	0.0001	0.0184	0.0025	0.00005	0.0058	0.00005	0.0001	0.0001	0.00005	0.0057	0.0001	0.0001
Maximum	0.0111	0.622	0.028	0.0007	0.216	0.00059	0.002	0.0014	0.0002	0.0348	0.0009	0.0046
Count	106	106	89	105	106	106	106	106	51	106	106	106
Confidence Level(95.0%)	0.00038352	0.0221729	0.00077024	2.6373E-05	0.00556537	1.5919E-05	5.6389E-05	6.8745E-05	1.2566E-05	0.00085106	2.7648E-05	0.00014207

Descriptive Statistics for Indian Brook- NF02YM0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.8106383	41.7166575	43.1512098	0.64191036	11.944	6.89084589	10.6300655	3.51984272	2.71365076	1.33262657	0.45618279	1.53558825	4.37503263
Standard Error	0.68984938	0.96962633	1.86736126	0.06881153	0.41077488	0.02376213	0.52050672	0.097202	0.0769307	0.02892009	0.20726266	0.03991956	0.14572217
Median	2.5	41.5	44.165	0.5	12.2	6.9	11.1	3.6	2.7	1.39	0.24	1.5	4.2
Mode	0	36	30	0.5	12	7	11.6	3.6	2.8	1.4	0.23	1.6	4.9
Standard Deviation	6.68833792	10.0766524	19.4061875	0.70174271	2.05387439	0.24464615	3.71716147	1.00075585	0.78830508	0.30054642	2.12381031	0.40316784	1.47172181
Sample Variance	44.7338641	101.538924	376.600113	0.49244283	4.2184	0.05985174	13.8172894	1.00151226	0.62142489	0.09032815	4.51057023	0.16254431	2.16596509
Skewness	0.94658605	0.10028035	1.03846892	4.16825598	-0.7707322	-0.165013	-0.3170229	-0.0812878	3.16097482	-0.3169647	10.2303417	0.71915544	2.37610429
Range	22	70.7	135	4.5	10.4	1.1	17.9	6.19	7.54	2.4	21.95	2.85	12
Minimum	0	5.3	5	0.2	6	6.3	0.8	0.11	0.36	0.1	0.05	0.25	0.8
Maximum	22	76	140	4.7	16.4	7.4	18.7	6.3	7.9	2.5	22	3.1	12.8
Count	94	108	108	104	25	106	51	106	105	108	105	102	102
Confidence Level(95.0%)	1.36990279	1.92217238	3.70182834	0.13647132	0.8477975	0.04711596	1.04546894	0.19273375	0.15255626	0.05733075	0.41100911	0.07918967	0.28907356

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	5.68734177	0.00397305	0.05681509	0.15288679	4.64692308	0.105	0.00024921	0.0051	0.05	0.0001	0.0001	0.0005
Standard Error	1.6594E-10	0.17337943	0.00041276	0.00361958	0.00700374	0.14366493	0	7.9365E-07	0	0	0	0	0
Median	0.025	5.9	0.003	0.05	0.15	4.64	0.105	0.00025	0.0051	0.05	0.0001	0.0001	0.0005
Mode	0.025	5.7	0.002	0.04	0.16	4.4		0.00025					
Standard Deviation	1.3275E-09	1.54103005	0.00422955	0.03726585	0.0721079	1.15826368		6.2994E-06					
Sample Variance	1.7623E-18	2.37477361	1.7889E-05	0.00138874	0.00519956	1.34157476		3.9683E-11					
Skewness	1.0241618	-0.601522	2.4017872	0.50801194	1.43336361	-1.7567247		-7.9372539					
Range	0	8.65	0.0255	0.175	0.475	7.15	0	0.00005	0	0	0	0	0
Minimum	0.025	0.25	0.0005	0.005	0.015	0.05	0.105	0.0002	0.0051	0.05	0.0001	0.0001	0.0005
Maximum	0.025	8.9	0.026	0.18	0.49	7.2	0.105	0.00025	0.0051	0.05	0.0001	0.0001	0.0005
Count	64	79	105	106	106	65	1	63	1	1	1	1	1
Confidence Level(95.0%)	3.316E-10	0.345172	0.00081852	0.00717696	0.01388713	0.28700343		1.5865E-06					

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0009	0.159	0.005	0.0001	0.0124	0.0001	0.0015	0.0004		0.0147	0.0002	0.0026
Standard Error	0	0	0	0	0	0	0	0		0	0	0
Median	0.0009	0.159	0.005	0.0001	0.0124	0.0001	0.0015	0.0004		0.0147	0.0002	0.0026
Mode												
Standard Deviation												
Sample Variance												
Skewness												
Range	0	0	0	0	0	0	0	0		0	0	0
Minimum	0.0009	0.159	0.005	0.0001	0.0124	0.0001	0.0015	0.0004		0.0147	0.0002	0.0026
Maximum	0.0009	0.159	0.005	0.0001	0.0124	0.0001	0.0015	0.0004		0.0147	0.0002	0.0026
Count	1	1	1	1	1	1	1	1		1	1	1
Confidence Level(95.0%)												

Descriptive Statistics for Exploits River (b/l Millertown Dam)- NF02YO0107

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.49797297	24.5860951	27.5921569	0.54513565	11.8382192	6.61645012	4.36197183	2.44825329	1.41182795	0.41708989	0.17301065	1.94068624	1.83909788
Standard Error	0.6875435	0.2379268	0.75944506	0.1301647	0.24037241	0.01920723	0.06741795	0.02243816	0.01495095	0.00321207	0.00513906	0.03415299	0.03517287
Median	4.75	24.85	30	0.37	12.3	6.6	4.4	2.44	1.431665	0.416666	0.165	1.9	1.79
Mode	0.1	26.6	30	0.3	12.6	6.7	4.6	2.32	1.46	0.41	0.16	1.7	1.79
Standard Deviation	5.91447284	1.99063678	7.00173751	1.2000592	2.05374275	0.17708187	0.56807378	0.1780974	0.11772387	0.02548503	0.040465	0.31487497	0.32427786
Sample Variance	34.980989	3.96263481	49.0243281	1.44014209	4.21785928	0.03135799	0.32270782	0.03171869	0.01385891	0.00065	0.00163742	0.09914625	0.10515613
Skewness	0.60841071	-0.1512522	-0.3878125	8.57513902	-0.5133414	0.45044887	-0.8742364	0.63956131	-0.1404654	0.56627545	5.47698518	0.18058697	3.08891161
Range	18.6	9.2	37.5	11.06	11.2	1.05	3.7	0.9	0.59	0.12	0.32	1.46	2.41
Minimum	0	20.4	2.5	0.14	5	8.19	1.9	2.11	1.15	0.37	0.13	1.24	1.42
Maximum	18.6	29.6	40	11.2	16.2	7.24	5.6	3.01	1.74	0.49	0.45	2.7	3.83
Count	74	70	85	85	73	85	71	63	62	63	62	85	85
Confidence Level(95.0%)	1.37027315	0.47465044	1.51024017	0.25884684	0.47917334	0.03819569	0.13446076	0.0448532	0.02989627	0.00642083	0.01027619	0.06791698	0.06994513

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.51075108	0.00334528	0.09184674	0.19015253	2.42252286	0.09038834	0.00017167	0.0507237	0.02830986	9.7873E-05	8.2735E-05	0.00018332
Standard Error	0.09846566	0.00032006	0.00850703	0.00426732	0.02253824	0.00919691	1.6049E-05	0.00165511	0.00104891	4.1215E-06	1.3139E-05	2.2817E-05
Median	4.4	0.0027	0.0806	0.191	2.41	0.071663	0.0002	0.0471	0.025	0.0001	0.00005	0.0001
Mode	4.3	0.002	0.09	0.12	2.46	0.07099	0.0002	0.0595	0.025	0.0001	0.00005	0.0001
Standard Deviation	0.82968638	0.00295084	0.07843096	0.03887711	0.18856844	0.07749455	0.00012432	0.01384767	0.00882139	3.4728E-05	0.00010834	0.00018815
Sample Variance	0.6883795	8.7075E-06	0.00615142	0.00151143	0.03555806	0.00600541	1.5455E-08	0.00019176	7.7817E-05	1.2061E-09	1.1739E-08	3.5401E-08
Skewness	-2.1054284	3.55849956	5.66231064	0.05424933	-0.1711436	6.62617474	5.09563808	0.90745105	2.3815142	1.37260095	6.72193609	3.40260124
Range	6.35	0.0216	0.66	0.164	1	0.624	0.00095	0.09966	0.035	0.00015	0.00089	0.0009
Minimum	0.05	0.0001	0.005	0.12	1.86	0.056	0.00005	0.007	0.025	0.00005	0.00001	0.0001
Maximum	6.4	0.0217	0.665	0.284	2.86	0.68	0.001	0.10666	0.06	0.0002	0.0009	0.001
Count	71	85	85	83	70	71	60	70	71	71	68	68
Confidence Level(95.0%)	0.1963834	0.00063648	0.01691717	0.00848906	0.04496254	0.01834265	3.2115E-05	0.00330186	0.00208799	8.22E-06	2.6225E-05	4.5542E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00386272	0.08524038	0.00432394	0.00011466	0.01078519	7.6706E-05	0.00019299	0.00418469	9.2105E-05	0.00783278	0.00014582	0.02962106
Standard Error	0.00034093	0.01744377	0.00023928	9.5761E-06	0.00184	4.3638E-06	1.6976E-05	0.00037413	7.1874E-06	9.1174E-05	2.8845E-05	0.00108816
Median	0.003	0.0514	0.005	0.0001	0.007265	0.00005	0.0002	0.00325	0.0001	0.0079	0.0001	0.02915
Mode	0.0022	0.0471	0.005	0.0001	0.0133	0.00005	0.0001	0.0024	0.0001	0.0079	0.0001	0.0217
Standard Deviation	0.0028114	0.14384504	0.00201618	7.8967E-05	0.01517299	3.5985E-05	0.00013999	0.00308515	4.4306E-05	0.00075184	0.00023787	0.0089732
Sample Variance	7.904E-06	0.02069139	4.065E-06	6.2357E-09	0.00023022	1.2949E-09	1.9598E-08	9.5182E-06	1.963E-09	5.6527E-07	5.658E-08	8.0518E-05
Skewness	3.08937807	6.6452318	2.36466578	2.75975419	4.97335657	1.73525306	2.68273705	2.17858382	1.30842556	0.24067004	7.28825383	-0.0959634
Range	0.0186	1.1314	0.0125	0.00045	0.101	0.00015	0.0008	0.01913	0.00015	0.0037	0.00195	0.0442
Minimum	0.0002	0.0286	0.0025	0.00005	0.003	0.00005	0.0001	0.0002	0.00005	0.0062	0.00005	0.0016
Maximum	0.0188	1.16	0.015	0.0005	0.104	0.0002	0.0009	0.01933	0.0002	0.0099	0.002	0.0458
Count	68	68	71	68	68	68	68	68	38	68	68	68
Confidence Level(95.0%)	0.0006805	0.03481793	0.00047722	1.9114E-05	0.00367265	8.7102E-06	3.3885E-05	0.00074677	1.4563E-05	0.00018198	5.7576E-05	0.00217198

Descriptive Statistics for Exploits River (@ Aspen Brook Park)- NF02YO0020

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.65675676	25.5859813	30.3577236	0.8404065	11.6863551	6.52390244	4.38773585	2.34203883	1.60803922	0.44650485	0.18431373	1.76888525	2.16713115
Standard Error	0.64626137	0.26595598	0.94004603	0.33742929	0.20670093	0.02541607	0.07465648	0.02890388	0.02039126	0.00476101	0.00397407	0.03300575	0.04887537
Median	4.4	25.7	30	0.4	12	6.56	4.4	2.4	1.6	0.45	0.18	1.705	2.1
Mode	0.1	27.2	30	0.4	9.4	6.6	4.5	2.6	1.68	0.44	0.17	1.68	2.1
Standard Deviation	6.80878606	2.75107007	10.4256148	3.74227191	2.13813108	0.28187788	0.7686355	0.29334233	0.20594164	0.04831897	0.04013615	0.36456038	0.53984614
Sample Variance	46.3595676	7.56838653	108.693444	14.004599	4.57160451	0.07945514	0.59080054	0.08604972	0.04241196	0.00233472	0.00161091	0.13290427	0.29143385
Skewness	0.57136263	0.54928813	0.11390088	10.7754006	-0.5825383	-3.0880517	0.07390847	-1.2141227	1.68786038	-0.5243648	4.41134565	0.21567613	4.33001932
Range	22.5	20.1	55	41.47	12.4	2.61	4.4	1.49	1.64	0.37	0.35	1.82	5.08
Minimum	0	17.3	5	0.13	4.3	4.49	2.5	1.31	1.1	0.26	0.13	0.85	1.17
Maximum	22.5	37.4	60	41.6	16.7	7.1	6.9	2.8	2.74	0.63	0.48	2.67	6.25
Count	111	107	123	123	107	123	106	103	102	103	102	122	122
Confidence Level(95.0%)	1.28073896	0.52728391	1.86091664	0.66797558	0.40980494	0.0503137	0.14803011	0.05733068	0.04045077	0.00944344	0.00788349	0.06534363	0.09676177

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.88214766	0.00406504	0.08493328	0.21663248	2.50947917	0.09940131	0.00020078	0.04365085	0.0328125	0.00010701	6.0374E-05	0.00034184
Standard Error	0.10864645	0.00035364	0.01085548	0.01189223	0.03382371	0.00821738	1.4282E-05	0.00420389	0.00299198	1.1774E-05	6.7772E-06	6.1814E-05
Median	4.7	0.003	0.07	0.204	2.535	0.082	0.0002	0.03655	0.025	0.00005	0.00005	0.0002
Mode	4.6	0.003	0.07	0.198	2.58	0.082	0.0002	0.105	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.12384761	0.00389007	0.11990272	0.12863411	0.3314033	0.06431305	0.00011426	0.04328165	0.01196784	0.00012179	9.0792E-05	0.00062735
Sample Variance	1.26303346	1.5133E-05	0.01437666	0.01654673	0.10982815	0.00413617	1.3055E-08	0.0018733	0.00014323	1.4832E-08	8.2433E-09	3.9357E-07
Skewness	0.05334317	4.42297524	9.8659569	7.3487655	-0.2380312	4.81803451	2.73184941	7.54675768	0.89525652	4.16454178	5.86390848	4.08237338
Range	7.2	0.0292	1.34101	1.37	1.82	0.539	0.00065	0.4336	0.025	0.00085	0.00075	0.00369
Minimum	1	0.0005	0.00899	0.05	1.43	0.033	0.00005	0.0064	0.025	0.00005	0.00005	0.00001
Maximum	8.2	0.0297	1.35	1.42	3.25	0.572	0.0007	0.44	0.05	0.0009	0.0008	0.0037
Count	107	121	122	117	96	107	64	106	16	107	107	103
Confidence Level(95.0%)	0.21540228	0.00070019	0.02149131	0.02355404	0.0671485	0.01232656	2.8541E-05	0.00833553	0.00637722	2.3343E-05	1.7402E-05	0.00012261

	CUT	FET	HGT	IJT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00276519	0.13109452	0.00487356	0.00014853	0.02078524	8.3981E-05	0.00021262	0.00486883	0.0000875	0.00829476	0.00017573	0.02367212
Standard Error	0.00017449	0.01408925	0.00017689	9.7148E-06	0.00366503	7.4689E-06	1.7325E-05	0.00100174	6.0472E-06	0.00011936	1.9087E-05	0.00133497
Median	0.00225	0.09545	0.005	0.0001	0.012	0.00005	0.0002	0.0027	0.0001	0.00839	0.0001	0.0211
Mode	0.0017	0.127	0.005	0.0001	0.0085	0.00005	0.0001	0.0032	0.0001	0.0089	0.0001	0.0161
Standard Deviation	0.00177942	0.14368276	0.00164991	9.8115E-05	0.03719598	7.5801E-05	0.00017583	0.01016653	4.1897E-05	0.00121139	0.00019351	0.01361404
Sample Variance	3.1664E-06	0.02064474	2.7222E-06	9.6265E-09	0.00138354	5.7458E-09	3.0918E-08	0.00010336	1.7553E-09	1.4675E-06	3.7444E-08	0.00018534
Skewness	2.64073055	5.45602193	2.83594168	2.11885248	6.6071614	3.48846356	2.97087029	6.92886828	1.41511812	-0.1567916	4.67095373	3.71358053
Range	0.01211	1.223	0.0125	0.00065	0.3318	0.00045	0.0011	0.0918	0.00015	0.0109	0.00155	0.1132
Minimum	0.00059	0.027	0.0025	0.00005	0.0042	0.00005	0.0001	0.0001	0.00005	0.0029	0.00005	0.0068
Maximum	0.0127	1.25	0.015	0.0007	0.336	0.0005	0.0012	0.0919	0.0002	0.0138	0.0016	0.12
Count	104	104	87	102	103	103	103	103	48	103	103	104
Confidence Level(95.0%)	0.00034605	0.02794269	0.00035164	1.9272E-05	0.00726956	1.4814E-05	3.4365E-05	0.00198694	1.2165E-05	0.00023675	3.7819E-05	0.00264759

Descriptive Statistics for Exploits River (@ Grand Falls)- NF02YO0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	4.46034483	26.4355446	30.3188679	0.79019408	14.0884615	6.55571695	5.67968761	2.78709631	1.62311591	0.53065548	0.20503621	2.15918405	2.02501614
Standard Error	0.76607176	1.20835105	1.16179309	0.04540225	0.35302329	0.02109284	0.74415662	0.25217775	0.0451153	0.03972794	0.00752893	0.11527646	0.05593599
Median	1	24	30	0.7	14.25	6.595	4.8	2.5	1.6	0.47	0.19	2	2
Mode	0.5	24	30	0.5	14.8	6.6	4.6	2.4	1.6	0.5	0.19	1.7	2.2
Standard Deviation	5.83422869	12.4407355	11.961392	0.46078256	1.80007265	0.21716408	5.95325297	2.43191415	0.43273076	0.38312236	0.072215	1.14117875	0.56214974
Sample Variance	34.0382244	154.771899	143.074898	0.21232057	3.24026154	0.04716024	35.4412209	5.91420643	0.18725591	0.14678274	0.00521501	1.30228893	0.31601233
Skewness	1.19037377	5.87212015	0.75290791	2.09861842	0.51792452	1.87917267	7.5152434	6.41639418	2.48439116	6.22279098	3.3874594	3.81101005	3.08687381
Range	17	123.56667	77.5	2.69	7	2	49.8	20.016633	3.2	3.13	0.6	9.1	5
Minimum	0	2.43333	2.5	0.21	11.2	5.9	1.8	0.316667	0.5	0.17	0.05	0.5	0.8
Maximum	17	126	80	2.9	18.2	7.9	51.6	20.3333	3.7	3.3	0.65	9.6	5.8
Count	58	106	106	103	26	106	64	93	92	93	92	98	101
Confidence Level(95.0%)	1.53403289	2.39593862	2.30362273	0.09005511	0.72706457	0.04182324	1.48707925	0.50084678	0.08961601	0.07890311	0.0149553	0.22879174	0.11097542

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	4.76153816	0.00728086	0.0581901	0.1575016	2.45692286	0.07375	0.00024924	0.032425	0.0421875	8.4375E-05	8.4375E-05	0.0001875
Standard Error	1.5963E-10	0.12778114	0.00075036	0.00886339	0.00750236	0.05158369	0.00533971	1.5626E-05	0.00189106	0.00299196	5.9839E-06	5.9839E-06	2.3936E-05
Median	0.025	4.7	0.006	0.05	0.146667	2.42	0.0705	0.00025	0.02985	0.05	0.0001	0.0001	0.0002
Mode	0.025	4.8	0.006	0.01	0.05	2.2	0.07	0.00025	0.0295	0.05	0.0001	0.0001	0.0002
Standard Deviation	1.2365E-09	1.21895442	0.00772541	0.09082269	0.07614063	0.45557485	0.02135884	0.00012694	0.00756428	0.01196784	2.3936E-05	2.3936E-05	9.5743E-05
Sample Variance	1.5289E-18	1.48584987	5.9682E-05	0.00824876	0.0057974	0.20754844	0.0004562	1.6115E-08	5.7218E-05	0.00014323	5.7292E-10	5.7292E-10	9.1667E-09
Skewness	1.02582585	0.12161449	4.84154636	7.82047643	1.72051278	-0.4101856	1.13234773	2.3557949	0.30767929	-0.8952565	-0.8952565	-0.8952565	2.36022172
Range	0	8.3	0.05577	0.895	0.515	2.68	0.081	0.00085	0.0274	0.025	0.00005	0.00005	0.0004
Minimum	0.025	0.5	0.0009	0.005	0.04	0.72	0.048	0.00005	0.0195	0.025	0.00005	0.00005	0.0001
Maximum	0.025	8.8	0.05667	0.9	0.555	3.4	0.129	0.0009	0.0469	0.05	0.0001	0.0001	0.0005
Count	60	91	106	105	103	78	16	66	16	18	16	16	16
Confidence Level(95.0%)	3.1942E-10	0.25385934	0.00148782	0.01757641	0.01488089	0.10271638	0.01138133	3.1207E-05	0.00403071	0.00637722	1.2754E-05	1.2754E-05	5.1018E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00165	0.09944375	0.0056875	0.0000875	0.01585625	8.4375E-05	0.0001875	0.0017625		0.007475	0.00015	0.013775
Standard Error	8.4163E-05	0.01262842	0.00092745	5.5902E-06	0.0021926	5.9839E-06	1.797E-05	0.00021792		0.00017188	1.9365E-05	0.00068881
Median	0.00165	0.08115	0.005	0.0001	0.0144	0.0001	0.0002	0.0016		0.00745	0.0002	0.0132
Mode	0.0021		0.005	0.0001		0.0001	0.0002	0.0023		0.0074	0.0002	0.0129
Standard Deviation	0.00033665	0.05051369	0.00370978	2.2361E-05	0.0087704	2.3936E-05	7.188E-05	0.00087188		0.00068751	7.746E-05	0.00275524
Sample Variance	1.1333E-07	0.00255163	1.3763E-05	5E-10	7.692E-05	5.7292E-10	5.1667E-09	7.5983E-07		4.7267E-07	6E-09	7.5913E-06
Skewness	-0.1018437	1.24233577	2.02582547	-1.2777531	1.76324675	-0.8952565	1.42327237	0.2952974		-0.4557897	-1.891E-15	0.99172004
Range	0.001	0.1829	0.0135	0.00005	0.0371	0.00005	0.0003	0.0028		0.0024	0.00025	0.0097
Minimum	0.0011	0.0461	0.0025	0.00005	0.0044	0.00005	0.0001	0.0005		0.0061	0.00005	0.0099
Maximum	0.0021	0.229	0.016	0.0001	0.0415	0.0001	0.0004	0.0033		0.0085	0.0003	0.0198
Count	16	16	16	16	16	16	16	16		16	16	16
Confidence Level(95.0%)	0.00017939	0.02691686	0.00197681	1.1915E-05	0.00467342	1.2754E-05	3.8302E-05	0.00046449		0.00036635	4.1275E-05	0.00146816

Descriptive Statistics for Exploits River (@ Bishop's Falls)- NF02YO0021

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.4323944	29.17069	32.550667	0.6708	11.884857	6.4468919	5.1413793	2.638125	2.0421277	0.5104167	0.2240426	2.1247917	2.6831944
Standard Error	0.818869	0.587143	1.357968	0.0771513	0.2837432	0.0342751	0.1184962	0.0464146	0.0634098	0.0093255	0.0058793	0.0876557	0.081445
Median	3.4	28.9	30	0.5	12.35	6.5	5.15	2.65	1.96	0.505	0.22	1.935	2.56
Mode	0.1	28	40	0.5	13.3	6.6	4.4	2.67	1.8	0.52	0.19	1.99	2.7
Standard Deviation	6.8999125	4.4715478	11.760348	0.6681494	2.3739661	0.2948458	0.9024401	0.3215697	0.434716	0.0646088	0.0403064	0.7437834	0.6910837
Sample Variance	47.608793	19.99474	138.30578	0.4464237	5.6357152	0.086934	0.8143981	0.103407	0.188978	0.0041743	0.0016246	0.5532137	0.4775967
Skewness	0.6436222	1.0119743	0.8707998	3.7757349	-0.121891	-2.591011	0.5613057	0.0385415	2.2404531	0.6304778	0.6503375	0.9646752	1.6315613
Range	21.4	26.2	70	4.27	10.9	1.69	5.3	1.64	2.59	0.3	0.18	4.685	4.1
Minimum	0	20.5	10	0.15	7.1	5.12	3.2	1.88	1.43	0.38	0.15	0.005	1.51
Maximum	21.4	46.7	80	4.42	18	6.81	8.5	3.52	4.02	0.68	0.33	4.69	5.61
Count	71	58	75	75	70	74	58	48	47	48	47	72	72
Confidence Level(95.0%)	1.6331813	1.1757341	2.7058106	0.1537272	0.5660521	0.0683103	0.2372846	0.093374	0.1276373	0.0187604	0.0118344	0.1747806	0.1623968

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.0982456	0.0086316	0.0675874	0.2034571	2.4681633	0.1044655	0.0002219	0.0384209	0.0156579	0.0001138	0.0001105	0.0002702
Standard Error	0.168701	0.000696	0.0052281	0.0087899	0.0572497	0.0146297	3.796E-05	0.0019142	0.0025806	1.694E-05	1.597E-05	4.143E-05
Median	4.9	0.0081	0.06	0.196	2.43	0.0795	0.0002	0.0334	0.0025	0.0001	0.0001	0.0002
Mode	4.6	0.006	0.08	0.12	2.2	0.08	0.0002	0.0542	0.0025	0.0001	0.00005	0.0002
Standard Deviation	1.2736647	0.0059868	0.0443615	0.0735414	0.4007476	0.1114161	0.0002148	0.0144517	0.0194829	0.000129	0.0001205	0.0003128
Sample Variance	1.6222219	3.584E-05	0.0019679	0.0054083	0.1605986	0.0124136	4.612E-08	0.0002089	0.0003796	1.665E-08	1.453E-08	9.784E-08
Skewness	0.6920446	6.3577787	1.191971	0.6302109	0.6121037	6.504647	4.2908875	0.4423284	1.0216629	4.6317972	5.2750937	4.5463754
Range	8.2	0.0526	0.2175	0.379	1.59	0.855	0.00125	0.0592	0.0475	0.00085	0.00085	0.002
Minimum	1	0.0021	0.0025	0.05	1.92	0.04	0.00005	0.0114	0.0025	0.00005	0.00005	0.0001
Maximum	9.2	0.0547	0.22	0.429	3.51	0.895	0.0013	0.0706	0.05	0.0009	0.0009	0.0021
Count	57	74	72	70	49	58	32	57	57	58	57	57
Confidence Level(95.0%)	0.3379485	0.001387	0.0104244	0.0175353	0.1151081	0.0292954	7.743E-05	0.0038346	0.0051695	3.393E-05	3.198E-05	8.3E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0033155	0.1614429	0.0052373	0.0001691	0.0326259	8.667E-05	0.0003347	0.0028878	7.917E-05	0.0092639	0.0002996	0.0220826
Standard Error	0.0002568	0.0288691	0.0004198	1.486E-05	0.0054877	1.005E-05	3.106E-05	0.0005839	7.432E-06	0.0001947	4.671E-05	0.0017432
Median	0.0026	0.107	0.005	0.0001	0.02385	0.00005	0.0003	0.0023	0.0001	0.0091	0.0002	0.02
Mode	0.0023	0.135	0.005	0.0001	0.0202	0.00005	0.0003	0.0015	0.0001	0.0082	0.0002	0.03
Standard Deviation	0.001956	0.2198609	0.002655	0.0001122	0.041793	7.588E-05	0.0002345	0.004447	2.575E-05	0.0014697	0.0003526	0.013276
Sample Variance	3.826E-06	0.0483388	7.049E-06	1.259E-08	0.0017467	5.758E-09	5.499E-08	1.978E-05	6.629E-10	2.16E-06	1.243E-07	0.0001763
Skewness	1.866517	6.2741551	0.9636108	1.4364693	5.9185087	5.4659181	2.855238	6.9511103	-0.388403	0.6896366	4.2722215	3.9628108
Range	0.0093	1.64	0.0105	0.00054	0.3165	0.00054	0.0014	0.0348	0.00005	0.0071	0.00235	0.0938
Minimum	0.0013	0.06	0.0025	0.00005	0.0025	0.00005	0.0001	0.0004	0.00005	0.0066	0.00005	0.0072
Maximum	0.0106	1.7	0.013	0.00059	0.319	0.00059	0.0015	0.0352	0.0001	0.0137	0.0024	0.101
Count	58	58	40	57	58	57	57	58	12	57	57	58
Confidence Level(95.0%)	0.0005143	0.0578095	0.0008491	2.978E-05	0.0109889	2.013E-05	6.222E-05	0.0011693	1.636E-05	0.00039	9.356E-05	0.0034907

Descriptive Statistics for Northwest Gander River- NF02YQ0009

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.8346666	25.888172	67.796236	0.5242739	11.7194	6.3263976	3.69096	1.2629868	2.0670434	1.0552511	0.2000626	1.3302838	2.8037156
Standard Error	1.0834559	1.2299177	2.6671455	0.0494664	0.2753725	0.0322731	0.2392976	0.0421111	0.168544	0.0649979	0.0064593	0.0629943	0.2917145
Median	2.65	24.4	70	0.455	12.15	6.325	3.3	1.29333	1.8	0.99	0.2	1.26	2.45
Mode	0.1	25.8	80	0.33	13.3	6.34	3.9	1.1	1.59	0.85	0.17	1.39	2.11
Standard Deviation	7.6611898	9.684382	21.001125	0.3894985	1.9471774	0.2541188	1.8380796	0.3065737	1.2270192	0.4731915	0.0470247	0.4920009	2.2783633
Sample Variance	58.693829	93.787254	441.04724	0.1517091	3.7914996	0.0645764	3.3785366	0.0939875	1.5055761	0.2239102	0.0022113	0.2420649	5.1909395
Skewness	0.7393189	3.0311292	-0.114831	5.5719309	0.07156	-0.411419	1.5899512	-0.000696	4.1529469	1.8942909	0.8598381	1.4578531	5.9652866
Range	24.4	66.6	112.5	3.01	8.4	1.40333	10.33333	1.29666	8.00001	2.47333	0.23	2.545	17.71
Minimum	0	11.8	7.5	0.19	8.5	5.54333	0.4	0.61	0.93999	0.33	0.12	0.67	0.99
Maximum	24.4	78.4	120	3.2	16.9	6.94666	10.73333	1.90666	8.94	2.80333	0.35	3.215	18.7
Count	50	62	62	62	50	62	59	53	53	53	53	61	61
Confidence Level(95.0%)	2.1772847	2.4593732	5.3332886	0.0989141	0.5533813	0.0645341	0.4790058	0.0845021	0.3382081	0.1304276	0.0129616	0.1260072	0.5835158

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	7.8683868	0.0053662	0.0332649	0.2417485	1.9871427	0.1240803	0.0006535	0.0013695	0.0274194	6.532E-05	0.0001215	0.0009598
Standard Error	0.2489841	0.0005394	0.0051326	0.0076159	0.1385126	0.0055701	2.639E-05	6.297E-05	0.0009464	4.08E-06	9.631E-06	0.0006174
Median	7.83333	0.0048	0.01	0.242	2.02	0.130165	0.0006	0.0014	0.025	0.00005	0.0001	0.00028
Mode	7.9	0.0046	0.005	0.244	1.93	0.136	0.0005	0.0011	0.025	0.00005	0.0001	0.0002
Standard Deviation	1.9605024	0.0042131	0.0400866	0.0584985	1.0365336	0.0438588	0.0001669	0.0004958	0.0074516	3.212E-05	7.46E-05	0.004782
Sample Variance	3.8435696	1.775E-05	0.0016069	0.0034221	1.0744018	0.0019236	2.785E-08	2.458E-07	5.553E-05	1.032E-09	5.566E-09	2.287E-05
Skewness	-0.124257	2.9464422	1.9920975	0.4764109	0.0615811	-0.358933	0.5432917	-0.219243	2.7958243	2.6874934	1.6249481	7.6320891
Range	10.7	0.0258	0.2025	0.2705	3.73	0.231	0.0008	0.0021	0.025	0.00015	0.00035	0.0371
Minimum	2	0.0001	0.0025	0.142	0.33	0.004	0.0003	0.0002	0.025	0.00005	0.00005	0.0001
Maximum	12.7	0.0259	0.205	0.4125	4.06	0.235	0.0011	0.0023	0.05	0.0002	0.0004	0.0372
Count	62	61	61	59	56	62	40	62	62	62	60	60
Confidence Level(95.0%)	0.4978745	0.001079	0.0102667	0.0152448	0.2775854	0.011138	5.337E-05	0.0001259	0.0018923	8.158E-06	1.927E-05	0.0012353

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0010637	0.2540662	0.0048019	0.0003149	0.0172775	0.0001473	0.0014097	0.000265	0.0001105	0.0070793	0.0001353	0.0009293
Standard Error	0.0002389	0.0156349	0.0003572	1.72E-05	0.0019162	7.402E-05	0.0001336	3.587E-05	1.144E-05	0.0002466	1.154E-05	9.044E-05
Median	0.0004	0.2555	0.005	0.0003	0.0126	0.00005	0.0012	0.0001	0.0001	0.0074	0.0001	0.000715
Mode	0.0003	0.292	0.005	0.0004	0.0176	0.00005	0.0012	0.0001	0.0001	0.0069	0.0001	0.0004
Standard Deviation	0.0018502	0.1211074	0.0026006	0.0001321	0.014843	0.0005734	0.0010349	0.0002778	5.367E-05	0.0019099	8.941E-05	0.0007006
Sample Variance	3.423E-06	0.014667	6.763E-06	1.746E-08	0.0002203	3.288E-07	1.071E-06	7.719E-08	2.881E-09	3.648E-06	7.995E-09	4.908E-07
Skewness	3.2090734	2.4567237	1.8857958	-0.008406	2.5382422	7.6667053	2.3923732	2.5794661	0.82815	-0.758032	2.5227346	1.2162266
Range	0.0091	0.89706	0.0125	0.00065	0.0775	0.00445	0.00566	0.0015	0.00015	0.01075	0.00054	0.0029
Minimum	0.0001	0.0066	0.0025	0.00005	0.0005	0.00005	0.0001	0.0001	0.00005	0.00005	0.00005	0.0001
Maximum	0.0092	0.90366	0.015	0.0007	0.078	0.0045	0.00576	0.0016	0.0002	0.0108	0.00059	0.003
Count	60	60	53	59	60	60	60	60	22	60	60	60
Confidence Level(95.0%)	0.000478	0.0312854	0.0007168	3.443E-05	0.0038344	0.0001481	0.0002673	7.177E-05	2.38E-05	0.0004934	2.31E-05	0.000181

Descriptive Statistics for Gander River (@ Appleton)- NF02YQ0030

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.6081081	25.428889	48.088889	0.4068889	11.455833	6.3951111	2.7844444	1.4379487	2.2069231	0.6710251	0.2558974	1.3788636	3.0634091
Standard Error	0.9597483	0.7129794	1.0247405	0.0336242	0.283035	0.0223847	0.0963975	0.02607	0.1085925	0.0074547	0.005113	0.0402663	0.1448517
Median	3.3	24.3	50	0.35	11.495	6.38	2.6	1.4	1.96	0.67	0.25	1.33	2.705
Mode	2.6	24.5	50	0.27	12.1	6.38	2.5	1.38	1.78	0.67	0.26	1.36	2.78
Standard Deviation	5.837921	4.7828112	6.8741685	0.2255581	1.6982098	0.1501609	0.6466542	0.1628073	0.6781599	0.0465545	0.0319307	0.2670965	0.9608377
Sample Variance	34.081321	22.875283	47.254192	0.0508765	2.8839164	0.0225483	0.4181616	0.0265062	0.4599008	0.0021673	0.0010196	0.0713405	0.923209
Skewness	0.626902	1.912278	0.2740201	2.7555718	0.2223105	0.3561638	3.4762563	1.8116871	2.0527203	0.9244343	2.9510376	0.9214892	1.8484239
Range	17.8	21.9	22.8	1.34	8.2	0.6	3.9	0.95	2.85	0.2	0.2	1.36	3.74
Minimum	0.1	20.1	37.2	0.14	7.9	6.14	2.2	1.1	1.71	0.6	0.21	0.72	2.11
Maximum	17.9	42	60	1.48	16.1	6.74	6.1	2.05	4.56	0.8	0.41	2.08	5.85
Count	37	45	45	45	36	45	45	39	39	39	39	44	44
Confidence Level(95.0%)	1.9464572	1.4369155	2.0652288	0.0677652	0.5745922	0.0451133	0.1942764	0.052776	0.219834	0.0150912	0.0103507	0.0812047	0.2921212

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	6.364	0.00532	0.0987952	0.2602381	2.3602222	0.1100222	0.000278	0.0016622	0.0288889	5.889E-05	6.977E-05	0.000214
Standard Error	0.1389028	0.0005691	0.0051769	0.0063895	0.0327317	0.0022807	1.897E-05	6.523E-05	0.001366	2.882E-06	5.553E-06	1.03E-05
Median	6.5	0.0047	0.1	0.2555	2.35	0.108	0.0003	0.0016	0.025	0.00005	0.00005	0.0002
Mode	6.7	0.0047	0.1	0.24	2.34	0.111	0.0003	0.0015	0.025	0.00005	0.00005	0.0002
Standard Deviation	0.9317881	0.0038175	0.0343394	0.0414086	0.2195707	0.0152993	0.0001215	0.0004376	0.0091632	1.933E-05	3.642E-05	6.755E-05
Sample Variance	0.8682291	1.457E-05	0.0011792	0.0017147	0.0482113	0.0002341	1.476E-08	1.915E-07	8.396E-05	3.737E-10	1.326E-09	4.563E-09
Skewness	-2.077618	2.0920244	-0.922271	1.6817268	-0.711894	1.6754909	1.9398715	0.9565994	1.9669124	1.7442803	2.3215946	1.7713403
Range	6.4	0.0202	0.15	0.234	1.09	0.089	0.0007	0.0021	0.025	0.00005	0.00015	0.0004
Minimum	2	0.0001	0.01	0.177	1.69	0.085	0.0001	0.0008	0.025	0.00005	0.00005	0.0001
Maximum	8.4	0.0203	0.16	0.411	2.78	0.174	0.0008	0.0029	0.05	0.0001	0.0002	0.0005
Count	45	45	44	42	45	45	41	45	45	45	43	43
Confidence Level(95.0%)	0.2799401	0.0011469	0.0104401	0.0129038	0.0659664	0.0045964	3.834E-05	0.0001315	0.0027529	5.808E-06	1.121E-05	2.079E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0010753	0.0848319	0.0045452	0.000393	0.0109442	6.279E-05	0.0006305	0.0001649	0.0001087	0.0079342	8.372E-05	0.0010879
Standard Error	0.0002746	0.0037185	0.0003074	1.466E-05	0.000968	3.366E-06	2.401E-05	1.712E-05	8.108E-06	0.0001597	4.623E-06	7.208E-05
Median	0.00059	0.0802	0.005	0.0004	0.0089	0.00005	0.0006	0.0001	0.0001	0.0077	0.0001	0.001
Mode	0.0005	0.0924	0.005	0.0004	0.0086	0.00005	0.00059	0.0001	0.0001	0.0077	0.0001	0.0008
Standard Deviation	0.0018009	0.0243838	0.0020393	9.61E-05	0.0063476	2.207E-05	0.0001574	0.0001122	3.888E-05	0.0010473	3.032E-05	0.0004727
Sample Variance	3.243E-06	0.0005946	4.159E-06	9.236E-09	4.029E-05	4.873E-10	2.479E-08	1.26E-08	1.512E-09	1.097E-06	9.192E-10	2.234E-07
Skewness	4.153863	1.7449481	1.3778974	-1.037167	1.6724057	1.1601736	0.4712096	2.0473242	1.5812875	1.9961527	0.9595731	1.4078546
Range	0.0093	0.1381	0.0095	0.0004	0.0298	0.00005	0.0008	0.00049	0.00015	0.0049	0.00015	0.0026
Minimum	0.0002	0.0439	0.0025	0.0001	0.0017	0.00005	0.0003	0.0001	0.00005	0.0067	0.00005	0.0003
Maximum	0.0095	0.182	0.012	0.0005	0.0315	0.0001	0.0011	0.00059	0.0002	0.0116	0.0002	0.0029
Count	43	43	44	43	43	43	43	43	23	43	43	43
Confidence Level(95.0%)	0.0005542	0.0075042	0.00062	2.958E-05	0.0019535	6.793E-06	4.845E-05	3.454E-05	1.681E-05	0.0003223	9.33E-06	0.0001455

Descriptive Statistics for Gander River- NF02YQ0005

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.24285714	25.2837038	44.9629631	0.68329622	11.2992857	6.41677778	3.28148156	1.50396289	1.96948156	0.72840689	0.25440756	1.27481467	2.82803711
Standard Error	1.09795049	0.21387182	1.13421544	0.22193477	0.30060071	0.02793973	0.07414916	0.01607007	0.02075031	0.00730338	0.00349892	0.02800081	0.06004918
Median	4.65	25.3	50	0.38	11.85	6.43	3.36667	1.51	1.94	0.73	0.26	1.25	2.8
Mode	0.1	25.2	50	0.45	12.7	6.39	3.5	1.4	1.93	0.78	0.27	1.1	2.57
Standard Deviation	7.1155324	1.43469577	7.6085485	1.4887837	1.94811528	0.18742538	0.4974077	0.10780129	0.13919732	0.04899255	0.02347144	0.18783516	0.40282214
Sample Variance	50.6308014	2.05835196	57.8900102	2.2164769	3.79515314	0.03512827	0.24741442	0.01162112	0.01937589	0.00240027	0.00055091	0.03528205	0.16226567
Skewness	0.56603796	0.23778628	-0.1709639	5.89660039	-0.8935549	0.26176083	-0.3699349	-0.1213721	0.9218249	-0.1302555	0.76032179	1.34773852	1.82771063
Range	20.3	7.5	30	9.91	8.82	0.89	2.25	0.58	0.69	0.19	0.13	0.93	2.29
Minimum	0.1	22.1	30	0.09	5.28	6.04	2	1.22	1.76	0.64	0.21	0.98	2.21
Maximum	20.4	29.6	60	10	14.1	6.93	4.25	1.8	2.45	0.83	0.34	1.91	4.5
Count	42	45	45	45	42	45	45	45	45	45	45	45	45
Confidence Level(95.0%)	2.21735721	0.43103031	2.28586094	0.44728012	0.60707579	0.05630881	0.14943781	0.03238709	0.0418195	0.01471899	0.0070516	0.05643193	0.12102116

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	6.36496311	0.00523091	0.07951111	0.2473993	1.97991462	0.12513333	0.00044042	0.003036	0.025	6.1556E-05	9.5682E-05	0.00035628
Standard Error	0.16128321	0.00075107	0.0051429	0.00965273	0.10366721	0.01111266	8.4931E-05	0.00132288	1.0254E-10	3.2869E-06	1.5244E-05	4.8479E-05
Median	6.36667	0.004	0.09	0.2395	2.31	0.11	0.0003	0.0015	0.025	0.00005	0.00005	0.0003
Mode	6.3	0.0035	0.09	0.246	2.36	0.115	0.0003	0.0014	0.025	0.00005	0.00005	0.0003
Standard Deviation	1.08192069	0.00498201	0.03449964	0.06329719	0.64740151	0.07454597	0.00041607	0.00887418	6.8783E-10	2.2049E-05	0.00010112	0.0003179
Sample Variance	1.17055237	2.482E-05	0.00119023	0.00400653	0.41912872	0.0055571	1.7312E-07	7.8751E-05	4.7311E-19	4.8616E-10	1.0225E-08	1.0106E-07
Skewness	-2.7040241	4.72365971	-0.560483	1.72837454	-1.1665355	3.63909528	4.21935712	6.64701761	#DIV/0!	1.45777112	3.52637497	2.62535708
Range	7.35	0.0338	0.145	0.339	2.19	0.391	0.0021	0.06007	0	0.00007	0.00054	0.0015
Minimum	1	0.0002	0.005	0.133	0.45	0.067	0.0002	0.001	0.025	0.00005	0.00005	0.0001
Maximum	8.35	0.034	0.15	0.472	2.64	0.458	0.0023	0.06107	0.025	0.00012	0.00059	0.0016
Count	45	44	45	43	39	45	24	45	45	45	44	43
Confidence Level(95.0%)	0.32504495	0.00151467	0.01036484	0.01948001	0.2098633	0.02239609	0.00017569	0.0026661	2.0665E-10	6.6243E-06	3.0743E-05	9.7834E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00121814	0.14685047	0.00539206	0.00039262	0.02037837	6.1628E-05	0.00063721	0.0002114	0.0001	0.00797209	0.0001193	0.00087419
Standard Error	0.00038239	0.02828712	0.00019321	1.6838E-05	0.00611522	5.9616E-06	4.6501E-05	2.888E-05	7.6999E-06	0.00010047	1.6537E-05	8.4734E-05
Median	0.00059	0.09279	0.005	0.0004	0.0107	0.00005	0.00059	0.0001	0.0001	0.0082	0.0001	0.0008
Mode	0.0005	0.104	0.005	0.0004	0.0055	0.00005	0.00059	0.0001	0.0001	0.0082	0.0001	0.0008
Standard Deviation	0.00250748	0.18549105	0.00112658	0.00010912	0.04010021	3.9093E-05	0.00030493	0.00018938	3.6927E-05	0.00065885	0.00010844	0.00055564
Sample Variance	6.2875E-06	0.03440693	1.2692E-06	1.1908E-08	0.00160803	1.5282E-09	9.2983E-08	3.5865E-08	1.3636E-09	4.3408E-07	1.1759E-08	3.0873E-07
Skewness	4.35501876	3.85320391	3.05628876	-0.0741007	5.65868552	3.32010547	3.29271292	1.86310631	1.48295939	-0.8094056	2.6951383	1.7178296
Range	0.0134	0.9747	0.005	0.0006	0.2595	0.00015	0.0021	0.0007	0.00015	0.0029	0.00054	0.0028
Minimum	0.0001	0.0553	0.005	0.0001	0.0045	0.00005	0.0001	0.0001	0.00005	0.0062	0.00005	0.0001
Maximum	0.0135	1.03	0.01	0.0007	0.264	0.0002	0.0022	0.0008	0.0002	0.0091	0.00059	0.0029
Count	43	43	34	42	43	43	43	43	23	43	43	43
Confidence Level(95.0%)	0.00077169	0.05708574	0.00039308	3.4005E-05	0.01234103	1.2031E-05	9.3844E-05	5.8282E-05	1.5969E-05	0.00020276	3.3373E-05	0.000171

Descriptive Statistics for Pound Cove Brook- NF02YR0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.04711538	41.7060756	115.634435	0.75857876	12.2623301	5.1127391	1.03333333	0.69961993	5.0006957	0.72963575	0.28375688	1.28164316	8.53187345
Standard Error	0.70496606	1.25270394	4.82483389	0.09035447	0.72816213	0.02567825	0.41218805	0.0202322	0.14407393	0.0240251	0.00754957	0.04654308	0.30092976
Median	4.1	40.5	100	0.5	11.8	5.09	0.5	0.665	4.895	0.684995	0.25	1.225	8.185
Mode	0.1	40.4	100	0.38	13.2	4.93	0.1	0.5	2.93	0.8	0.26	0.63	12.7
Standard Deviation	7.18927136	13.4337531	51.7405792	0.96894379	7.3900385	0.27536853	1.4278613	0.21219708	1.51106012	0.25197741	0.0791806	0.49694413	3.21305062
Sample Variance	51.6856227	180.465722	2677.08754	0.93885206	54.612669	0.07582783	2.03878788	0.0450276	2.28330268	0.06349261	0.00626957	0.24695347	10.3236943
Skewness	0.71297016	-0.0061245	1.17303264	4.94739269	9.03804392	0.79121472	2.06492777	0.4963857	0.43342303	0.54543891	1.78761294	0.43317858	0.54743804
Range	25.3	76.15	275	8.07	79.5	1.64	4.7	1	7.18	1.11	0.55	2.08	14.97
Minimum	0.1	0.05	5	0.03	4.3	4.51	0.1	0.29	1.94	0.26	0.12	0.45	2.83
Maximum	25.4	76.2	280	8.1	83.8	6.15	4.8	1.29	9.12	1.37	0.67	2.53	17.8
Count	104	115	115	115	103	115	12	110	110	110	110	114	114
Confidence Level(95.0%)	1.39813263	2.48159791	9.55796287	0.17899159	1.4443054	0.05086843	0.90722024	0.04009953	0.28554967	0.04761695	0.014963	0.0922102	0.5961959

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	10.4745653	0.00936606	0.02790632	0.31437745	1.53769163	0.2593882	0.00010523	0.00282606	0.06889791	5.8113E-05	0.00014404	0.0003985
Standard Error	0.3208088	0.00045018	0.00284234	0.01000536	0.08994175	0.0062264	9.9382E-06	0.00126429	0.00197939	2.7413E-06	6.6208E-06	4.8047E-05
Median	9.8	0.0088	0.01	0.314	1.45	0.246	0.0001	0.0015	0.07	0.00005	0.0001	0.0003
Mode	8.7	0.0125	0.005	0.385	0.45	0.256	0.0001	0.0011	0.07	0.00005	0.0001	0.0003
Standard Deviation	3.44029109	0.00474294	0.03034783	0.10445905	0.91722946	0.06677071	8.4329E-05	0.01355803	0.02122665	2.9397E-05	7.0068E-05	0.00050848
Sample Variance	11.8356028	2.2495E-05	0.00092099	0.01091169	0.84130989	0.00445833	7.1113E-09	0.00018382	0.00045057	8.6421E-10	4.9095E-09	2.5855E-07
Skewness	0.69416565	2.0433458	1.41982589	0.48463213	0.36388305	0.71434882	5.17587915	10.660206	-0.2732728	4.1557548	1.01033116	5.82375506
Range	21.865	0.0352	0.125	0.673	3.955	0.376	0.00065	0.146267	0.105	0.00015	0.00035	0.0038
Minimum	1.035	0.0014	0.005	0.028	0.105	0.13	0.00005	0.0004	0.025	0.00005	0.00005	0.0001
Maximum	22.9	0.0366	0.13	0.701	4.06	0.506	0.0007	0.146667	0.13	0.0002	0.0004	0.0039
Count	115	111	114	109	104	115	72	115	115	115	112	112
Confidence Level(95.0%)	0.63552003	0.00089215	0.00563118	0.01983234	0.17837808	0.01233446	1.9816E-05	0.00250455	0.00392117	5.4305E-06	1.312E-05	9.5207E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00083929	0.43537455	0.00528187	0.0013926	0.01681389	6.5625E-05	0.00025349	0.0004846	0.00011635	0.00585279	0.00043079	0.00173738
Standard Error	0.00015655	0.01665571	0.00027592	4.9252E-05	0.00058679	5.2691E-06	1.8841E-05	3.6327E-05	7.3587E-06	0.00019726	1.2133E-05	7.135E-05
Median	0.0004	0.3895	0.005	0.0013	0.01515	0.00005	0.0002	0.0004	0.0001	0.0056	0.0004	0.0017
Mode	0.0002	0.415	0.005	0.0013	0.0121	0.00005	0.0002	0.0001	0.0001	0.0063	0.0004	0.0016
Standard Deviation	0.00165675	0.17626743	0.00267511	0.0005189	0.00621002	5.5763E-05	0.0001994	0.00038445	5.3064E-05	0.0020876	0.0001284	0.0007551
Sample Variance	2.7448E-06	0.03107021	7.1562E-06	2.6926E-07	3.8564E-05	3.1095E-09	3.976E-08	1.478E-07	2.8158E-09	4.3581E-06	1.6487E-08	5.7017E-07
Skewness	3.99500784	0.83864449	2.25572278	1.70926946	1.1871125	4.27273074	4.7020271	1.78157339	1.34507669	2.22009806	0.61892816	2.31733465
Range	0.0092	0.81934	0.019334	0.00361	0.035	0.00035	0.0017	0.0021	0.00025	0.01656	0.000617	0.0057
Minimum	0.0001	0.16566	0.000666	0.00059	0.0076	0.00005	0.0001	0.0001	0.00005	0.0022	0.000183	0.0005
Maximum	0.0093	0.985	0.02	0.0042	0.0426	0.0004	0.0018	0.0022	0.0003	0.01876	0.0008	0.0062
Count	112	112	94	111	112	112	112	112	52	112	112	112
Confidence Level(95.0%)	0.00031021	0.03300438	0.00054792	9.7606E-05	0.00116277	1.0441E-05	3.7336E-05	7.1985E-05	1.4773E-05	0.00039088	2.4042E-05	0.00014139

Descriptive Statistics for Middle Brook- NF02YR0021

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.7541667	23.681356	33.254237	0.4101695	11.128039	6.3201695	2.0678571	1.1815094	2.4111321	0.4398113	0.2467925	1.1608966	3.3881034
Standard Error	1.0082328	0.2318638	1.3595912	0.0216698	0.353008	0.0265617	0.0641684	0.0146819	0.0410756	0.0045517	0.0041713	0.0654146	0.0576535
Median	5.95	23.7	30	0.38	11.08	6.3	2	1.17	2.35	0.43	0.25	1.06	3.265
Mode	0.1	23	40	0.25	13.6	6.33	1.9	1.16	2.32	0.42	0.26	1.04	3.65
Standard Deviation	6.9852415	1.7809794	10.443218	0.1664486	2.5209816	0.2040241	0.4801921	0.1068859	0.2990347	0.0331367	0.0303678	0.4981831	0.4390758
Sample Variance	48.793599	3.1718878	109.0608	0.0277051	6.3553481	0.0416258	0.2305844	0.0114246	0.0894218	0.001098	0.0009222	0.2481864	0.1927876
Skewness	0.3977417	0.3131214	-0.591346	1.1814965	-0.521658	0.7905844	0.3924788	0.2400825	2.4680888	1.0322276	0.0700765	6.1501997	0.5349895
Range	20.7	8.5	47.5	0.71	11.4	1.03	2.4	0.43	2.02	0.15	0.14	3.78	1.61
Minimum	0.1	19.7	2.5	0.2	4.5	5.89	1	0.99	1.91	0.38	0.18	0.85	2.75
Maximum	20.8	28.2	50	0.91	15.9	6.92	3.4	1.42	3.93	0.53	0.32	4.63	4.36
Count	48	59	59	59	51	59	56	53	53	53	53	58	58
Confidence Level(95.0%	2.0283008	0.4641254	2.7215154	0.0433767	0.7090378	0.0531689	0.1285962	0.0294614	0.0824241	0.0091336	0.0083704	0.1309906	0.1154491

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.7210345	0.0042516	0.0207759	0.1746964	1.7481354	0.0957793	0.0001406	0.0011085	0.0291525	5.508E-05	7.193E-05	0.0001911
Standard Error	0.1023539	0.0004167	0.003288	0.0050743	0.0523936	0.0064364	1.09E-05	5.768E-05	0.0013027	1.984E-06	4.516E-06	1.248E-05
Median	5.7	0.00335	0.01	0.171	1.73	0.089	0.0001	0.001	0.025	0.00005	0.00005	0.0002
Mode	5.9	0.0025	0.005	0.21	1.43	0.058	0.0001	0.0009	0.025	0.00005	0.00005	0.0002
Standard Deviation	0.7795043	0.0031186	0.0250403	0.0379727	0.4024432	0.0494391	7.555E-05	0.0004431	0.0100066	1.524E-05	3.409E-05	9.426E-05
Sample Variance	0.607627	9.726E-06	0.000627	0.0014419	0.1619605	0.0024442	5.708E-09	1.963E-07	0.0001001	2.323E-10	1.162E-09	8.885E-09
Skewness	0.4672234	3.0884925	2.169534	-0.301173	-0.167984	4.2054388	0.8345048	2.6279202	2.1115361	2.704889	1.9810908	1.5406113
Range	4.2	0.0199	0.115	0.178	1.57	0.351	0.00025	0.0025	0.035	0.00005	0.00015	0.00049
Minimum	4	0.0008	0.005	0.076	0.89	0.047	0.00005	0.0005	0.025	0.00005	0.00005	0.0001
Maximum	8.2	0.0207	0.12	0.254	2.46	0.398	0.0003	0.003	0.06	0.0001	0.0002	0.00059
Count	58	56	58	56	59	59	48	59	59	59	57	57
Confidence Level(95.0%	0.2049603	0.0008352	0.006584	0.0101691	0.1048772	0.0128839	2.194E-05	0.0001155	0.0026077	3.972E-06	9.046E-06	2.501E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0006786	0.1208474	0.0055688	0.001057	0.0134332	9.912E-05	0.0004596	0.000214	9.306E-05	0.0063719	0.0001342	0.0005988
Standard Error	0.0002278	0.0083394	0.0004364	2.476E-05	0.0007187	7.023E-06	4.695E-05	3.297E-05	6.653E-06	7.403E-05	1.395E-05	6.091E-05
Median	0.0004	0.12	0.005	0.0011	0.0117	0.0001	0.0002	0.0001	0.0001	0.0064	0.0001	0.0005
Mode	0.0004	0.102	0.005	0.001	0.0108	0.0001	0.0002	0.0001	0.0001	0.0066	0.0001	0.0003
Standard Deviation	0.0017196	0.0629608	0.0033236	0.0001869	0.0054262	5.303E-05	0.0003545	0.0002489	3.992E-05	0.0005589	0.0001053	0.0004598
Sample Variance	2.957E-06	0.0039641	1.105E-05	3.495E-08	2.944E-05	2.812E-09	1.257E-07	6.194E-08	1.593E-09	3.124E-07	1.109E-08	2.114E-07
Skewness	5.151853	4.6694117	3.0635511	-2.556881	1.8874438	1.6185431	0.7970672	2.7943844	1.3313754	0.1501268	4.7271091	1.9418417
Range	0.0101	0.4802	0.0175	0.00145	0.0291	0.00025	0.0009	0.0011	0.00015	0.0026	0.00075	0.0023
Minimum	0.0001	0.0408	0.0025	0.00005	0.0061	0.00005	0.0001	0.0001	0.00005	0.0052	0.00005	0.0001
Maximum	0.0102	0.521	0.02	0.0015	0.0352	0.0003	0.001	0.0012	0.0002	0.0078	0.0008	0.0024
Count	57	57	58	57	57	57	57	57	36	57	57	57
Confidence Level(95.0%	0.0004563	0.0167057	0.0008739	4.96E-05	0.0014398	1.407E-05	9.406E-05	6.604E-05	1.351E-05	0.0001483	2.794E-05	0.000122

Descriptive Statistics for Terra Nova River (@ Newtown Lake)- NF02YS0012

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.2729167	21.601307	96.078431	0.8992154	10.8482	5.8567319	2.788	1.0632027	1.5019331	0.763137	0.2095333	1.2153733	1.9826336
Standard Error	1.0965401	1.2369965	4.0645187	0.192423	0.2658342	0.0554192	0.2984024	0.0487496	0.052046	0.0430862	0.0102958	0.1175142	0.1036409
Median	4.1	20.8	100	0.56	10.6	5.89	2.9	1.03	1.52	0.77	0.2	1.04	1.983335
Mode	0.1	20.8	100	0.5	10.6	6.4	2.9	1	1.53	0.7	0.21	0.9	2.07
Standard Deviation	7.5970526	8.8339219	29.02647	1.3741754	1.8797315	0.3957723	1.4920121	0.3481416	0.3680207	0.3076971	0.0728027	0.8309506	0.732852
Sample Variance	57.715208	78.038176	842.53594	1.8883581	3.5333906	0.1566357	2.2261	0.1212026	0.1354393	0.0946775	0.0053002	0.6904789	0.537072
Skewness	0.4303885	2.5871817	0.9595794	4.7480718	0.3085477	-0.097185	0.951846	1.3262355	0.2103151	1.9659189	0.9066383	4.68514	0.5796283
Range	21.3	63.6	160	8.98	7.55	1.6	6.2	2.03	1.66	1.87	0.36	5.88	3.395
Minimum	0	2	40	0.02	7.3	5.07	0.9	0.51	0.8	0.33	0.08	0.36	0.605
Maximum	21.3	65.6	200	9	14.85	6.67	7.1	2.54	2.46	2.2	0.44	6.24	4
Count	48	51	51	51	50	51	25	51	50	51	50	50	50
Confidence Level(95.0%)	2.205952	2.4845816	8.1638295	0.3864932	0.5342135	0.1113128	0.6158722	0.0979165	0.1045903	0.0865412	0.0206903	0.2361534	0.2082741

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	9.5300655	0.0082497	0.0368831	0.2912691	1.7744693	0.1389016	0.0009054	0.0018802	0.025	0.0001091	0.0001793	0.0008389
Standard Error	0.3261317	0.0006163	0.0054227	0.0143407	0.1614192	0.0057787	0.0001056	0.0001017	1.38E-10	2.415E-05	2.025E-05	0.0003527
Median	9.4	0.0073	0.009	0.293	1.78	0.137	0.0007	0.002	0.025	0.00005	0.0001	0.0003
Mode	8.4	0.0049	0.005	0.338	1.86	0.151	0.0007	0.0023	0.025	0.00005	0.0001	0.0003
Standard Deviation	2.3290461	0.0043142	0.0383446	0.0983146	1.0707339	0.0412681	0.0005587	0.0007264	9.856E-10	0.0001724	0.0001432	0.002494
Sample Variance	5.4244556	1.861E-05	0.0014703	0.0096658	1.1464712	0.0017031	3.121E-07	5.276E-07	9.714E-19	2.974E-08	2.051E-08	6.22E-06
Skewness	0.059362	2.7005179	0.669989	1.4889775	0.6773256	2.1104401	1.2579678	0.471868	1.0305617	5.5201202	2.9501279	6.5816211
Range	10	0.0254	0.1075	0.55899	4.23	0.261	0.00245	0.0031	0	0.00115	0.00085	0.0176
Minimum	4.2	0.0037	0.0025	0.132	0.32	0.074	0.00005	0.0007	0.025	0.00005	0.00005	0.0001
Maximum	14.2	0.0291	0.11	0.69099	4.55	0.335	0.0025	0.0038	0.025	0.0012	0.0009	0.0177
Count	51	49	50	47	44	51	28	51	51	51	50	50
Confidence Level(95.0%)	0.655055	0.0012392	0.0108974	0.0288662	0.3255326	0.0116068	0.0002166	0.0002043	2.772E-10	4.85E-05	4.07E-05	0.0007088

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0011739	0.4841065	0.005187	0.0010801	0.0617798	0.0001008	0.0005612	0.000406	0.0001792	0.0065428	0.000219	0.0027402
Standard Error	0.0003265	0.0218932	0.0004402	7.327E-05	0.0113098	1.38E-05	2.934E-05	6.142E-05	3.068E-05	0.0002874	1.818E-05	0.0008046
Median	0.0004	0.4695	0.005	0.001	0.03805	0.00005	0.000545	0.0003	0.0001	0.006533	0.0002	0.0015
Mode	0.0001	0.448	0.005	0.001	0.114	0.00005	0.00059	0.0001	0.0001	0.0054	0.0002	0.0007
Standard Deviation	0.0023088	0.1548085	0.0028189	0.0005129	0.0799724	9.757E-05	0.0002074	0.0004343	0.0001503	0.0020323	0.0001285	0.0056897
Sample Variance	5.331E-06	0.0239657	7.946E-06	2.631E-07	0.0063956	9.521E-09	4.303E-08	1.886E-07	2.259E-08	4.13E-06	1.652E-08	3.237E-05
Skewness	3.4817262	2.1175326	1.1361894	2.1243552	5.4097477	3.1067819	1.2307001	2.1876719	1.7278565	0.9590789	2.1200439	5.8524718
Range	0.0114	1.033	0.0105	0.003	0.552	0.00054	0.0013	0.002	0.0004	0.0113	0.00075	0.0393
Minimum	0.0001	0.197	0.0025	0.0004	0.015	0.00005	0.0001	0.0001	0.0001	0.0033	0.00005	0.0003
Maximum	0.0115	1.23	0.013	0.0034	0.567	0.00059	0.0014	0.0021	0.0005	0.0146	0.0008	0.0396
Count	50	50	41	49	50	50	50	50	24	50	50	50
Confidence Level(95.0%)	0.0006562	0.0439961	0.0008897	0.0001473	0.0227279	2.773E-05	5.896E-05	0.0001234	6.347E-05	0.0005776	3.653E-05	0.001617

Descriptive Statistics for Terra Nova River (@ Terra Nova)- NF02YS0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.38235294	30.2777776	49.7454497	0.55703703	11.575098	6.252169	2.7142361	1.47339163	1.68974333	0.44105258	0.24012612	1.38677575	5.36928967
Standard Error	0.92667953	10.9876992	5.86852659	0.08339316	0.24821486	0.10046259	0.77853343	0.33581978	0.04013761	0.02977231	0.00592179	0.31686309	3.12796
Median	4.6	18.8	43	0.39	11.7	6.14	1.9	1.083333	1.63	0.4	0.23	1.03	2.236667
Mode	0.1	17.9	50	0.33	13.2	6.19	2	1.05	1.5	0.42	0.23	1.03	1.85
Standard Deviation	6.61781553	87.2121584	46.5799858	0.66191265	1.77260867	0.79739711	5.39383786	2.53538373	0.28943645	0.22477604	0.04270263	2.47477986	24.4301486
Sample Variance	43.7954824	7605.96058	2169.69508	0.43812836	3.14214149	0.63584215	29.0934868	6.42817063	0.08377346	0.05052427	0.00182351	6.12453536	596.832159
Skewness	0.66585045	7.91876331	7.05213821	3.764019	-0.0435455	7.06484228	6.75376867	7.45241534	2.21622011	6.52508277	1.49929522	7.68734416	7.80421956
Range	19.9	697.1	395	3.97	7.4	6.45866	38.3	19.45	1.87334	1.72	0.216666	19.56	191.58
Minimum	0	13.9	5	0.03	8.2	5.79	0.7	0.75	1.19666	0.31	0.17	0.74	1.42
Maximum	19.9	711	400	4	15.6	12.24666	39	20.2	3.07	2.03	0.386666	20.3	193
Count	51	63	63	63	51	63	48	57	52	57	52	61	61
Confidence Level(95.0%)	1.86129137	21.9640734	11.7310046	0.16670036	0.49855443	0.20082164	1.56620577	0.67272741	0.08057956	0.05964107	0.01188848	0.63382035	6.25684954

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	6.07798921	0.0047298	0.08430546	0.24882734	1.96345025	0.11939613	0.00022168	0.00229627	0.02833333	7.381E-05	9.3003E-05	0.00036363
Standard Error	0.14393099	0.00030808	0.03632477	0.03512958	0.09461641	0.00671695	1.965E-05	0.00085599	0.00112004	7.3199E-06	7.5451E-06	7.1545E-05
Median	6	0.0041	0.05	0.2025	1.92	0.101	0.0002	0.0014	0.025	0.00005	0.0001	0.0002
Mode	6	0.0038	0.05	0.138	1.8	0.095	0.0002	0.0012	0.025	0.00005	0.00005	0.0002
Standard Deviation	1.14241685	0.00240617	0.28370555	0.2675389	0.7143382	0.0533141	0.00012582	0.00679419	0.00889001	5.81E-05	5.941E-05	0.00056334
Sample Variance	1.30511625	5.7896E-06	0.08048884	0.07157706	0.51027907	0.00284239	1.5832E-08	4.6161E-05	7.9032E-05	3.3756E-09	3.5296E-09	3.1736E-07
Skewness	0.46100371	2.58417615	7.65924475	7.05435677	2.59797363	2.22762428	1.03281838	7.86159739	2.39262886	4.07278941	2.76036656	4.67401946
Range	4.9	0.0159	2.245	2.067	4.78	0.267	0.00054	0.0544	0.035	0.00035	0.00035	0.0037
Minimum	3.9	0.0012	0.005	0.133	0.8	0.063	0.00005	0.0008	0.025	0.00005	0.00005	0.0001
Maximum	8.8	0.0171	2.25	2.2	5.58	0.33	0.00059	0.0552	0.06	0.0004	0.0004	0.0038
Count	63	61	61	58	57	63	41	63	63	63	62	62
Confidence Level(95.0%)	0.28771364	0.00061625	0.07266034	0.0703458	0.18953931	0.01342697	3.9715E-05	0.00171109	0.00223892	1.4632E-05	1.5087E-05	0.00014306

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00102111	0.24758031	0.00510377	0.00071248	0.03021627	9.6226E-05	0.00029314	0.00045599	8.6957E-05	0.00705339	0.00019485	0.00192346
Standard Error	0.00023482	0.05071582	0.00041194	3.8783E-05	0.00477091	1.0093E-05	6.3021E-05	7.1159E-05	4.6809E-06	0.00122385	2.0451E-05	0.00059301
Median	0.0004	0.172	0.005	0.0007	0.02115	0.000083	0.0002	0.0002	0.0001	0.0057	0.000183	0.001
Mode	0.0002	0.124	0.005	0.0007	0.0168	0.00005	0.0002	0.0001	0.0001	0.0052	0.0001	0.00059
Standard Deviation	0.00184896	0.3993368	0.00299897	0.0003029	0.03756618	7.9473E-05	0.00050021	0.00056031	2.2449E-05	0.00963661	0.00016103	0.00466936
Sample Variance	3.4186E-06	0.15946988	8.9938E-06	9.1751E-08	0.00141122	6.3159E-09	2.5021E-07	3.1394E-07	5.0395E-10	9.2864E-05	2.593E-08	2.1803E-05
Skewness	3.39920341	7.0768902	2.65162826	4.67573708	5.27748365	3.09055102	6.81861817	2.4686627	-1.1666714	7.74269785	2.51882723	6.98107543
Range	0.00949	3.14591	0.0175	0.00265	0.2748	0.00045	0.0039	0.0029	0.00005	0.077	0.00085	0.0365
Minimum	0.0001	0.08409	0.0025	0.00005	0.0072	0.00005	0.0001	0.0001	0.00005	0.0043	0.00005	0.0001
Maximum	0.00959	3.23	0.02	0.0027	0.282	0.0005	0.004	0.003	0.0001	0.0813	0.0009	0.0366
Count	62	62	53	61	62	62	63	62	23	62	62	62
Confidence Level(95.0%)	0.00046955	0.10141259	0.00082662	7.7578E-05	0.00954003	2.0182E-05	0.00012598	0.00014229	9.7076E-06	0.00244724	4.0894E-05	0.0011656

Descriptive Statistics for Terra Nova River (@ ES Spencer Bridge)- NF02YS0011

	TEMPI	CONDL	COLOUR	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.3867925	22.165079	44.025926	0.51	11.448727	6.0988889	1.8624	1.0924995	2.3285714	0.3691667	0.2475	1.1373279	3.2840984
Standard Error	0.9395018	1.3852048	2.180504	0.0675733	0.3419975	0.031921	0.1579715	0.0378718	0.2547463	0.0091667	0.0061118	0.0620312	0.354421
Median	4.1	20	40	0.4	12.1	6.11	1.65	1.02	1.835	0.36	0.245	1.03	2.43
Mode	0.1	17.5	40	0.22	13.2	6.01	1.7	1.2	1.66	0.35	0.26	0.9	1.88
Standard Deviation	6.839676	10.994722	17.307214	0.5363467	2.5363214	0.2533652	1.117027	0.2933539	1.9063467	0.0710047	0.0457364	0.484479	2.7681163
Sample Variance	46.781168	120.88392	299.53966	0.2876677	6.4329261	0.0641939	1.2477492	0.0860565	3.6341579	0.0050417	0.0020918	0.2347199	7.6624679
Skewness	0.6331893	5.0965842	1.0485094	5.1515487	-0.655773	-0.164357	4.1623014	1.8542966	4.8160528	0.5245986	0.2786239	3.8666425	4.2880243
Range	20.2	80.6	90	4.07	10.91	1.63	7.6	1.95	12.5	0.45	0.26	3.24	17.99
Minimum	0	13.2	10	0.03	4.4	5.28	0.7	0.31	1.4	0.15	0.11	0.67	1.61
Maximum	20.2	93.8	100	4.1	15.31	6.91	8.3	2.26	13.9	0.6	0.37	3.91	19.6
Count	53	63	63	63	55	63	50	60	56	60	56	61	61
Confidence Level(95.0%)	1.8852469	2.7689819	4.3587606	0.135077	0.6856643	0.0638091	0.3174554	0.0757814	0.5105229	0.0183425	0.0122483	0.1240808	0.7089473

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.5868254	0.005523	0.0512131	0.1998136	2.0384211	0.1535868	0.0001561	0.0024476	0.0141667	9.603E-05	0.0001129	0.0003287
Standard Error	0.1777397	0.0005993	0.0061618	0.0077647	0.0755509	0.0162394	1.534E-05	0.0006309	0.0025242	1.326E-05	1.336E-05	4.38E-05
Median	5.7	0.0043	0.04	0.195	2.15	0.11	0.0001	0.0016	0.0025	0.00005	0.0001	0.0002
Mode	4.9	0.0035	0.005	0.183	2.49	0.132	0.0001	0.0012	0.0025	0.00005	0.00005	0.0002
Standard Deviation	1.4107649	0.0046809	0.0481249	0.0596419	0.5703971	0.1288962	9.823E-05	0.0050078	0.0200353	0.0001052	0.0001052	0.0003449
Sample Variance	1.9902575	2.191E-05	0.002316	0.0035572	0.3253528	0.0166142	9.649E-09	2.508E-05	0.0004014	1.107E-08	1.106E-08	1.19E-07
Skewness	0.0346473	3.0493228	2.8521239	1.1137575	-0.288301	2.7327553	1.5265379	7.6543896	1.3807322	3.8930366	2.3447021	2.7808662
Range	9.7	0.0273	0.305	0.38	2.4	0.657	0.00045	0.0403	0.0675	0.00065	0.00045	0.0017
Minimum	1.1	0.0013	0.005	0.067	0.81	0.05	0.00005	0.0008	0.0025	0.00005	0.00005	0.0001
Maximum	10.8	0.0286	0.31	0.447	3.21	0.707	0.0005	0.0411	0.07	0.0007	0.0005	0.0018
Count	63	61	61	59	57	63	41	63	63	63	62	62
Confidence Level(95.0%)	0.3552961	0.0011988	0.0123253	0.0155427	0.1513466	0.032462	3.101E-05	0.0012612	0.0050458	2.65E-05	2.671E-05	8.759E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0011332	0.2617419	0.0049338	0.000748	0.0340544	7.339E-05	0.0002531	0.0004673	8.654E-05	0.0070274	0.0002805	0.0029581
Standard Error	0.0002589	0.0381381	0.0002984	3.287E-05	0.0096586	4.259E-06	2.1E-05	7.769E-05	8.113E-06	0.0015276	3.855E-05	0.0007654
Median	0.0005	0.1805	0.005	0.0007	0.01615	0.00005	0.0002	0.0002	0.0001	0.0054	0.0002	0.0011
Mode	0.0002	0.125	0.005	0.0007	0.00959	0.00005	0.0001	0.0001	0.0001	0.0048	0.0002	0.0007
Standard Deviation	0.0020383	0.3002995	0.0021725	0.0002567	0.0760522	3.353E-05	0.0001653	0.0006117	4.137E-05	0.0120283	0.0003035	0.0060269
Sample Variance	4.155E-06	0.0901798	4.72E-06	6.59E-08	0.0057839	1.124E-09	2.734E-08	3.742E-07	1.712E-09	0.0001447	9.214E-08	3.632E-05
Skewness	3.9007375	4.0300947	1.0717637	2.3989734	5.7993527	1.8059831	1.3027931	2.572667	1.4788174	7.7427492	2.9208527	4.6292387
Range	0.0122	1.9689	0.0085	0.0019	0.5475	0.00015	0.0007	0.0031	0.00015	0.0974	0.00165	0.0382
Minimum	0.0001	0.0611	0.0025	0.0002	0.0055	0.00005	0.0001	0.0001	0.00005	0.0023	0.00005	0.0004
Maximum	0.0123	2.03	0.011	0.0021	0.553	0.0002	0.0008	0.0032	0.0002	0.0997	0.0017	0.0386
Count	62	62	53	61	62	62	62	62	26	62	62	62
Confidence Level(95.0%)	0.0005176	0.0762618	0.0005988	6.575E-05	0.0193137	8.516E-06	4.199E-05	0.0001554	1.671E-05	0.0030546	7.709E-05	0.0015306

Descriptive Statistics for Bread Cove Brook- NF02YS0010

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.49680851	28.2018151	44.0857755	0.48443851	11.5473684	8.29135178	3.09157884	1.61950429	2.86603881	0.4612371	0.20168307	1.21832666	4.19592406
Standard Error	0.77665912	0.99055441	1.69006464	0.03360061	0.21406136	0.02591293	0.17468716	0.05433881	0.13159191	0.03642315	0.00427869	0.02786866	0.23611532
Median	4.6	25.5	40	0.4	11.8	6.26	2.6	1.47	2.53	0.4	0.19	1.17	3.51
Mode	0.1	24.3	40	0.3	13.6	6.26	3.2	1.3	2.54	0.37	0.18	1.02	3.51
Standard Deviation	7.52998953	9.95494863	16.9849395	0.33768198	2.08641207	0.2604217	1.70263983	0.54609831	1.32248229	0.38604816	0.04300027	0.28007661	2.37292961
Sample Variance	56.7007424	99.1010021	288.488168	0.11402912	4.35311534	0.06781946	2.89898237	0.29822336	1.7489594	0.13399126	0.00184902	0.07844291	5.63079495
Skewness	0.64951791	3.79236148	1.75448306	3.99272952	-0.4977732	1.04741219	1.91872483	1.9867353	5.56019058	7.62278721	0.83481337	1.5529278	5.79298436
Range	25.5	80	115	2.835	10.9	1.55	10.5	3.52	11.83	3.5133	0.22333	1.657	21.44
Minimum	0.1	15.6	5	0.015	4.6	5.75	0.8	0.78	1.67	0.22	0.11	0.663	2.16
Maximum	25.6	95.6	120	2.85	15.5	7.3	11.3	4.3	13.5	3.7333	0.33333	2.32	23.6
Count	94	101	101	101	95	101	95	101	101	101	101	101	101
Confidence Level(95.0%)	1.54228954	1.96523196	3.3530405	0.06666267	0.42502364	0.05141052	0.34684527	0.10780667	0.26107462	0.07226251	0.00848879	0.05529064	0.46844613

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	6.16095743	0.00401229	0.01478284	0.17571537	1.89722222	0.0906788	9.7121E-05	0.00444576	0.02514851	0.00005416	8.62E-05	0.00022811
Standard Error	0.17290388	0.00023865	0.00192373	0.00461394	0.06626863	0.00786289	1.6703E-05	0.00065372	0.00014851	1.8243E-06	9.8894E-06	3.4778E-05
Median	5.8	0.0037	0.005	0.174	1.89	0.081	0.0000665	0.0031	0.025	0.00005	0.00005	0.0001
Mode	5.2	0.0031	0.005	0.171	1.11	0.083	0.00005	0.003	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.7376625	0.00238646	0.01933325	0.04497112	0.6286794	0.07862894	0.0001272	0.00653722	0.00149256	1.8243E-05	9.79E-05	0.00034429
Sample Variance	3.01947098	5.6952E-06	0.00037377	0.0020224	0.39523778	0.00618251	1.6181E-08	4.2735E-05	2.2277E-06	3.328E-10	9.5844E-09	1.1853E-07
Skewness	2.98078246	3.57500527	2.59787936	1.18785356	0.56695963	7.82218452	6.5092375	6.62448513	10.0498756	5.9902921	4.94271828	4.64183175
Range	12.8	0.01921	0.1095	0.267	3.22	0.77433	0.00095	0.05463	0.015	0.00015	0.000633	0.0025
Minimum	3	0.00059	0.0005	0.084	0.88	0.029	0.00005	0.0007	0.025	0.00005	0.00005	0.0001
Maximum	15.8	0.0198	0.11	0.351	4.1	0.80333	0.001	0.05533	0.04	0.0002	0.000683	0.0026
Count	101	100	101	95	90	100	58	100	101	100	98	98
Confidence Level(95.0%)	0.34303642	0.00047352	0.00381663	0.00916108	0.13167428	0.01560169	3.3447E-05	0.00129713	0.00029465	3.6198E-06	1.9628E-05	6.9025E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00095882	0.21534095	0.00491139	0.00041041	0.02074073	6.9041E-05	0.00016652	0.00020836	9.963E-05	0.008149	0.00022165	0.00139694
Standard Error	0.0001942	0.01201802	0.00031409	3.2916E-05	0.00318505	8.0319E-06	2.7925E-05	2.2795E-05	6.7238E-06	0.00026428	3.2438E-05	0.0002635
Median	0.0004	0.184	0.005	0.0004	0.0143	0.00005	0.0001	0.0001	0.0001	0.007463	0.0002	0.00059
Mode	0.0002	0.128	0.005	0.0004	0.0114	0.00005	0.0001	0.0001	0.0001	0.0072	0.0002	0.0005
Standard Deviation	0.00192248	0.11897235	0.00279165	0.00032418	0.03153037	7.9512E-05	0.00027644	0.00022566	4.5603E-05	0.00261622	0.00032112	0.00260849
Sample Variance	3.6959E-06	0.01415442	7.7933E-06	1.051E-07	0.00099416	6.3221E-09	7.6419E-08	5.0921E-08	2.0796E-09	6.8446E-06	1.0312E-07	6.8042E-06
Skewness	3.92633184	2.74661948	2.62594913	6.78444691	7.96346715	6.2898436	8.1894235	2.97060986	1.10597742	1.98271682	5.96381098	2.98621259
Range	0.0115	0.6859	0.0175	0.0031	0.2988	0.00065	0.0026	0.0012	0.00015	0.0171	0.00228	0.0099
Minimum	0.0001	0.0921	0.0025	0.0001	0.0075	0.00005	0.0001	0.0001	0.00005	0.004	0.00005	0.0001
Maximum	0.0116	0.778	0.02	0.0032	0.3063	0.0007	0.0027	0.0013	0.0002	0.0211	0.00233	0.01
Count	98	98	79	97	98	98	98	98	46	98	98	98
Confidence Level(95.0%)	0.00038543	0.02385243	0.0006253	6.5338E-05	0.00632144	1.5941E-05	5.5423E-05	4.5241E-05	1.3542E-05	0.00052452	8.4381E-05	0.00052297

Descriptive Statistics for South West Brook (@ Terra Nova National Park)- NF02YS0005

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.0744898	34.4473684	105.342105	0.77938596	11.3780808	6.19719298	4.56790698	2.15574074	3.59480769	0.53499981	0.30951923	1.10998188	4.86294643
Standard Error	0.80192582	0.93882283	2.66181048	0.08887952	0.21557466	0.03582278	0.25518133	0.0660762	0.12105577	0.01194663	0.00724244	0.03910597	0.18109792
Median	2.95	32.75	100	0.5	11.9	6.23	4.3	2.145	3.45	0.545	0.3	1.045	4.56
Mode	0.1	31.6	100	0.37	13.8	6.23	4.6	2.3	3	0.56	0.29	1.06	4.9
Standard Deviation	7.93866061	10.0238848	28.4203588	0.94897363	2.14494074	0.3824826	2.36645434	0.68668403	1.23453146	0.12415297	0.07385869	0.41385865	1.91656019
Sample Variance	63.0223322	100.478267	807.716796	0.90055095	4.60077077	0.14629294	5.60010616	0.47153496	1.52406792	0.01541396	0.00545511	0.17127898	3.67320295
Skewness	0.7667103	3.0814629	0.74570784	4.38529052	-0.8549293	-0.1381844	1.23118975	0.71608347	4.00200983	0.00326649	0.70954413	3.0253335	3.87581101
Range	26.2	72.2	190	7.07	10.7	2.11	12.4	3.45	9.32	0.58	0.4	3.2	14.89
Minimum	0	18.3	10	0.03	4.1	5.09	0.6	0.9	1.58	0.25	0.15	0.63	1.41
Maximum	26.2	90.5	200	7.1	14.8	7.2	13	4.35	10.9	0.83	0.55	3.83	16.3
Count	98	114	114	114	99	114	86	108	104	108	104	112	112
Confidence Level(95.0%)	1.59159988	1.85997664	5.27352461	0.1760863	0.42780088	0.07097136	0.50736916	0.13098845	0.24008535	0.02368281	0.01436366	0.07749106	0.3588575

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	10.4408772	0.0059783	0.02762045	0.25038889	4.71815534	0.20646491	0.00011714	0.00288684	0.02675439	8.2456E-05	0.00014369	0.00032919
Standard Error	0.22637273	0.00023694	0.00362194	0.00725077	0.15078851	0.00516829	7.8736E-06	6.3333E-05	0.00060075	3.9863E-06	6.9548E-06	2.2388E-05
Median	10	0.0055	0.008495	0.248	4.79	0.199	0.0001	0.00275	0.025	0.0001	0.0001	0.0003
Mode	9	0.0059	0.005	0.187	5.55	0.202	0.0001	0.0027	0.025	0.00005	0.0001	0.0003
Standard Deviation	2.41699937	0.00250755	0.03833106	0.07535224	1.53033621	0.05518227	6.5875E-05	0.00067621	0.00641426	4.2584E-05	7.3273E-05	0.00023587
Sample Variance	5.84188595	6.2878E-06	0.00146927	0.00567796	2.34192892	0.00304508	4.3395E-09	4.5726E-07	4.1143E-05	1.8134E-09	5.369E-09	5.5637E-08
Skewness	1.12974437	0.9900544	2.71772768	0.95622087	0.21530009	1.90144737	1.36984912	1.79517586	3.41037216	2.14635751	1.05192934	3.33157254
Range	12.6	0.01541	0.2375	0.574	7.83	0.449	0.00025	0.0045	0.025	0.00025	0.00035	0.0015
Minimum	6	0.00059	0.0025	0.026	0.93	0.069	0.00005	0.0016	0.025	0.00005	0.00005	0.0001
Maximum	18.6	0.016	0.24	0.6	8.76	0.518	0.0003	0.0061	0.05	0.0003	0.0004	0.0016
Count	114	112	112	108	103	114	70	114	114	114	111	111
Confidence Level(95.0%)	0.44848504	0.00046952	0.00717712	0.01437382	0.29908814	0.01023932	1.5707E-05	0.00012547	0.00119019	7.9016E-06	1.3783E-05	4.4368E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00068782	0.62001784	0.00455079	0.00060709	0.02482703	7.3874E-05	0.00015946	0.00033099	0.00010306	0.00900901	0.00050883	0.00118865
Standard Error	0.00010626	0.02448531	0.00025441	2.0883E-05	0.00150508	4.652E-06	9.4378E-06	6.3651E-05	6.4233E-06	0.00023239	1.7777E-05	0.00014055
Median	0.0003	0.585	0.005	0.00059	0.0204	0.00005	0.0001	0.0001	0.0001	0.0091	0.0005	0.0009
Mode	0.0001	0.508	0.0025	0.0007	0.0206	0.00005	0.0001	0.0001	0.0001	0.0079	0.0004	0.0009
Standard Deviation	0.00111447	0.2579688	0.00246659	0.00021902	0.01585705	4.9012E-05	9.9433E-05	0.0006706	4.4963E-05	0.00244833	0.00018729	0.00148076
Sample Variance	1.242E-06	0.0665479	6.0841E-06	4.7969E-08	0.00025145	2.4021E-09	9.887E-09	4.4971E-07	2.0217E-09	5.9943E-06	3.5078E-08	2.1927E-06
Skewness	3.18256602	2.05852966	1.88103333	0.10258365	4.09842832	3.63207239	2.58652064	8.0248451	1.13075604	0.53609645	1.07584636	5.97070449
Range	0.0058	1.68	0.014167	0.00115	0.1072	0.00035	0.0006	0.0066	0.00015	0.0133	0.001	0.0121
Minimum	0.0001	0.14	0.0025	0.00005	0.0118	0.00005	0.0001	0.0001	0.00005	0.004	0.0001	0.0001
Maximum	0.0059	1.82	0.016667	0.0012	0.119	0.0004	0.0007	0.0067	0.0002	0.0173	0.0011	0.0122
Count	110	111	94	110	111	111	111	111	49	111	111	111
Confidence Level(95.0%)	0.0002106	0.04852417	0.00050521	4.1389E-05	0.00298273	9.2191E-06	1.8703E-05	0.00012614	1.2915E-05	0.00046053	3.523E-05	0.00027854

Descriptive Statistics for Southern Bay River- NF02ZJ0024

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.2427083	31.855198	54.133025	0.7317769	11.61433	6.3825688	3.9101281	1.9981904	3.1264521	0.5490156	0.2613037	1.5772669	4.3876166
Standard Error	0.7379882	0.6395309	1.8876604	0.0634815	0.2323256	0.028336	0.1950602	0.0446554	0.0724884	0.0106296	0.0043943	0.047328	0.1404476
Median	4.5	30.5	60	0.591665	12.23	6.37	3.55	1.95	3.03	0.53	0.26	1.46	4.19667
Mode	0.1	25.8	60	0.71	13.8	6.53	2.7	1.84	3.03	0.5	0.25	1.22	3.03
Standard Deviation	7.2307784	6.6768988	19.617142	0.6597188	2.2881419	0.2958363	1.989231	0.4575812	0.7284997	0.108921	0.0441623	0.4895646	1.4528016
Sample Variance	52.284157	44.580978	384.83226	0.4352288	5.2355936	0.0875191	3.9570401	0.2093805	0.5307118	0.0118638	0.0019503	0.2396735	2.1106324
Skewness	0.5706014	1.6202731	-0.451809	4.8906724	-0.665572	0.4328173	1.7607322	0.8603623	2.7707634	0.6382142	1.9475717	2.6123794	2.1855741
Range	25.2	45.33333	95	5.565	13.3	1.54	13.2	2.3	5.68	0.49	0.29	3.1057	10.58
Minimum	0	20.96667	5	0.135	4.1	5.68	0.5	1.2	2.04	0.35	0.17	0.9143	2.02
Maximum	25.2	66.3	100	5.7	17.4	7.22	13.7	3.5	7.72	0.84	0.46	4.02	12.6
Count	96	109	108	108	97	109	104	105	101	105	101	107	107
Confidence Level(95.0%)	1.4650908	1.2676596	3.742069	0.1258447	0.4611631	0.0561667	0.3868555	0.0885531	0.143815	0.0210789	0.0087182	0.0938324	0.2784512

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	7.3136697	0.0060593	0.0365245	0.2453897	2.0154123	0.1503421	9.846E-05	0.0056829	0.007844	5.413E-05	0.0001206	0.0003016
Standard Error	0.1859257	0.0004985	0.0035333	0.0060068	0.0915479	0.0057439	6.483E-06	0.0004023	0.0012868	1.324E-06	6.721E-06	7.182E-05
Median	7.6	0.00523	0.02666	0.244	2.08	0.156	0.0001	0.0053	0.0025	0.00005	0.0001	0.0002
Mode	7.9	0.005	0.005	0.186	2.43	0.133	0.0001	0.0065	0.0025	0.00005	0.0001	0.0001
Standard Deviation	1.9411215	0.0051804	0.0365482	0.0609627	0.901642	0.0599682	5.227E-05	0.0042005	0.0134348	1.383E-05	6.92E-05	0.0007395
Sample Variance	3.7679528	2.684E-05	0.0013358	0.0037165	0.8129583	0.0035962	2.732E-09	1.764E-05	0.0001805	1.911E-10	4.788E-09	5.468E-07
Skewness	0.1355247	6.5379356	1.3263501	0.0617975	-0.07733	-0.178762	1.5870042	8.6237931	2.4534223	3.075824	1.3812275	7.3571157
Range	11.75	0.0511	0.1565	0.293	3.44333	0.279	0.00025	0.04387	0.0475	0.00005	0.00035	0.0067
Minimum	2.75	0.0002	0.004	0.106	0.17667	0.011	0.00005	0.00263	0.0025	0.00005	0.00005	0.0001
Maximum	14.5	0.0513	0.1605	0.399	3.62	0.29	0.0003	0.0465	0.05	0.0001	0.0004	0.0068
Count	109	108	107	103	97	109	65	109	109	109	106	106
Confidence Level(95.0%)	0.3685366	0.0009882	0.007005	0.0119145	0.1817212	0.0113854	1.295E-05	0.0007975	0.0025507	2.625E-06	1.333E-05	0.0001424

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000915	0.256585	0.0048674	0.0004044	0.0405147	6.376E-05	0.0001623	0.0002759	9.958E-05	0.0102308	0.0001975	0.0013841
Standard Error	0.000146	0.009947	0.0002426	1.437E-05	0.0046102	7.106E-06	1.154E-05	3.424E-05	6.932E-06	0.0002054	1.416E-05	0.0002954
Median	0.0004	0.2515	0.005	0.0004	0.030525	0.00005	0.0001	0.00018	0.0001	0.01023	0.0002	0.0009
Mode	0.0003	0.33	0.005	0.0004	0.0148	0.00005	0.0001	0.0001	0.0001	0.0102	0.0002	0.0009
Standard Deviation	0.0015033	0.1024103	0.0022757	0.0001473	0.0474651	7.418E-05	0.0001188	0.0003525	4.802E-05	0.0021151	0.0001458	0.0030416
Sample Variance	2.26E-06	0.0104879	5.179E-06	2.168E-08	0.0022529	5.503E-09	1.412E-08	1.243E-07	2.306E-09	4.474E-06	2.126E-08	9.251E-06
Skewness	3.7757626	0.35155	2.5513292	-0.475921	5.2124257	9.286053	3.9716734	4.9858847	1.0599571	0.2984569	4.5657111	7.7182436
Range	0.0101	0.5887	0.0155	0.00065	0.38353	0.00075	0.0009	0.0029	0.00015	0.0098	0.00128	0.0287
Minimum	0.0001	0.0123	0.0025	0.00005	0.0048	0.00005	0.0001	0.0001	0.00005	0.006	0.00005	0.0001
Maximum	0.0102	0.601	0.018	0.0007	0.38833	0.0008	0.001	0.003	0.0002	0.0158	0.00133	0.0288
Count	106	106	88	105	106	109	106	106	48	106	106	106
Confidence Level(95.0%)	0.0002895	0.019723	0.0004822	2.85E-05	0.0091412	1.408E-05	2.288E-05	6.789E-05	1.394E-05	0.0004073	2.808E-05	0.0005858

Descriptive Statistics for Bay du Nord River- NF02ZF0020

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.56969697	20.2541667	33.6342592	0.51869444	11.8141176	6.1538425	1.95645161	1.0652775	1.60733314	0.38527778	0.20985714	1.21404771	2.41704771
Standard Error	1.22779123	1.37364417	1.60815024	0.07669315	0.34511491	0.03137254	0.29012179	0.03069693	0.04521391	0.00805473	0.00495138	0.04222219	0.11892581
Median	5.8	18.85	30	0.415	12.24	6.215	1.5	1.045	1.57	0.375	0.21	1.16	2.13
Mode	0.1	19.3	30	0.3	13.9	6.22	1.4	1	1.3	0.36	0.22	1.23	2.13
Standard Deviation	7.05312364	8.24186504	9.64890143	0.46015691	2.01234842	0.18823521	1.61532979	0.18418157	0.26748908	0.04832841	0.02929278	0.24978984	0.70357461
Sample Variance	49.746553	67.9283393	93.1012989	0.21174622	4.04954617	0.0354325	2.60929032	0.03392285	0.07155041	0.00233563	0.00085807	0.06239497	0.49501723
Skewness	0.39287736	5.16943899	-0.0261151	4.73168946	-0.0915647	-0.6878002	3.24146363	2.19904039	1.51061256	0.40613336	0.3160094	1.70995872	2.2671532
Range	20.3	51.8	42.5	2.83	7.69	0.83	6.9	1.05	1.26	0.21	0.14	1.265	3.67
Minimum	0	14.2	7.5	0.17	8.11	5.59	0.9	0.8	1.3	0.29	0.15	0.76	1.59
Maximum	20.3	66	50	3	15.8	6.42	7.8	1.85	2.56	0.5	0.29	2.025	5.26
Count	33	36	36	36	34	36	31	36	35	36	35	35	35
Confidence Level(95.0%)	2.50092678	2.78864933	3.26472254	0.15569556	0.70214211	0.06368971	0.59250714	0.06231815	0.09188565	0.016352	0.01006242	0.08580576	0.24168618

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.11444444	0.02476667	0.02566657	0.16008576	0.89485714	0.08971222	0.00045333	0.00178111	0.025	0.0000625	7.9143E-05	0.00026
Standard Error	0.16720363	0.02058025	0.00468732	0.00628763	0.07402489	0.00416146	0.00013786	6.6282E-05	0	8.061E-06	6.6024E-06	4.7976E-05
Median	4.85	0.0039	0.01	0.1565	1.03	0.086745	0.0003	0.0017	0.025	0.00005	0.00005	0.0001
Mode	4.7	0.0035	0.005	0.138	1.22	0.111	0.0003	0.0014	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.00322179	0.12348153	0.02773055	0.03611968	0.43793715	0.02496875	0.00075509	0.00039769	0	4.8366E-05	3.906E-05	0.00028383
Sample Variance	1.00645397	0.01524769	0.00076898	0.00130463	0.19176895	0.00062344	5.7017E-07	1.5816E-07	0	2.3393E-09	1.5257E-09	8.0559E-08
Skewness	0.59174217	5.99800329	1.32605842	-0.0711064	-0.3924673	0.42696049	5.1018916	1.51373578	-1.0440141	4.27391909	1.7359371	2.36726864
Range	4.9	0.7437	0.095	0.158	1.525	0.096	0.00426	0.0018	0	0.00025	0.00015	0.0012
Minimum	2.9	0.0013	0.005	0.069	0.1	0.046	0.0001	0.0013	0.025	0.00005	0.00005	0.0001
Maximum	7.8	0.745	0.1	0.227	1.625	0.142	0.00436	0.0031	0.025	0.0003	0.0002	0.0013
Count	36	36	35	33	35	36	30	36	36	36	35	35
Confidence Level(95.0%)	0.33944183	0.04178019	0.00952577	0.01280747	0.15043658	0.00844822	0.00028196	0.00013456	0	1.6365E-05	1.3418E-05	9.7499E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.001084	0.13851771	0.00494417	0.00066343	0.01697429	9.0857E-05	0.00029286	0.00018429	0.00011826	0.00532429	0.000128	0.00149171
Standard Error	0.00042405	0.00857729	0.00043307	0.00014209	0.00182274	2.4434E-05	8.9305E-05	3.22E-05	2.6477E-05	0.00010242	2.0208E-05	0.00055369
Median	0.0003	0.131	0.005	0.0005	0.0152	0.00005	0.0002	0.0001	0.0001	0.0053	0.0001	0.0007
Mode	0.0004	0.131	0.005	0.0005	0.0256	0.00005	0.0001	0.0001	0.0001	0.0054	0.0001	0.0004
Standard Deviation	0.00250871	0.05074392	0.00259839	0.00084064	0.01078345	0.00014456	0.00052834	0.0001905	0.00012698	0.0006059	0.00011955	0.00327568
Sample Variance	6.2936E-06	0.00257495	6.7517E-06	7.0668E-07	0.00011628	2.0896E-08	2.7914E-07	3.629E-08	1.6124E-08	3.6711E-07	1.4293E-06	1.073E-05
Skewness	3.15886793	0.66517745	0.90593391	5.74413641	2.16717962	5.4672397	5.22050534	3.64785685	4.05438265	-0.0105558	4.44635531	5.22684876
Range	0.0105	0.228	0.0075	0.00517	0.0469	0.00085	0.0031	0.001	0.00062	0.0025	0.0007	0.0193
Minimum	0.0001	0.062	0.0025	0.00028	0.005	0.00005	0.0001	0.0001	0.00005	0.0041	0.00005	0.0002
Maximum	0.0106	0.29	0.01	0.00545	0.0519	0.0009	0.0032	0.0011	0.00067	0.0066	0.00075	0.0195
Count	35	35	36	35	35	35	35	35	23	35	35	35
Confidence Level(95.0%)	0.00086177	0.01743113	0.00087917	0.00028877	0.00370424	4.9657E-05	0.00018149	6.5439E-05	5.4911E-05	0.00020813	4.1068E-05	0.00112523

Descriptive Statistics for Jeddore Lake- NF02ZE0018

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.74705882	17.7647368	29.8684211	0.49210526	10.8980556	6.14539474	1.66612903	0.99539447	1.27391892	0.34592105	0.17959459	1.18554054	1.78864865
Standard Error	1.05996868	1.33764441	1.25778998	0.05271998	0.38715688	0.02517463	0.2373395	0.01283083	0.02510274	0.00403512	0.00417961	0.02920736	0.02964482
Median	5.6	16.7	30	0.4225	10.55	6.13	1.5	1	1.25	0.34	0.17	1.15	1.74
Mode	0.5	17.5	30	0.45	8.9	6.12	1.4	1.05	1.11	0.34	0.17	1.16	1.64
Standard Deviation	6.18062639	8.24579393	7.75353817	0.3249878	2.32294126	0.15518682	1.32145041	0.07909457	0.15269403	0.02487415	0.02542359	0.17766144	0.18032243
Sample Variance	38.2001426	67.9931175	60.1173542	0.10561707	5.39605611	0.02408295	1.74623118	0.00625595	0.02331547	0.00061872	0.00064636	0.03156359	0.03251618
Skewness	0.38900907	5.70779018	-0.6883539	3.50313985	1.63466666	0.26534011	4.87938306	1.10383152	1.09838666	0.69066055	0.26702453	2.04969877	0.98242136
Range	16.8	56.54	30	1.96	12	0.77	7.8	0.5	0.69	0.12	0.11	0.905	0.77
Minimum	0.1	9.56	10	0.14	7.6	5.82	0.7	0.8	1.06	0.3	0.13	0.905	1.53
Maximum	16.9	66.1	40	2.1	19.6	6.59	8.5	1.3	1.75	0.42	0.24	1.81	2.3
Count	34	38	38	38	36	38	31	38	37	38	37	37	37
Confidence Level(95.0%)	2.15652421	2.71032238	2.54852209	0.10682073	0.78597121	0.05100859	0.48471142	0.02599771	0.05091066	0.00817592	0.00847664	0.0592352	0.06012241

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.395	0.00764079	0.05135135	0.17017143	1.1329727	0.09289068	0.00029677	0.00223514	0.025	5.8108E-05	0.00011389	0.00019167
Standard Error	0.08787903	0.002204	0.00506952	0.00422045	0.02328553	0.00858349	3.229E-05	0.00055188	0	4.5493E-06	4.0855E-05	2.293E-05
Median	4.355	0.0042	0.05	0.168	1.11	0.08	0.0003	0.0014	0.025	0.00005	0.00005	0.000125
Mode	4.3	0.0036	0.04	0.155	1.1	0.076	0.0003	0.0013	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.54172273	0.01358636	0.03083668	0.02496849	0.14164037	0.05221131	0.00017978	0.00335693	0	2.7672E-05	0.00024513	0.00013758
Sample Variance	0.29346351	0.00018459	0.0009509	0.00062343	0.020062	0.00272602	3.2323E-08	1.1269E-05	0	7.6577E-10	6.0087E-08	1.8929E-08
Skewness	-0.2765017	4.95818304	0.23096245	0.16933725	-0.561559	4.80246181	4.46626412	4.04630077	-1.0415741	4.24002338	5.50504715	2.15294194
Range	2.5	0.0816	0.115	0.116	0.77001	0.316	0.001	0.0156	0	0.00015	0.00145	0.0006
Minimum	3	0.0014	0.005	0.114	0.68999	0.062	0.0002	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	5.5	0.083	0.12	0.23	1.46	0.378	0.0012	0.0165	0.025	0.0002	0.0015	0.0007
Count	38	38	37	35	37	37	31	37	38	37	36	36
Confidence Level(95.0%)	0.17805966	0.00446572	0.01028145	0.00857697	0.04722519	0.01740809	6.5946E-05	0.00111926	0	9.2264E-06	8.2939E-05	4.6551E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00098056	0.12028319	0.00502857	0.00029389	0.01204694	5.6944E-05	0.00030333	0.00018694	8.8636E-05	0.00472083	0.00012125	0.00146111
Standard Error	0.00036902	0.01198493	0.00043238	1.9758E-05	0.00195657	2.9228E-06	4.0837E-05	2.6134E-05	7.3058E-06	8.996E-05	1.6414E-05	0.00047366
Median	0.0004	0.108	0.005	0.0003	0.00785	0.00005	0.0002	0.0001	0.0001	0.0046	0.0001	0.0009
Mode	0.0003	0.0838	0.005	0.0003	0.0066	0.00005	0.0002	0.0001	0.0001	0.0047	0.0001	0.0007
Standard Deviation	0.00221412	0.0719096	0.00255798	0.00011855	0.01173943	1.7537E-05	0.00024502	0.0001568	3.4267E-05	0.00053976	9.8484E-05	0.00284193
Sample Variance	4.9023E-06	0.00517099	6.5433E-06	1.4053E-08	0.00013781	3.0754E-10	6.0036E-08	2.4588E-08	1.1742E-09	2.9134E-07	9.6991E-09	8.0766E-06
Skewness	4.01195093	4.70802792	1.74571579	0.80906558	2.82878757	2.18028795	1.87523494	1.77175651	1.29908781	1.83519551	3.40925131	5.73570757
Range	0.0109	0.4369	0.0115	0.00054	0.0515	0.00005	0.0009	0.0005	0.00015	0.0024	0.00054	0.0175
Minimum	0.0001	0.0701	0.0025	0.00005	0.0041	0.00005	0.0001	0.0001	0.00005	0.0041	0.00005	0.0003
Maximum	0.011	0.507	0.014	0.00059	0.0556	0.0001	0.001	0.0006	0.0002	0.0065	0.00059	0.0178
Count	36	36	35	36	36	36	36	36	22	36	36	36
Confidence Level(95.0%)	0.00074915	0.02433074	0.0008787	4.011E-05	0.00397206	5.9336E-06	8.2904E-05	5.3055E-05	1.5193E-05	0.00018263	3.3322E-05	0.00096157

Descriptive Statistics for Ste. Genevieve River- NF02YA0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.06290323	131.121951	18.6756098	0.38264228	12.2880597	7.59188755	51.9835341	16.8116667	3.84978355	3.66720833	0.35406926	3.13054167	6.11475
Standard Error	0.82362407	1.21770183	1.19422815	0.02012563	0.22386477	0.03635601	0.56841398	0.20847388	0.04176661	0.03601753	0.00480525	0.04759255	0.08729142
Median	0.9	130.5	20	0.33	12.9	7.65	51.7	16.85	3.79	3.65	0.34	3.095	6.115
Mode	0	128	20	0.28	13.2	7.8	54	18.3	4	3.6	0.33	3.09	6.81
Standard Deviation	6.48522239	11.0267591	10.8141959	0.18224536	1.83241209	0.33121898	5.17849779	1.86464704	0.3665005	0.32215058	0.04216586	0.42568071	0.78075818
Sample Variance	42.0581095	121.589416	116.946833	0.03321337	3.35773406	0.10970601	26.8168394	3.47690858	0.13432261	0.103781	0.00177796	0.18120406	0.60958334
Skewness	0.93876342	-0.3829186	0.91482434	1.26146853	-0.5314542	-0.5953505	-0.3845618	-0.4788751	0.38423624	0.46515758	0.97203864	-0.7135841	-0.0864433
Range	21.4	62.6	46.5	1.03	6.9	1.75	25.3	8.5	2	1.61	0.24	2.34	4.63
Minimum	-0.4	99.4	5	0.02	8.6	6.61	37.8	11.9	2.99	3.02	0.27	1.65	3.55
Maximum	21	162	51.5	1.05	15.5	8.36	63.1	20.4	4.99	4.63	0.51	3.99	8.18
Count	62	82	82	82	67	83	83	80	77	80	77	80	80
Confidence Level(95.0%)	1.64693857	2.42284663	2.37614133	0.04004373	0.44696027	0.07232372	1.13075705	0.41495722	0.08318552	0.07169116	0.00957049	0.09473068	0.17374937

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.70304878	0.00403803	0.03764557	0.17621039	1.10878012	0.01616394	8.6765E-05	0.00880343	0.02771084	5.6627E-05	7.284E-05	0.00016214
Standard Error	0.2176441	0.00055376	0.00357941	0.00645243	0.02191056	0.00126358	1.1788E-05	0.00013545	0.0008584	1.8722E-06	3.5191E-06	2.4391E-05
Median	4.24	0.0035	0.03	0.1675	1.06	0.012	0.00005	0.00899	0.025	0.00005	0.00005	0.0001
Mode	4	0.004	0.005	0.164	1.05	0.01	0.00005	0.0095	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.97085111	0.00504502	0.03181452	0.05625097	0.1984086	0.01151178	9.7206E-05	0.00123399	0.00782044	1.7056E-05	3.1672E-05	0.00021952
Sample Variance	3.8842541	2.5452E-05	0.00101216	0.00316417	0.03936597	0.00013252	9.4491E-09	1.5227E-06	6.1159E-05	2.9092E-10	1.0031E-09	4.8188E-08
Skewness	3.69352641	7.76214192	1.23037869	1.29877971	1.40525115	1.99659552	6.16179032	-3.3755369	2.5652943	2.20763971	1.67886839	5.95786424
Range	14.8	0.0469	0.135	0.319	1.32	0.059	0.00075	0.0099	0.025	0.00005	0.00015	0.0017
Minimum	0.6	0.0002	0.005	0.077	0.72	0.005	0.00005	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	15.4	0.0471	0.14	0.396	2.04	0.064	0.0008	0.0108	0.05	0.0001	0.0002	0.0018
Count	82	83	79	76	82	83	68	83	83	83	81	81
Confidence Level(95.0%)	0.43304383	0.00110161	0.00712606	0.0128539	0.04359519	0.00251367	2.3529E-05	0.00026945	0.00170764	3.7244E-06	7.0032E-06	4.8539E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00048016	0.04361284	0.00404217	0.0004023	0.00502066	6.6049E-05	0.00014926	0.00014432	9.8936E-05	0.02210329	8.107E-05	0.00148235
Standard Error	9.7859E-05	0.0037123	0.00013985	1.1426E-05	0.00054796	3.0209E-06	1.4322E-05	1.0293E-05	9.0595E-06	0.0002917	4.4862E-06	0.00076343
Median	0.0003	0.037	0.005	0.0004	0.004	0.00005	0.0001	0.0001	0.0001	0.0224	0.00005	0.0002
Mode	0.0002	0.054	0.005	0.0004	0.0033	0.00005	0.0001	0.0001	0.0001	0.0237	0.00005	0.0001
Standard Deviation	0.00088073	0.03341068	0.00127405	0.00010283	0.00493164	2.7188E-05	0.00012889	9.2638E-05	6.2109E-05	0.00262533	4.0376E-05	0.00687087
Sample Variance	7.7569E-07	0.00111627	1.6232E-06	1.0575E-08	2.4321E-05	7.392E-10	1.6614E-08	8.5818E-09	3.8575E-09	6.8924E-06	1.6302E-09	4.7209E-05
Skewness	6.89302754	4.90195161	-0.3457523	-0.3762657	5.77301012	1.9564248	4.44415496	2.71341744	1.81872941	-0.3949212	1.5581387	7.52506585
Range	0.0075	0.268	0.0035	0.00039	0.0409	0.00015	0.0009	0.00049	0.00025	0.013	0.00015	0.058
Minimum	0.0001	0.015	0.0025	0.0002	0.0015	0.00005	0.0001	0.0001	0.00005	0.0158	0.00005	0.0001
Maximum	0.0076	0.283	0.006	0.00059	0.0424	0.0002	0.001	0.00059	0.0003	0.0288	0.0002	0.0581
Count	81	81	83	81	81	81	81	81	47	81	81	81
Confidence Level(95.0%)	0.00019475	0.00738771	0.0002782	2.2739E-05	0.00109048	6.0118E-06	2.8501E-05	2.0484E-05	1.8236E-05	0.00058051	8.9279E-06	0.00151928

Descriptive Statistis for Torrent River- NF02YC0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.8442623	45.8168776	37.4514768	0.45805195	11.7263158	7.0427193	12.7795455	4.22748858	2.43142857	1.50902222	0.3132619	2.45290476	3.67921296
Standard Error	0.78837706	1.09881647	1.55524561	0.0310707	0.40959559	0.02142485	0.45373482	0.10494304	0.07414224	0.04134465	0.01390131	0.07791093	0.14349875
Median	4	46	35.8	0.4	11	7.01666667	13.15	4.3	2.4	1.5	0.3	2.4	3.51
Mode	0	54	35	0.4	11	7	11	4.1	2.4	1.6	0.3	2.6	3.9
Standard Deviation	6.15742166	9.76649437	13.8233254	0.27264427	1.78538577	0.18677752	3.00973628	0.89663376	0.62031849	0.35805521	0.1163067	0.65184957	1.21762725
Sample Variance	37.9138415	95.3844123	191.084325	0.0743349	3.18760234	0.03488584	9.05851245	0.80395209	0.38479503	0.12820354	0.01352725	0.42490787	1.48261612
Skewness	0.85082173	0.1142909	0.7781088	3.15895647	0.70291567	-0.0294027	-0.7694807	-0.2557185	0.34520803	-0.3218429	2.68080572	1.49452373	0.91617377
Range	21	69	90	1.9	7.4	0.9	15.3	5.6	4.3	2.1	0.91	4.4	7.4
Minimum	0	16	5	0.1	8.6	6.6	3.9	1.6	0.5	0.5	0.05	0.8	1
Maximum	21	85	95	2	16	7.5	19.2	7.2	4.8	2.6	0.96	5.2	8.4
Count	61	79	79	77	19	76	44	73	70	75	70	70	72
Confidence Level(95.0%)	1.5769884	2.18757604	3.09625688	0.06188274	0.86052906	0.0426805	0.91504283	0.2092	0.14790968	0.08238103	0.02773235	0.155428	0.28612852

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	4.87883598	0.00534242	0.03973421	0.13489316	1.46839488	0.119	0.00023111	0.0078	0.11428571	0.00021429	0.00015714	0.00144286
Standard Error	1.158E-10	0.1426676	0.0006007	0.00370918	0.00781249	0.0581582	0.01151603	7.1578E-06	0.00041461	0.06428571	7.3771E-05	5.7143E-05	0.00012317
Median	0.025	4.9	0.004	0.03	0.13	1.475	0.123	0.00025	0.0077	0.05	0.0001	0.0001	0.0015
Mode	0.025	5	0.004	0.005	0.05	1.1	#N/A	0.00025		0.05	0.0001	0.0001	0.0015
Standard Deviation	7.8536E-10	1.13238894	0.00527109	0.03233585	0.06899808	0.42737373	0.03046856	4.8016E-05	0.00109697	0.17008401	0.00019518	0.00015119	0.00032587
Sample Variance	6.1679E-19	1.28230472	2.7784E-05	0.00104561	0.00476073	0.18264831	0.00092833	2.3056E-09	1.2033E-06	0.02892857	3.8095E-08	2.2857E-08	1.0619E-07
Skewness	1.03402847	0.68785296	4.92329562	1.19344331	2.06672009	0.26337802	-0.2196643	-2.3790388	0.35529895	2.64575131	1.22963409	2.64575131	-0.4144836
Range	0	5.83333333	0.0415	0.155	0.46	1.53	0.077	0.00015	0.0036	0.45	0.0004	0.0004	0.001
Minimum	0.025	2.7	0.0005	0.005	0.04	0.77	0.077	0.0001	0.0061	0.05	0.0001	0.0001	0.0009
Maximum	0.025	8.53333333	0.042	0.16	0.5	2.3	0.154	0.00025	0.0097	0.5	0.0005	0.0005	0.0019
Count	46	63	77	76	78	54	7	45	7	7	7	7	7
Confidence Level(95.0%)	2.3322E-10	0.28518815	0.00119639	0.00738906	0.01555668	0.11665052	0.02817874	1.4426E-05	0.00101452	0.15730159	0.00018051	0.00013982	0.00030138

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.00234286	0.10765714	0.00928571	0.00062857	0.00722857	0.00014286	0.00034286	0.00037143	0.01358571	0.00021429	0.00257143
Standard Error	0.00082024	0.01728657	0.00216811	0.000363	0.00262349	4.2857E-05	9.4761E-05	0.00011279	0.00086339	8.289E-05	0.00160085
Median	0.0016	0.11	0.007	0.0003	0.0049	0.0001	0.0002	0.0002	0.0135	0.0001	0.0009
Mode	0.0005		0.005	0.0003		0.0001	0.0002	0.0002		0.0001	0.0009
Standard Deviation	0.00217014	0.04573598	0.00573627	0.00096041	0.00694111	0.00011339	0.00025071	0.00029841	0.00228432	0.00021931	0.00423545
Sample Variance	4.7095E-06	0.00209178	3.2905E-05	9.2238E-07	4.8179E-05	1.2857E-08	6.2857E-08	8.9048E-08	5.2181E-06	4.8095E-08	1.7939E-05
Skewness	1.50390807	0.20956263	1.3432898	2.61118093	2.46157252	2.64575131	1.45040734	1.38703749	-0.4275872	2.40271609	2.56012047
Range	0.0061	0.1235	0.015	0.0027	0.0196	0.0003	0.0006	0.0007	0.0071	0.0006	0.0118
Minimum	0.0005	0.0495	0.005	0.0001	0.0031	0.0001	0.0002	0.0002	0.0097	0.0001	0.0003
Maximum	0.0066	0.173	0.02	0.0028	0.0227	0.0004	0.0008	0.0009	0.0168	0.0007	0.0121
Count	7	7	7	7	7	7	7	7	7	7	7
Confidence Level(95.0%)	0.00200705	0.04229875	0.00530517	0.00088823	0.00641946	0.00010487	0.00023187	0.00027598	0.00211264	0.00020282	0.00391714

Descriptive Statistics for Portalnd Creek- NF02YE0004

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.98352941	50.7316038	37.4418239	0.40715409	11.985567	7.07116352	12.040566	4.02740566	3.21112179	1.50721698	0.26379808	1.96544025	5.17275157
Standard Error	0.72406773	0.50495132	1.09129082	0.0243633	0.19432448	0.03249611	0.20221298	0.0508639	0.04291282	0.01702301	0.00247911	0.02140927	0.09206987
Median	3.9	50.4	40	0.37	12.3	7.0625	11.75	3.945	3.16	1.49	0.26	1.955	4.92
Mode	0	44.2	40	0.15	13.7	7.35	10.3	3.44	3.55	1.32	0.25	2	4.92
Standard Deviation	6.67557465	5.19879205	11.2355267	0.25083553	1.91387422	0.33456797	2.08191001	0.52367586	0.43762663	0.17526257	0.02528207	0.22042195	0.94791729
Sample Variance	44.5632969	27.0274388	126.237059	0.06291846	3.66291452	0.11193572	4.33434931	0.27423641	0.19151707	0.03071697	0.00063918	0.04858584	0.8985472
Skewness	0.49690503	0.35347056	-0.4235503	0.99050077	-0.232089	-0.1588091	-0.10618	0.35408258	0.32374465	0.15402003	0.73755505	0.26117925	0.33877139
Range	20.7	22.9	57.5	1.185	6.7	1.99	11.2	2.13	1.58	0.7	0.13	0.93333333	3.34
Minimum	0	41.5	2.5	0.015	8.4	6.02	5.6	3.08	2.46	1.16	0.21	1.55	3.58
Maximum	20.7	64.4	60	1.2	15.1	8.01	16.8	5.21	4.04	1.86	0.34	2.48333333	6.92
Count	85	106	106	106	97	106	106	106	104	106	104	106	106
Confidence Level(95.0%)	1.43988845	1.00122591	2.16382965	0.04830796	0.38573135	0.06443384	0.40095126	0.10085378	0.08510738	0.0337535	0.00491673	0.04245066	0.18255767

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.60657233	0.00457981	0.0778128	0.2041229	1.81819444	0.11430497	7.0313E-05	0.00452516	0.02650943	5.7547E-05	8.1891E-05	0.00017542
Standard Error	0.09023562	0.00020115	0.00282985	0.00474074	0.01975711	0.00336669	4.5533E-06	9.2103E-05	0.00060757	3.5335E-06	4.8101E-06	2.1647E-05
Median	4.6	0.0041	0.08	0.201	1.82	0.1075	0.00005	0.0044	0.025	0.00005	0.00005	0.0001
Mode	4.6	0.0041	0.08	0.259	2	0.1	0.00005	0.0043	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.92903255	0.00207092	0.0291351	0.04716972	0.19357935	0.0346622	3.6426E-05	0.00094826	0.00625528	3.6379E-05	4.9053E-05	0.00022076
Sample Variance	0.86310147	4.2887E-06	0.00084885	0.00222498	0.03747296	0.00120147	1.3269E-09	8.9919E-07	3.9128E-05	1.3235E-09	2.4062E-09	4.8734E-08
Skewness	1.99611232	1.75511843	-0.1823718	0.22035777	-0.040512	2.40357761	2.24404463	7.72022517	4.04646472	8.22750976	3.31306206	5.28052305
Range	6.5	0.0123	0.145	0.273	1.03	0.225	0.00015	0.0096	0.035	0.00035	0.00035	0.0017
Minimum	3	0.0003	0.005	0.094	1.32	0.06	0.00005	0.0037	0.025	0.00005	0.00005	0.0001
Maximum	9.5	0.0126	0.15	0.367	2.35	0.285	0.0002	0.0133	0.06	0.0004	0.0004	0.0018
Count	106	106	106	99	96	106	64	106	106	106	104	104
Confidence Level(95.0%)	0.17892069	0.00039883	0.00561108	0.00940784	0.03922279	0.00667553	9.0991E-06	0.00018262	0.00120469	7.0062E-06	9.5396E-06	4.2932E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00101897	0.14965567	0.0044243	0.00030638	0.00625484	6.5865E-05	0.00014936	0.00028218	0.00010938	0.00962465	0.00015465	0.0014025
Standard Error	0.00026773	0.0072562	0.00022305	1.1249E-05	0.00054078	2.5803E-06	1.0941E-05	3.1887E-05	9.1355E-06	7.2903E-05	9.2631E-06	0.00025411
Median	0.0004	0.13383333	0.005	0.0003	0.00495	0.00005	0.0001	0.0001	0.0001	0.00959	0.0001	0.0009
Mode	0.0002	0.136	0.005	0.0003	0.0038	0.00005	0.0001	0.0001	0.0001	0.00929	0.0001	0.0008
Standard Deviation	0.00273034	0.07399901	0.00206844	0.00011416	0.00551489	2.6314E-05	0.00011157	0.00032519	6.3293E-05	0.00074346	9.4465E-05	0.00259144
Sample Variance	7.4547E-06	0.00547585	4.2784E-06	1.3033E-08	3.0414E-05	6.9245E-10	1.2448E-08	1.0575E-07	4.006E-09	5.5274E-07	8.9237E-09	6.7155E-06
Skewness	5.46532656	3.18177841	3.50862563	1.3826609	3.9808728	1.80094949	3.84087368	2.47002837	1.01048298	0.18191385	1.75952487	6.04010078
Range	0.0185	0.493	0.0155	0.00085	0.0347	0.00015	0.0008	0.0015	0.00025	0.0029	0.00055	0.0196
Minimum	0.0001	0.065	0.0025	0.00005	0.0023	0.00005	0.0001	0.0001	0.00005	0.0083	0.00005	0.0003
Maximum	0.0186	0.558	0.018	0.0009	0.037	0.0002	0.0009	0.0016	0.0003	0.0112	0.0006	0.0199
Count	104	104	86	103	104	104	104	104	48	104	104	104
Confidence Level(95.0%)	0.00053098	0.01439095	0.00044347	2.2312E-05	0.00107251	5.1175E-06	2.1698E-05	6.3241E-05	1.8378E-05	0.00014458	1.8371E-05	0.00050397

Descriptive Statistics for Western Brook- NF02YE0005

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean		41.8485849	13.3462264	0.38842767	12.15	6.86043614		2.58336601	3.54060606	0.83830062	0.26745791	2.68455556	5.60893651
Standard Error	6.69764706	0.86747118	0.83254177	0.02504948	0.17222118	0.0342959	6.14700935	0.07690763	0.06987187	0.01805543	0.00333808	0.29504963	0.09799992
Median	0.7226003	39.75	10	0.31833333	12.4	6.84	0.26501367	2.4	3.38	0.79166667	0.26	2.38	5.4
Mode	5.2	36.8	10	0.3	13.6	6.91	5.5	2.22	3.28	0.76	0.26	2.28	5.77
Standard Deviation	0.1	8.93116241	8.57154215	0.25790013	1.67860441	0.35475959	5.3	0.77672899	0.69521634	0.18235093	0.03321351	3.02335906	1.00420034
Sample Variance	6.6620456	79.765662	73.4713348	0.06651248	2.81771277	0.12585437	2.74132269	0.60330792	0.48332576	0.03325186	0.00110314	9.14070001	1.00841833
Kurtosis	44.3828515	24.114122	0.48828302	2.76643317	-1.0089474	0.64315154	7.51485009	31.5089958	14.0874534	28.5999466	10.8215279	104.021307	10.0473217
Skewness	0.58044897	4.54263544	1.05829535	1.52793627	-0.3977033	0.50321215	5.78313117	5.17509535	3.48496195	4.93786983	2.72708531	10.1761571	2.74093792
Range	22.1	63.9	37.5	1.285	6.2	1.81	21.5	6	4.18	1.37	0.23	31.49	6.68
Minimum	0	36.1	2.5	0.015	8.5	6.07	4.4	2.1	2.94	0.71	0.2	1.81	4.32
Maximum	22.1	100	40	1.3	14.7	7.88	25.9	8.1	7.12	2.08	0.43	33.3	11
Count	85	106	106	106	95	107	107	102	99	102	99	105	105
Confidence Level(95.0%)	1.4369703	1.72003633	1.65077771	0.04966852	0.34194901	0.067995	0.52541567	0.15256403	0.13865845	0.03581712	0.00662432	0.58509374	0.19433727

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	2.50327044	0.00297146	0.15098237	0.21903199	2.01017182	0.06830648	7.8125E-05	0.00632838	0.02719626	5.8411E-05	6.9524E-05	0.00043394
Standard Error	8.01E-307	0.07742759	0.00018129	0.00367665	0.00319525	0.02189546	0.00177905	6.7953E-06	0.0001475	0.00070946	3.0052E-06	3.7975E-06	0.00018862
Median	0.025	2.3	0.0025	0.15	0.219	2	0.063	0.00005	0.006	0.025	0.00005	0.00005	0.0001
Mode		2.2	0.002	0.14	0.229	2	0.06	0.0001	0.0061	0.025	0.00005	0.00005	0.0001
Standard Deviation		0.79716588	0.0018753	0.03749461	0.03179235	0.21564523	0.01840267	5.4362E-05	0.0015258	0.00733876	3.1086E-05	3.8913E-05	0.00193279
Sample Variance		0.63547344	3.5167E-06	0.00140585	0.00101075	0.04650286	0.00033866	2.9552E-09	2.3281E-06	5.3857E-05	9.6632E-10	1.5142E-09	3.7357E-06
Kurtosis		2.53613377	13.4748141	1.60335231	0.13487903	3.91287128	12.5754993	3.8614467	43.2303995	8.35219433	37.955356	13.4617698	86.0522147
Skewness		1.58606729	2.82294869	-0.4693955	-0.1043298	0.94632707	2.88634854	1.7022217	6.04784509	3.14078276	5.63326964	3.18078099	9.02192545
Range	0	4	0.0144	0.24	0.171	1.39	0.133	0.000275	0.0134	0.035	0.00025	0.00025	0.019
Minimum	0.025	1.3	0.0001	0.01	0.132	1.58	0.046	0.000025	0.0051	0.025	0.00005	0.00005	0.0001
Maximum	0.025	5.3	0.0145	0.25	0.303	2.97	0.179	0.0003	0.0185	0.06	0.0003	0.0003	0.0191
Count	1	106	107	104	99	97	107	64	107	107	107	105	105
Confidence Level(95.0%)		0.15352473	0.00035943	0.00729176	0.00634087	0.04346217	0.00352715	1.3579E-05	0.00029244	0.00140658	5.958E-06	7.5305E-06	0.00037404

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00091924	0.07056213	0.00448276	0.00020171	0.00424003	9.7619E-05	0.0001873	0.0002257	0.0001058	0.0108979	0.00018651	0.00074644
Standard Error	0.0001748	0.00507113	0.00023938	9.7567E-06	0.00042532	3.1899E-05	1.8181E-05	2.0246E-05	9.9004E-06	0.0002249	9.1067E-06	4.7667E-05
Median	0.0004	0.0527	0.005	0.0002	0.0031	0.00005	0.0001	0.0001	0.0001	0.0105	0.0002	0.00059
Mode	0.0003	0.0527	0.005	0.0002	0.0038	0.00005	0.0001	0.0001	0.0001	0.0106	0.0002	0.00059
Standard Deviation	0.00179116	0.05196361	0.00223275	9.95E-05	0.00435827	0.00032687	0.0001863	0.00020746	6.7148E-05	0.00230457	9.3315E-05	0.00048844
Sample Variance	3.2083E-06	0.00270022	4.9852E-06	9.9002E-09	1.8995E-05	1.0685E-07	3.4709E-08	4.3039E-08	4.5089E-09	5.311E-06	8.7078E-09	2.3857E-07
Kurtosis	30.9443153	7.46913781	27.808893	1.11080203	22.006948	103.038364	34.5097555	5.98865223	7.04643354	6.25949865	1.09663141	9.60699514
Skewness	5.26837148	2.38755754	4.23511935	0.83907655	4.37782356	10.1066226	5.17817503	2.2609481	2.20679354	0.0199	0.80176494	2.5036673
Range	0.0135	0.3144	0.0175	0.00045	0.0292	0.00335	0.0015	0.0011	0.00035	0.0091	0.00045	0.00333333
Minimum	0.0001	0.0216	0.0025	0.00005	0.0013	0.00005	0.0001	0.0001	0.00005	0.029	0.00005	0.0001
Maximum	0.0136	0.336	0.02	0.0005	0.0305	0.0034	0.0016	0.0012	0.0004	1.14428	0.0005	0.00343333
Count	105	105	87	104	105	105	105	105	46	105	105	105
Confidence Level(95.0%)	0.00034663	0.01005623	0.00047586	1.935E-05	0.00084343	6.3258E-05	3.6054E-05	4.0148E-05	1.994E-05	0.00044599	1.8059E-05	9.4525E-05

Descriptive Statistics for Main River- NF02YG0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.5402439	26.7117143	70.6016026	0.50636508	12.4006202	6.14705189	2.76256039	1.38411111	2.42658576	0.56980149	0.25449029	1.45708491	3.73371069
Standard Error	0.76961426	0.7273304	2.18587958	0.04770234	0.24483429	0.05061941	0.21137056	0.04608314	0.06851903	0.01464991	0.00567867	0.04042751	0.13016201
Median	1.4	25.9	70	0.39	13.35	6.14	2.3	1.31	2.4	0.57	0.25	1.5	3.68
Mode	0	26.4	70	0.5	14.3	6.59	1.8	1.2	2.68	0.6	0.22	1.58	4.02
Standard Deviation	6.96915355	7.45291878	22.2916853	0.48880353	2.27049984	0.52115868	1.75577573	0.47221162	0.69539218	0.15011693	0.05763225	0.41622669	1.34009992
Sample Variance	48.5691012	55.5459983	496.919231	0.23892889	5.15516955	0.27160636	3.08274841	0.22298382	0.48357028	0.02253509	0.00332148	0.17324466	1.79586779
Skewness	1.0472176	1.10084812	0.25198012	6.05154819	-0.9781393	0.75450788	1.49972455	1.61043225	2.56507527	0.21865494	0.75491032	1.41117065	1.53553891
Range	21.5	47.82	100	4.36	10.61	2.75	9.15	3.15	5.53	0.82	0.3	3.11	8.74
Minimum	0	7.38	20	0.14	4.59	5.18	0.05	0.58	1.24	0.26	0.14	0.49	1.56
Maximum	21.5	55.2	120	4.5	15.2	7.93	9.2	3.73	6.77	1.08	0.44	3.6	10.3
Count	82	105	104	105	86	106	69	105	103	105	103	106	106
Confidence Level(95.0%)	1.5312922	1.44232161	4.33517264	0.09459541	0.48679646	0.100369	0.42178314	0.09138447	0.1359071	0.02905129	0.01126362	0.08016034	0.25808741

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	7.4368254	0.00540581	0.02583571	0.19532738	2.70225694	0.20192767	8.1989E-05	0.00506478	0.02617925	5.9434E-05	0.00011959	0.00027222
Standard Error	0.21214013	0.00026156	0.00265582	0.00715501	0.13553159	0.00555049	9.9377E-06	0.00011079	0.00051723	2.2344E-06	8.7289E-06	2.1593E-05
Median	7.2	0.0049	0.01	0.189	2.865	0.2025	0.00005	0.0049	0.025	0.00005	0.0001	0.0002
Mode	5.8	0.0042	0.005	0.144	3.41	0.211	0.00005	0.0047	0.025	0.00005	0.0001	0.0002
Standard Deviation	2.17378949	0.00268016	0.02721403	0.07083097	1.32793297	0.05714578	7.8249E-05	0.0011407	0.00532523	2.3004E-05	8.9445E-05	0.00022126
Sample Variance	4.72536077	7.1833E-06	0.0007406	0.00501703	1.76340596	0.00326564	6.1229E-09	1.3012E-06	2.8358E-05	5.292E-10	8.0004E-09	4.8957E-08
Skewness	0.91982666	1.86275006	1.23194087	3.70248157	-0.3028007	0.00100062	5.10745323	0.58046146	4.33350984	3.06055804	2.61687432	3.72889046
Range	12.9	0.01671	0.1175	0.58225	5.07	0.301	0.00055	0.0057	0.025	0.00015	0.00054	0.0016
Minimum	2.5	0.00059	0.0025	0.10075	0.13	0.045	0.00005	0.0026	0.025	0.00005	0.00005	0.0001
Maximum	15.4	0.0173	0.12	0.683	5.2	0.346	0.0006	0.0083	0.05	0.0002	0.00059	0.0017
Count	105	105	105	98	96	106	62	106	106	106	105	105
Confidence Level(95.0%)	0.4206813	0.00051868	0.00526658	0.0142007	0.26906403	0.0110056	1.9872E-05	0.00021969	0.00102558	4.4304E-06	1.731E-05	4.2819E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00077727	0.33127714	0.00529216	0.00022506	0.01090244	9.2063E-05	0.00020435	0.00033921	0.00010889	0.00724683	0.00027654	0.00244594
Standard Error	0.00012057	0.00999117	0.00064816	1.0497E-05	0.00096497	1.3148E-05	1.131E-05	4.1236E-05	1.0087E-05	0.00016928	1.1903E-05	0.00054644
Median	0.0005	0.322	0.005	0.0002	0.0072	0.00005	0.0002	0.0002	0.0001	0.0073	0.0003	0.0014
Mode	0.0005	0.308	0.005	0.0002	0.0043	0.00005	0.0001	0.0001	0.0001	0.0074	0.0003	0.0013
Standard Deviation	0.00123543	0.10237899	0.00597575	0.00010705	0.00988795	0.00013473	0.00011589	0.00042254	6.7663E-05	0.00173459	0.00012197	0.00559933
Sample Variance	1.5263E-06	0.01048146	3.571E-05	1.146E-08	9.7772E-05	1.8152E-08	1.3431E-08	1.7854E-07	4.5783E-09	3.0088E-06	1.4878E-08	3.1352E-05
Skewness	5.45942924	0.74991741	6.30966865	1.29653566	2.28721164	5.2917079	1.55651847	5.02603624	2.13800514	-0.1727701	1.11703556	6.8732175
Range	0.009	0.539	0.0485	0.00065	0.0541	0.00095	0.0006	0.0035	0.00035	0.0081	0.00065	0.0445
Minimum	0.0001	0.098	0.0025	0.00005	0.0021	0.00005	0.0001	0.0001	0.00005	0.0034	0.00005	0.0002
Maximum	0.0091	0.637	0.051	0.0007	0.0562	0.001	0.0007	0.0036	0.0004	0.0115	0.0007	0.0447
Count	105	105	85	104	105	105	105	105	45	105	105	105
Confidence Level(95.0%)	0.00023909	0.01981283	0.00128894	2.0819E-05	0.00191356	2.6074E-05	2.2428E-05	8.1772E-05	2.0328E-05	0.00033568	2.3605E-05	0.00108361

Descriptive Statistics for Lomond Brook- NF02YH0018

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.875	161.989198	16.77737	0.40247706	12.116323	7.78272171	69.9209091	21.2370159	3.40611111	5.45634921	0.27831699	2.7658567	5.64342679
Standard Error	0.73040255	1.70106223	1.55984427	0.09087292	0.19156703	0.02764669	0.96320181	0.17736738	0.03803793	0.05402048	0.00269962	0.02928666	0.10143587
Median	4.2	164.5	11.6666667	0.28	12.7	7.83	72.35	21.7	3.325	5.55	0.28	2.77	5.51
Mode	0.3	173	10	0.3	13.9	7.82	75.1	21.8	3.28	5.5	0.27	2.84	6.32
Standard Deviation	6.69424992	17.6779572	16.2852523	0.94874114	1.88671645	0.28863991	10.1021459	1.81747476	0.38416428	0.5535452	0.02726484	0.30294357	1.04926084
Sample Variance	44.8129819	312.510171	265.209442	0.90010975	3.55969895	0.083313	102.053351	3.30321451	0.1475822	0.30641229	0.00074337	0.09177481	1.10094831
Skewness	0.64676807	-4.5420763	7.41410645	9.7640687	-0.4381408	-0.9740509	-3.9822501	-3.0826707	1.16638542	-3.7872902	0.89701189	-1.7895503	0.25526518
Range	22.4	145.7	164.5	9.99	7.3	1.56	76.2	15.98	2.06	4.81	0.21	2.89	6.61
Minimum	0	35.3	2.5	0.01	7.5	6.75	4.4	9.22	2.74	1.49	0.19	0.91	1.84
Maximum	22.4	181	167	10	14.8	8.31	80.6	25.2	4.8	6.3	0.4	3.8	8.45
Count	84	108	109	109	97	109	110	105	102	105	102	107	107
Confidence Level(95.0%)	1.45274168	3.37215969	3.09187799	0.18012566	0.38025784	0.05480046	1.90903354	0.35172571	0.07545701	0.1071245	0.00535532	0.05806369	0.2011066

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.67905199	0.00298125	0.07037569	0.16272366	1.9349	0.03429664	0.00010448	0.00853327	0.02683486	5.4893E-05	8.0374E-05	0.00019838
Standard Error	0.18664921	0.00019551	0.00335234	0.00331596	0.02320936	0.0012851	1.1088E-05	7.1056E-05	0.00062735	1.5098E-06	4.9132E-06	3.1713E-05
Median	3.4	0.0026	0.07	0.166	1.92166667	0.03	0.0001	0.0086	0.025	0.00005	0.00005	0.0001
Mode	3.3	0.0026	0.07	0.17	2.1	0.029	0.0001	0.0088	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.94867498	0.00204116	0.03451445	0.03348954	0.23209361	0.01341682	9.0759E-05	0.00074185	0.00654969	1.5763E-05	5.0822E-05	0.00032805
Sample Variance	3.79733418	4.1663E-06	0.00119125	0.00112155	0.05386744	0.00018001	8.2372E-09	5.5034E-07	4.2898E-05	2.4847E-10	2.5829E-09	1.0761E-07
Skewness	6.33603892	3.09889473	0.41435303	-0.1375098	0.15217713	2.59201425	4.62598877	0.26151376	3.31755871	3.12359833	3.16231304	5.2089234
Range	16	0.0156	0.165	0.15601	1.09	0.083	0.00065	0.00446667	0.025	8.3333E-05	0.00035	0.0024
Minimum	2	0.0002	0.005	0.08599	1.47	0.018	0.00005	0.0067	0.025	0.00005	0.00005	0.0001
Maximum	18	0.0158	0.17	0.242	2.56	0.101	0.0007	0.01116667	0.05	0.00013333	0.0004	0.0025
Count	109	109	106	102	100	109	67	109	109	109	107	107
Confidence Level(95.0%)	0.36997064	0.00038753	0.00664708	0.00657797	0.04605242	0.00254728	2.2138E-05	0.00014085	0.00124351	2.9927E-06	9.7408E-06	6.2875E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000691	0.03548526	0.00433708	0.00029959	0.0031972	0.00010215	0.00014324	0.00019533	9.539E-05	0.03782087	0.00011589	0.00034963
Standard Error	9.117E-05	0.00154842	0.0001639	1.1174E-05	0.00010712	6.3157E-06	8.5954E-06	2.5026E-05	8.3557E-06	0.00028178	6.8765E-06	3.2187E-05
Median	0.0004	0.0314	0.005	0.0003	0.0029	0.0001	0.0001	0.0001	0.0001	0.0383	0.0001	0.0002
Mode	0.0003	0.0314	0.005	0.0003	0.0024	0.0001	0.0001	0.0001	0.0001	0.0407	0.0001	0.0001
Standard Deviation	0.00094307	0.01601702	0.00154621	0.00011504	0.00110802	6.533E-05	8.8912E-05	0.00025887	5.7284E-05	0.00291471	7.1131E-05	0.00033294
Sample Variance	8.8938E-07	0.00025655	2.3908E-06	1.3235E-08	1.2277E-06	4.268E-09	7.9053E-09	6.7012E-08	3.2814E-09	8.4955E-06	5.0597E-09	1.1085E-07
Skewness	3.18512713	1.56989858	0.80375791	0.10555444	1.73240792	2.07731367	2.32596233	3.68647886	2.10427697	-0.6848929	2.06000047	2.3305616
Range	0.0054	0.0733	0.0075	0.00065	0.0066	0.00035	0.0004	0.0015	0.00028333	0.0148	0.00035	0.0018
Minimum	0.0001	0.0123	0.0025	0.00005	0.0015	0.00005	0.0001	0.0001	0.00005	0.0295	0.00005	0.0001
Maximum	0.0055	0.0856	0.01	0.0007	0.0081	0.0004	0.0005	0.0016	0.00033333	0.0441	0.0004	0.0019
Count	107	107	89	106	107	107	107	107	47	107	107	107
Confidence Level(95.0%)	0.00018075	0.0030699	0.00032571	2.2156E-05	0.00021237	1.2521E-05	1.7041E-05	4.9616E-05	1.6819E-05	0.00055865	1.3633E-05	6.3814E-05

Descriptive Statistics for Upper Humber River- NF02YL0011

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.3	35.6757576	57.5090909	0.52412121	11.3371429	6.6458631	7.74567901	3.18303571	2.38460606	0.79163673	0.26145455	1.67830303	3.44054545
Standard Error	1.26519483	1.30859785	2.57109686	0.05007118	0.35711462	0.0411308	0.48822798	0.13851598	0.07396921	0.03469076	0.00641487	0.06210733	0.15633276
Median	5.1	33.6	60	0.46666667	11.7	6.665	7.15	3.135	2.38	0.785	0.26	1.66	3.37
Mode	0	31.8	50	0.35	9.2	7.03	10.1	3.41	1.9	0.86	0.26	2.25	3.62
Standard Deviation	8.00179467	9.70482137	19.0677646	0.37133779	2.11271859	0.3077947	3.58772831	1.03655866	0.54857034	0.25960164	0.04757391	0.46060028	1.15939476
Sample Variance	64.0287179	94.1835578	363.579648	0.13789175	4.46357983	0.09473757	12.8717944	1.07445385	0.30092942	0.06739312	0.00226328	0.21215262	1.3441962
Skewness	0.64848901	0.32146606	-0.4519283	3.30409784	0.14072602	0.14122695	0.58245527	0.16839972	0.33210691	0.95575314	0.26551055	0.34930168	1.11292249
Range	21.7	36.9	90	2.35	6.7	1.35	15.1	3.89	2.24	1.38	0.22	2.06333333	5.48
Minimum	0	19.1	10	0.15	8	6.05	1.7	1.3	1.39	0.37	0.15	0.86	1.67
Maximum	21.7	56	100	2.5	14.7	7.4	16.8	5.19	3.63	1.75	0.37	2.92333333	7.15
Count	40	55	55	55	35	56	54	56	55	56	55	55	55
Confidence Level(95.0%)	2.55909557	2.62358299	5.15474331	0.10038675	0.72574375	0.08242794	0.97926086	0.27759215	0.14829947	0.06952181	0.01286104	0.12451781	0.31342858

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	6.51460606	0.00511155	0.03657716	0.20211313	2.34398667	0.13731515	0.00013081	0.01136055	0.02636364	5.6364E-05	0.00010646	0.00026235
Standard Error	8.01E-307	0.23112022	0.00033973	0.0046747	0.00902926	0.1610223	0.00774528	1.2247E-05	0.00040309	0.00077258	2.2677E-06	1.1801E-05	3.6353E-05
Median	0.025	6.5	0.0048	0.023	0.192	2.49	0.137	0.0001	0.0108	0.025	0.00005	0.0001	0.0002
Mode		7.4	0.0053	0.005	0.143	1.24	0.14	0.0001	0.0107	0.025	0.00005	0.00005	0.0002
Standard Deviation		1.7140334	0.0025423	0.03435187	0.06384651	1.14992923	0.05744056	7.0356E-05	0.00298937	0.0057296	1.6817E-05	8.6718E-05	0.00026714
Sample Variance		2.93791049	6.4633E-08	0.00118005	0.00407638	1.32233724	0.00329942	4.95E-09	8.9363E-06	3.2828E-05	2.8283E-10	7.5201E-09	7.1365E-08
Skewness		0.40059073	1.73467673	0.92195012	0.66096555	0.13247787	0.97380036	0.96417833	0.25847646	4.03400225	2.29994035	2.80840215	4.77552326
Range	0	8.8	0.0153	0.1375	0.31501	3.77	0.29066667	0.00025	0.0121	0.025	0.00005	0.00045	0.0018
Minimum	0.025	2.4	0.0004	0.0025	0.08699	0.65	0.02033333	0.00005	0.006	0.025	0.00005	0.00005	0.0001
Maximum	0.025	11.2	0.0157	0.14	0.402	4.42	0.311	0.0003	0.0181	0.05	0.0001	0.0005	0.0019
Count	1	55	56	54	50	51	55	33	55	55	55	54	54
Confidence Level(95.0%)		0.46336854	0.00068083	0.00937625	0.01814497	0.32342294	0.01552837	2.4947E-05	0.00080814	0.00154893	4.5464E-06	2.367E-05	7.2916E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00122648	0.32101543	0.00407778	0.00024497	0.01823043	6.3889E-05	0.00020043	0.00024623	0.00011014	0.01778012	0.00032469	0.00242951
Standard Error	0.00044696	0.0180643	0.00018665	1.3615E-05	0.0024016	5.0186E-06	1.603E-05	3.496E-05	1.2519E-05	0.00088808	1.9509E-05	0.0013284
Median	0.0004	0.3025	0.005	0.0002	0.0112	0.00005	0.0002	0.0002	0.0001	0.0174	0.0003	0.001
Mode	0.0004	0.27	0.005	0.0002	0.0082	0.00005	0.0001	0.0001	0.0001	0.0163	0.0003	0.001
Standard Deviation	0.00328449	0.13274498	0.00125207	9.9119E-05	0.01764809	3.6879E-05	0.0001178	0.0002569	6.0038E-05	0.00652602	0.00014336	0.00976172
Sample Variance	1.0788E-05	0.01762123	1.5677E-06	9.8246E-09	0.00031145	1.3601E-09	1.3876E-08	6.5998E-08	3.6045E-09	4.2589E-05	2.0553E-08	9.5291E-05
Skewness	5.12173409	1.36019952	-0.4664076	0.29027063	2.01623322	3.01841287	1.23552617	3.84615422	1.65239328	0.35361853	2.10414873	7.30504523
Range	0.0203	0.75983333	0.0035	0.00045	0.07493333	0.00015	0.00049	0.0016	0.00025	0.02596667	0.0009	0.0725
Minimum	0.0001	0.08216667	0.0025	0.00005	0.00356667	0.00005	0.0001	0.0001	0.00005	0.0066	0.0001	0.0002
Maximum	0.0204	0.842	0.006	0.0005	0.0785	0.0002	0.00059	0.0017	0.0003	0.03256667	0.001	0.0727
Count	54	54	45	53	54	54	54	54	23	54	54	54
Confidence Level(95.0%)	0.00089649	0.03623239	0.00037616	2.7321E-05	0.004817	1.0066E-05	3.2152E-05	7.0121E-05	2.5962E-05	0.00178126	3.913E-05	0.00266443

Descriptive Statistics for Humber Canal- NF02YK0022

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD	FD
Mean	6.05555556	39.4306667	21.3333333	0.51609524	11.6322581	6.9363964	9.83240741	3.9736036	2.05135135	0.8084682	0.25	2.06555556	2.60361111	
Standard Error	1.00496394	2.23821683	1.6523192	0.15274607	0.24329225	0.05097831	1.0878919	0.2939383	0.03614966	0.0729278	0.00432844	0.03594308	0.08153806	65535
Median	4	37.2	20	0.33	11.9	6.96	9.15	3.7	2	0.74	0.24666667	2.085	2.76	
Mode	9.4	37.2	20	0.35	13.4	6.75	9.4	3.7	1.98	0.75	0.25	2.24	2.87	
Standard Deviation	5.2219458	13.2414693	9.7752522	0.90365796	1.35459394	0.31008897	6.52735142	1.78795686	0.21988979	0.44360247	0.02632888	0.21565846	0.48922834	
Sample Variance	27.2687179	175.33651	95.5555556	0.8165977	1.83492473	0.09615517	42.6063166	3.19678974	0.04835152	0.19678315	0.00069321	0.04650857	0.23934437	
Skewness	0.70493388	5.78538474	1.93309476	5.54233615	-0.364213	-0.3921936	5.57226066	5.98155316	5.20353816	6.05422092	2.92608659	-1.1197281	4.29070739	
Range	17	81.8	50	5.43333333	4.3	1.43	45	11.27	1.4	2.77	0.15	1.13	3.33	0
Minimum	0.1	33.2	10	0.16666667	9.1	6.18	2.1	3.23	1.89	0.66	0.22	1.36	2.05	0
Maximum	17.1	115	60	5.6	13.4	7.61	47.1	14.5	3.29	3.43	0.37	2.49	5.38	0
Count	27	35	35	35	31	37	36	37	37	37	37	36	36	0
Confidence Level(95.0%)	2.06573431	4.54860088	3.35791441	0.31041717	0.49686856	0.10338868	2.20854068	0.59613371	0.07331481	0.14790423	0.00877847	0.07296841	0.16553126	

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.81247619	0.00244414	0.10857843	0.19547312	3.01873874	0.06520343	8.8172E-05	0.00603056	0.025	0.00005	6.0952E-05	0.00016762
Standard Error	0.09712923	0.00021362	0.00564082	0.00628491	0.0626526	0.00276006	9.0859E-06	0.00011341	0	3.5503E-13	5.2457E-06	1.3423E-05
Median	3.9	0.0024	0.11	0.191	3.04333333	0.0635	0.0001	0.0058	0.025	0.00005	0.00005	0.0002
Mode	3.9	0.0015	0.11	0.165	3.01	0.063	0.00005	0.0057	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.57462426	0.00129941	0.03289134	0.03499289	0.38110087	0.01656036	5.0588E-05	0.00068045	0	2.1302E-12	3.1034E-05	7.9412E-05
Sample Variance	0.33019303	1.6885E-06	0.00108184	0.0012245	0.14523787	0.00027425	2.5591E-09	4.6301E-07	0	4.5377E-24	9.6312E-10	6.3063E-09
Skewness	0.72281792	0.58629841	-1.0821646	0.68385311	-4.6527731	0.28844444	1.73743389	0.86397183	-1.0440141	1.04401408	3.34676114	1.68057936
Range	2.53333333	0.0057	0.165	0.151	2.5	0.103	0.0002	0.0026	0	0	0.00015	0.00036667
Minimum	2.9	0.0002	0.005	0.136	0.94	0.011	0.00005	0.0049	0.025	0.00005	0.00005	0.0001
Maximum	5.43333333	0.0059	0.17	0.287	3.44	0.114	0.00025	0.0075	0.025	0.00005	0.0002	0.00046667
Count	35	37	34	31	37	36	31	36	36	36	35	35
Confidence Level(95.0%)	0.19739021	0.00043324	0.01147634	0.01283548	0.12706519	0.00560323	1.8556E-05	0.00023023	0	7.2075E-13	1.0661E-05	2.7279E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00337467	0.05426286	0.00368056	0.00016048	0.0063581	7.5238E-05	0.00025238	0.0001781	9.2424E-05	0.01494381	0.00012571	0.00048886
Standard Error	0.00167061	0.0045968	0.00021096	1.1677E-05	0.00084577	6.7768E-06	3.6137E-05	3.8505E-05	9.2872E-06	0.00017377	9.7193E-06	0.00012691
Median	0.0004	0.0455	0.0025	0.00016667	0.0046	0.00005	0.0002	0.0001	0.0001	0.0147	0.0001	0.0003
Mode	0.0004	0.0299	0.0025	0.0002	0.0024	0.00005	0.0002	0.0001	0.0001	0.0152	0.0001	0.0001
Standard Deviation	0.00988343	0.02719506	0.00126577	6.9084E-05	0.00500367	4.0092E-05	0.00021379	0.0002278	4.3561E-05	0.00102803	5.75E-05	0.00075083
Sample Variance	9.7682E-05	0.00073957	1.6022E-06	4.7726E-09	2.5037E-05	1.6074E-09	4.5705E-08	5.1892E-08	1.8975E-09	1.0568E-06	3.3063E-09	5.6375E-07
Skewness	3.69276403	1.78117412	0.11618099	1.23944622	1.75733286	1.87728418	3.96767156	4.10181527	1.23714326	1.50642265	1.07745088	3.82980457
Range	0.0484	0.1219	0.0025	0.00035	0.0207	0.00015	0.00123333	0.0012	0.00015	0.0044	0.00025	0.004
Minimum	0.0001	0.0261	0.0025	0.00005	0.0017	0.00005	0.0001	0.0001	0.00005	0.0138	0.00005	0.0001
Maximum	0.0485	0.148	0.005	0.0004	0.0224	0.0002	0.00133333	0.0013	0.0002	0.0182	0.0003	0.0041
Count	35	35	36	35	35	35	35	35	22	35	35	35
Confidence Level(95.0%)	0.00339508	0.00934182	0.00042828	2.3731E-05	0.00171882	1.3772E-05	7.3438E-05	7.8251E-05	1.9314E-05	0.00035314	1.9752E-05	0.00025792

Descriptive Statistics for Lower Humber River

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD	FD
Mean	6.8591	41.5713	30.2500	0.4484	11.5902	6.8646	9.6078	4.0747	2.3192	0.8544	0.2628	2.1434	3.4230	0.0500
Standard Error	0.8731	0.4018	0.8455	0.0743	0.1933	0.0310	0.1832	0.0335	0.0407	0.0063	0.0022	0.0408	0.0781	0.0000
Median	5.3500	40.7500	30.0000	0.3367	11.6000	6.8800	9.6000	4.0400	2.3600	0.8500	0.2600	2.1467	3.3150	0.0500
Mode	0.6000	39.4000	30.0000	0.1800	13.0000	6.7000	9.6000	3.9600	2.3800	0.8200	0.2600	2.2000	3.3400	
Standard Deviation	5.7914	3.0602	6.4390	0.5655	1.3803	0.2381	1.3955	0.2574	0.3100	0.0483	0.0164	0.3105	0.5948	
Sample Variance	33.5401	9.3647	41.4613	0.3198	1.9053	0.0567	1.9474	0.0663	0.0961	0.0023	0.0003	0.0964	0.3538	
Skewness	0.6241	1.7585	-0.1189	6.2048	-0.1211	-0.6525	-2.0429	0.6277	-5.3253	0.1722	1.4877	-3.1130	3.7931	
Range	18.7000	20.2000	23.0000	4.3200	4.7000	1.0400	8.2667	1.3067	2.4700	0.1933	0.0800	2.4700	4.0900	0.0000
Minimum	0.0000	35.0000	17.0000	0.0800	9.1000	6.2200	3.6000	3.6033	0.2500	0.7567	0.2400	0.3600	2.7100	0.0500
Maximum	18.7000	55.2000	40.0000	4.4000	13.8000	7.2600	11.8667	4.9100	2.7200	0.9500	0.3200	2.8300	6.8000	0.0500
Count	44.0000	58.0000	58.0000	58.0000	51.0000	59.0000	58.0000	59.0000	58.0000	59.0000	58.0000	58.0000	58.0000	1.0000
Confidence Level(95.0%)	1.7607	0.8046	1.6931	0.1487	0.3882	0.0621	0.3669	0.0671	0.0815	0.0126	0.0043	0.0816	0.1564	

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.4475	0.0038	0.0933	0.2025	2.7538	0.0777	0.0001	0.0082	0.0305	0.0001	0.0001	0.0003
Standard Error	0.0883	0.0002	0.0050	0.0044	0.0352	0.0026	0.0000	0.0001	0.0015	0.0000	0.0000	0.0001
Median	4.4833	0.0037	0.1000	0.2082	2.7000	0.0740	0.0001	0.0081	0.0250	0.0001	0.0001	0.0002
Mode	4.7000	0.0043	0.0900	0.1240	2.6300	0.0680	0.0001	0.0077	0.0250	0.0001	0.0001	0.0001
Standard Deviation	0.6726	0.0016	0.0376	0.0320	0.2560	0.0195	0.0001	0.0005	0.0112	0.0000	0.0000	0.0004
Sample Variance	0.4524	0.0000	0.0014	0.0010	0.0656	0.0004	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000
Skewness	1.7476	0.6160	-0.5935	-0.7111	0.3783	3.2863	0.9605	0.5461	1.7540	1.3584	1.4861	5.7689
Range	4.4000	0.0085	0.1750	0.1465	0.9800	0.1330	0.0002	0.0025	0.0450	0.0001	0.0002	0.0030
Minimum	3.2000	0.0004	0.0050	0.1235	2.3200	0.0510	0.0001	0.0071	0.0250	0.0001	0.0001	0.0001
Maximum	7.6000	0.0089	0.1800	0.2700	3.3000	0.1840	0.0003	0.0096	0.0700	0.0001	0.0002	0.0031
Count	58.0000	59.0000	57.0000	52.0000	53.0000	58.0000	34.0000	58.0000	58.0000	58.0000	57.0000	57.0000
Confidence Level(95.0%)	0.1769	0.0004	0.0100	0.0089	0.0706	0.0051	0.0000	0.0001	0.0029	0.0000	0.0000	0.0001

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.0007	0.0836	0.0051	0.0002	0.0060	0.0001	0.0002	0.0002	0.0001	0.0200	0.0002	0.0005
Standard Error	0.0001	0.0035	0.0004	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
Median	0.0005	0.0800	0.0050	0.0002	0.0055	0.0001	0.0002	0.0001	0.0001	0.0198	0.0001	0.0005
Mode	0.0005	0.1130	0.0050	0.0002	0.0052	0.0001	0.0002	0.0001	0.0001	0.0205	0.0002	0.0005
Standard Deviation	0.0008	0.0267	0.0030	0.0001	0.0023	0.0000	0.0002	0.0002	0.0000	0.0011	0.0001	0.0003
Sample Variance	0.0000	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Skewness	3.2370	2.7978	2.2911	0.5768	2.4503	1.1129	3.2596	2.5132	1.0843	0.5091	0.9080	0.9917
Range	0.0046	0.1772	0.0155	0.0004	0.0141	0.0002	0.0011	0.0010	0.0002	0.0045	0.0004	0.0013
Minimum	0.0001	0.0418	0.0025	0.0001	0.0030	0.0001	0.0001	0.0001	0.0001	0.0183	0.0001	0.0001
Maximum	0.0047	0.2190	0.0180	0.0004	0.0171	0.0002	0.0012	0.0011	0.0002	0.0228	0.0004	0.0014
Count	57.0000	57.0000	46.0000	56.0000	57.0000	57.0000	57.0000	57.0000	23.0000	57.0000	57.0000	57.0000
Confidence Level(95.0%)	0.0002	0.0071	0.0009	0.0000	0.0006	0.0000	0.0000	0.0001	0.0000	0.0003	0.0000	0.0001

Descriptive Statistics for Wild Cove Brook-NF02YL0029

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	4.839655	431.8905	34.48198	4.314324	6.752736	7.379289	153.5505	40.56933	22.3953	14.08284	5.473516	7.811422	33.47689
Standard Error	0.660336	7.974037	2.400617	0.72354	0.476473	0.052352	2.890324	0.547892	0.636985	0.255878	0.192873	0.242073	1.023923
Median	3.2	432.5	30	2.025	6.8	7.26	155	40.9	21.4	14.5	5.6	7.89	31.6
Mode	0	416	30	1.2	9.6	7.06	151	41.8	16.3	12.2	2.7	10.1	28.2
Standard Deviation	5.028967	68.59526	20.65089	6.224126	3.9001	0.453382	24.86351	4.744887	5.442399	2.215966	1.647907	2.096416	8.867435
Sample Variance	25.29051	4705.31	426.4593	38.73975	15.21078	0.205556	618.194	22.51396	29.6197	4.910505	2.715598	4.394959	78.63141
Skewness	0.712104	0.055688	1.3718	3.229465	0.193669	0.310907	0.07559	-0.45535	0.562719	-0.39631	-0.07625	0.559373	0.959259
Range	15.4	291	97.5	38.15	12.3	2.01	141	22.8	25.7	9.36	6.94	12.58	45.6
Minimum	0	287	2.5	0.25	1.2	6.32	90	27.3	13.1	8.94	2.2	3.02	19.2
Maximum	15.4	578	100	38.4	13.5	8.33	231	50.1	38.8	18.3	9.14	15.6	64.8
Count	58	74	74	74	67	75	74	75	73	75	73	75	75
Confidence Level(95.0%)	1.3223	15.89224	4.784427	1.442014	0.951309	0.104314	5.760411	1.0917	1.269805	0.509848	0.384485	0.482341	2.040212

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	8.047838	0.084782	1.719013	3.011846	3.820844	0.186527	0.000149	0.021019	0.027778	7.82E-05	0.000365	0.00049
Standard Error	0.299724	0.010729	0.197954	0.24208	0.104536	0.026601	1.2E-05	0.000765	0.001203	4.98E-06	2.1E-05	4.72E-05
Median	7.65	0.05285	1.075	2.593333	3.91	0.1065	0.0001	0.02075	0.025	0.00005	0.0003	0.0004
Mode	8.8	0.0045	0.01	3.06	4.03	0.031	0.0001	0.0143	0.025	0.00005	0.0003	0.0003
Standard Deviation	2.578323	0.092296	1.702867	1.981509	0.905305	0.225716	9.16E-05	0.006488	0.010205	4.23E-05	0.000178	0.000401
Sample Variance	6.647751	0.008518	2.899756	3.926378	0.819578	0.050948	8.39E-09	4.21E-05	0.000104	1.79E-09	3.17E-08	1.61E-07
Skewness	1.421801	2.108721	1.326834	0.955876	-0.7124	3.853881	1.576745	0.713972	4.318574	2.693744	2.428981	3.805961
Range	16	0.4876	7.585	8.285	5.68	1.547	0.00045	0.0315	0.065	0.00025	0.00125	0.0029
Minimum	3	0.0014	0.005	0.195	0.27	0.023	0.00005	0.0113	0.025	0.00005	0.00005	0.0001
Maximum	19	0.489	7.59	8.48	5.95	1.57	0.0005	0.0428	0.09	0.0003	0.0013	0.003
Count	74	74	74	67	75	72	58	72	72	72	72	72
Confidence Level(95.0%)	0.597349	0.021383	0.394523	0.483328	0.208292	0.053041	2.41E-05	0.001525	0.002398	9.94E-06	4.18E-05	9.42E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.001028	0.485561	0.004997	0.004129	0.381016	0.000242	0.000625	0.000217	0.000108	0.07815	0.000599	0.005132
Standard Error	0.000242	0.044188	0.000329	0.000187	0.14054	2.68E-05	6.2E-05	2.78E-05	9.61E-06	0.00165	6.57E-05	0.000828
Median	0.000545	0.4105	0.005	0.00415	0.2115	0.0002	0.00059	0.0001	0.0001	0.0793	0.0004	0.0029
Mode	0.00059	0.269	0.005	0.0028	0.0635	0.0002	0.0001	0.0001	0.0001	0.0716	0.0004	0.0004
Standard Deviation	0.002055	0.374947	0.002771	0.001591	1.192518	0.000227	0.000526	0.000236	6.37E-05	0.014003	0.000557	0.007029
Sample Variance	4.22E-06	0.140585	7.68E-06	2.53E-06	1.4221	5.16E-08	2.77E-07	5.58E-08	4.06E-09	0.000196	3.11E-07	4.94E-05
Skewness	3.831815	2.793225	2.58507	0.462176	8.081595	5.651443	3.440829	3.032727	2.580597	0.011622	3.714056	3.15096
Range	0.0099	2.4149	0.0175	0.0068	10.1919	0.00185	0.0037	0.0013	0.00035	0.0635	0.00395	0.0376
Minimum	0.0001	0.0651	0.0025	0.0018	0.0081	0.00005	0.0001	0.0001	0.00005	0.0495	0.00005	0.0004
Maximum	0.01	2.48	0.02	0.0086	10.2	0.0019	0.0038	0.0014	0.0004	0.113	0.004	0.038
Count	72	72	71	72	72	72	72	72	44	72	72	72
Confidence Level(95.0%)	0.000483	0.088108	0.000656	0.000374	0.280228	5.34E-05	0.000124	5.55E-05	1.94E-05	0.003291	0.000131	0.001652

Descriptive Statistics for Corner Brook- NF02YL0013

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.89	101.0748	27.50476	0.439936	12.27849	7.428978	33.45928	12.26221	3.61133	1.923349	0.392388	2.772107	6.057877
Standard Error	0.665106	4.531967	1.014038	0.040336	0.196723	0.031347	1.1761	0.375548	0.108797	0.057181	0.004013	0.046947	0.214106
Median	4.1	93.9	30	0.345	12.8	7.475	32.2	11.7	3.34	1.853333	0.388333	2.72	5.5075
Mode	0.1	109	20	0.23	14.4	7.53	34	10.2	3.13	2.16	0.38	2.91	4.64
Standard Deviation	5.948888	46.43885	10.3908	0.411344	1.897129	0.322735	12.10869	3.884696	1.109517	0.591487	0.040921	0.483353	2.204358
Sample Variance	35.38927	2156.567	107.9687	0.169204	3.599098	0.104158	146.6204	15.09086	1.231028	0.349856	0.001675	0.23363	4.859196
Skewness	0.602242	5.753588	0.222307	4.614437	-0.322702	-0.631485	0.950683	0.952995	4.058143	1.020578	1.21607	-1.116302	3.716208
Range	18.2	437.3	47.5	3.48	7.9	1.63	72.8	20.32	9.33	3.18	0.23	4.155	16.82
Minimum	0	50.7	2.5	0.02	8.1	6.51	5.8	5.78	2.17	0.92	0.31	0.005	3.78
Maximum	18.2	488	50	3.5	16	8.14	78.6	26.1	11.5	4.1	0.54	4.16	20.6
Sum	471.2	10612.85	2888	45.75333	1141.9	787.4717	3546.683	1312.057	375.5783	205.7983	40.80833	293.8433	642.135
Count	80	105	105	104	93	106	106	107	104	107	104	106	106
Confidence Level(95.0%)	1.323861	8.98705	2.010873	0.079996	0.390709	0.062155	2.33199	0.74456	0.215773	0.113367	0.007958	0.093088	0.424533

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.212358	0.003701	0.115928	0.216655	1.945714	0.114415	8.65E-05	0.004451	0.027857	5.79E-05	0.000113	0.000188
Standard Error	0.129768	0.000315	0.004405	0.005294	0.020576	0.010012	5.88E-06	0.000168	0.00078	1.86E-06	1.21E-05	1.54E-05
Median	4	0.0029	0.112	0.211	1.946667	0.089	0.0001	0.0042	0.025	0.00005	0.0001	0.0001
Mode	4	0.0029	0.12	0.182	1.76	0.084	0.00005	0.0042	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.336048	0.003256	0.045142	0.052671	0.203691	0.102597	4.7E-05	0.001725	0.007992	1.91E-05	0.000123	0.000157
Sample Variance	1.785023	1.06E-05	0.002038	0.002774	0.04149	0.010526	2.21E-09	2.98E-06	6.39E-05	3.64E-10	1.52E-08	2.45E-08
Skewness	5.43749	3.38632	0.125056	-0.32213	0.253575	4.948531	1.631023	7.059542	2.459954	2.119988	4.149	2.744168
Range	12.2	0.022	0.238333	0.33	1.46	0.77	0.0002	0.0166	0.025	8.33E-05	0.00085	0.0009
Minimum	2.8	0.0001	0.005	0.014	1.27	0.051	0.00005	0.0031	0.025	0.00005	0.00005	0.0001
Maximum	15	0.0221	0.243333	0.344	2.73	0.821	0.00025	0.0197	0.05	0.000133	0.0009	0.001
Sum	446.51	0.396027	12.17249	21.44883	190.68	12.01359	0.005533	0.46739	2.925	0.006083	0.011767	0.01959
Count	106	107	105	99	98	105	64	105	105	105	104	104
Confidence Level(95.0%)	0.257307	0.000624	0.008736	0.010505	0.040837	0.019855	1.17E-05	0.000334	0.001547	3.69E-06	2.4E-05	3.04E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000889	0.117581	0.004559	0.000377	0.011406	7.19E-05	0.000258	0.000256	9.48E-05	0.020366	0.000214	0.001073
Standard Error	0.000161	0.016726	0.000203	1.68E-05	0.002149	5.93E-06	2.32E-05	3.5E-05	7.49E-06	0.000485	1.85E-05	8.28E-05
Median	0.0005	0.07436	0.005	0.0004	0.00725	0.00005	0.0002	0.0001	0.0001	0.01925	0.0002	0.0009
Mode	0.0003	0.0603	0.005	0.0004	0.0065	0.00005	0.0001	0.0001	0.0001	0.0238	0.0002	0.0008
Standard Deviation	0.001644	0.17057	0.001871	0.000171	0.021919	6.04E-05	0.000236	0.000357	5.02E-05	0.004946	0.000188	0.000844
Sample Variance	2.7E-06	0.029094	3.5E-06	2.92E-08	0.00048	3.65E-09	5.57E-08	1.27E-07	2.52E-09	2.45E-05	3.55E-08	7.12E-07
Skewness	6.822369	4.833647	1.370444	2.421197	8.535182	6.516731	3.071859	5.439847	2.028275	1.120825	3.707661	2.833022
Range	0.015	1.2203	0.0095	0.00125	0.2161	0.00054	0.0013	0.003	0.00025	0.0266	0.00135	0.005
Minimum	0.0001	0.0297	0.0025	0.00005	0.0029	0.00005	0.0001	0.0001	0.00005	0.0123	0.00005	0.0002
Maximum	0.0151	1.25	0.012	0.0013	0.219	0.00059	0.0014	0.0031	0.0003	0.0389	0.0014	0.0052
Sum	0.09244	12.22844	0.3875	0.03888	1.18619	0.007473	0.026867	0.02659	0.004267	2.1181	0.0223	0.11162
Count	104	104	85	103	104	104	104	104	45	104	104	104
Confidence Level(95.0%)	0.00032	0.033172	0.000404	3.34E-05	0.004263	1.18E-05	4.59E-05	6.94E-05	1.51E-05	0.000962	3.66E-05	0.000164

Descriptive Statistics for Pinchgut Brook- NF02YJ0004

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD	FD
Mean	6.73855422	172.9875	14.4070513	0.30987179	11.709375	7.79650794	74.0606349	25.5054487	3.91498382	3.82222222	0.25343042	3.26806349	6.55098413	0.025
Standard Error	0.71080993	1.632582	0.64369427	0.01792053	0.18529302	0.03033638	0.93507728	0.1874817	0.03284575	0.06215702	0.00253096	0.29053922	0.10730788	8.01E-307
Median	4.1	177.5	10	0.28	11.85	7.84333333	76.8	25.95	3.93	3.93	0.25	3.01	6.43	0.025
Mode	0.2	180	10	0.3	9.4	7.89	78.6	26.4	3.79	3.7	0.25	3.13	6.75	
Standard Deviation	6.47578663	16.6491349	6.56441926	0.18275426	1.81549344	0.31085538	9.58169081	1.9119457	0.333348	0.63691995	0.02568646	2.97714107	1.09957858	
Sample Variance	41.9358125	277.193694	43.0916003	0.03339912	3.29601645	0.09663106	91.8087987	3.65553637	0.11112089	0.40566702	0.00065979	8.86336897	1.20907306	
Skewness	0.62747807	-1.6769178	0.42270598	1.43087656	-0.2536809	-1.0541734	-3.2865956	-0.8683827	-0.378116	-0.7561622	-0.4574876	10.0551276	-0.008404	
Range	21.7	106.8	25	1	6.3	1.64	76.3	8.9	2.6	2.98	0.18	32.12	8.37	0
Minimum	0	96.2	5	0	8.2	6.75	9.4	19.4	2.45	2.12	0.14	1.18	2.23	0.025
Maximum	21.7	203	30	1	14.5	8.39	85.7	28.3	5.05	5.1	0.32	33.3	10.6	0.025
Count	83	104	104	104	96	105	105	104	103	105	103	105	105	1
Confidence Level(95.0%)	1.4140281	3.23783839	1.2766146	0.03554111	0.3678529	0.0601581	1.85429093	0.3718254	0.06514936	0.12325955	0.00502015	0.57614943	0.21279528	

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	3.74878205	0.00311483	0.09913131	0.19072569	1.49821053	0.02700942	7.2951E-05	0.00331699	0.02596154	5.1923E-05	9.1748E-05	0.00016699
Standard Error	0.20242311	0.00024733	0.00836663	0.00436137	0.01896119	0.00229985	4.3062E-06	4.6738E-05	0.00047372	9.4743E-07	6.8841E-06	2.5003E-05
Median	3.5	0.0026	0.09	0.1935	1.49	0.02	0.00005	0.00321667	0.025	0.00005	0.00005	0.0001
Mode	3.7	0.0023	0.09	0.182	1.41	0.019	0.00005	0.0034	0.025	0.00005	0.00005	0.0001
Standard Deviation	2.0643188	0.00253442	0.08532318	0.04273249	0.18481082	0.023454	3.3633E-05	0.00047664	0.00483097	9.6619E-06	6.7836E-05	0.00025375
Sample Variance	4.26141209	6.4233E-06	0.00728004	0.00182607	0.03415504	0.00055009	1.1311E-09	2.2718E-07	2.3338E-05	9.3353E-11	4.6017E-09	6.439E-08
Skewness	6.41563863	3.59431859	8.14085144	-0.6158288	0.05649798	3.56726321	1.85238532	2.94628326	4.8705314	4.8705314	2.42786853	6.18405208
Range	19.1	0.0171	0.895	0.286	0.86	0.13401	0.00015	0.0037	0.025	0.00005	0.00035	0.0021
Minimum	1.7	0.0003	0.005	0.014	1.14	0.00899	0.00005	0.0025	0.025	0.00005	0.00005	0.0001
Maximum	20.8	0.0174	0.9	0.3	2	0.143	0.0002	0.0062	0.05	0.0001	0.0004	0.0022
Count	104	105	104	96	95	104	61	104	104	104	103	103
Confidence Level(95.0%)	0.40145813	0.00049047	0.01659321	0.0086584	0.03764787	0.00456121	8.6137E-06	9.2694E-05	0.0009395	1.879E-06	1.3258E-05	4.9593E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00088817	0.04764812	0.01082941	0.00033281	0.00453269	8.7055E-05	0.00019123	0.00019709	8.5556E-05	0.04878657	9.3042E-05	0.0004079
Standard Error	0.00015446	0.00344776	0.00674173	1.1681E-05	0.00022199	4.8013E-06	1.3044E-05	2.3166E-05	8.1993E-06	0.00033083	8.6975E-06	3.7216E-05
Median	0.0005	0.0405	0.005	0.0003	0.004	0.0001	0.0001	0.0001	0.00005	0.0486	0.00005	0.0003
Mode	0.0003	0.0282	0.005	0.0003	0.0036	0.00005	0.0001	0.0001	0.00005	0.0464	0.00005	0.0001
Standard Deviation	0.00156757	0.03499095	0.0621557	0.00011797	0.00225291	4.8727E-05	0.00013239	0.00023511	5.5002E-05	0.00335757	8.827E-05	0.0003777
Sample Variance	2.4573E-06	0.00122437	0.00386333	1.3917E-08	5.0756E-06	2.3744E-09	1.7526E-08	5.5275E-08	3.0253E-09	1.1273E-05	7.7915E-09	1.4266E-07
Skewness	5.31276106	3.60714544	9.21280099	1.15662078	2.60311528	1.78665602	1.67742178	3.33304958	2.11245317	0.17452681	2.63378036	2.78611206
Range	0.0116	0.2511	0.5745	0.00065	0.0145	0.00025	0.0006	0.0014	0.00025	0.0183	0.00045	0.0026
Minimum	0.0001	0.0089	0.0025	0.00005	0.0021	0.00005	0.0001	0.0001	0.00005	0.0395	0.00005	0.0001
Maximum	0.0117	0.26	0.577	0.0007	0.0166	0.0003	0.0007	0.0015	0.0003	0.0578	0.0005	0.0027
Count	103	103	85	102	103	103	103	103	45	103	103	103
Confidence Level(95.0%)	0.00030636	0.00683861	0.01340668	2.3172E-05	0.00044031	9.5233E-06	2.5874E-05	4.5949E-05	1.6525E-05	0.0006562	1.7251E-05	7.3818E-05

Descriptive Statistics for Harry's River- NF02YJ0006

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.625471698	153.9412805	23.45739514	0.522905405	12.9509804	7.781351351	64.01853933	21.65063927	4.00451049	3.943153153	0.342319277	3.074101655	6.727881944
Standard Error	0.594347531	2.107876417	1.75036087	0.055482881	0.30268566	0.023732089	1.285332764	0.305886532	0.132405449	0.062608748	0.008546052	0.043722487	0.242702009
Median	6	156	16.66666667	0.3	13.4	7.813333333	66.23333333	22.16666667	3.9	4	0.32	3.06	6.461666667
Mode	16	164	10	0.3	13.4	7.8	76.7	23	3.9	4.1	0.32	3.1	7.2
Standard Deviation	6.11918235	25.90201906	21.50879447	0.674978377	2.16160797	0.288713318	12.12580504	3.696041028	1.583338879	0.761668295	0.102195918	0.519175763	2.912424102
Sample Variance	37.44439263	670.9145912	462.6282394	0.45559581	4.67254902	0.08335538	147.035148	13.66071928	2.506962004	0.580138592	0.010444006	0.269543473	8.48221415
Skewness	0.422746743	-0.969091171	2.849823345	4.262186164	0.39580661	-1.624550065	-0.954736068	-1.536212534	7.900498726	-0.850774903	2.649969666	0.69249216	7.047667341
Range	21.5	208	157.5	4.73	11.4	1.7	67.7	25.9	17.6	4.95	0.85	3.9	32.97
Minimum	0	30	2.5	0.07	8.6	6.61	20.2	2.4	2.4	0.65	0.15	1.7	2.43
Maximum	21.5	238	160	4.8	20	8.31	87.9	28.3	20	5.6	1	5.6	35.4
Count	106	151	151	148	51	148	89	146	143	148	143	141	144
Confidence Level(95.0%)	1.1784822	4.164962549	3.458545962	0.109647041	0.60796229	0.046900111	2.554330746	0.604572286	0.261740345	0.123729408	0.016893916	0.086441762	0.479746933

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.028214286	3.354943503	0.004619615	0.150049482	0.21733901	2.192411348	0.07932303	0.000266	0.007359293	0.031060606	7.57576E-05	0.00014798	0.000455556
Standard Error	0.001007404	0.161163842	0.000495873	0.005694985	0.00714408	0.052426066	0.030784902	9.40385E-06	0.000300856	0.001893939	9.00369E-06	3.42961E-05	8.96785E-05
Median	0.025	2.9	0.0027	0.14	0.2	2.16	0.036	0.00025	0.0071	0.025	0.00005	0.0001	0.0002
Mode	0.025	2.4	0.001	0.12	0.2	2.5	0.042	0.00025	0.0065	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.008428545	1.750687437	0.006012139	0.069282481	0.0860261	0.508289564	0.176845798	8.14397E-05	0.001728287	0.010879853	5.17222E-05	0.000197016	0.000515164
Sample Variance	7.10404E-05	3.064906502	3.61458E-05	0.004800062	0.00740049	0.258358281	0.031274436	6.63243E-09	2.98697E-06	0.000118371	2.67519E-09	3.88152E-08	2.65394E-07
Skewness	2.268202496	2.62877321	3.15898647	4.170705693	3.00781989	0.392497017	4.904140149	1.93124003	1.500179721	1.260097613	3.11248878	3.93337498	1.731813738
Range	0.025	12.2	0.0395	0.715	0.7	2.3	0.999	0.0004	0.0079	0.025	0.00025	0.00105	0.0019
Minimum	0.025	1.2	0.0005	0.005	0.05	1.2	0.011	0.0001	0.0053	0.025	0.00005	0.00005	0.0001
Maximum	0.05	13.4	0.04	0.72	0.75	3.5	1.01	0.0005	0.0132	0.05	0.0003	0.0011	0.002
Count	70	118	147	148	145	94	33	75	33	33	33	33	33
Confidence Level(95.0%)	0.002009715	0.31917652	0.000980016	0.011254611	0.01412083	0.104107672	0.06270674	1.87376E-05	0.000612823	0.003857825	1.83399E-05	6.98587E-05	0.000182669

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.001410404	0.166562626	0.006571429	0.000384896	0.01533131	5.30303E-05	0.000285859	0.00042697	0.037942424	0.000267576	0.001132525
Standard Error	0.000328427	0.061398566	0.001189303	3.84465E-05	0.0062599	7.59703E-06	5.3103E-05	9.69326E-05	0.001611629	7.7514E-05	0.000247369
Median	0.0007	0.0763	0.005	0.0004	0.0058	0.000025	0.0002	0.0002	0.0394	0.0002	0.0008
Mode	0.0007		0.005	0.0004	0.0044	0.000025	0.0001	0.0001	0.0381	0.00005	0.001
Standard Deviation	0.001886669	0.352707907	0.004449966	0.000217486	0.03596037	4.36416E-05	0.000305054	0.000556835	0.009258106	0.000445284	0.001421025
Sample Variance	3.55952E-06	0.124402868	1.98022E-05	4.73003E-08	0.00129315	1.90459E-09	9.30577E-08	3.10066E-07	8.57125E-05	1.98278E-07	2.01931E-06
Skewness	3.879645788	4.440591808	3.10019949	1.942127836	3.82992751	1.491328058	3.532124757	2.620056197	-0.660685957	4.762201375	3.684044501
Range	0.0105	1.908	0.016	0.00105	0.1673	0.000175	0.0016	0.0026	0.0339	0.00255	0.0077
Minimum	0.0001	0.022	0.005	0.00005	0.0017	0.000025	0.0001	0.0001	0.0182	0.00005	0.0001
Maximum	0.0106	1.93	0.021	0.0011	0.169	0.0002	0.0017	0.0027	0.0521	0.0026	0.0078
Count	33	33	14	32	33	33	33	33	33	33	33
Confidence Level(95.0%)	0.000668983	0.12506468	0.002569333	7.84123E-05	0.01275098	1.54746E-05	0.000108167	0.000197445	0.003282779	0.000157891	0.000503873

Descriptiv Statistics for Lloyd's River- NF02YN0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.837362637	29.2663399	40.52046784	0.394911327	12.00571429	6.614855072	4.755631068	2.338894231	2.14189769	0.515080032	0.245115512	1.939652174	3.229913043
Standard Error	0.76940687	0.60409392	1.05141165	0.023698241	0.204687865	0.028313865	0.198187079	0.068295175	0.040260066	0.011202601	0.003932199	0.277155718	0.07297235
Median	3.7	28.2	40	0.34	12.4	6.58	4.6	2.265	2.08	0.51	0.24	1.62	3.2
Mode	0	30.8	50	0.3	13.1	6.6	5.1	2.69	1.74	0.56	0.21	1.81	2.88
Standard Deviation	7.339673749	6.10104951	11.22600446	0.251915757	2.097426471	0.303632377	2.011379177	0.698476864	0.404608661	0.114244564	0.039518109	2.972183959	0.782541277
Sample Variance	53.87081074	37.2228052	126.0231762	0.063461548	4.399197802	0.09219262	4.045646194	0.485080022	0.163708168	0.01305182	0.001561681	8.833758601	0.61237085
Skewness	0.659342712	0.6922372	-0.169534169	3.685996368	-0.078611357	0.32131897	0.778035725	0.590603544	0.34351597	-0.544781974	0.316884113	10.48247937	0.451107301
Range	22.1	31	46	2.07	11.5	1.9	12.3	5.06	1.88	0.815	0.19	32.41	3.49
Minimum	0	17.5	15	0.03	7.3	5.67	0.5	0.01	1.29	0.005	0.15	0.89	1.67
Maximum	22.1	48.5	61	2.1	18.8	7.57	12.8	5.07	3.17	0.82	0.34	33.3	5.16
Count	91	102	114	113	105	115	103	104	101	104	101	115	115
Confidence Level(95.0%)	1.528559609	1.19835967	2.083035306	0.046954998	0.405903192	0.056089573	0.393102934	0.135447249	0.079874834	0.022217697	0.007801371	0.549043579	0.144557726

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	1.375	4.76339542	0.004656006	0.053099123	0.174006173	2.420106383	0.09981877	0.000238644	0.002901942	0.026456311	5.76052E-05	7.35294E-05	0.000222451
Standard Error	1.325	0.12251775	0.000935841	0.003070484	0.004383346	0.092043666	0.002574276	1.99613E-05	5.6252E-05	0.000579781	2.20298E-06	3.53216E-06	3.52635E-05
Median	1.375	4.7	0.00345	0.05	0.178	2.025	0.098	0.0002	0.0029	0.025	0.00005	0.00005	0.0001
Mode		4.2	0.002	0.04	0.12	1.63	0.063	0.0002	0.0031	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.87383297	1.23736865	0.010079313	0.032783796	0.045553068	0.892396456	0.026126047	0.000153326	0.000570896	0.005884137	2.23578E-05	3.56731E-05	0.000356144
Sample Variance	3.51125	1.53108119	0.000101593	0.001074777	0.002075082	0.796371434	0.00068257	2.35089E-08	3.25922E-07	3.46231E-05	4.99873E-10	1.27257E-09	1.26838E-07
Skewness	#DIV/0!	0.04509919	10.10713281	0.56013297	-0.306844734	0.860761267	-0.154742727	1.489251751	0.048486108	3.828046875	3.68581711	3.025183942	6.12225395
Range	2.65	9.5	0.1097	0.135	0.188	3.43	0.124	0.00075	0.0031	0.025	0.00015	0.00025	0.0029
Minimum	0.05	0.1	0.0003	0.005	0.08	1.42	0.037	0.00005	0.0012	0.025	0.00005	0.00005	0.0001
Maximum	2.7	9.6	0.11	0.14	0.268	4.85	0.161	0.0008	0.0043	0.05	0.0002	0.0003	0.003
Count	2	102	116	114	108	94	103	59	103	103	103	102	102
Confidence Level(95.0%)	16.83564915	0.24304223	0.00185372	0.00608318	0.008689478	0.182780297	0.005106061	3.99569E-05	0.000111576	0.001149993	4.36961E-06	7.00686E-06	6.99533E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000609412	0.12475242	0.004596386	0.000144719	0.006734444	7.10784E-05	0.00015098	0.000194085	9.42029E-05	0.008402288	0.000173203	0.000953137
Standard Error	0.000117428	0.00395452	0.000365905	9.31638E-06	0.00035882	3.44383E-06	1.54368E-05	1.95486E-05	9.31378E-06	0.000175788	8.76686E-06	9.2595E-05
Median	0.0003	0.12866667	0.005	0.0001	0.0058	0.00005	0.0001	0.0001	0.0001	0.00839	0.0002	0.0008
Mode	0.0002	0.154	0.005	0.0001	0.0039	0.00005	0.0001	0.0001	0.0001	0.0092	0.0002	0.0009
Standard Deviation	0.001185966	0.03993867	0.003333549	9.36284E-05	0.003623901	3.4781E-05	0.00015904	0.000197431	6.31691E-05	0.001775374	8.8539E-05	0.000935163
Sample Variance	1.40652E-06	0.0015951	1.11125E-05	8.76628E-09	1.31327E-05	1.20972E-09	2.4306E-08	3.89791E-08	3.99034E-09	3.15195E-06	7.83915E-09	8.7453E-07
Skewness	6.008378415	-0.02079878	6.914292439	2.681425852	1.182534933	2.086661408	5.737987937	3.200922718	2.918842657	0.237829081	0.877777042	4.884173766
Range	0.01	0.1855	0.0295	0.00065	0.0183	0.00015	0.0012	0.0012	0.00035	0.0096	0.00045	0.0068
Minimum	0.0001	0.0405	0.0025	0.00005	0.002	0.00005	0.0001	0.0001	0.00005	0.0045	0.00005	0.0001
Maximum	0.0101	0.226	0.032	0.0007	0.0183	0.0002	0.0013	0.0013	0.0004	0.0141	0.0005	0.0069
Count	102	102	83	101	102	102	102	102	46	102	102	102
Confidence Level(95.0%)	0.000232946	0.0078447	0.000727901	1.84834E-05	0.000711802	6.83163E-06	3.06224E-05	3.87792E-05	1.87589E-05	0.000348716	1.73907E-05	0.000183683

Descriptive Statistics for Crabbe's River-NF02ZA0007

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.650685	104.1133	48.36953	0.838584	12.00247	6.789113	8.860993	5.672007	11.62366	0.971864	0.693993	5.871099	19.16252
Standard Error	0.868792	6.199149	1.95874	0.191157	0.233274	0.035104	0.497346	0.2919	0.805514	0.039259	0.035662	0.325269	1.252027
Median	4	87.9	50	0.46	12.6	6.79	7.6	5.03	9.2	0.97	0.61	5.125	16.93333
Mode	0	157	40	0.26	14.2	7.09	4.3	9	16.5	1.29	0.43	3.34	13.6
Standard Deviation	7.422958	59.78243	18.8894	1.843451	2.099463	0.340348	4.821947	2.814983	7.684116	0.378597	0.34019	3.153597	12.13885
Sample Variance	55.10031	3573.938	356.8094	3.398313	4.407744	0.115837	23.25117	7.924132	59.04564	0.143335	0.115729	9.945173	147.3517
Skewness	0.760856	0.917408	0.332718	6.122886	-0.489161	0.148719	0.500809	0.564451	1.249125	0.159342	1.002567	0.881897	1.188621
Range	24	285.8	97.5	14.54167	7.3	1.65	20.1	12.79	38.49	1.66	1.63	14.01	63.76
Minimum	0	26.2	2.5	0.025	7.6	6.09	1.8	1.41	2.81	0.28	0.23	1.39	3.84
Maximum	24	312	100	14.56667	14.9	7.74	21.9	14.2	41.3	1.94	1.86	15.4	67.6
Count	73	93	93	93	81	94	94	93	91	93	91	94	94
Confidence Level(95.0%)	1.731903	12.31204	3.890226	0.379654	0.46423	0.06971	0.987629	0.579739	1.600293	0.077971	0.070848	0.645918	2.486275

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.551505	0.005112	0.100753	0.252119	2.473298	0.192294	9.98E-05	0.012113	0.026543	6.12E-05	0.000121	0.000366
Standard Error	0.201162	0.000694	0.007121	0.008198	0.105561	0.019856	1.18E-05	0.000516	0.000701	3.22E-06	1.73E-05	7.64E-05
Median	5.2	0.003917	0.08699	0.256667	2.34	0.1575	0.00005	0.0115	0.025	0.00005	0.0001	0.0002
Mode	5.7	0.0038	0.06	0.194	2.43	0.145	0.00005	0.0095	0.025	0.00005	0.00005	0.0002
Standard Deviation	1.939935	0.006724	0.068672	0.076469	1.023448	0.192507	9.32E-05	0.005004	0.006801	3.12E-05	0.000167	0.000737
Sample Variance	3.763346	4.52E-05	0.004716	0.005848	1.047446	0.037059	8.69E-09	2.5E-05	4.63E-05	9.76E-10	2.78E-08	5.44E-07
Skewness	0.845383	6.139314	0.644467	0.476294	0.341433	5.743155	3.364663	0.542895	4.658557	5.207057	5.669179	6.364836
Range	10.4	0.0582	0.295	0.376	3.71	1.678	0.00054	0.0234	0.045	0.00025	0.00135	0.0061
Minimum	2.1	0.0003	0.005	0.099	0.9	0.032	0.00005	0.0038	0.025	0.00005	0.00005	0.0001
Maximum	12.5	0.0585	0.3	0.475	4.61	1.71	0.00059	0.0272	0.07	0.0003	0.0014	0.0062
Count	93	94	93	87	94	94	62	94	94	94	93	93
Confidence Level(95.0%)	0.399525	0.001377	0.014143	0.016298	0.209622	0.039429	2.37E-05	0.001025	0.001393	6.4E-06	3.43E-05	0.000152

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000921	0.195342	0.007244	0.000466	0.00948	8.33E-05	0.000378	0.000272	0.000121	0.035271	0.000342	0.002493
Standard Error	0.000142	0.030458	0.001441	2.95E-05	0.001873	4.54E-06	5.54E-05	3.43E-05	1.1E-05	0.001976	4.41E-05	0.001115
Median	0.00059	0.138	0.005	0.0004	0.0053	0.0001	0.0002	0.0002	0.0001	0.0315	0.0002	0.0009
Mode	0.00059	0.129	0.005	0.0004	0.0039	0.00005	0.0001	0.0001	0.0001	0.0411	0.0002	0.0008
Standard Deviation	0.001369	0.293724	0.013363	0.000285	0.018067	4.38E-05	0.000534	0.000331	7.44E-05	0.019057	0.000425	0.010756
Sample Variance	1.87E-06	0.086274	0.000179	8.12E-08	0.000326	1.92E-09	2.86E-07	1.09E-07	5.54E-09	0.000363	1.81E-07	0.000116
Skewness	6.3496	6.948605	8.096734	2.697999	7.385903	2.196483	3.806467	3.863229	1.85628	0.769119	5.982478	8.481587
Range	0.0119	2.6625	0.1215	0.00215	0.1637	0.00025	0.0033	0.0023	0.00035	0.0938	0.00365	0.0998
Minimum	0.0001	0.0175	0.0025	0.00005	0.0023	0.00005	0.0001	0.0001	0.00005	0.0082	0.00005	0.0001
Maximum	0.012	2.68	0.124	0.0022	0.166	0.0003	0.0034	0.0024	0.0004	0.102	0.0037	0.0999
Count	93	93	86	93	93	93	93	93	46	93	93	93
Confidence Level(95.0%)	0.000282	0.060492	0.002865	5.87E-05	0.003721	9.02E-06	0.00011	6.81E-05	2.21E-05	0.003925	8.75E-05	0.002215

Descriptive Statistics for South Branch River- NF02ZA0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.9	60.89038	44.87981	0.403574	12.01178	6.707397	7.016827	3.625651	5.981026	0.951984	0.348349	3.78754	9.740025
Standard Error	0.830858	2.745697	2.097982	0.027408	0.219511	0.035952	0.428343	0.157887	0.308915	0.032416	0.011437	0.160733	0.496175
Median	3.7	54.6	40	0.35	12.8	6.72	6.1	3.42	5.215	0.92	0.33	3.56	8.7
Mode	0	43.9	40	0.22	13.7	6.82	4.8	3.01	2.74	0.87	0.3	3.96	7.16
Standard Deviation	7.52374	28.00072	21.39531	0.279507	2.105472	0.368397	4.368257	1.617864	3.150332	0.332167	0.116638	1.647028	5.084279
Sample Variance	56.60667	784.0404	457.7591	0.078124	4.433013	0.135716	19.08167	2.617485	9.924591	0.110335	0.013605	2.7127	25.84989
Skewness	0.765511	0.958003	0.684258	2.929132	-0.532151	0.296139	1.168733	0.627697	1.485136	0.130115	0.915111	0.894235	0.83864
Range	23.3	144.9	117.5	1.77	6.8	1.79	22.45	7.69	17.4	1.32	0.65	8.72	23.99
Minimum	0	19.1	2.5	0.08	7.9	5.91	1.25	0.92	2	0.33	0.15	1.06	2.61
Maximum	23.3	164	120	1.85	14.7	7.7	23.7	8.61	19.4	1.65	0.8	9.78	26.6
Count	82	104	104	104	92	105	104	105	104	105	104	105	105
Confidence Level(95.0%)	1.653148	5.445437	4.16085	0.054357	0.436031	0.071294	0.849516	0.313096	0.61266	0.064282	0.022683	0.31874	0.983932

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.05	5.088301	0.00362	0.102532	0.233905	2.537544	0.138209	7.82E-05	0.005417	0.025714	5.95E-05	0.000113	0.000244
Standard Error	8E-307	0.198738	0.000241	0.006828	0.006932	0.093428	0.006294	5.09E-06	0.000202	0.000408	1.93E-06	9.42E-06	1.31E-05
Median	0.05	4.65	0.0036	0.091	0.228	2.34	0.13	0.00005	0.0051	0.025	0.00005	0.0001	0.0002
Mode		3.4	0.0044	0.03	0.182	2.94	0.174	0.00005	0.0053	0.025	0.00005	0.0001	0.0002
Standard Deviation		2.026738	0.002469	0.069629	0.067923	0.910626	0.064492	4.01E-05	0.002067	0.004185	1.97E-05	9.6E-05	0.000133
Sample Variance		4.107667	6.1E-06	0.004848	0.004614	0.829239	0.004159	1.61E-09	4.27E-06	1.75E-05	3.89E-10	9.22E-09	1.78E-08
Skewness		1.02689	4.088657	0.542875	0.743718	0.512604	1.474156	1.752768	0.602614	5.741807	1.599422	3.385148	1.39974
Range	0	9	0.0212	0.305	0.398	3.906667	0.376	0.00015	0.0107	0.025	0.00005	0.00054	0.0006
Minimum	0.05	2.3	0.0003	0.005	0.103	0.98	0.031	0.00005	0.0017	0.025	0.00005	0.00005	0.0001
Maximum	0.05	11.3	0.0215	0.31	0.501	4.886667	0.407	0.0002	0.0124	0.05	0.0001	0.00059	0.0007
Count	1	104	105	104	96	95	105	62	105	105	105	104	104
Confidence Level(95.0%)		0.39415	0.000478	0.013541	0.013763	0.185504	0.012481	1.02E-05	0.0004	0.00081	3.82E-06	1.87E-05	2.59E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.001222	0.129372	0.004927	0.000251	0.005599	8.27E-05	0.000312	0.000309	0.000117	0.018479	0.000292	0.001149
Standard Error	0.000231	0.00763	0.000263	1.28E-05	0.000588	6.93E-06	2.32E-05	3.55E-05	1.07E-05	0.000913	1.45E-05	6.92E-05
Median	0.00059	0.1115	0.005	0.0002	0.004	0.00005	0.0003	0.0002	0.0001	0.0161	0.0003	0.001
Mode	0.0005	0.103	0.005	0.0002	0.0021	0.00005	0.0003	0.0001	0.0001	0.016	0.0002	0.0008
Standard Deviation	0.00236	0.077814	0.002427	0.00013	0.005992	7.07E-05	0.000237	0.000362	7.31E-05	0.009312	0.000148	0.000705
Sample Variance	5.57E-06	0.006055	5.89E-06	1.69E-08	3.59E-05	4.99E-09	5.59E-08	1.31E-07	5.34E-09	8.67E-05	2.18E-08	4.98E-07
Skewness	5.322077	2.21801	3.25279	0.974125	3.760621	3.110698	4.042742	2.999546	2.04725	0.971265	2.360603	1.436875
Range	0.018	0.4638	0.0175	0.00065	0.035233	0.00035	0.0019	0.0022	0.00035	0.0488	0.00095	0.004
Minimum	0.0001	0.0142	0.0025	0.00005	0.0012	0.00005	0.0001	0.0001	0.00005	0.0046	0.00005	0.0001
Maximum	0.0181	0.478	0.02	0.0007	0.036433	0.0004	0.002	0.0023	0.0004	0.0534	0.001	0.0041
Count	104	104	85	103	104	104	104	104	47	104	104	104
Confidence Level(95.0%)	0.000459	0.015133	0.000524	2.54E-05	0.001165	1.37E-05	4.6E-05	7.05E-05	2.15E-05	0.001811	2.87E-05	0.000137

Descriptive Statistics for Grand Codroy River- NF02ZA0006

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.72	124.678	36.69297	0.928532	12.00326	7.002773	18.47833	11.08116	7.275202	1.554587	0.465607	12.96582	11.70494
Standard Error	0.762455	13.57143	1.948909	0.176105	0.200056	0.03713	1.127897	0.653846	0.261553	0.058487	0.011654	0.815825	0.46164
Median	3.9	100.1	40	0.42	12.7	6.99	15.8	9.11	6.85	1.47	0.46	10.35	11.75
Mode	0	173	40	0.25	13.6	7.27	18.5	15.5	11	2.2	0.46	16.5	11.7
Standard Deviation	7.029492	141.6899	20.34721	1.838586	1.918874	0.389422	11.82948	6.826348	2.70552	0.610621	0.120552	8.556444	4.841721
Sample Variance	49.41376	20076.03	414.0088	3.3804	3.682077	0.151649	139.9366	46.59902	7.31984	0.372858	0.014533	73.21273	23.44226
Skewness	0.681216	8.249915	1.33311	4.855332	-0.459296	0.362365	1.014224	0.735749	0.528924	0.380946	0.772513	0.842821	0.163766
Range	23	1444.4	137.5	13.9	7.6	2.096667	55.6	30.00667	12.20333	2.633333	0.676667	40.29667	21.39
Minimum	0	35.6	2.5	0.1	7.4	6.193333	2.8	2.36	2.83	0.4	0.24	0.17	1.11
Maximum	23	1480	140	14	15	8.29	58.4	32.36667	15.03333	3.033333	0.916667	40.46667	22.5
Count	85	109	109	109	92	110	110	109	107	109	107	110	110
Confidence Level(95.0%)	1.516227	26.9009	3.863071	0.349069	0.397388	0.07359	2.235453	1.296034	0.518554	0.115931	0.023106	1.616937	0.914955

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.05	4.421407	0.004735	0.119216	0.234714	3.026167	0.158118	9.9E-05	0.021229	0.029	6.41E-05	0.00013	0.000427
Standard Error	8E-307	0.177579	0.000631	0.006263	0.006476	0.085605	0.018816	8.8E-06	0.000937	0.000951	2.67E-06	1.49E-05	5.08E-05
Median	0.05	4.1	0.0037	0.1075	0.237	2.91	0.1205	0.0001	0.01865	0.025	0.00005	0.0001	0.0003
Mode		4.3	0.0041	0.08	0.181	2.64	0.059	0.00005	0.0132	0.025	0.00005	0.0001	0.0002
Standard Deviation		1.853977	0.00659	0.065385	0.065084	0.856051	0.197345	7.21E-05	0.009828	0.009972	2.8E-05	0.000156	0.000531
Sample Variance		3.437229	4.34E-05	0.004275	0.004236	0.732823	0.038945	5.19E-09	9.66E-05	9.94E-05	7.86E-10	2.43E-08	2.82E-07
Skewness		0.948765	5.851285	0.507364	0.214766	0.424537	6.256183	3.032054	0.706564	2.28839	2.522095	5.649956	4.654618
Range	0	9.1	0.0542	0.305	0.372	4.07	1.805	0.00045	0.0467	0.045	0.00015	0.00135	0.0036
Minimum	0.05	1.2	0.0001	0.005	0.074	1.38	0.035	0.00005	0.0055	0.025	0.00005	0.00005	0.0001
Maximum	0.05	10.3	0.0543	0.31	0.446	5.45	1.84	0.0005	0.0522	0.07	0.0002	0.0014	0.0037
Count	1	109	109	109	101	100	110	67	110	110	110	109	109
Confidence Level(95.0%)		0.351991	0.001251	0.012414	0.012848	0.169859	0.037293	1.76E-05	0.001857	0.001885	5.3E-06	2.96E-05	0.000101

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.000971	0.159298	0.004604	0.000546	0.008868	0.000124	0.000343	0.000288	0.000113	0.081701	0.000335	0.001371
Standard Error	8.64E-05	0.023997	0.000254	2.94E-05	0.001345	2.31E-05	3.52E-05	3.2E-05	1.02E-05	0.005246	3.49E-05	0.000189
Median	0.0007	0.102	0.005	0.0005	0.0062	0.0001	0.0003	0.0001	0.0001	0.0671	0.0003	0.0008
Mode	0.00059	0.131	0.005	0.0004	0.0064	0.0001	0.0002	0.0001	0.0001	0.136	0.0002	0.0009
Standard Deviation	0.000902	0.250536	0.002414	0.000305	0.014039	0.000242	0.000367	0.000334	6.99E-05	0.054766	0.000364	0.001977
Sample Variance	8.13E-07	0.062768	5.83E-06	9.32E-08	0.000197	5.84E-08	1.35E-07	1.12E-07	4.88E-09	0.002999	1.33E-07	3.91E-06
Skewness	2.512658	7.179566	3.268894	2.799146	8.005381	7.362027	5.034454	2.753106	2.161333	0.729209	7.072565	4.533141
Range	0.0044	2.396633	0.0175	0.00245	0.1388	0.00215	0.0031	0.0019	0.00035	0.231267	0.00355	0.0151
Minimum	0.0002	0.013367	0.0025	0.00005	0.0022	0.00005	0.0001	0.0001	0.00005	0.0124	0.00005	0.0001
Maximum	0.0046	2.41	0.02	0.0025	0.141	0.0022	0.0032	0.002	0.0004	0.243667	0.0036	0.0152
Count	109	109	90	108	109	109	109	109	47	109	109	109
Confidence Level(95.0%)	0.000171	0.047566	0.000506	5.82E-05	0.002665	4.59E-05	6.97E-05	6.35E-05	2.05E-05	0.010398	6.91E-05	0.000375

Descriptive Statistics For Isle aux Mort River- NF02ZB0001

	TEMPI	CONDL	COLORA	TURB	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD	FD
Mean	6.566154	32.70639	45.13881	0.481408	5.981127	2.539762	1.468578	3.502083	0.539447	0.275677	2.471244	5.675049	0.025
Standard Error	0.861908	1.600337	2.869932	0.047229	0.048061	0.268102	0.071792	0.198084	0.028189	0.009514	0.111592	0.399618	0
Median	4	28	39.6	0.4	6	2.271667	1.485	2.95	0.475	0.255	2.34	4.8	0.025
Mode	0	34	20	0.3	6		1.5	2.8	0.44	0.24	2.8	3.2	0.025
Standard Deviation	6.948927	13.67329	24.52071	0.397957	0.404967	1.003146	0.592009	1.584669	0.23585	0.076113	0.913421	3.295333	0
Sample Variance	48.28759	186.9587	601.2651	0.15837	0.163998	1.006302	0.350475	2.511177	0.055625	0.005793	0.834337	10.85922	0
Skewness	0.620126	1.186443	0.665088	6.470927	-0.32407	1.823828	0.301339	1.468919	0.821205	0.733052	0.923929	1.53152	-1.04045
Range	20	53.3	105	3.3	1.8	4.02	2.546667	6.7	0.91	0.4	4.863333	14.1	0
Minimum	0	14.7	5	0.2	5	1.38	0.453333	1.6	0.19	0.11	0.97	2	0.025
Maximum	20	68	110	3.5	6.8	5.4	3	8.3	1.1	0.51	5.833333	16.1	0.025
Count	65	73	73	71	71	14	68	64	70	64	67	68	39
Confidence Level(95.0%)	1.721858	3.190211	5.721101	0.094195	0.095854	0.579199	0.143297	0.395839	0.056236	0.019012	0.222801	0.797641	0

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.781818	0.003623	0.071871	0.162233	1.570217	0.129714	0.000193	0.0031	0.05	0.0001	0.0001	0.001043
Standard Error	0.29182	0.000564	0.007831	0.007734	0.132976	0.013719	1.82E-05	0.0004	2.87E-10	0	0	0.000228
Median	4.2	0.0022	0.05	0.165	1.3	0.124	0.00025	0.0032	0.05	0.0001	0.0001	0.001
Mode	4.2	0.001	0.02	0.2	1.3	#N/A	0.00025		0.05	0.0001	0.0001	
Standard Deviation	2.164194	0.004749	0.06552	0.064706	0.901884	0.036298	7.04E-05	0.001058	7.6E-10	0	0	0.000602
Sample Variance	4.683737	2.26E-05	0.004293	0.004187	0.813395	0.001318	4.95E-09	1.12E-06	5.78E-19	0	0	3.63E-07
Skewness	0.614619	4.573565	1.251287	0.256201	0.709825	0.621788	-0.61696	0.702778	1.296148	-1.29615	-1.29615	0.69018
Range	9.7	0.0345	0.3175	0.31	3.74	0.105	0.00015	0.0033	0	0	0	0.0018
Minimum	1.3	0.0005	0.0025	0.05	0.18	0.087	0.0001	0.0017	0.05	0.0001	0.0001	0.0003
Maximum	11	0.035	0.32	0.36	3.92	0.192	0.00025	0.005	0.05	0.0001	0.0001	0.0021
Count	55	71	70	70	46	7	15	7	7	7	7	7
Confidence Level(95.0%)	0.585064	0.001124	0.015623	0.015429	0.267827	0.03357	3.9E-05	0.000979	7.03E-10	0	0	0.000557

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.002129	0.152429	0.009143	0.000186	0.006471	0.0001	0.0002	0.000286	0.0063	0.000229	0.001614
Standard Error	0.000898	0.017465	0.002272	2.61E-05	0.001997	0	0	4.59E-05	0.000893	2.86E-05	0.000291
Median	0.0012	0.146	0.006	0.0002	0.0044	0.0001	0.0002	0.0002	0.0062	0.0002	0.0015
Mode			0.005	0.0002	0.0022	0.0001	0.0002	0.0002		0.0002	0.0012
Standard Deviation	0.002376	0.046209	0.006012	6.9E-05	0.005283	0	0	0.000121	0.002364	7.56E-05	0.000771
Sample Variance	5.65E-06	0.002135	3.61E-05	4.76E-09	2.79E-05	0	0	1.48E-08	5.59E-06	5.71E-09	5.95E-07
Skewness	2.058511	0.915033	1.58934	0.173897	1.111419	-1.29615	-1.29615	1.146967	0.297394	-0.59529	1.683819
Range	0.0068	0.136	0.016	0.0002	0.0128	0	0	0.0003	0.0065	0.0002	0.0024
Minimum	0.0004	0.1	0.005	0.0001	0.0022	0.0001	0.0002	0.0002	0.0034	0.0001	0.0008
Maximum	0.0072	0.236	0.021	0.0003	0.015	0.0001	0.0002	0.0005	0.0099	0.0003	0.0032
Count	7	7	7	7	7	7	7	7	7	7	7
Confidence Level(95.0%)	0.002198	0.042736	0.00556	6.38E-05	0.004886	0	0	0.000112	0.002186	6.99E-05	0.000713

Descriptive Statistics for Cing Cerf Brook- NF02ZB0005

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	7.018966	24.23045	20.40404	0.386128	12.11356	6.100448	1.579845	1.386144	2.074129	0.347313	0.179826	2.525	3.220348
Standard Error	1.002183	0.948564	1.597663	0.036422	0.289223	0.048638	0.118827	0.060563	0.080174	0.013701	0.00598	0.123301	0.168059
Median	3.6	23.3	20	0.3	12.9	6.12	1.5	1.34	1.99	0.35	0.17	2.47	3.126667
Mode	0	23.6	20	0.27	14.6	6.19	2.2	0.92	2.2	0.35	0.15	2.05	3.5
Standard Deviation	7.632398	7.706174	12.97947	0.29364	2.22156	0.39812	0.779198	0.495731	0.656256	0.112151	0.04895	1.00926	1.37562
Sample Variance	58.25349	59.38512	168.4667	0.086225	4.93533	0.1585	0.60715	0.245749	0.430671	0.012578	0.002396	1.018606	1.892332
Skewness	0.658061	0.41659	0.74828	2.611084	-0.349273	0.177631	0.63808	0.232751	0.399217	0.21446	0.664401	1.213688	0.973641
Range	22.8	31.64	45	1.88	7.4	1.89	3.2	2	2.84	0.43	0.23	5.97	6.72
Minimum	0	9.76	5	0.02	7.7	5.19	0.3	0.49	0.85	0.13	0.08	0.72	1.08
Maximum	22.8	41.4	50	1.9	15.1	7.08	3.5	2.49	3.69	0.56	0.31	6.69	7.8
Count	58	66	66	65	59	67	43	67	67	67	67	67	67
Confidence Level(95.0%)	2.006838	1.894413	3.190751	0.07276	0.578941	0.097109	0.239802	0.120918	0.160073	0.027356	0.01194	0.246178	0.33554

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	2.827409	0.00265	0.110702	0.200167	1.983169	0.110774	0.000133	0.002158	0.031618	6.03E-05	0.000131	0.000269
Standard Error	0.160776	0.000292	0.011157	0.010301	0.119238	0.006062	1.03E-05	8.04E-05	0.002263	3.06E-06	2.12E-05	5.99E-05
Median	2.566667	0.002	0.08	0.176	1.79	0.0975	0.0001	0.002	0.025	0.00005	0.0001	0.0001
Mode	1.7	0.0017	0.03	0.17	1.09	0.111	0.0001	0.0016	0.025	0.00005	0.00005	0.0001
Standard Deviation	1.306154	0.002394	0.090638	0.081763	0.93128	0.049993	5.55E-05	0.000663	0.018657	2.53E-05	0.000175	0.000494
Sample Variance	1.706038	5.73E-06	0.008215	0.006685	0.867282	0.002499	3.08E-09	4.39E-07	0.000348	6.39E-10	3.06E-08	2.44E-07
Skewness	0.91516	4.099164	0.933372	1.224439	0.693788	1.083803	0.249959	0.908223	4.424381	3.195363	4.349283	3.769438
Range	5.8	0.0164	0.385	0.417	3.75	0.242	0.00015	0.0033	0.125	0.00015	0.00115	0.0026
Minimum	0.7	0.0002	0.005	0.081	0.6	0.04	0.00005	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	6.5	0.0166	0.39	0.498	4.35	0.282	0.0002	0.0042	0.15	0.0002	0.0012	0.0027
Count	66	67	66	63	61	68	29	68	68	68	68	68
Confidence Level(95.0%)	0.321092	0.000584	0.022282	0.020592	0.238512	0.012101	2.11E-05	0.00016	0.004516	6.12E-06	4.23E-05	0.00012

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.001487	0.065966	0.004773	0.000252	0.006659	7.75E-05	0.000221	0.000307	0.000118	0.006189	0.000113	0.001947
Standard Error	0.000227	0.004048	0.000282	1.31E-05	0.000819	8.82E-06	2.23E-05	4.1E-05	1.45E-05	0.000275	8.68E-06	0.000417
Median	0.0009	0.06335	0.005	0.000267	0.0044	0.00005	0.0002	0.0002	0.0001	0.005867	0.0001	0.0014
Mode	0.0007		0.005	0.0003	0.002	0.00005	0.0001	0.0001	0.0001	0.0056	0.0001	0.0014
Standard Deviation	0.001872	0.03338	0.001992	0.000108	0.006751	7.27E-05	0.000184	0.000338	6.82E-05	0.00227	7.16E-05	0.003441
Sample Variance	3.5E-06	0.001114	3.97E-06	1.17E-08	4.56E-05	5.29E-09	3.38E-08	1.15E-07	4.65E-09	5.15E-06	5.13E-09	1.18E-05
Skewness	3.887426	1.132189	1.187447	0.352501	2.290708	5.573437	2.440641	2.277703	1.119873	0.333979	1.843309	7.069297
Range	0.0121	0.1553	0.0075	0.000547	0.0357	0.00054	0.001	0.0016	0.00025	0.0087	0.00035	0.0282
Minimum	0.0002	0.0167	0.0025	0.00005	0.0009	0.00005	0.0001	0.0001	0.00005	0.0022	0.00005	0.0002
Maximum	0.0123	0.172	0.01	0.000597	0.0366	0.00059	0.0011	0.0017	0.0003	0.0109	0.0004	0.0284
Count	68	68	50	68	68	68	68	68	22	68	68	68
Confidence Level(95.0%)	0.000453	0.00808	0.000566	2.62E-05	0.001634	1.76E-05	4.45E-05	8.19E-05	3.02E-05	0.00055	1.73E-05	0.000833

Descriptive Statistics for Grandy's Brook- NF02ZC0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	5.56554054	20.3822963	28.4966667	0.32572797	12.6172414	6.14786517	3.09787879	1.16128341	1.7813253	0.34241667	0.20608434	1.32545098	2.32877395
Standard Error	0.70769618	1.273459634	1.79139077	0.0227425	0.38989922	0.04984914	0.25765467	0.05034458	0.05548858	0.03252188	0.00959124	0.03890218	0.07772234
Median	2.7	18.8	27.5	0.3	13	6.12	3.15	1.1	1.8	0.315	0.18	1.4	2.4
Mode	2	17	10	0.3	13	6.5	1.8	0.98	2.1	0.3	0.17	1.6	1.7
Standard Deviation	6.08783272	12.08109885	16.994625	0.21212788	2.09967157	0.47027582	1.70908775	0.46958297	0.50552501	0.30508232	0.08738036	0.35866037	0.72494571
Sample Variance	37.0617072	145.9529495	288.81728	0.04499824	4.40862069	0.22115934	2.92098093	0.22050817	0.25555554	0.09307522	0.00763533	0.12863726	0.52554628
Skewness	0.91489214	6.397717404	0.99179611	2.76616778	-0.4579561	-0.2354009	0.34169356	0.29984712	-0.3038193	7.73821947	1.62392458	-0.5027243	0.34837301
Range	20.3	114.7	87.5	1.43	6.5	2	6.5	2.09	2.5	2.9	0.45333333	1.6	4.06
Minimum	0	5.3	2.5	0.07	9.1	5.1	0.4	0.31	0.4	0.1	0.05	0.5	0.7
Maximum	20.3	120	90	1.5	15.6	7.1	6.9	2.4	2.9	3	0.50333333	2.1	4.76
Count	74	90	90	87	29	89	44	87	83	88	83	85	87
Confidence Level(95.0%)	1.41043741	2.530335795	3.55945337	0.04521055	0.79867325	0.09906476	0.51960981	0.10008163	0.11038452	0.06464081	0.01908004	0.07736127	0.15450677

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.03310811	3.727848101	0.00276648	0.06318502	0.15327652	2.6962963	0.10756119	0.00028243	0.00141429	0.03285714	7.5714E-05	9.2857E-05	0.00065876
Standard Error	0.00195051	0.190007346	0.00044316	0.0062458	0.00823233	0.17754361	0.00708451	1.7135E-05	7.6712E-05	0.00199037	7.7707E-06	1.2323E-05	0.00016122
Median	0.025	3.4	0.002	0.042	0.14	2.46	0.104	0.00025	0.0013	0.025	0.00005	0.0001	0.0002
Mode	0.025	2.9	0.001	0.01	0.05	3.22	0.061	0.00025	0.0013	0.025	0.00005	0.00005	0.0001
Standard Deviation	0.01186447	1.68882223	0.00415724	0.05892274	0.0772261	1.40920872	0.04191255	0.00010423	0.00045384	0.01177521	4.5972E-05	7.2905E-05	0.00095379
Sample Variance	0.00014077	2.852120524	1.7283E-05	0.00347189	0.00596387	1.98586922	0.00175666	1.0863E-08	2.0597E-07	0.00013866	2.1134E-09	5.3151E-09	9.0972E-07
Skewness	0.78264856	1.425446598	6.88010507	1.3366135	1.81919335	0.75411148	0.21578415	1.23674845	2.16409145	0.83637478	3.56752086	3.0397591	2.02202628
Range	0.025	8	0.03683333	0.279	0.46	5.64	0.155	0.0004	0.0022	0.025	0.00025	0.00035	0.0037
Minimum	0.025	1.5	0.0005	0.005	0.05	0.74	0.034	0.0001	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	0.05	9.5	0.03733333	0.284	0.51	6.38	0.189	0.0005	0.0031	0.05	0.0003	0.0004	0.0038
Count	37	79	88	89	88	63	35	37	35	35	35	35	35
Confidence Level(95.0%)	0.00395581	0.378275654	0.00088084	0.01241222	0.01636266	0.35490423	0.01439746	3.4751E-05	0.0001559	0.00404492	1.5792E-05	2.5044E-05	0.00032764

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.0015019	0.078069238	0.00573333	0.00045569	0.00265076	0.00012257	0.00018857	0.00037743	0.00566238	0.00018714	0.00290257
Standard Error	0.00045682	0.004990621	0.00045216	2.6415E-05	0.00044052	1.9169E-05	1.7656E-05	5.0267E-05	0.0003134	1.7674E-05	0.00162011
Median	0.0007	0.0791	0.005	0.0004	0.0018	0.0001	0.0002	0.0003	0.0052	0.0002	0.0011
Mode	0.0005	0.106	0.005	0.0004	0.0018	0.00005	0.0001	0.0001	0.0049	0.0002	0.001
Standard Deviation	0.00270261	0.029524911	0.00175119	0.00015402	0.00260613	0.00011341	0.00010446	0.00029738	0.0018541	0.00010456	0.00958469
Sample Variance	7.3041E-06	0.00087172	3.0667E-06	2.3723E-08	6.7919E-06	1.2861E-08	1.0911E-08	8.8436E-08	3.4377E-06	1.0933E-08	9.1866E-05
Skewness	4.66337862	-0.00116798	2.31171713	0.03193738	2.38891725	2.69248137	1.04290062	1.27703168	0.39113303	0.56724441	5.79103596
Range	0.0157	0.1158	0.005	0.00071667	0.0108	0.00054	0.0004	0.00116667	0.0067	0.00035	0.0575
Minimum	0.0001	0.0182	0.005	0.00005	0.0004	0.00005	0.0001	0.0001	0.0027	0.00005	0.0001
Maximum	0.0158	0.134	0.01	0.00076667	0.0112	0.00059	0.0005	0.00126667	0.0094	0.0004	0.0576
Count	35	35	15	34	35	35	35	35	35	35	35
Confidence Level(95.0%)	0.00092838	0.010142155	0.00096978	5.3741E-05	0.00089524	3.8956E-05	3.5882E-05	0.00010215	0.00063691	3.5918E-05	0.00329245

Descriptive Statistics for White Bear River- NF02ZC0011

	TEMPI	CONDL	COLORA	TURB	O2D	PHF	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	6.56388889	23.27100775	49.98062016	0.43186023	11.9942857	6.09736842	4.03333333	1.71113614	1.8	0.39939394	0.22219697	1.42473462	2.44136364
Standard Error	1.23157631	2.553494486	2.967214567	0.02614737	0.37225054	0.07509944	1.47453139	0.36794801	0.07414329	0.05516555	0.00849833	0.06747587	0.12521892
Median	2.25	20.9	50	0.38	11.9	6.05	2.55	1.31	1.755	0.35	0.215	1.405	2.385
Mode	0	21.5	40	0.35	14.2	6.3	3.1	1.3	1.8	0.34	0.19	0.84	2.09
Standard Deviation	7.38945785	16.74438311	19.45732711	0.17145976	2.20226392	0.46294407	8.34120918	2.44069097	0.49181098	0.36592686	0.05637152	0.44758429	0.83060836
Sample Variance	54.6040873	280.3743659	378.5875784	0.02939845	4.84996639	0.21431721	69.5757706	5.95697242	0.24187804	0.13390247	0.00317775	0.20033169	0.68991024
Skewness	0.62185155	5.568566881	0.89509699	0.97568544	-0.1477432	-0.21001594	5.44787882	6.3318565	1.0563558	5.93957844	0.48073385	0.61573167	1.49079185
Range	21	113.4	97.5	0.93	7	1.7	49	16.78	2.69	2.53	0.27	2.05	4.7
Minimum	0	11.6	2.5	0.02	8.3	5.1	0.2	0.52	0.95	0.16	0.09	0.74	1.12
Maximum	21	125	100	0.95	15.3	6.8	49.2	17.3	3.64	2.69	0.36	2.79	5.82
Count	36	43	43	43	35	38	32	44	44	44	44	44	44
Confidence Level(95.0%)	2.50023588	5.153162131	5.988083321	0.05276754	0.75650363	0.15216578	3.00732828	0.74203737	0.1495241	0.11125186	0.0171385	0.13607797	0.25252785

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	5.21230159	0.004952045	0.045	0.17330702	2.84083333	0.12153742	0.00037194	0.00152197	0.02613636	5.5682E-05	7.7273E-05	0.0001553
Standard Error	0.32439181	0.00062713	0.007233421	0.00899197	0.2389495	0.0056054	3.0805E-05	8.6802E-05	0.00079413	2.4199E-06	5.5019E-06	1.6927E-05
Median	4.65	0.003683333	0.02	0.17016667	2.295	0.117	0.00033333	0.00146667	0.025	0.00005	0.00005	0.0001
Mode	5.5	0.003	0.005	0.23	1.67	0.097	0.0003	0.0016	0.025	0.00005	0.00005	0.0001
Standard Deviation	2.10229923	0.004159907	0.047432715	0.05543025	1.5850117	0.03718202	0.00017151	0.00057578	0.00526768	1.6052E-05	3.6496E-05	0.00011228
Sample Variance	4.41966205	1.73048E-05	0.002249862	0.00307251	2.51226208	0.0013825	2.9417E-08	3.3152E-07	2.7748E-05	2.5766E-10	1.3319E-09	1.2607E-08
Skewness	0.66192221	1.957955064	1.279655708	0.8626202	0.79050074	1.7039934	0.297768	3.12992326	4.51992912	2.52158079	1.71486836	3.5913249
Range	10.5	0.019366667	0.195	0.278	5.38	0.184	0.00065	0.0035	0.025	0.00005	0.00015	0.00063333
Minimum	0.4	0.0002	0.005	0.074	0.94	0.071	0.00005	0.0009	0.025	0.00005	0.00005	0.0001
Maximum	10.9	0.019566667	0.2	0.352	6.32	0.255	0.0007	0.0044	0.05	0.0001	0.0002	0.00073333
Count	42	44	43	38	44	44	31	44	44	44	44	44
Confidence Level(95.0%)	0.65512292	0.001264727	0.01459764	0.01821945	0.48188727	0.01130436	6.2912E-05	0.00017505	0.00160152	4.8802E-06	1.1096E-05	3.4136E-05

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Mean	0.00089674	0.197176515	0.004818182	0.00051909	0.00678258	0.000075	0.00018917	0.00020909	0.00011894	0.00739068	0.00016212	0.00098644
Standard Error	0.00053948	0.012181567	0.000340257	2.3645E-05	0.00087347	4.7395E-06	1.7446E-05	2.1025E-05	1.2077E-05	0.00052208	1.0186E-05	9.7125E-05
Median	0.0002	0.186	0.005	0.0005	0.00445	0.00005	0.0002	0.0002	0.0001	0.0071	0.0002	0.00086667
Mode	0.0002	0.236	0.005	0.0005	0.0032	0.00005	0.0001	0.0001	0.0001	0.0081	0.0002	0.0011
Standard Deviation	0.00357852	0.080803375	0.002257007	0.00015684	0.00579392	3.1438E-05	0.00011572	0.00013946	5.6647E-05	0.00346306	6.7568E-05	0.00064425
Sample Variance	1.2806E-05	0.006529185	5.09408E-06	2.4599E-08	3.3569E-05	9.8837E-10	1.3391E-08	1.945E-08	3.2089E-09	1.1993E-05	4.5654E-09	4.1506E-07
Skewness	6.46688721	1.004888415	1.347687278	-0.34288442	1.50893949	1.47012916	1.64578544	1.55519559	1.23231762	3.58787721	0.36751872	1.57687231
Range	0.0238	0.3509	0.0095	0.0006	0.0228	0.00015	0.00049	0.0006	0.00021667	0.0229	0.00025	0.0032
Minimum	0.0001	0.0671	0.0025	0.0002	0.001	0.00005	0.0001	0.0001	0.00005	0.003	0.00005	0.0002
Maximum	0.0239	0.418	0.012	0.0008	0.0238	0.0002	0.00059	0.0007	0.00026667	0.0259	0.0003	0.0034
Count	44	44	44	44	44	44	44	44	22	44	44	44
Confidence Level(95.0%)	0.00108797	0.024566455	0.000686192	4.7684E-05	0.00176151	9.5581E-06	3.5182E-05	4.2401E-05	2.5116E-05	0.00105286	2.0543E-05	0.00019587

Descriptive Statistics for Grey River- NF02ZD0003

	TEMPI	CONDL	COLORA	TURB	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD	FD
Mean	4.23921569	19.85836158	44.72655367	0.5007018	5.99126437	3.2691228	1.12982125	1.6727044	0.3116491	0.19213836	1.29157214	2.1954545	0.03921569
Standard Error	0.67202987	1.96995984	2.612749264	0.0211227	0.0644131	0.2536822	0.06368061	0.07805195	0.0347455	0.01361344	0.06868733	0.1116119	0.00272096
Median	2	17.3	45.1	0.5	5.97	2.8	1.07	1.7	0.28	0.16	1.3	2.1	0.025
Mode	0	22	40	0.4	6.6	2.6	1.5	1.7	0.26	0.14	1.6	2.5	0.025
Standard Deviation	4.79925321	15.13154865	20.0689079	0.159473	0.49055557	1.1057749	0.47654209	0.56822676	0.262323	0.09910733	0.50005134	0.8277364	0.01586578
Sample Variance	23.0328314	228.9637645	402.7610644	0.0254316	0.24064477	1.2227381	0.22709236	0.32288165	0.0688134	0.00982226	0.25005134	0.6851475	0.00025172
Skewness	1.0384726	5.955440247	0.057378057	0.7192459	0.03634204	0.3981242	0.30306818	0.06684341	5.8012522	1.87552556	-0.1093083	0.4277761	0.35618777
Range	16	116.57	95	0.8	1.83333333	3.8333333	1.95	2.3	2.04	0.48333333	1.9	3.66	0.045
Minimum	0	8.43	5	0.2	5.1	1.5	0.35	0.6	0.06	0.05	0.3	0.7	0.025
Maximum	16	125	100	1	6.93333333	5.3333333	2.3	2.9	2.1	0.53333333	2.2	4.36	0.07
Count	51	59	59	57	58	19	56	53	57	53	53	55	34
Confidence Level(95.0%)	1.34981227	3.9433001	5.229981965	0.0423139	0.12898507	0.5329668	0.12761877	0.15662259	0.0696036	0.02731734	0.13783113	0.2237687	0.00553584

	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	4.85138889	0.002914943	0.033549708	0.1319023	2.26577236	0.1216	0.00028306	0.00128	0.05	0.0001	0.0001	0.00098
Standard Error	0.23101891	0.000275493	0.004639822	0.0075341	0.22721106	0.0094319	1.8661E-05	8.6023E-05	2.945E-10	0	0	0.0003992
Median	4.53333333	0.002216667	0.02	0.12	1.69	0.13	0.00025	0.0013	0.05	0.0001	0.0001	0.0007
Mode	4.5	0.002	0.01	0.12	1.1	0.13	0.00025		0.05	0.0001	0.0001	
Standard Deviation	1.60054598	0.002098093	0.03502989	0.0573784	1.45486063	0.0210903	0.00011196	0.00019235	6.585E-10	0	0	0.0008927
Sample Variance	2.56174744	4.402E-06	0.001227093	0.0032923	2.11661946	0.0004448	1.2536E-08	3.7E-08	4.337E-19	0	0	7.97E-07
Skewness	0.57136678	1.632381496	1.999429538	1.1958801	1.09050443	-0.0483533	1.67291384	-0.5901287				1.7452762
Range	6.23333333	0.0105	0.168333333	0.3233333	5.5	0.05	0.0005	0.0005	0	0	0	0.0022
Minimum	2.36666667	0.0005	0.005	0.04	0.59	0.098	0.0001	0.001	0.05	0.0001	0.0001	0.0003
Maximum	8.6	0.011	0.173333333	0.3633333	6.09	0.148	0.0006	0.0015	0.05	0.0001	0.0001	0.0025
Count	48	58	57	58	41	5	36	5	5	5	5	5
Confidence Level(95.0%)	0.46474967	0.000551666	0.009294675	0.0150869	0.45921049	0.0261871	3.7883E-05	0.00023884	8.177E-10	0	0	0.0011085

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.00102	0.159	0.0062	0.00036	0.00768	0.00012	0.00022	0.00024	0.00512	0.00014	0.00122
Standard Error	0.00035412	0.018944656	0.000969536	0.000103	0.00177691	0.00002	0.00002	4E-05	0.0008806	2.4495E-05	0.00042237
Median	0.0009	0.157	0.005	0.0003	0.0086	0.0001	0.0002	0.0002	0.0058	0.0001	0.0009
Mode			0.005	0.0006		0.0001	0.0002	0.0002		0.0001	0.0009
Standard Deviation	0.00079183	0.042361539	0.002167948	0.0002302	0.00397329	4.472E-05	4.4721E-05	8.9443E-05	0.001969	5.4772E-05	0.00094446
Sample Variance	6.27E-07	0.0017945	0.0000047	5.3E-08	1.5787E-05	2E-09	2E-09	8E-09	3.877E-06	3E-09	8.92E-07
Skewness	1.23408925	-0.13286365	2.03153149	0.1966969	-0.1752328	2.236068	2.23606798	2.23606798	-0.4820372	0.60858062	2.17364441
Range	0.0021	0.105	0.005	0.0005	0.0107	0.0001	0.0001	0.0002	0.005	0.0001	0.0022
Minimum	0.0002	0.104	0.005	0.0001	0.0022	0.0001	0.0002	0.0002	0.0024	0.0001	0.0007
Maximum	0.0023	0.209	0.01	0.0006	0.0129	0.0002	0.0003	0.0004	0.0074	0.0002	0.0029
Count	5	5	5	5	5	5	5	5	5	5	5
Confidence Level(95.0%)	0.00098319	0.052598907	0.002691869	0.0002859	0.0049335	5.553E-05	5.5529E-05	0.00011106	0.0024449	6.8009E-05	0.0011727

Descriptive Statistics for Churchill River- NF03OE0001

	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	3.79444444	20.297619	32.69	10.8725	11.94	6.74341463	6.750416667	2.039230769	0.695127949	0.723076923	0.401538462	1.287297297	0.544615385
Standard Error	1.06983207	0.61402963	5.503490501	2.944545125	1.37971011	0.0345963	0.313428608	0.0601644	0.029032701	0.023748439	0.027973716	0.052161462	0.064965314
Median	1.5	20.7	25	4.95	12.2	6.8	6.9	2.1	0.66	0.72	0.35	1.3	0.29
Mode	0	24	20	1.9		6.9	7.5	2.2	0.6	0.82	0.3	1.3	0.25
Standard Deviation	4.53891309	3.97936679	34.80713013	18.62293854	3.08512561	0.22152438	1.535480322	0.375726557	0.181309162	0.148308956	0.174695803	0.317285786	0.405708258
Sample Variance	20.601732	15.83536	1211.536308	346.8138397	9.518	0.04907305	2.357699819	0.141170445	0.032873012	0.021995547	0.030518623	0.10067027	0.16459919
Skewness	1.02328762	-0.02358779	4.551694464	2.552008864	-0.2521912	-0.6204086	-0.470939669	0.607550648	1.355511844	-0.006126456	2.354994777	-0.122391188	1.471321547
Range	14	16.7	220	77.5	8.1	0.9	5.1	1.9	0.9	0.55	0.9	1.3	1.57
Minimum	0	12.3	5	0.5	7.7	6.2	4.1	1.4	0.4	0.45	0.2	0.6	0.23
Maximum	14	29	225	78	15.8	7.1	9.2	3.3	1.3	1	1.1	1.9	1.8
Count	18	42	40	40	5	41	24	39	39	39	39	37	39
Confidence Level(95.0%)	2.25715153	1.24005867	11.13184932	5.955898834	3.83069733	0.06992169	0.648375593	0.121796464	0.058773633	0.048076204	0.05662983	0.105788209	0.131515408

	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	3.61714286	0.048630976	0.034625	0.15919512	2.29333333	0.699	0.000569565	0.01335	0.05	0.00015	0.00055	0.00335
Standard Error	0	0.14829483	0.018825109	0.010572381	0.02356054	0.07460907	0.471	0.000328726	0.00465	0	0.00005	0.00035	0.00215
Median	0.025	3.8	0.015	0.02	0.12	2.355	0.699	0.00025	0.01335	0.05	0.00015	0.00055	0.00335
Mode	0.025	3.8	0.004	0.005	0.05	2.6		0.00025		0.05			
Standard Deviation	0	0.87732404	0.120539511	0.066865609	0.15086107	0.40865071	0.666094588	0.001576514	0.006576093	0	7.07107E-05	0.000494975	0.003040559
Sample Variance	0	0.76969748	0.014529774	0.00447101	0.02275906	0.1669954	0.443682	2.4854E-06	0.000043245	0	5E-09	0.000000245	0.000009245
Skewness	-1.06229573	0.23854886	4.564023889	5.172647087	2.6978361	-0.0215883		4.792455323					
Range	0	3.9	0.6995	0.415	0.75	1.68	0.942	0.0077	0.0093	0	0.0001	0.0007	0.0043
Minimum	0.025	1.8	0.0005	0.005	0.05	1.52	0.228	0.0001	0.0087	0.05	0.0001	0.0002	0.0012
Maximum	0.025	5.7	0.7	0.42	0.8	3.2	1.17	0.0078	0.018	0.05	0.0002	0.0009	0.0055
Count	26	35	41	40	41	30	2	23	2	2	2	2	2
Confidence Level(95.0%)	0	0.30137116	0.038046949	0.021384638	0.04761761	0.15259277	5.984596792	0.000681736	0.059083599	0	0.000635308	0.004447153	0.027318223

	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.0022	0.8955	0.007	0.00055	0.024	0.0001	0.00115	0.00085	0.0114	0.00165	0.0039
Standard Error	0.0006	0.5445	0.002	0.00045	0.0117	0	0.00065	0.00045	0	0.00115	0.0018
Median	0.0022	0.8955	0.007	0.00055	0.024	0.0001	0.00115	0.00085	0.0114	0.00165	0.0039
Mode						0.0001			0.0114		
Standard Deviation	0.00084853	0.77003928	0.002828427	0.000636396	0.0165463	0	0.000919239	0.000636396	0	0.001626346	0.002545584
Sample Variance	7.2E-07	0.5929605	0.000008	0.000000405	0.00027378	0	0.000000845	0.000000405	0	0.000002645	6.48E-06
Skewness											
Range	0.0012	1.089	0.004	0.0009	0.0234	0	0.0013	0.0009	0	0.0023	0.0036
Minimum	0.0016	0.351	0.005	0.0001	0.0123	0.0001	0.0005	0.0004	0.0114	0.0005	0.0021
Maximum	0.0028	1.44	0.009	0.001	0.0357	0.0001	0.0018	0.0013	0.0114	0.0028	0.0057
Count	2	2	2	2	2	2	2	2	2	2	2
Confidence Level(95.0%)	0.00762369	6.91849884	0.025412301	0.005717768	0.14866196	0	0.008258998	0.005717768	0	0.014612073	0.022871071

Descriptive Statistics for Eagle River- NF03QC0001

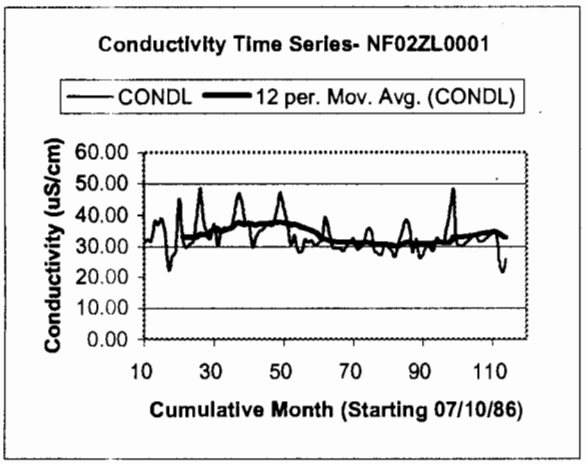
	TEMPI	CONDL	COLORA	TURB	O2D	PHL	ALKT	CAD	NAD	MGD	KD	SO4IC	CLD
Mean	4.865909091	22.97954545	47.22954545	2.457674419	12.28333333	6.57522727	7.43652174	2.127619048	1.243333095	0.745714286	0.4047619	1.318333333	1.268780488
Standard Error	1.116200004	1.823816421	2.374985433	0.873936996	0.882578294	0.04667766	0.99535971	0.163081822	0.098355052	0.058153455	0.06192915	0.101731192	0.177268638
Median	2.5	18.5	45	1.2	13.2	6.6	5.7	1.85	1.1	0.675	0.29	1.2	1
Mode	0	16	35	0.9		6.8		1.1	1.4	0.4	0.18	0.8	0.25
Standard Deviation	5.235442092	12.09782951	15.75387113	5.730788127	2.161866478	0.30962459	4.77357747	1.056890999	0.637413589	0.363915984	0.40134875	0.859293475	1.135073115
Sample Variance	27.4098539	146.3574789	248.1844556	32.84193256	4.673666667	0.09586739	22.7870419	1.117018583	0.406296083	0.132434843	0.16107921	0.434667886	1.288390976
Skewness	0.626218896	1.205729915	0.77756303	5.967123041	-0.90115874	-0.1751884	1.28325895	1.07829077	0.777486742	0.987775844	3.52260208	0.549203819	2.161379921
Range	14	48	65	37.51	5.4	1.3	16.06	4.1	2.78	1.54	2.3	2.55	5.45
Minimum	0	10	25	0.49	9	5.9	2.24	0.9	0.32	0.26	0.1	0.25	0.25
Maximum	14	58	90	38	14.4	7.2	18.3	5	3.1	1.8	2.4	2.8	5.7
Count	22	44	44	43	6	44	23	42	42	42	42	42	41
Confidence Level(95.0%)	2.321265385	3.678073823	4.789611308	1.76367682	2.268736023	0.09413442	2.06425191	0.329350601	0.198632166	0.113404266	0.12506852	0.205450423	0.358273139

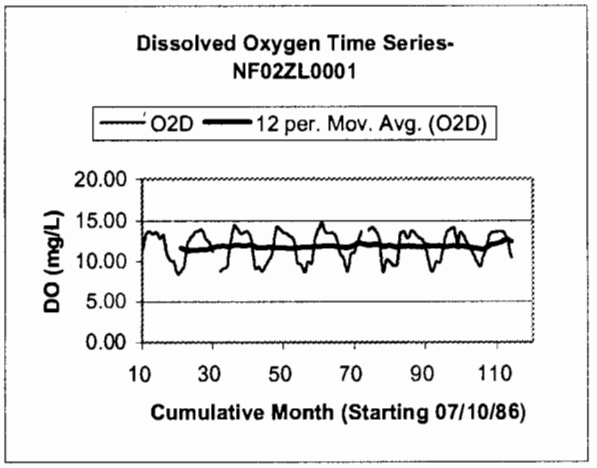
	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST	BAT	BET	CDT	COT	CRT
Mean	0.025	5.455555556	0.021340227	0.037209302	0.179465116	4.82419355	0.218	0.000292	0.0064	0.05	0.0001	0.0002	0.0015
Standard Error	0	0.210307577	0.005390885	0.008837938	0.021398201	0.53082281	0.112	5.07182E-05	0.0022	0	0	0.0001	0.0009
Median	0.025	5.35	0.01	0.005	0.14	3.3	0.218	0.00025	0.0064	0.05	0.0001	0.0002	0.0015
Mode	0.025	5.4	0.006	0.005	0.1	3.1		0.00025		0.05	0.0001		
Standard Deviation	0	1.261845461	0.035759086	0.057954234	0.140317387	2.95549632	0.15839192	0.000253591	0.00311127	0	0	0.000141421	0.001272792
Sample Variance	0	1.592253968	0.001278712	0.003358693	0.019688969	8.73495849	0.025088	6.43083E-08	0.00000968	0	0	0.00000002	0.00000162
Skewness	-1.0598113	0.825567776	3.535122536	1.725505885	2.542221821	1.31506965		4.869197298					
Range	0	5.6	0.187	0.205	0.75	10.2	0.224	0.0014	0.0044	0	0	0.0002	0.0018
Minimum	0.025	3.4	0.003	0.005	0.05	2	0.106	0.0001	0.0042	0.05	0.0001	0.0001	0.0006
Maximum	0.025	9	0.19	0.21	0.8	12.2	0.33	0.0015	0.0086	0.05	0.0001	0.0003	0.0024
Count	27	36	44	43	43	31	2	25	2	2	2	2	2
Confidence Level(95.0%)	0	0.426947601	0.010871748	0.017835686	0.043183331	1.08408369	1.42308883	0.000104677	0.027953531	0	0	0.001270615	0.011435535

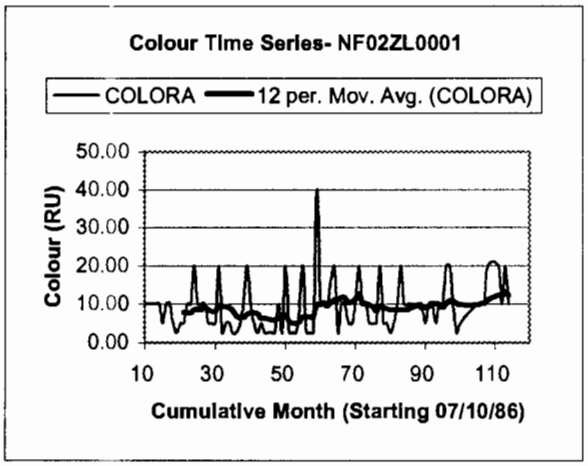
	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SRT	VT	ZNT
Mean	0.00155	0.6795	0.008	0.0001	0.0235	0.0001	0.0003	0.00045	0.01035	0.00065	0.0029
Standard Error	0.00135	0.3305	0.001	0	0.0119	0	1E-04	0.00005	0.00315	0.00045	0.0001
Median	0.00155	0.6795	0.008	0.0001	0.0235	0.0001	0.0003	0.00045	0.01035	0.00065	0.0029
Mode				0.0001		0.0001					
Standard Deviation	0.001909188	0.467397582	0.001414214	0	0.016829141	0	0.00014142	7.07107E-05	0.004454773	0.000636396	0.00014142
Sample Variance	0.000003645	0.2184605	2E-06	0	0.00028322	0	0.00000002	5E-09	0.000019845	0.000000405	2E-08
Skewness											
Range	0.0027	0.661	0.002	0	0.0238	0	0.0002	0.0001	0.0063	0.0009	0.0002
Minimum	0.0002	0.349	0.007	0.0001	0.0116	0.0001	0.0002	0.0004	0.0072	0.0002	0.0028
Maximum	0.0029	1.01	0.009	0.0001	0.0354	0.0001	0.0004	0.0005	0.0135	0.0011	0.003
Count	2	2	2	2	2	2	2	2	2	2	2
Confidence Level(95.0%)	0.017153303	4.199382674	0.01270615	0	0.151203189	0	0.00127062	0.000635308	0.040024373	0.005717768	0.00127062

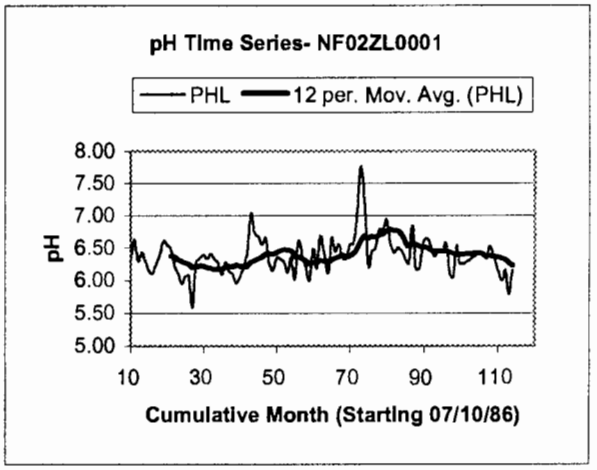
Appendix C:
Time Series Plots

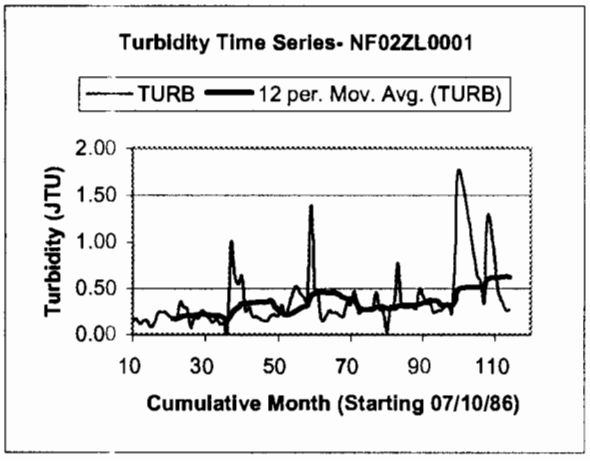
Time Series Plots of Spout Cove Brook- NF02ZL0001

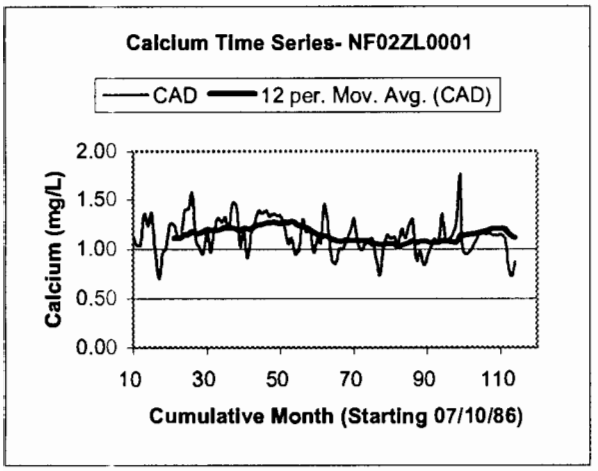


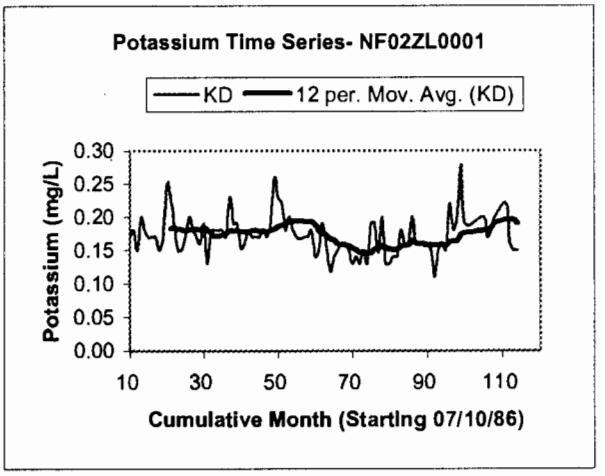


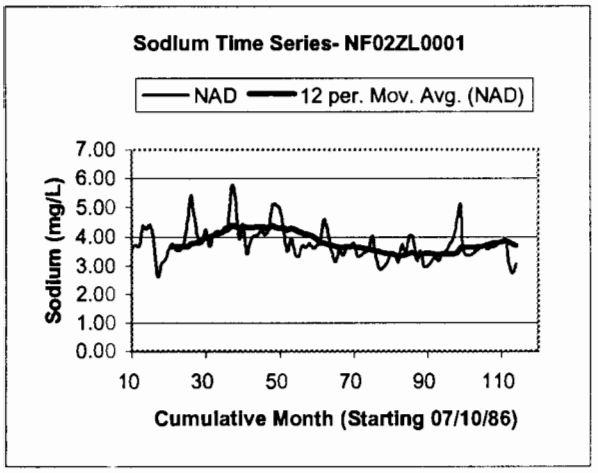


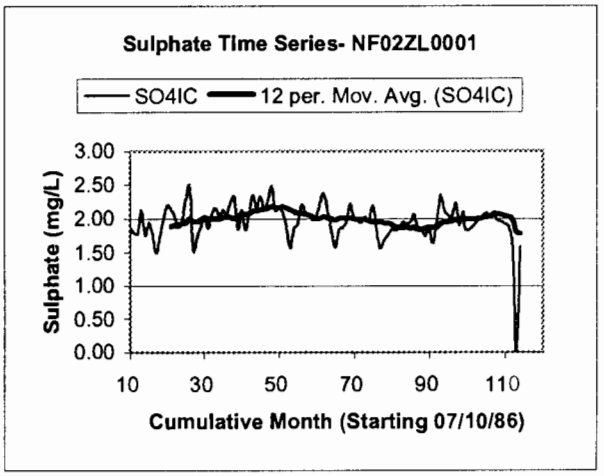


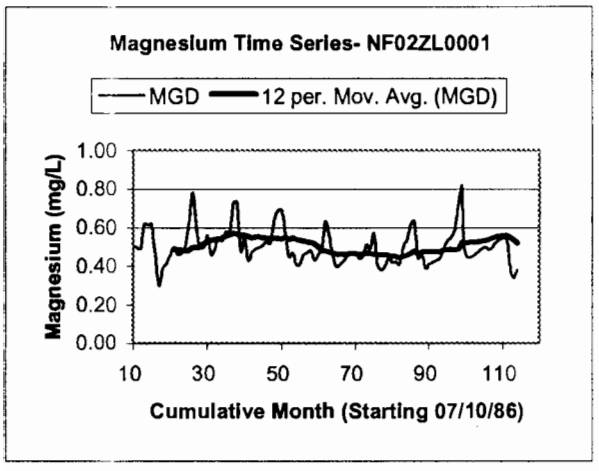


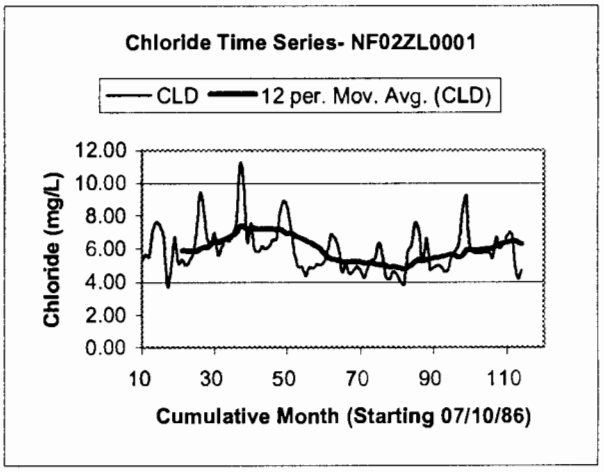

Calcium Time Series- NF02ZL0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.50
1.00
0.50
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

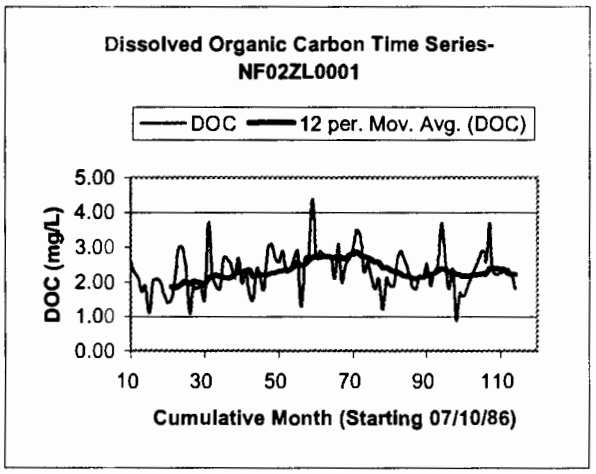

Potassium Time Series- NF02ZL0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

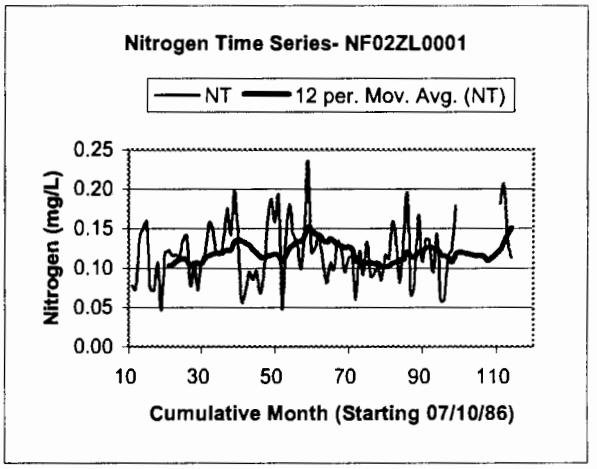

Sodium Time Series- NF02ZL0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

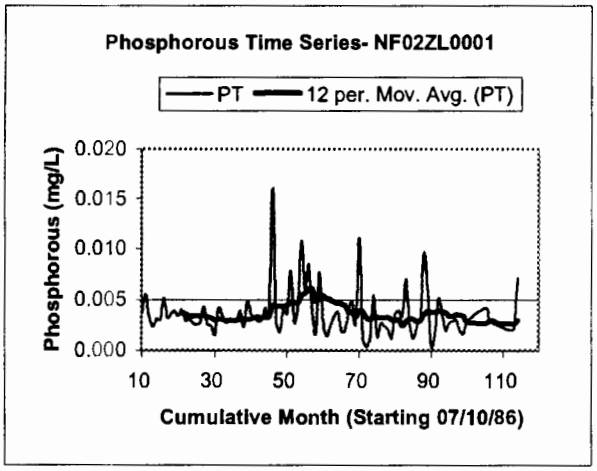

Sulphate Time Series- NF02ZL0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

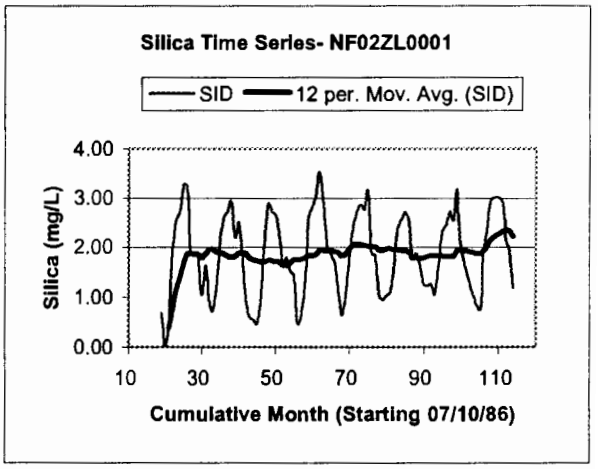

Magnesium Time Series- NF02ZL0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

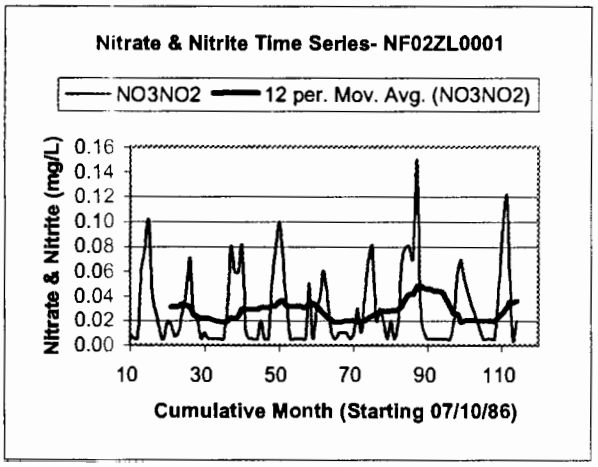

Chloride Time Series- NF02ZL0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

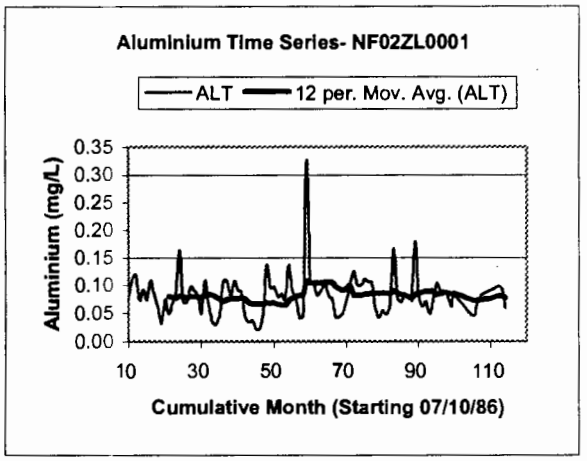

Dissolved Organic Carbon Time Series- NF02ZL0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

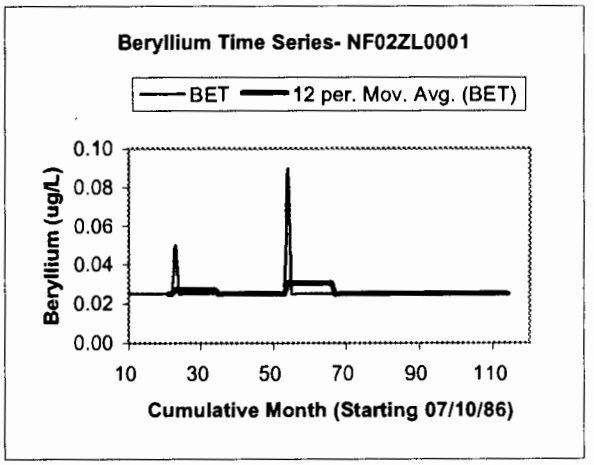

Nitrogen Time Series- NF02ZL0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

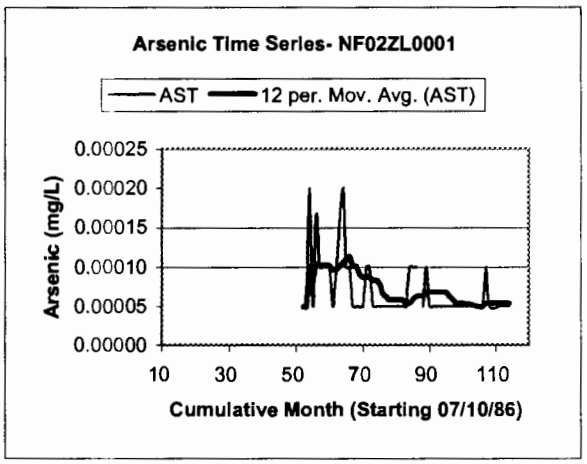

Phosphorous Time Series- NF02ZL0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

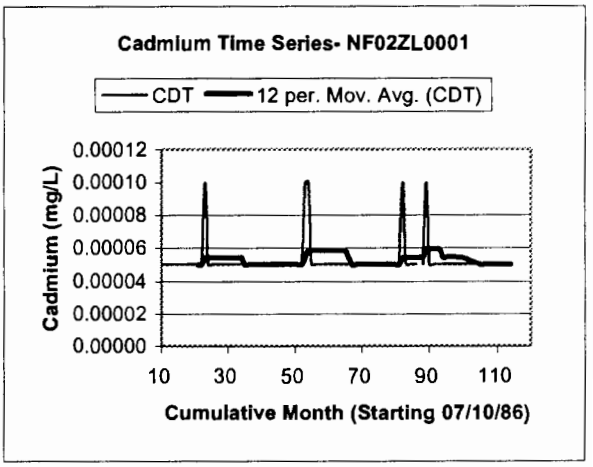

Silica Time Series- NF02ZL0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.00
2.00
1.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

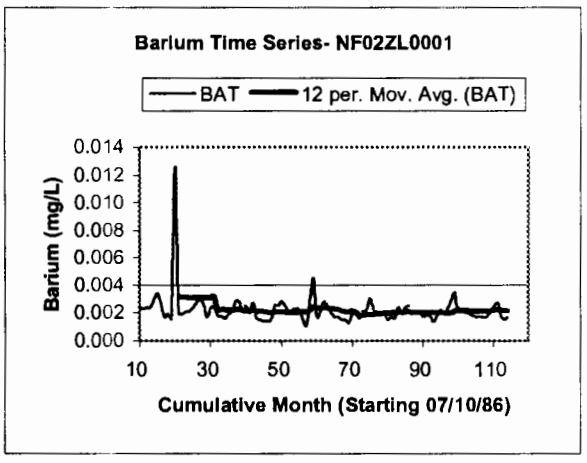

Nitrate & Nitrite Time Series- NF02ZL0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

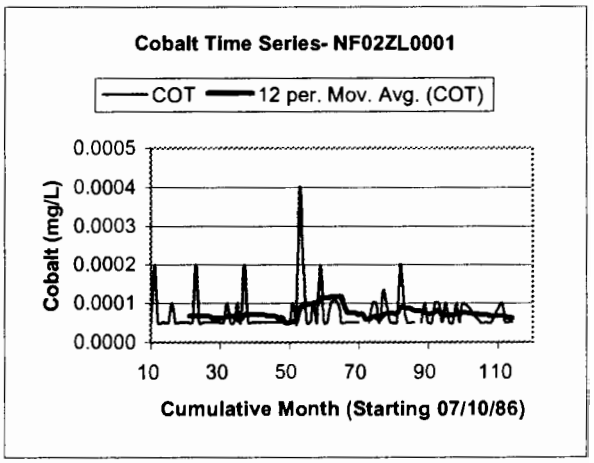

Aluminium Time Series- NF02ZL0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

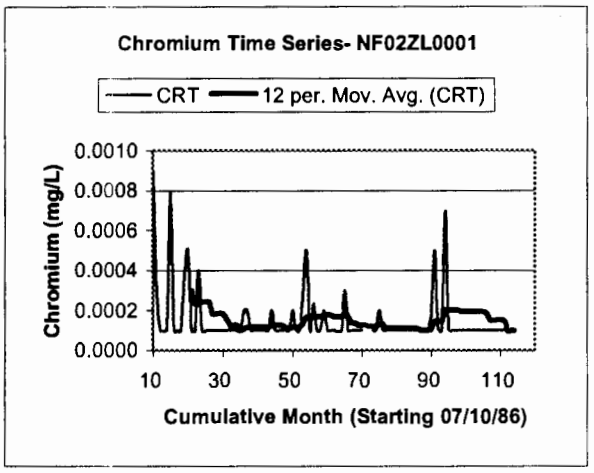

Beryllium Time Series- NF02ZL0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.10
0.08
0.06
0.04
0.02
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

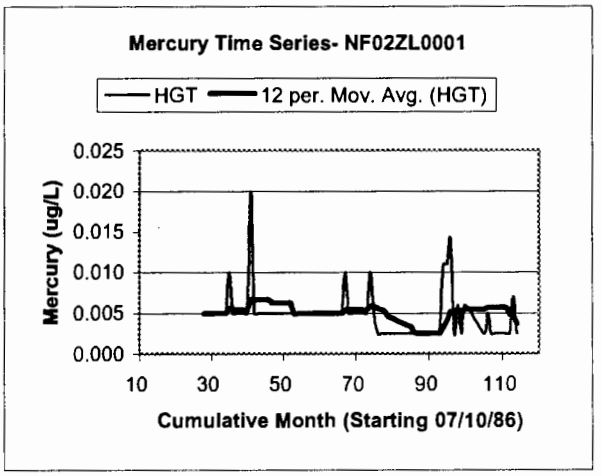

Arsenic Time Series- NF02ZL0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

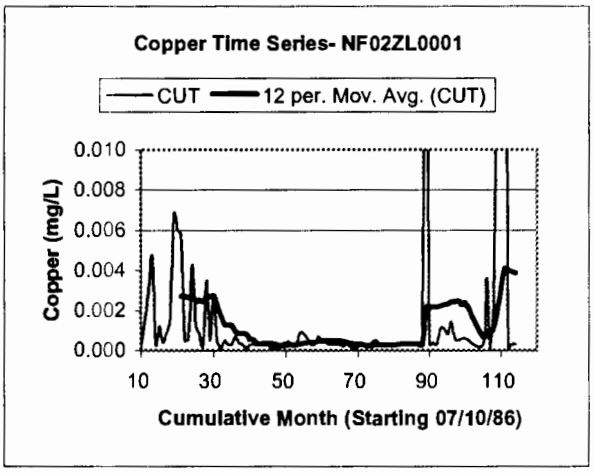

Cadmium Time Series- NF02ZL0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

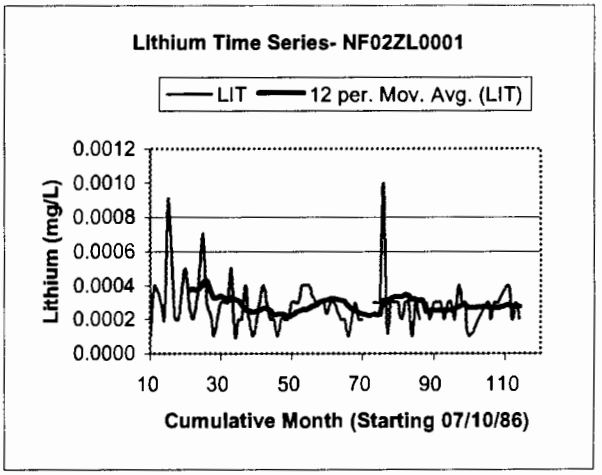

Barium Time Series- NF02ZL0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

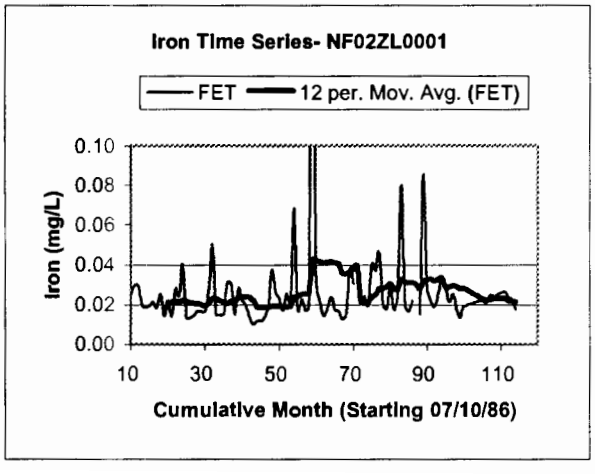

Cobalt Time Series- NF02ZL0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

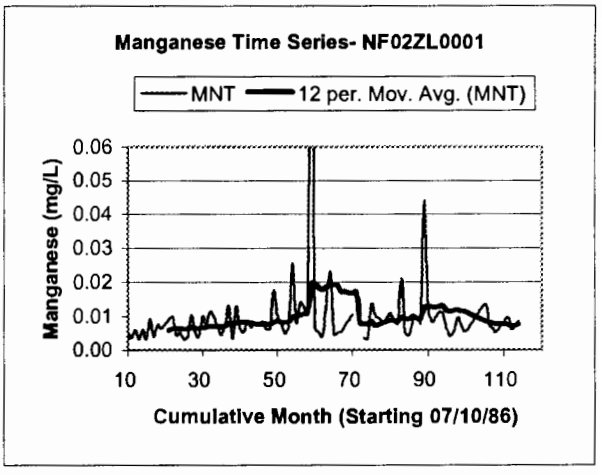

Chromium Time Series- NF02ZL0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

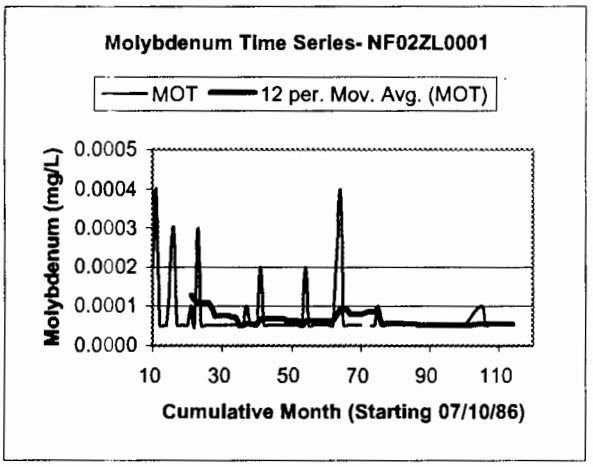

Mercury Time Series- NF02ZL0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

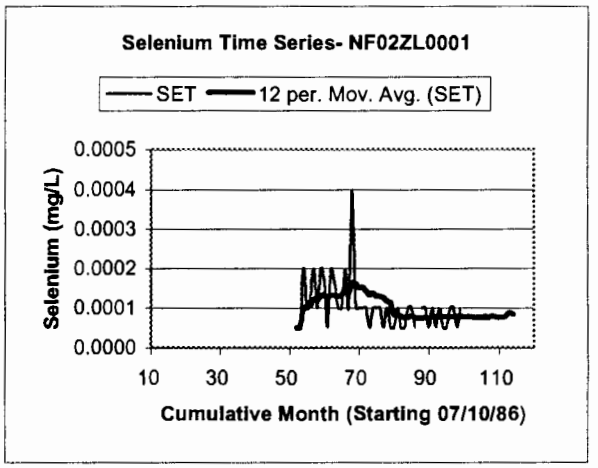

Copper Time Series- NF02ZL0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

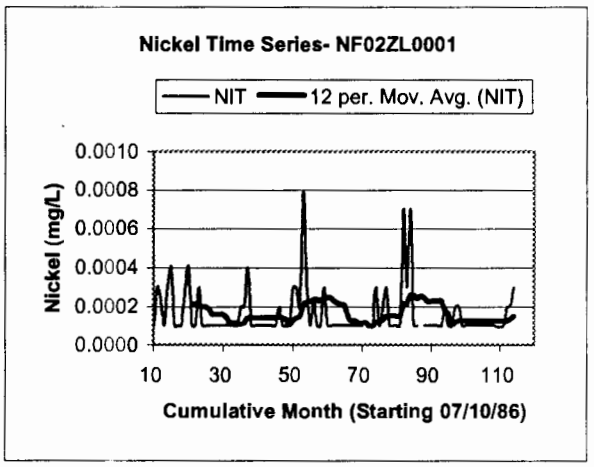

Lithium Time Series- NF02ZL0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

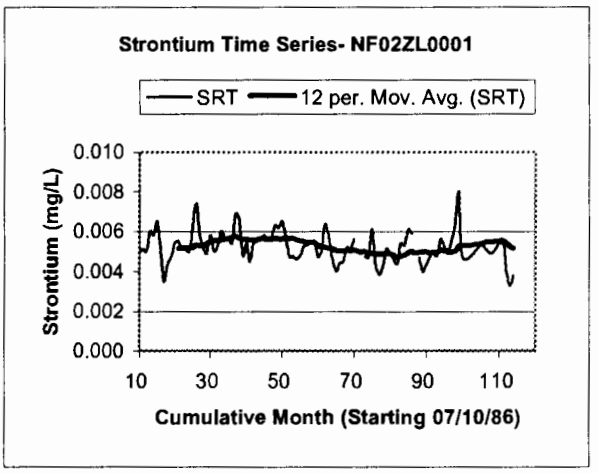

Iron Time Series- NF02ZL0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

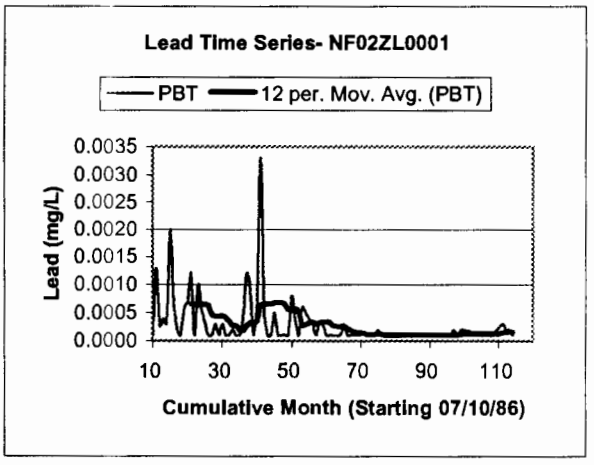

Manganese Time Series- NF02ZL0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

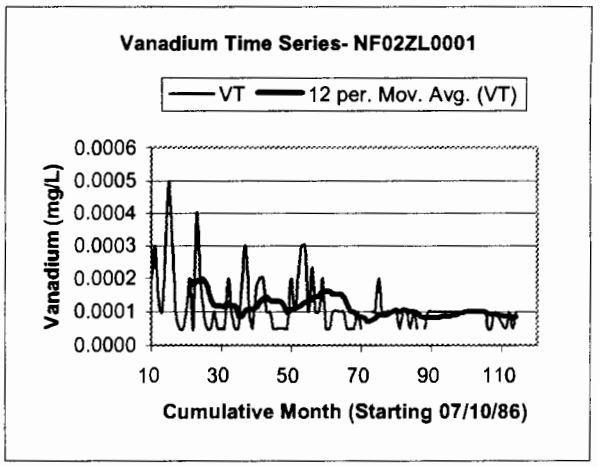

Molybdenum Time Series- NF02ZL0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

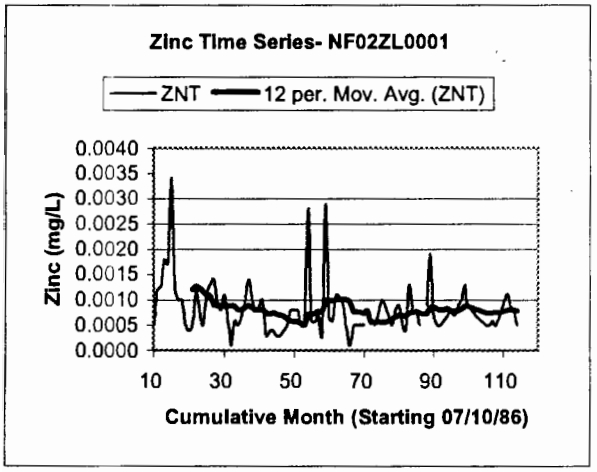

Selenium Time Series- NF02ZL0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)


Nickel Time Series- NF02ZL0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

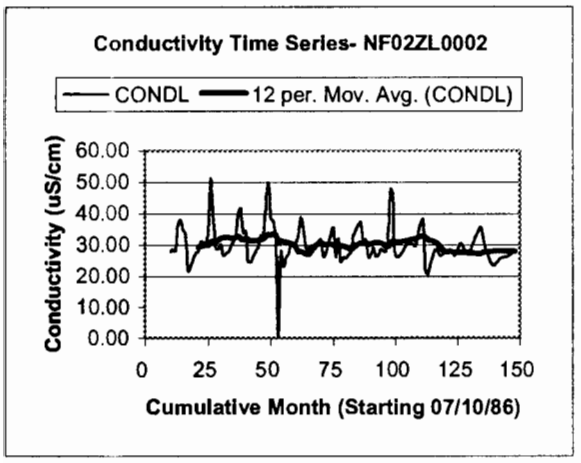

Strontium Time Series- NF02ZL0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

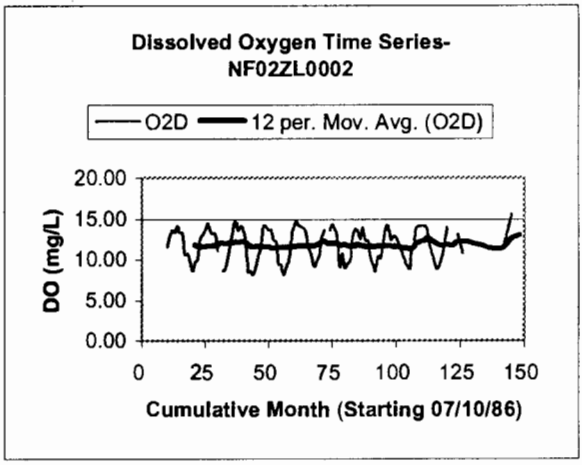

Lead Time Series- NF02ZL0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

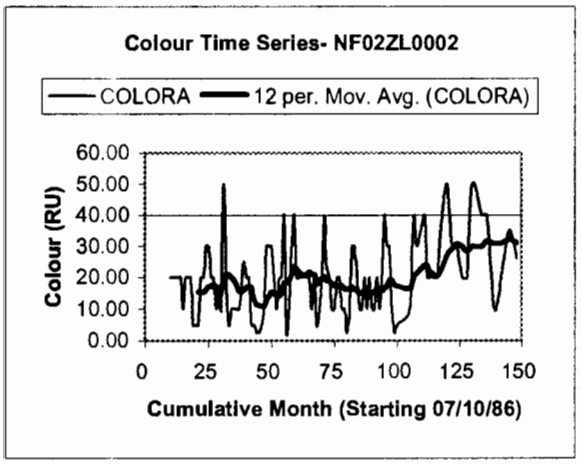

Vanadium Time Series- NF02ZL0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

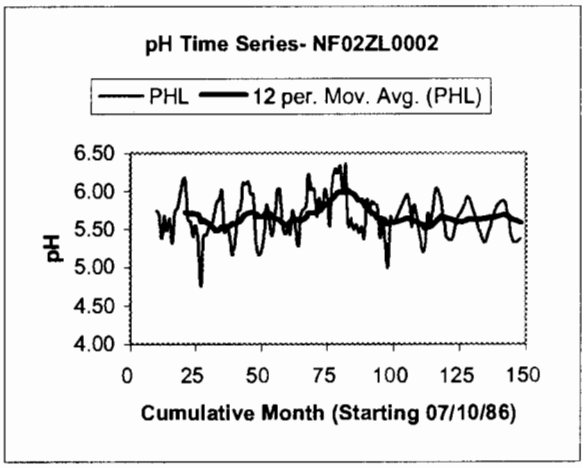

Zinc Time Series- NF02ZL0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 07/10/86)

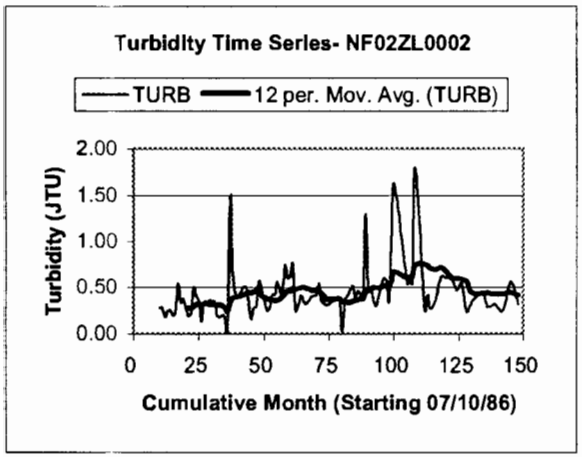
Time Series Trends of Heart's Content Brook- NF02ZL0002

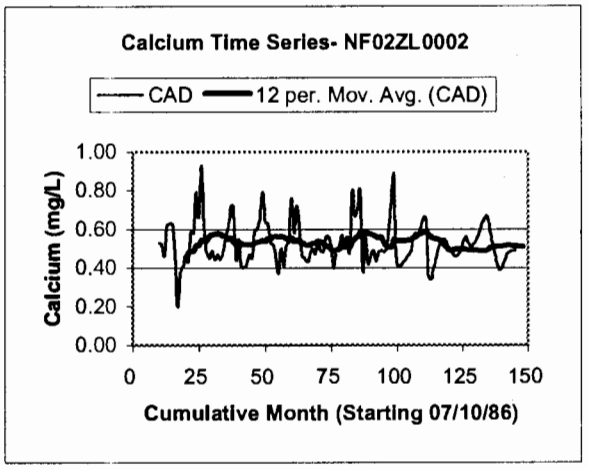


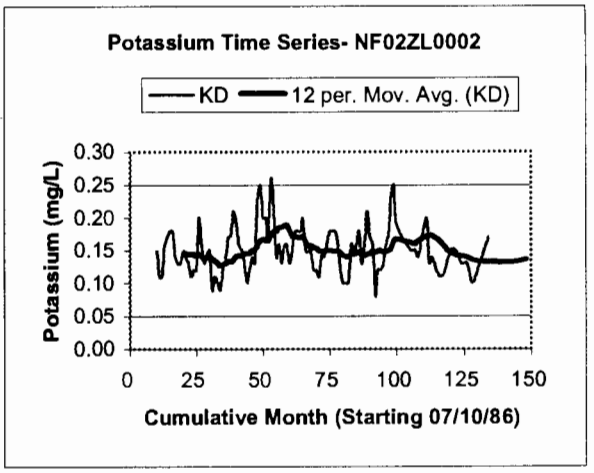


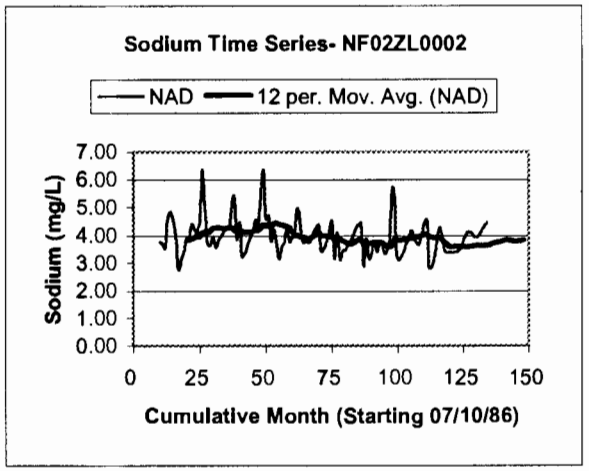


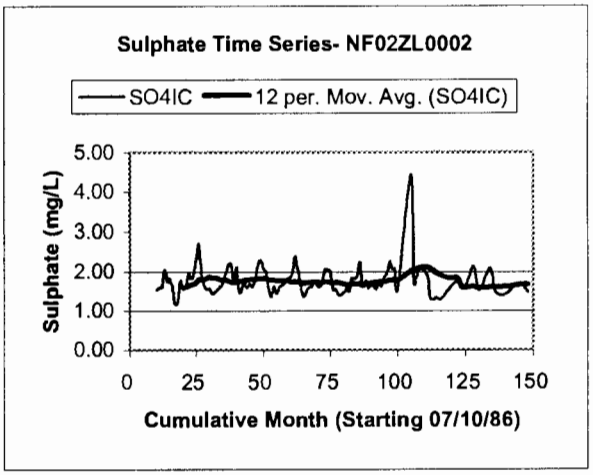


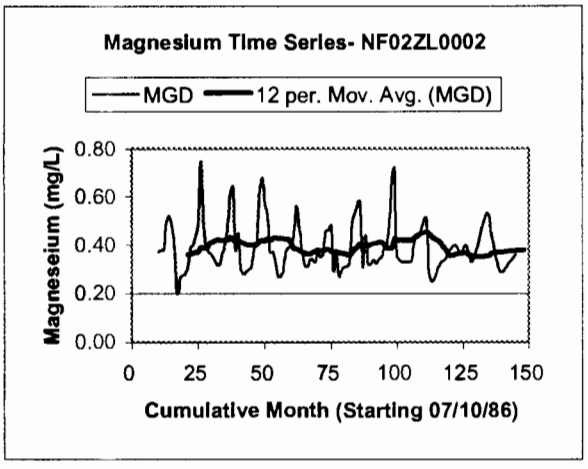


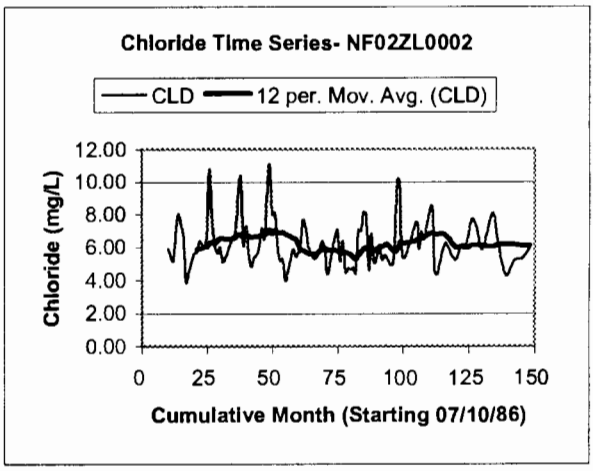

Calcium Time Series- NF02ZL0002
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

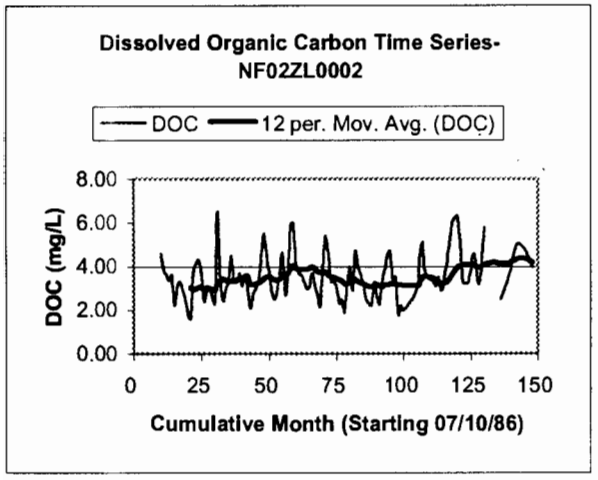

Potassium Time Series- NF02ZL0002
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

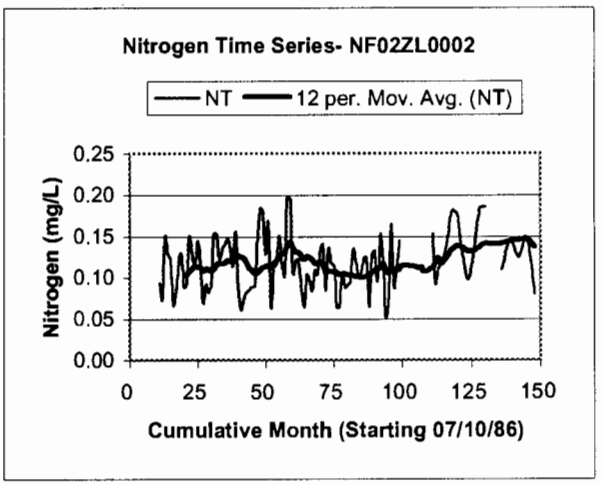

Sodium Time Series- NF02ZL0002
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

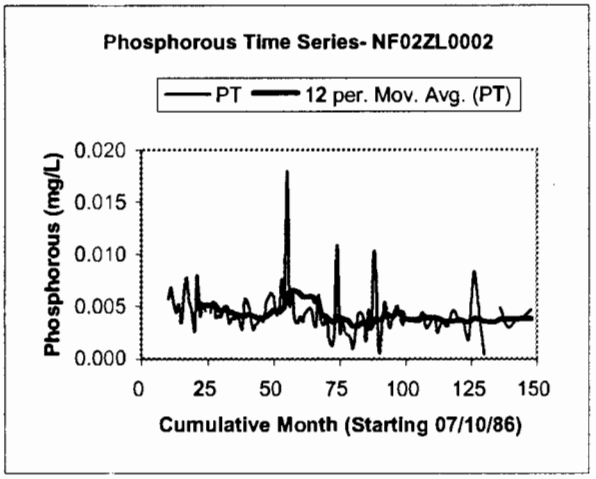

Sulphate Time Series- NF02ZL0002
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

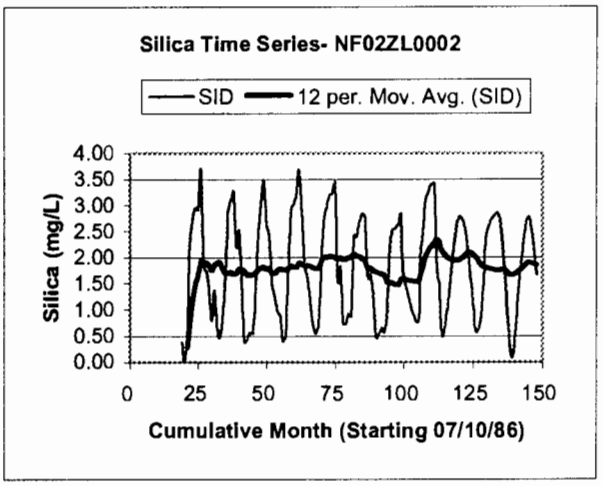

Magnesium Time Series- NF02ZL0002
MGD
12 per. Mov. Avg. (MGD)
Magneseium (mg/L)
0.80
0.60
0.40
0.20
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

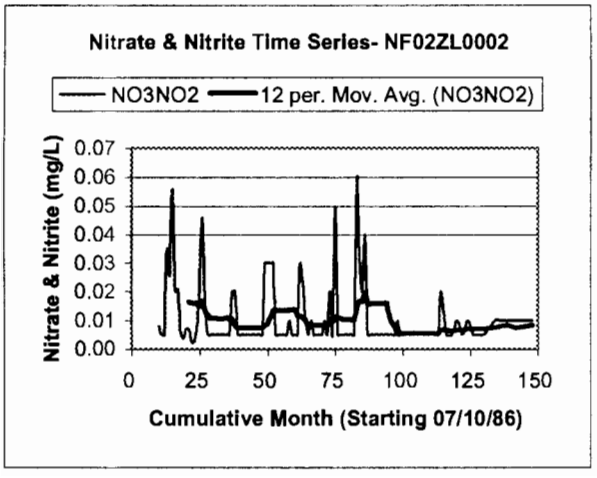

Chloride Time Series- NF02ZL0002
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

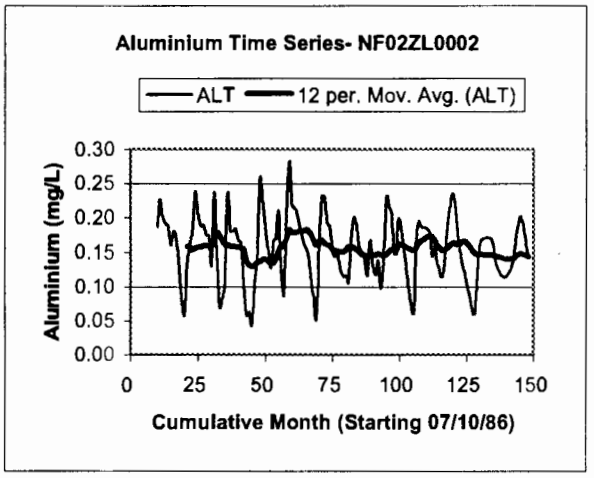

Dissolved Organic Carbon Time Series- NF02ZL0002
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
8.00
6.00
4.00
2.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

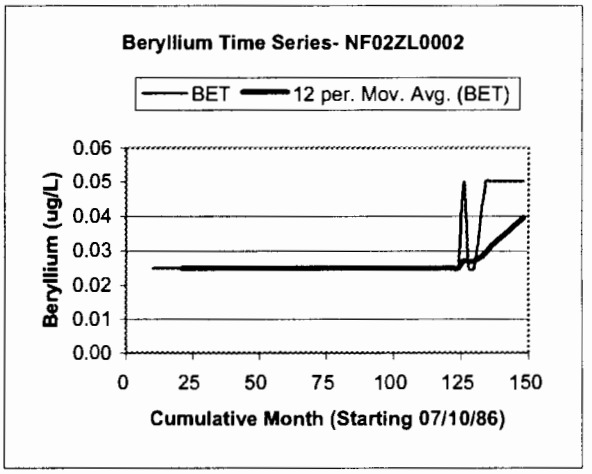

Nitrogen Time Series- NF02ZL0002
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

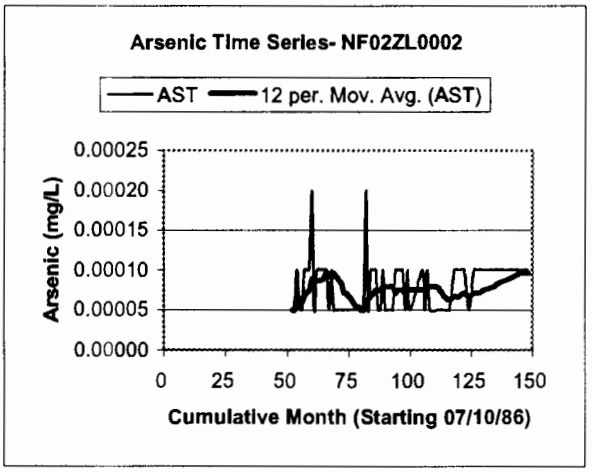

Phosphorous Time Series- NF02ZL0002
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

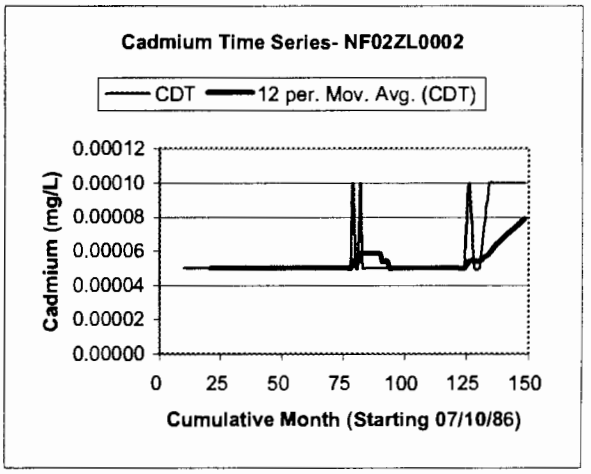

Silica Time Series- NF02ZL0002
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

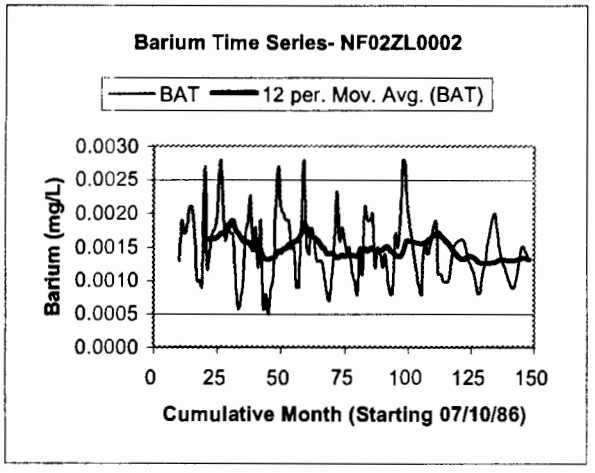

Nitrate & Nitrite Time Series- NF02ZL0002
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

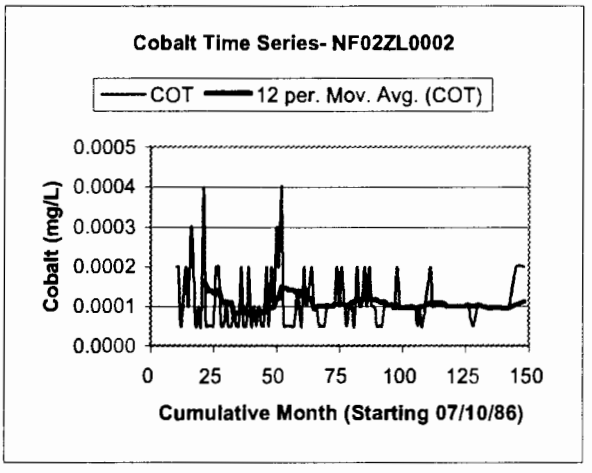

Aluminium Time Series- NF02ZL0002
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

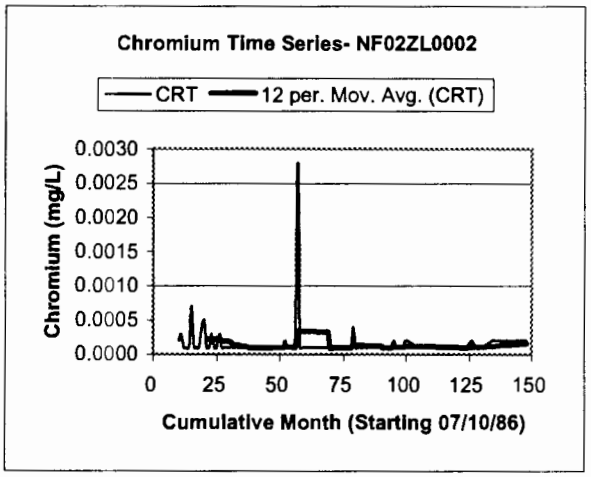

Beryllium Time Series- NF02ZL0002
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

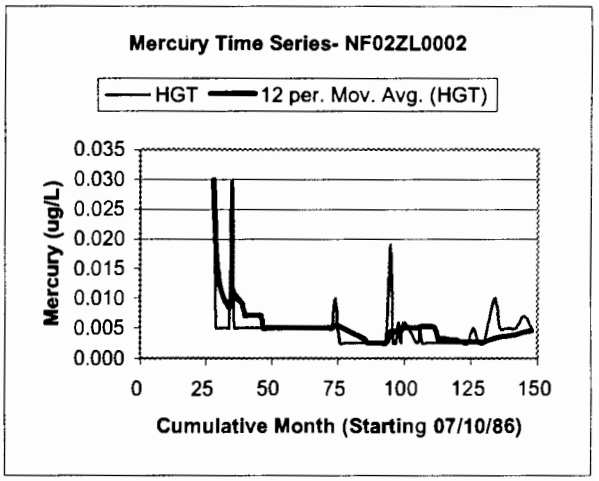

Arsenic Time Series- NF02ZL0002
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

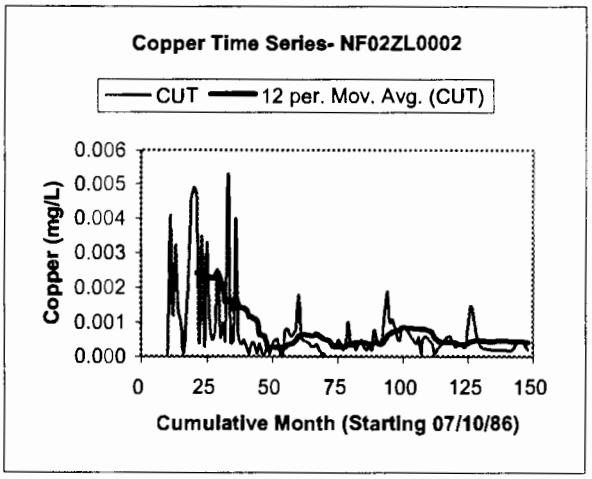

Cadmium Time Series- NF02ZL0002
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

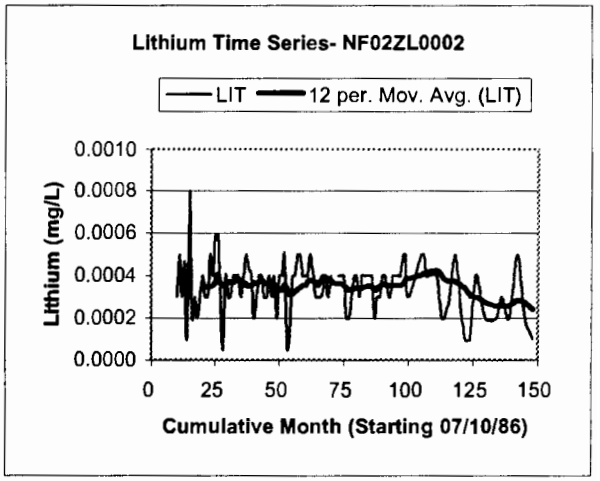

Barium Time Series- NF02ZL0002
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

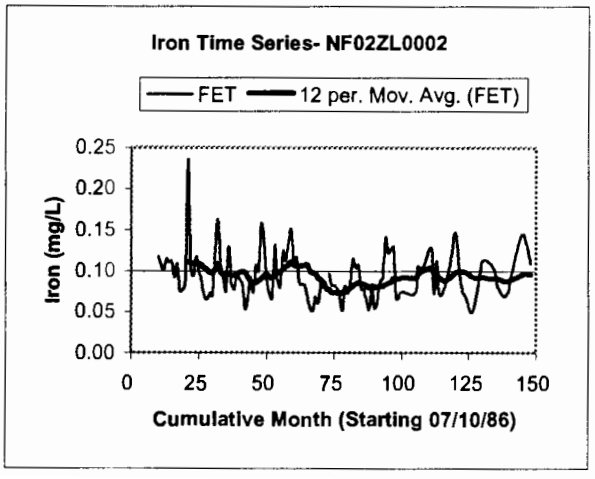

Cobalt Time Series- NF02ZL0002
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

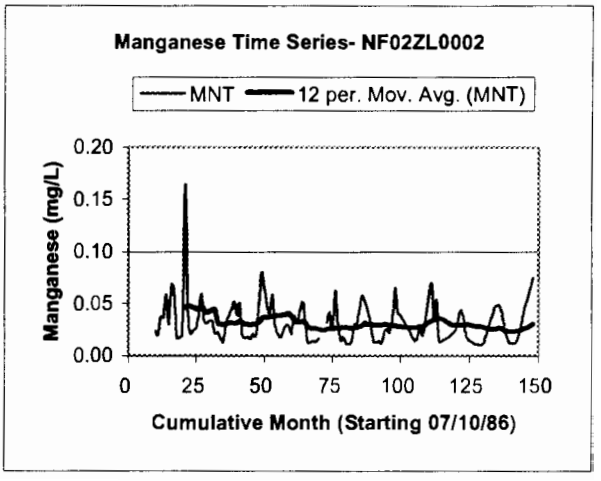

Chromium Time Series- NF02ZL0002
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

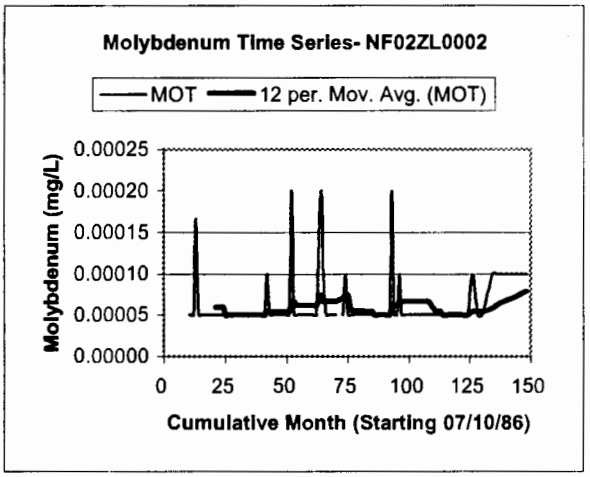

Mercury Time Series- NF02ZL0002
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

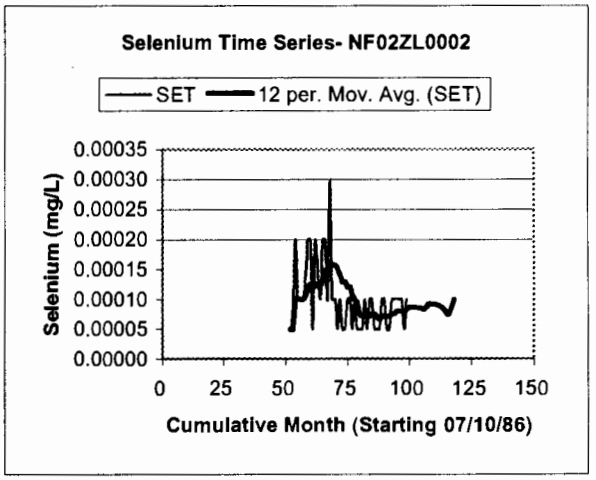

Copper Time Series- NF02ZL0002
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

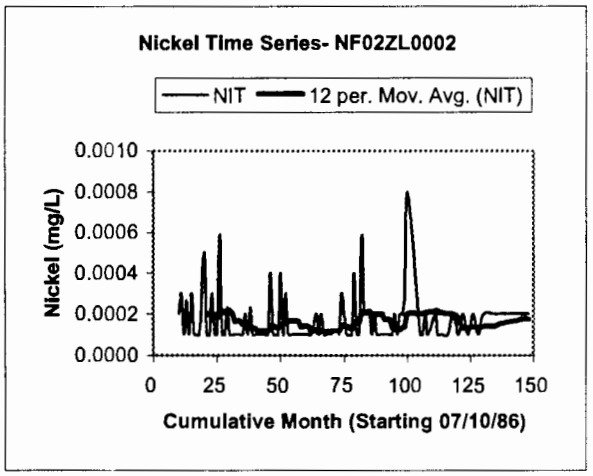

Lithium Time Series- NF02ZL0002
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

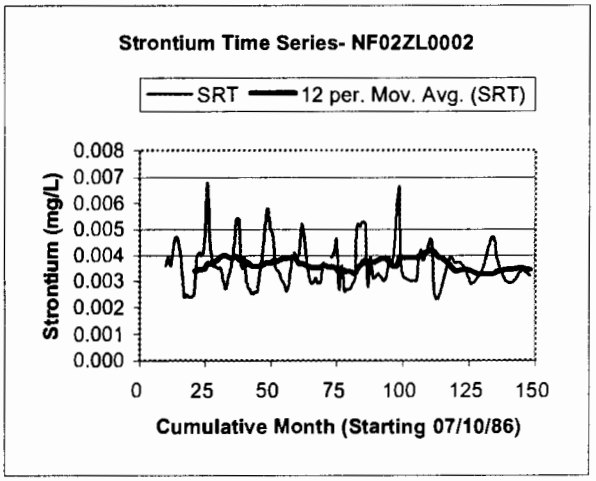

Iron Time Series- NF02ZL0002
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

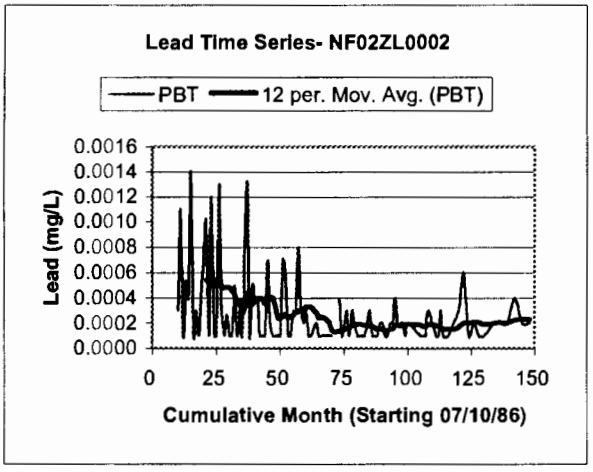

Manganese Time Series- NF02ZL0002
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

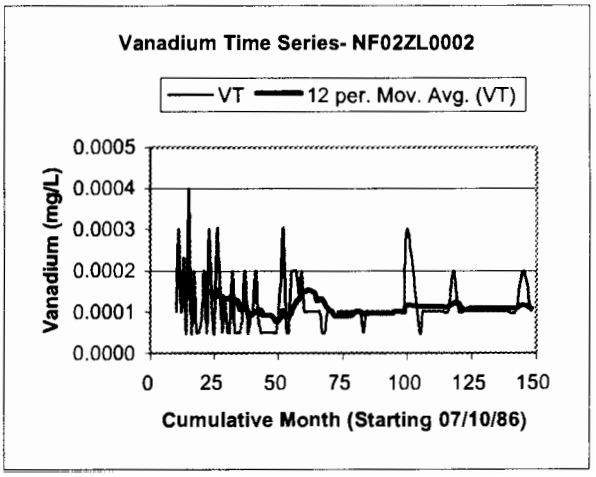

Molybdenum Time Series- NF02ZL0002
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

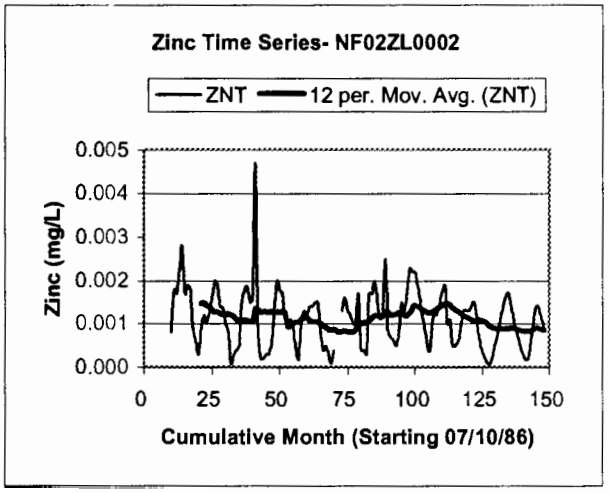

Selenium Time Series- NF02ZL0002
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)


Nickel Time Series- NF02ZL0002
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

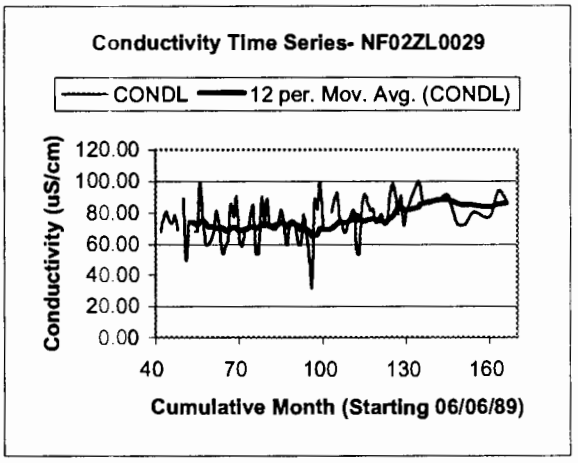

Strontium Time Series- NF02ZL0002
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

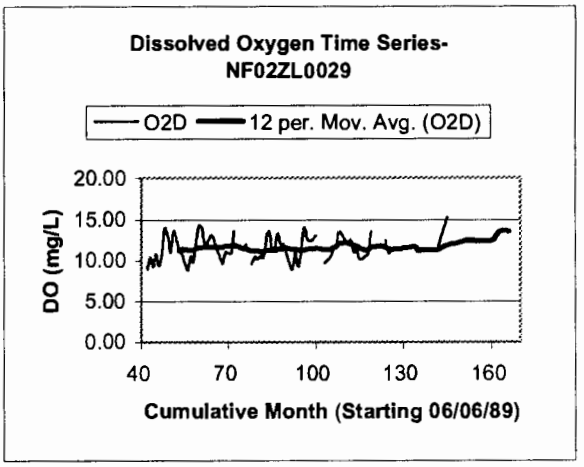

Lead Time Series- NF02ZL0002
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

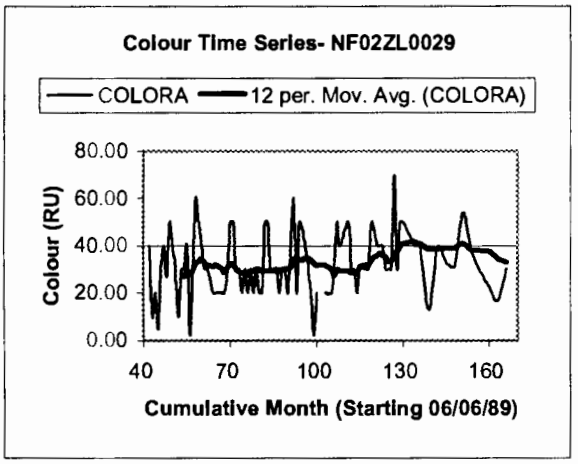

Vanadium Time Series- NF02ZL0002
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

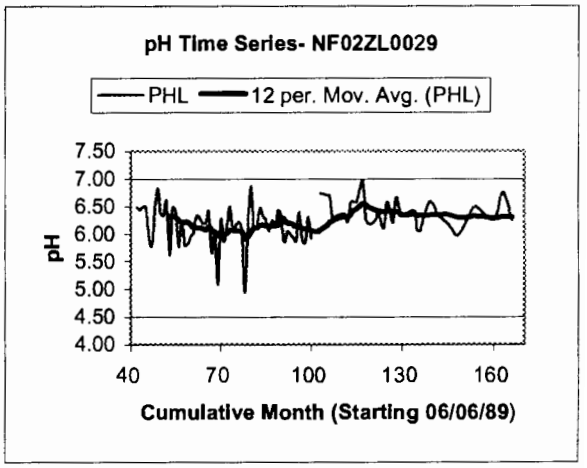

Zinc Time Series- NF02ZL0002
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 07/10/86)

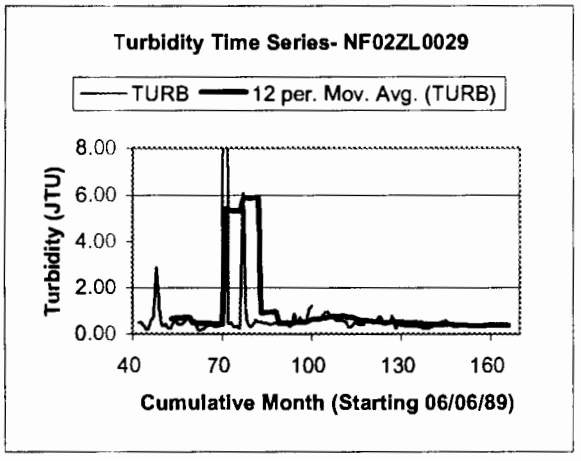
Time Series Plots of Goulds Brook- NF02ZL0029

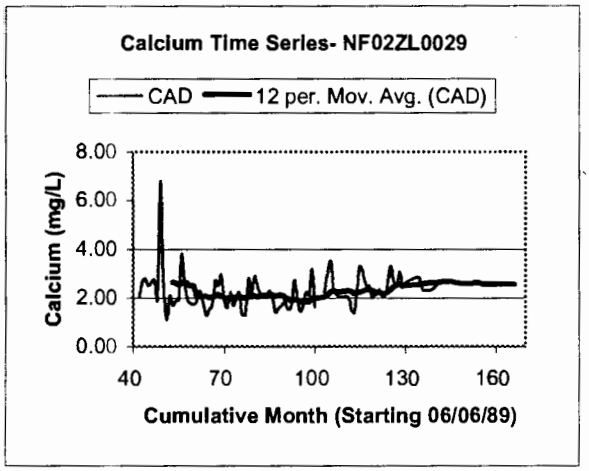


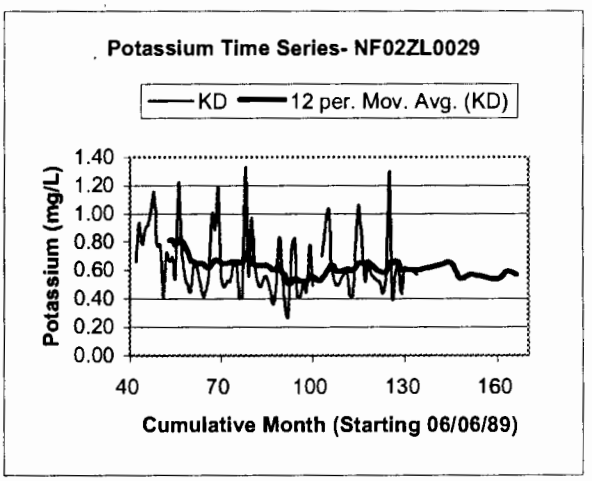


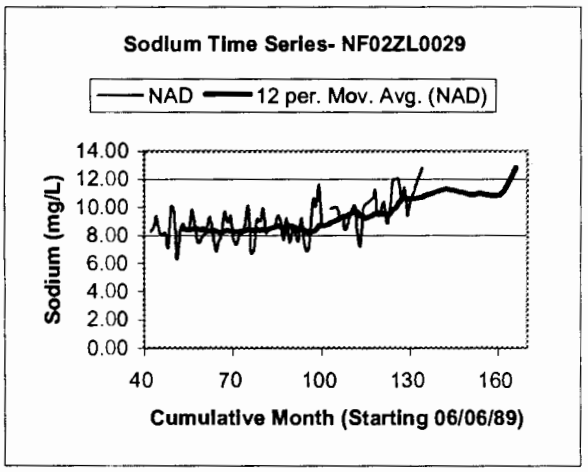


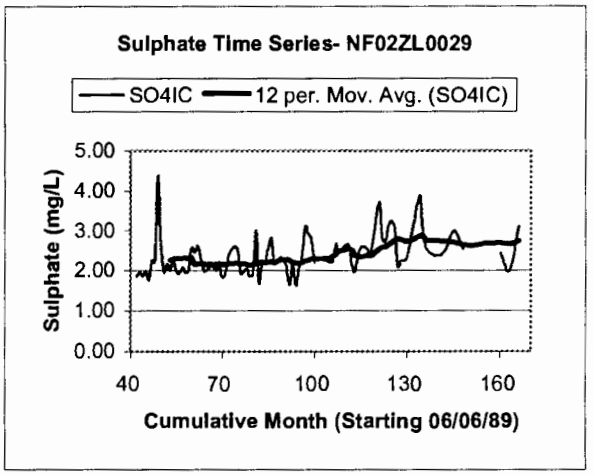


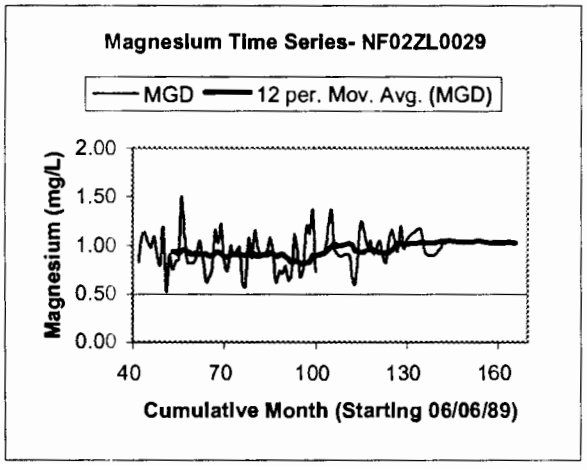


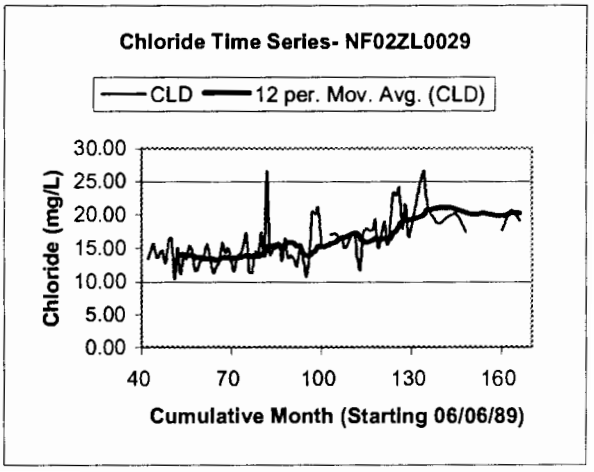

Calcium Time Series- NF02ZL0029
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
8.00
6.00
4.00
2.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

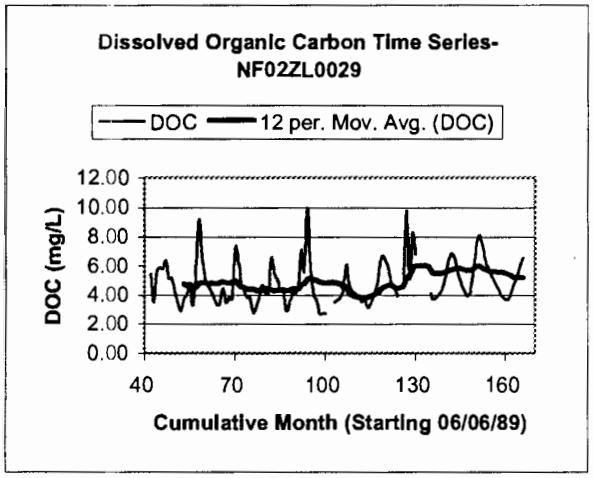

Potassium Time Series- NF02ZL0029
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

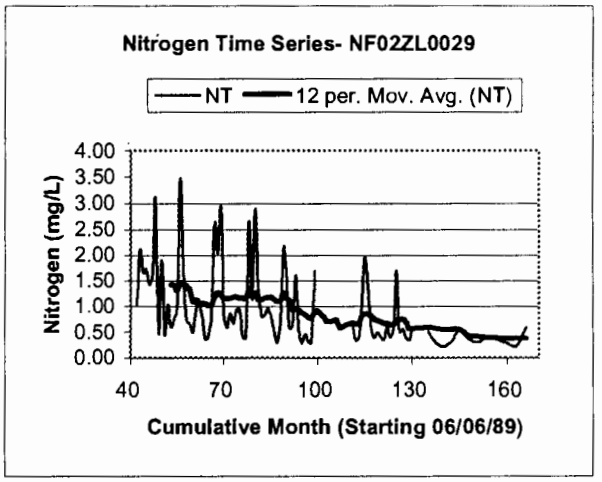

Sodium Time Series- NF02ZL0029
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

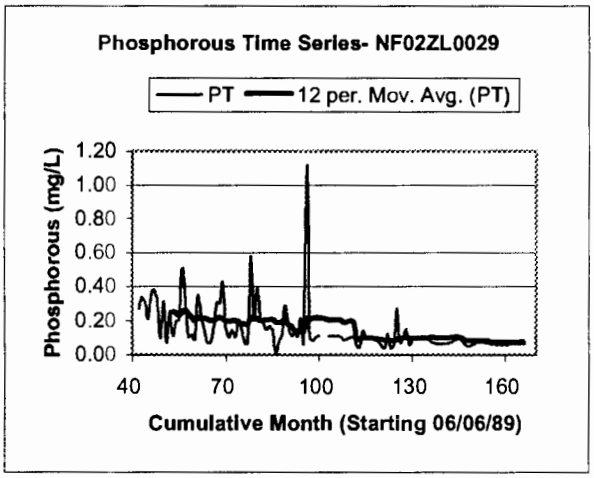

Sulphate Time Series- NF02ZL0029
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

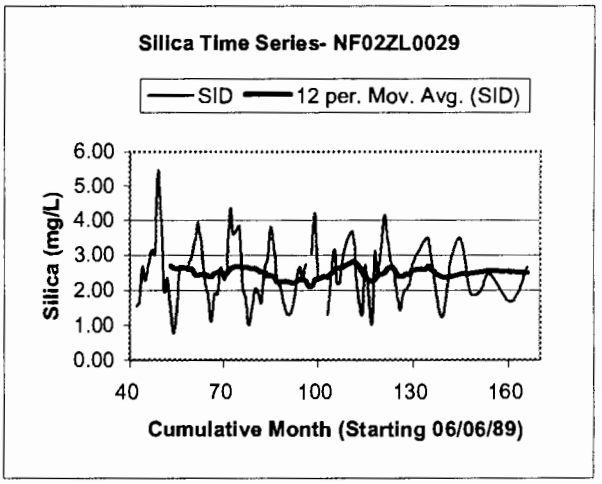

Magnesium Time Series- NF02ZL0029
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

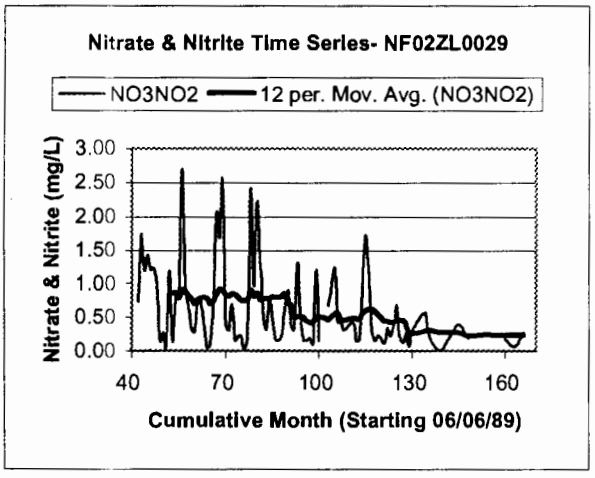

Chloride Time Series- NF02ZL0029
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

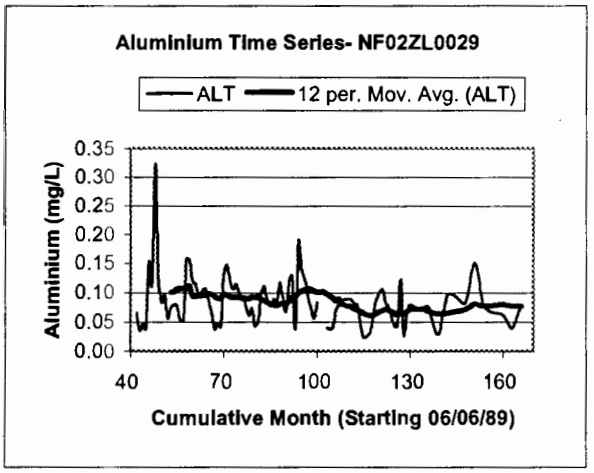

Dissolved Organic Carbon Time Series- NF02ZL0029
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

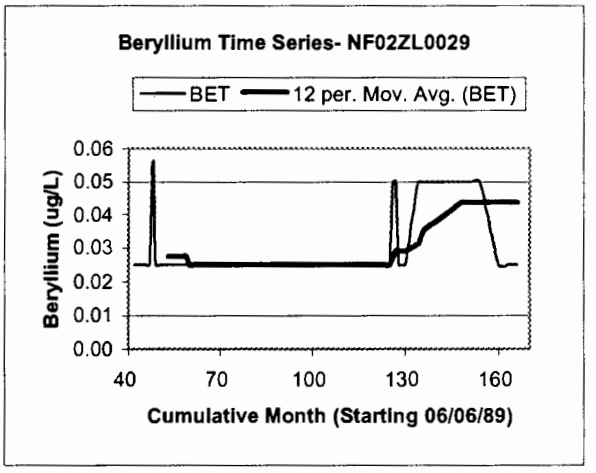

Nitrogen Time Series- NF02ZL0029
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

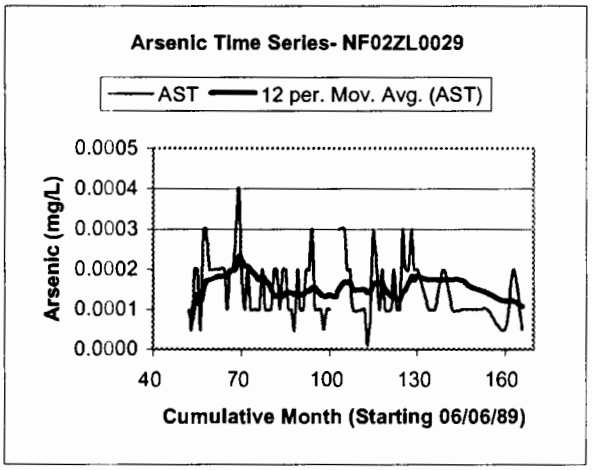

Phosphorous Time Series- NF02ZL0029
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

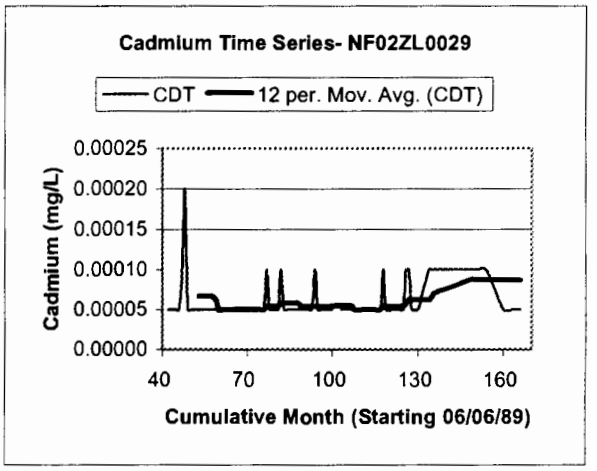

Silica Time Series- NF02ZL0029
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

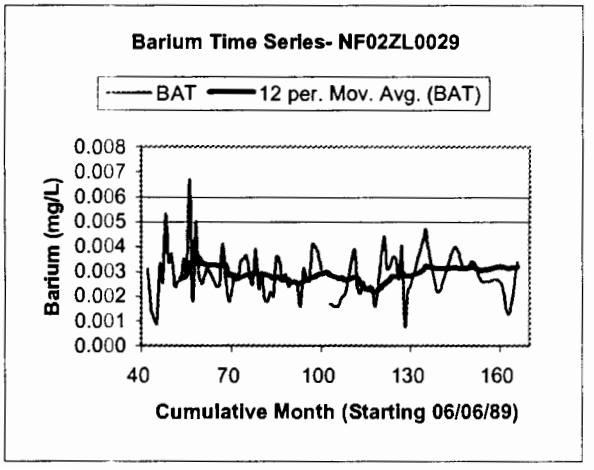

Nitrate & Nitrite Time Series- NF02ZL0029
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

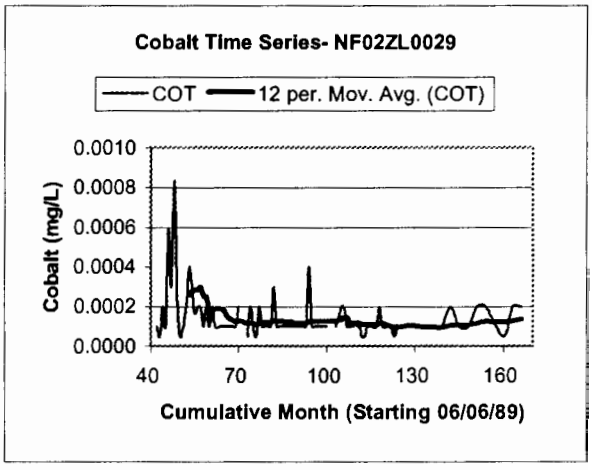

Aluminium Time Series- NF02ZL0029
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

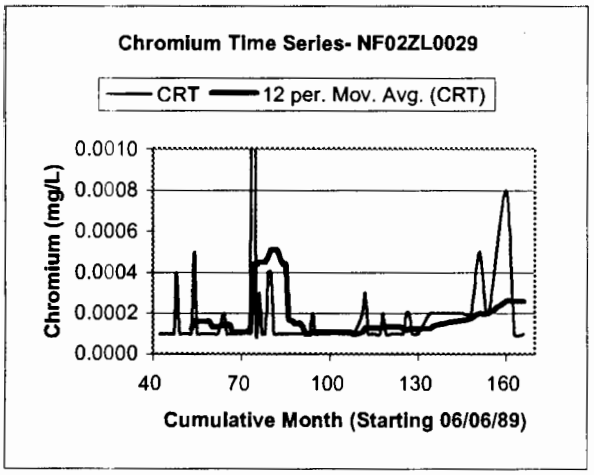

Beryllium Time Series- NF02ZL0029
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

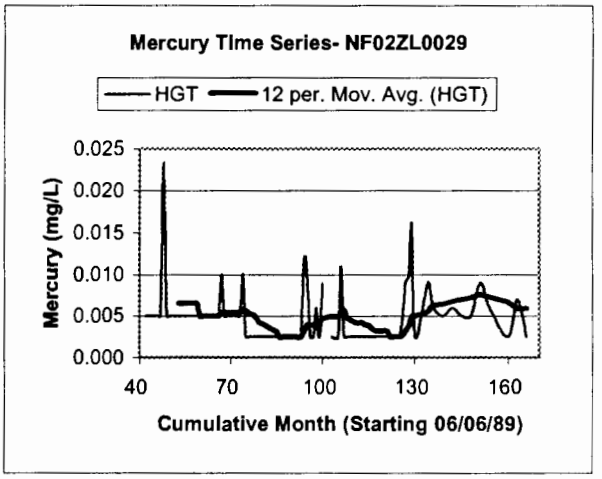

Arsenic Time Series- NF02ZL0029
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

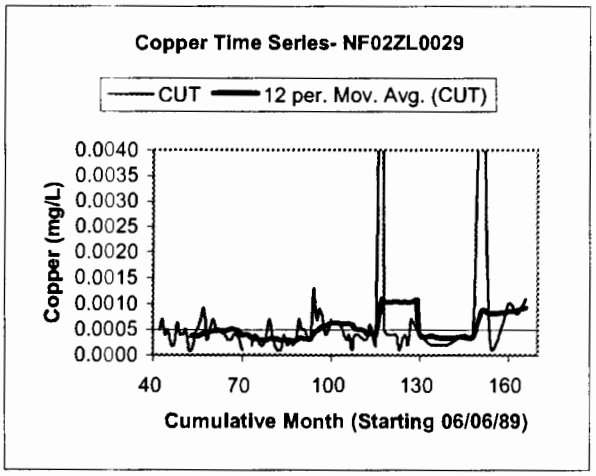

Cadmium Time Series- NF02ZL0029
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

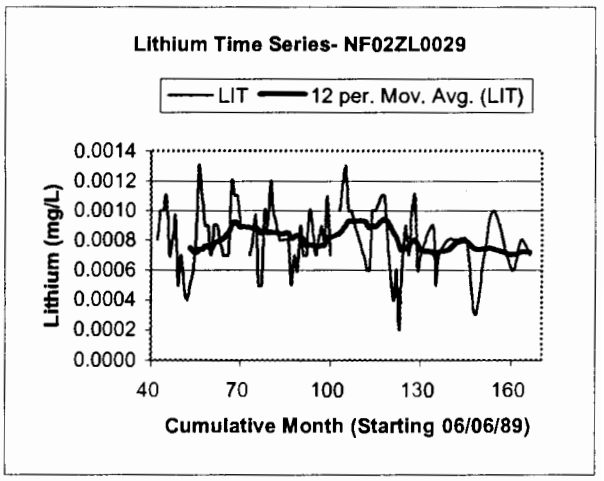

Barium Time Series- NF02ZL0029
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

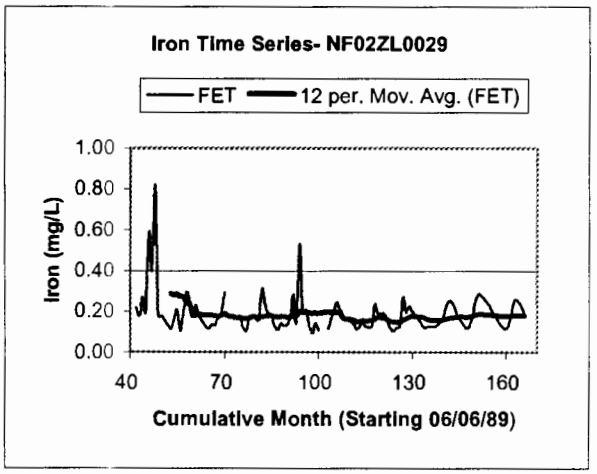

Cobalt Time Series- NF02ZL0029
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

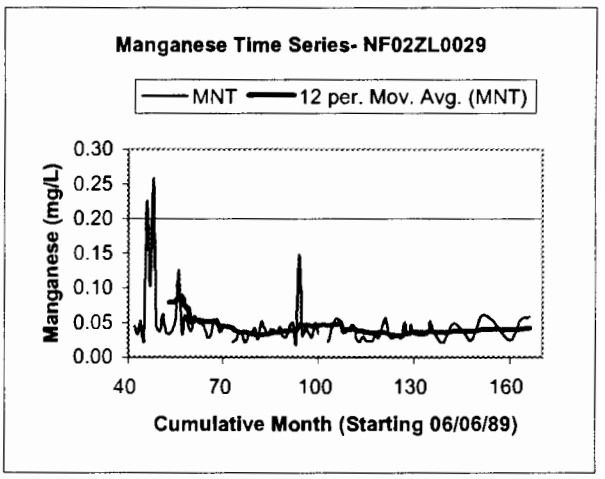

Chromium Time Series- NF02ZL0029
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

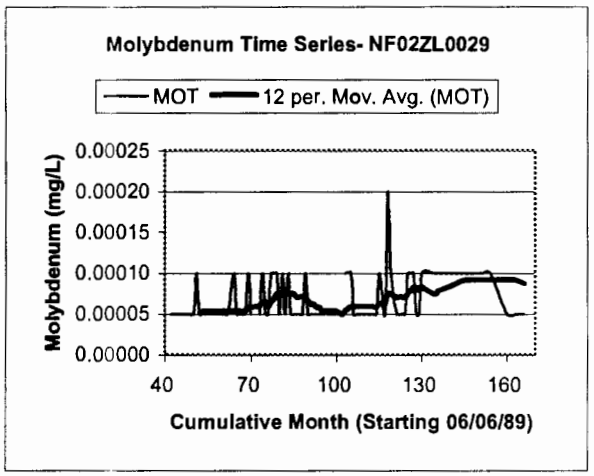

Mercury Time Series- NF02ZL0029
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

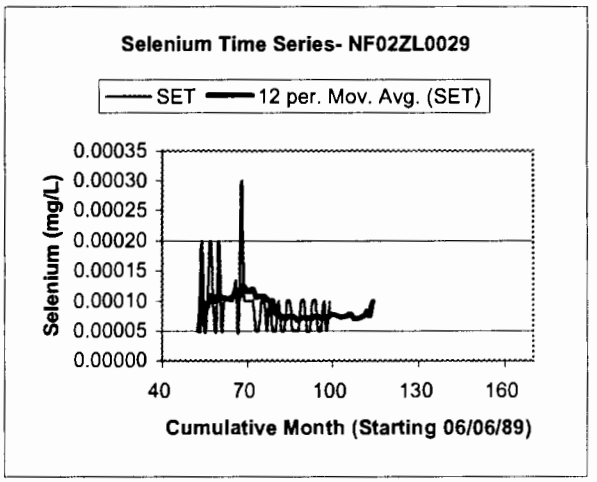

Copper Time Series- NF02ZL0029
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

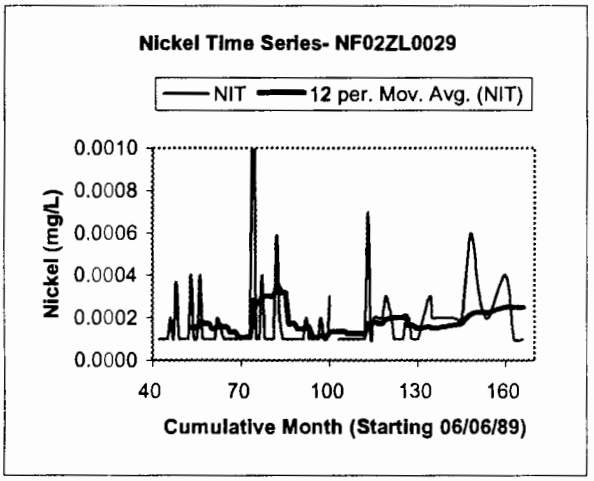

Lithium Time Series- NF02ZL0029
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

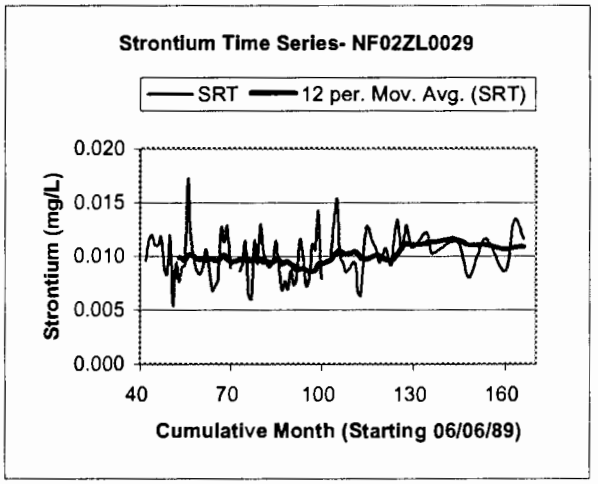

Iron Time Series- NF02ZL0029
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

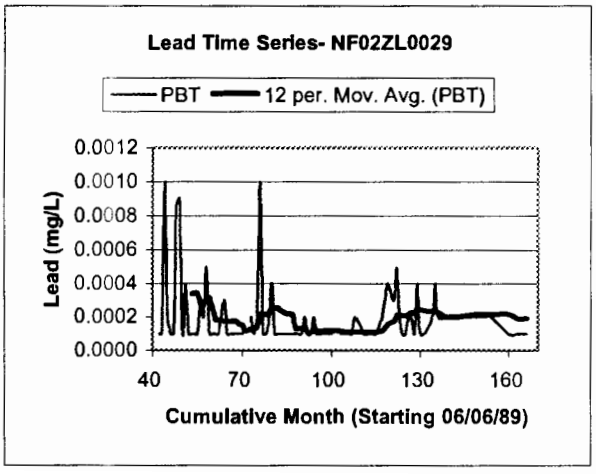

Manganese Time Series- NF02ZL0029
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

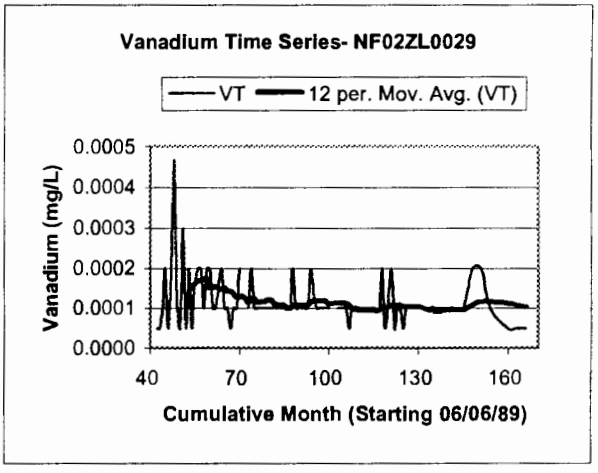

Molybdenum Time Series- NF02ZL0029
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

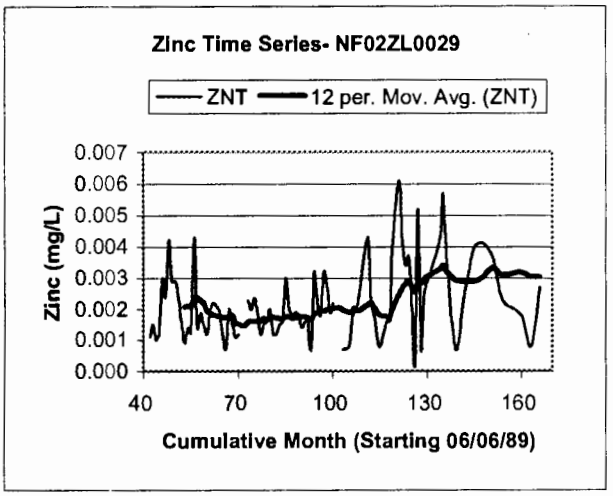

Selenium Time Series- NF02ZL0029
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)


Nickel Time Series- NF02ZL0029
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

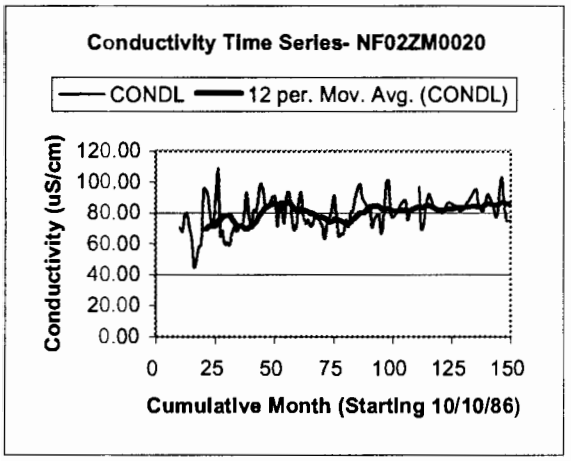

Strontium Time Series- NF02ZL0029
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

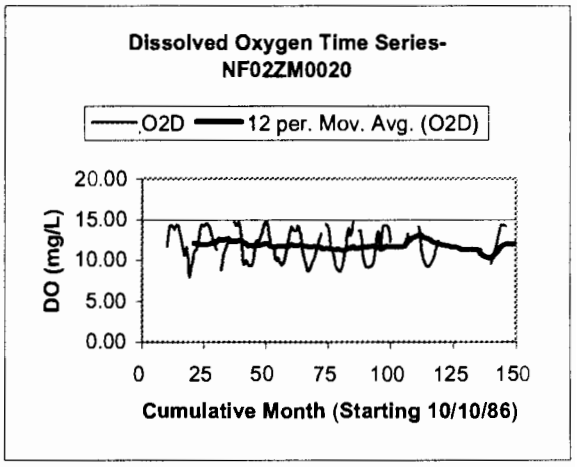

Lead Time Series- NF02ZL0029
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

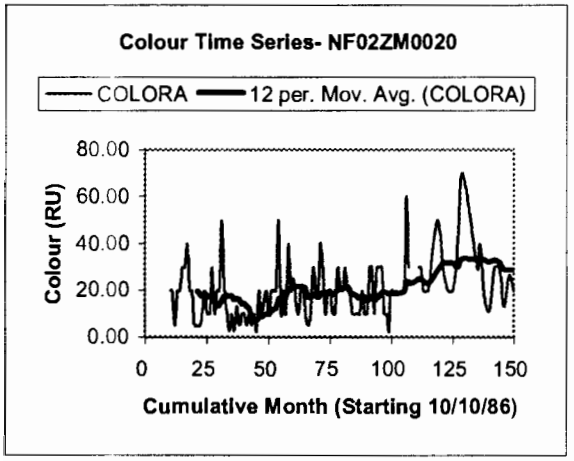

Vanadium Time Series- NF02ZL0029
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

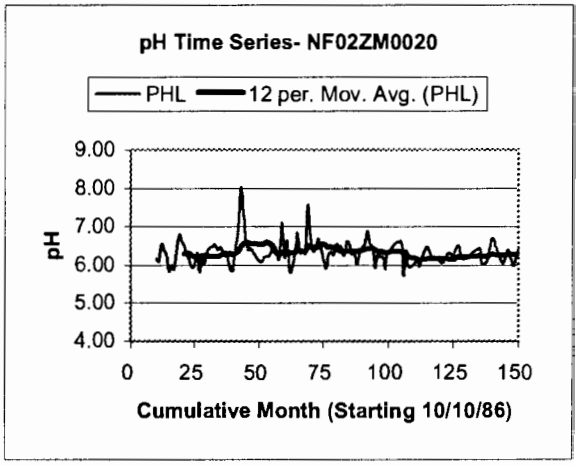

Zinc Time Series- NF02ZL0029
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
40
70
100
130
160
Cumulative Month (Starting 06/06/89)

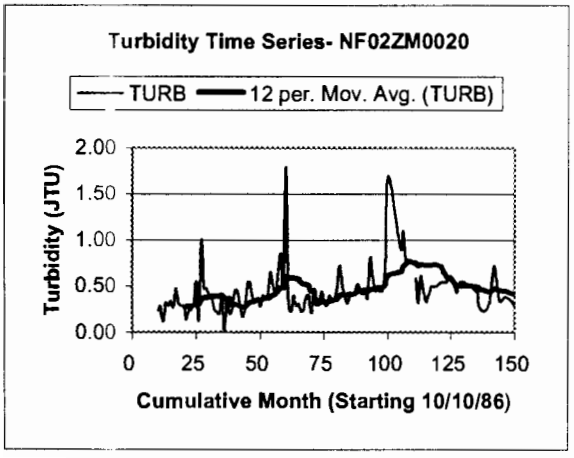
Time Series Plots of Broad Cove Brook- NF02ZM0020

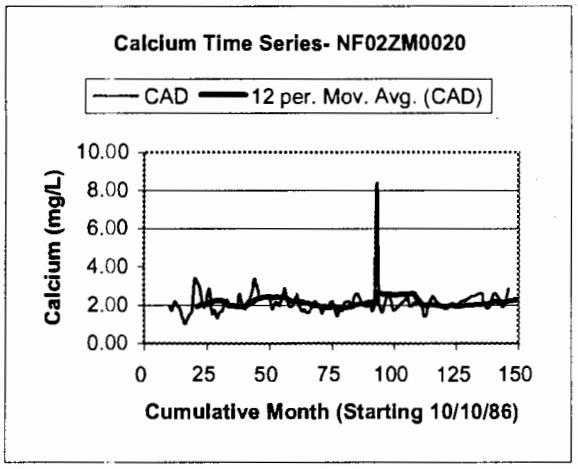


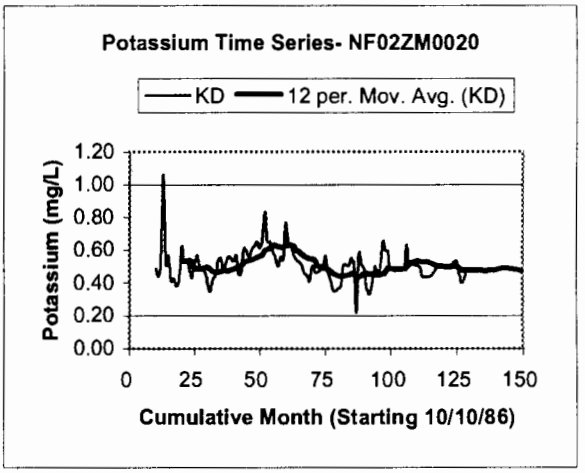


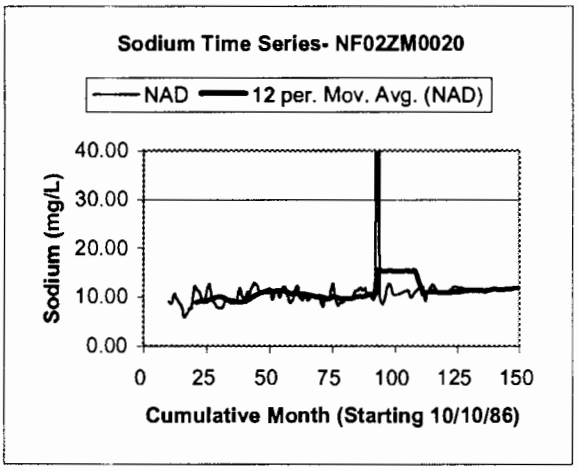


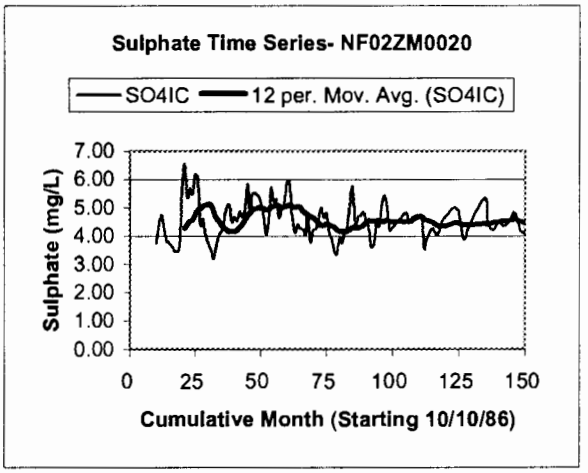


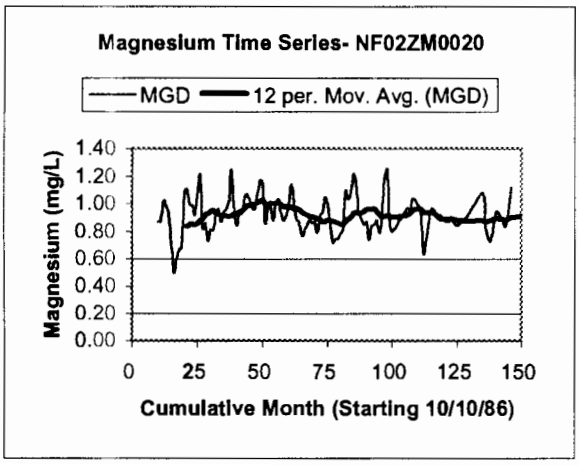


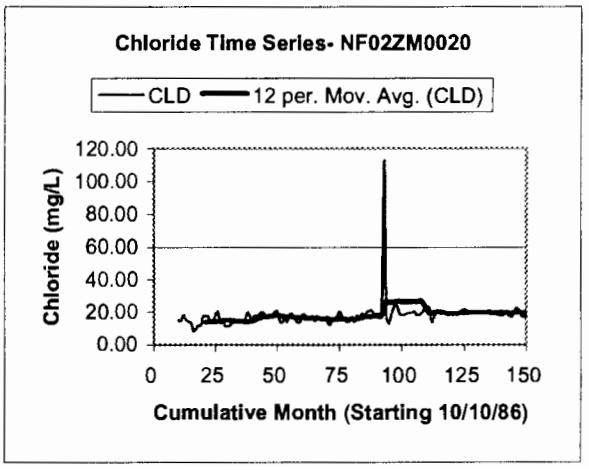

Calcium Time Series- NF02ZM0020
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

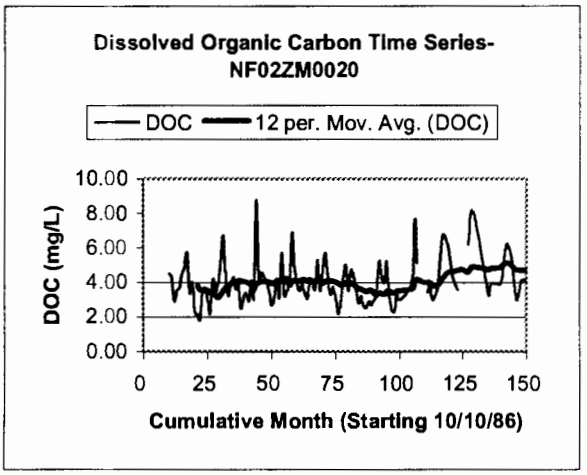

Potassium Time Series- NF02ZM0020
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

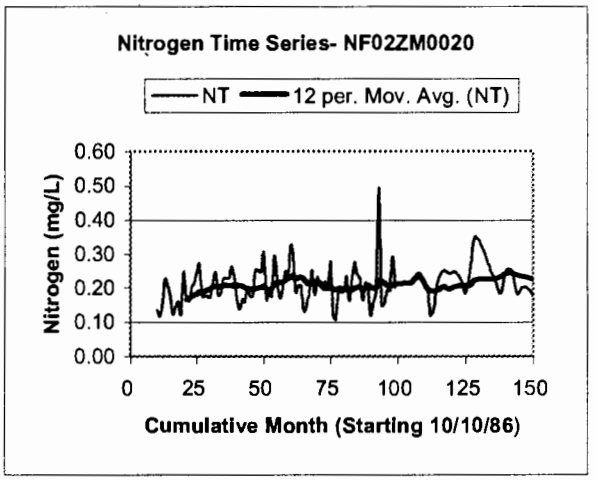

Sodium Time Series- NF02ZM0020
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
40.00
30.00
20.00
10.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

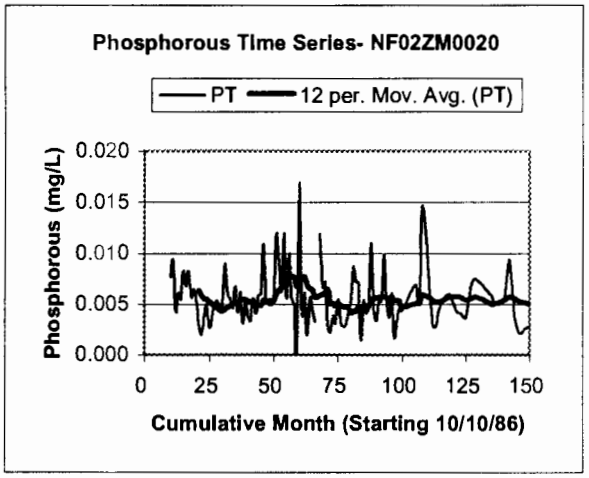

Sulphate Time Series- NF02ZM0020
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

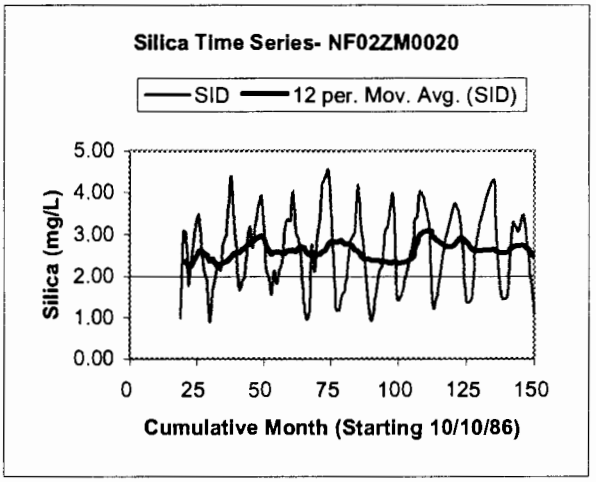

Magnesium Time Series- NF02ZM0020
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

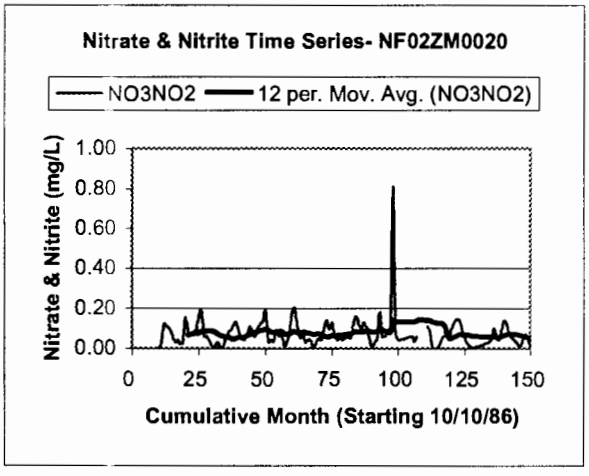

Chloride Time Series- NF02ZM0020
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
120.00
100.00
80.00
60.00
40.00
20.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

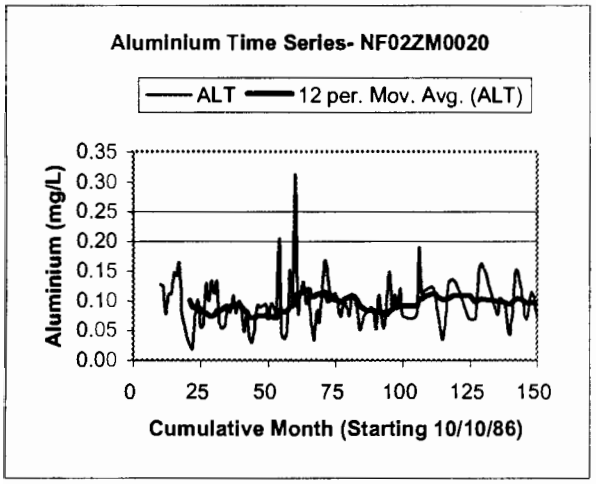

Dissolved Organic Carbon Time Series- NF02ZM0020
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

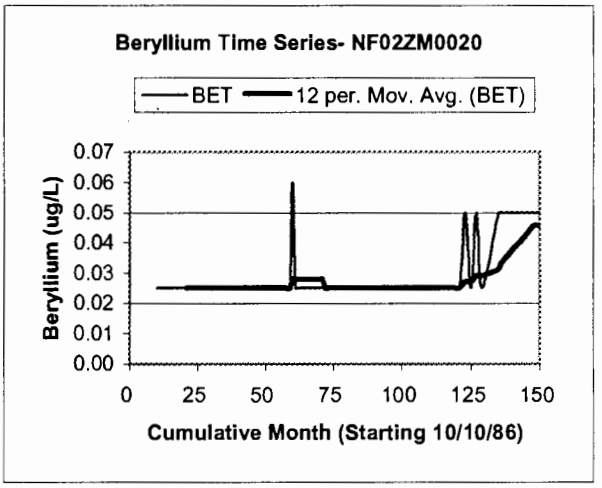

Nitrogen Time Series- NF02ZM0020
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

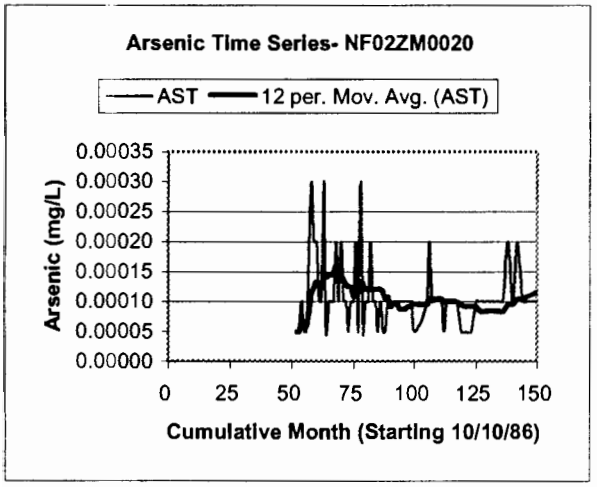

Phosphorous Time Series- NF02ZM0020
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

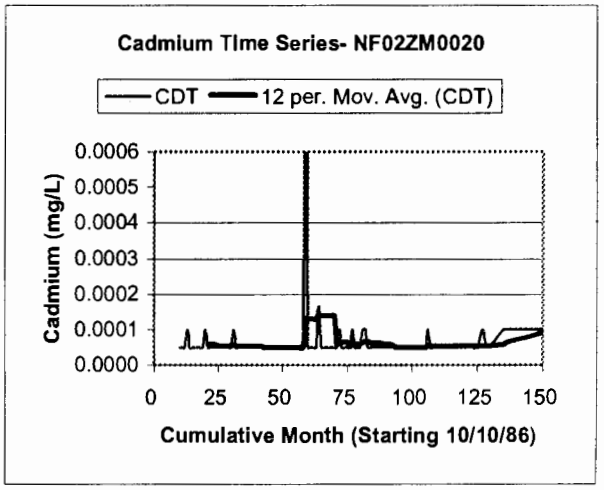

Silica Time Series- NF02ZM0020
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

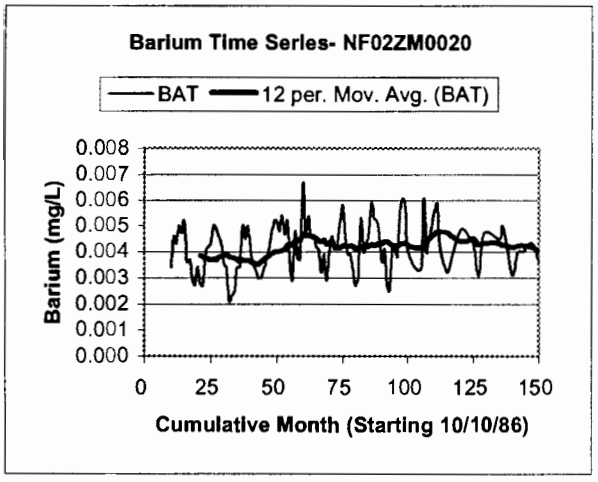

Nitrate & Nitrite Time Series- NF02ZM0020
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

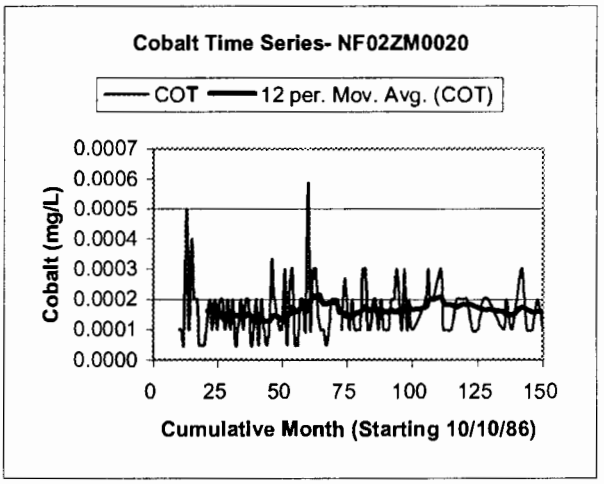

Aluminium Time Series- NF02ZM0020
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

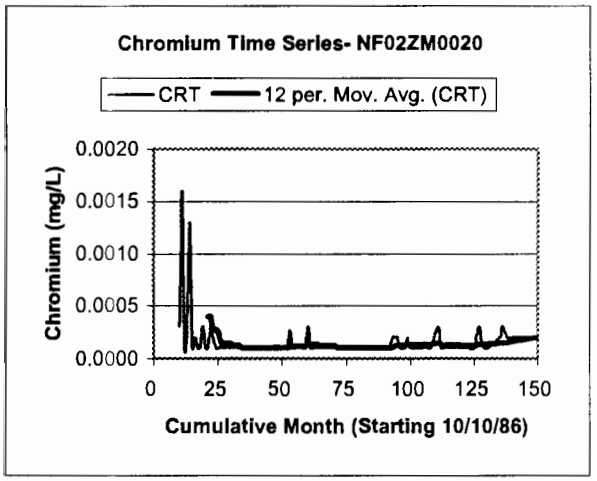

Beryllium Time Series- NF02ZM0020
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

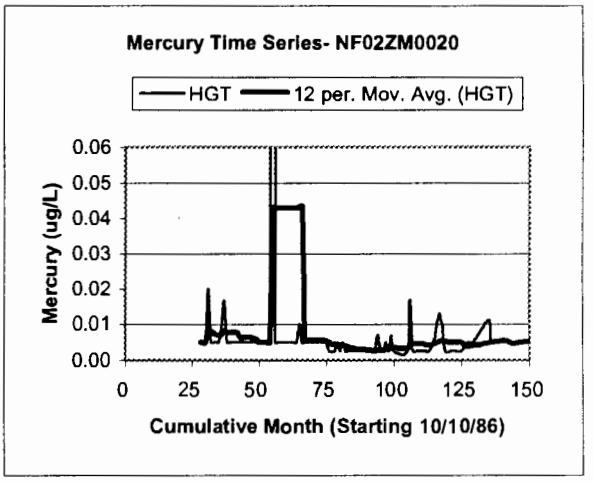

Arsenic Time Series- NF02ZM0020
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

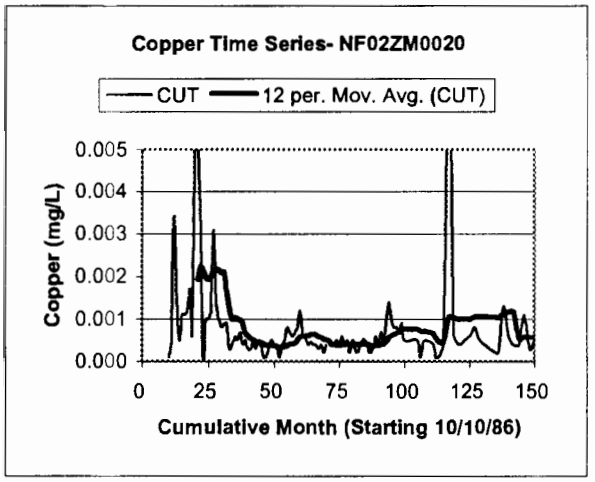

Cadmium Time Series- NF02ZM0020
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

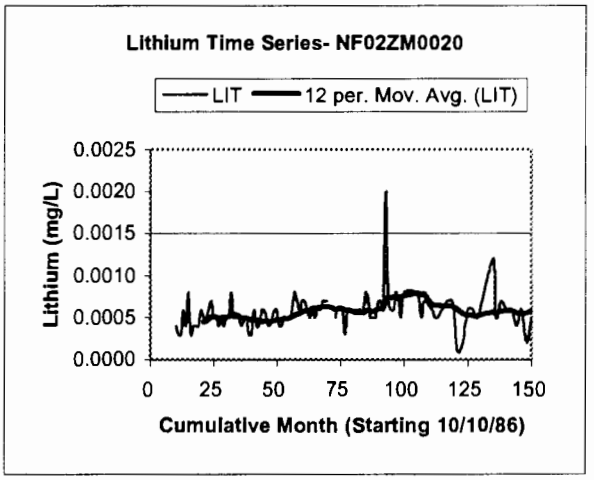

Barium Time Series- NF02ZM0020
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

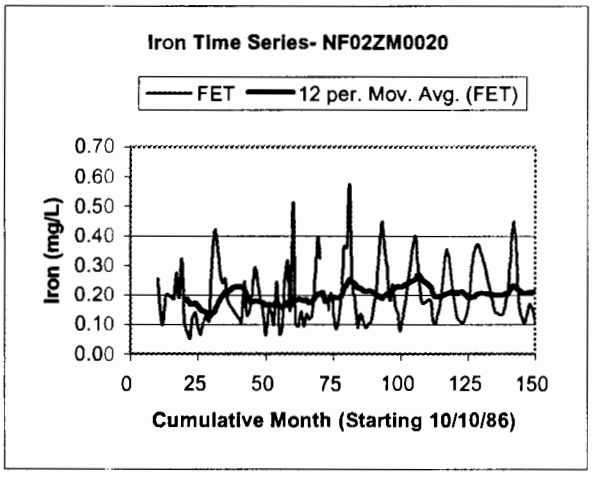

Cobalt Time Series- NF02ZM0020
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

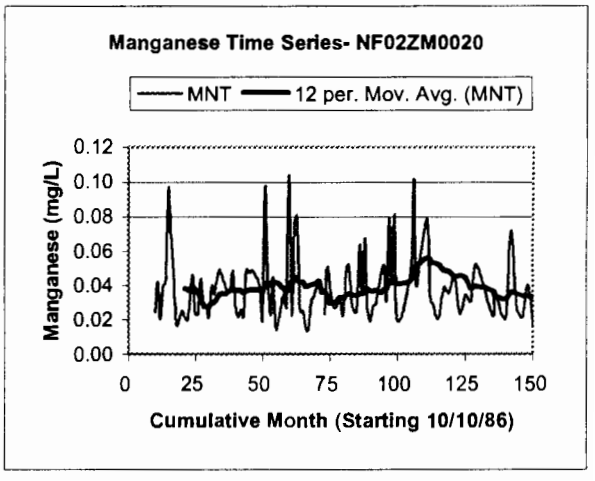

Chromium Time Series- NF02ZM0020
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

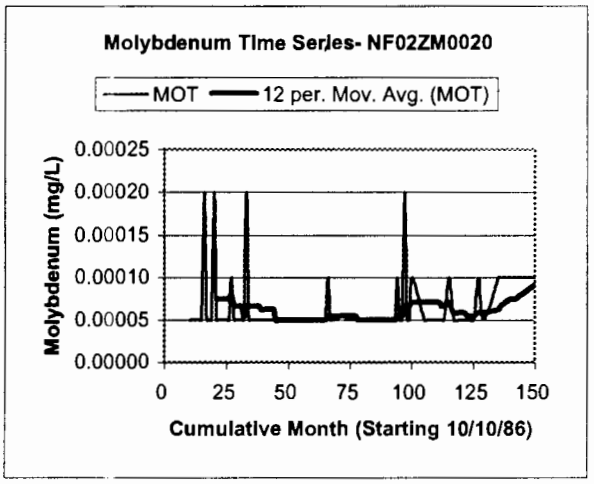

Mercury Time Series- NF02ZM0020
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

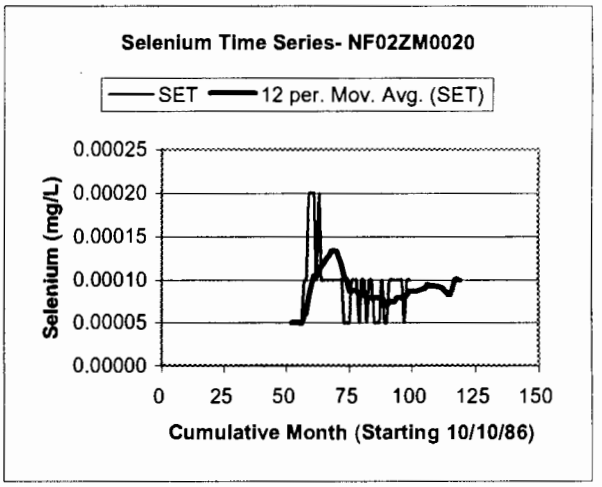

Copper Time Series- NF02ZM0020
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

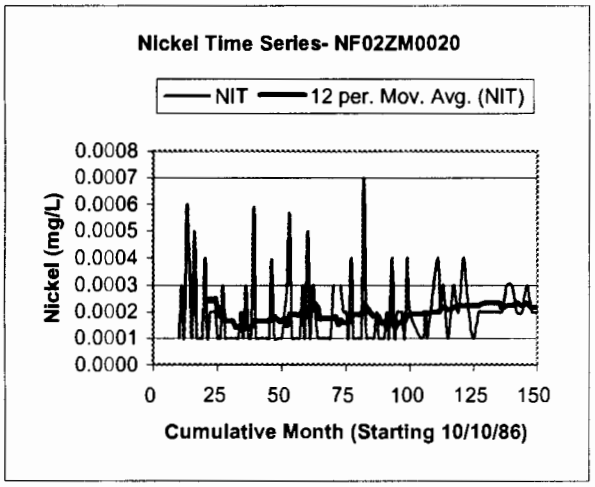

Lithium Time Series- NF02ZM0020
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

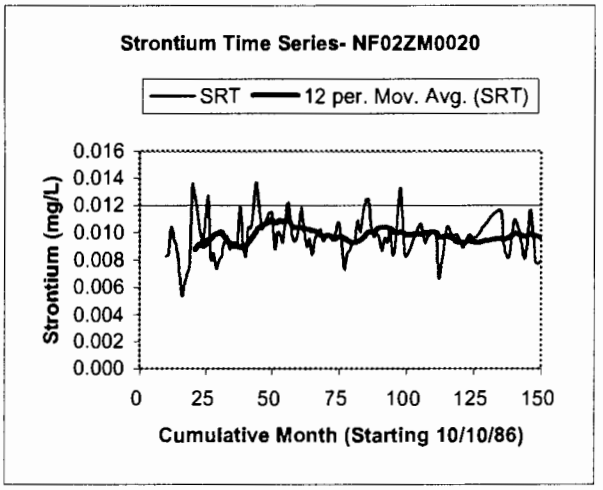

Iron Time Series- NF02ZM0020
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

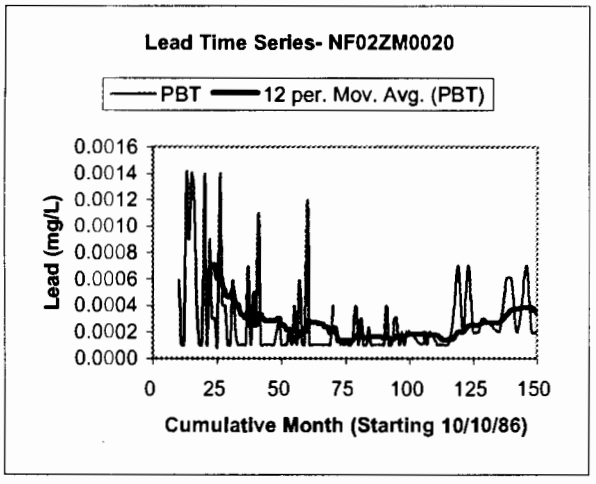

Manganese Time Series- NF02ZM0020
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

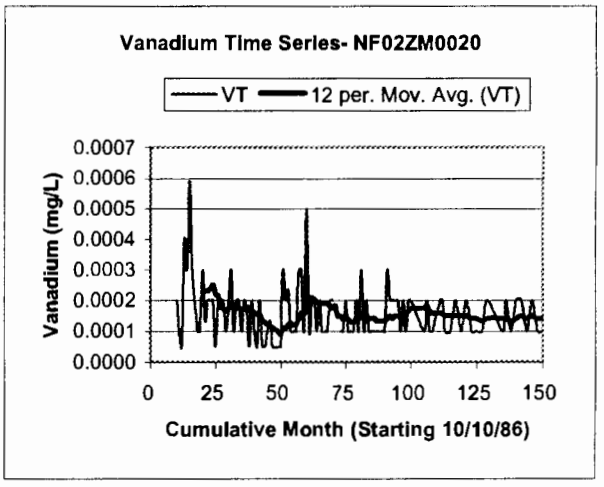

Molybdenum Time Series- NF02ZM0020
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

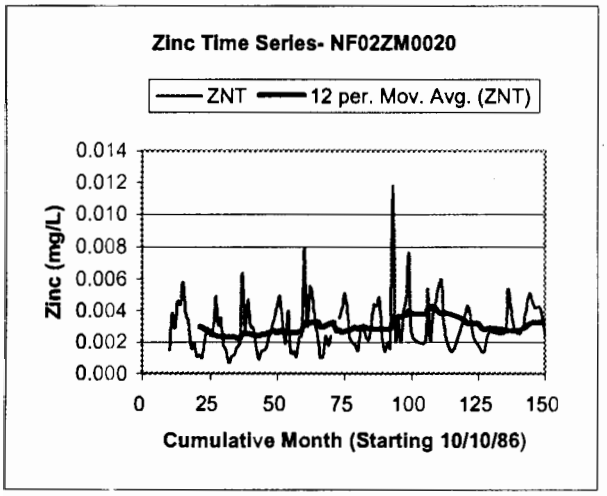

Selenium Time Series- NF02ZM0020
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)


Nickel Time Series- NF02ZM0020
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

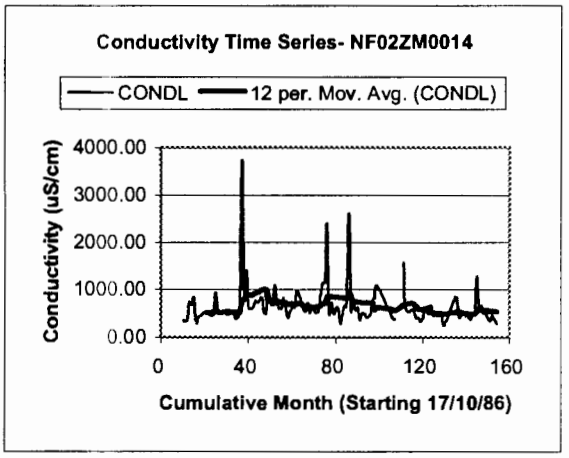

Strontium Time Series- NF02ZM0020
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

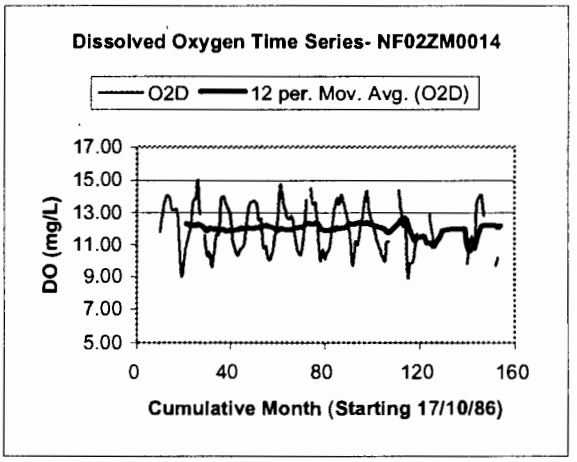

Lead Time Series- NF02ZM0020
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

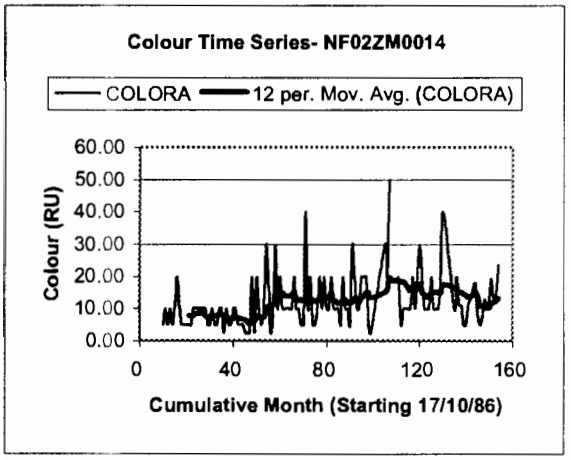

Vanadium Time Series- NF02ZM0020
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

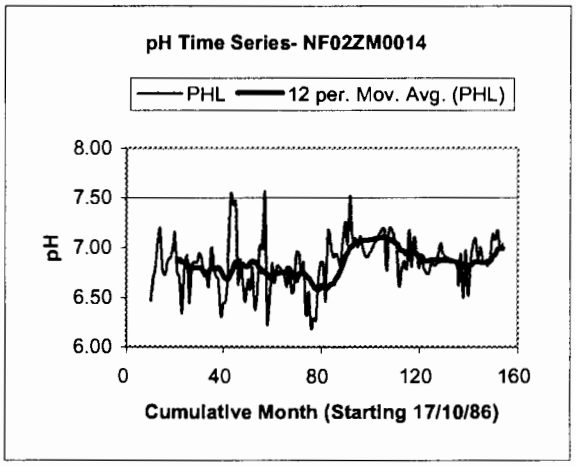

Zinc Time Series- NF02ZM0020
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
25
50
75
100
125
150
Cumulative Month (Starting 10/10/86)

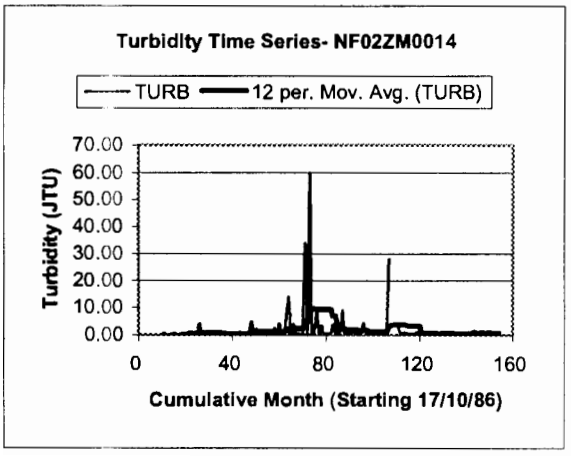
Time Series Plots of Virginia River (@ Boulevard)- NF02ZM0014

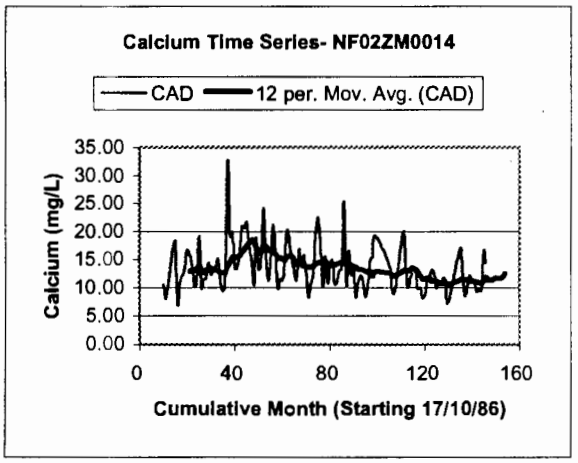


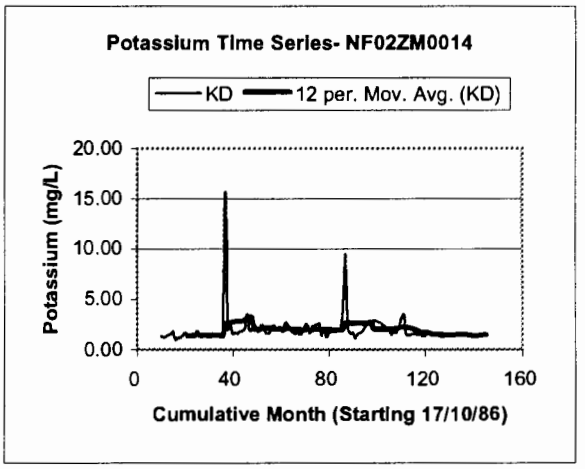


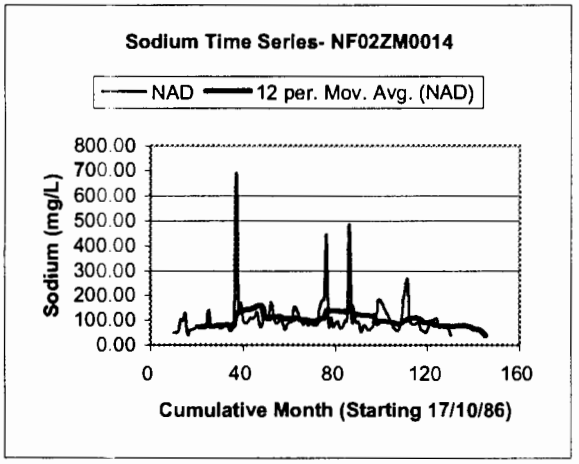


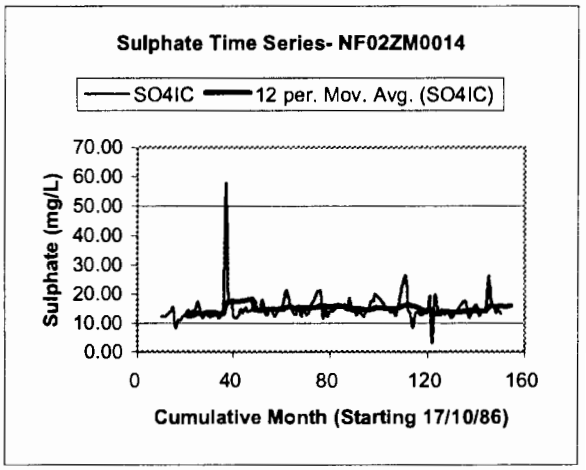


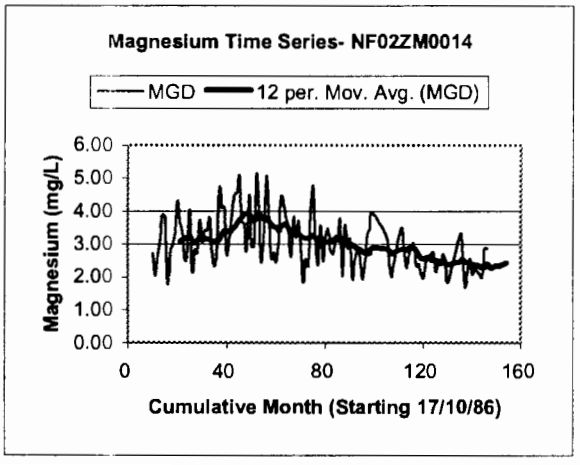


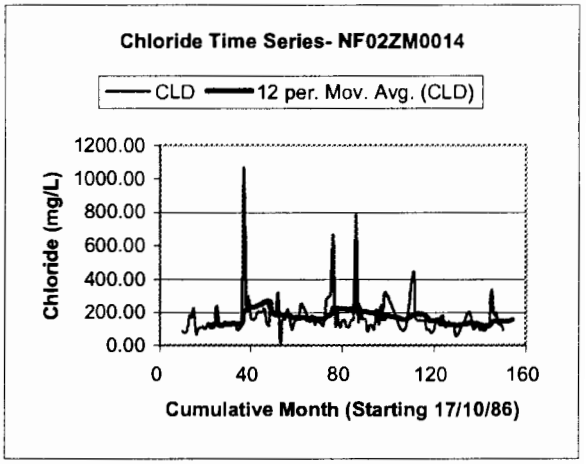

Calcium Time Series- NF02ZM0014
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

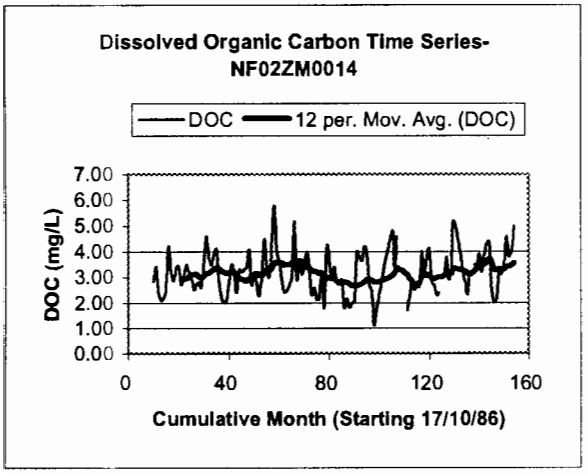

Potassium Time Series- NF02ZM0014
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

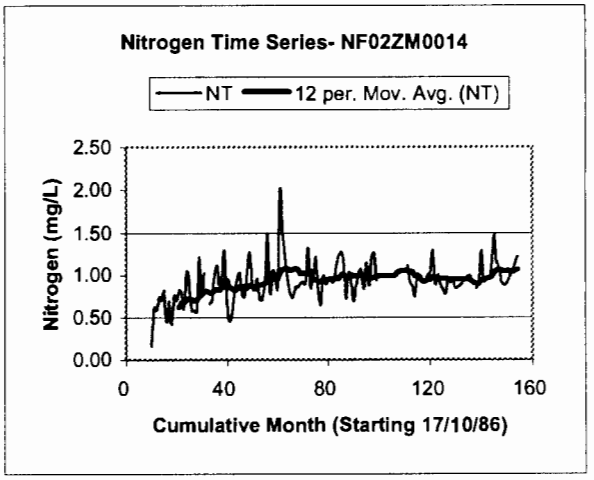

Sodium Time Series- NF02ZM0014
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

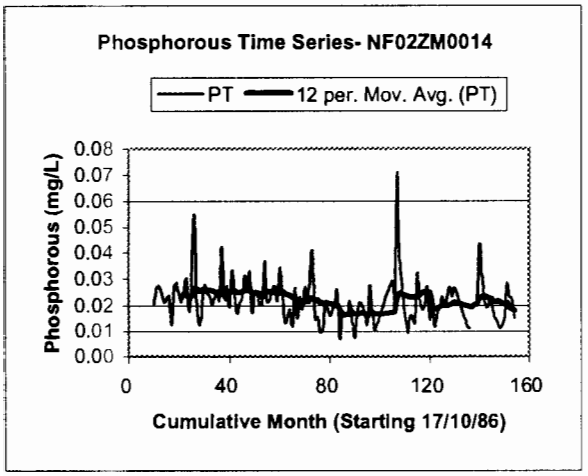

Sulphate Time Series- NF02ZM0014
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

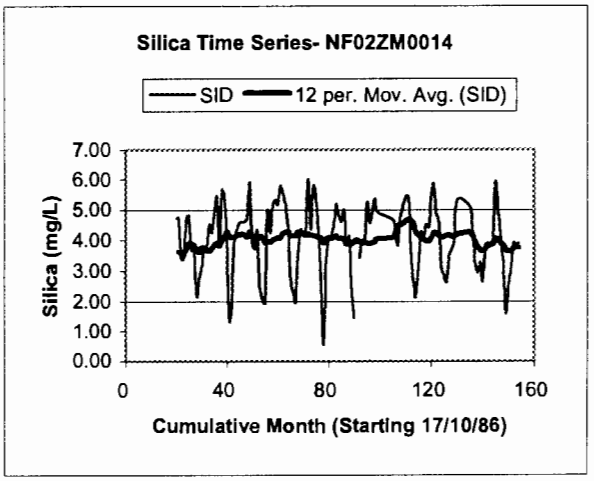

Magnesium Time Series- NF02ZM0014
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

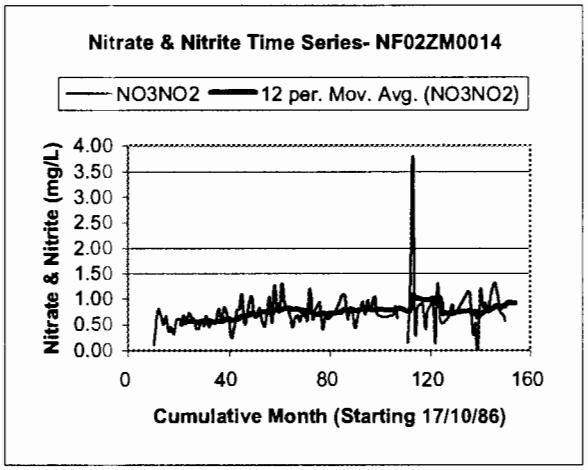

Chloride Time Series- NF02ZM0014
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
1200.00
1000.00
800.00
600.00
400.00
200.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

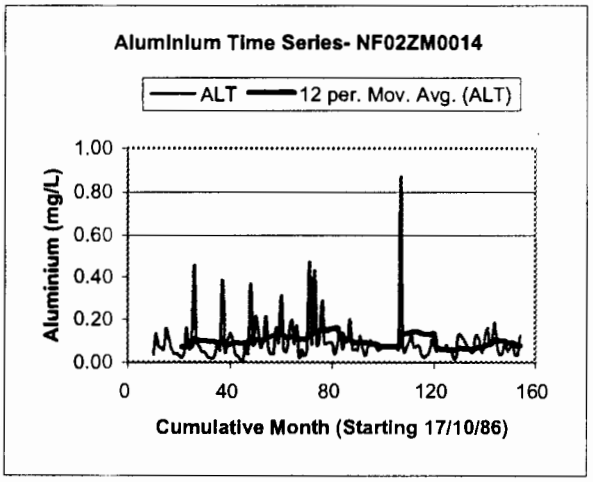

Dissolved Organic Carbon Time Series- NF02ZM0014
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

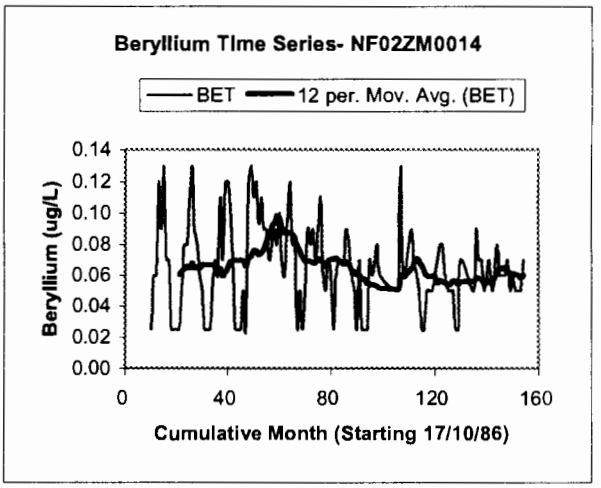

Nitrogen Time Series- NF02ZM0014
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

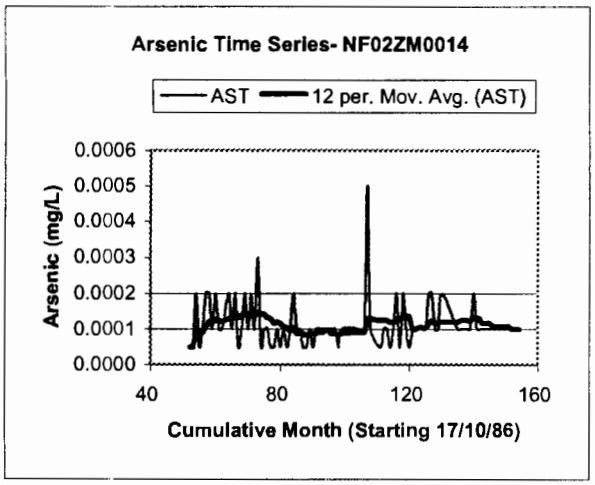

Phosphorous Time Series- NF02ZM0014
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

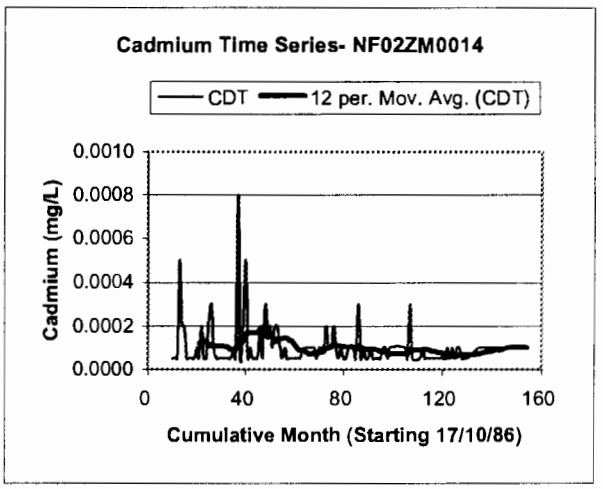

Silica Time Series- NF02ZM0014
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

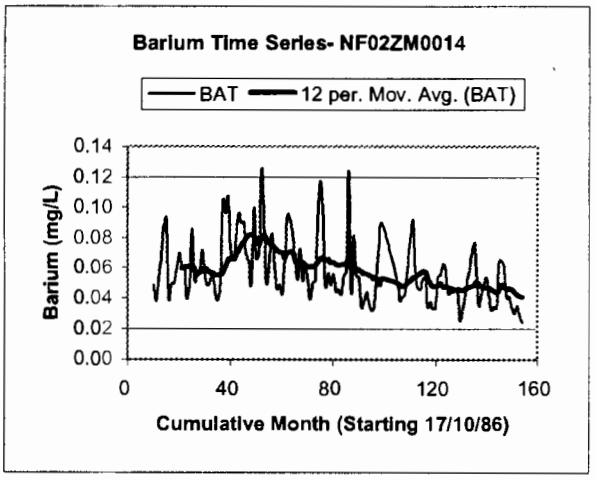

Nitrate & Nitrite Time Series- NF02ZM0014
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

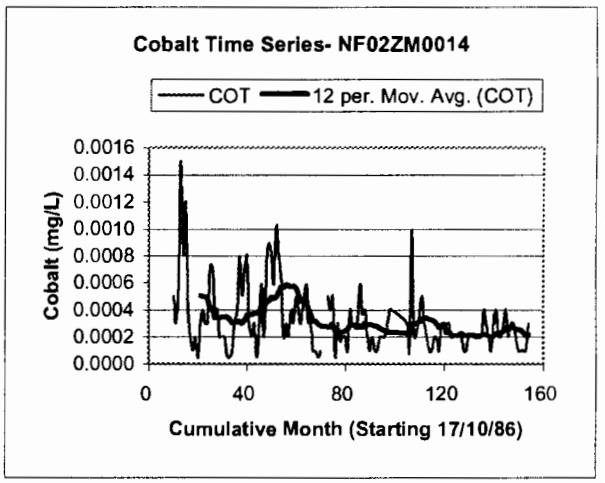

Aluminium Time Series- NF02ZM0014
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

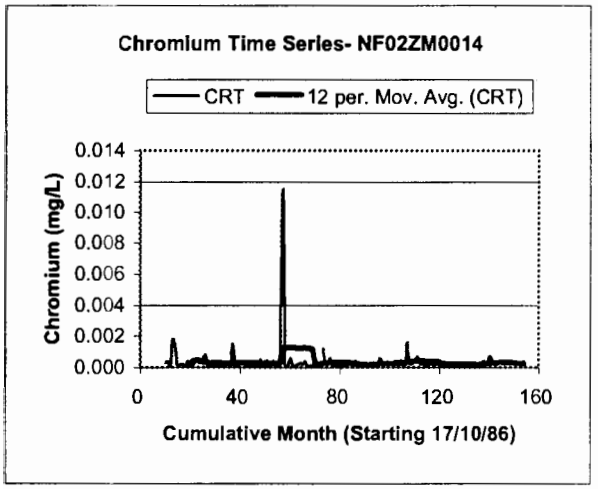

Beryllium Time Series- NF02ZM0014
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

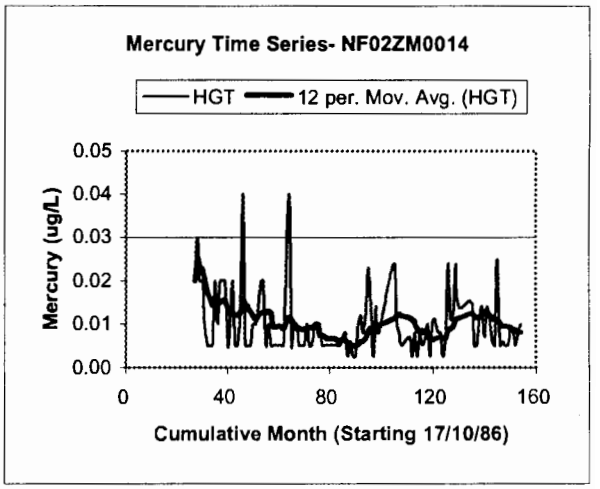

Arsenic Time Series- NF02ZM0014
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 17/10/86)

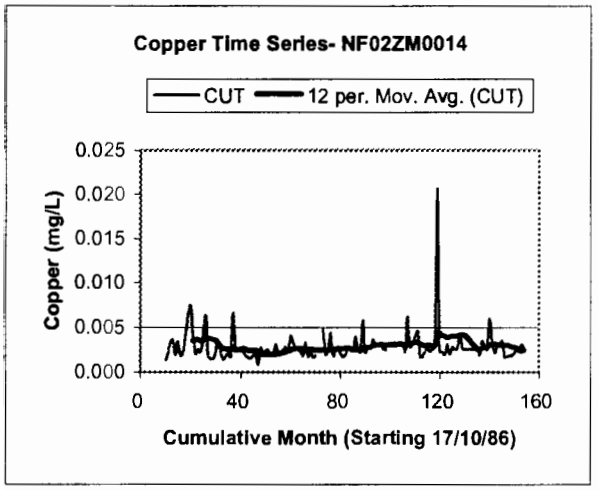

Cadmium Time Series- NF02ZM0014
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

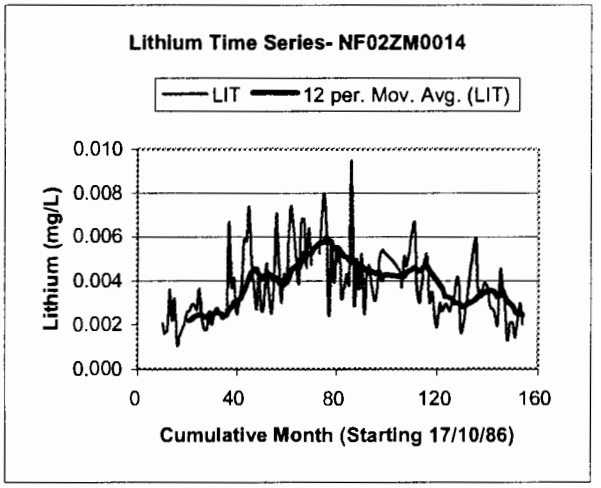

Barium Time Series- NF02ZM0014
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

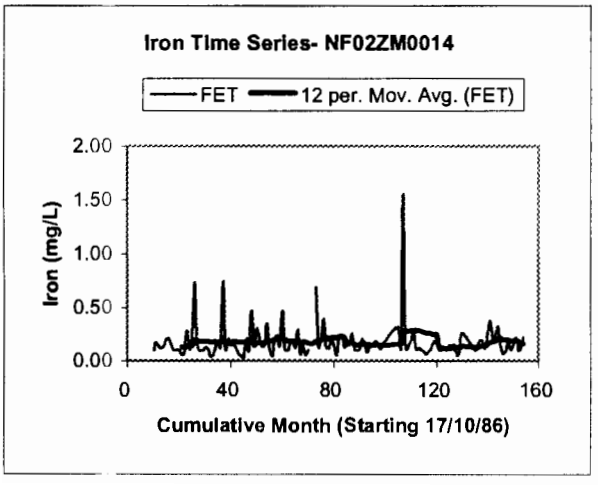

Cobalt Time Series- NF02ZM0014
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

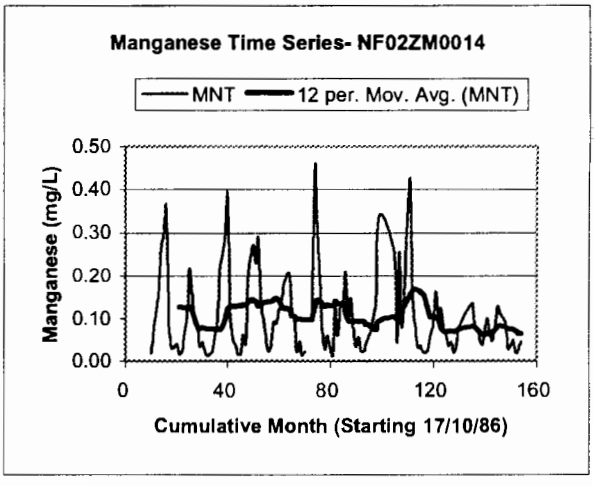

Chromium Time Series- NF02ZM0014
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

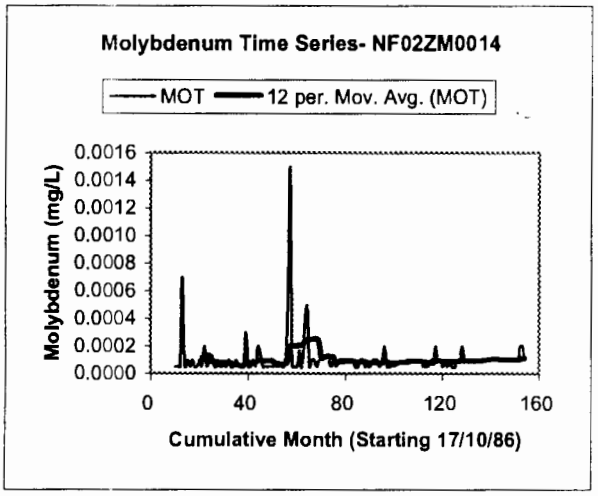

Mercury Time Series- NF02ZM0014
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

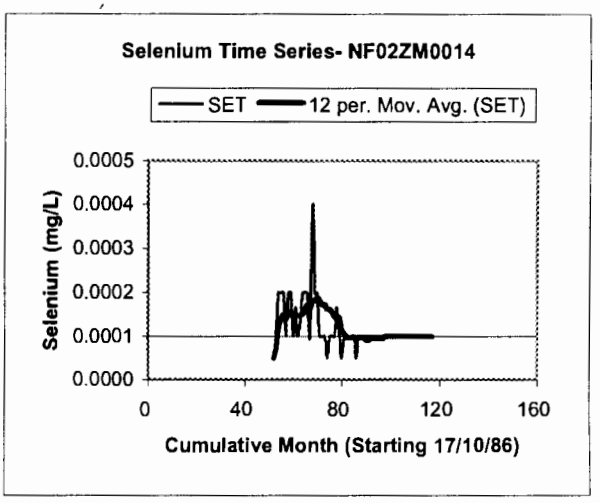

Copper Time Series- NF02ZM0014
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

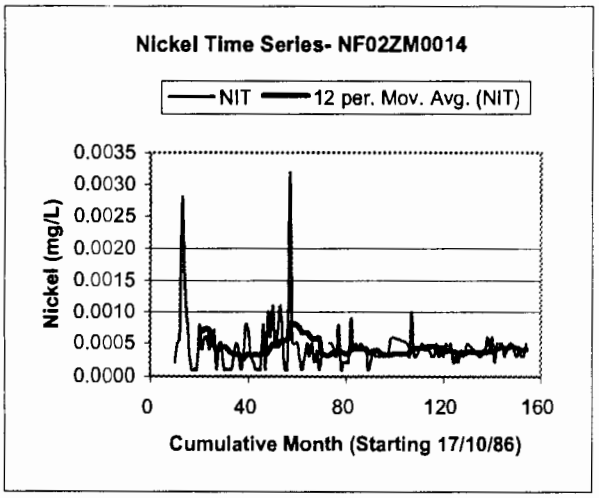

Lithium Time Series- NF02ZM0014
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

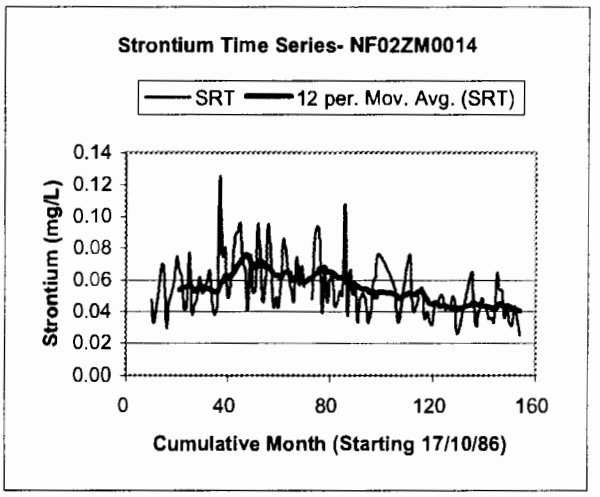

Iron Time Series- NF02ZM0014
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

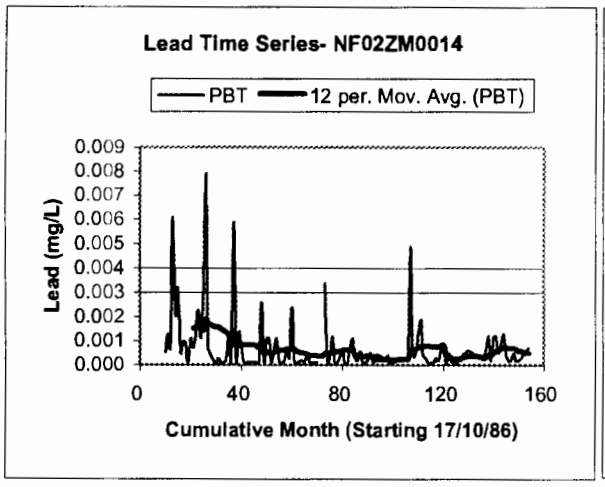

Manganese Time Series- NF02ZM0014
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

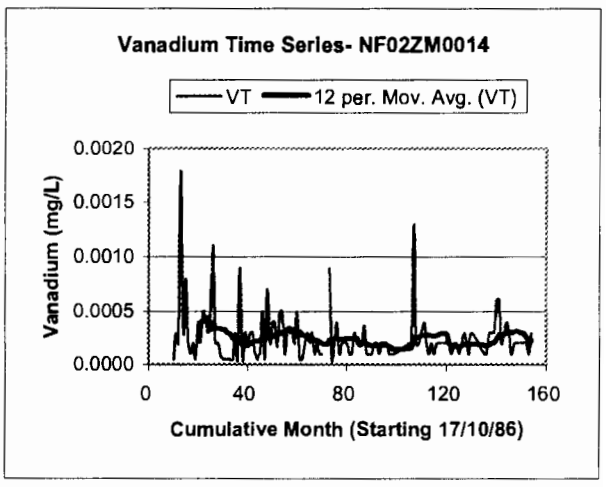

Molybdenum Time Series- NF02ZM0014
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

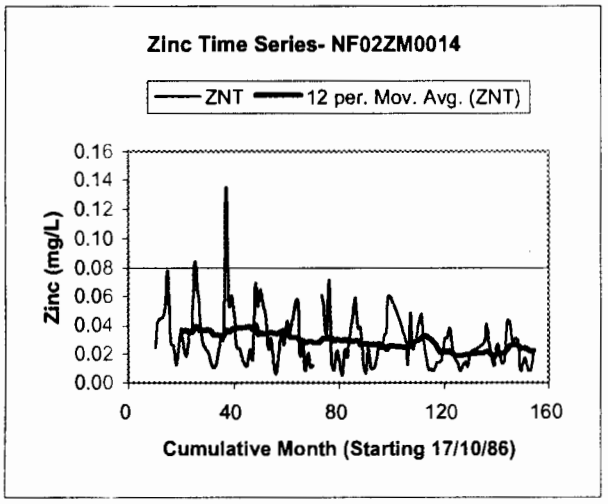

Selenium Time Series- NF02ZM0014
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)


Nickel Time Series- NF02ZM0014
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

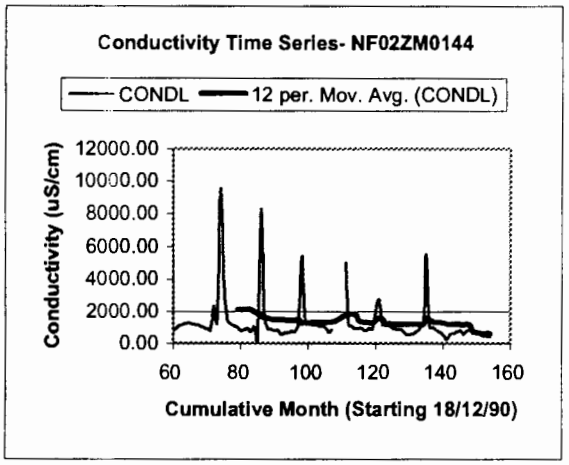

Strontium Time Series- NF02ZM0014
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

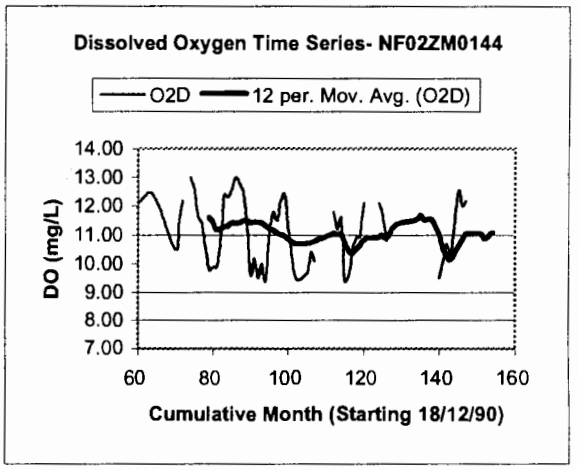

Lead Time Series- NF02ZM0014
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

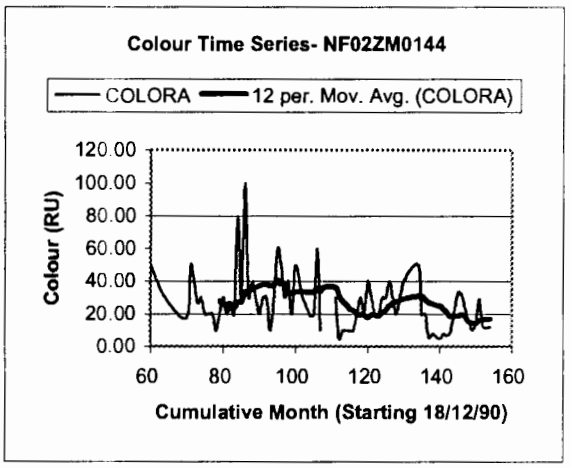

Vanadium Time Series- NF02ZM0014
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

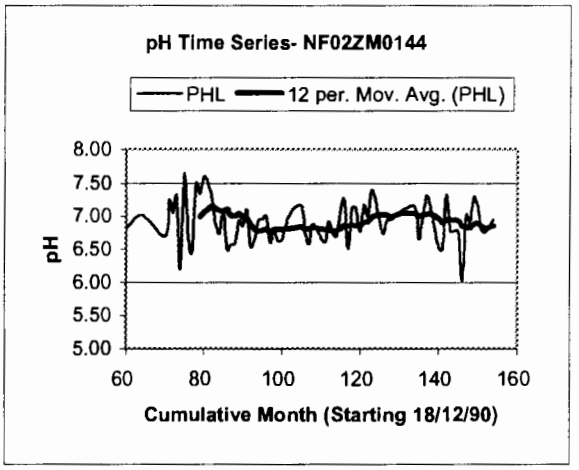

Zinc Time Series- NF02ZM0014
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

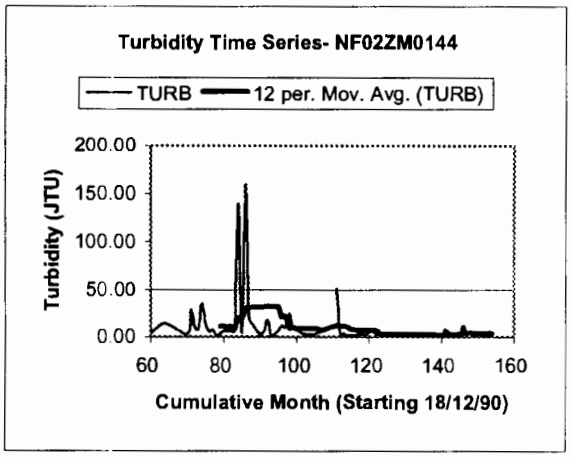
Time Series Plots of Kelly's Brook- NF02ZM0144

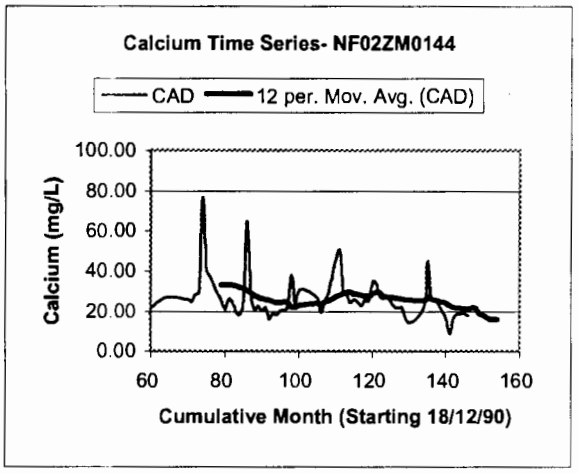


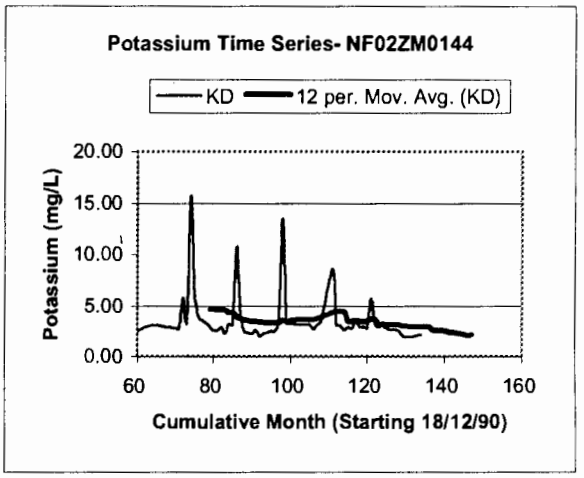


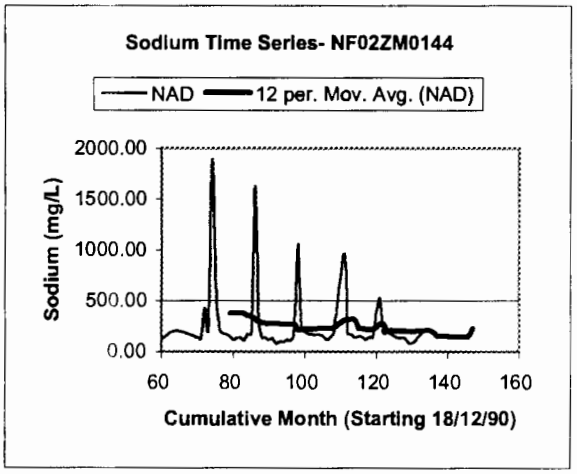


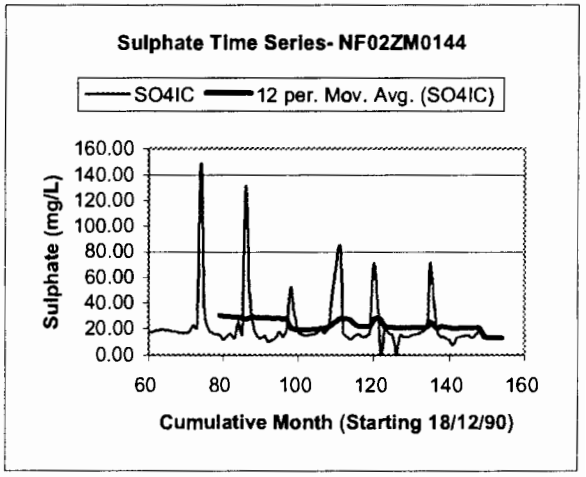


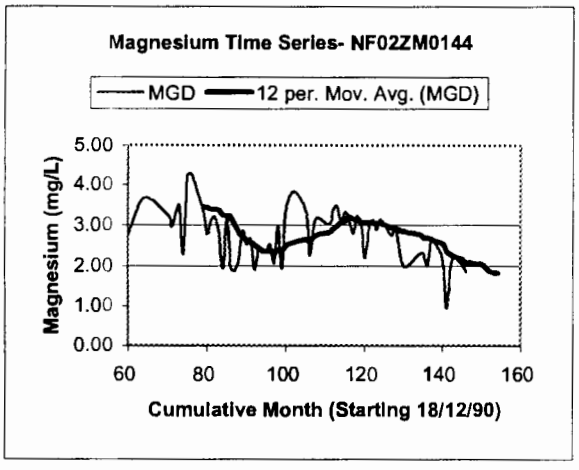


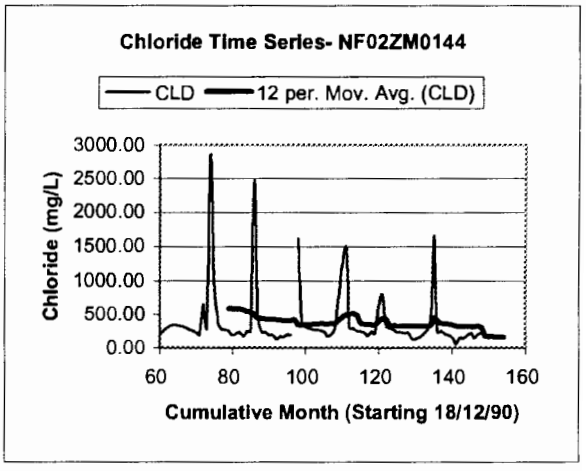

Calcium Time Series- NF02ZM0144
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
100.00
80.00
60.00
40.00
20.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

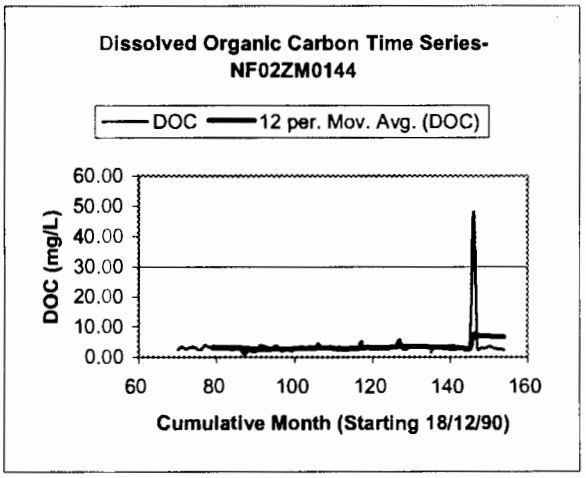

Potassium Time Series- NF02ZM0144
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
20.00
15.00
10.00
5.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

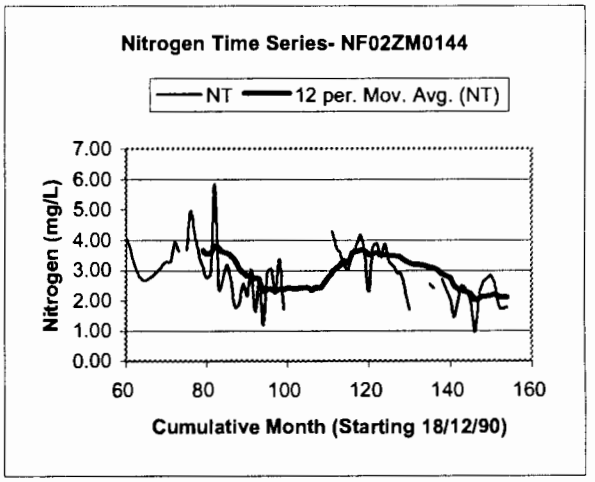

Sodium Time Series- NF02ZM0144
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
2000.00
1500.00
1000.00
500.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

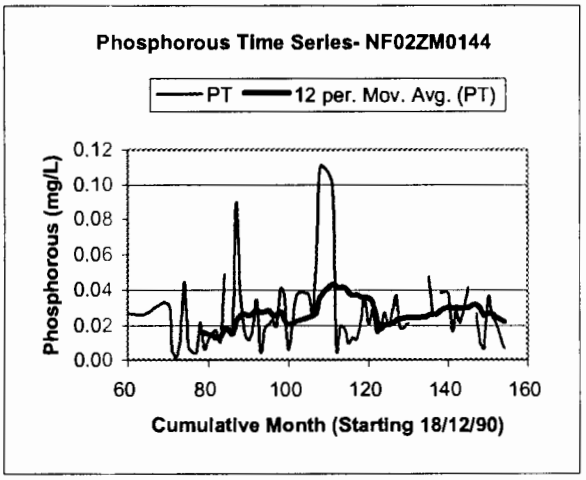

Sulphate Time Series- NF02ZM0144
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
160.00
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

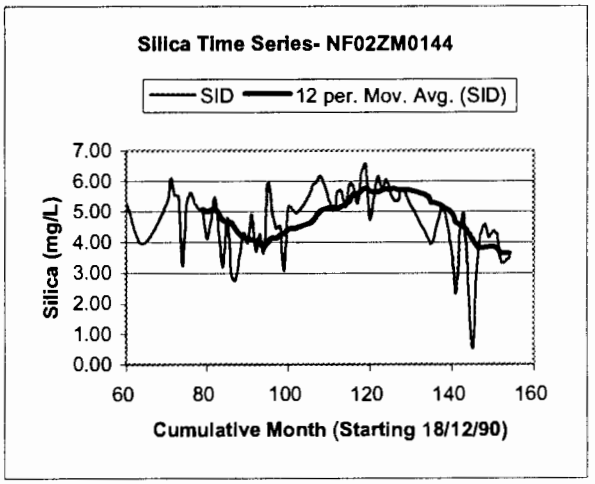

Magnesium Time Series- NF02ZM0144
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

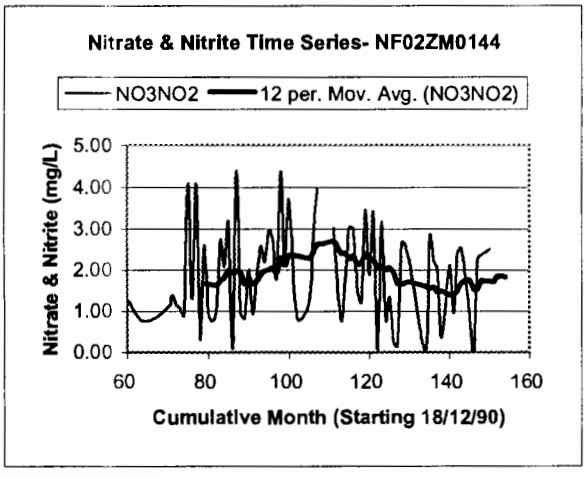

Chloride Time Series- NF02ZM0144
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

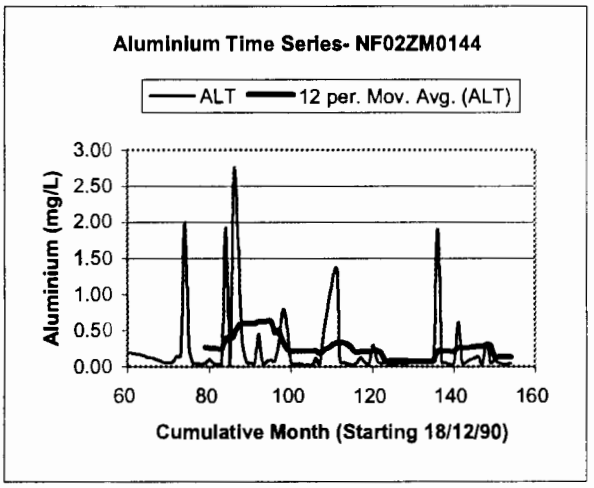

Dissolved Organic Carbon Time Series- NF02ZM0144
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

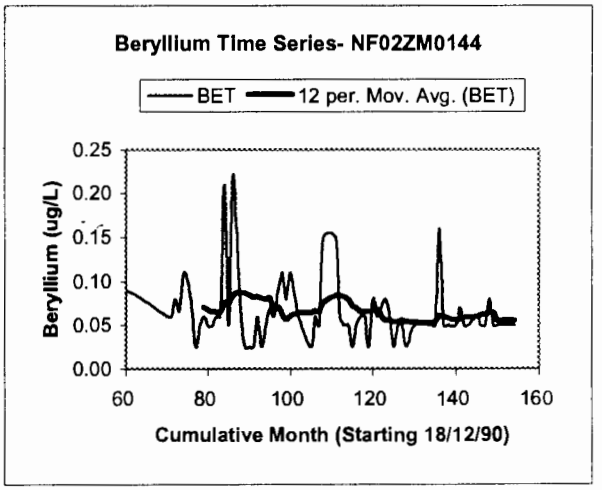

Nitrogen Time Series- NF02ZM0144
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

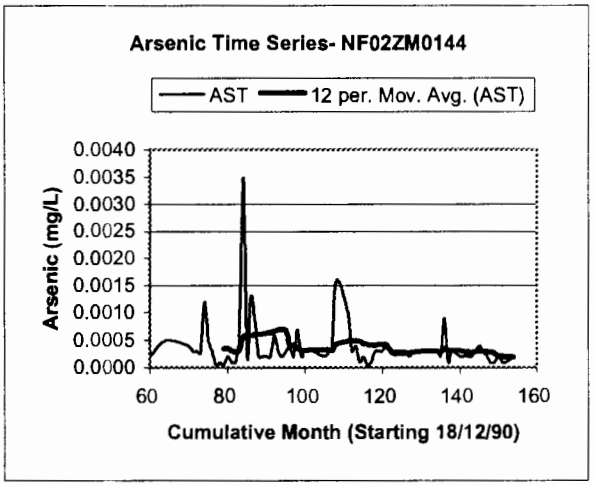

Phosphorous Time Series- NF02ZM0144
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

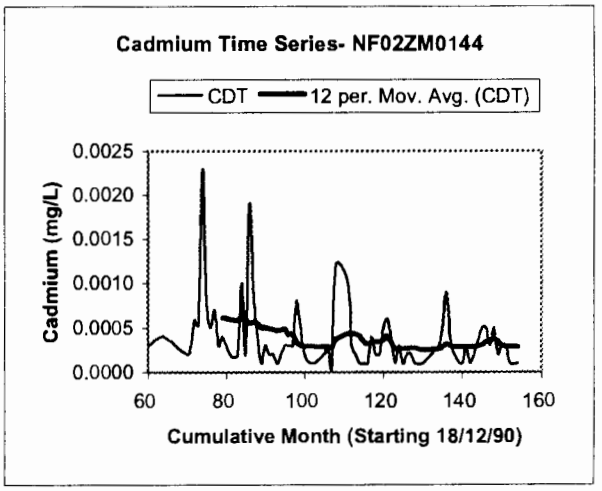

Silica Time Series- NF02ZM0144
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

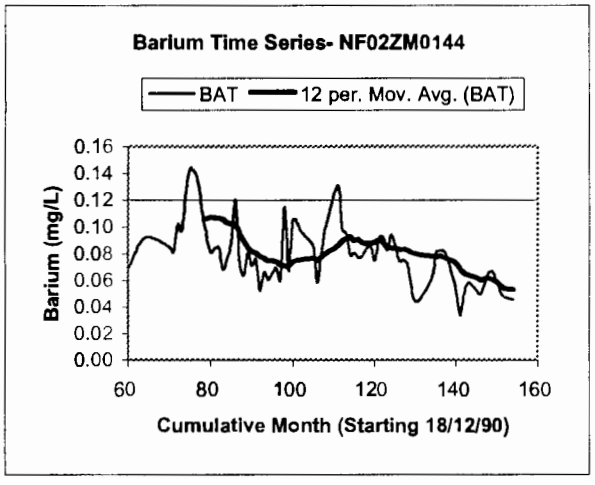

Nitrate & Nitrite Time Series- NF02ZM0144
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

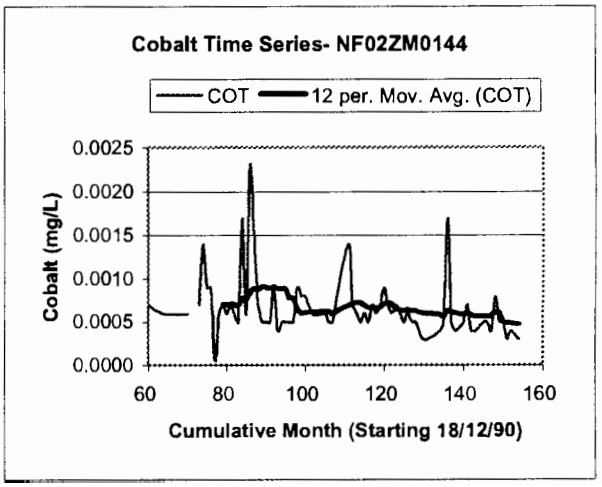

Aluminium Time Series- NF02ZM0144
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

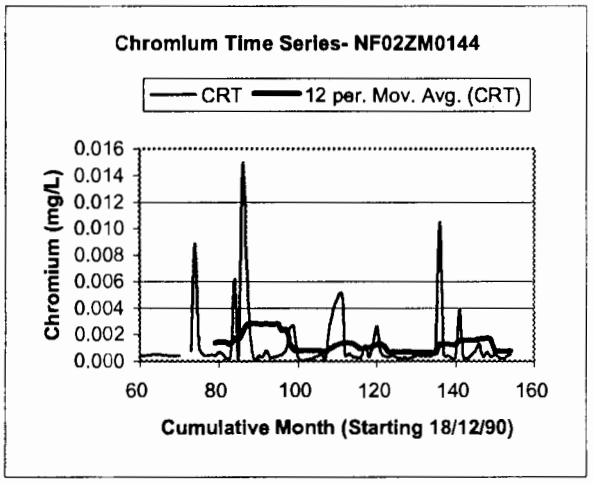

Beryllium Time Series- NF02ZM0144
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.25
0.20
0.15
0.10
0.05
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

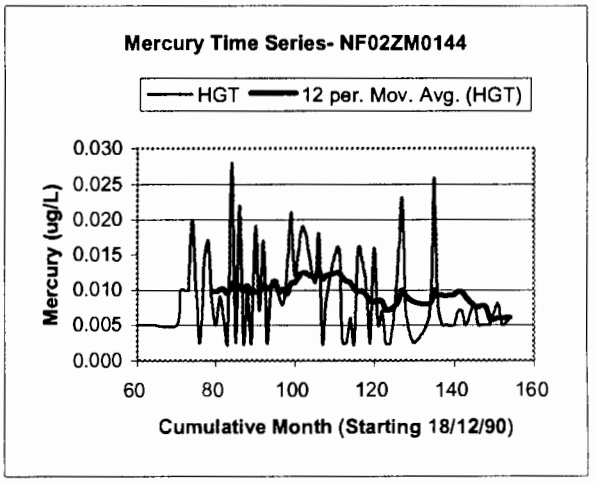

Arsenic Time Series- NF02ZM0144
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

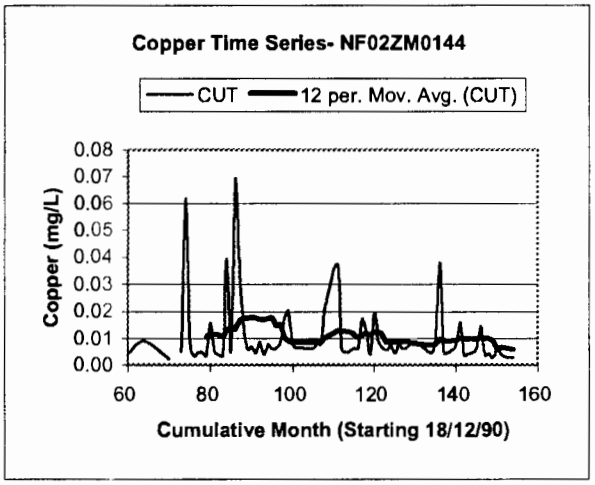

Cadmium Time Series- NF02ZM0144
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

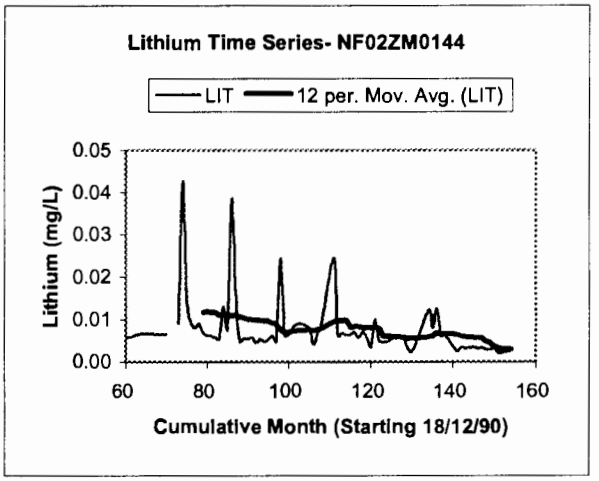

Barium Time Series- NF02ZM0144
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

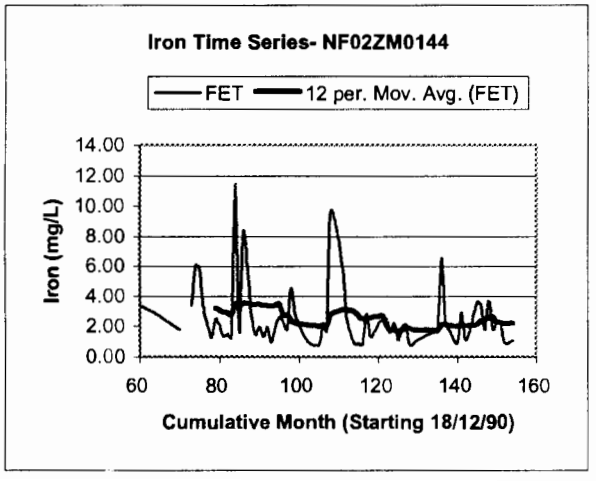

Cobalt Time Series- NF02ZM0144
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

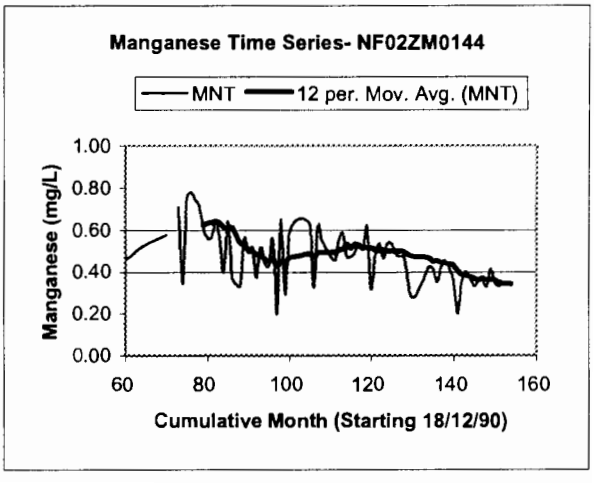

Chromium Time Series- NF02ZM0144
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

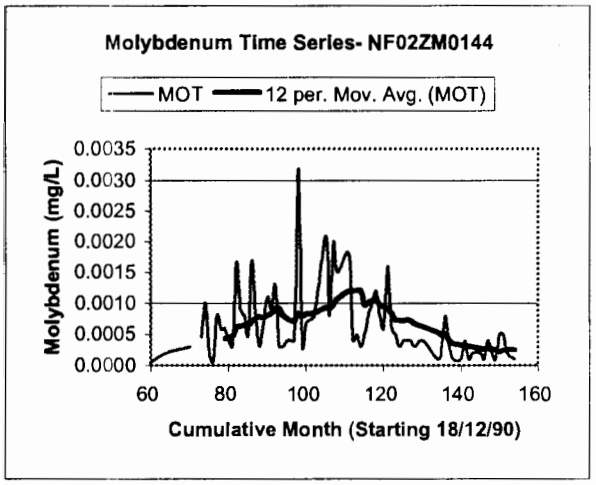

Mercury Time Series- NF02ZM0144
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

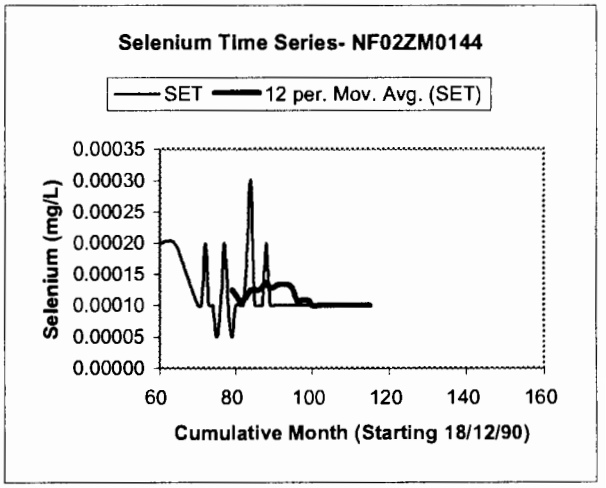

Copper Time Series- NF02ZM0144
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

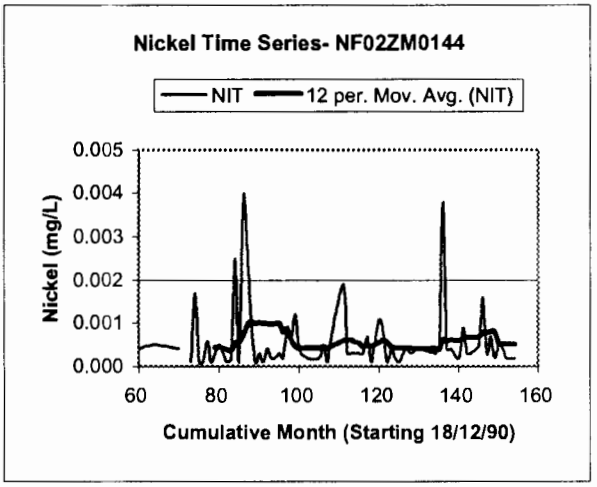

Lithium Time Series- NF02ZM0144
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

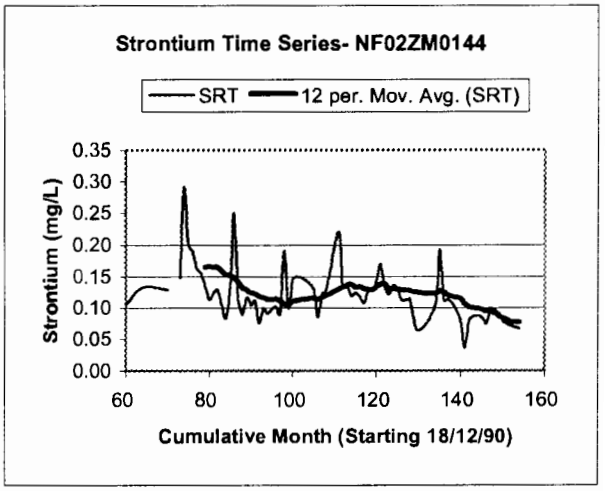

Iron Time Series- NF02ZM0144
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

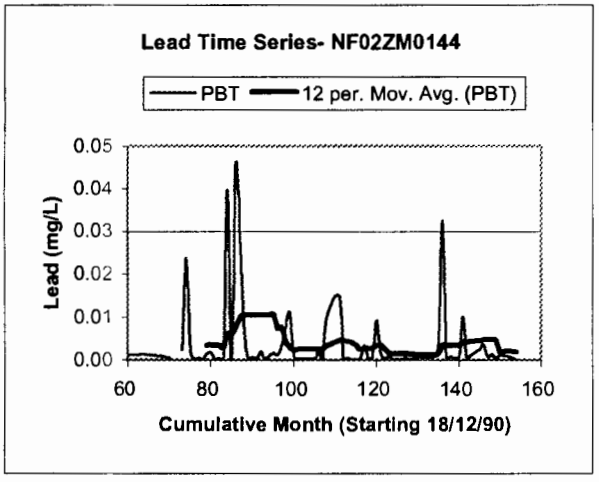

Manganese Time Series- NF02ZM0144
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

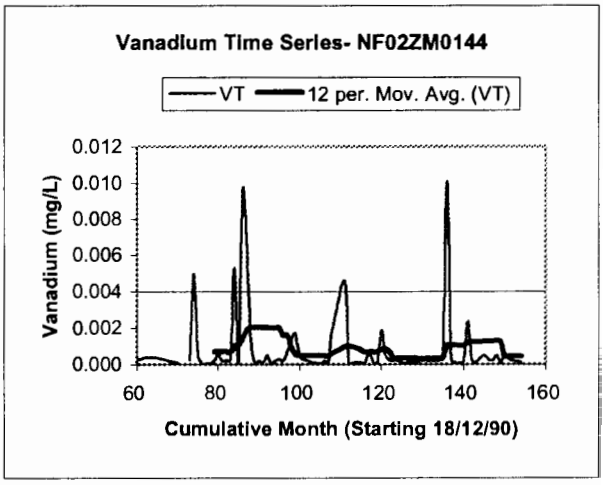

Molybdenum Time Series- NF02ZM0144
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

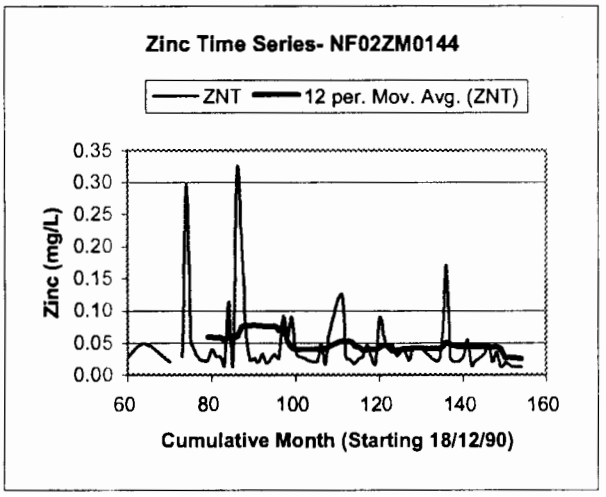

Selenium Time Series- NF02ZM0144
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)


Nickel Time Series- NF02ZM0144
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

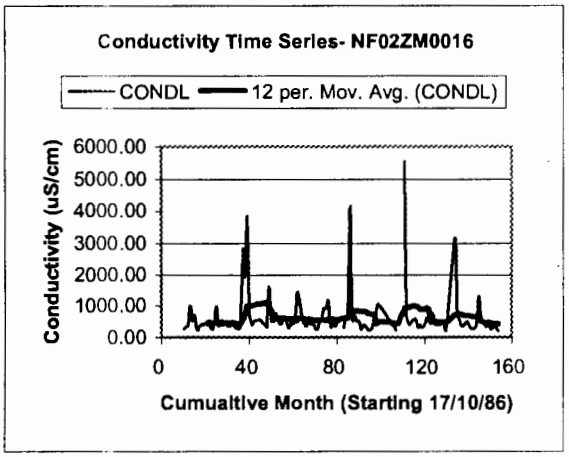

Strontium Time Series- NF02ZM0144
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

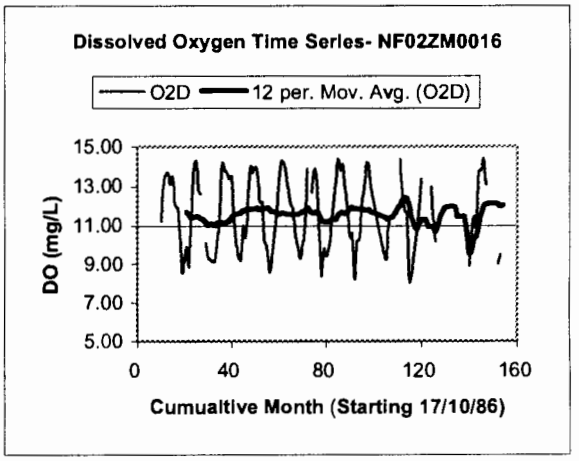

Lead Time Series- NF02ZM0144
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

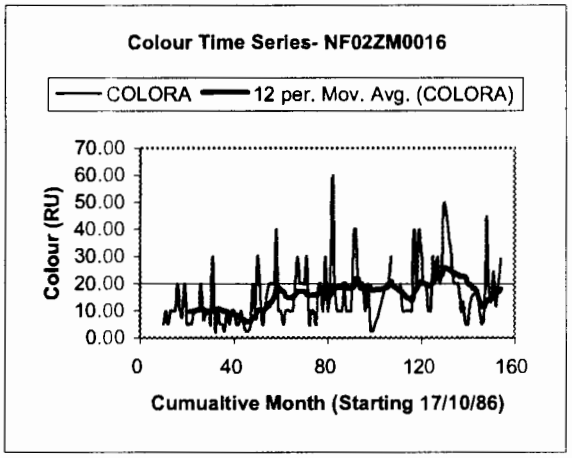

Vanadium Time Series- NF02ZM0144
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

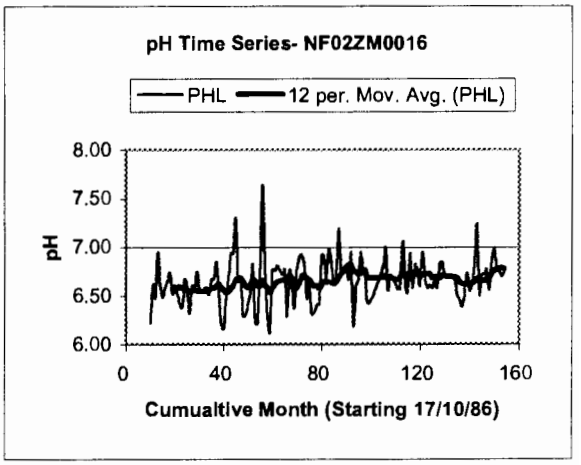

Zinc Time Series- NF02ZM0144
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
60
80
100
120
140
160
Cumulative Month (Starting 18/12/90)

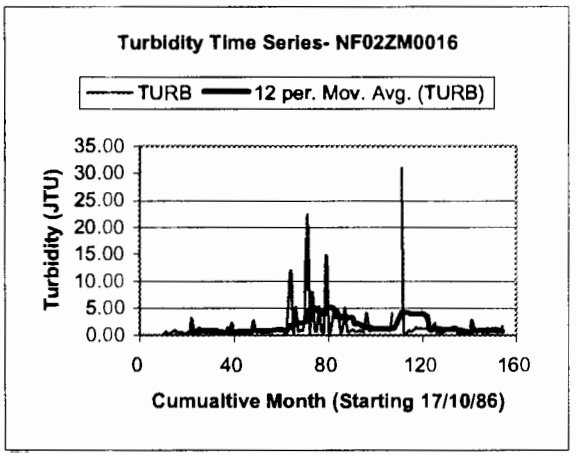
Time Series Plots of Rennies River (@ Carnell Dr)- NF02ZM0016

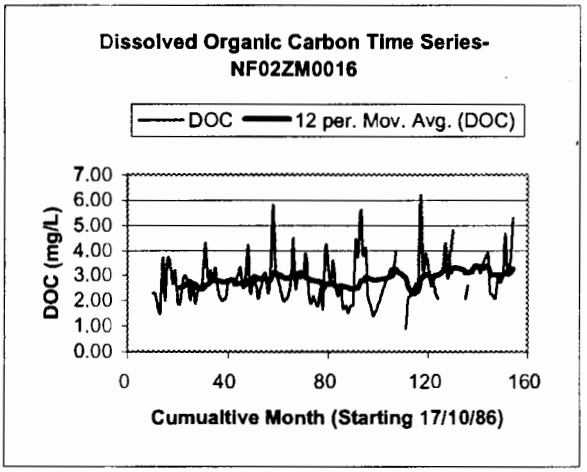


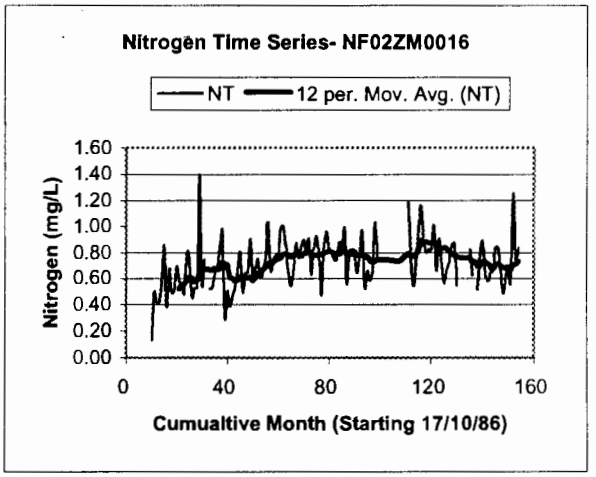


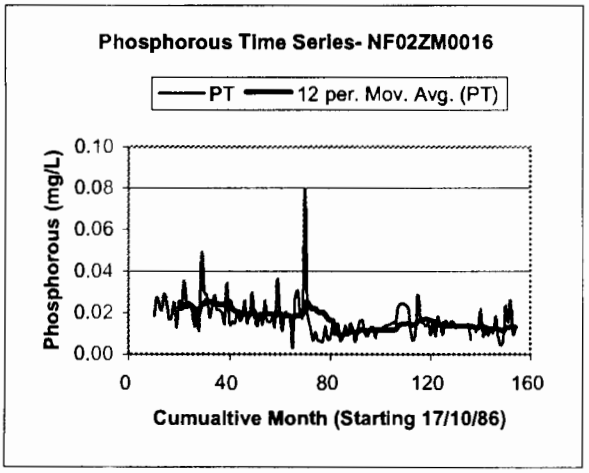


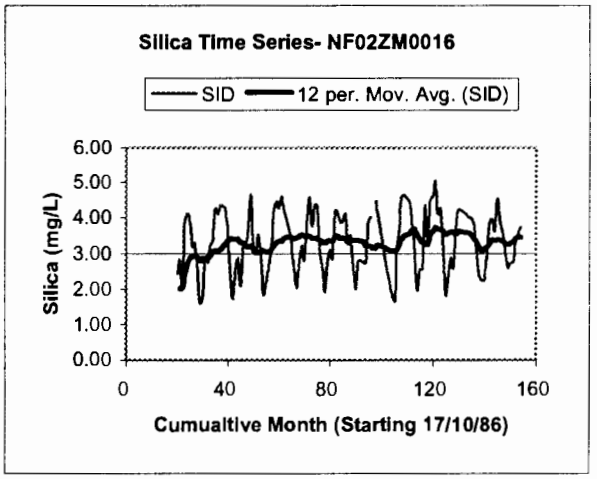


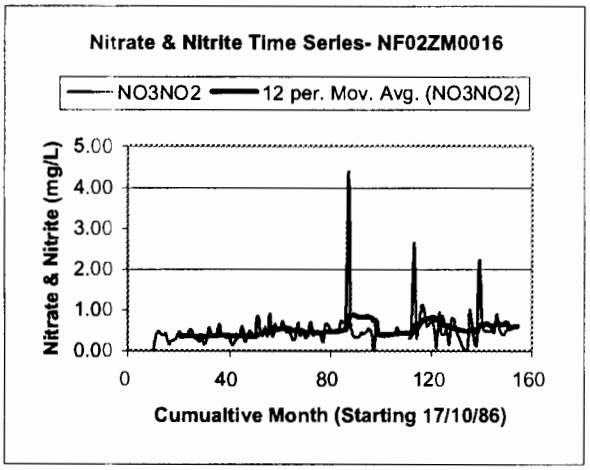


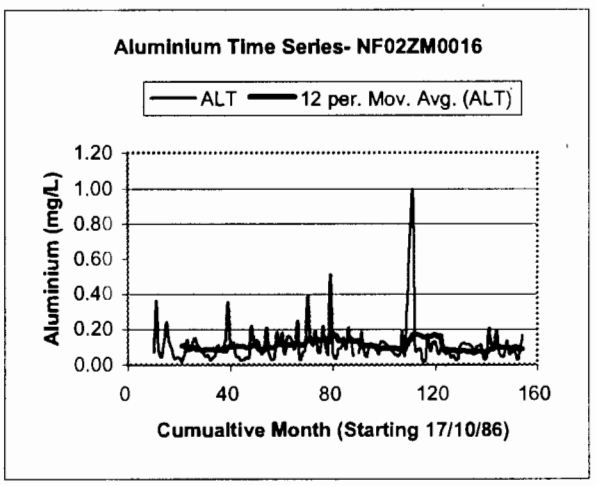

Dissolved Organic Carbon Time Series- NF02ZM0016
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

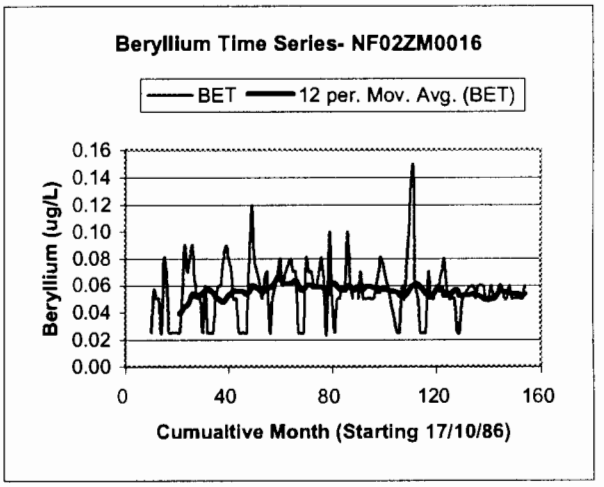

Nitrogen Time Series- NF02ZM0016
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

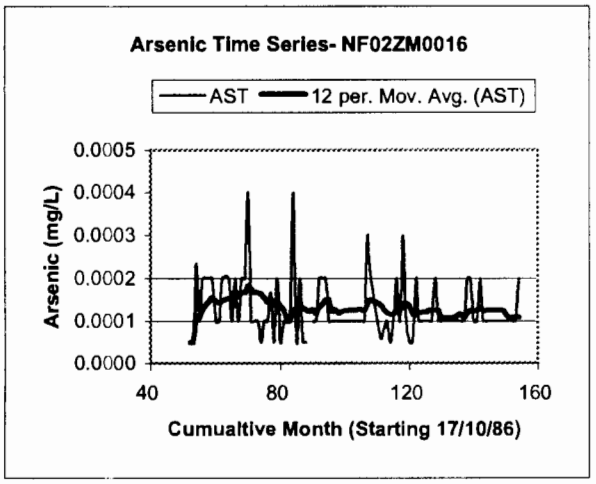

Phosphorous Time Series- NF02ZM0016
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

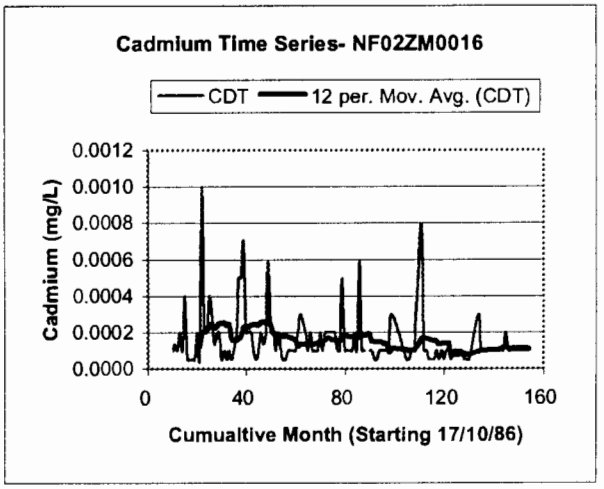

Silica Time Series- NF02ZM0016
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

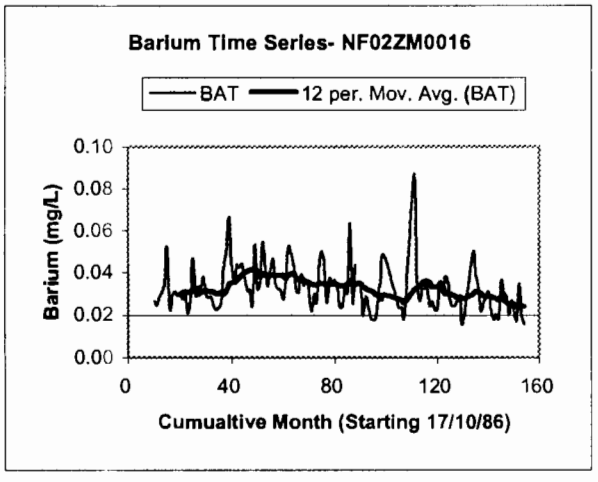

Nitrate & Nitrite Time Series- NF02ZM0016
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

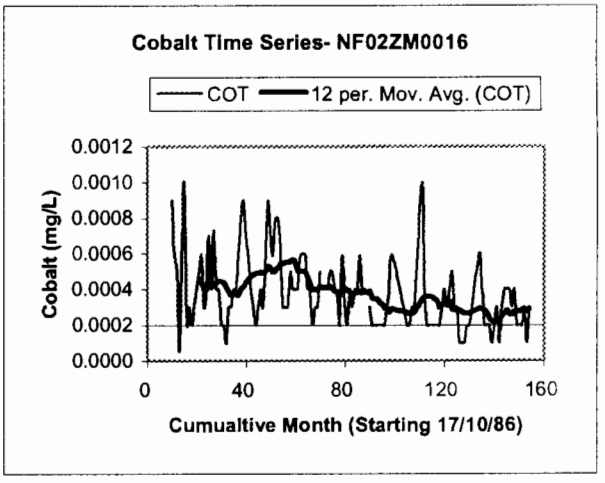

Aluminium Time Series- NF02ZM0016
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

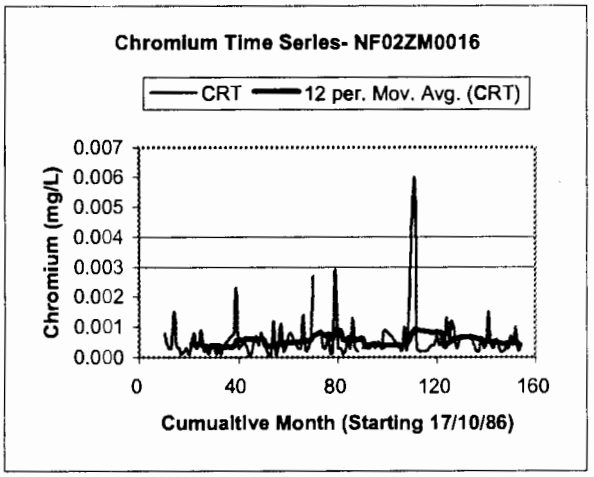

Beryllium Time Series- NF02ZM0016
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

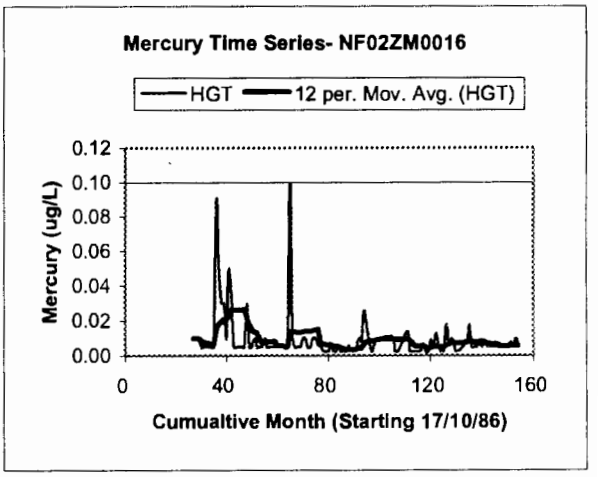

Arsenic Time Series- NF02ZM0016
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumualtive Month (Starting 17/10/86)

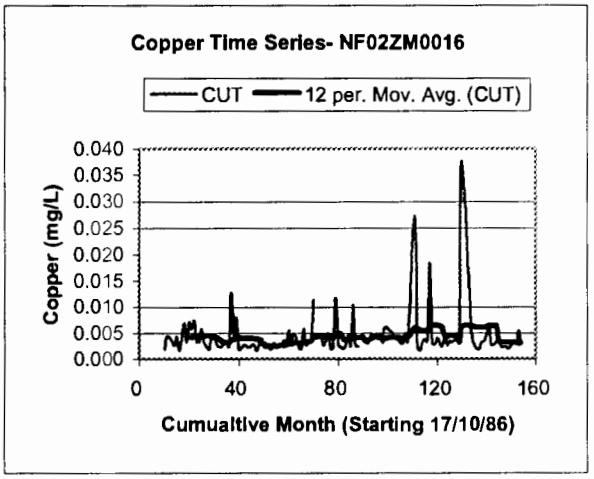

Cadmium Time Series- NF02ZM0016
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

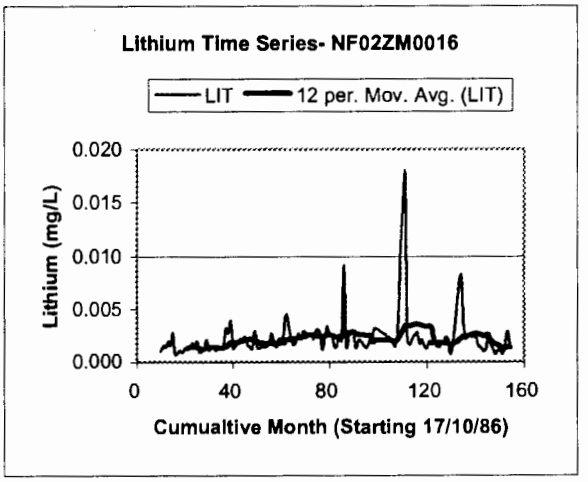

Barium Time Series- NF02ZM0016
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

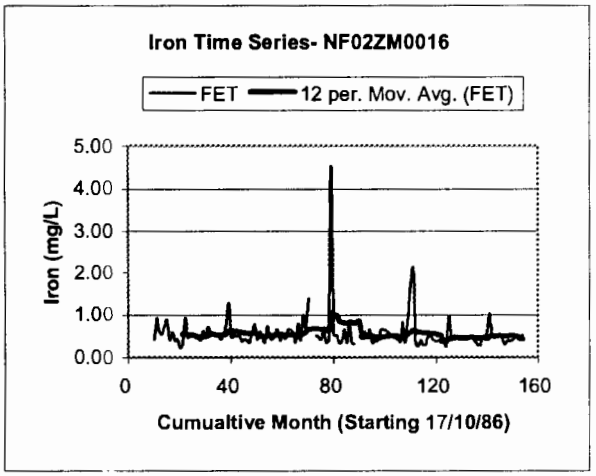

Cobalt Time Series- NF02ZM0016
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

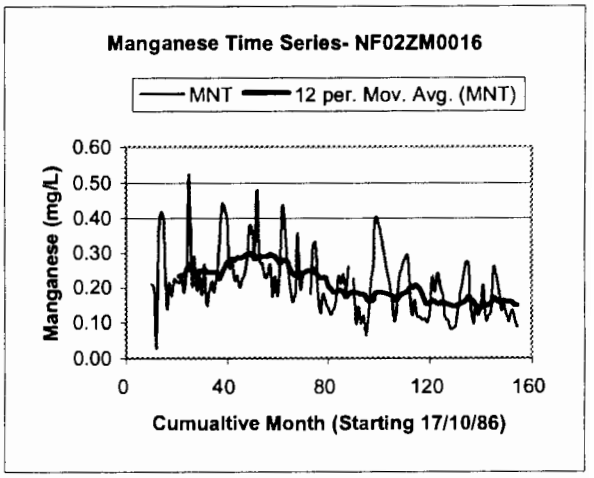

Chromium Time Series- NF02ZM0016
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

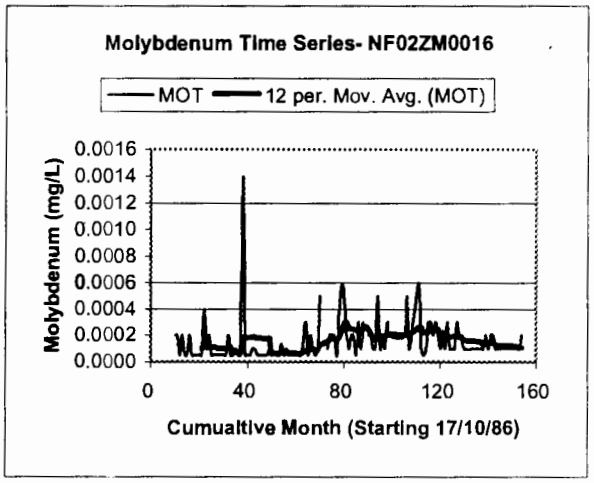

Mercury Time Series- NF02ZM0016
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

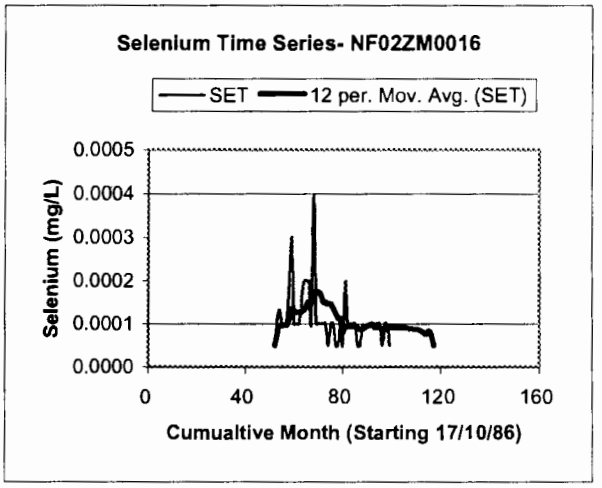

Copper Time Series- NF02ZM0016
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

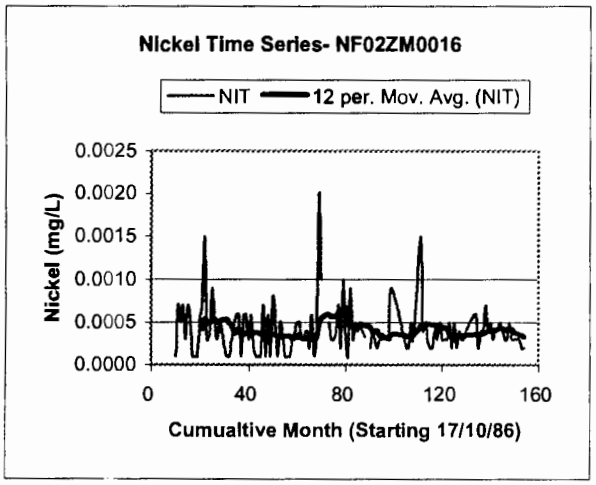

Lithium Time Series- NF02ZM0016
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

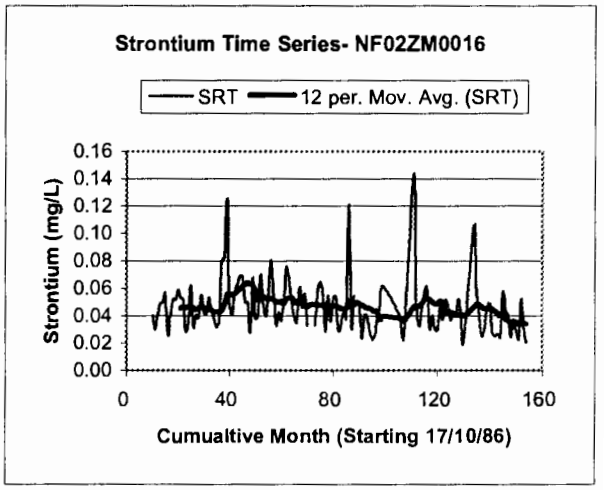

Iron Time Series- NF02ZM0016
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

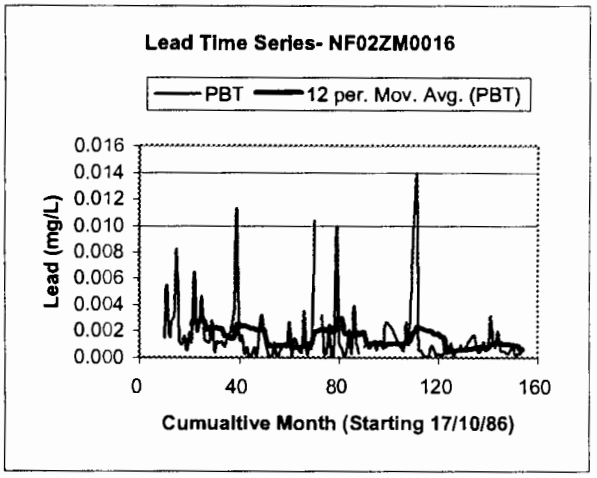

Manganese Time Series- NF02ZM0016
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

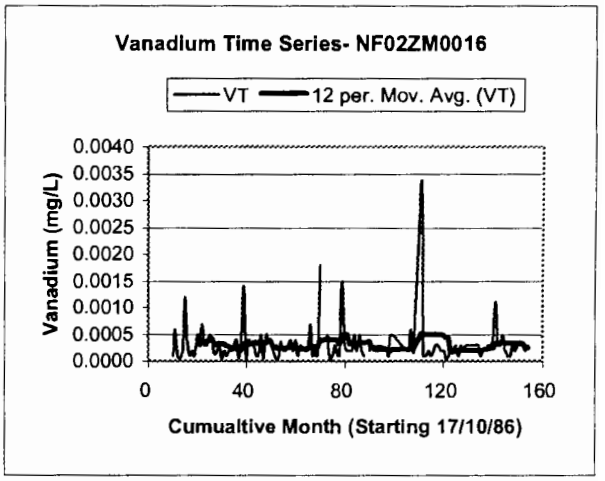

Molybdenum Time Series- NF02ZM0016
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

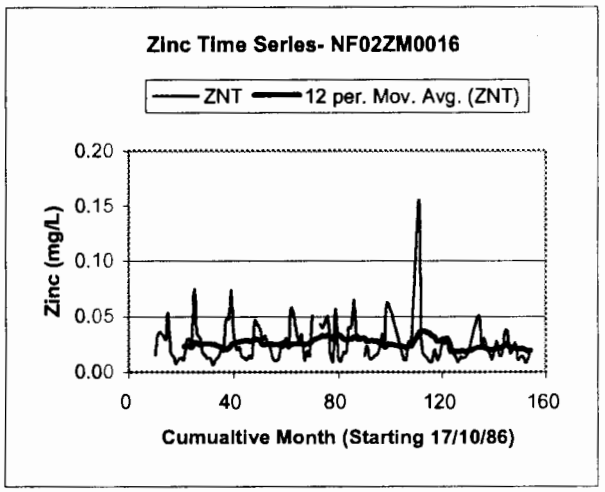

Selenium Time Series- NF02ZM0016
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)


Nickel Time Series- NF02ZM0016
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

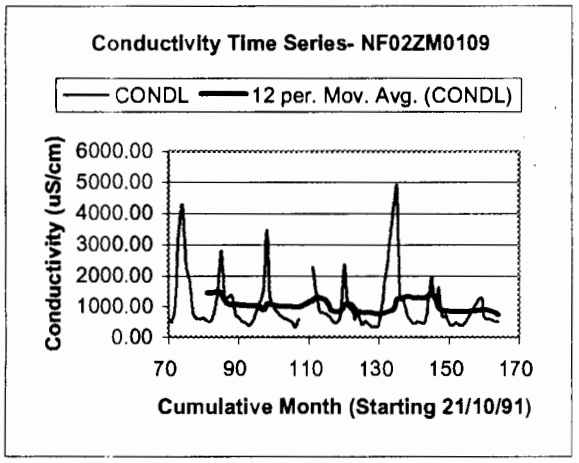

Strontium Time Series- NF02ZM0016
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

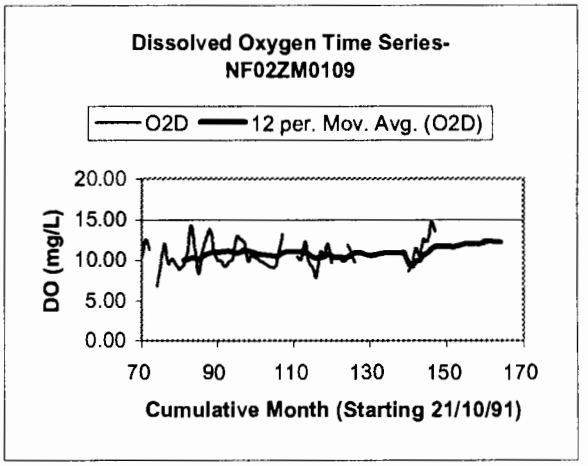

Lead Time Series- NF02ZM0016
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

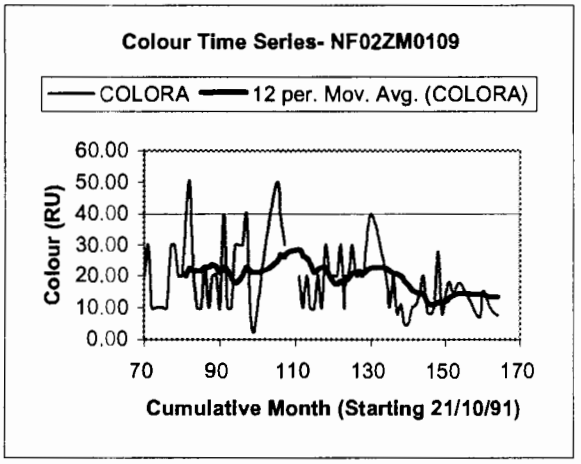

Vanadium Time Series- NF02ZM0016
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

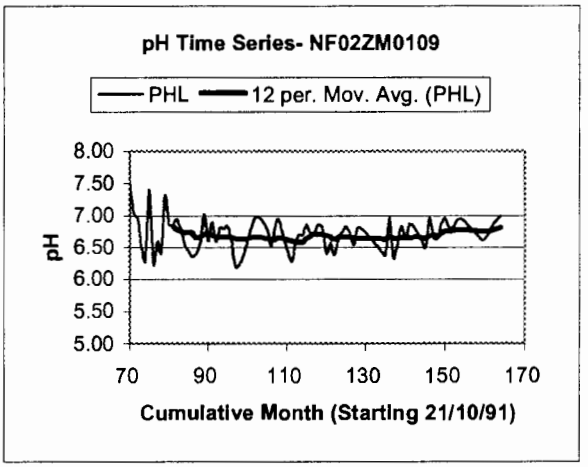

Zinc Time Series- NF02ZM0016
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumualtive Month (Starting 17/10/86)

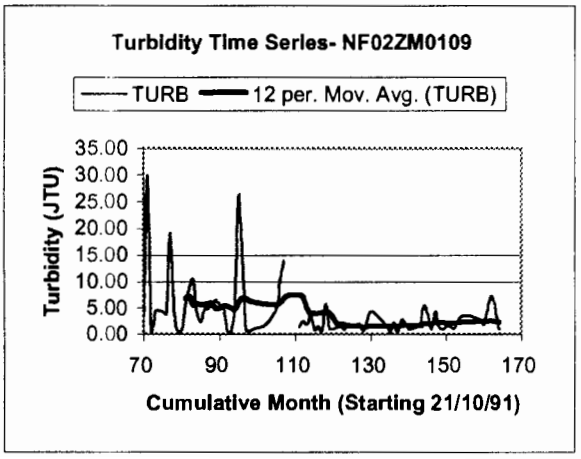
Time Series Plots of Mundy Pond- NF02ZM0109

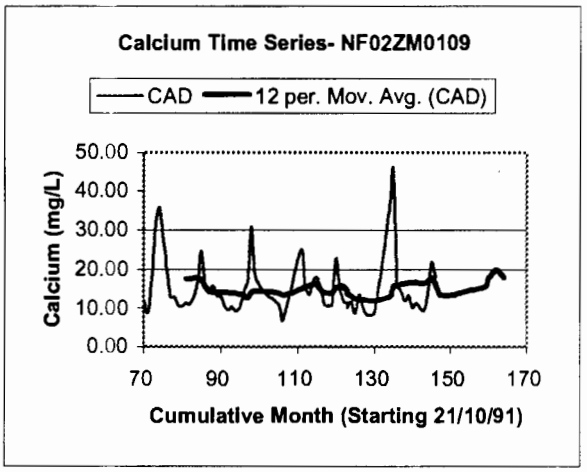


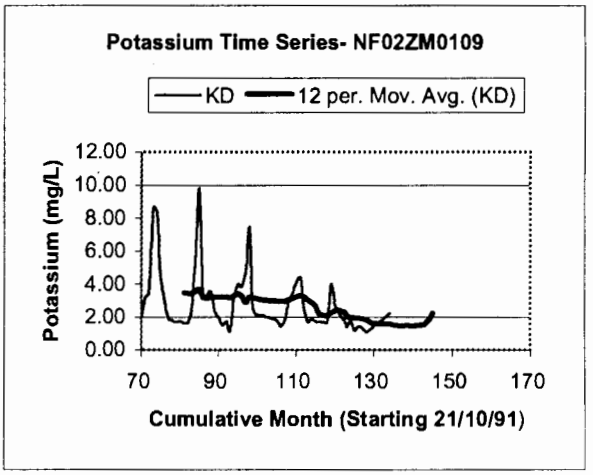


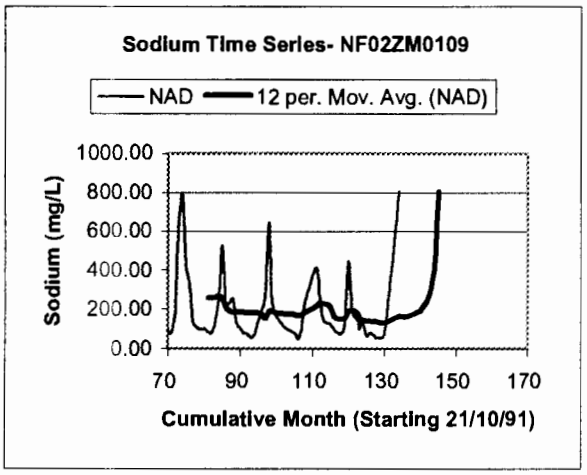


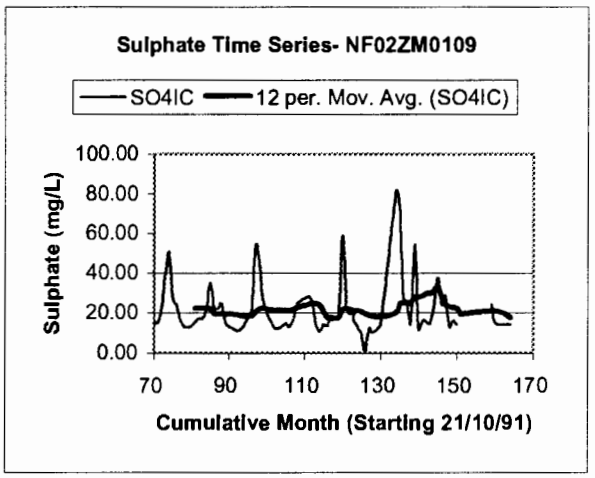


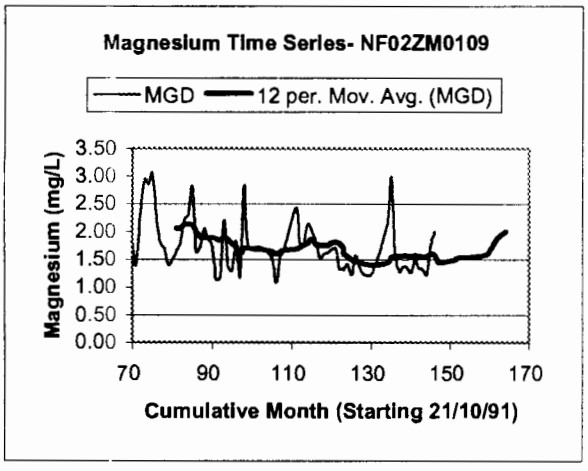


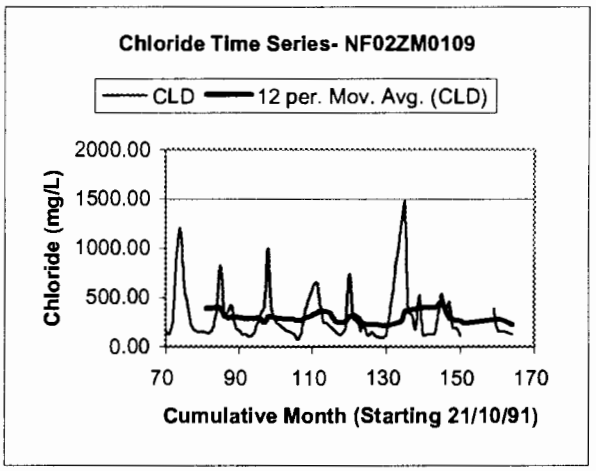

Calcium Time Series- NF02ZM0109
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
50.00
40.00
30.00
20.00
10.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

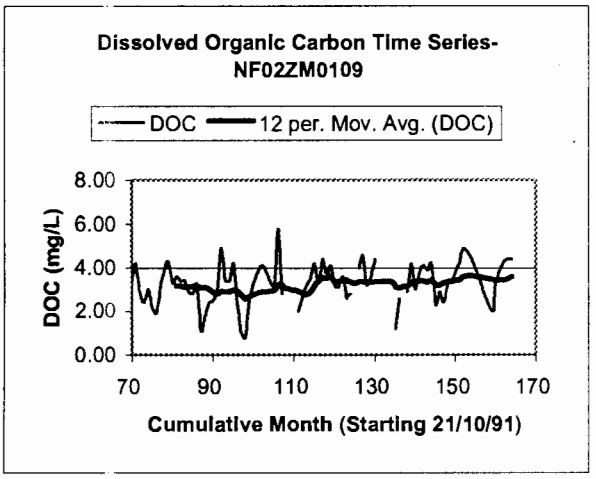

Potassium Time Series- NF02ZM0109
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

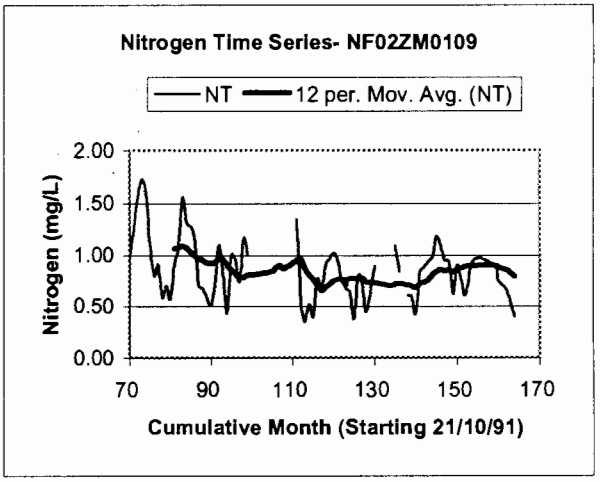

Sodium Time Series- NF02ZM0109
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
1000.00
800.00
600.00
400.00
200.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

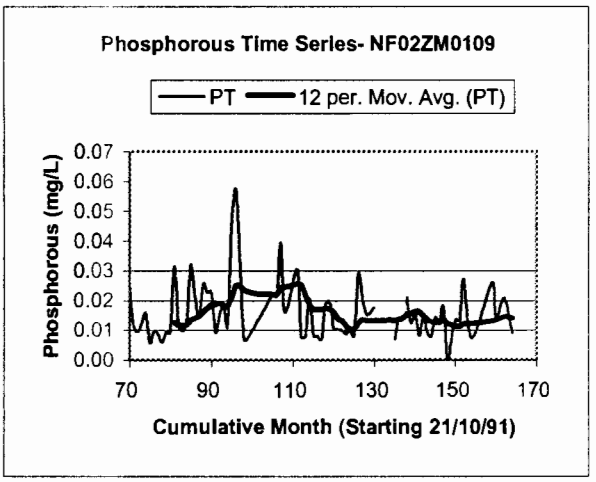

Sulphate Time Series- NF02ZM0109
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
100.00
80.00
60.00
40.00
20.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

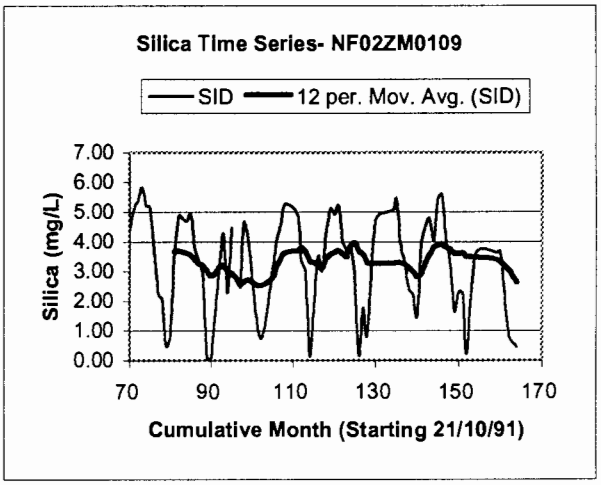

Magnesium Time Series- NF02ZM0109
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

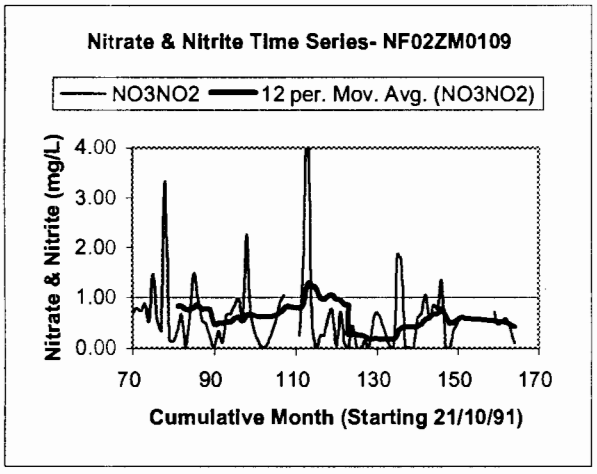

Chloride Time Series- NF02ZM0109
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
2000.00
1500.00
1000.00
500.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

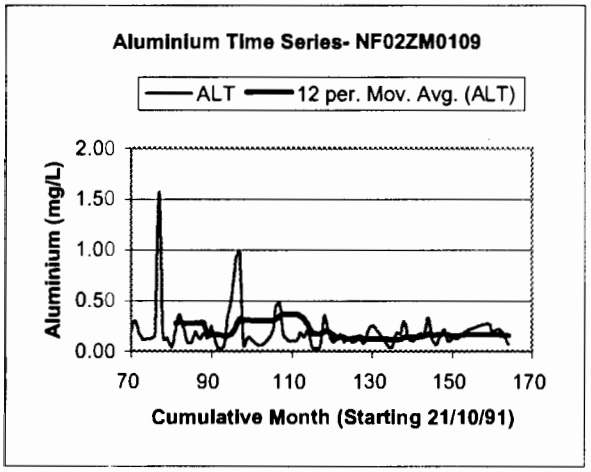

Dissolved Organic Carbon Time Series- NF02ZM0109
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
8.00
6.00
4.00
2.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

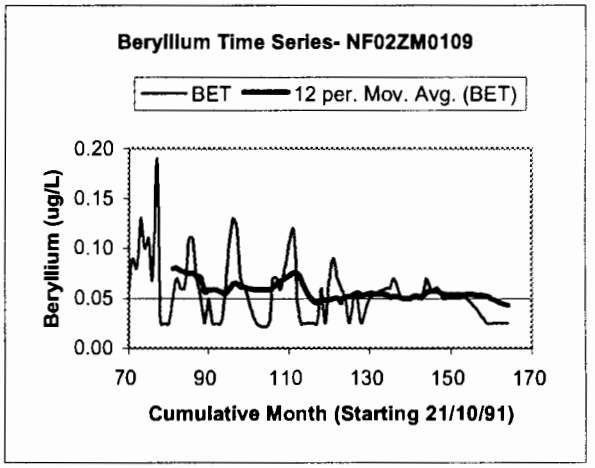

Nitrogen Time Series- NF02ZM0109
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
2.00
1.50
1.00
0.50
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

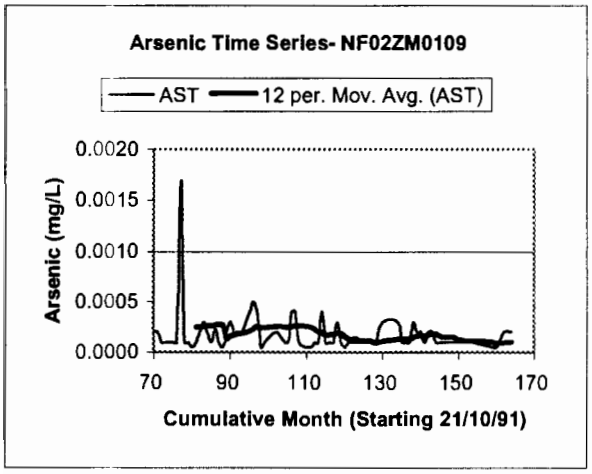

Phosphorous Time Series- NF02ZM0109
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

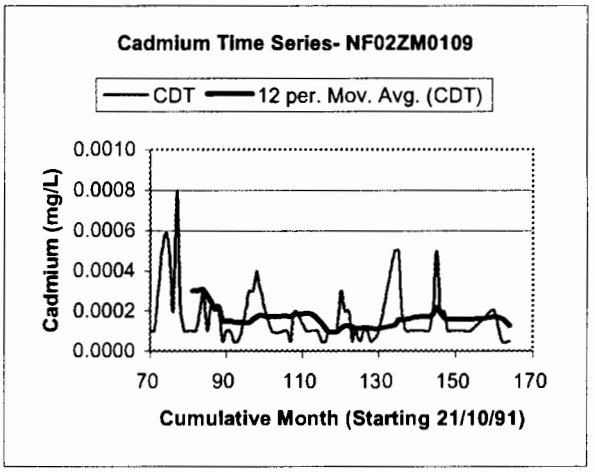

Silica Time Series- NF02ZM0109
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

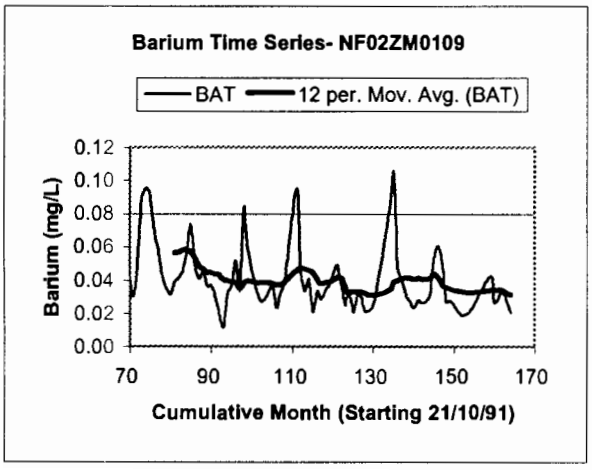

Nitrate & Nitrite Time Series- NF02ZM0109
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
4.00
3.00
2.00
1.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

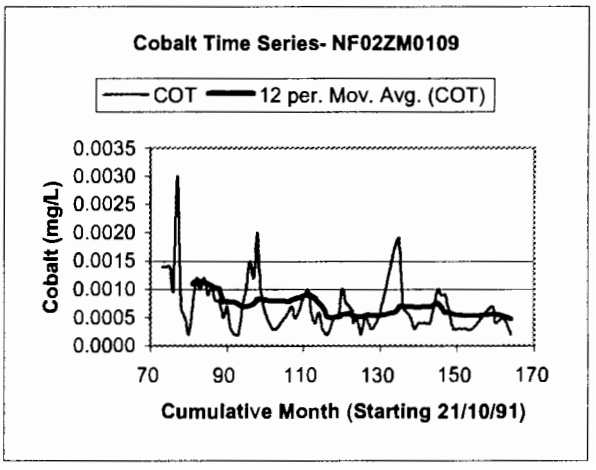

Aluminium Time Series- NF02ZM0109
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
2.00
1.50
1.00
0.50
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

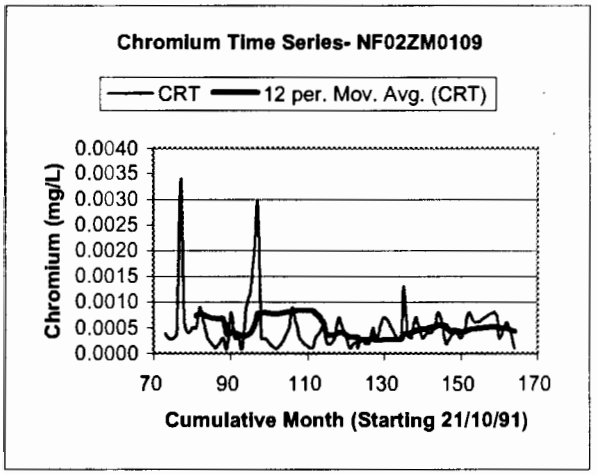

Beryllium Time Series- NF02ZM0109
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.20
0.15
0.10
0.05
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

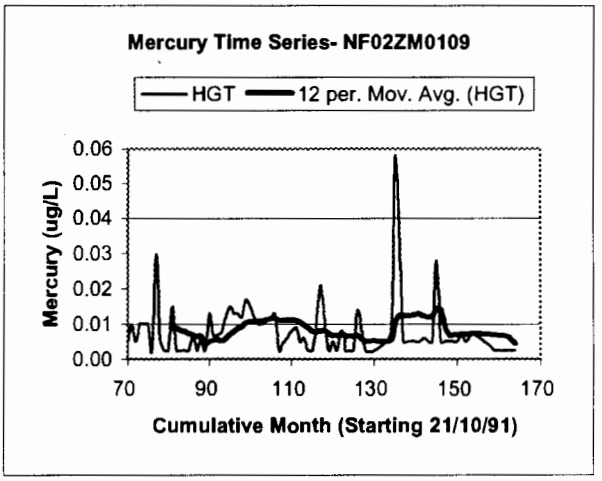

Arsenic Time Series- NF02ZM0109
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

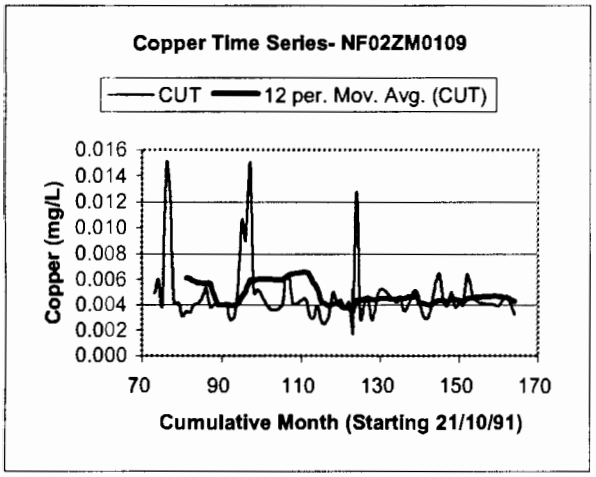

Cadmium Time Series- NF02ZM0109
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

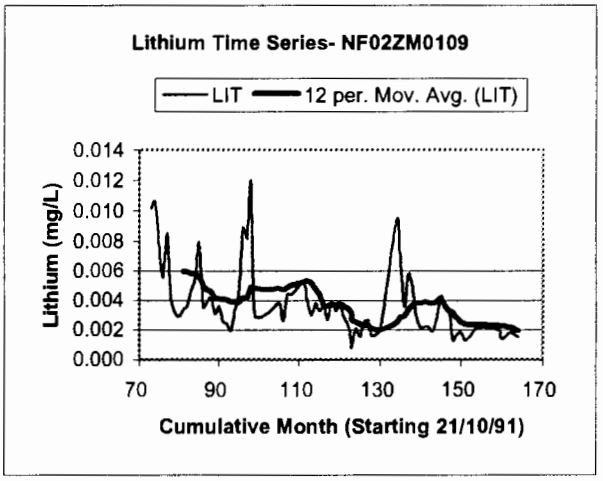

Barium Time Series- NF02ZM0109
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

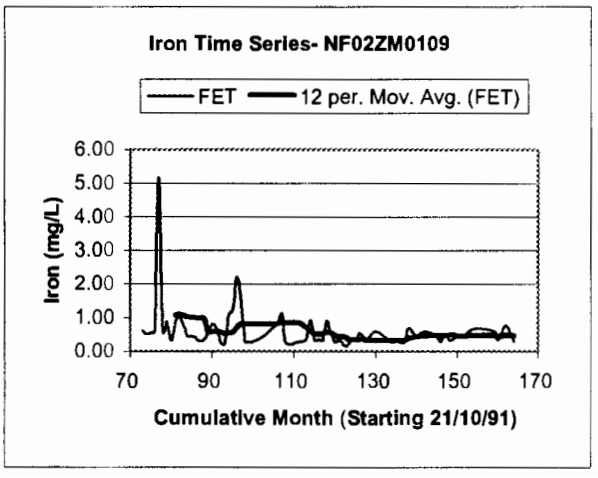

Cobalt Time Series- NF02ZM0109
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

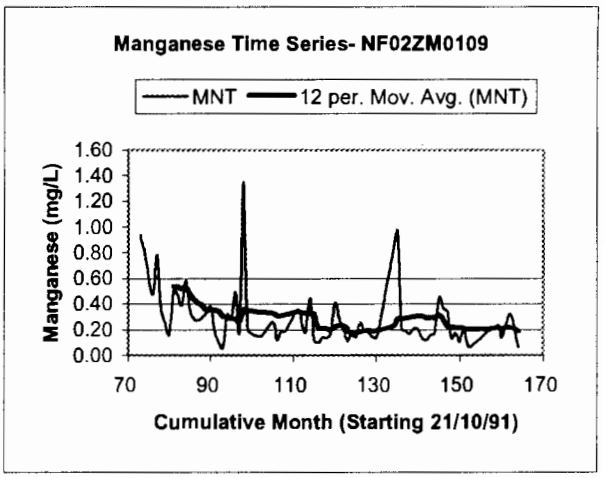

Chromium Time Series- NF02ZM0109
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

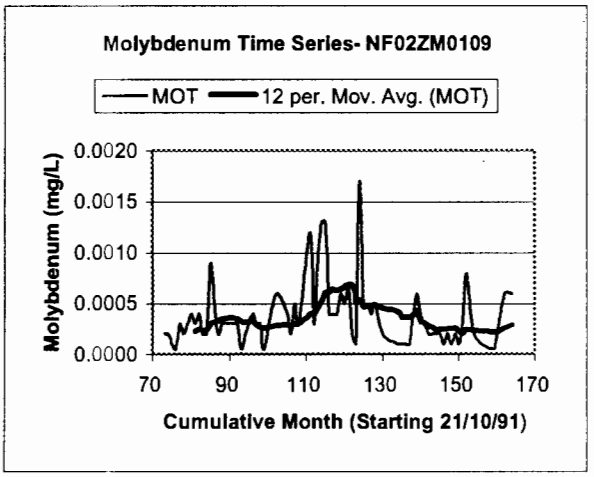

Mercury Time Series- NF02ZM0109
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

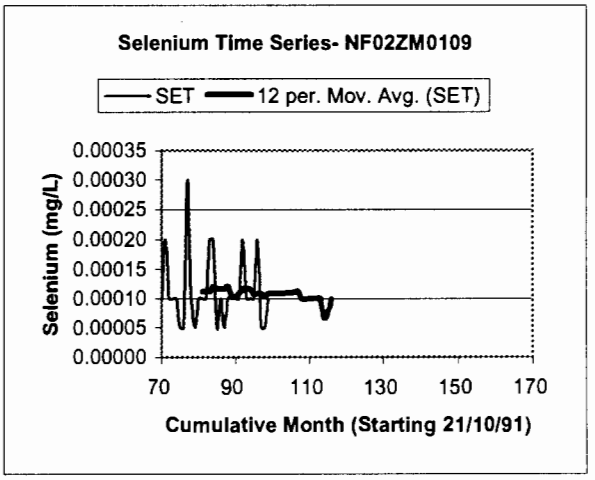

Copper Time Series- NF02ZM0109
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

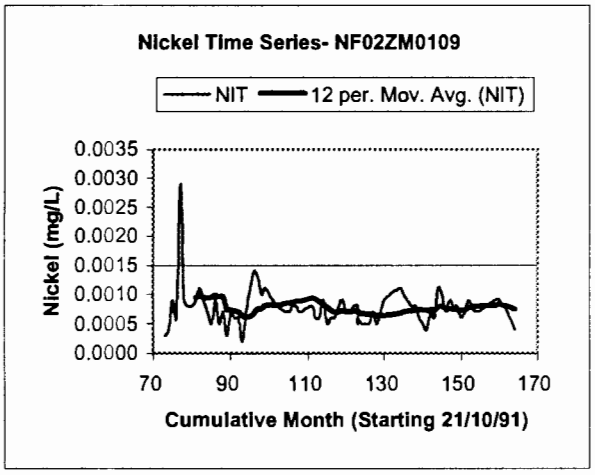

Lithium Time Series- NF02ZM0109
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

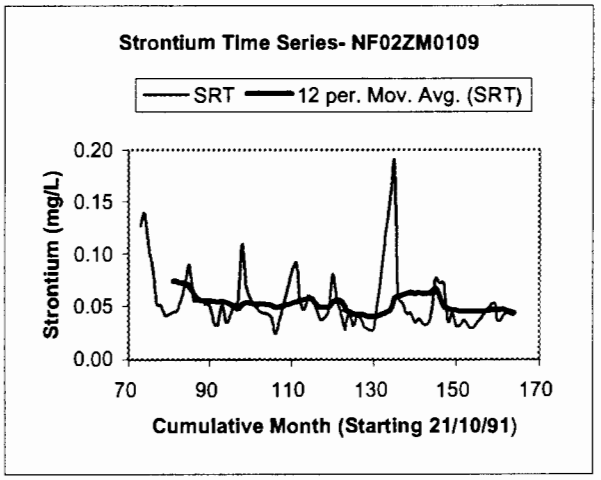

Iron Time Series- NF02ZM0109
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

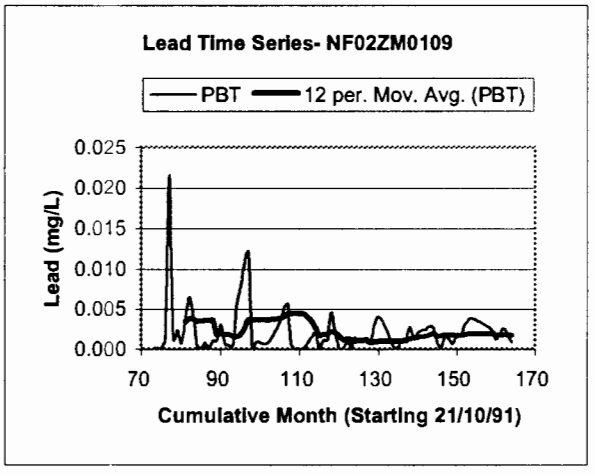

Manganese Time Series- NF02ZM0109
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

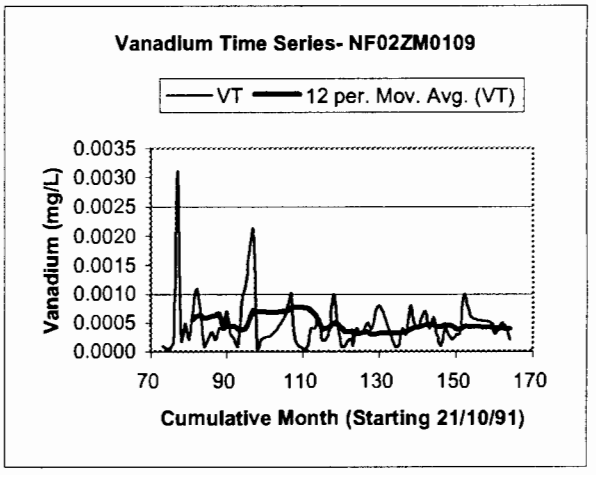

Molybdenum Time Series- NF02ZM0109
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

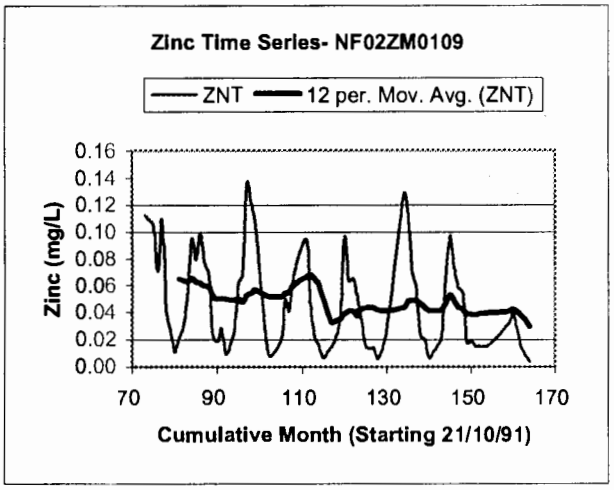

Selenium Time Series- NF02ZM0109
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)


Nickel Time Series- NF02ZM0109
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

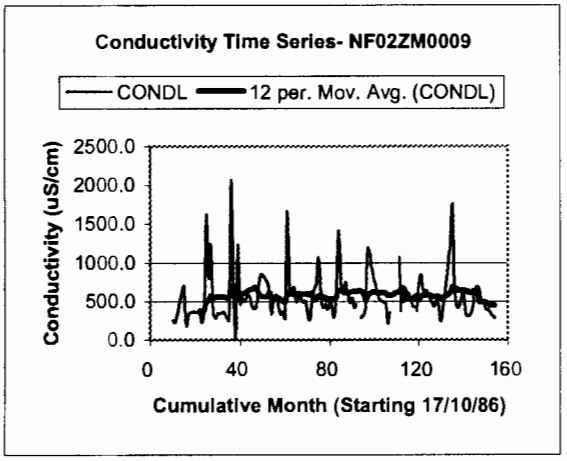

Strontium Time Series- NF02ZM0109
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.20
0.15
0.10
0.05
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

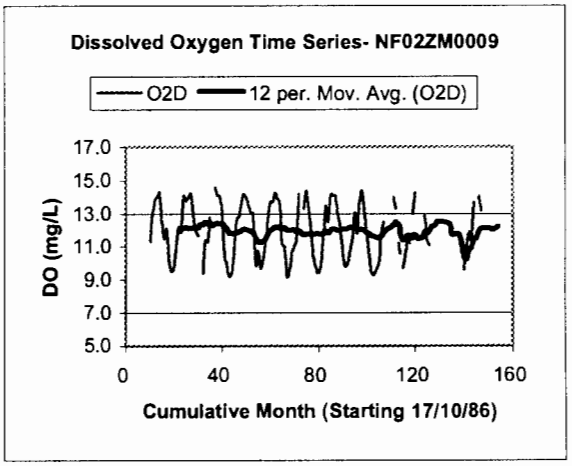

Lead Time Series- NF02ZM0109
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

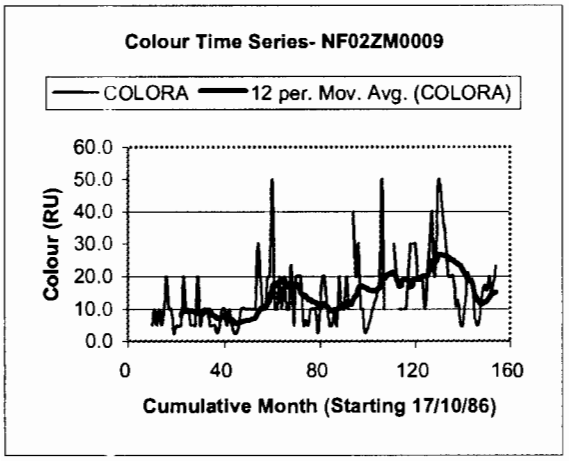

Vanadium Time Series- NF02ZM0109
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

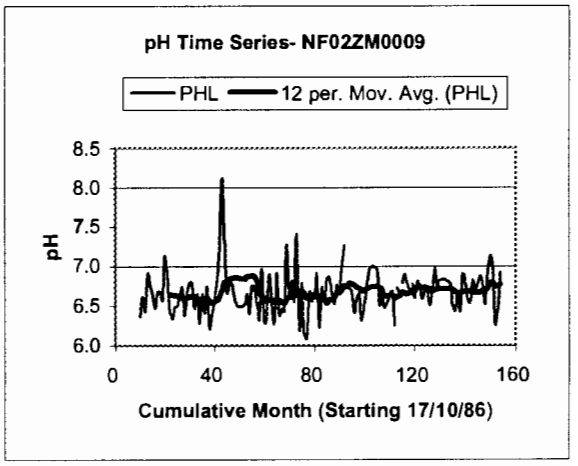

Zinc Time Series- NF02ZM0109
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
70
90
110
130
150
170
Cumulative Month (Starting 21/10/91)

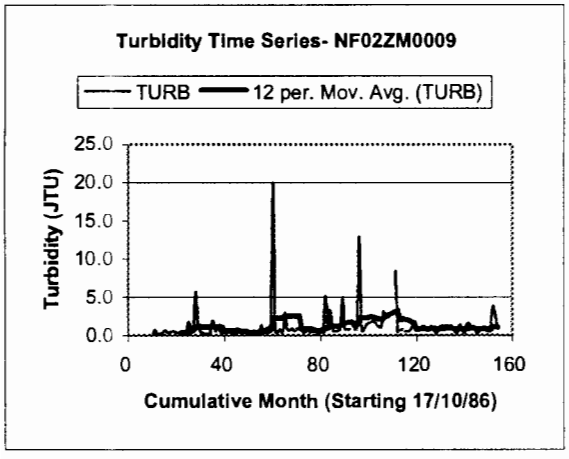
Time Series Plots of Waterford River (@ Kilbride)- NF02ZM0009

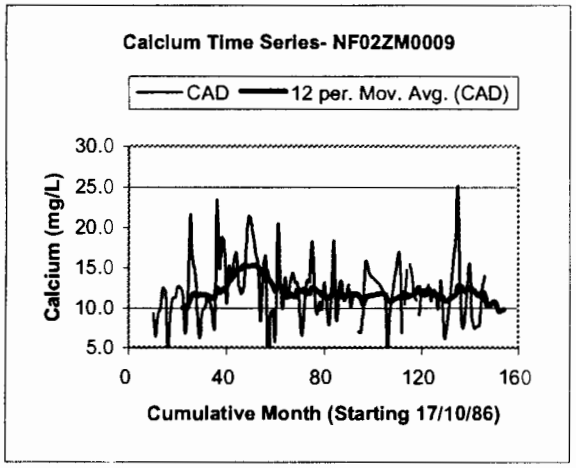


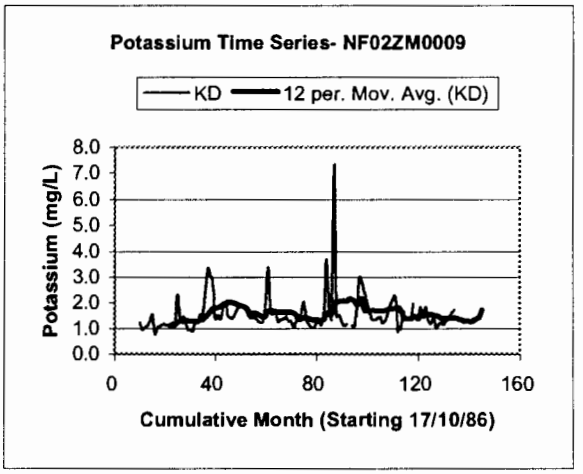


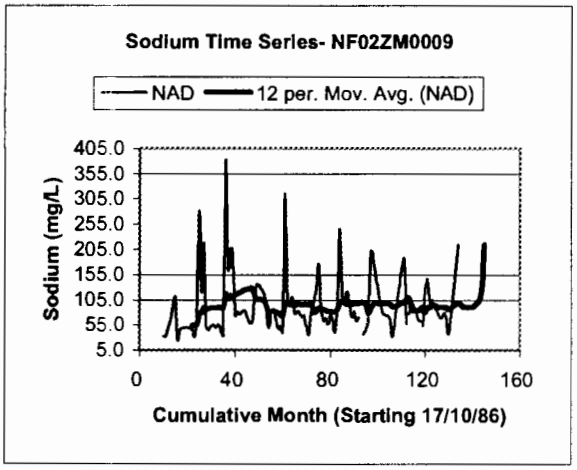


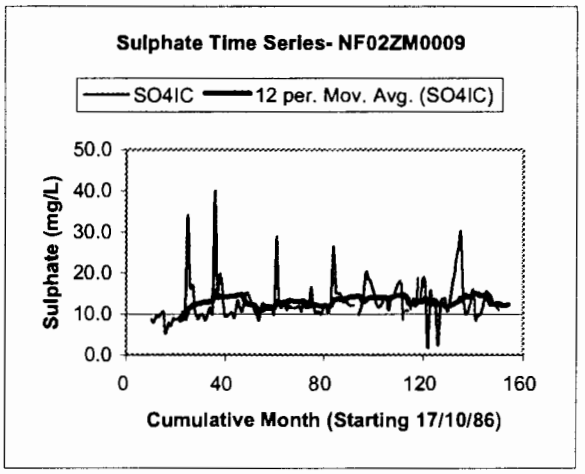


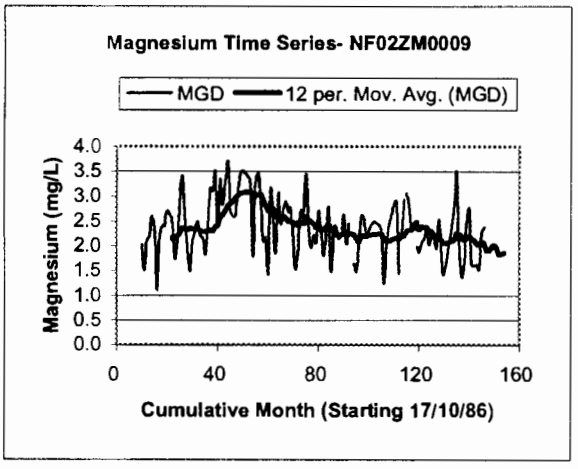


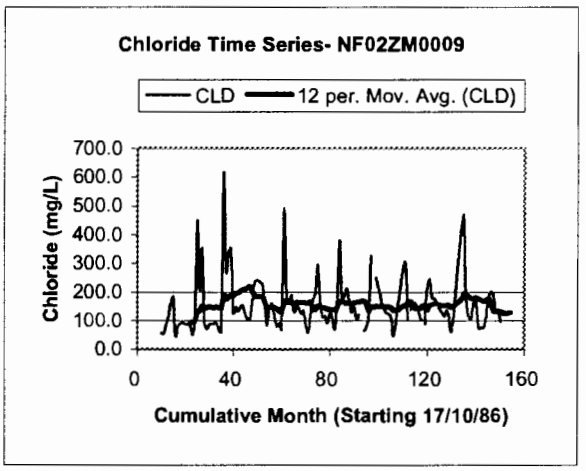

Calcium Time Series- NF02ZM0009
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
30.0
25.0
20.0
15.0
10.0
5.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

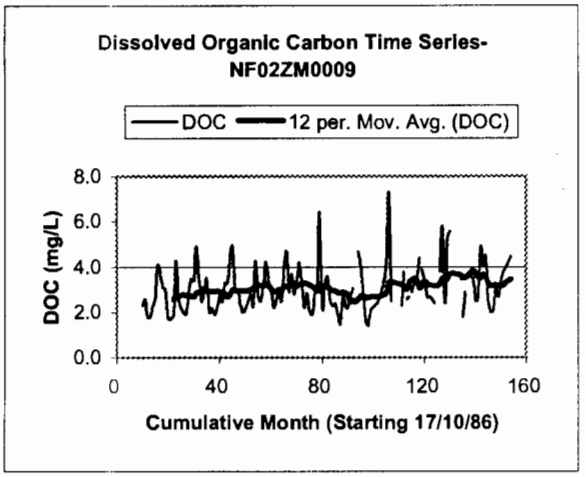

Potassium Time Series- NF02ZM0009
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

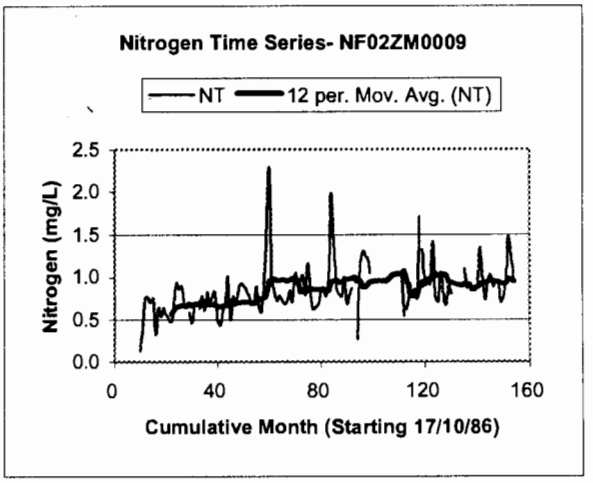

Sodium Time Series- NF02ZM0009
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
405.0
355.0
305.0
255.0
205.0
155.0
105.0
55.0
5.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

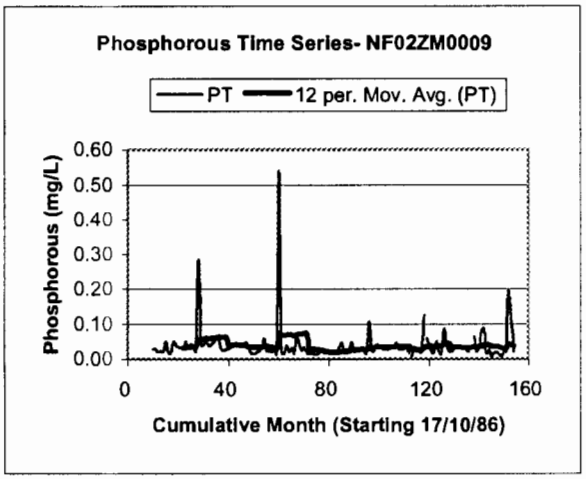

Sulphate Time Series- NF02ZM0009
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
50.0
40.0
30.0
20.0
10.0
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

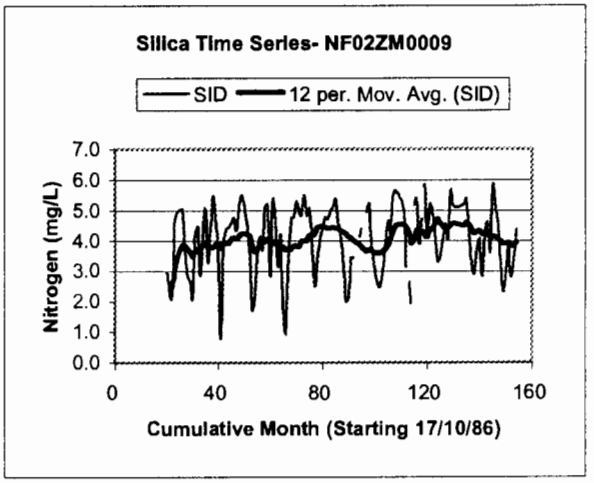

Magnesium Time Series- NF02ZM0009
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

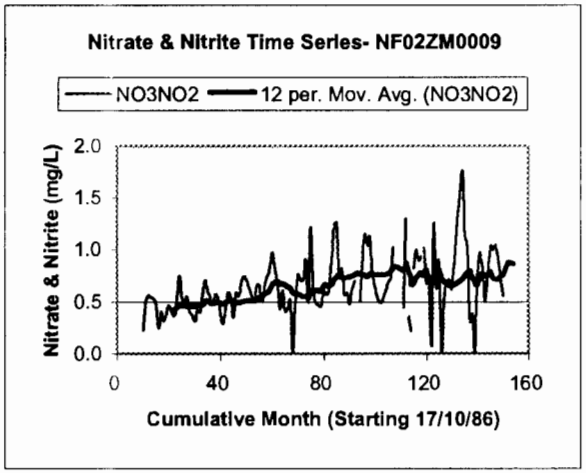

Chloride Time Series- NF02ZM0009
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

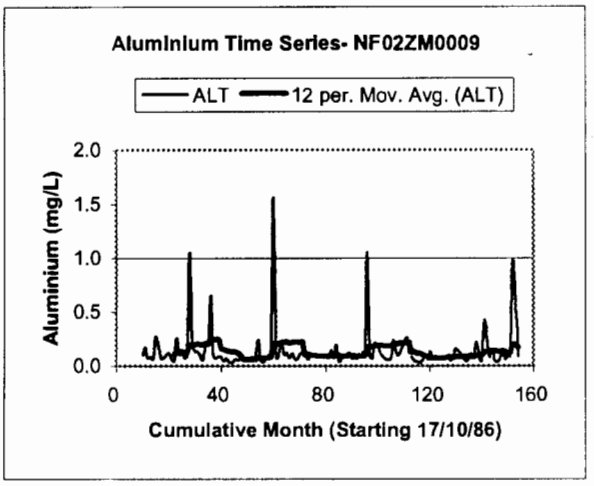

Dissolved Organic Carbon Time Series- NF02ZM0009
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
8.0
6.0
4.0
2.0
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

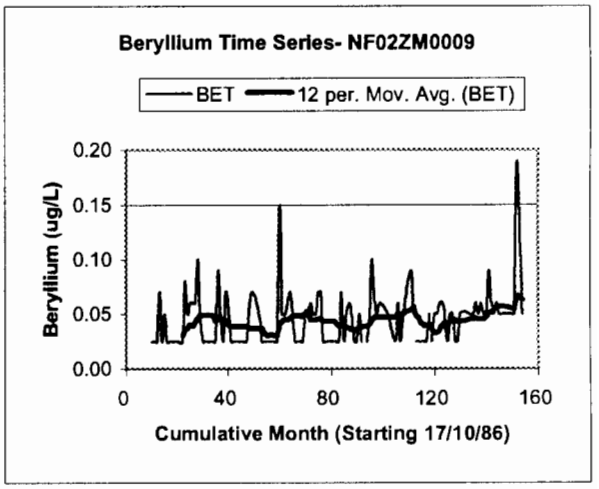

Nitrogen Time Series- NF02ZM0009
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
2.5
2.0
1.5
1.0
0.5
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

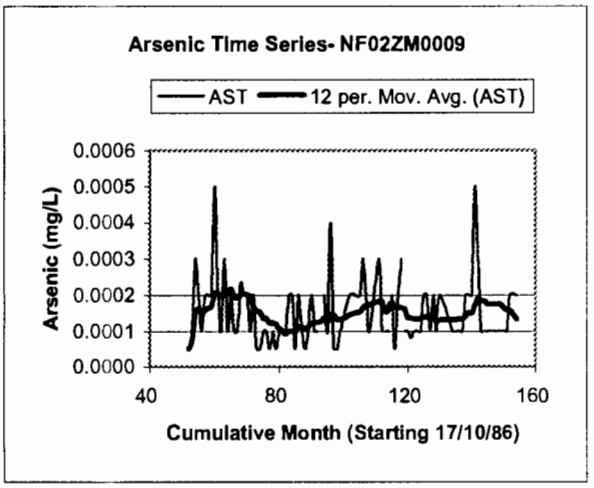

Phosphorous Time Series- NF02ZM0009
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

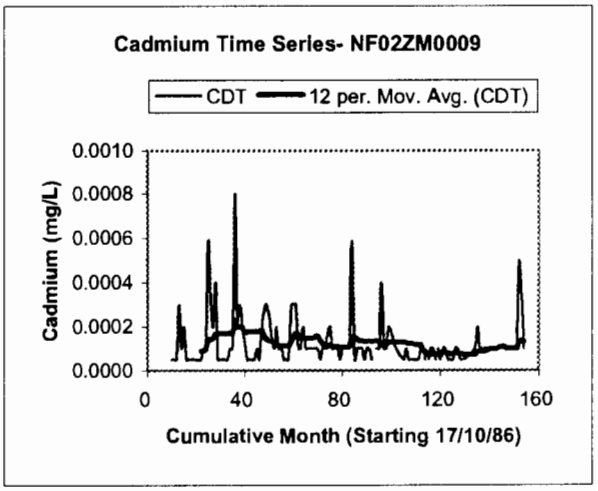

Silica Time Series- NF02ZM0009
SID
12 per. Mov. Avg. (SID)
Nitrogen (mg/L)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

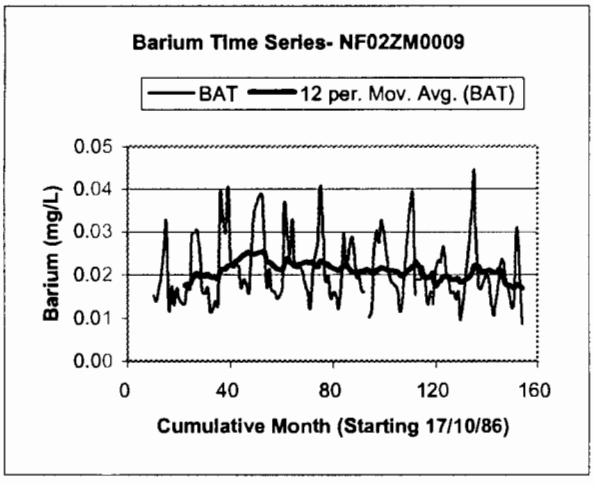

Nitrate & Nitrite Time Series- NF02ZM0009
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
2.0
1.5
1.0
0.5
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

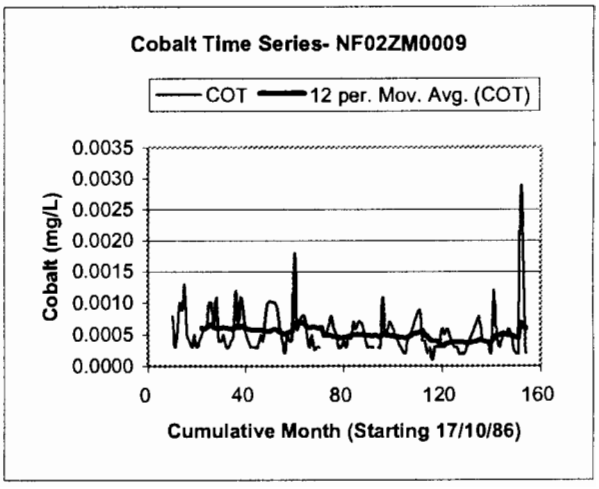

Aluminium Time Series- NF02ZM0009
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
2.0
1.5
1.0
0.5
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

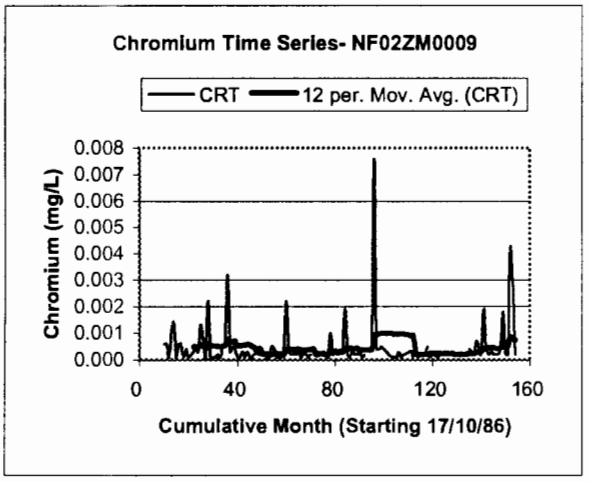

Beryllium Time Series- NF02ZM0009
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

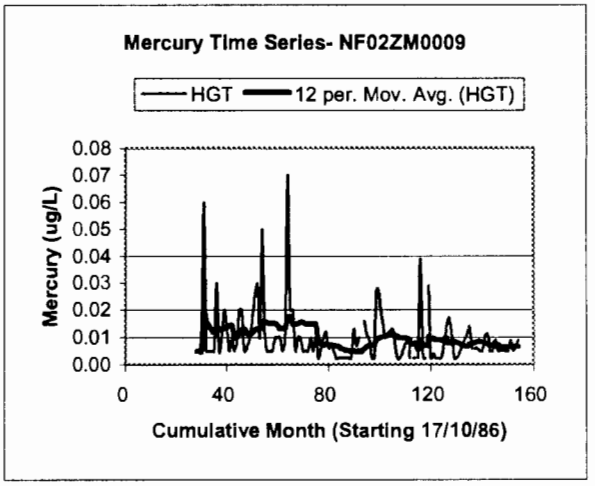

Arsenic Time Series- NF02ZM0009
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 17/10/86)

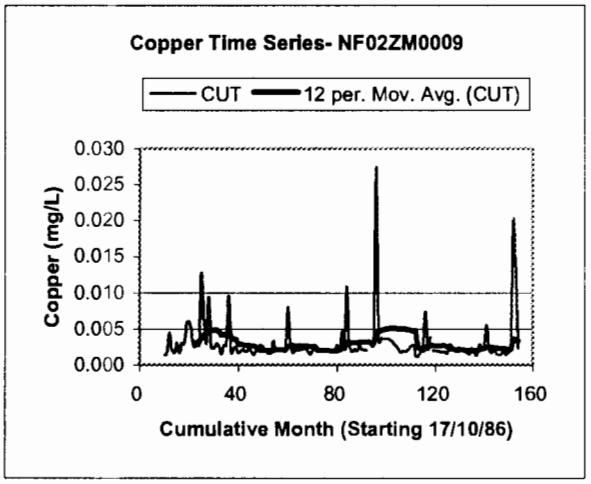

Cadmium Time Series- NF02ZM0009
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

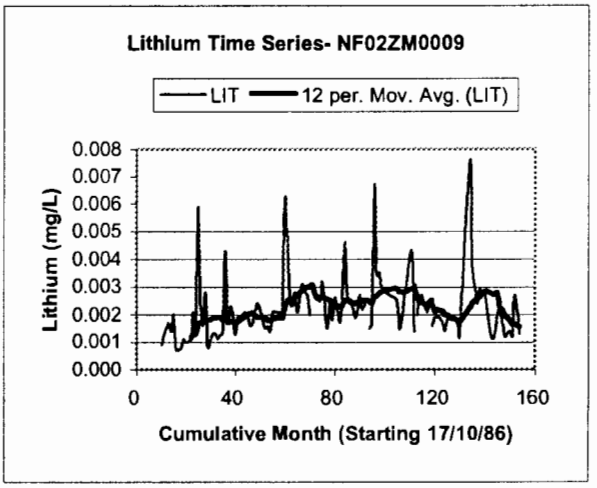

Barium Time Series- NF02ZM0009
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

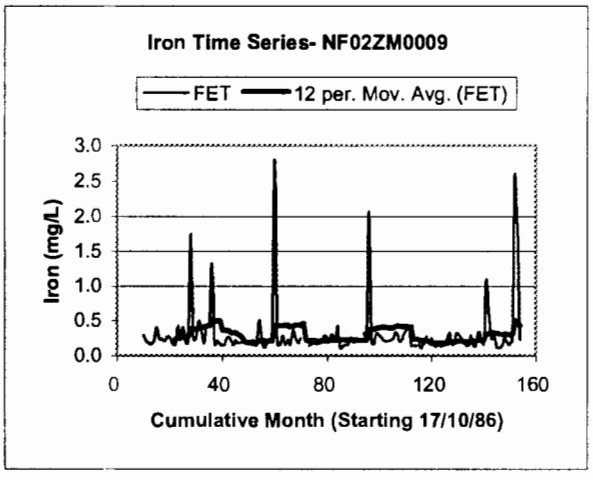

Cobalt Time Series- NF02ZM0009
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

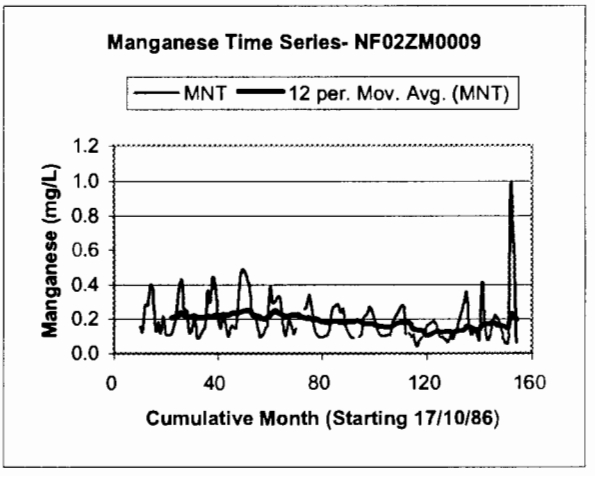

Chromium Time Series- NF02ZM0009
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

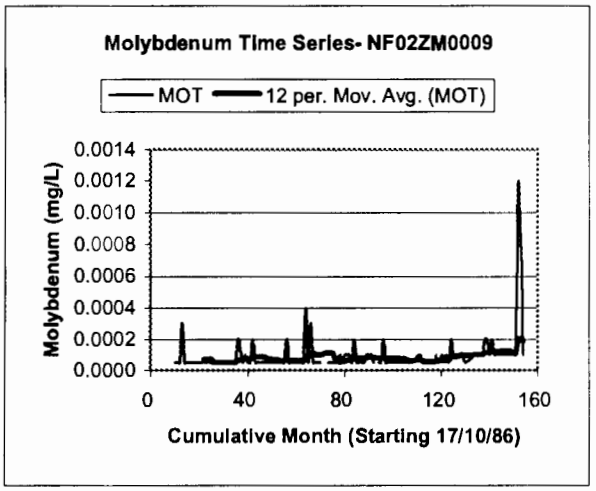

Mercury Time Series- NF02ZM0009
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

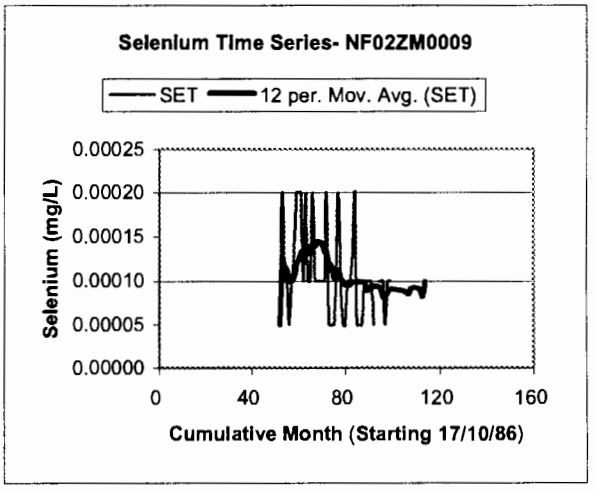

Copper Time Series- NF02ZM0009
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

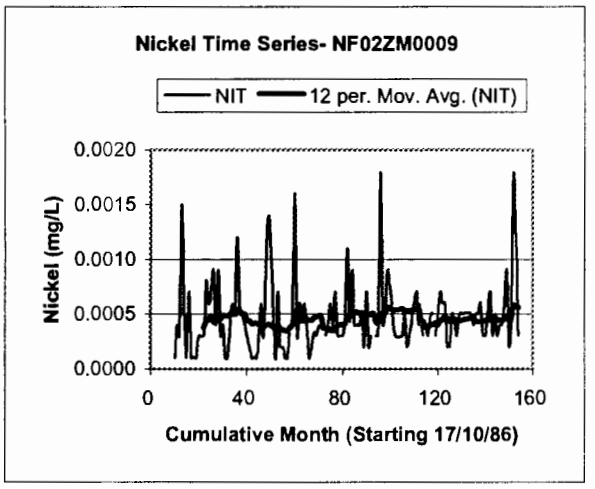

Lithium Time Series- NF02ZM0009
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

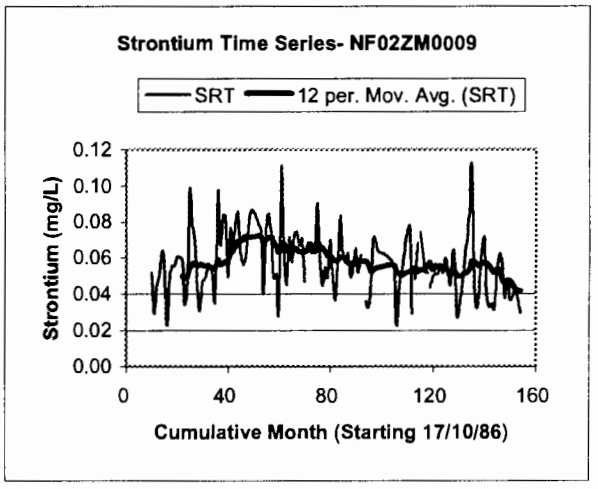

Iron Time Series- NF02ZM0009
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

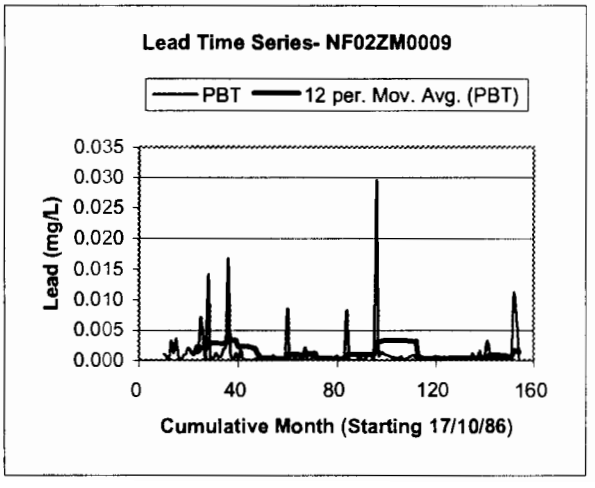

Manganese Time Series- NF02ZM0009
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

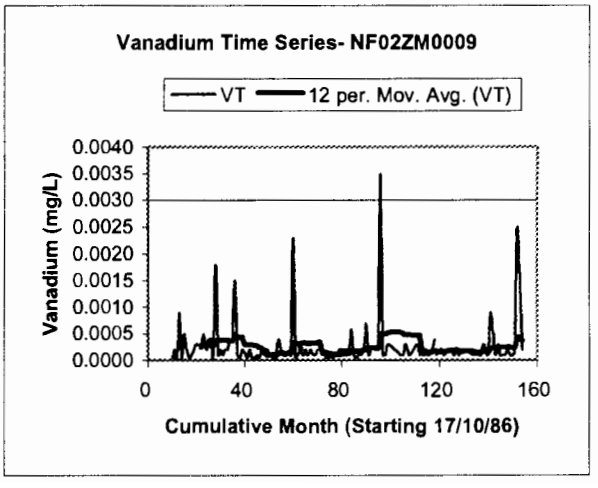

Molybdenum Time Series- NF02ZM0009
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

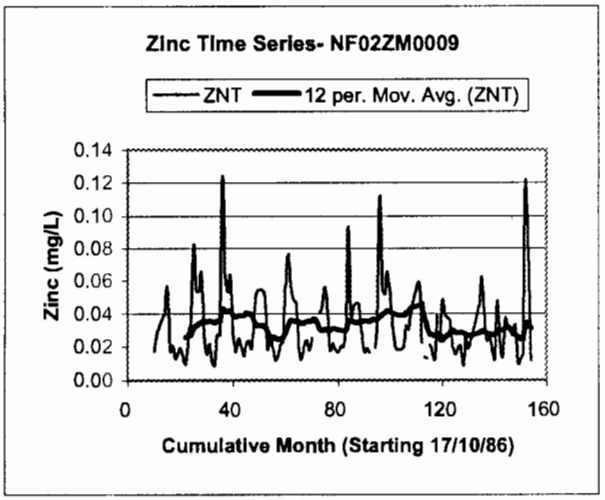

Selenium Time Series- NF02ZM0009
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)


Nickel Time Series- NF02ZM0009
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

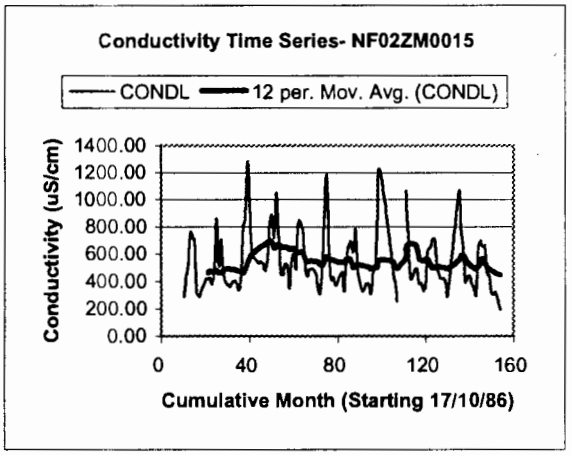

Strontium Time Series- NF02ZM0009
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

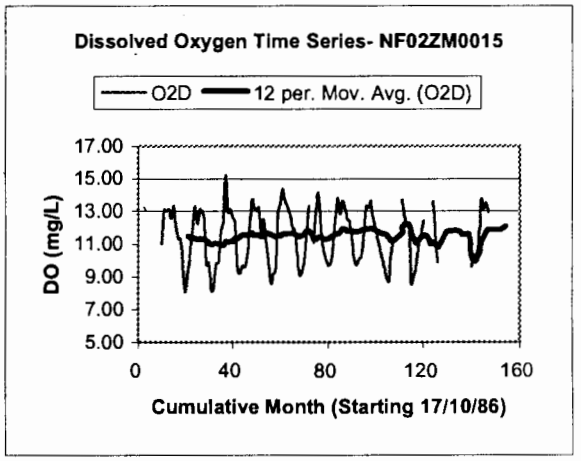

Lead Time Series- NF02ZM0009
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

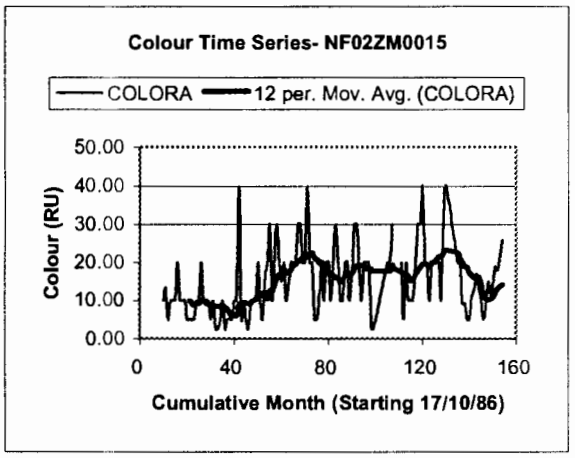

Vanadium Time Series- NF02ZM0009
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

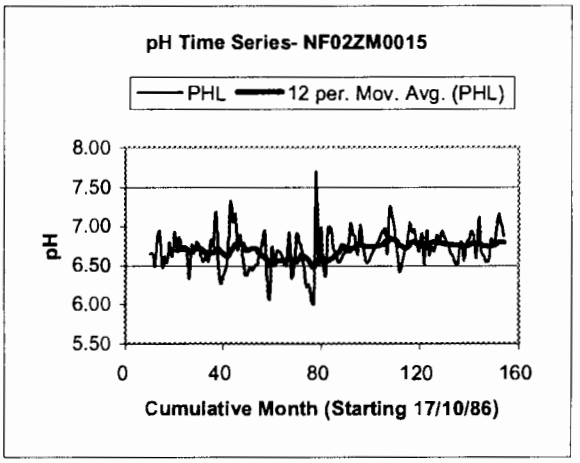

Zinc Time Series- NF02ZM0009
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

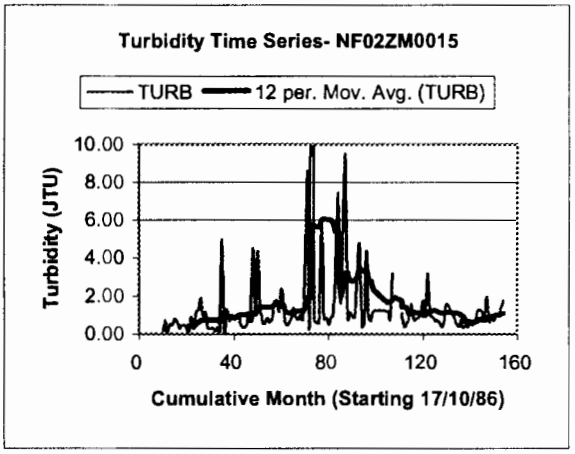
Time Series Plots of Quidi Vidi Lake Outlet- NF02ZM0015

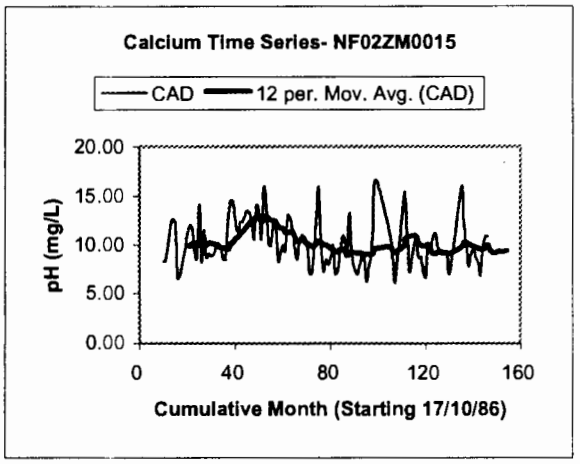


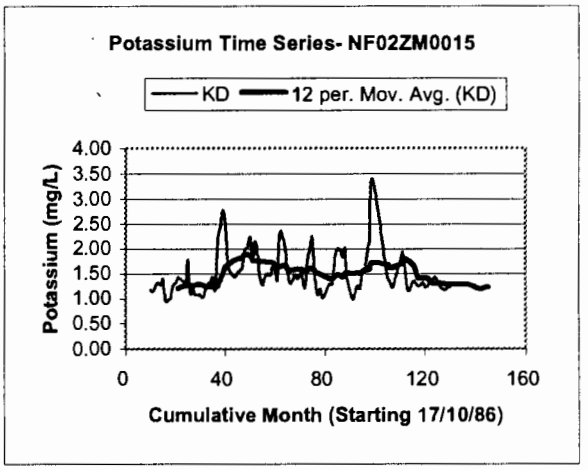


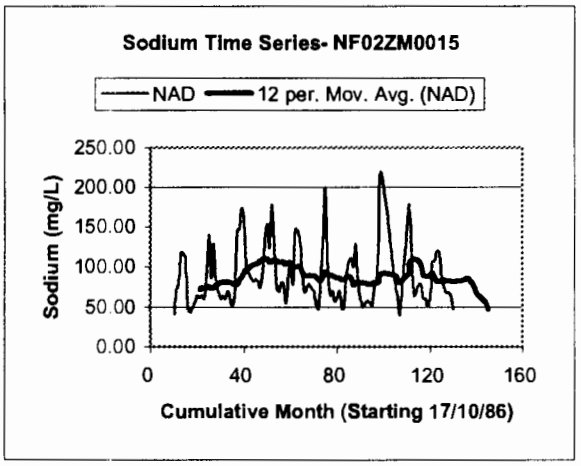


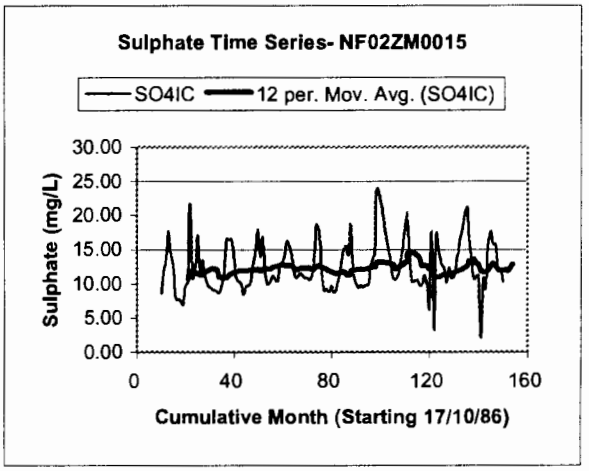


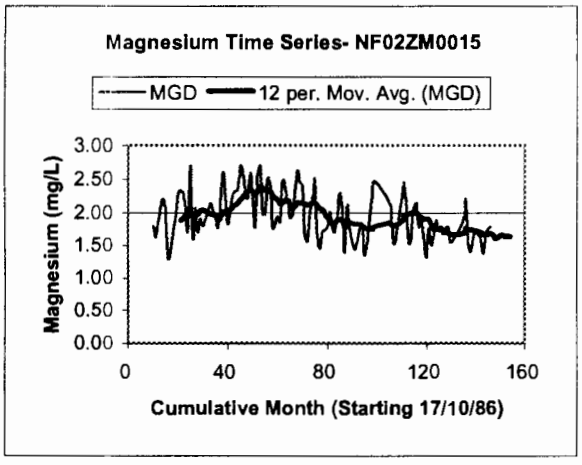


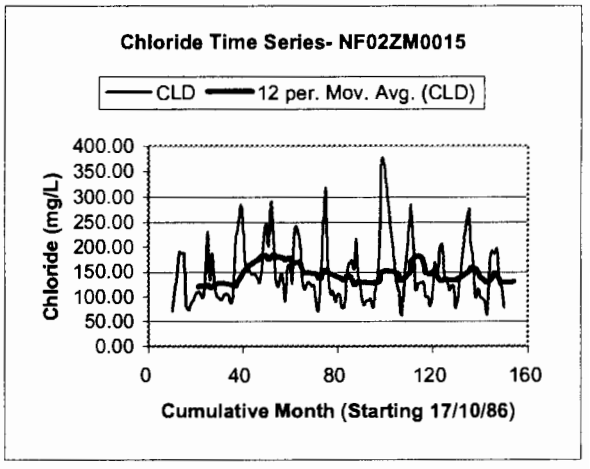

Calcium Time Series- NF02ZM0015
CAD
12 per. Mov. Avg. (CAD)
pH (mg/L)
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

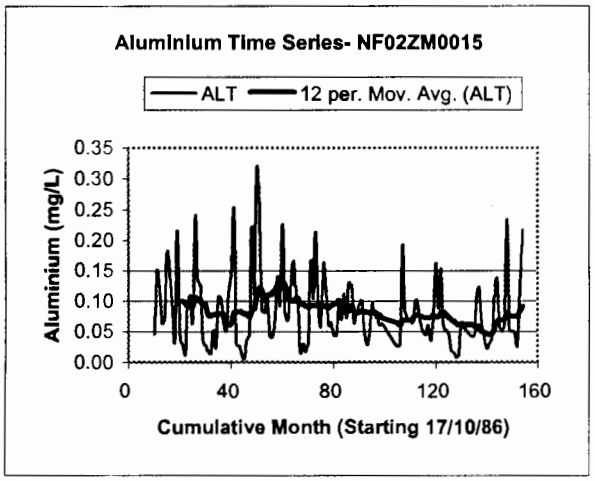

Potassium Time Series- NF02ZM0015
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

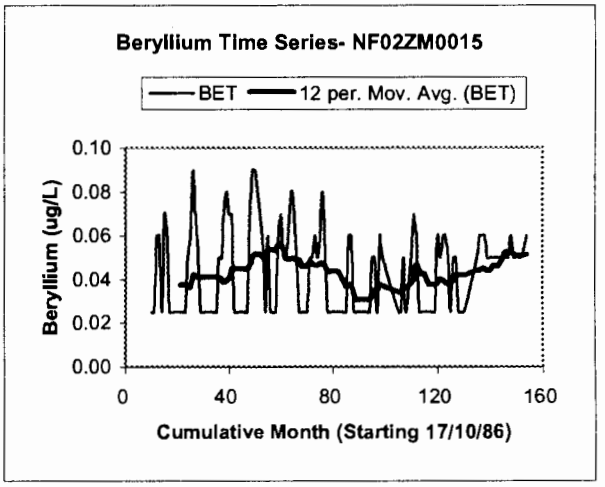

Sodium Time Series- NF02ZM0015
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
250.00
200.00
150.00
100.00
50.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

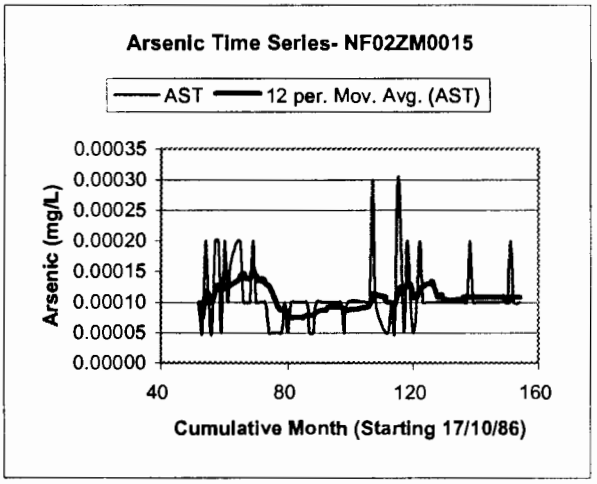

Sulphate Time Series- NF02ZM0015
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

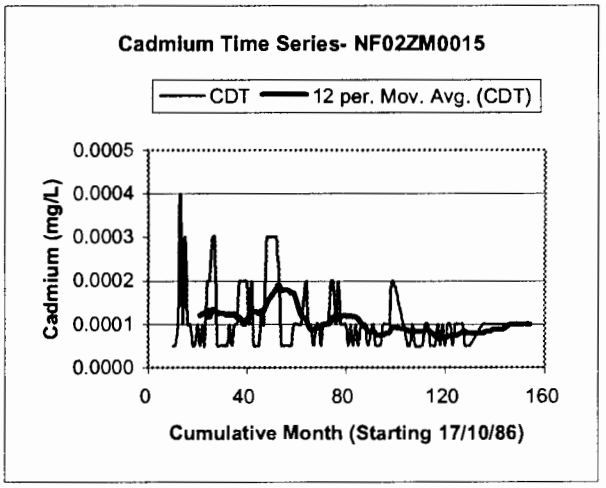

Magnesium Time Series- NF02ZM0015
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

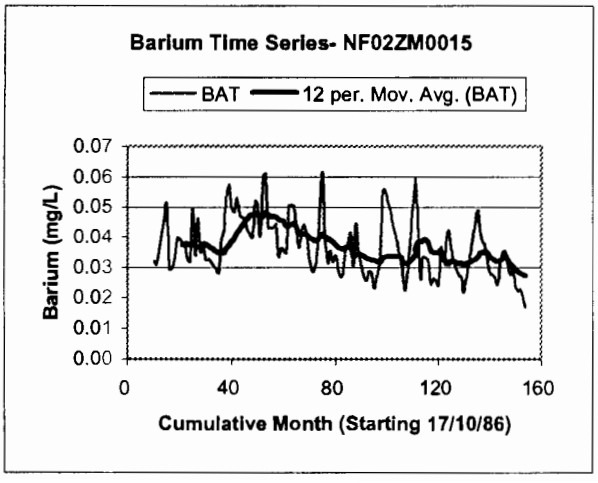

Chloride Time Series- NF02ZM0015
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
400.00
350.00
300.00
250.00
200.00
150.00
100.00
50.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

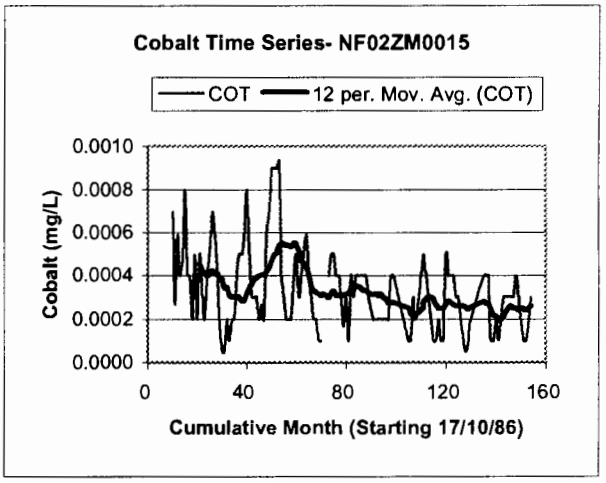

Aluminium Time Series- NF02ZM0015
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

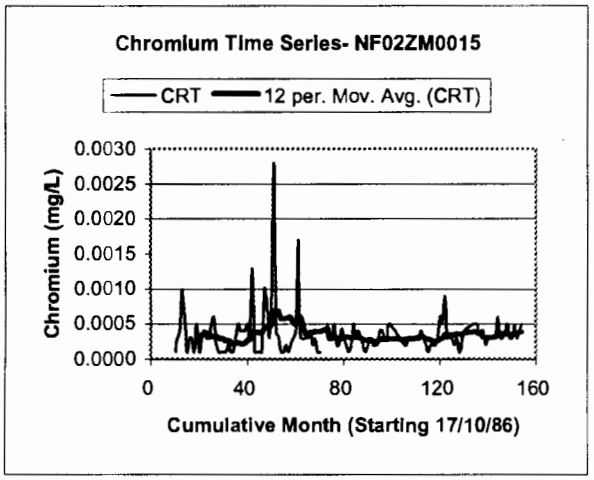

Beryllium Time Series- NF02ZM0015
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

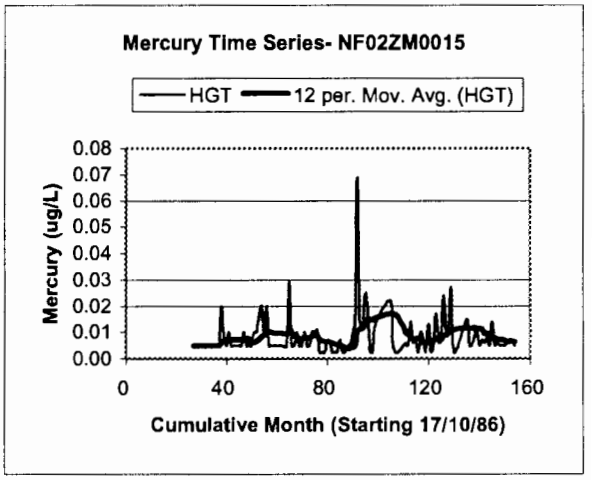

Arsenic Time Series- NF02ZM0015
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 17/10/86)

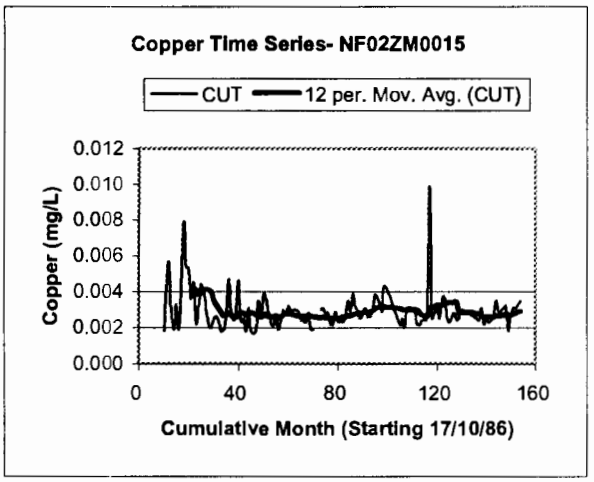

Cadmium Time Series- NF02ZM0015
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

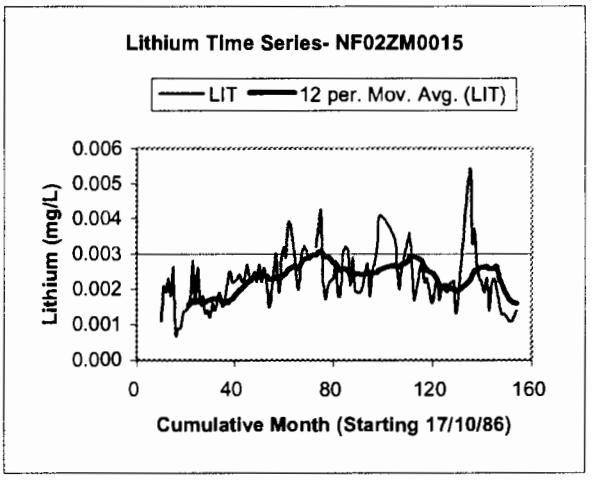

Barium Time Series- NF02ZM0015
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

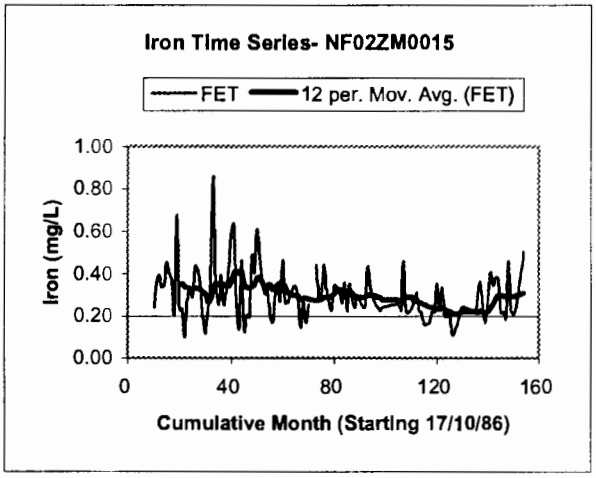

Cobalt Time Series- NF02ZM0015
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

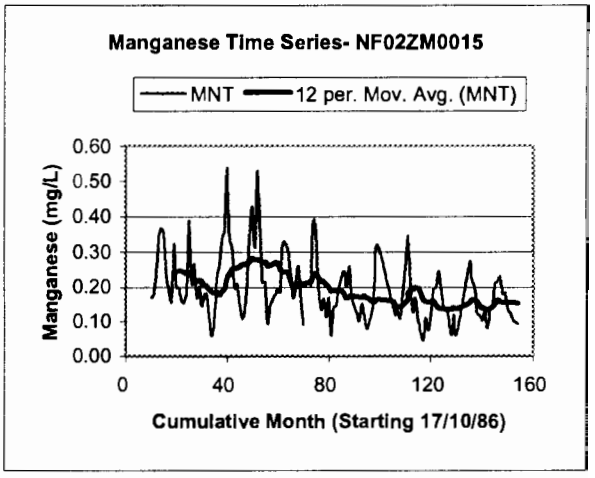

Chromium Time Series- NF02ZM0015
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

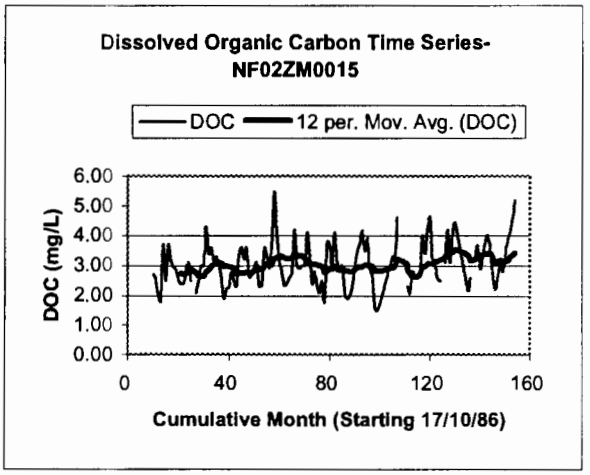

Mercury Time Series- NF02ZM0015
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

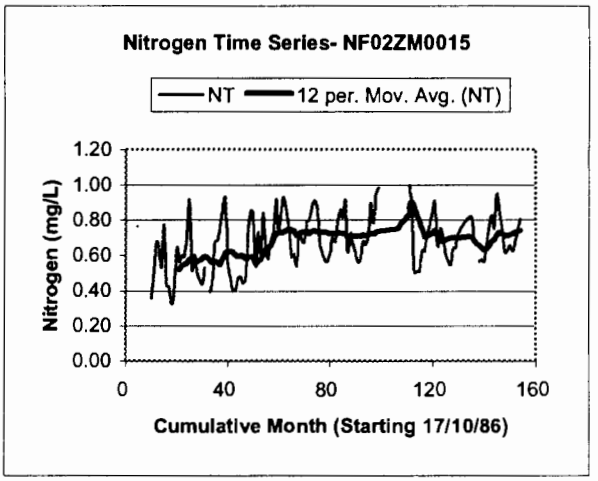

Copper Time Series- NF02ZM0015
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

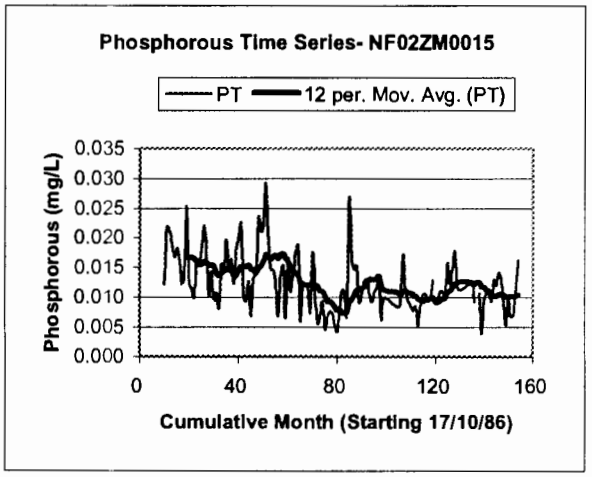

Lithium Time Series- NF02ZM0015
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

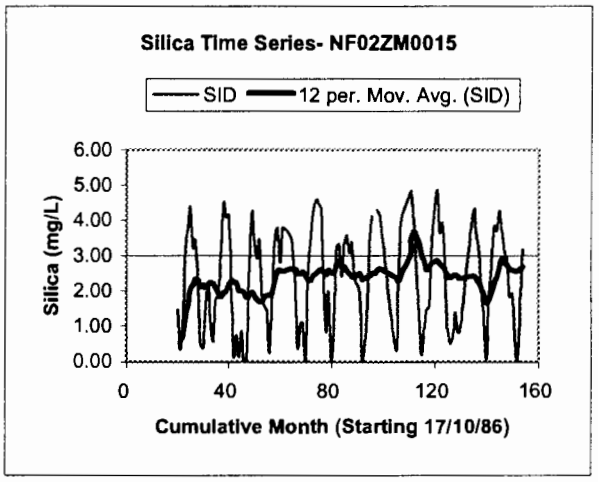

Iron Time Series- NF02ZM0015
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

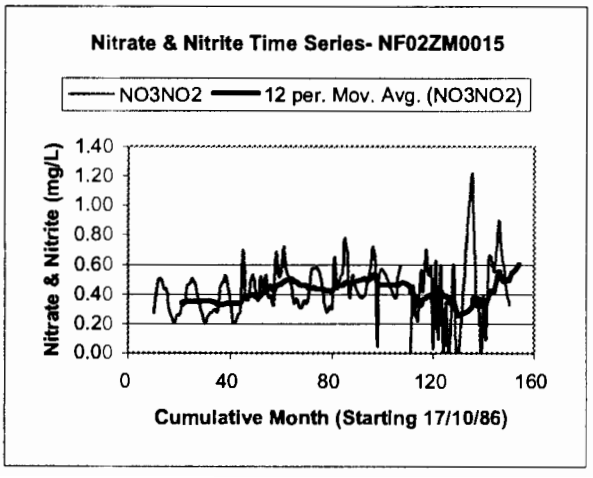

Manganese Time Series- NF02ZM0015
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

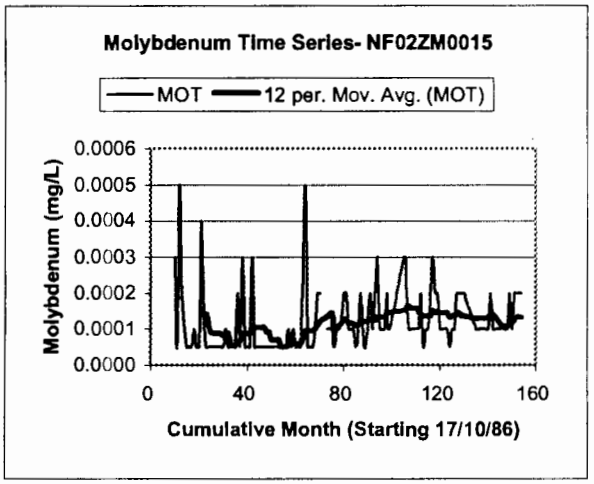

Dissolved Organic Carbon Time Series- NF02ZM0015
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

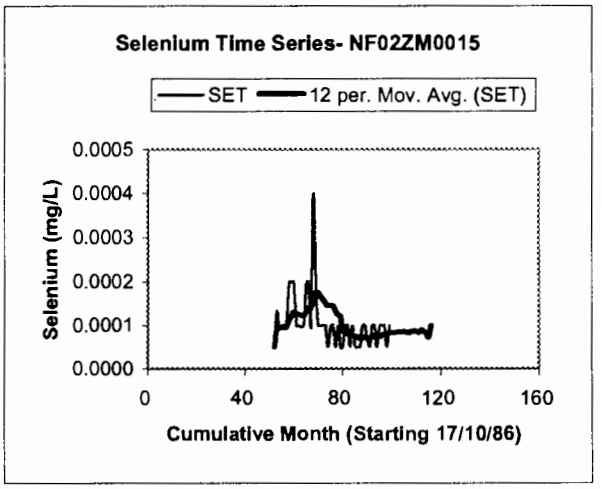

Nitrogen Time Series- NF02ZM0015
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

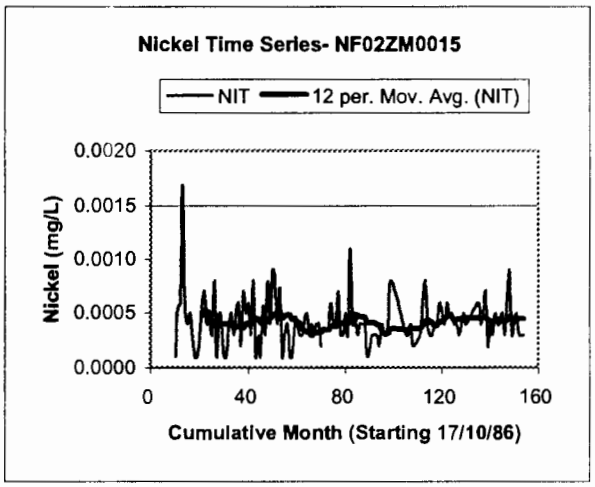

Phosphorous Time Series- NF02ZM0015
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

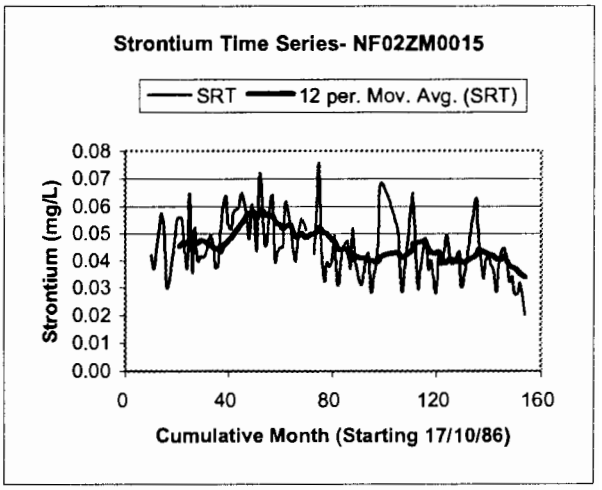

Silica Time Series- NF02ZM0015
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

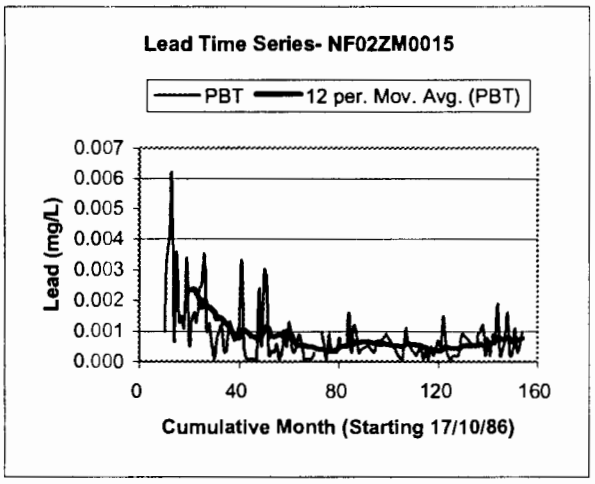

Nitrate & Nitrite Time Series- NF02ZM0015
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

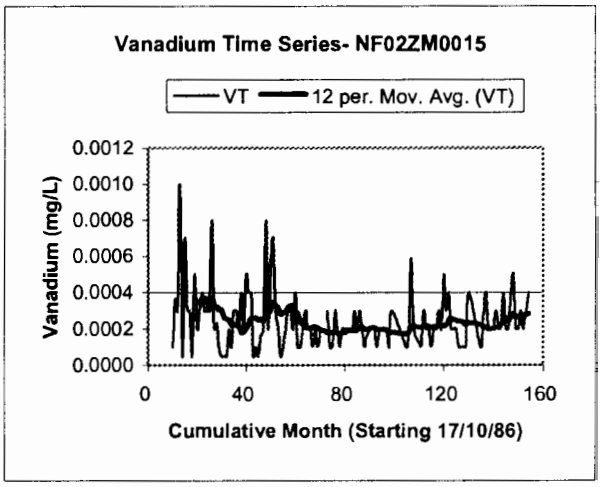

Molybdenum Time Series- NF02ZM0015
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

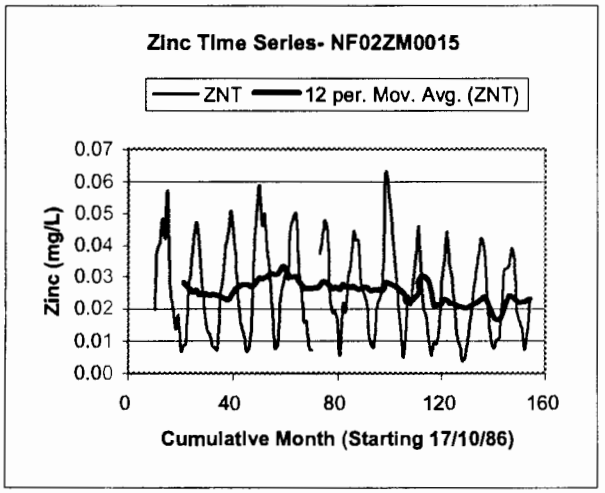

Selenium Time Series- NF02ZM0015
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)


Nickel Time Series- NF02ZM0015
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

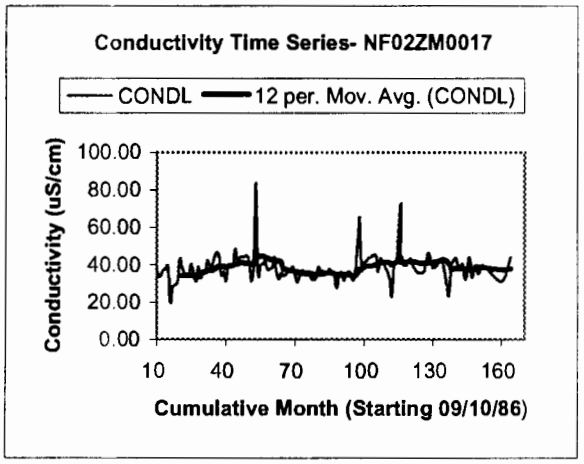

Strontium Time Series- NF02ZM0015
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

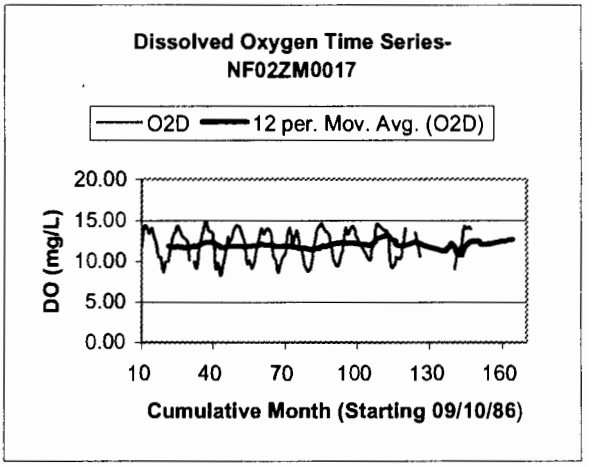

Lead Time Series- NF02ZM0015
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

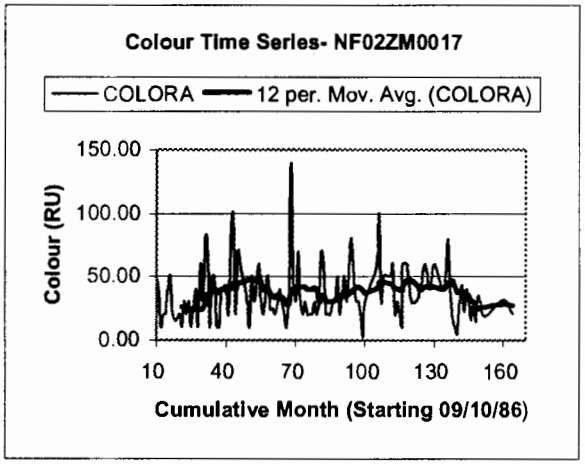

Vanadium Time Series- NF02ZM0015
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

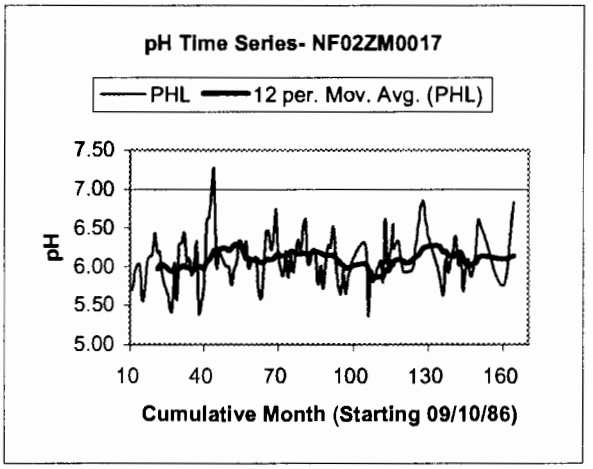

Zinc Time Series- NF02ZM0015
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/10/86)

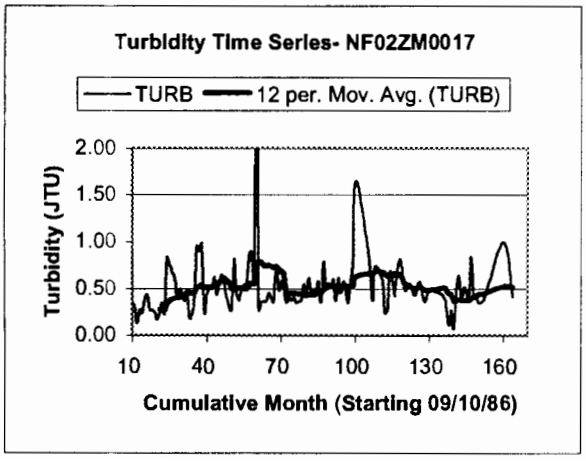
Time Series Plots of Raymond Brook- NF02ZM0017

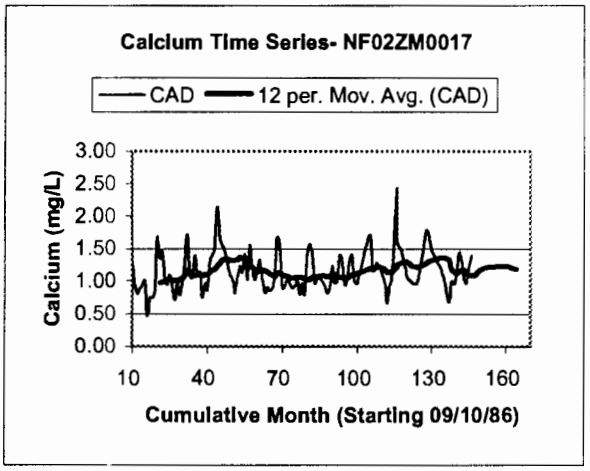


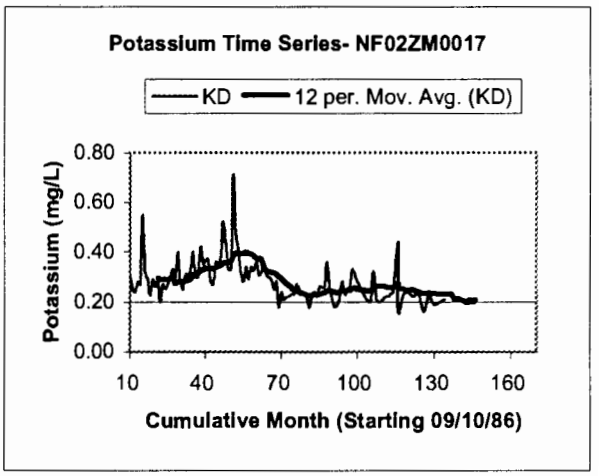


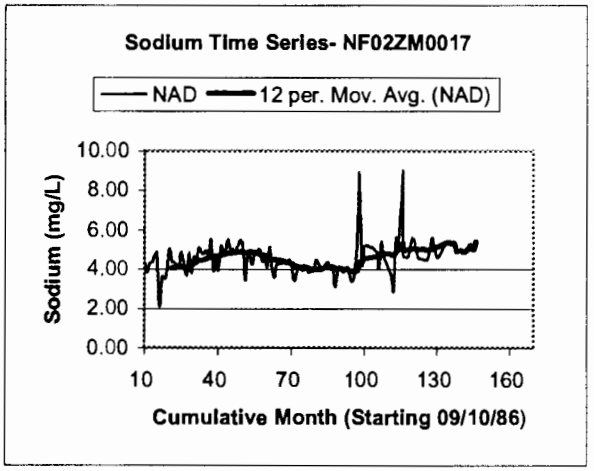


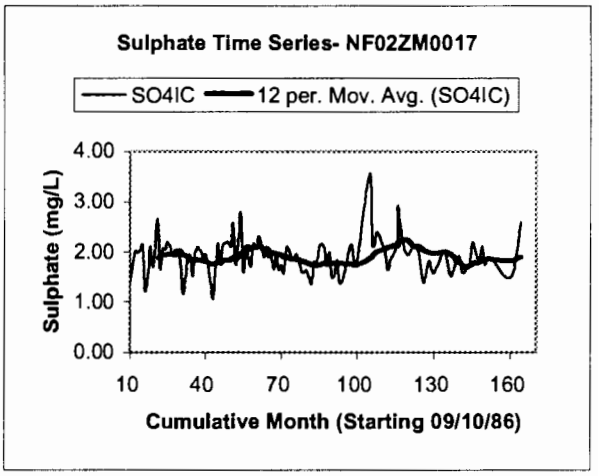


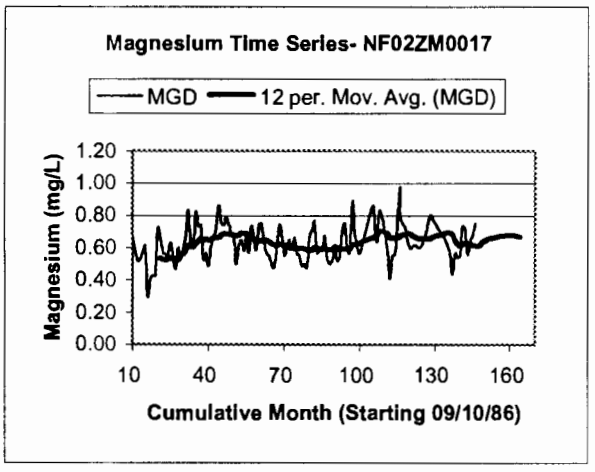


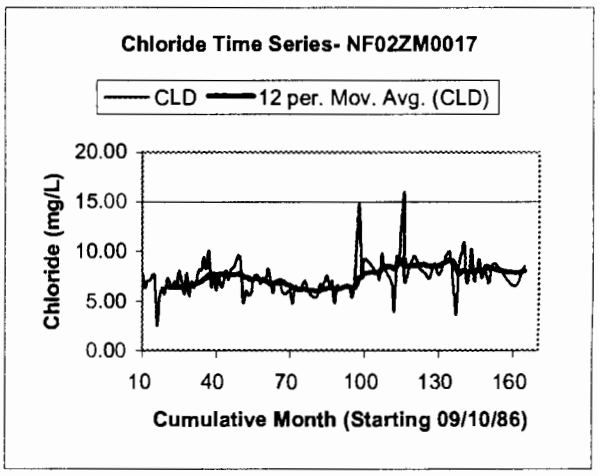

Calcium Time Series- NF02ZM0017
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

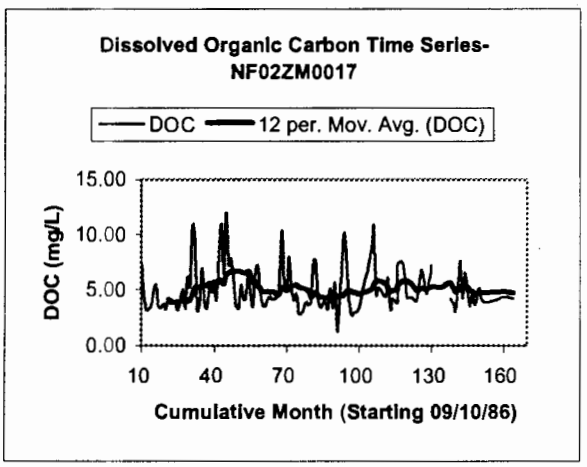

Potassium Time Series- NF02ZM0017
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

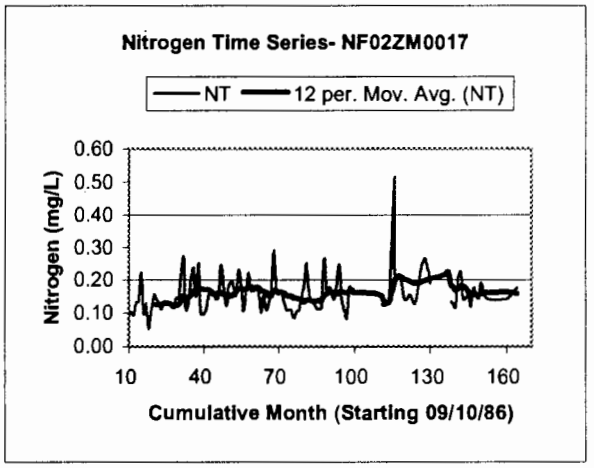

Sodium Time Series- NF02ZM0017
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

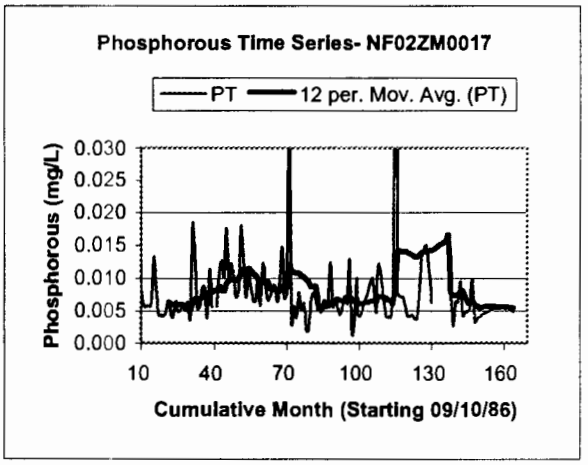

Sulphate Time Series- NF02ZM0017
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

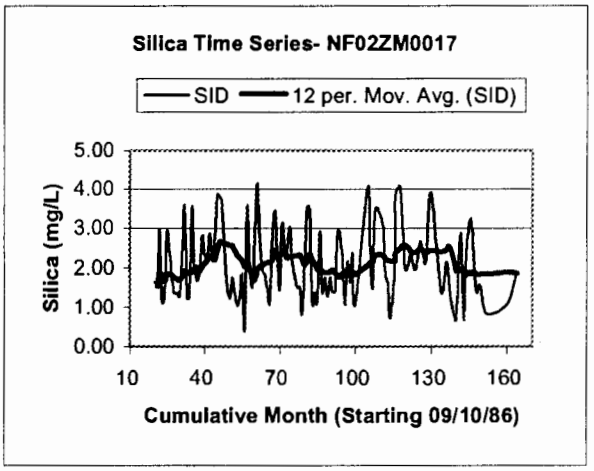

Magnesium Time Series- NF02ZM0017
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

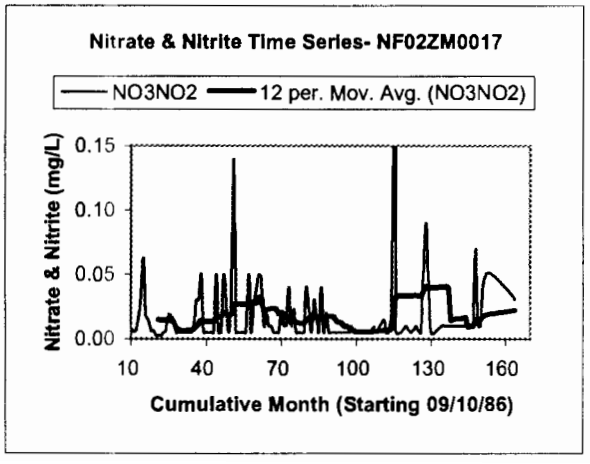

Chloride Time Series- NF02ZM0017
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

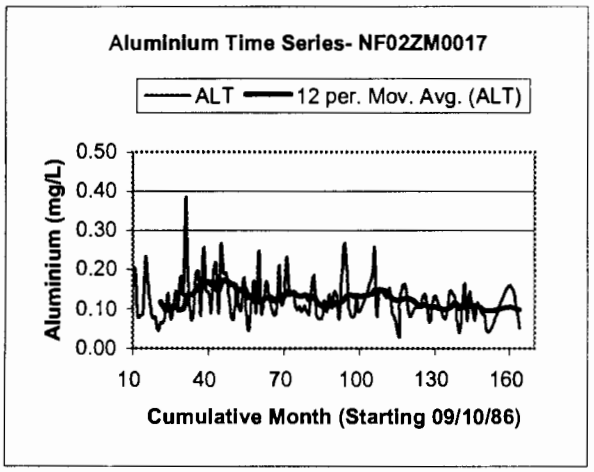

Dissolved Organic Carbon Time Series- NF02ZM0017
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

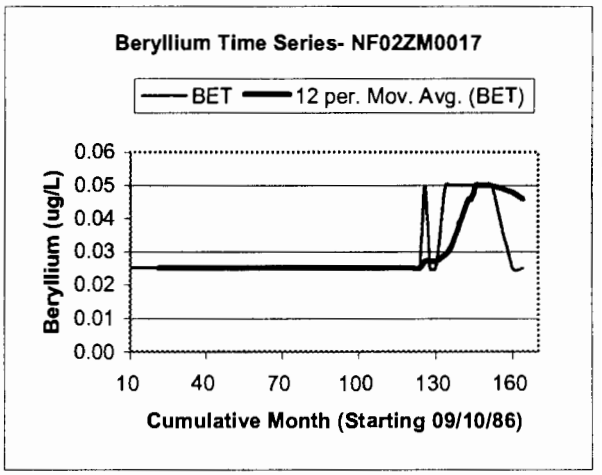

Nitrogen Time Series- NF02ZM0017
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

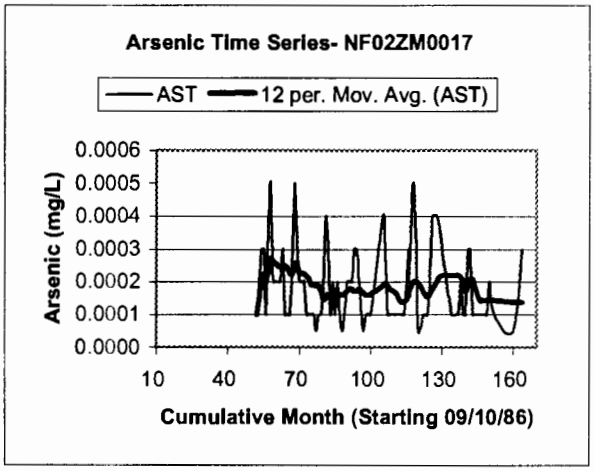

Phosphorous Time Series- NF02ZM0017
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

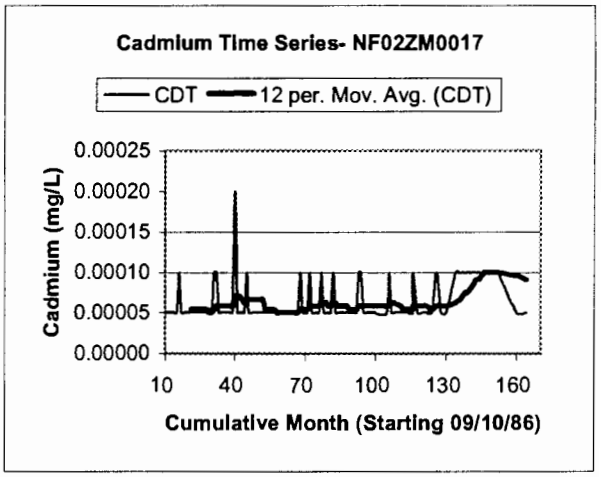

Silica Time Series- NF02ZM0017
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

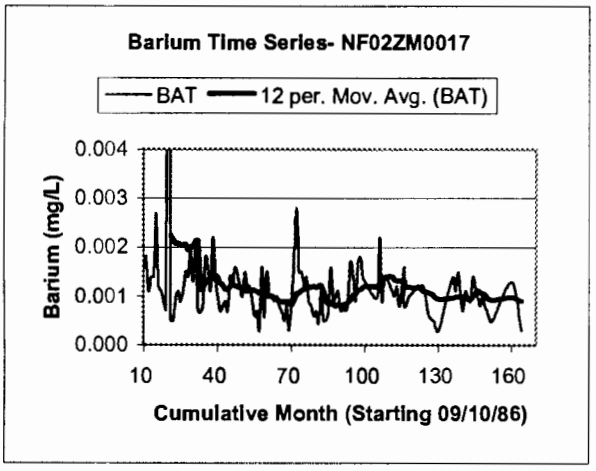

Nitrate & Nitrite Time Series- NF02ZM0017
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

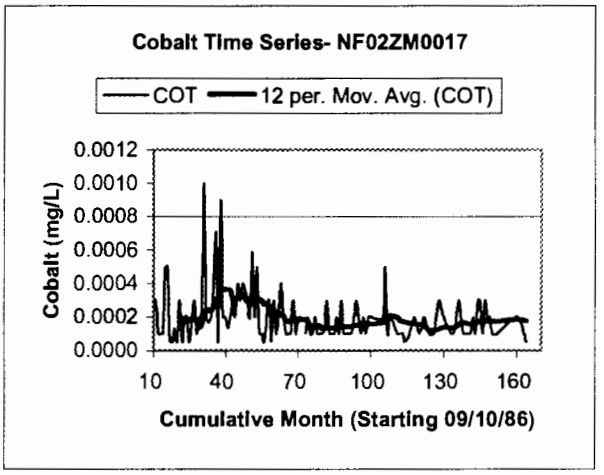

Aluminium Time Series- NF02ZM0017
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

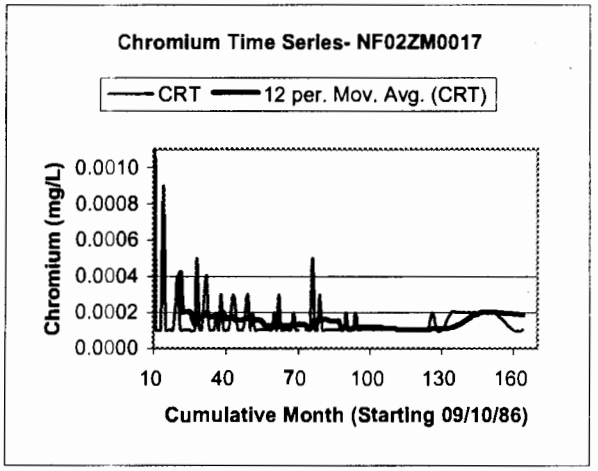

Beryllium Time Series- NF02ZM0017
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

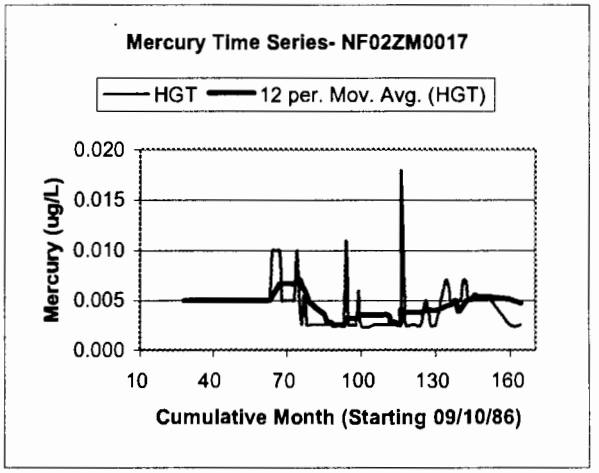

Arsenic Time Series- NF02ZM0017
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

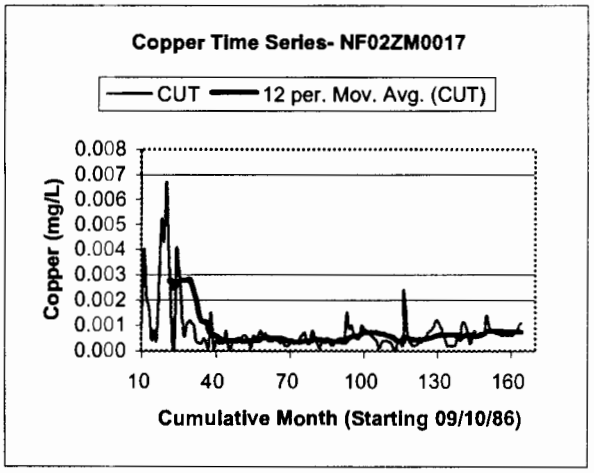

Cadmium Time Series- NF02ZM0017
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

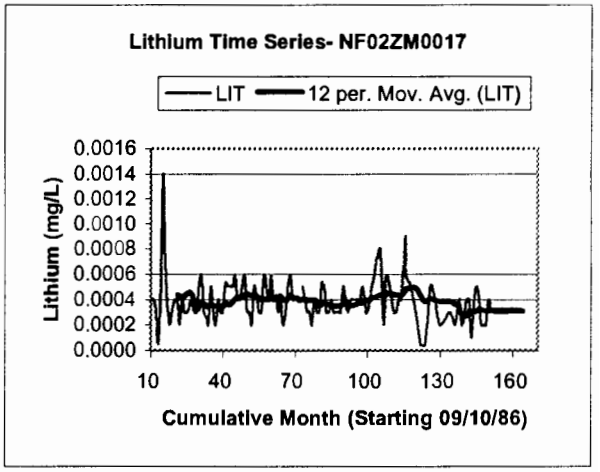

Barium Time Series- NF02ZM0017
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

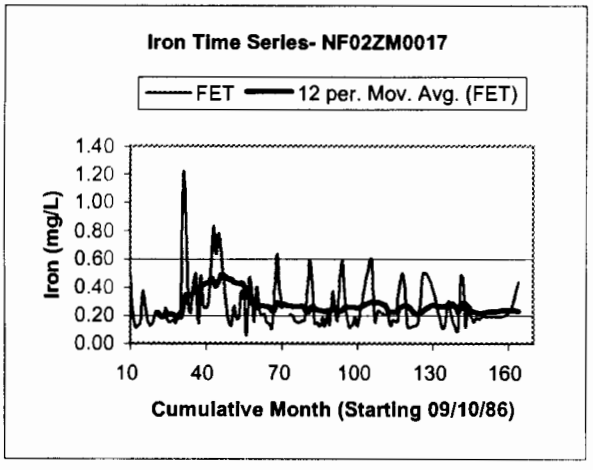

Cobalt Time Series- NF02ZM0017
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

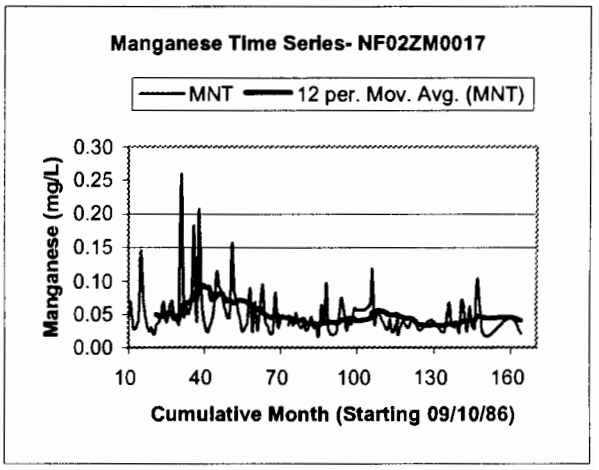

Chromium Time Series- NF02ZM0017
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

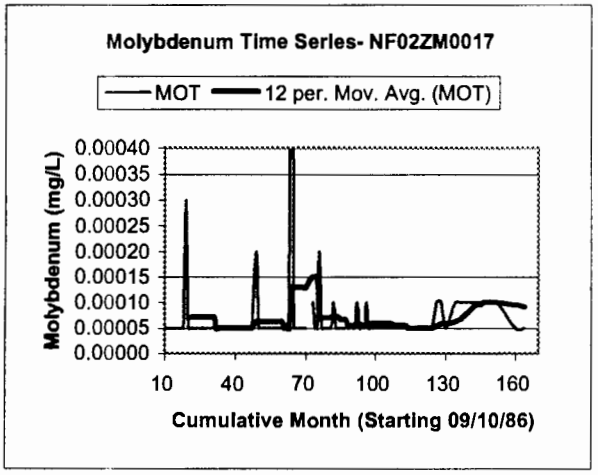

Mercury Time Series- NF02ZM0017
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

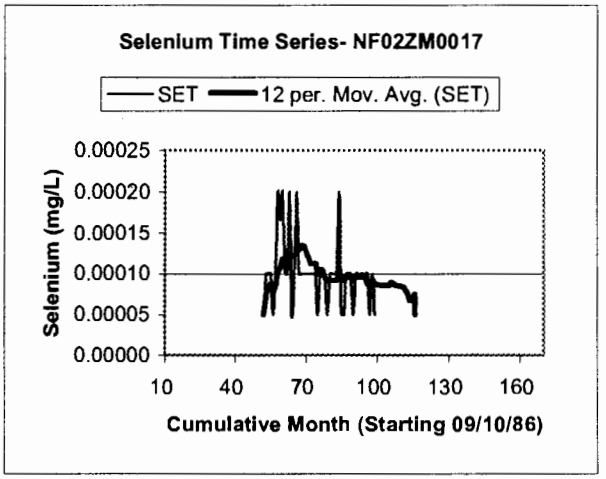

Copper Time Series- NF02ZM0017
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

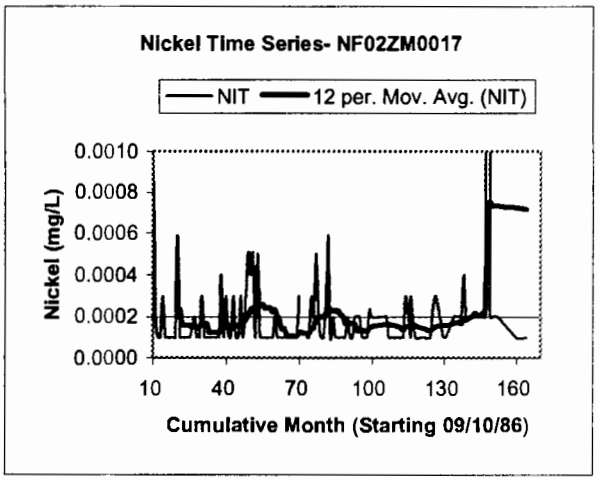

Lithium Time Series- NF02ZM0017
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

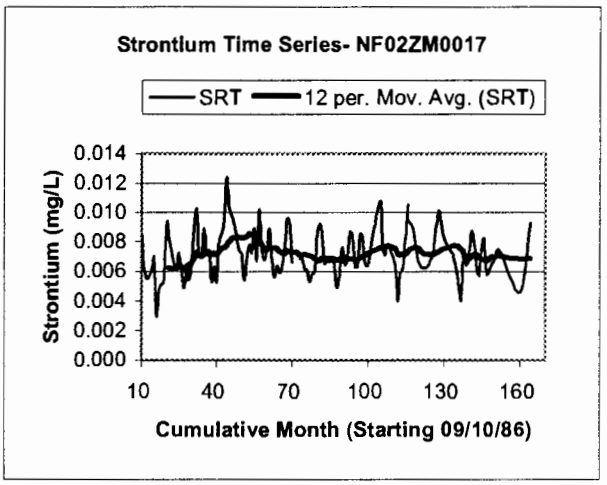

Iron Time Series- NF02ZM0017
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

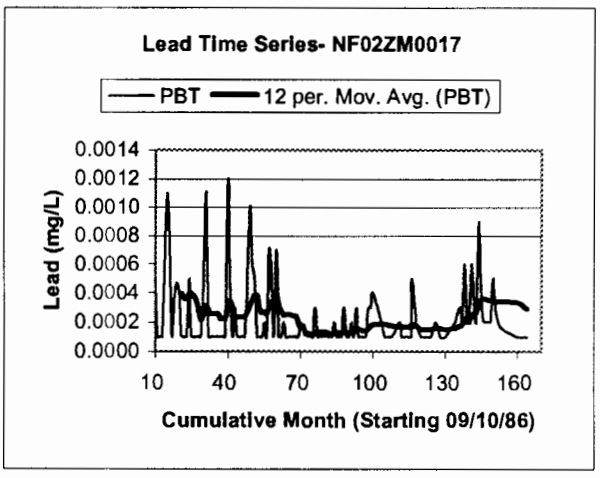

Manganese Time Series- NF02ZM0017
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

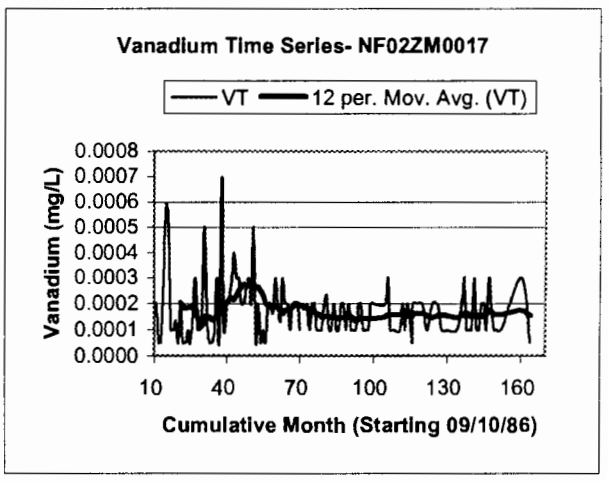

Molybdenum Time Series- NF02ZM0017
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00040
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

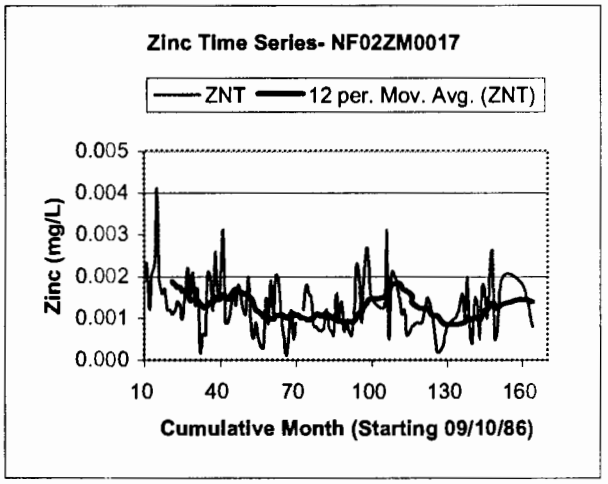

Selenium Time Series- NF02ZM0017
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)


Nickel Time Series- NF02ZM0017
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

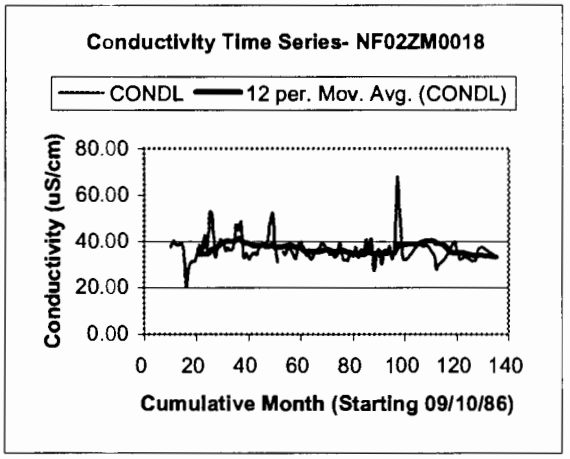

Strontium Time Series- NF02ZM0017
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

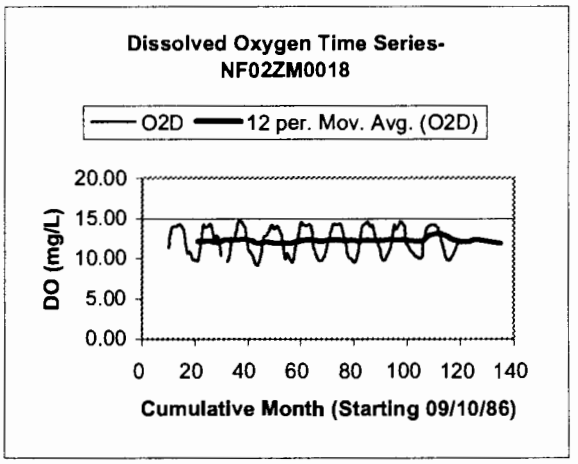

Lead Time Series- NF02ZM0017
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

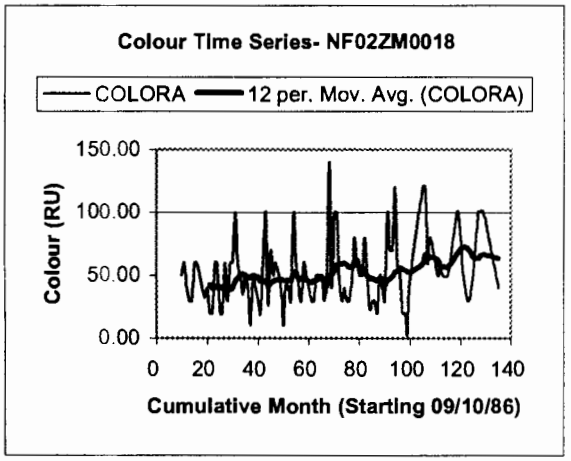

Vanadium Time Series- NF02ZM0017
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

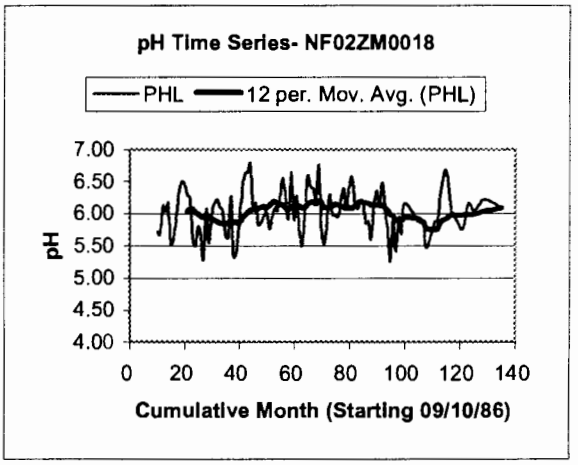

Zinc Time Series- NF02ZM0017
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 09/10/86)

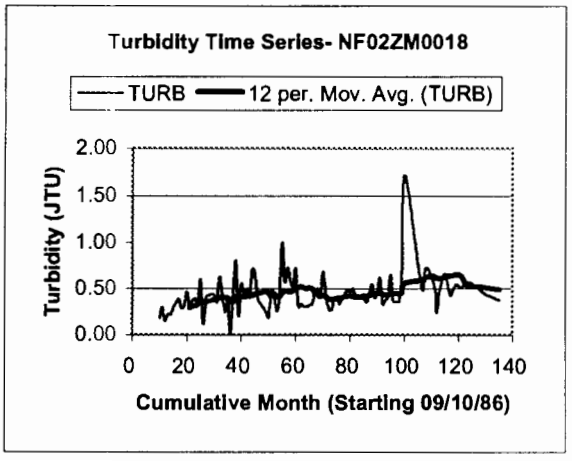
Time Series Plots of Mobile River- NF02ZM0018

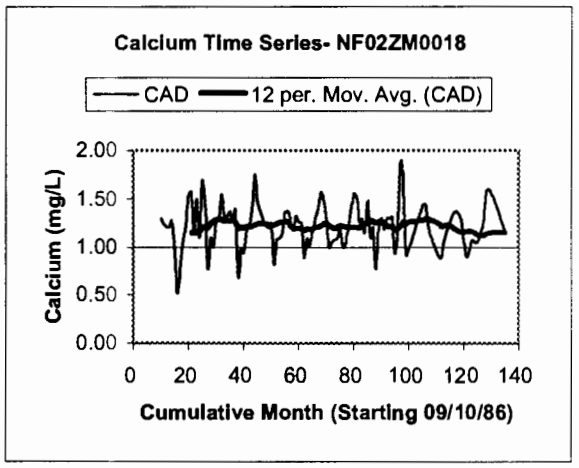


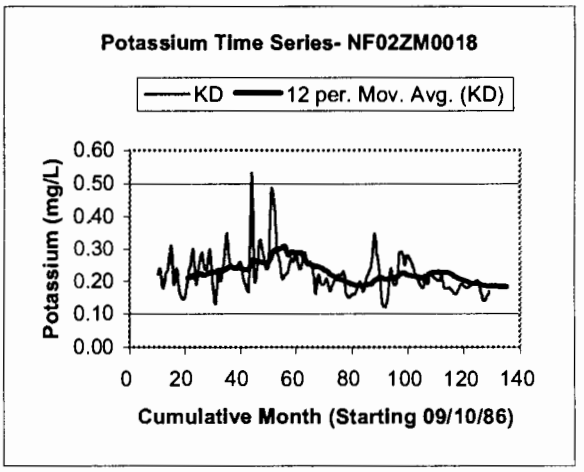


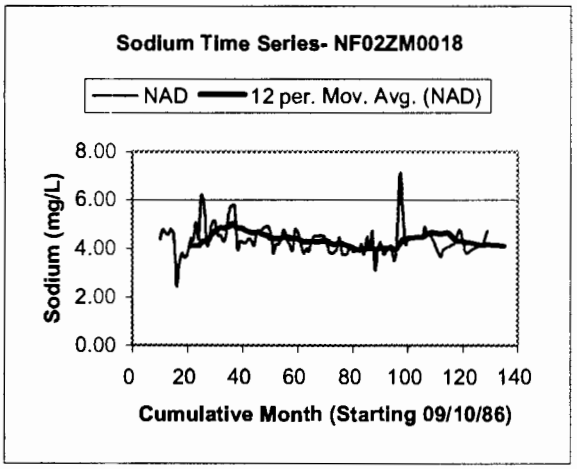


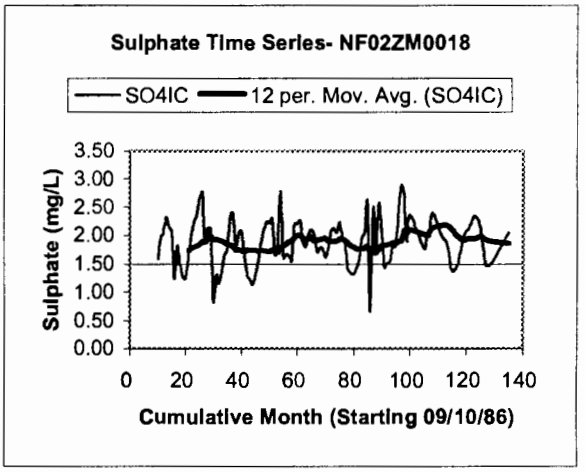


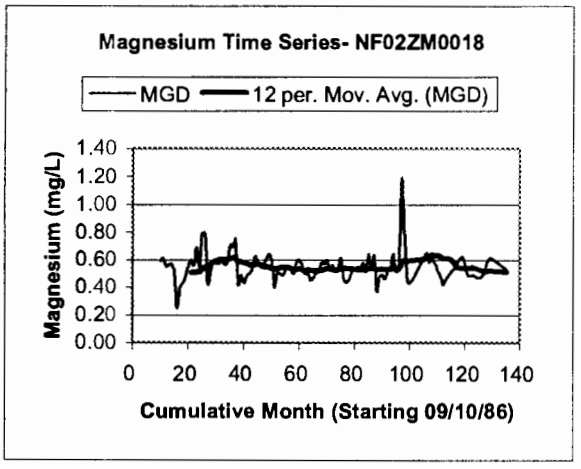


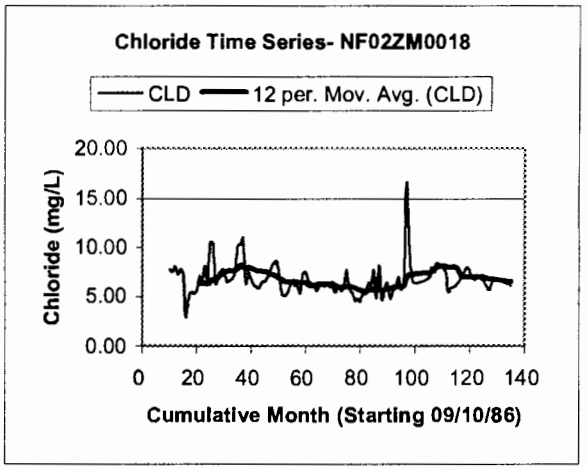

Calcium Time Series- NF02ZM0018
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

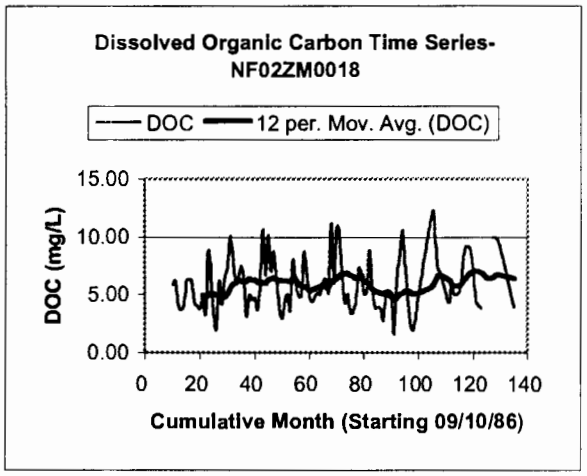

Potassium Time Series- NF02ZM0018
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

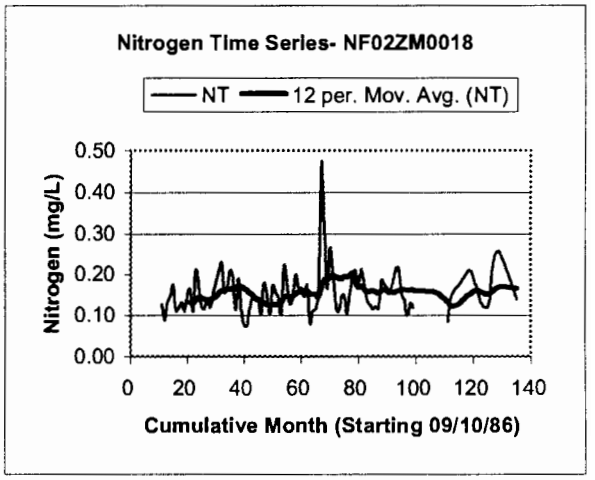

Sodium Time Series- NF02ZM0018
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

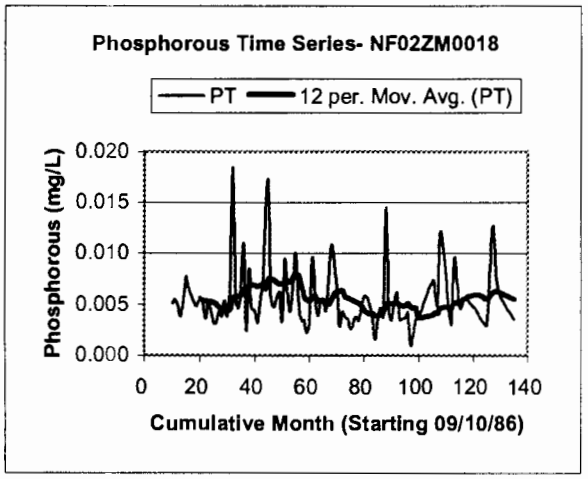

Sulphate Time Series- NF02ZM0018
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

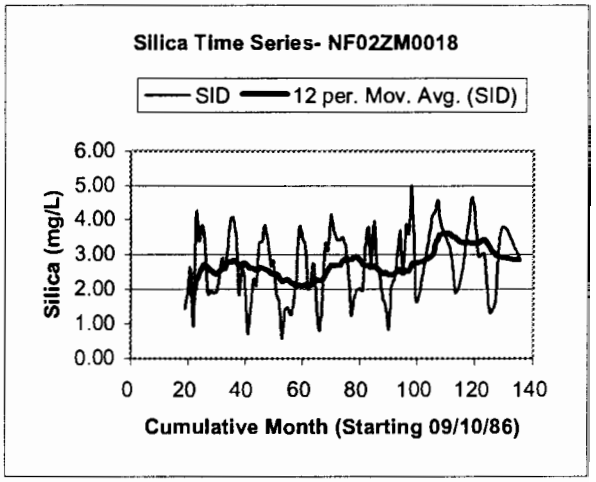

Magnesium Time Series- NF02ZM0018
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

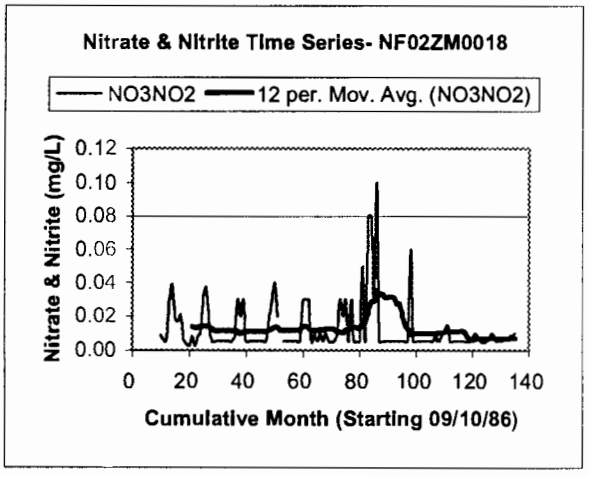

Chloride Time Series- NF02ZM0018
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

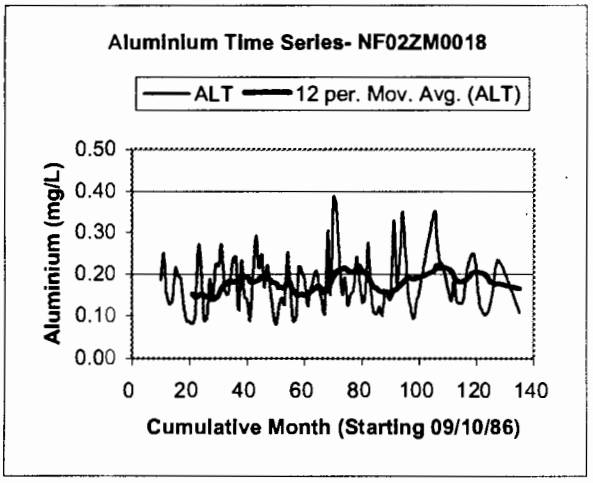

Dissolved Organic Carbon Time Series- NF02ZM0018
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

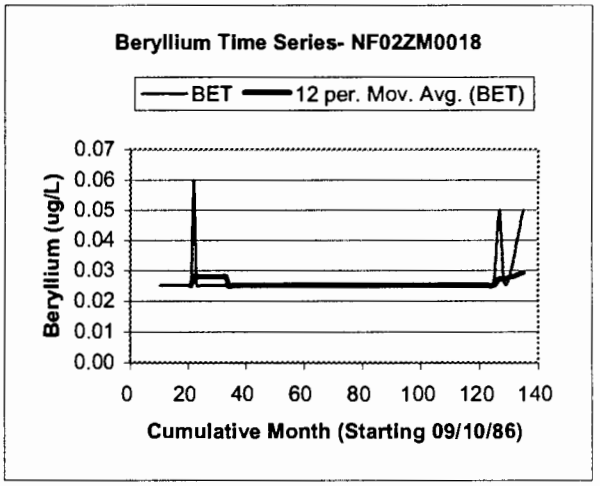

Nitrogen Time Series- NF02ZM0018
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

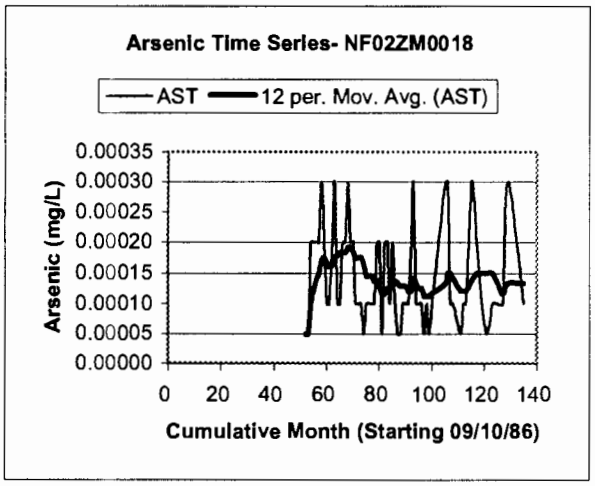

Phosphorous Time Series- NF02ZM0018
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

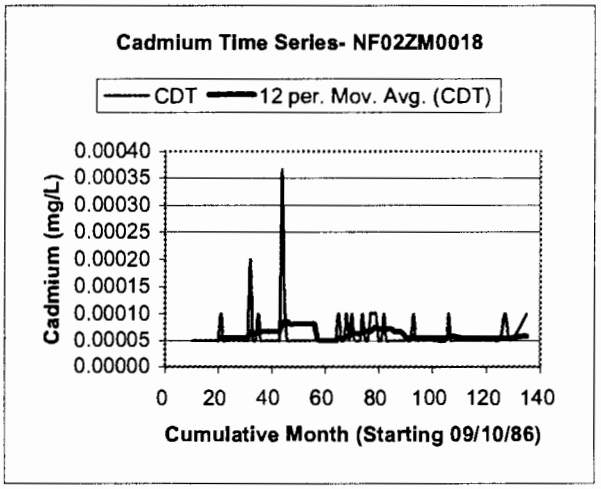

Silica Time Series- NF02ZM0018
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

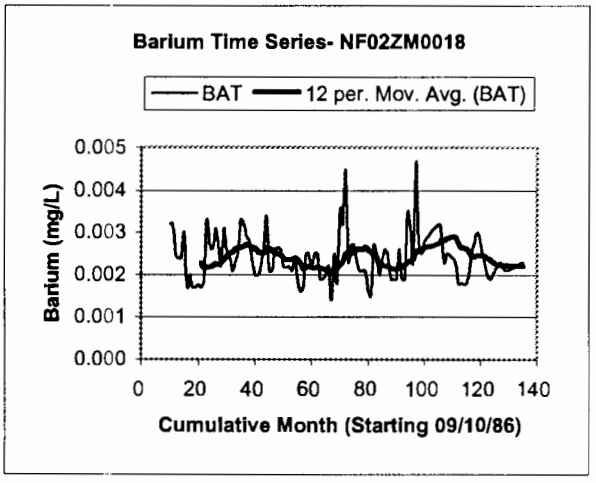

Nitrate & Nitrite Time Series- NF02ZM0018
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

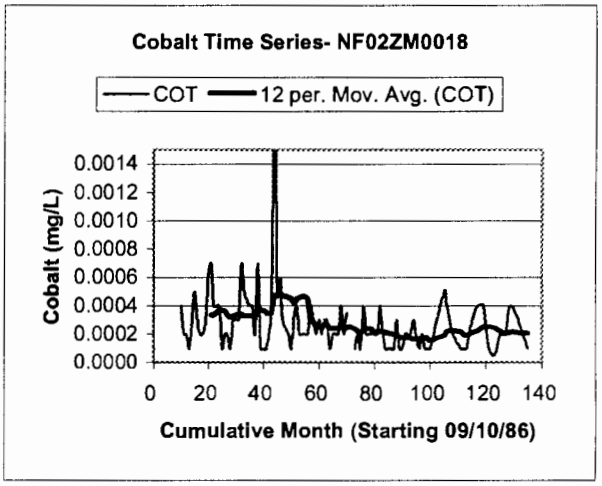

Aluminium Time Series- NF02ZM0018
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

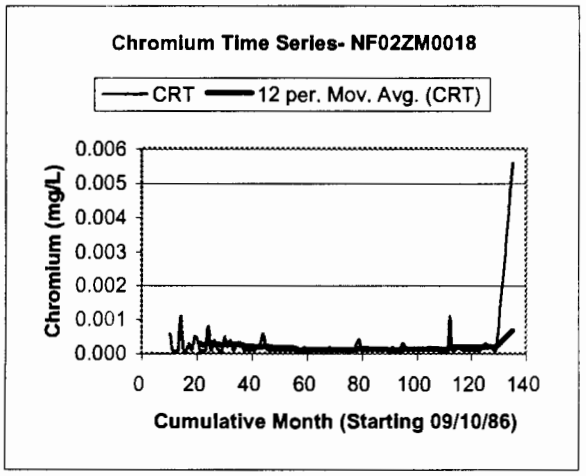

Beryllium Time Series- NF02ZM0018
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

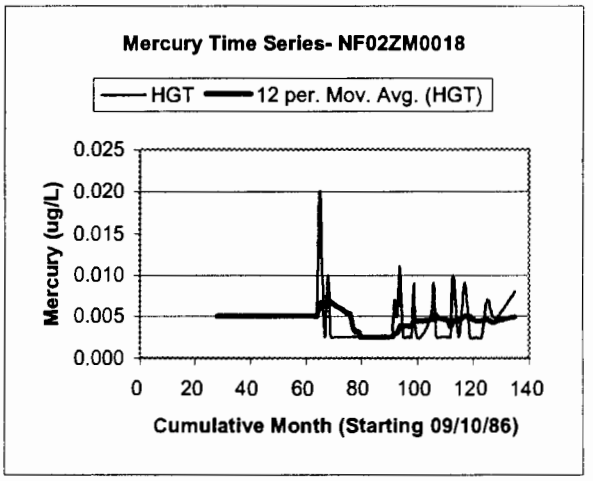

Arsenic Time Series- NF02ZM0018
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

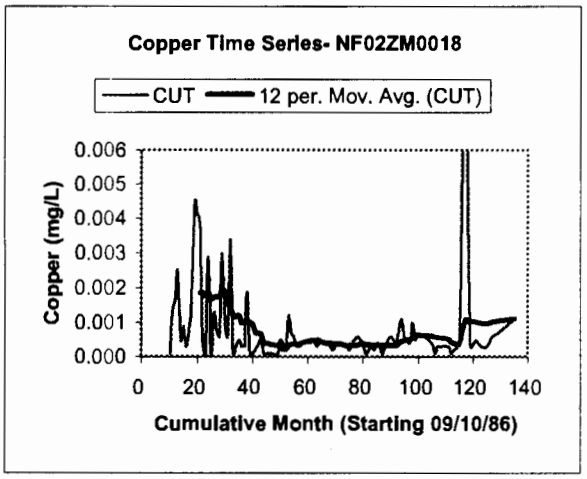

Cadmium Time Series- NF02ZM0018
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00040
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

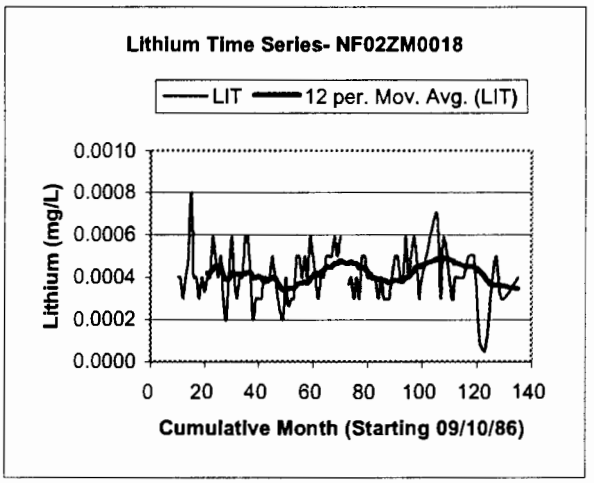

Barium Time Series- NF02ZM0018
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

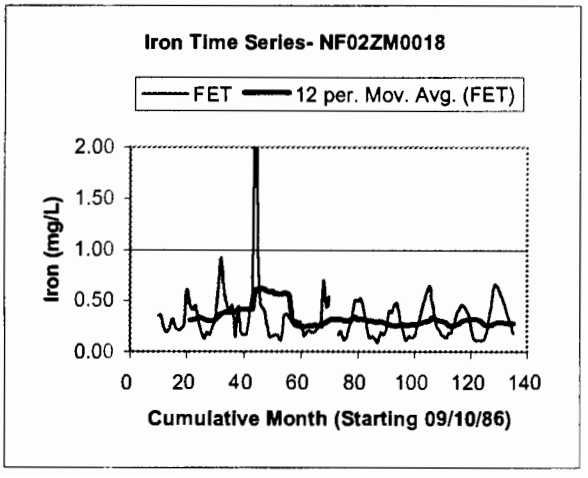

Cobalt Time Series- NF02ZM0018
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

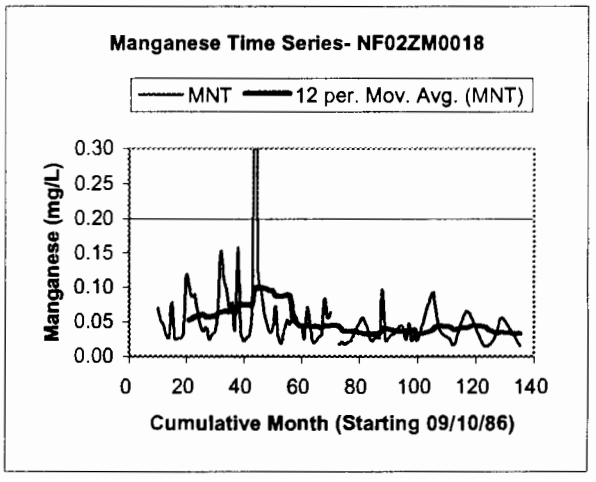

Chromium Time Series- NF02ZM0018
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

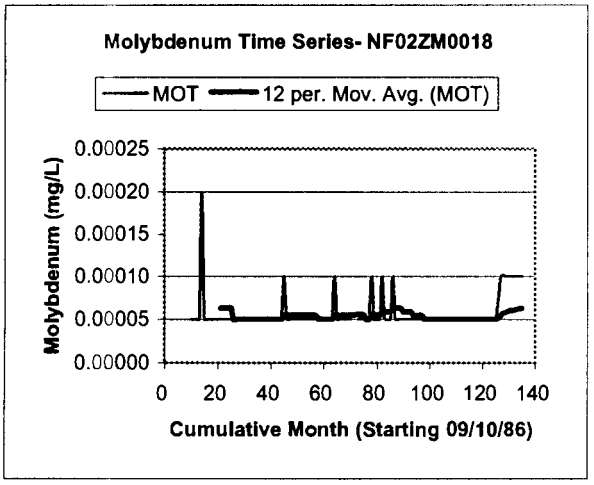

Mercury Time Series- NF02ZM0018
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

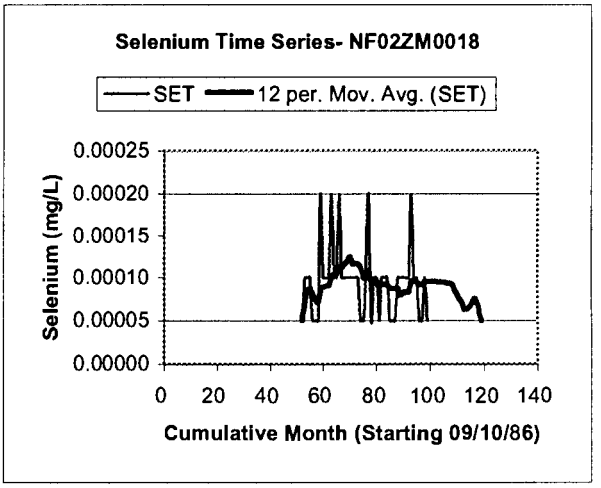

Copper Time Series- NF02ZM0018
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

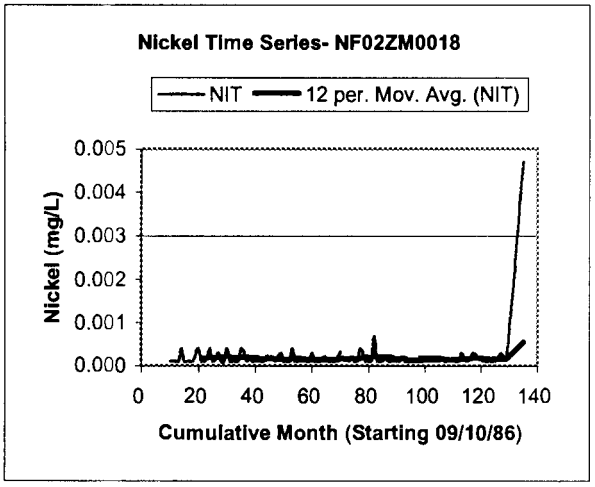

Lithium Time Series- NF02ZM0018
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

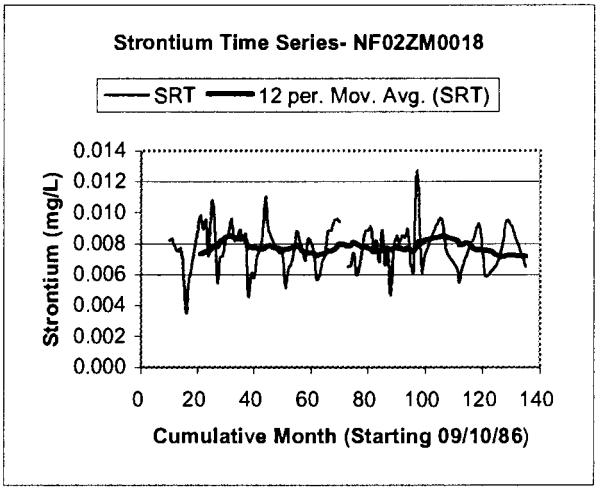

Iron Time Series- NF02ZM0018
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

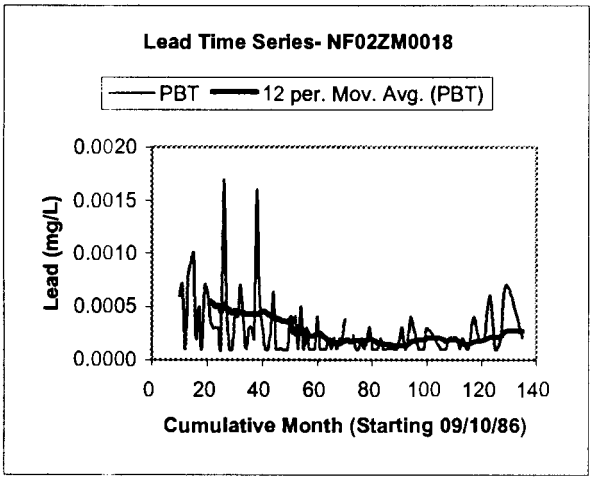

Manganese Time Series- NF02ZM0018
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

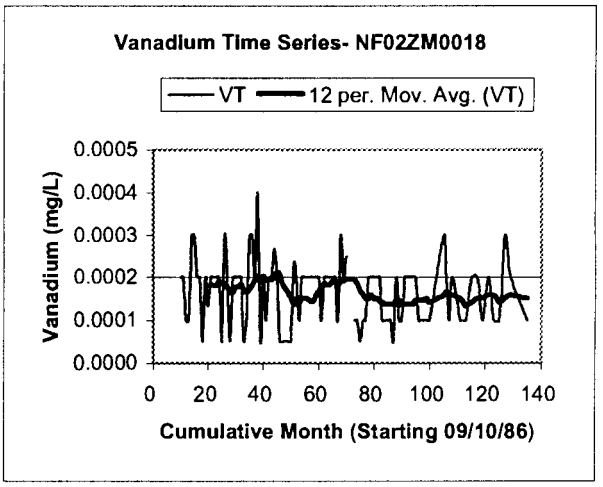

Molybdenum Time Series- NF02ZM0018
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

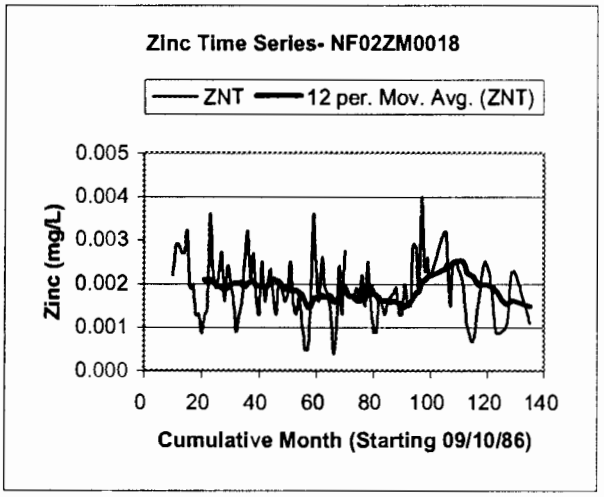

Selenium Time Series- NF02ZM0018
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)


Nickel Time Series- NF02ZM0018
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

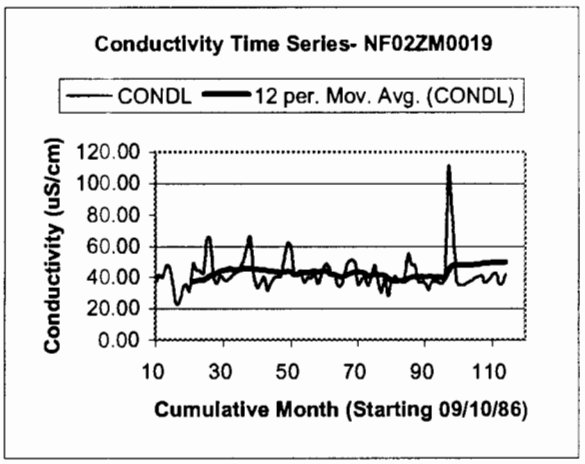

Strontium Time Series- NF02ZM0018
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

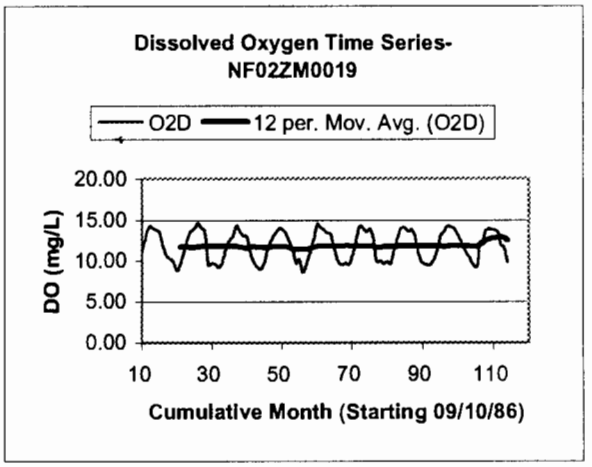

Lead Time Series- NF02ZM0018
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

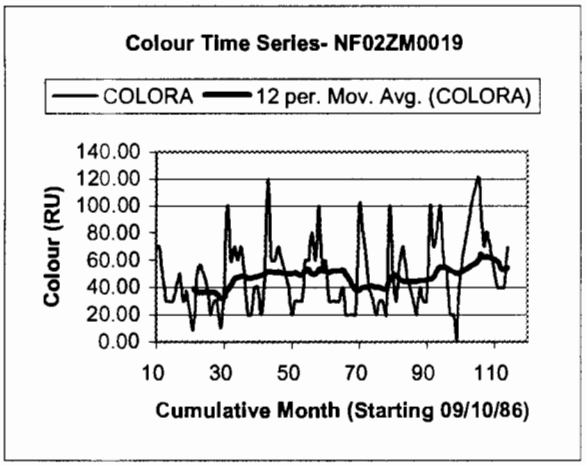

Vanadium Time Series- NF02ZM0018
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 09/10/86)

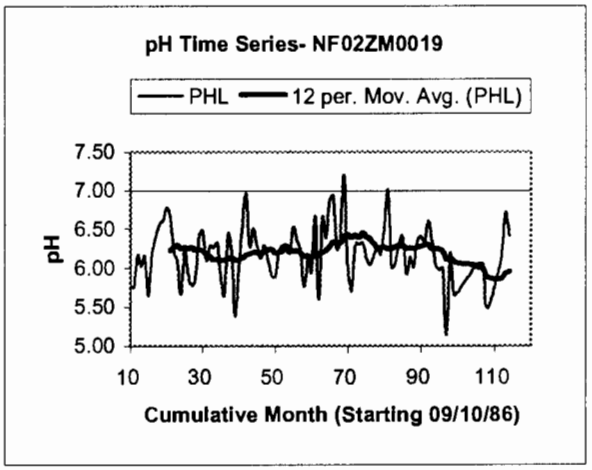

Zinc Time Series- NF02ZM0018
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 09/10/86)

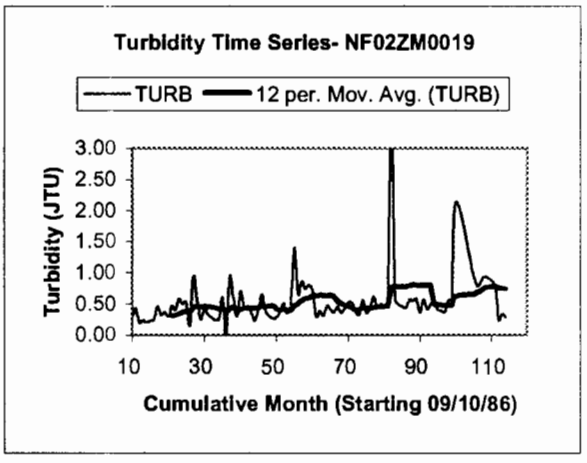
Time Series Plots of Seal Cove River- NF02ZM0019

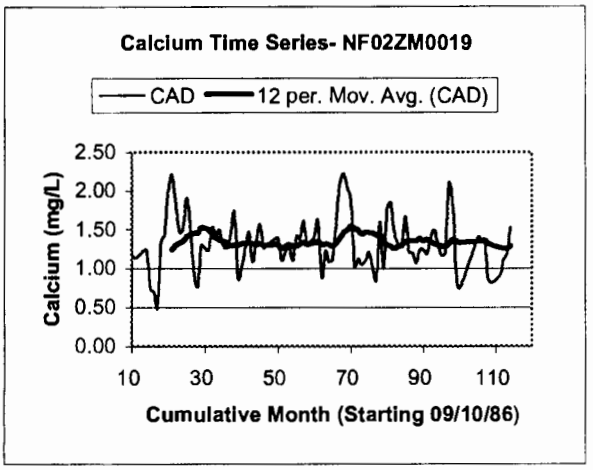


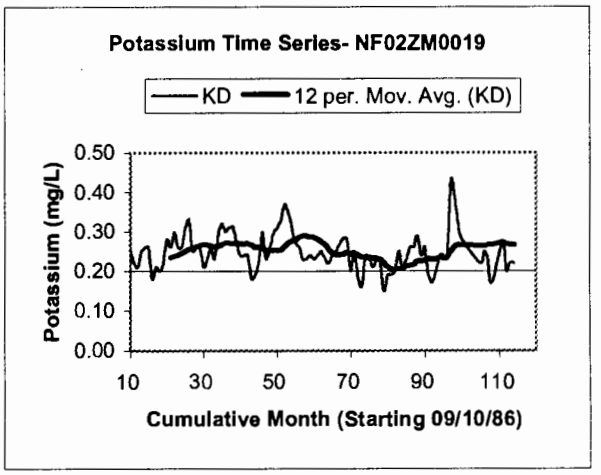


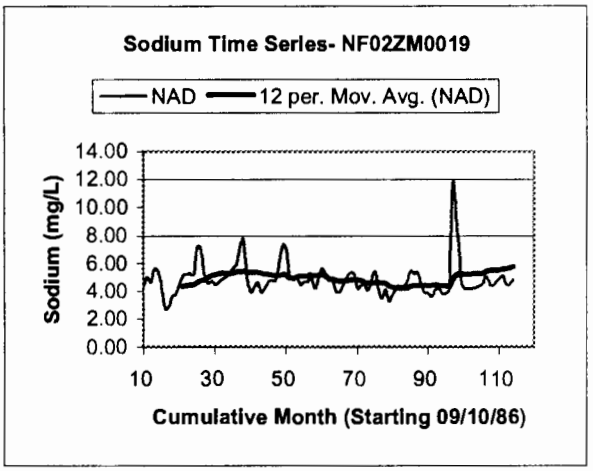


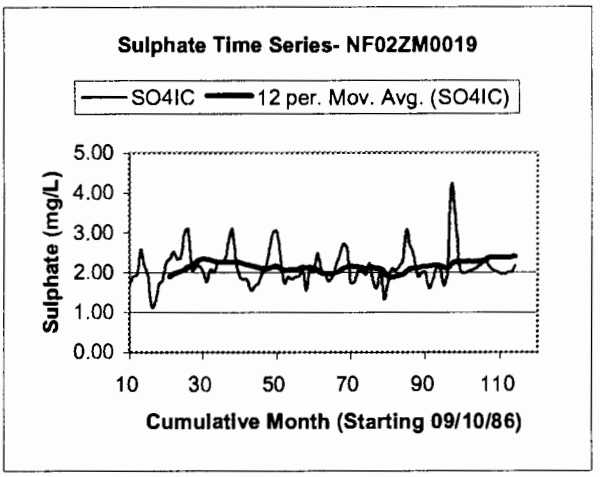


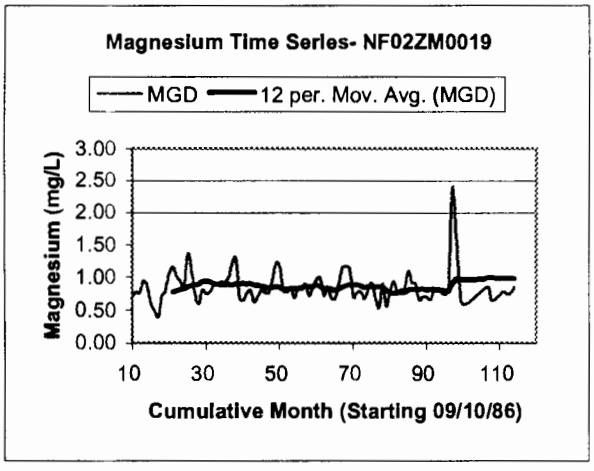


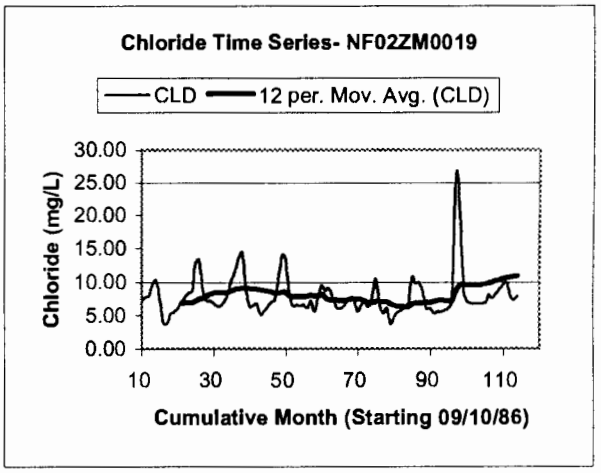

Calcium Time Series- NF02ZM0019
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

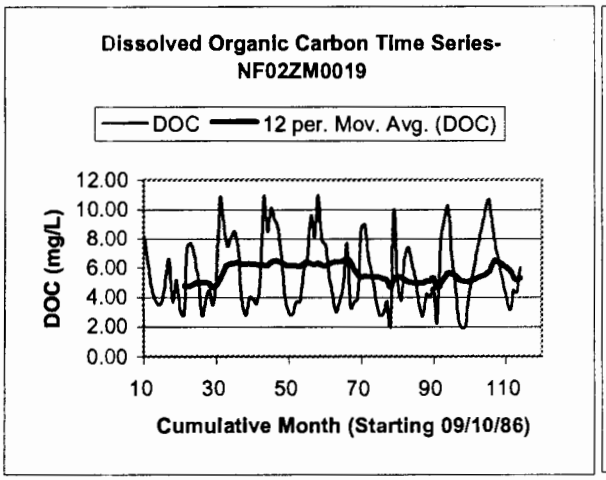

Potassium Time Series- NF02ZM0019
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

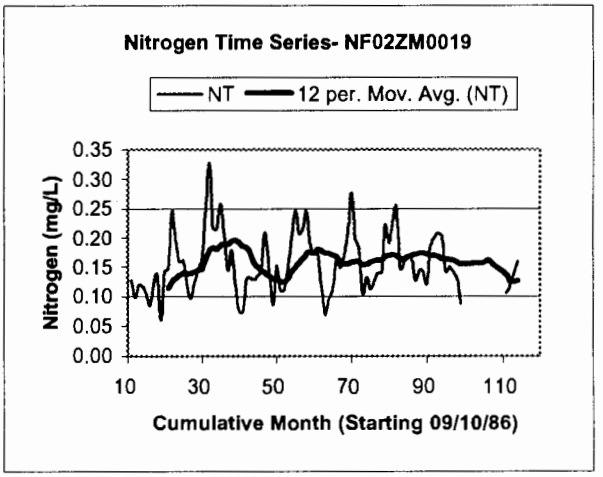

Sodium Time Series- NF02ZM0019
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

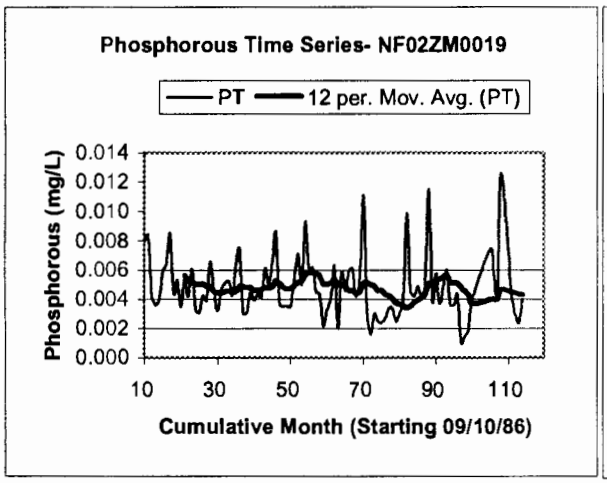

Sulphate Time Series- NF02ZM0019
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

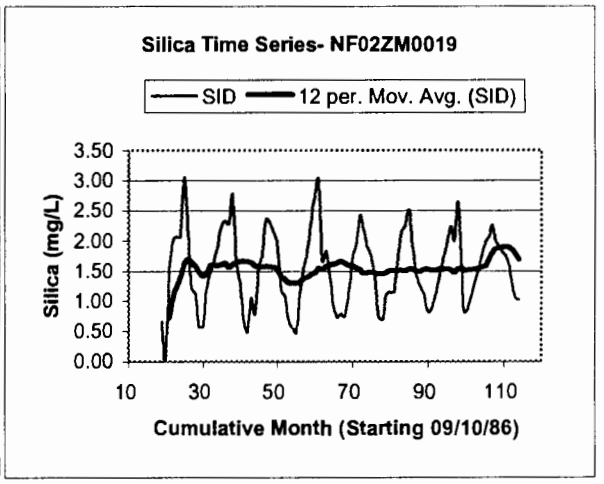

Magnesium Time Series- NF02ZM0019
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

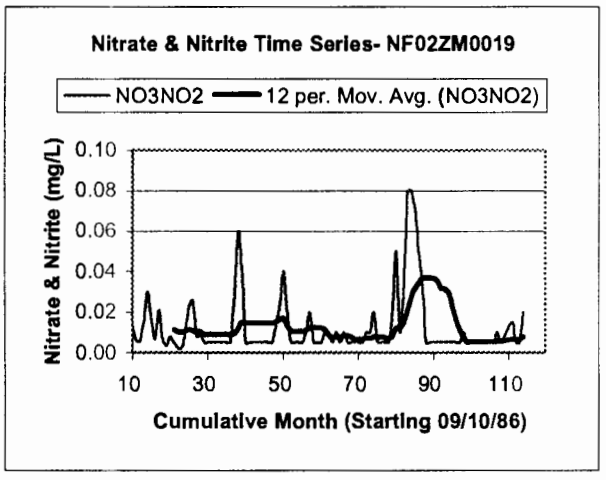

Chloride Time Series- NF02ZM0019
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

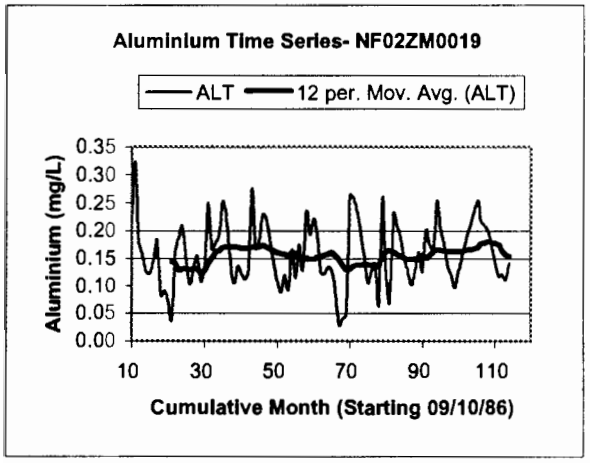

Dissolved Organic Carbon Time Series- NF02ZM0019
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

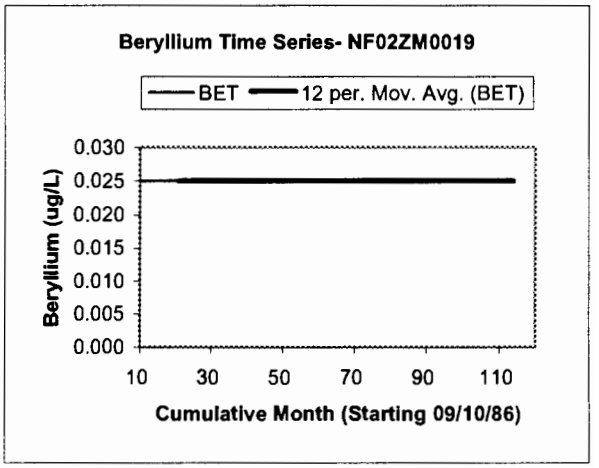

Nitrogen Time Series- NF02ZM0019
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

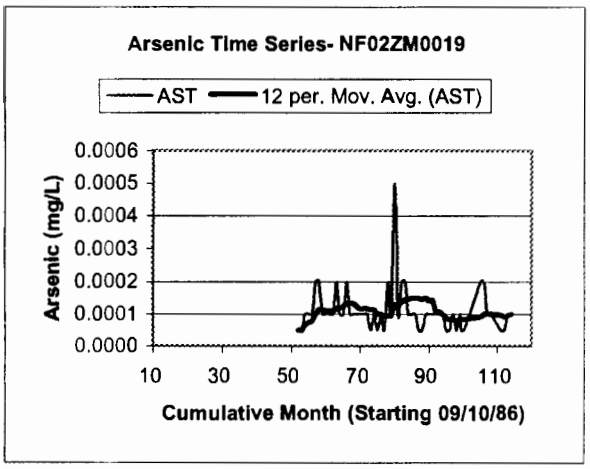

Phosphorous Time Series- NF02ZM0019
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

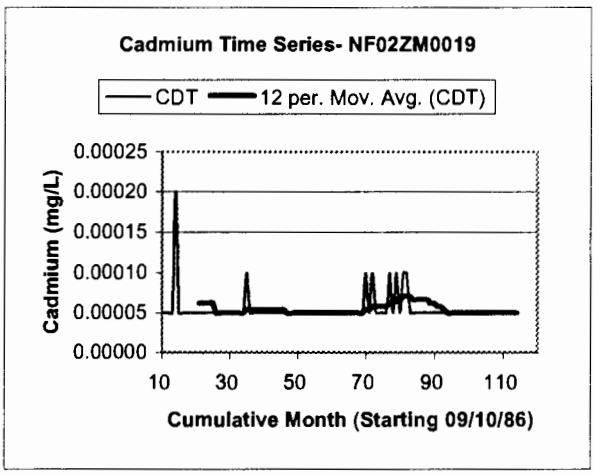

Silica Time Series- NF02ZM0019
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

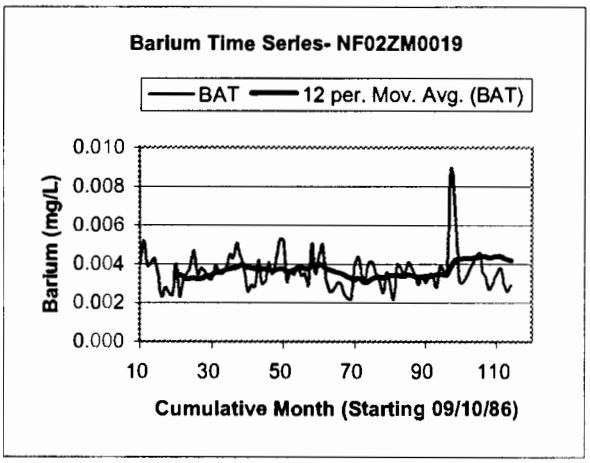

Nitrate & Nitrite Time Series- NF02ZM0019
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

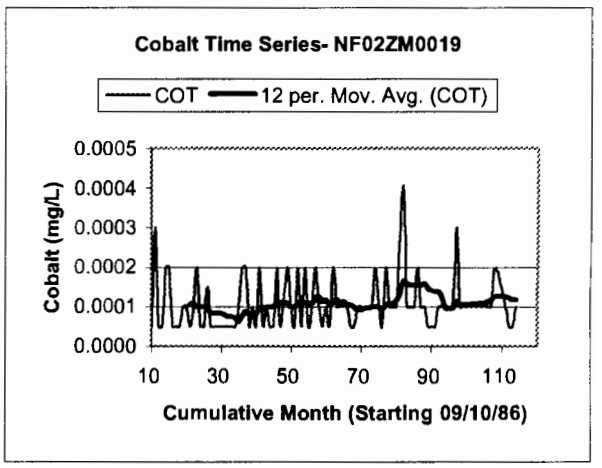

Aluminium Time Series- NF02ZM0019
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

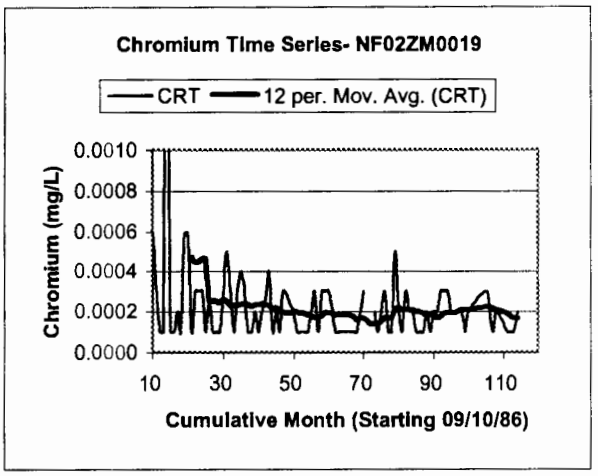

Beryllium Time Series- NF02ZM0019
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

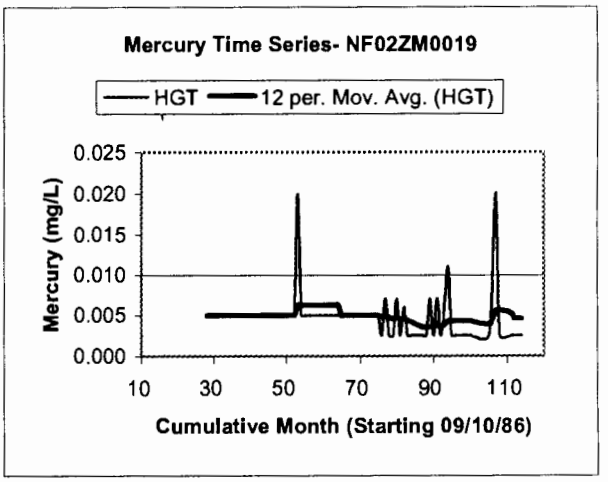

Arsenic Time Series- NF02ZM0019
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

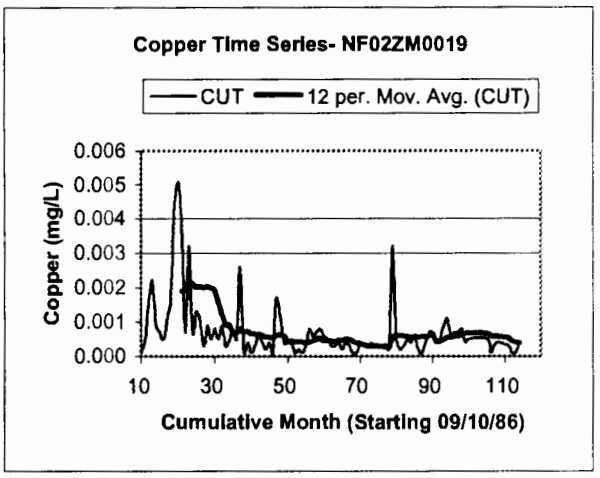

Cadmium Time Series- NF02ZM0019
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

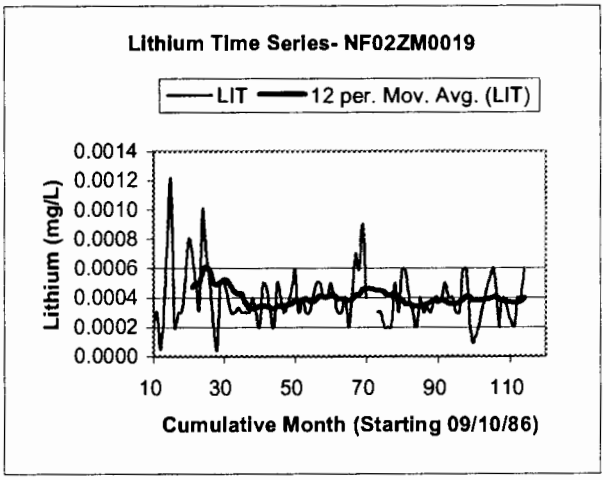

Barium Time Series- NF02ZM0019
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

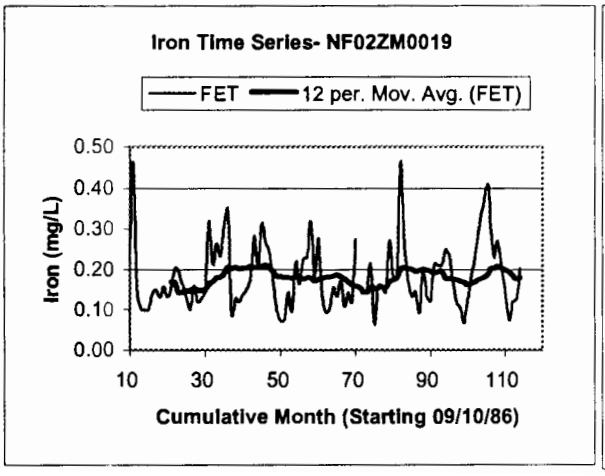

Cobalt Time Series- NF02ZM0019
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

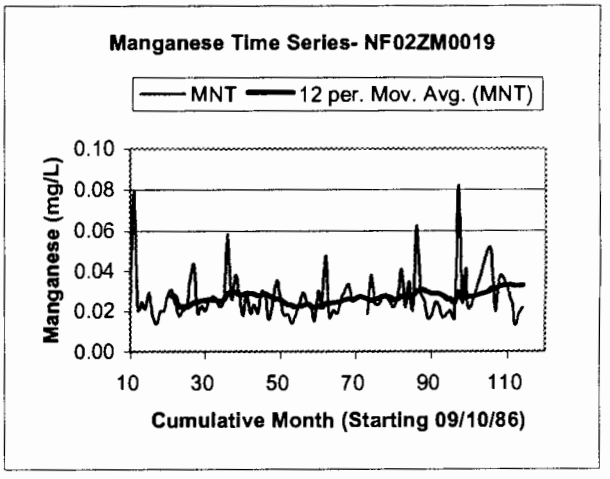

Chromium Time Series- NF02ZM0019
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

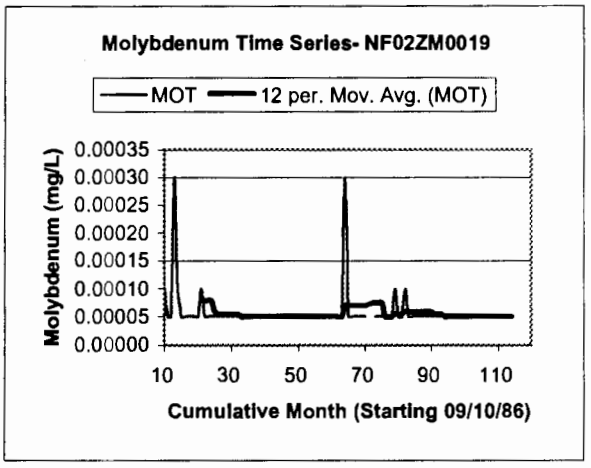

Mercury Time Series- NF02ZM0019
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

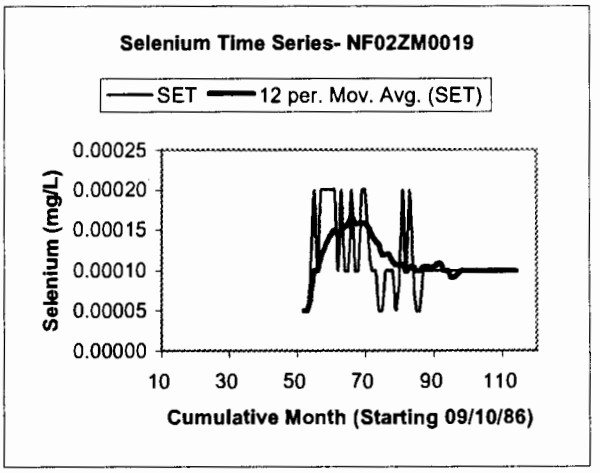

Copper Time Series- NF02ZM0019
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

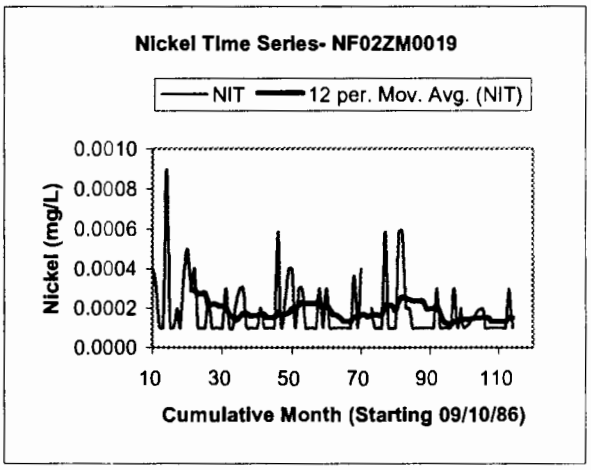

Lithium Time Series- NF02ZM0019
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

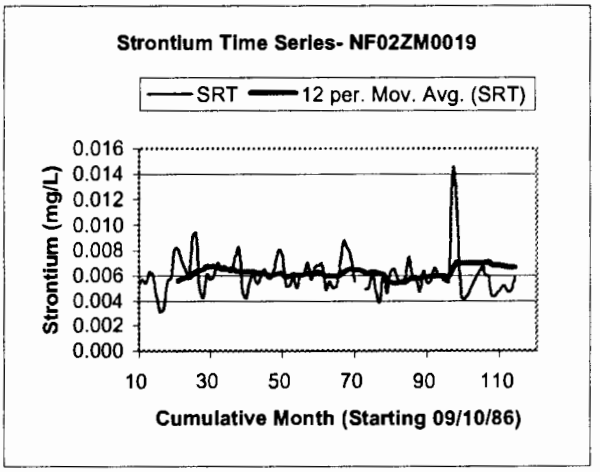

Iron Time Series- NF02ZM0019
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

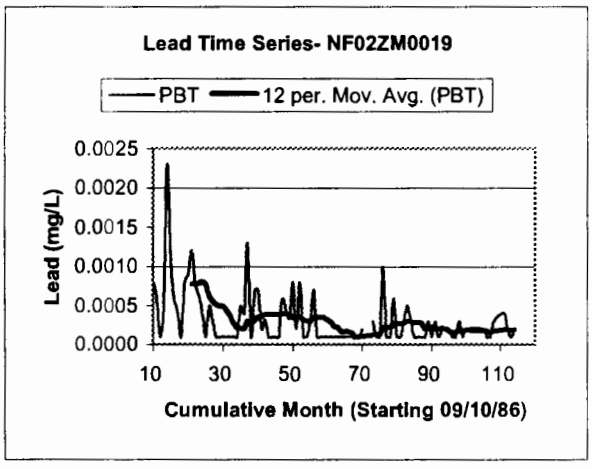

Manganese Time Series- NF02ZM0019
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

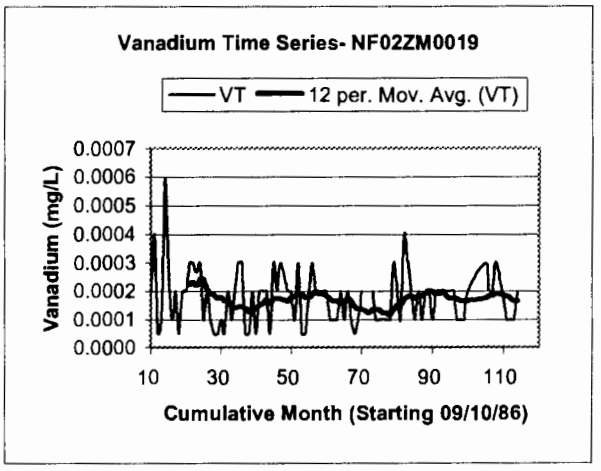

Molybdenum Time Series- NF02ZM0019
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)

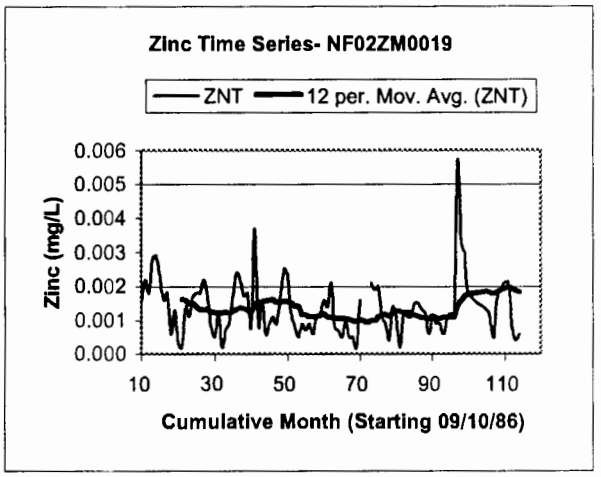

Selenium Time Series- NF02ZM0019
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)


Nickel Time Series- NF02ZM0019
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)

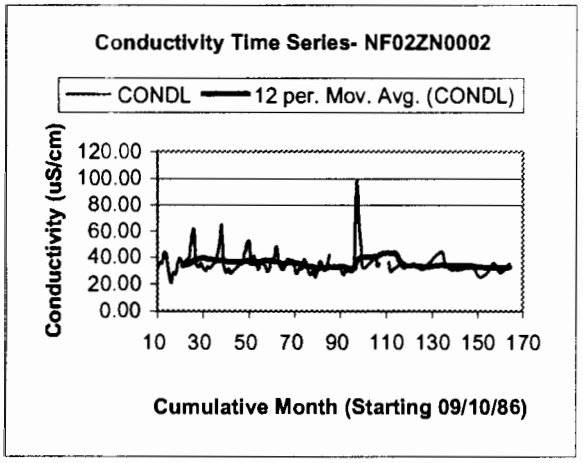

Strontium Time Series- NF02ZM0019
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)

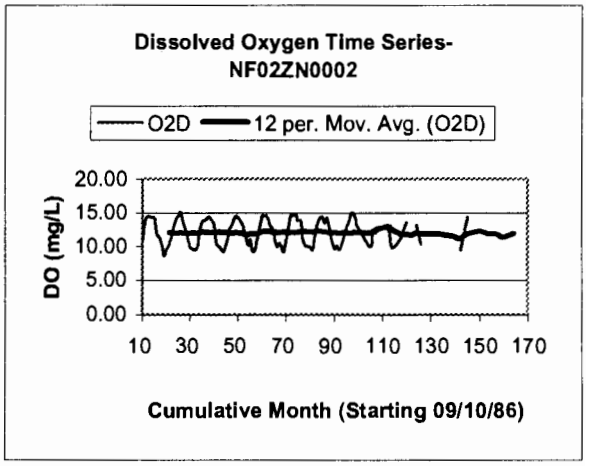

Lead Time Series- NF02ZM0019
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)

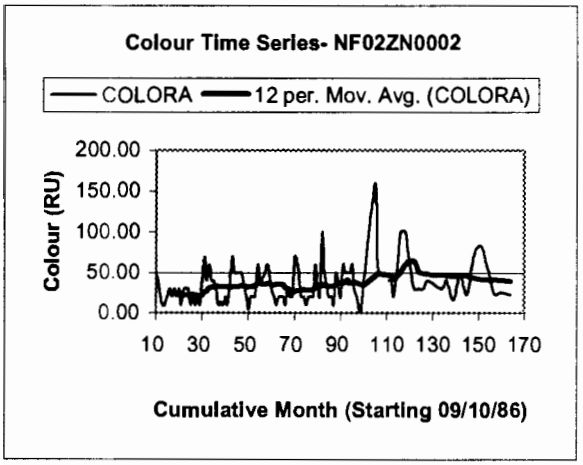

Vanadium Time Series- NF02ZM0019
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10 30 50 70 90 110
Cumulative Month (Starting 09/10/86)

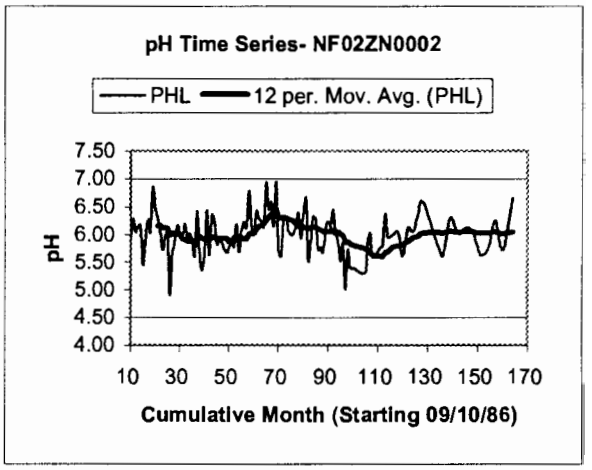

Zinc Time Series- NF02ZM0019
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
30
50
70
90
110
Cumulative Month (Starting 09/10/86)

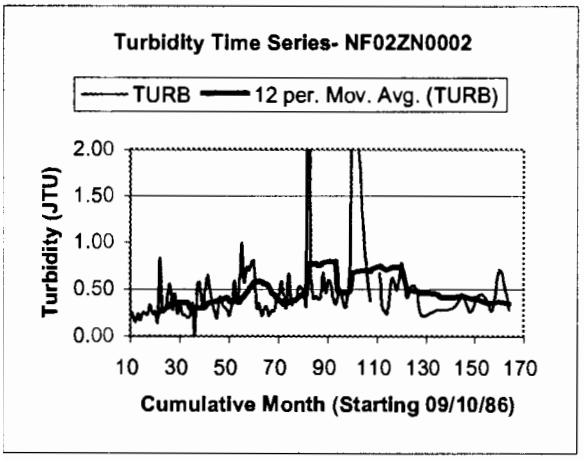
Time Series Plots of Northwest Brook- NF02ZN0002

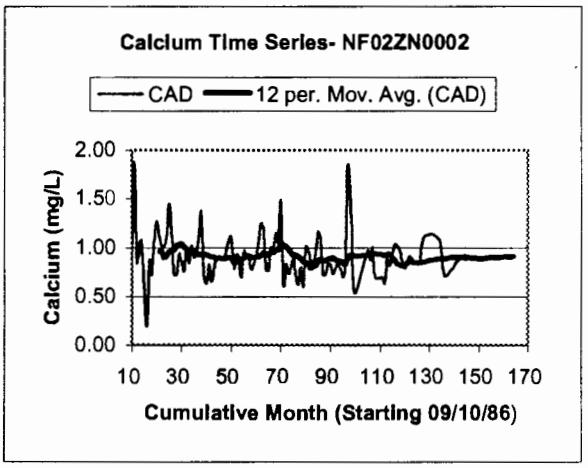


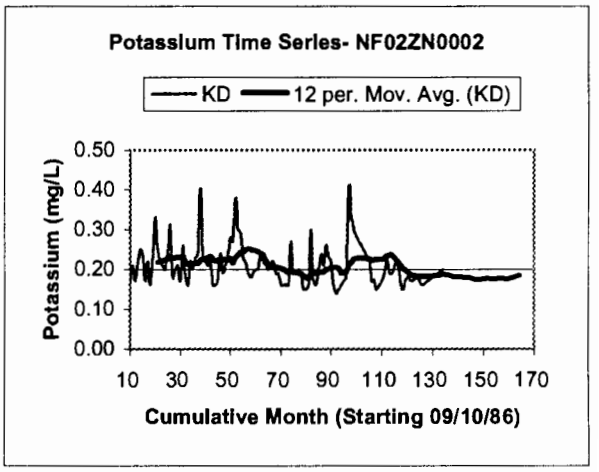


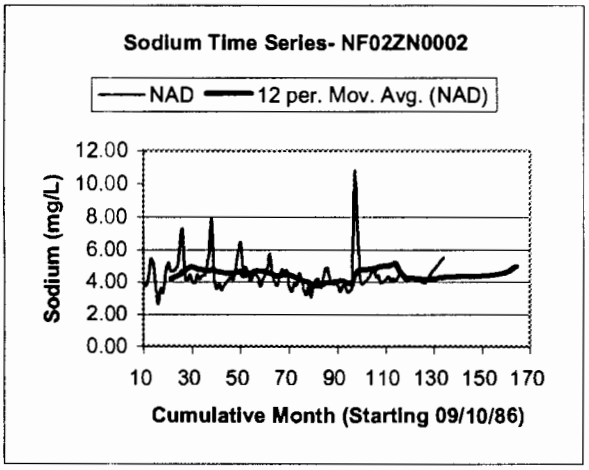


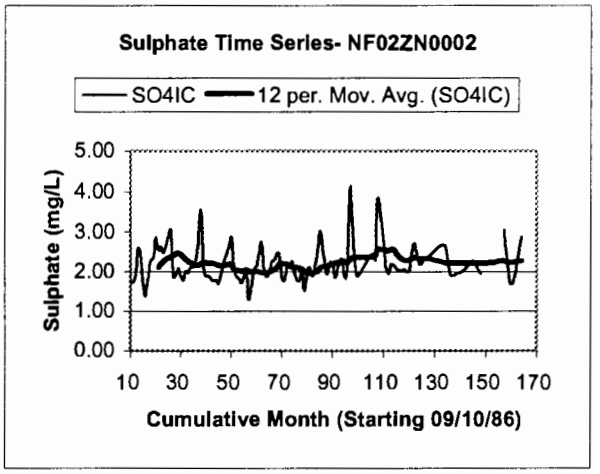


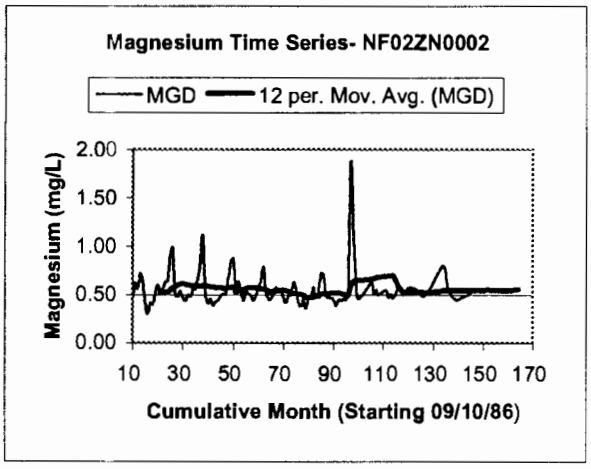


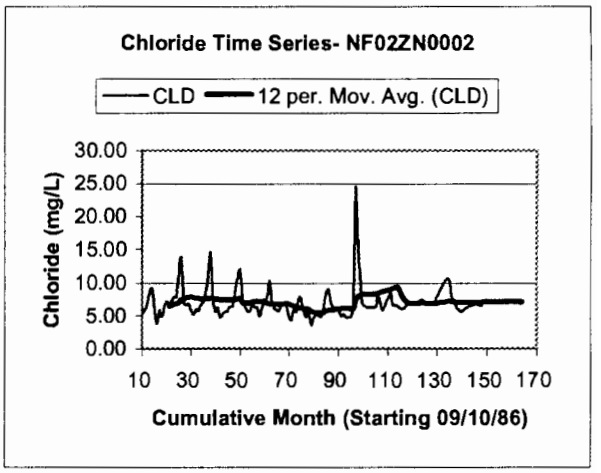

Calcium Time Series- NF02ZN0002
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.50
1.00
0.50
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

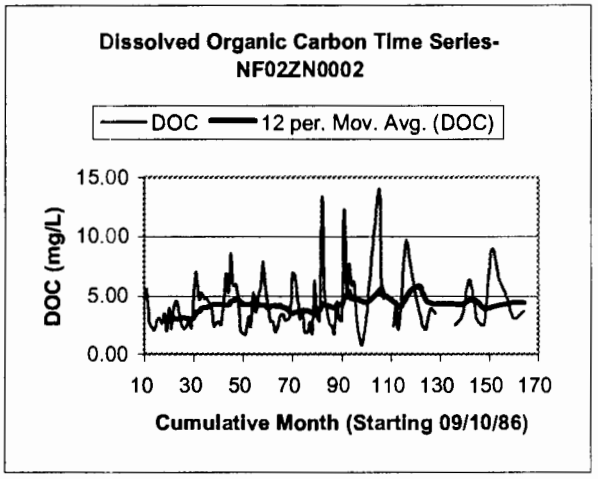

Potassium Time Series- NF02ZN0002
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

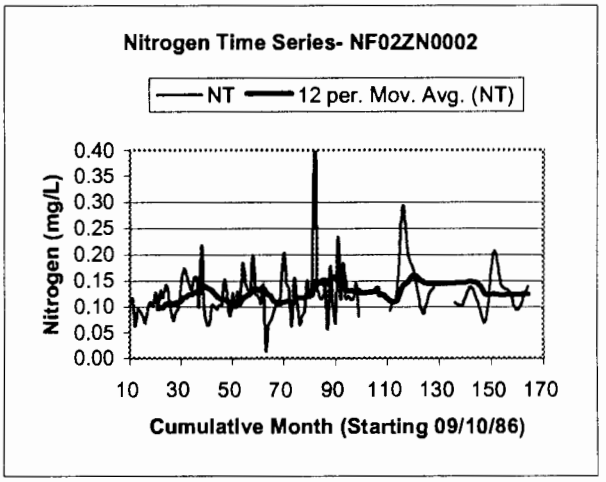

Sodium Time Series- NF02ZN0002
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

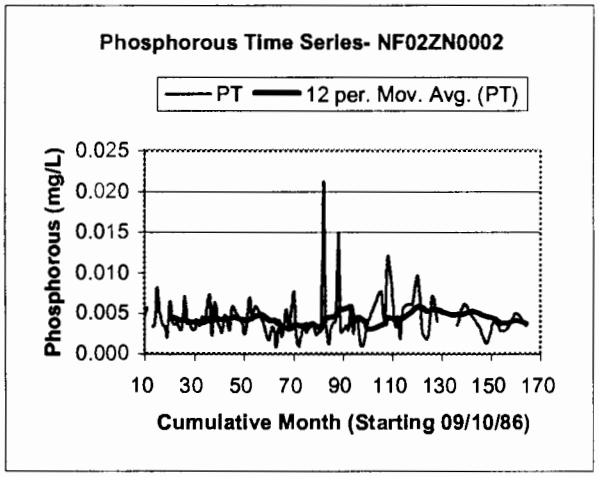

Sulphate Time Series- NF02ZN0002
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

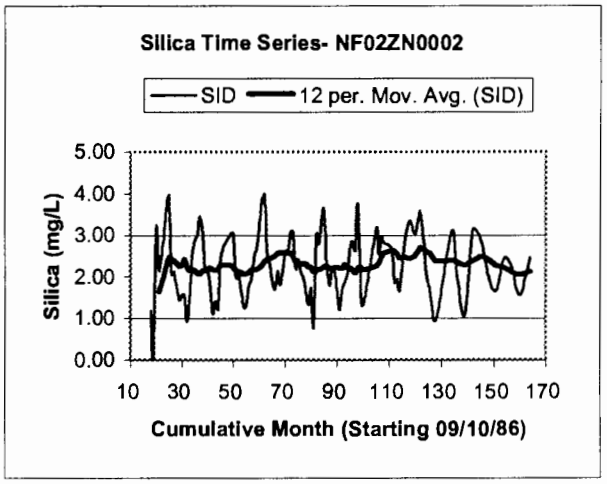

Magnesium Time Series- NF02ZN0002
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

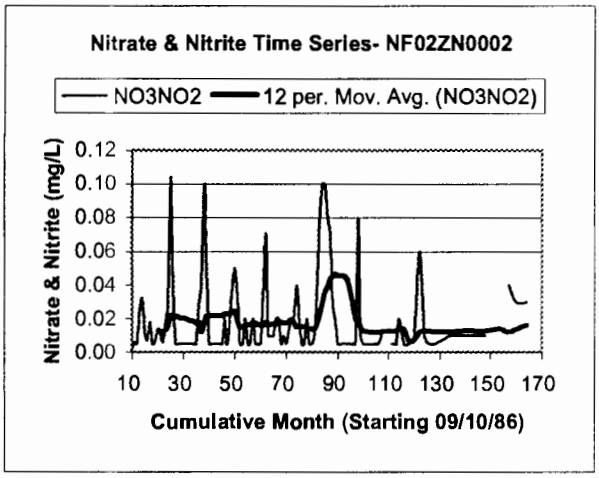

Chloride Time Series- NF02ZN0002
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

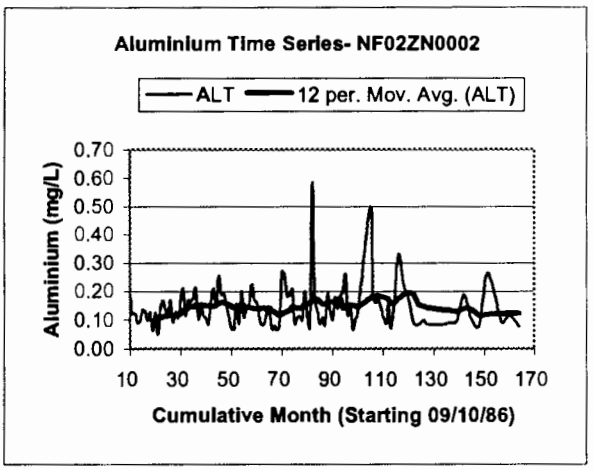

Dissolved Organic Carbon Time Series- NF02ZN0002
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

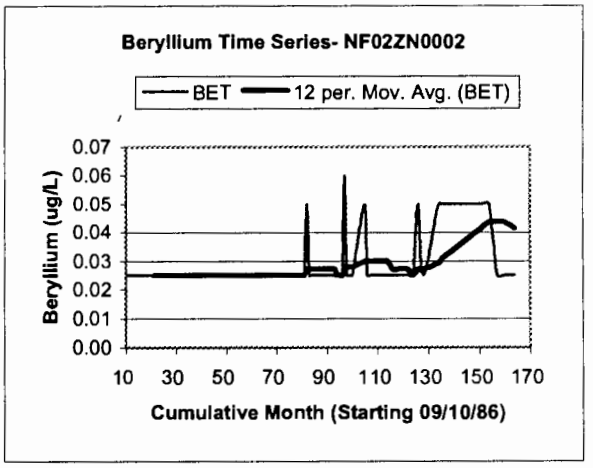

Nitrogen Time Series- NF02ZN0002
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

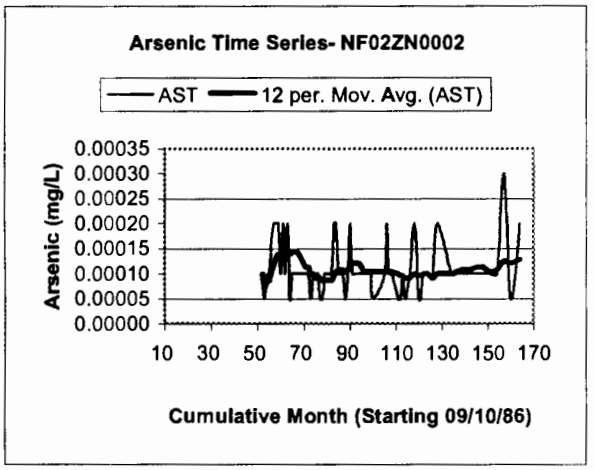

Phosphorous Time Series- NF02ZN0002
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

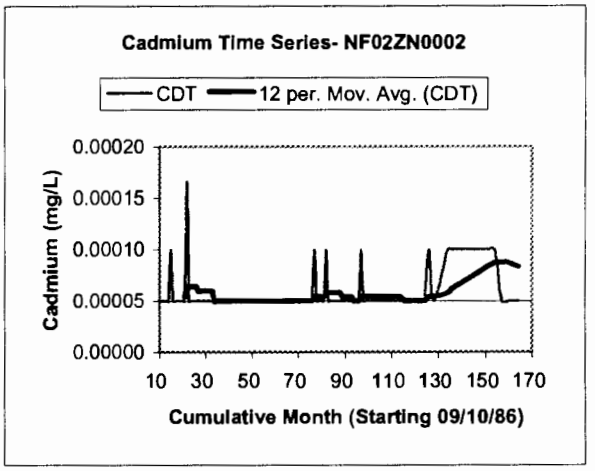

Silica Time Series- NF02ZN0002
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

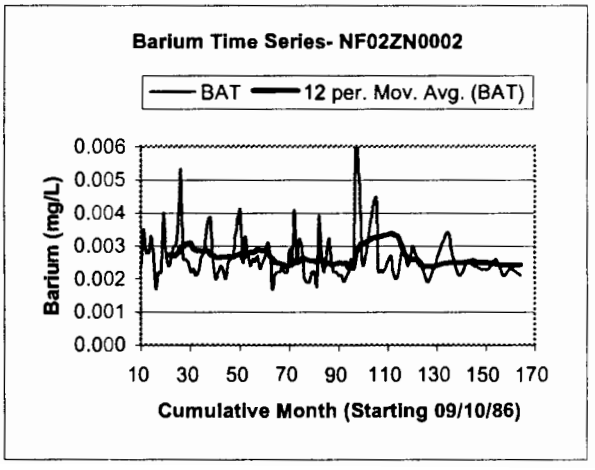

Nitrate & Nitrite Time Series- NF02ZN0002
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

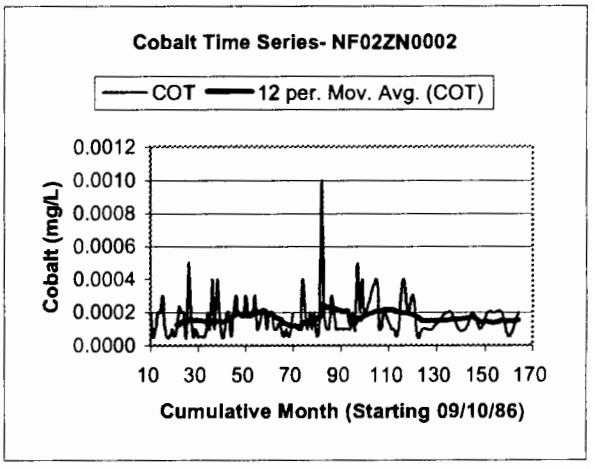

Aluminium Time Series- NF02ZN0002
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

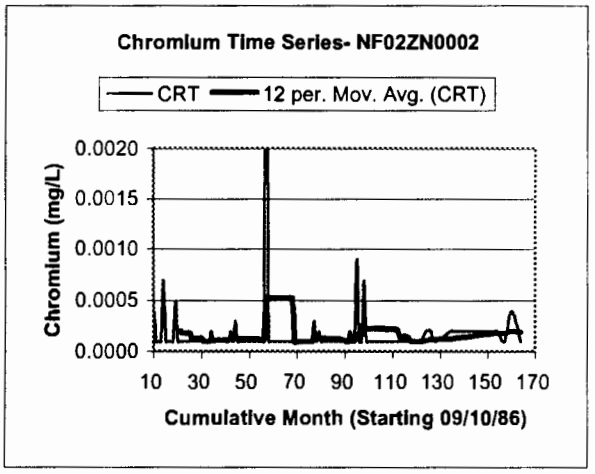

Beryllium Time Series- NF02ZN0002
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

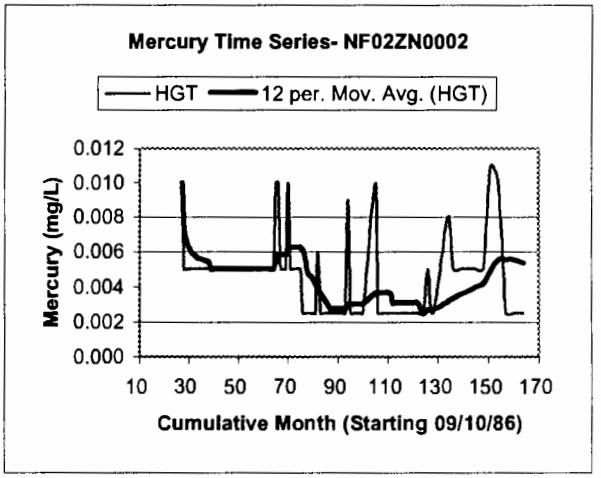

Arsenic Time Series- NF02ZN0002
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

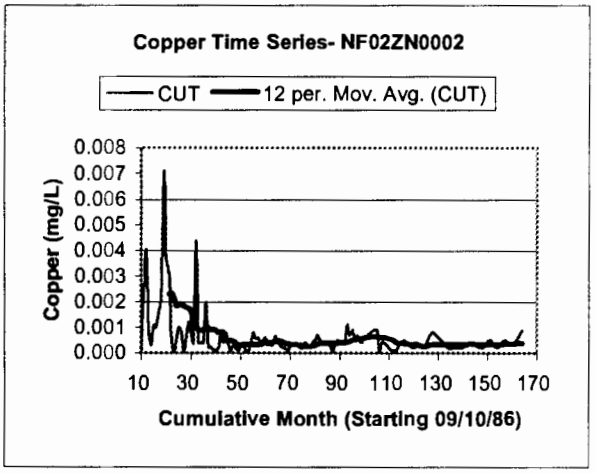

Cadmium Time Series- NF02ZN0002
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

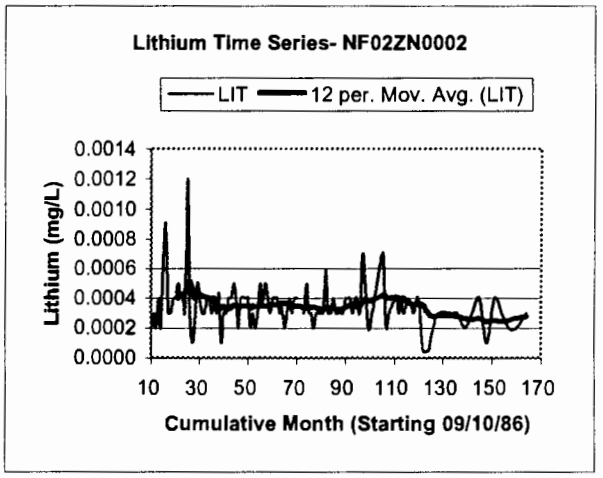

Barium Time Series- NF02ZN0002
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

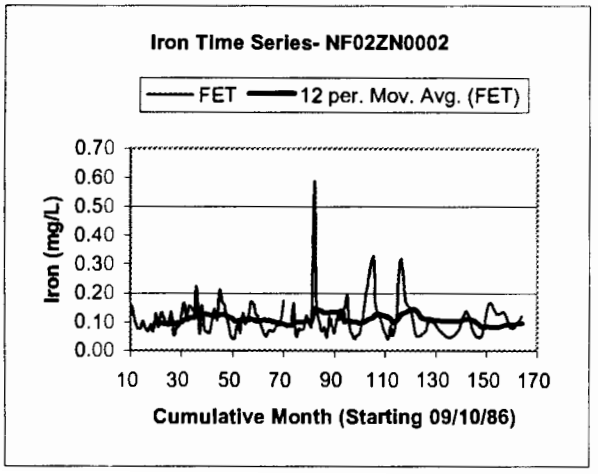

Cobalt Time Series- NF02ZN0002
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

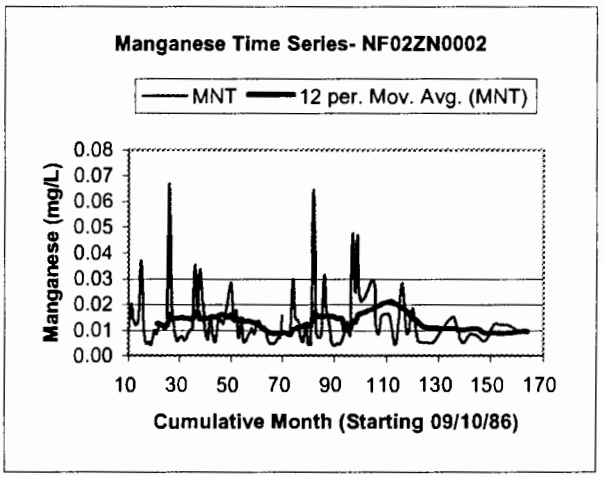

Chromium Time Series- NF02ZN0002
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

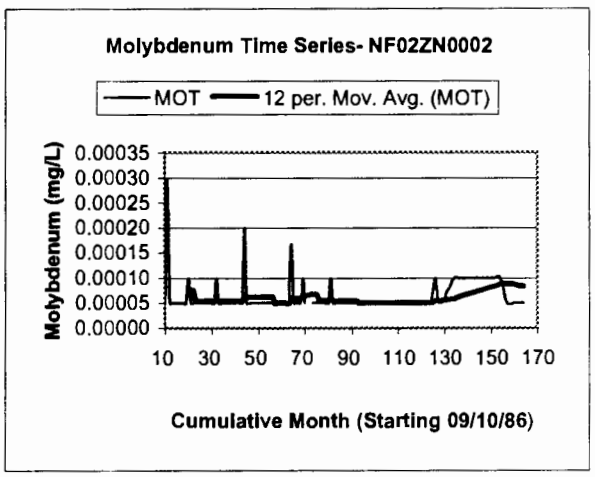

Mercury Time Series- NF02ZN0002
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

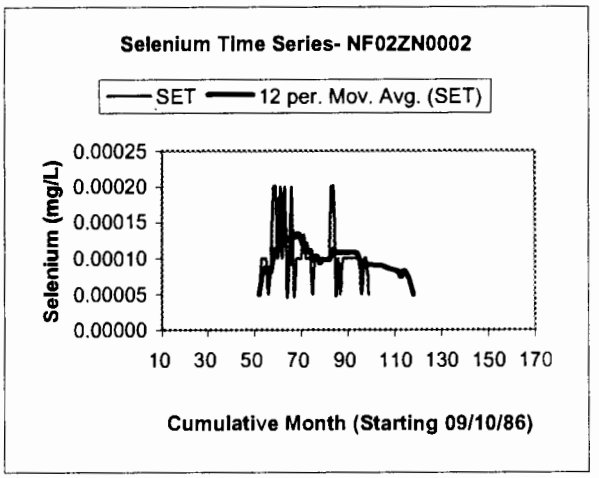

Copper Time Series- NF02ZN0002
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

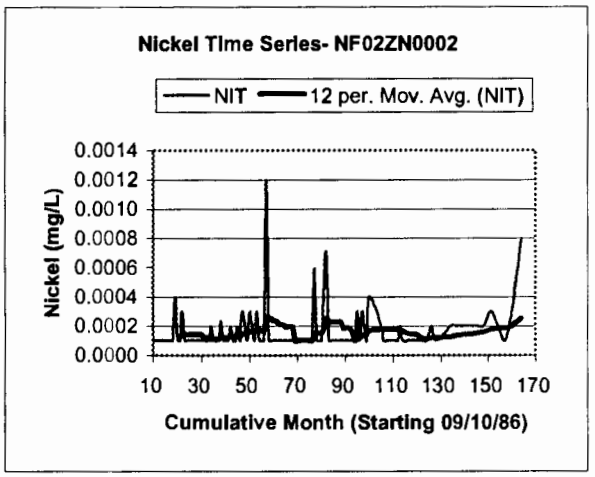

Lithium Time Series- NF02ZN0002
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

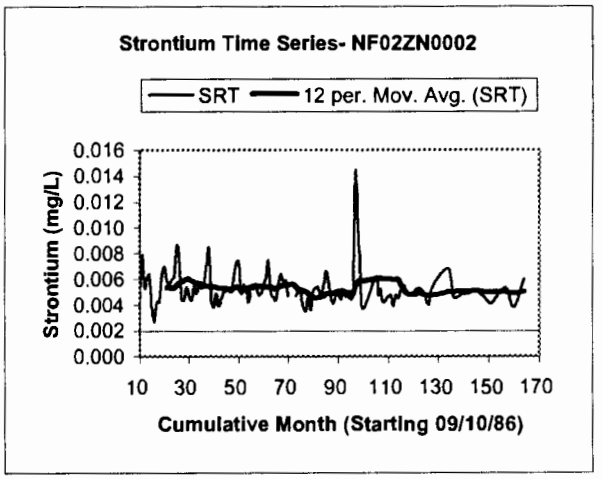

Iron Time Series- NF02ZN0002
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

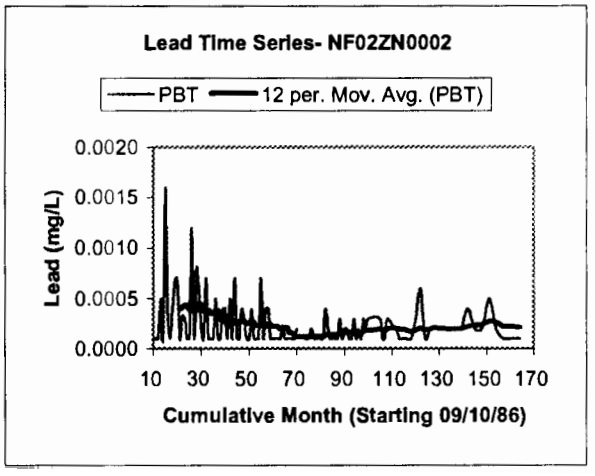

Manganese Time Series- NF02ZN0002
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

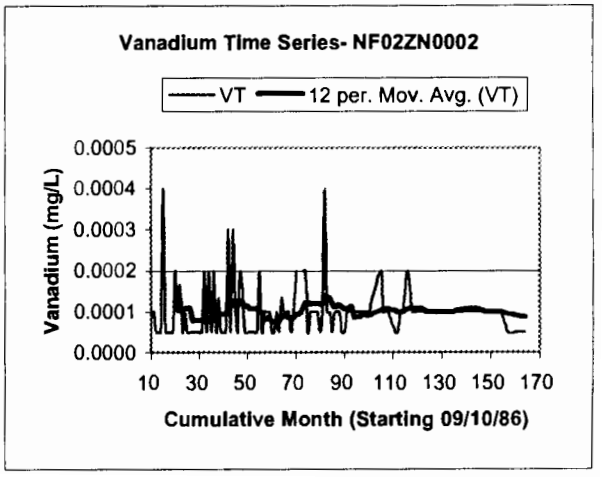

Molybdenum Time Series- NF02ZN0002
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

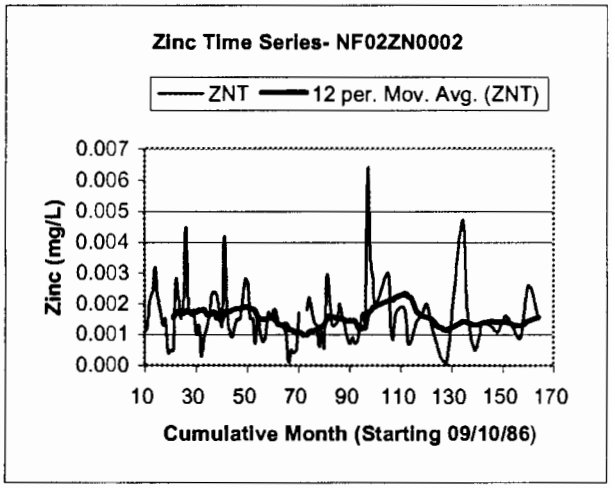

Selenium Time Series- NF02ZN0002
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)


Nickel Time Series- NF02ZN0002
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

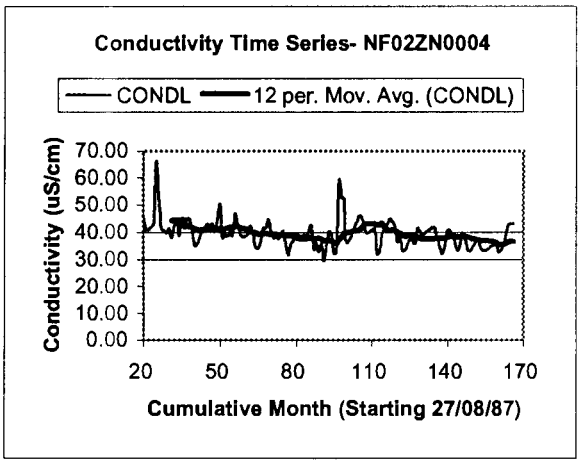

Strontium Time Series- NF02ZN0002
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

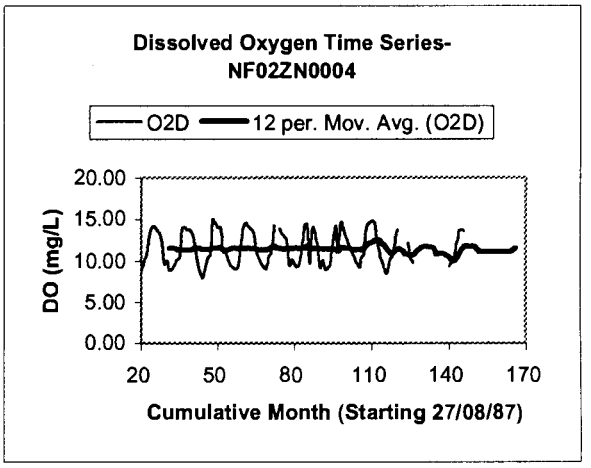

Lead Time Series- NF02ZN0002
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

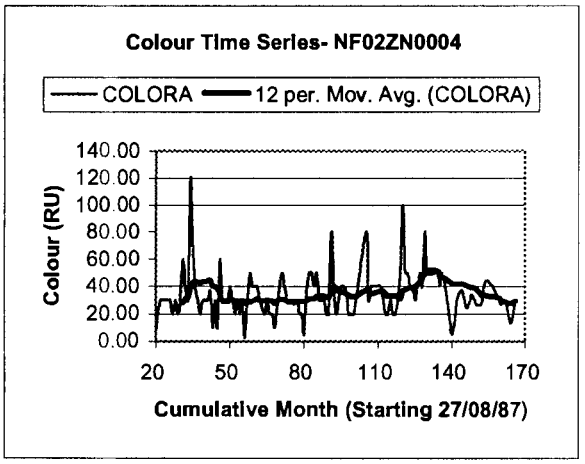

Vanadium Time Series- NF02ZN0002
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10 30 50 70 90 110 130 150 170
Cumulative Month (Starting 09/10/86)

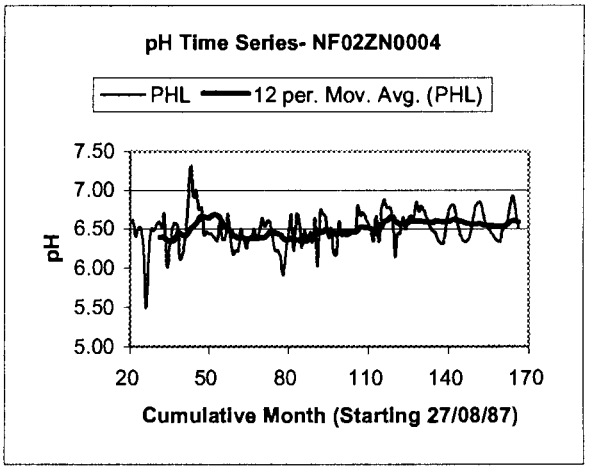

Zinc Time Series- NF02ZN0002
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
30
50
70
90
110
130
150
170
Cumulative Month (Starting 09/10/86)

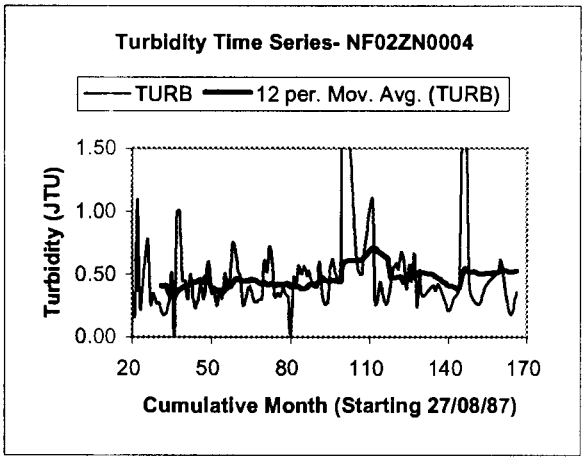
Time Series Plots of Salmonier River- NF02ZN0004

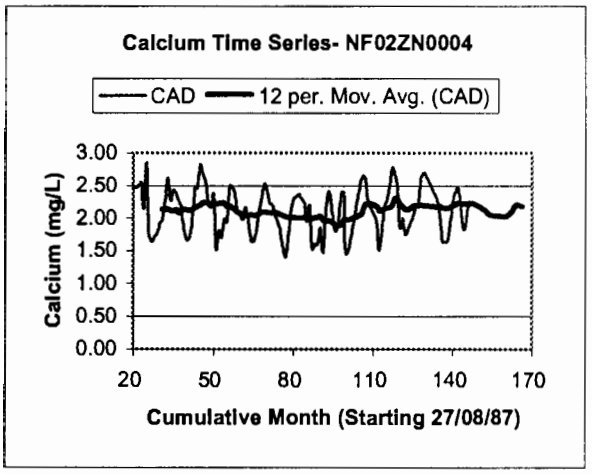


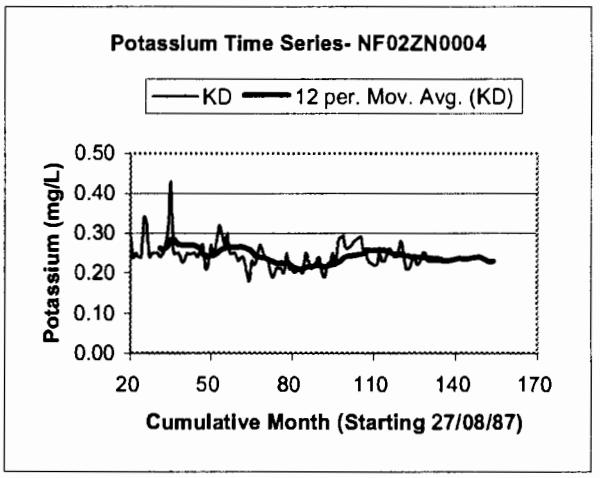


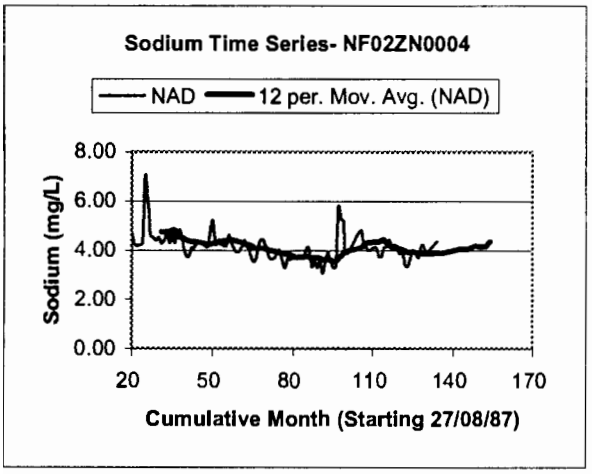


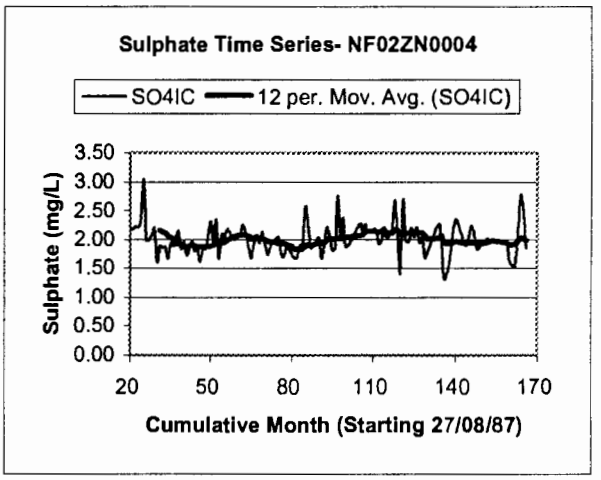


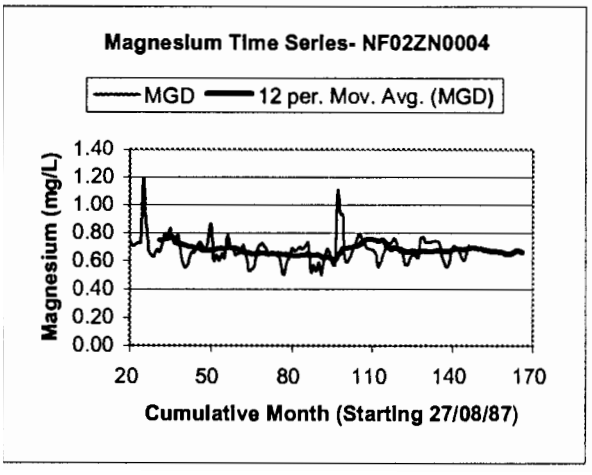


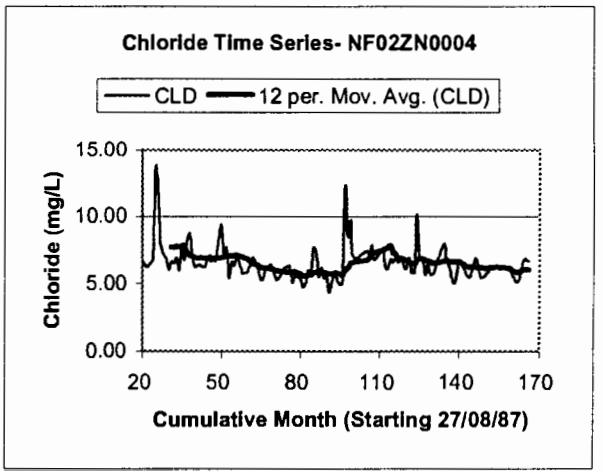

Calcium Time Series- NF02ZN0004
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

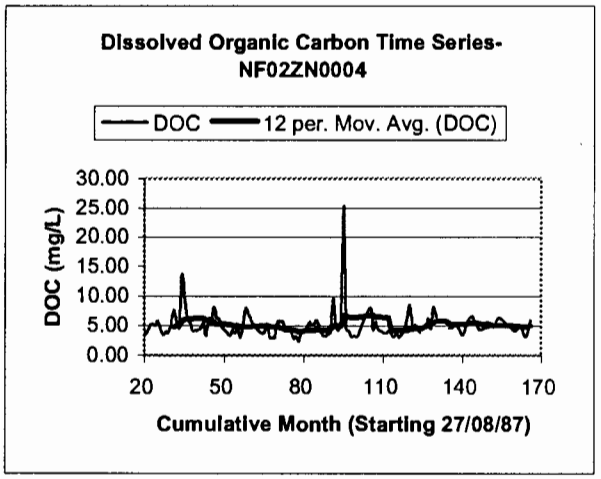

Potassium Time Series- NF02ZN0004
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

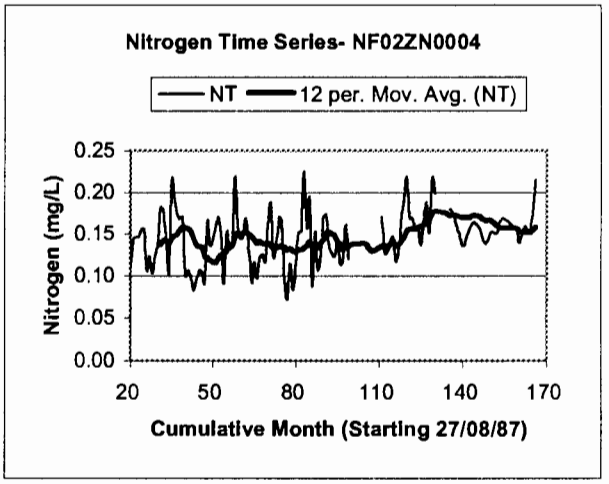

Sodium Time Series- NF02ZN0004
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
8.00
6.00
4.00
2.00
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

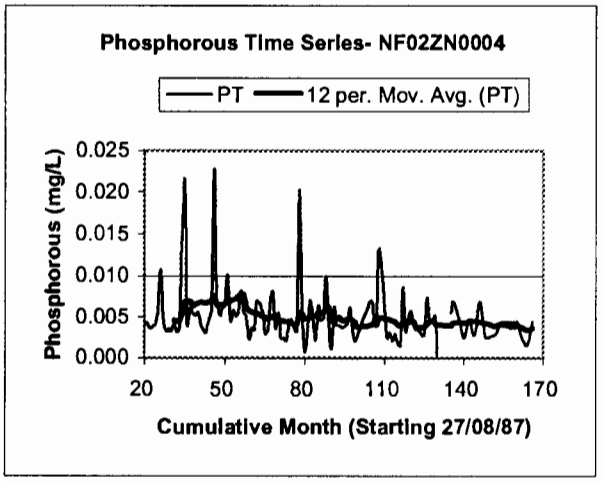

Sulphate Time Series- NF02ZN0004
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

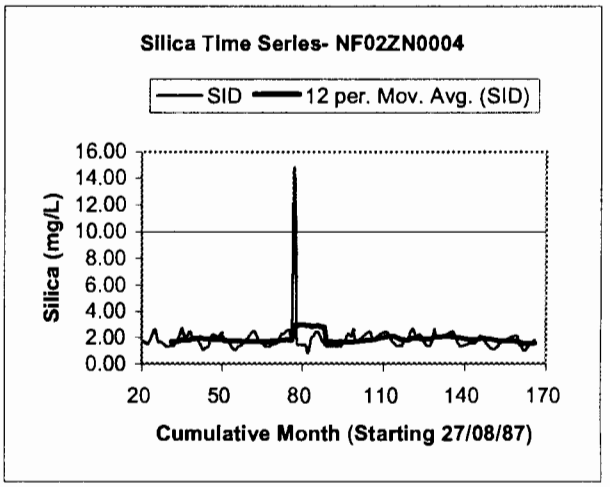

Magnesium Time Series- NF02ZN0004
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

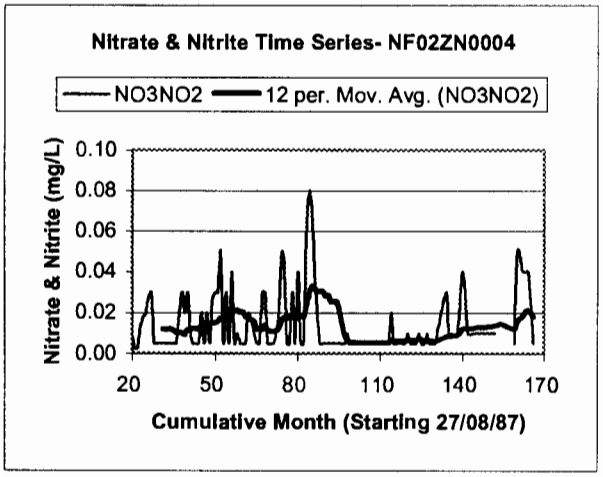

Chloride Time Series- NF02ZN0004
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
15.00
10.00
5.00
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

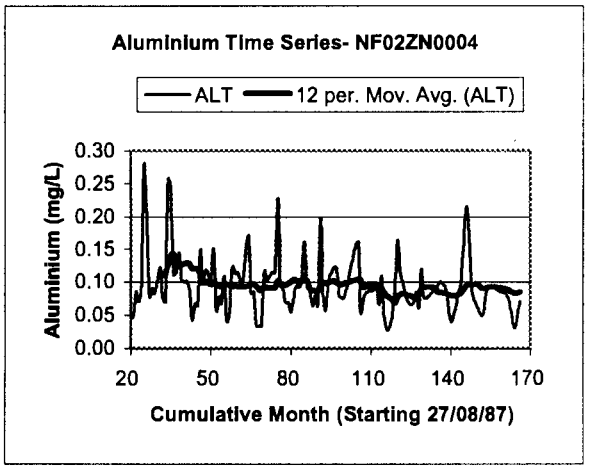

Dissolved Organic Carbon Time Series- NF02ZN0004
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

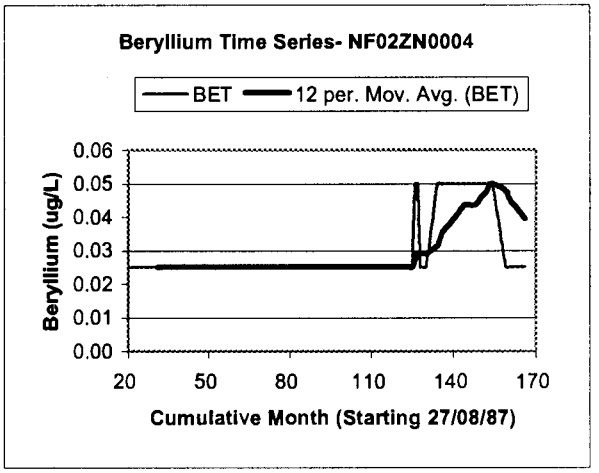

Nitrogen Time Series- NF02ZN0004
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

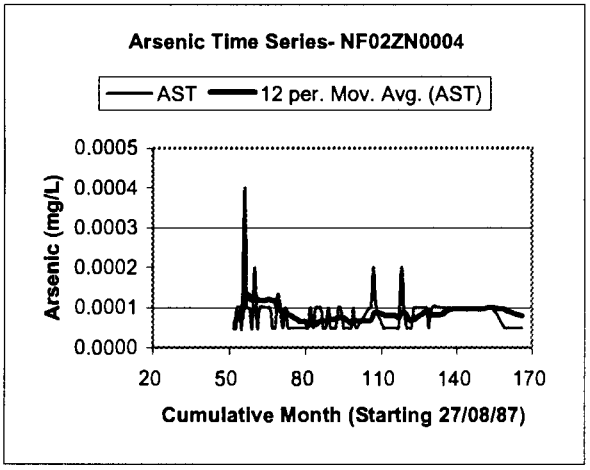

Phosphorous Time Series- NF02ZN0004
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

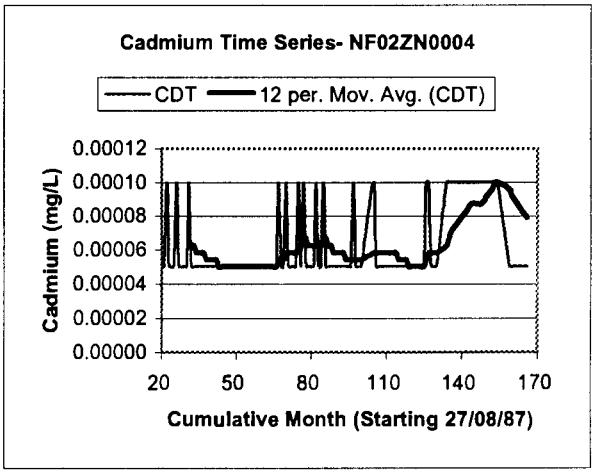

Silica Time Series- NF02ZN0004
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

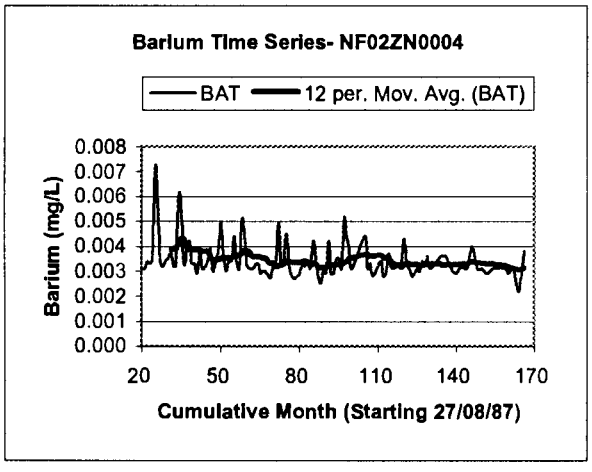

Nitrate & Nitrite Time Series- NF02ZN0004
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

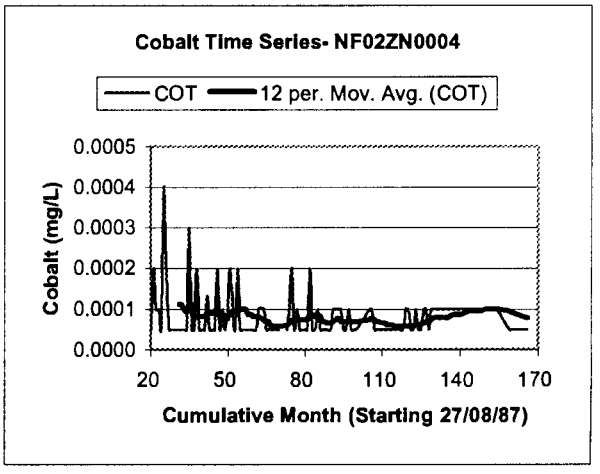

Aluminium Time Series- NF02ZN0004
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

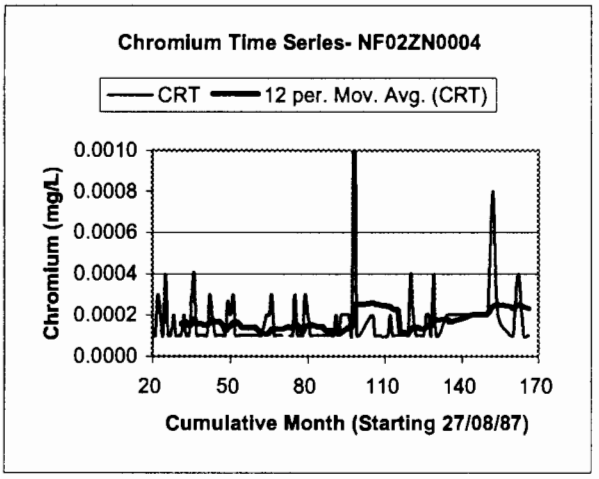

Beryllium Time Series- NF02ZN0004
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

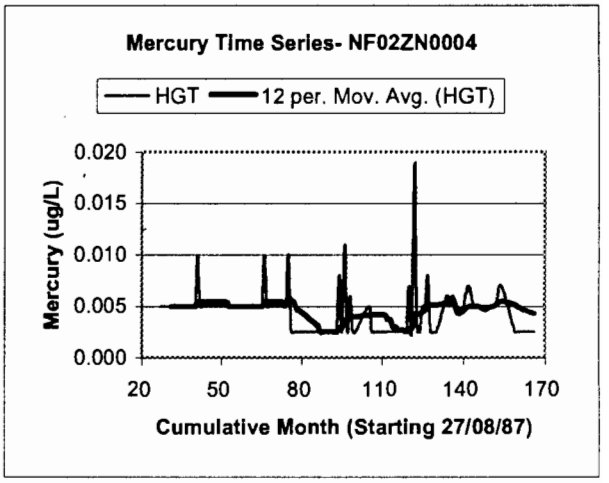

Arsenic Time Series- NF02ZN0004
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

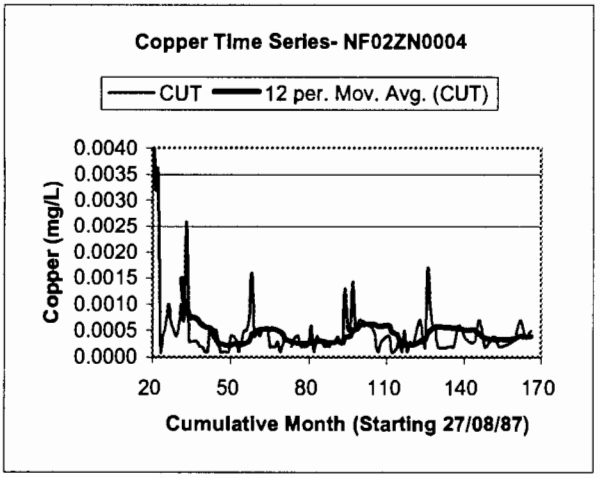

Cadmium Time Series- NF02ZN0004
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

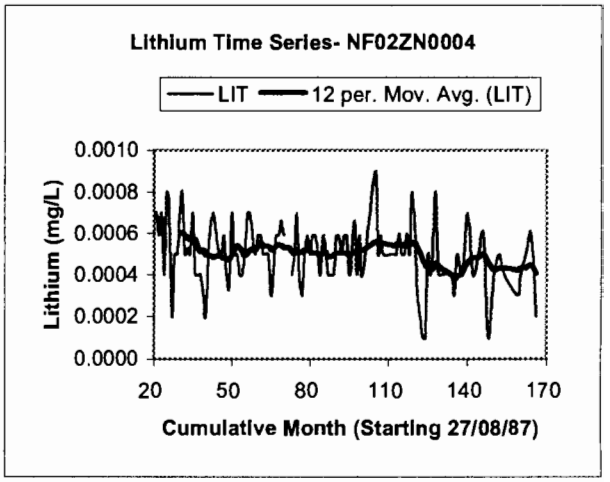

Barium Time Series- NF02ZN0004
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

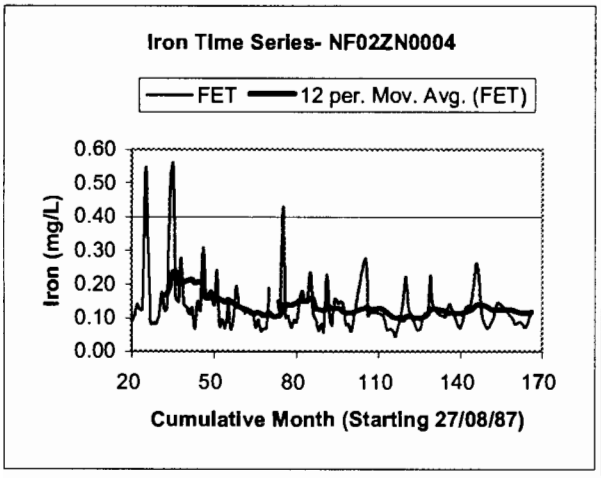

Cobalt Time Series- NF02ZN0004
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

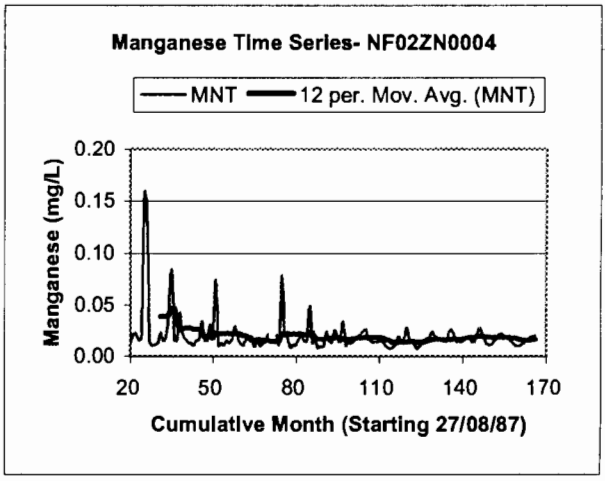

Chromium Time Series- NF02ZN0004
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

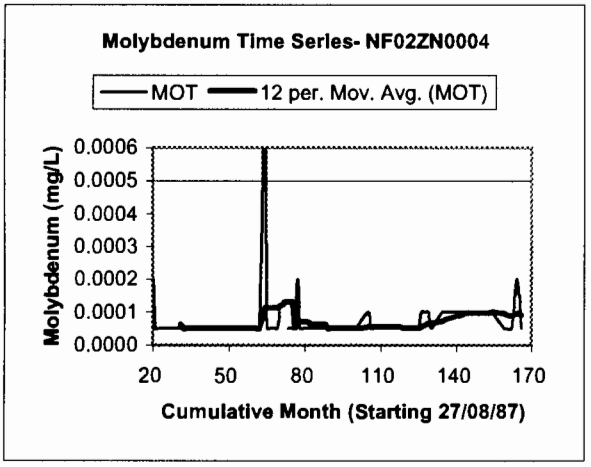

Mercury Time Series- NF02ZN0004
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.020
0.015
0.010
0.005
0.000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

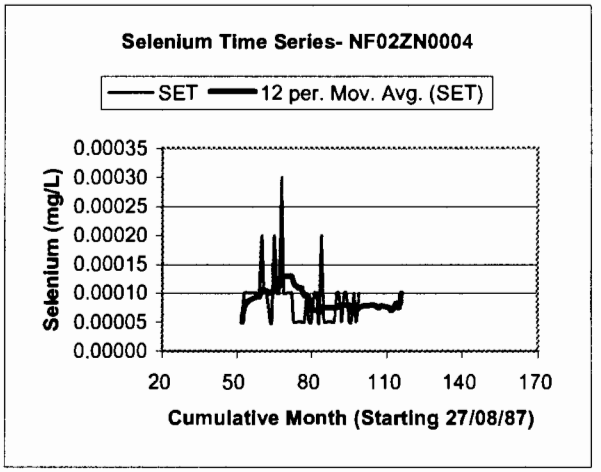

Copper Time Series- NF02ZN0004
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

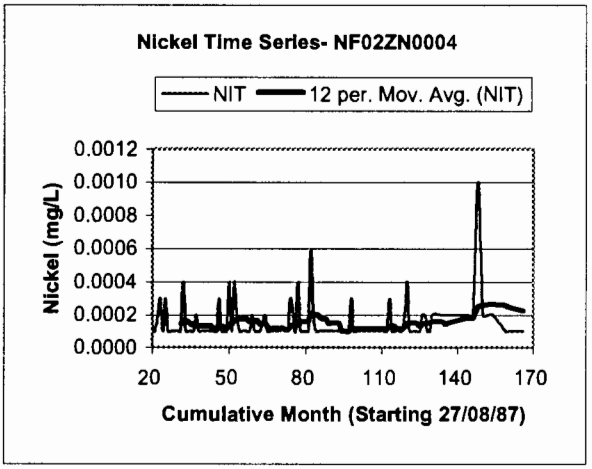

Lithium Time Series- NF02ZN0004
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

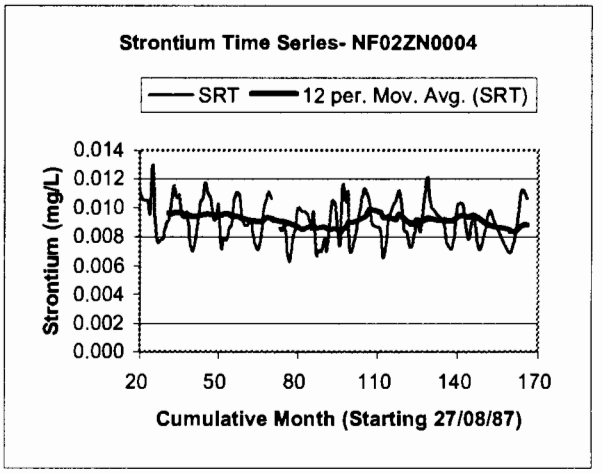

Iron Time Series- NF02ZN0004
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

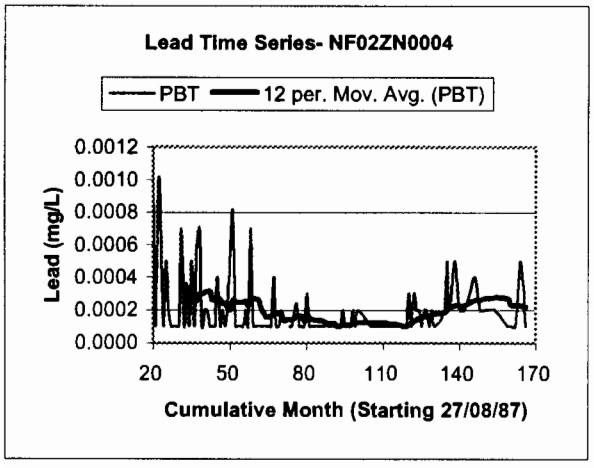

Manganese Time Series- NF02ZN0004
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.20
0.15
0.10
0.05
0.00
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

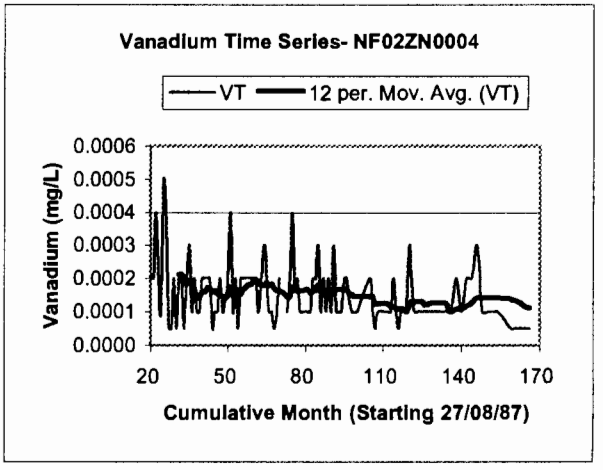

Molybdenum Time Series- NF02ZN0004
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

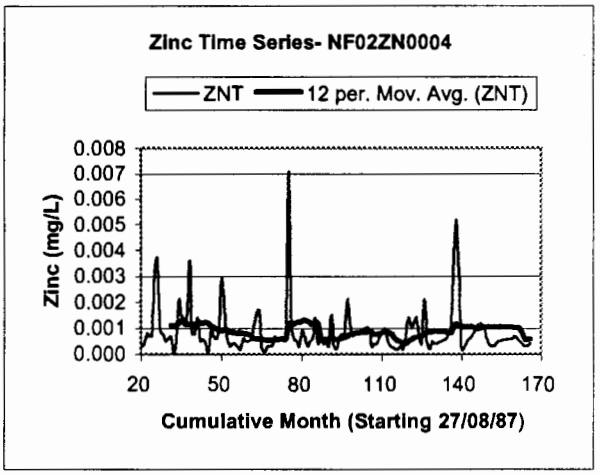

Selenium Time Series- NF02ZN0004
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)


Nickel Time Series- NF02ZN0004
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

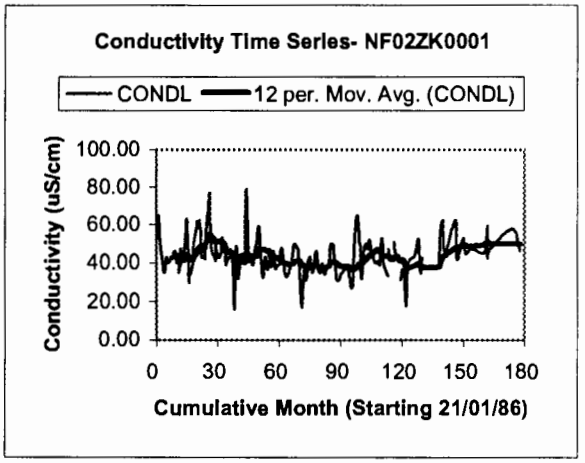

Strontium Time Series- NF02ZN0004
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

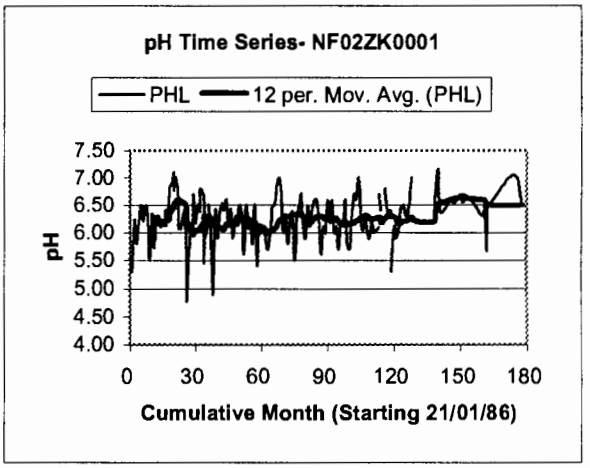

Lead Time Series- NF02ZN0004
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

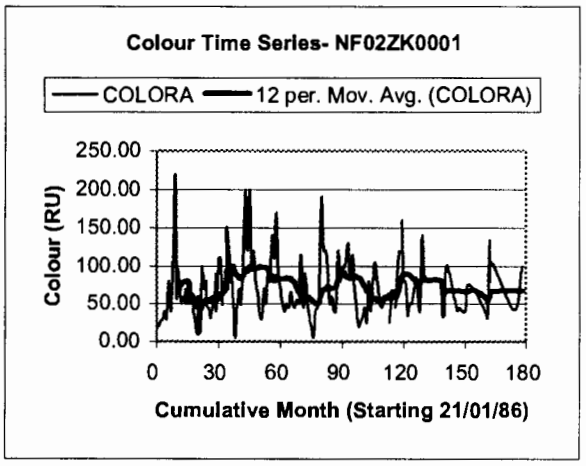

Vanadium Time Series- NF02ZN0004
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

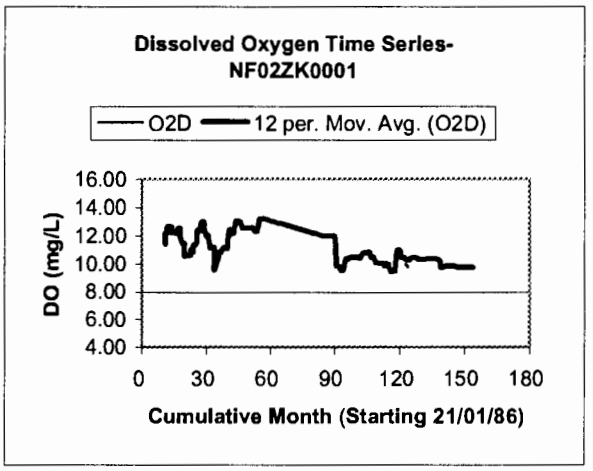

Zinc Time Series- NF02ZN0004
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
20
50
80
110
140
170
Cumulative Month (Starting 27/08/87)

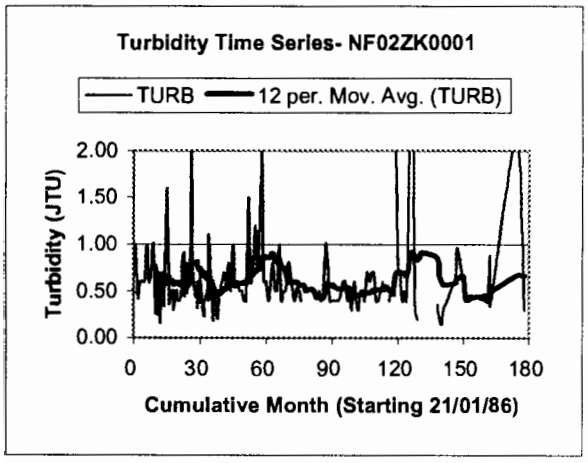
Time Series Plots of Rocky River- NF02ZK0001

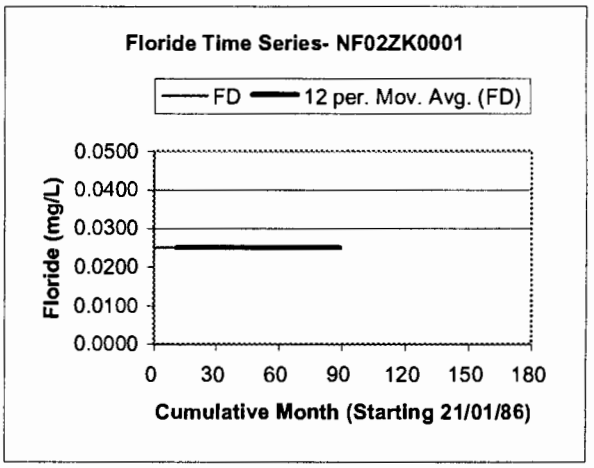


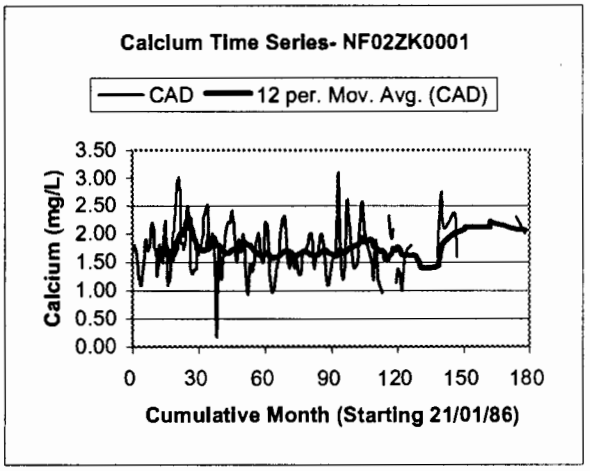


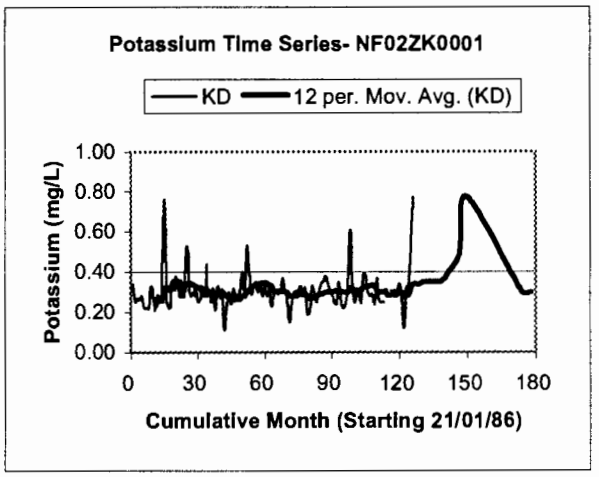


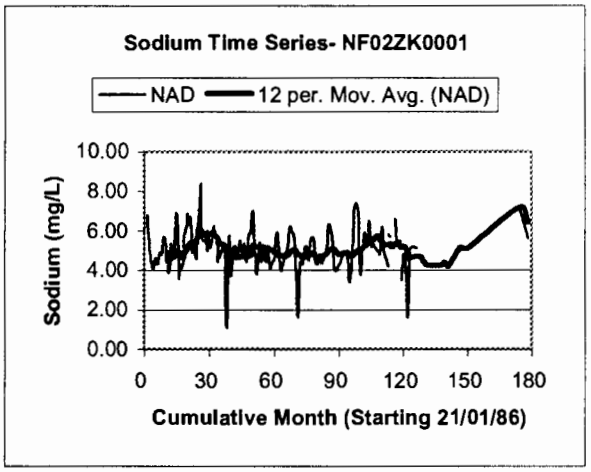


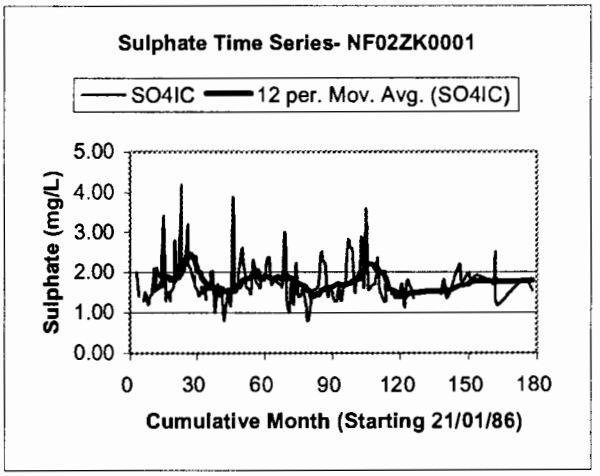


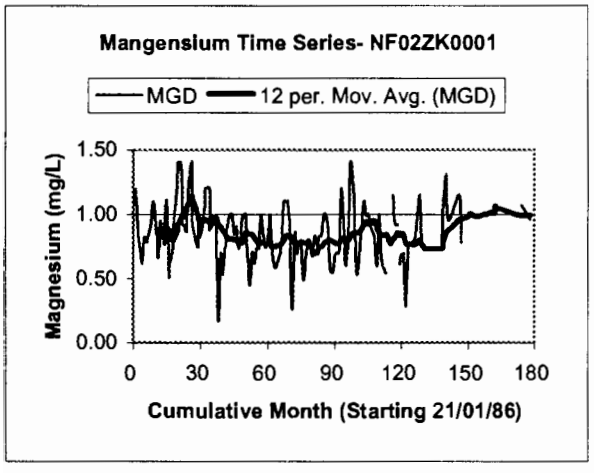


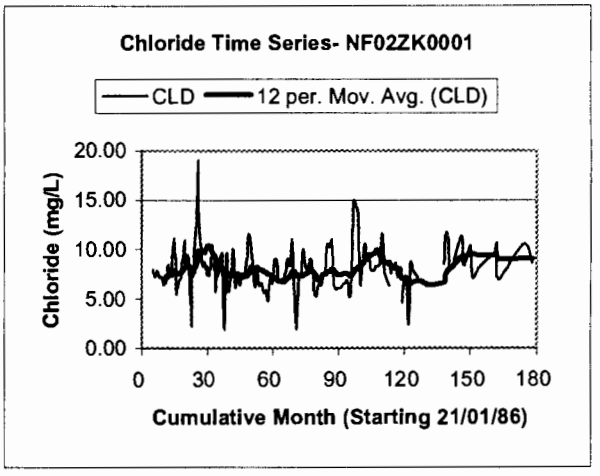

Calcium Time Series- NF02ZK0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

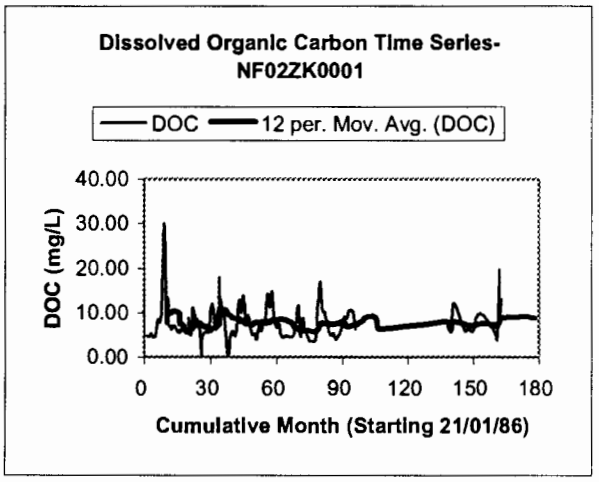

Potassium Time Series- NF02ZK0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

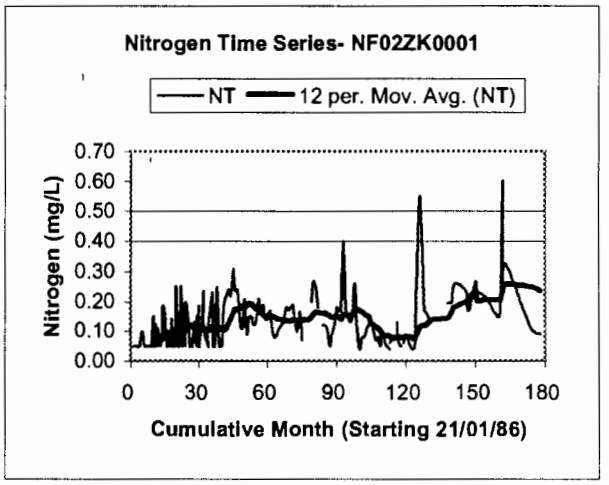

Sodium Time Series- NF02ZK0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

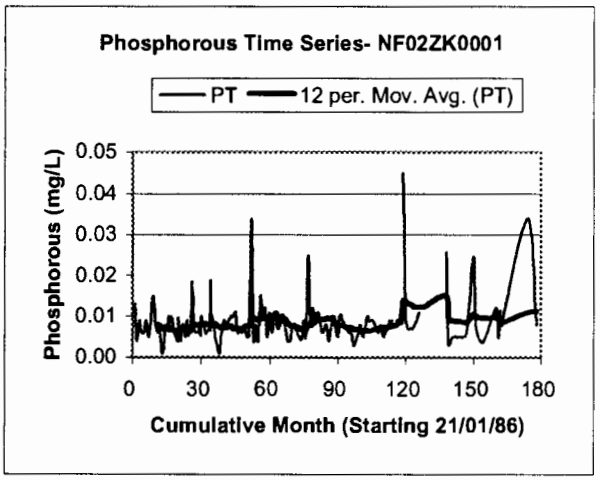

Sulphate Time Series- NF02ZK0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

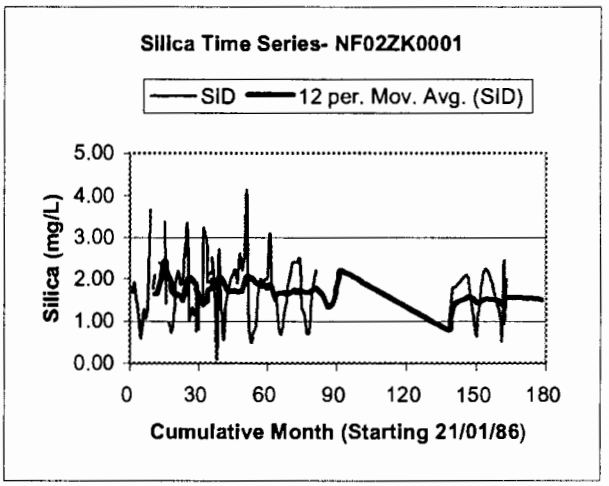

Mangensium Time Series- NF02ZK0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

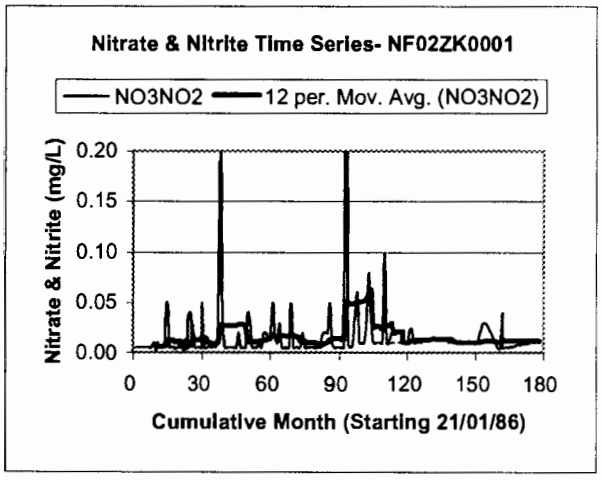

Chloride Time Series- NF02ZK0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

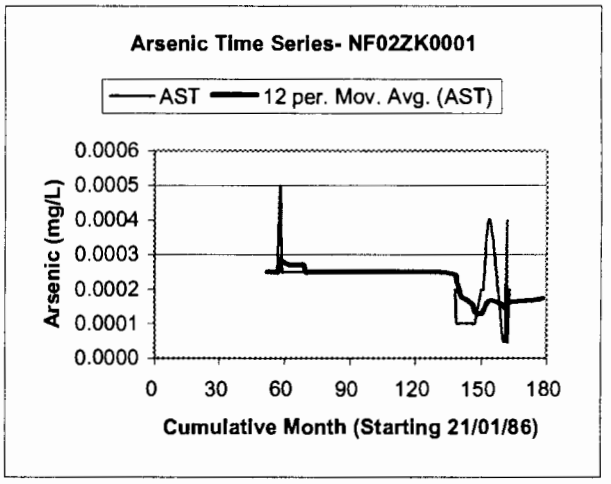

Dissolved Organic Carbon Time Series- NF02ZK0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
40.00
30.00
20.00
10.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)


Nitrogen Time Series- NF02ZK0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

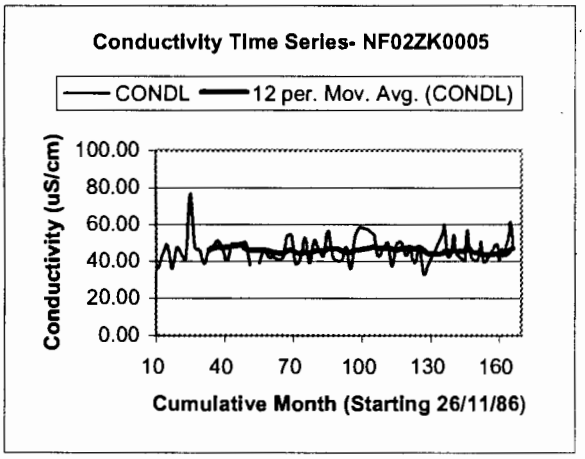

Phosphorous Time Series- NF02ZK0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

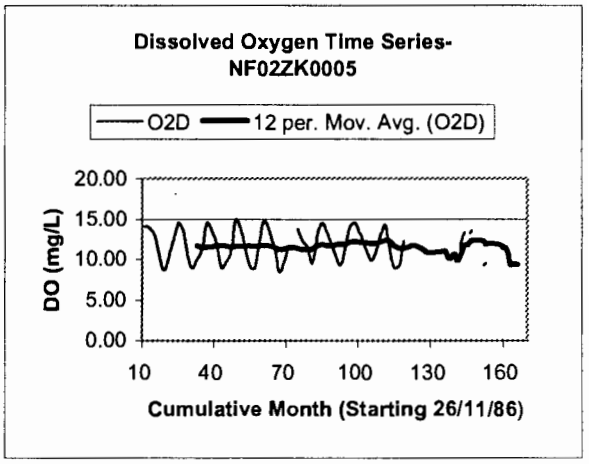

Silica Time Series- NF02ZK0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

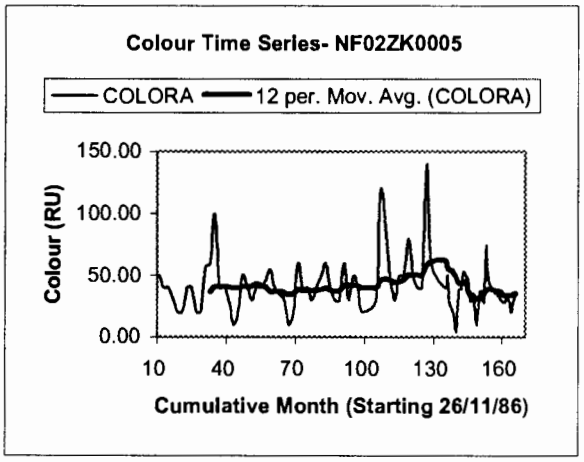

Nitrate & Nitrite Time Series- NF02ZK0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

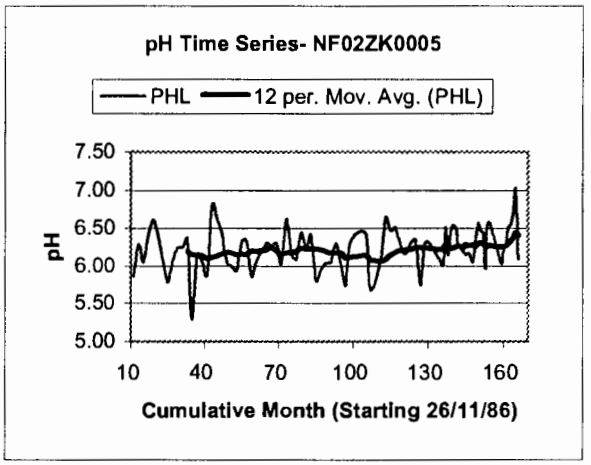

Arsenic Time Series- NF02ZK0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 21/01/86)

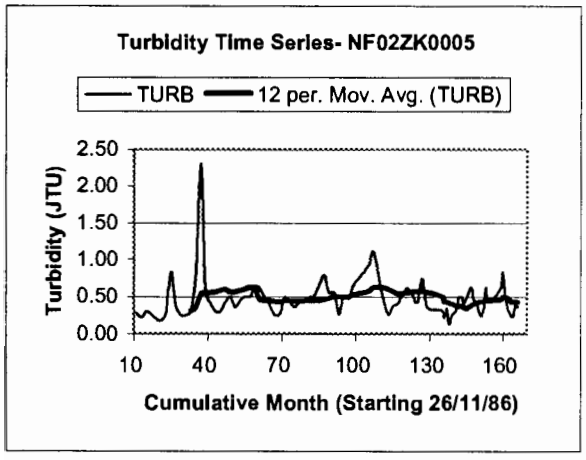
Time Series Plots of Northeast River- NF02ZK0005

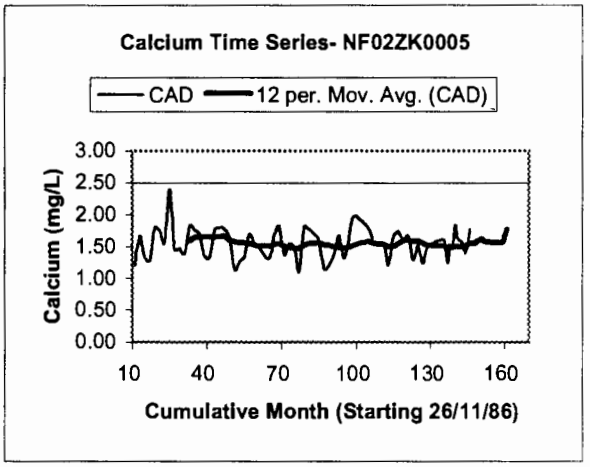


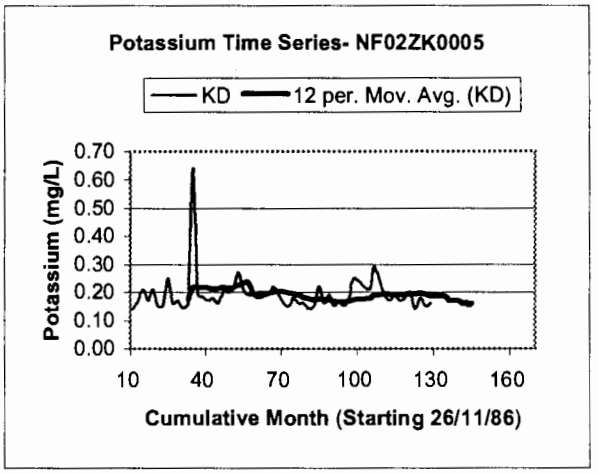


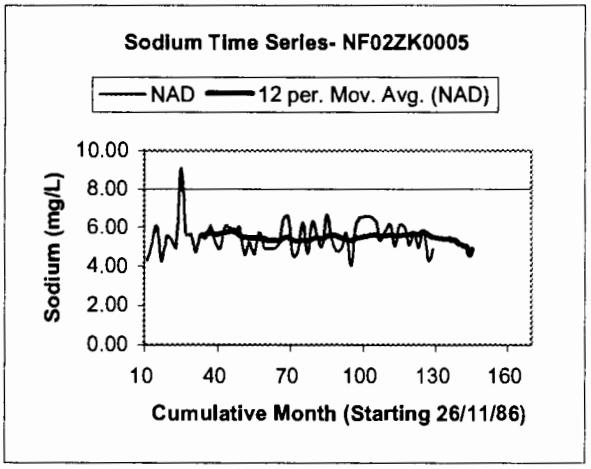


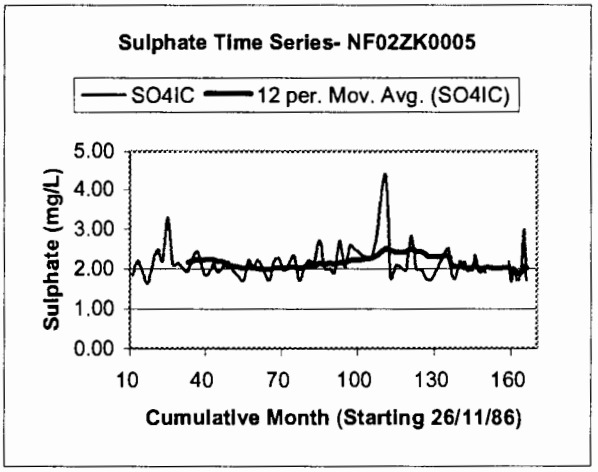


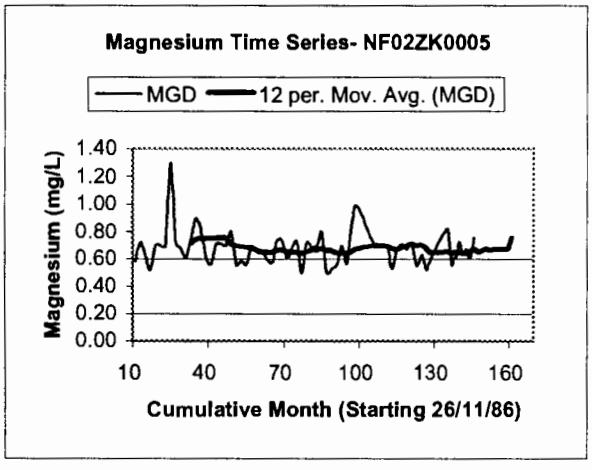


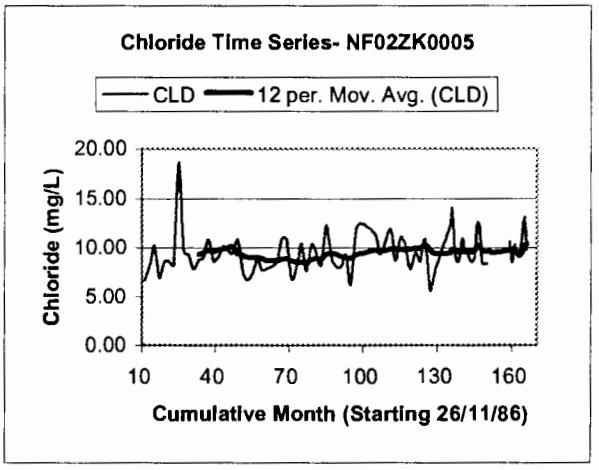

Calcium Time Series- NF02ZK0005
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

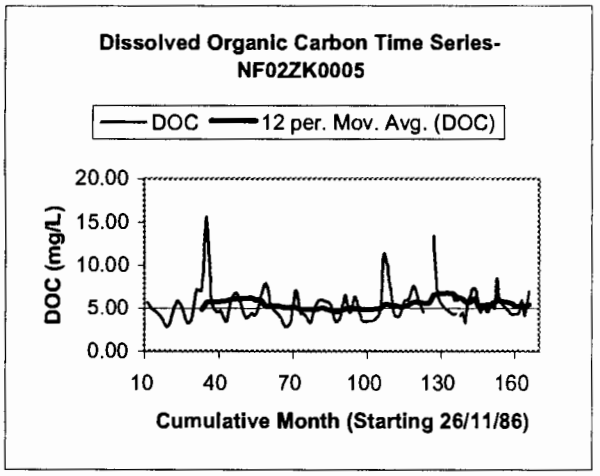

Potassium Time Series- NF02ZK0005
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

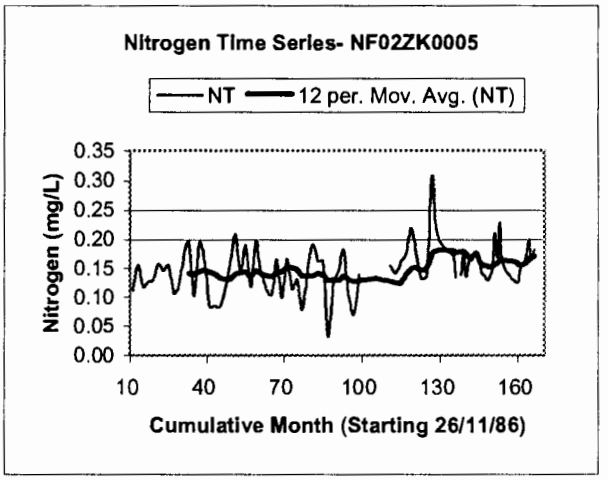

Sodium Time Series- NF02ZK0005
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

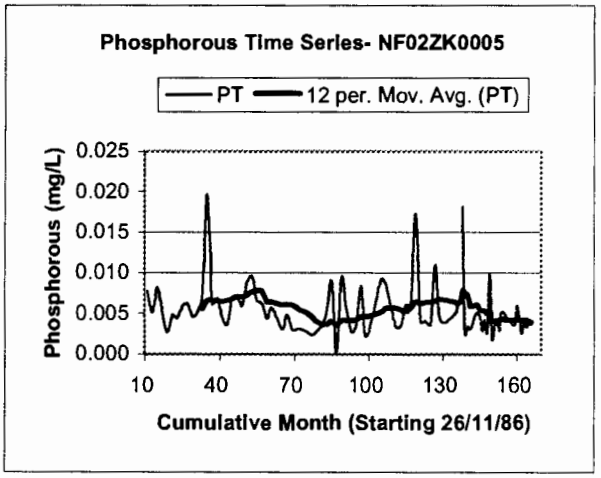

Sulphate Time Series- NF02ZK0005
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

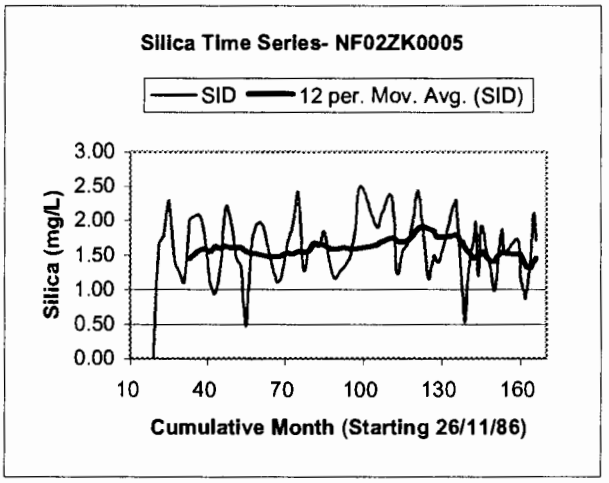

Magnesium Time Series- NF02ZK0005
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

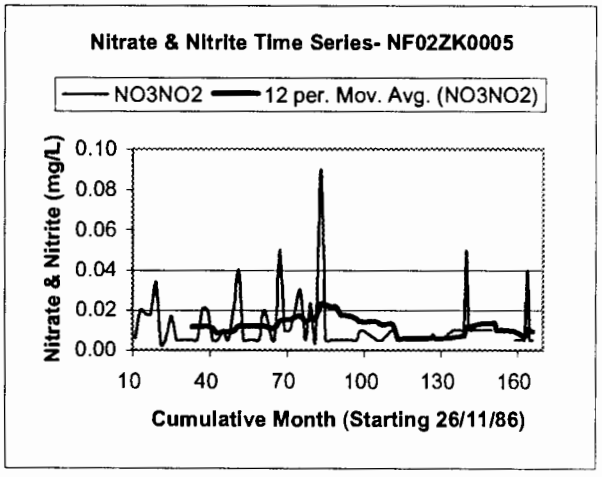

Chloride Time Series- NF02ZK0005
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

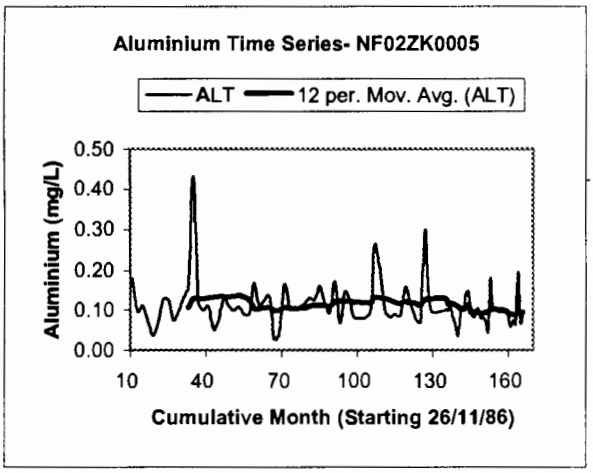

Dissolved Organic Carbon Time Series- NF02ZK0005
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

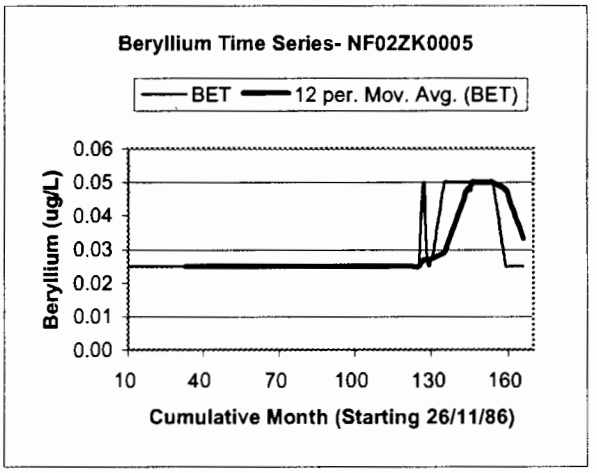

Nitrogen Time Series- NF02ZK0005
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

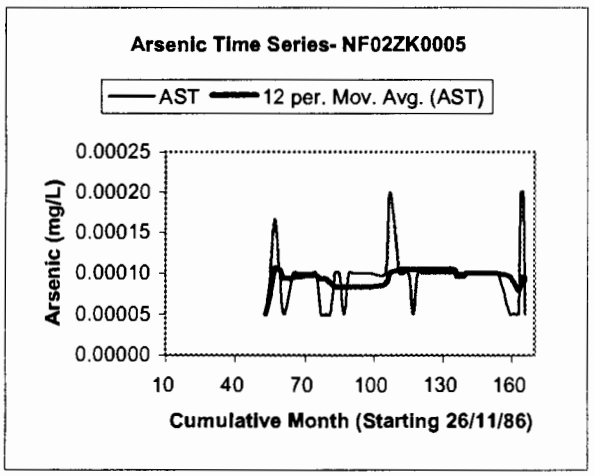

Phosphorous Time Series- NF02ZK0005
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

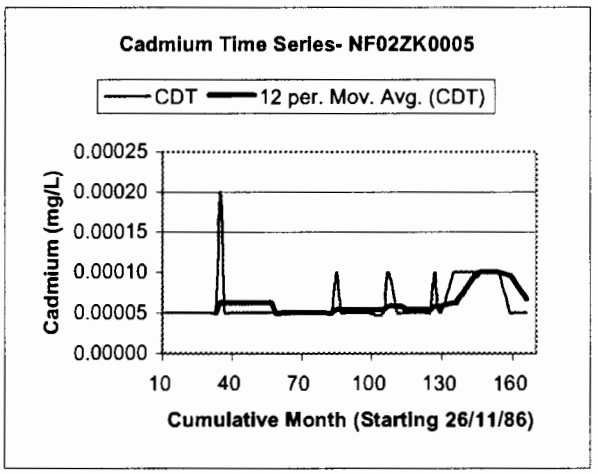

Silica Time Series- NF02ZK0005
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

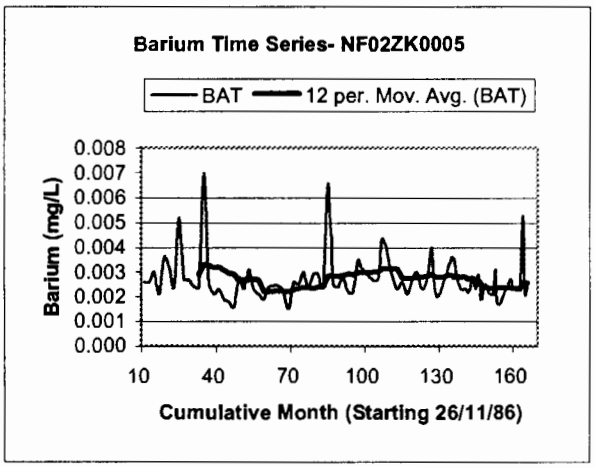

Nitrate & Nitrite Time Series- NF02ZK0005
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

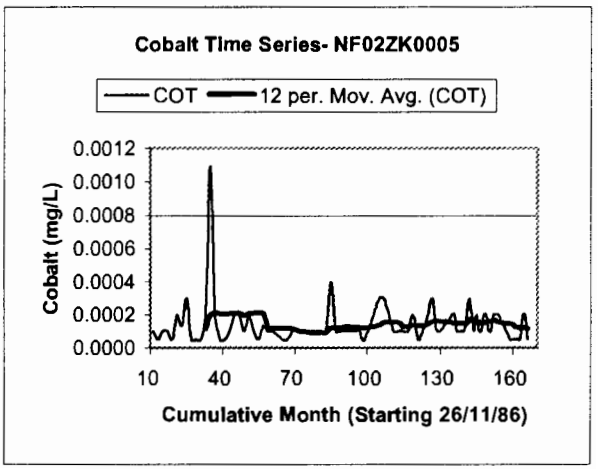

Aluminium Time Series- NF02ZK0005
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

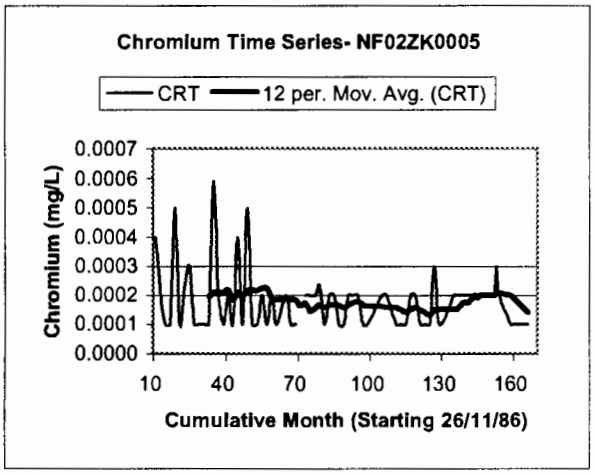

Beryllium Time Series- NF02ZK0005
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

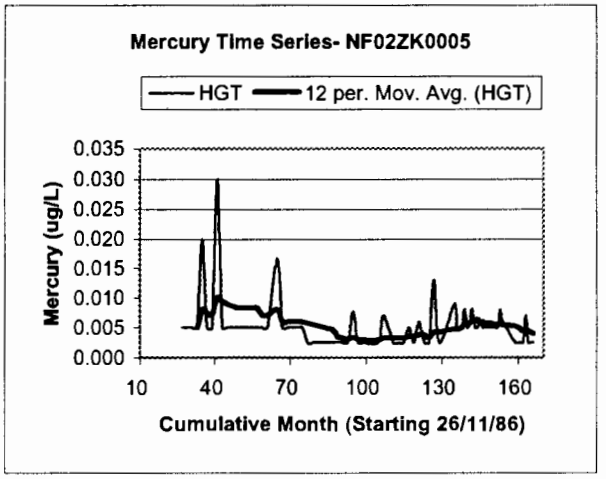

Arsenic Time Series- NF02ZK0005
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

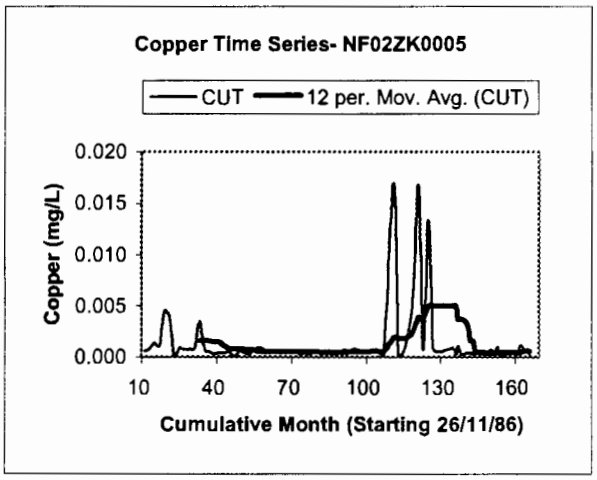

Cadmium Time Series- NF02ZK0005
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

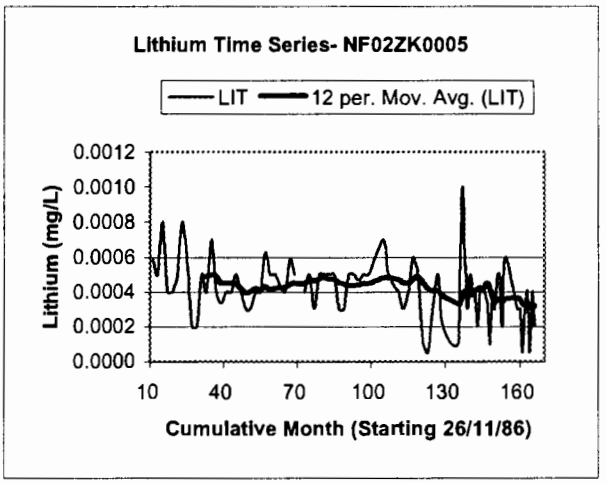

Barium Time Series- NF02ZK0005
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

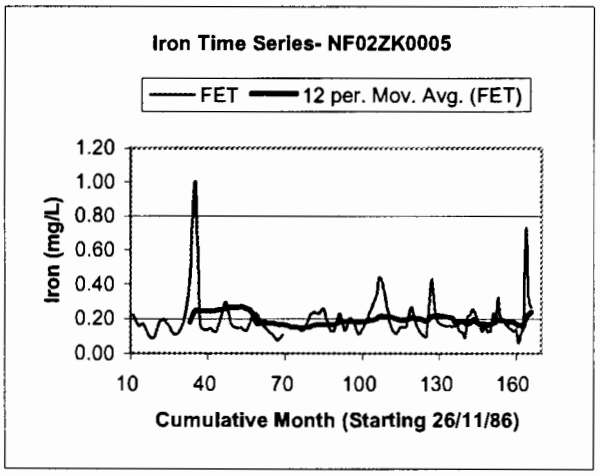

Cobalt Time Series- NF02ZK0005
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

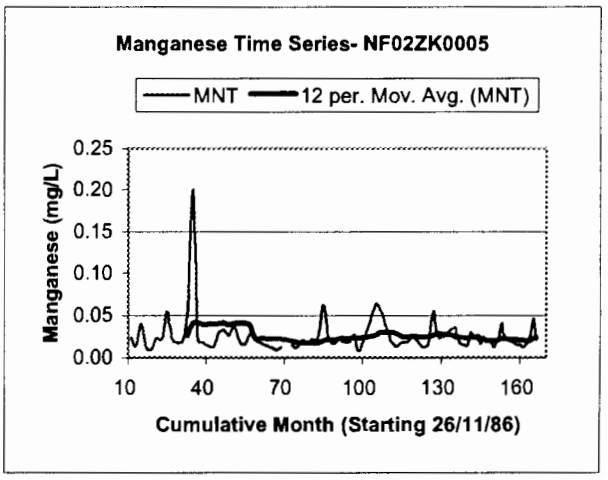

Chromium Time Series- NF02ZK0005
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

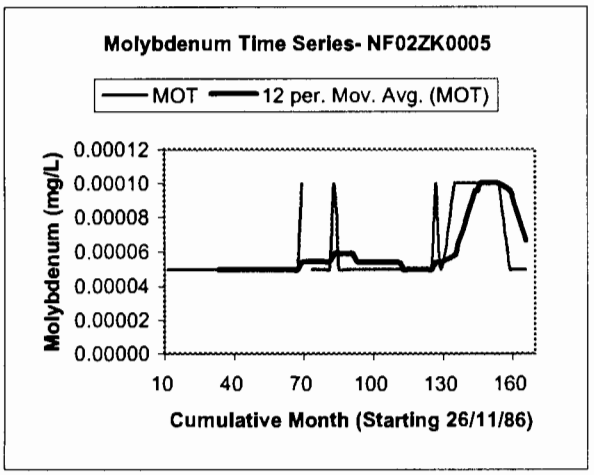

Mercury Time Series- NF02ZK0005
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

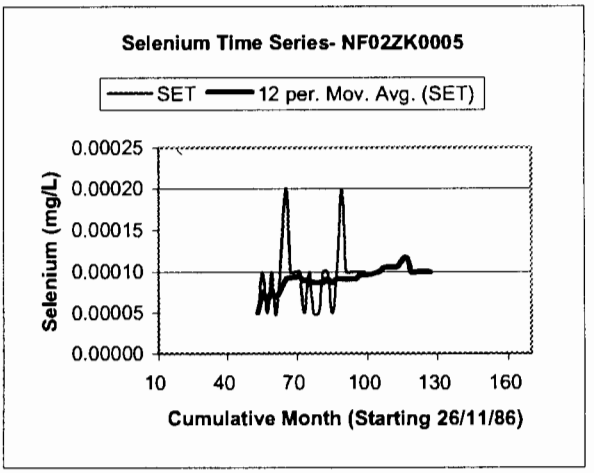

Copper Time Series- NF02ZK0005
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

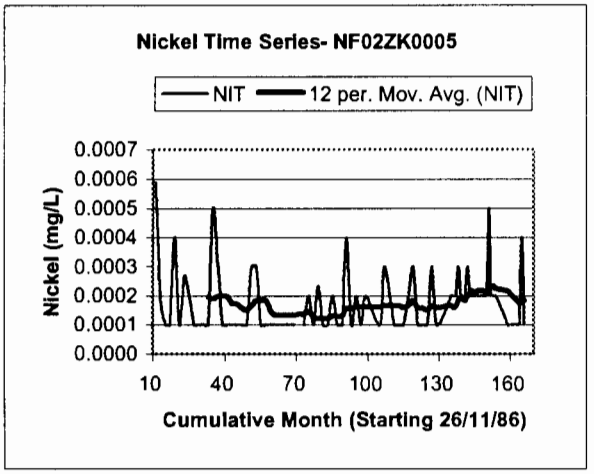

Lithium Time Series- NF02ZK0005
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

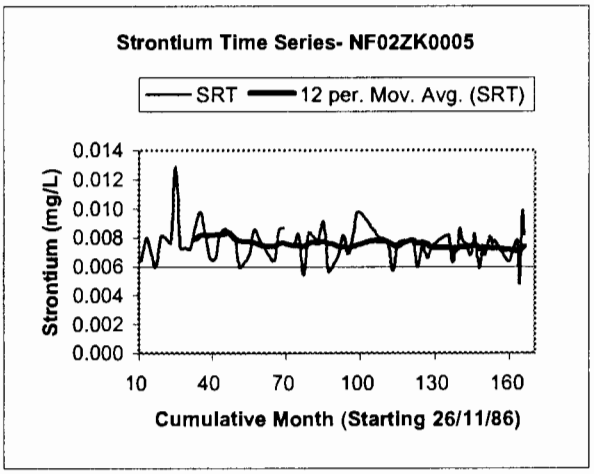

Iron Time Series- NF02ZK0005
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

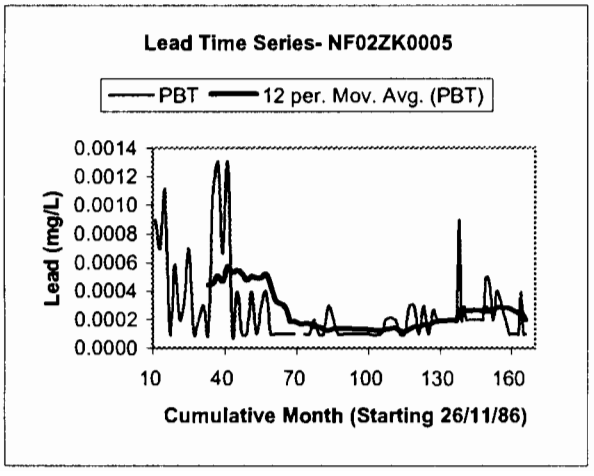

Manganese Time Series- NF02ZK0005
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

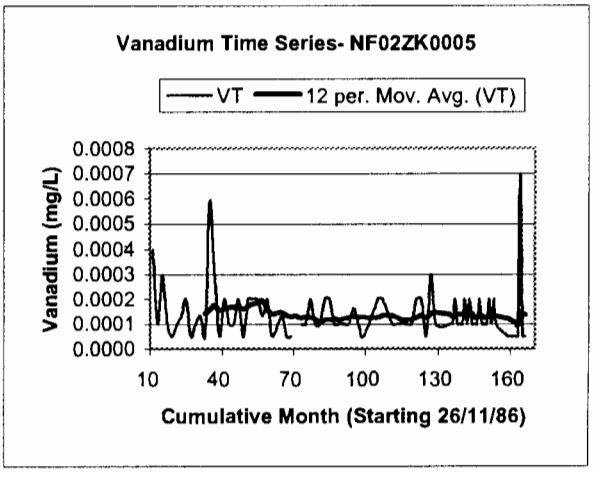

Molybdenum Time Series- NF02ZK0005
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

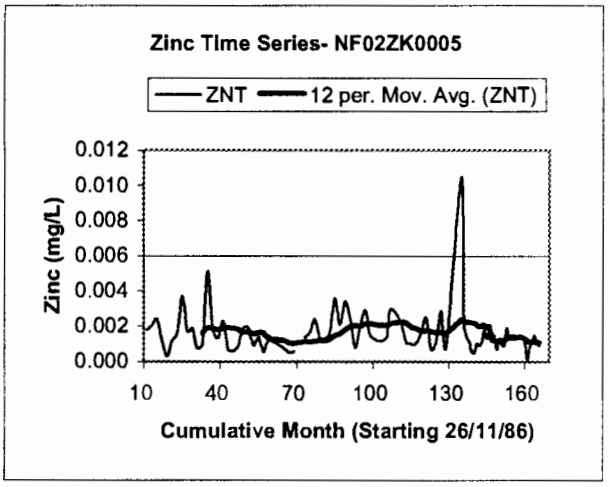

Selenium Time Series- NF02ZK0005
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)


Nickel Time Series- NF02ZK0005
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

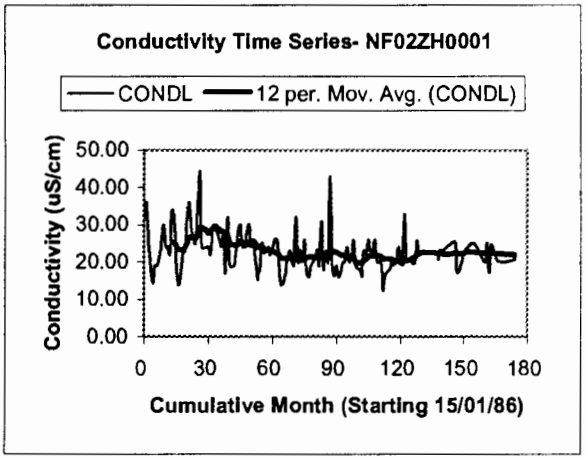

Strontium Time Series- NF02ZK0005
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

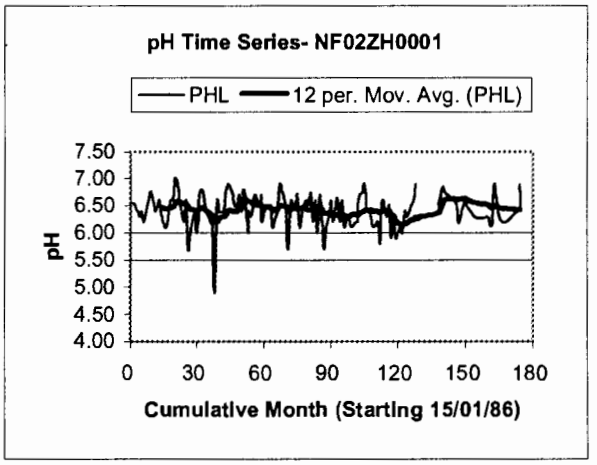

Lead Time Series- NF02ZK0005
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

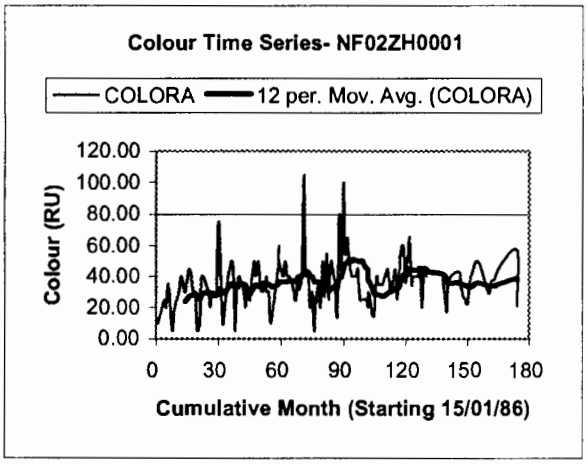

Vanadium Time Series- NF02ZK0005
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

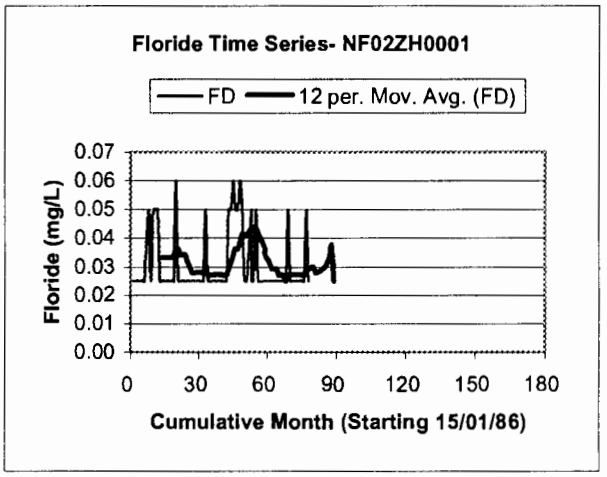

Zinc Time Series- NF02ZK0005
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10
40
70
100
130
160
Cumulative Month (Starting 26/11/86)

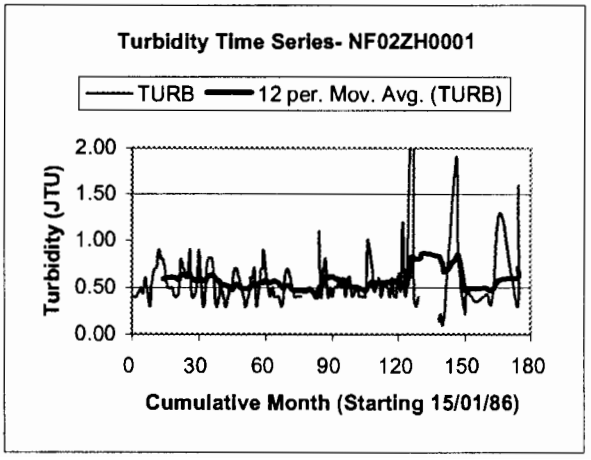
Time Series Plots of Pipers Hole River- NF02ZH0001

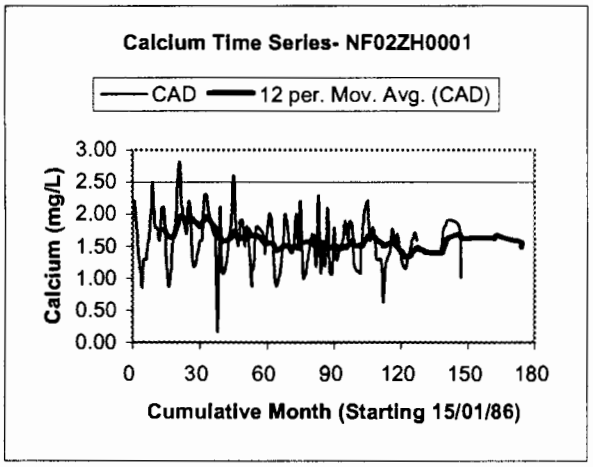


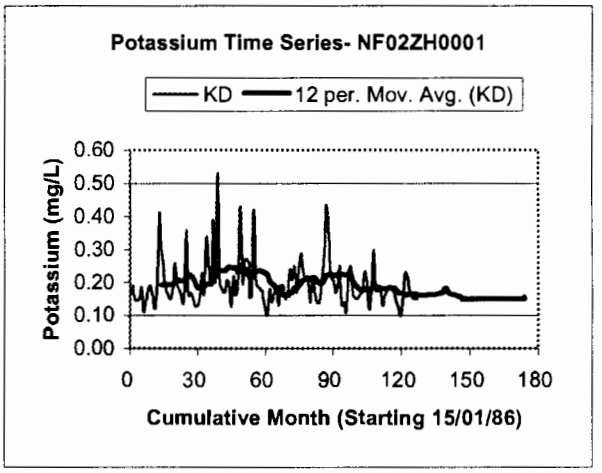


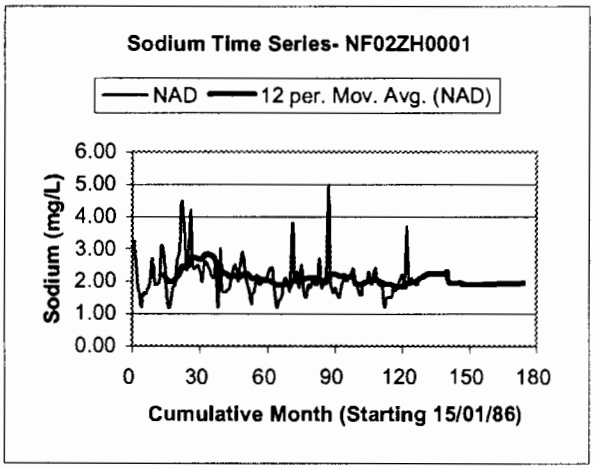


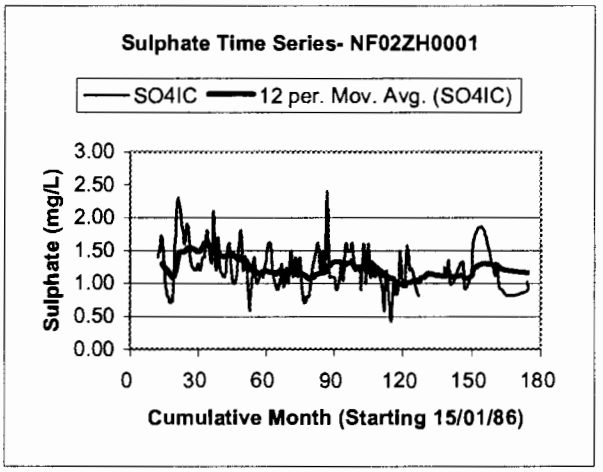


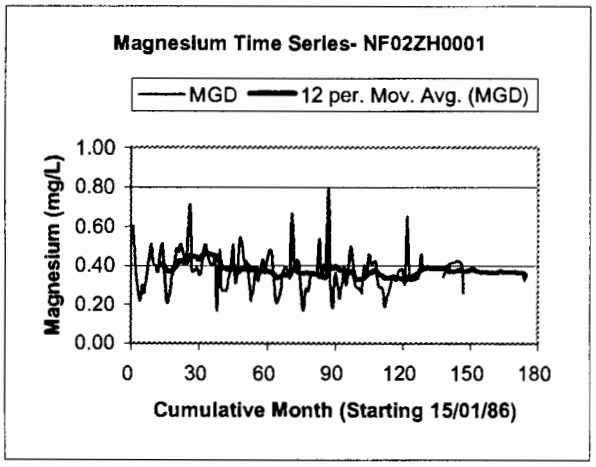


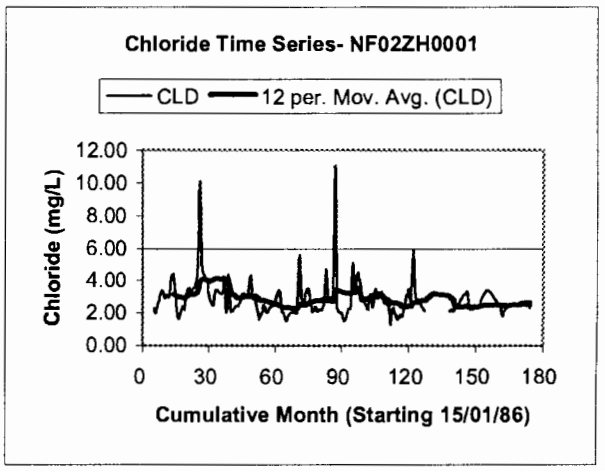

Calcium Time Series- NF02ZH0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

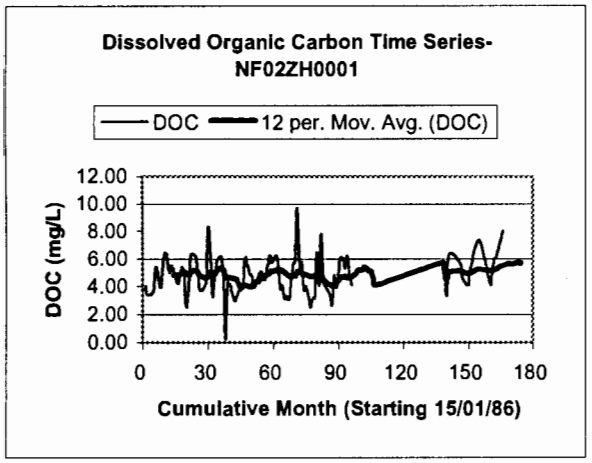

Potassium Time Series- NF02ZH0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

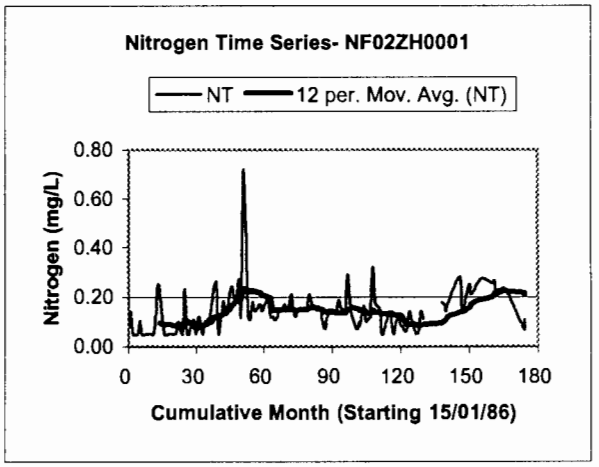

Sodium Time Series- NF02ZH0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

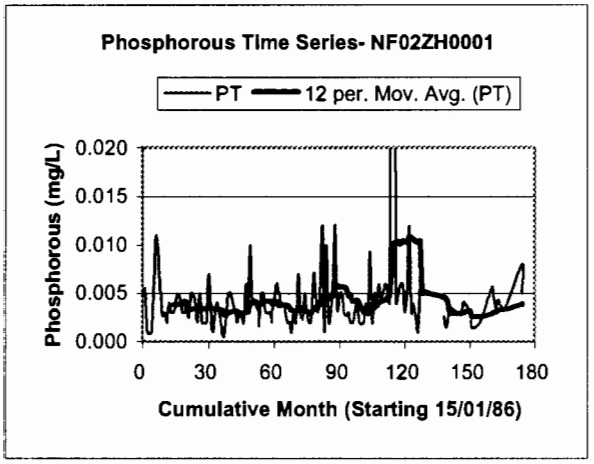

Sulphate Time Series- NF02ZH0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

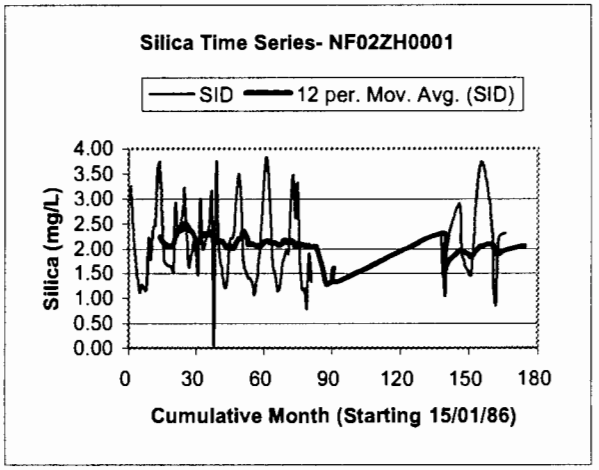

Magnesium Time Series- NF02ZH0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

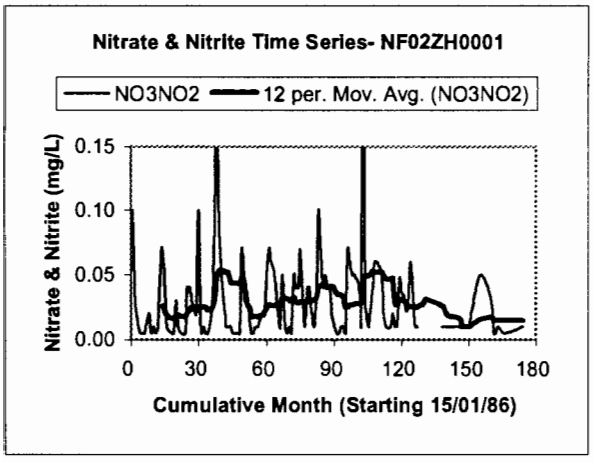

Chloride Time Series- NF02ZH0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

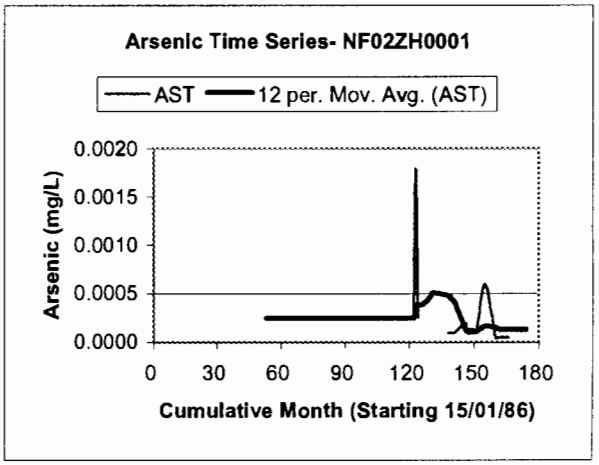

Dissolved Organic Carbon Time Series- NF02ZH0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)


Nitrogen Time Series- NF02ZH0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

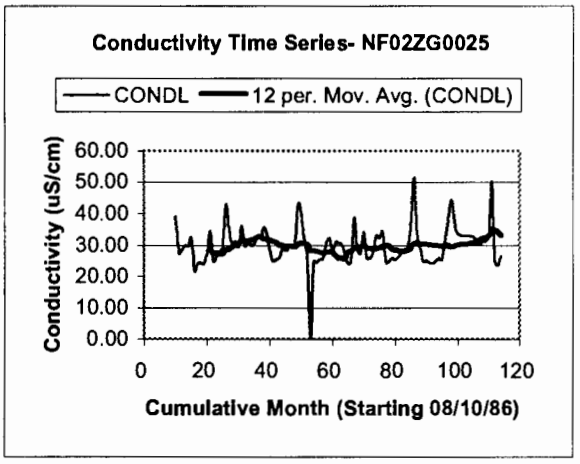

Phosphorous Time Series- NF02ZH0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

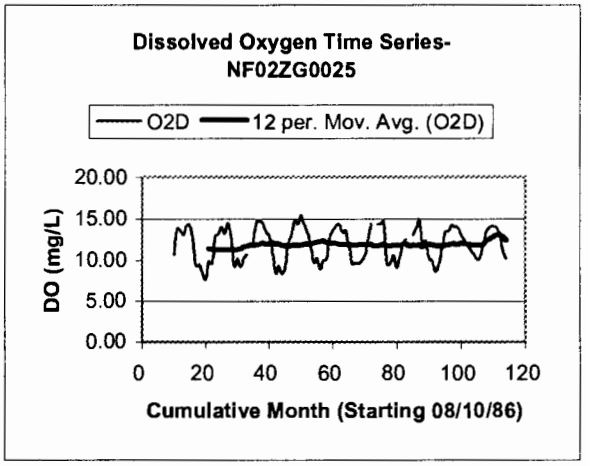

Silica Time Series- NF02ZH0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

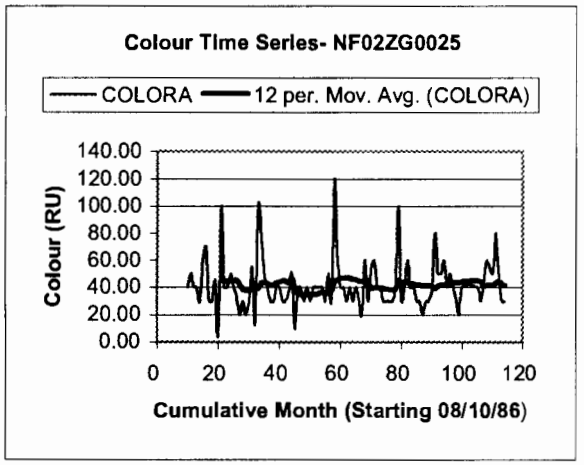

Nitrate & Nitrite Time Series- NF02ZH0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

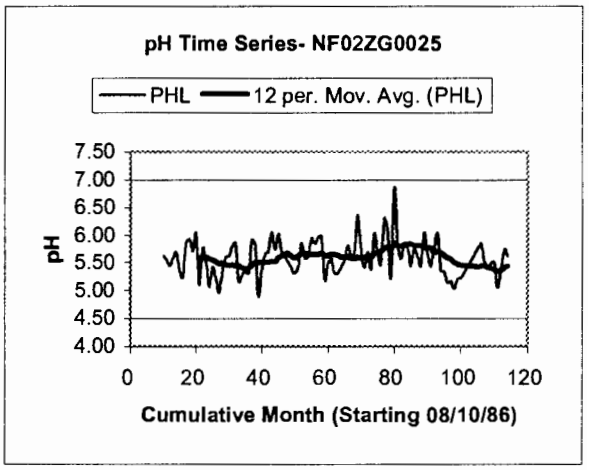

Arsenic Time Series- NF02ZH0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 15/01/86)

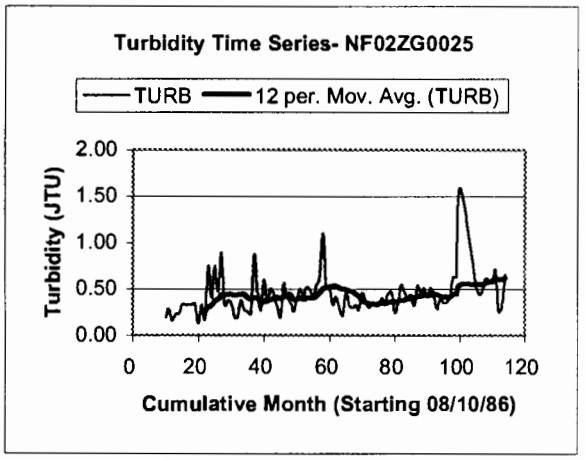
Time Series Plots for Rattle Brook- NF02ZG0025

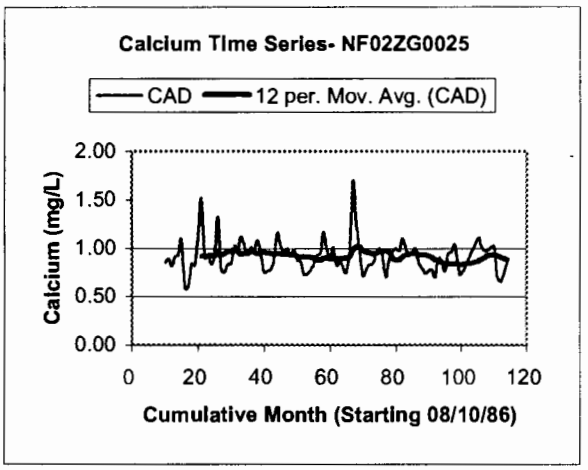


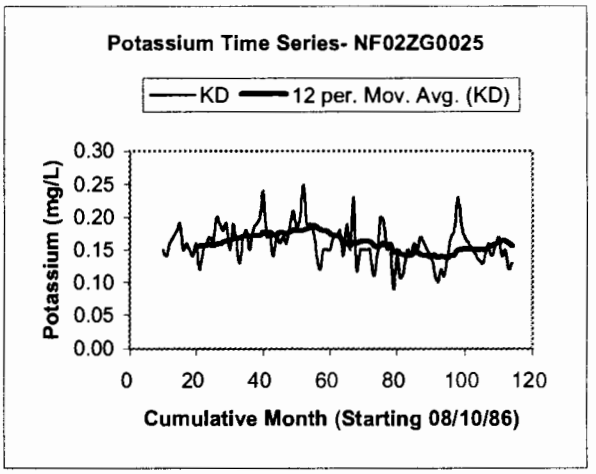


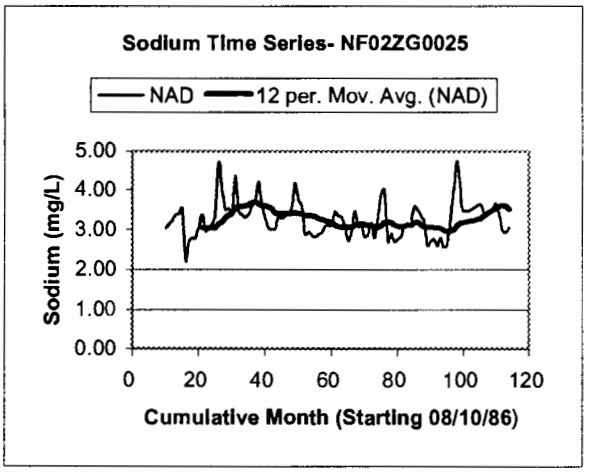


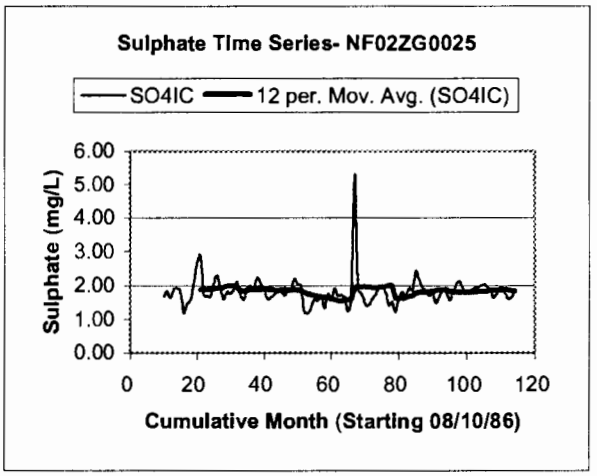


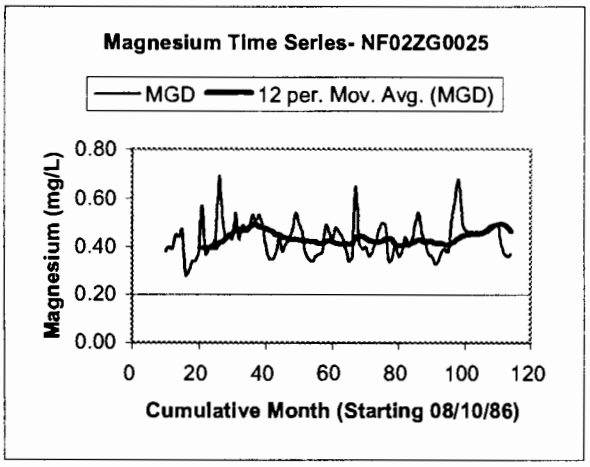


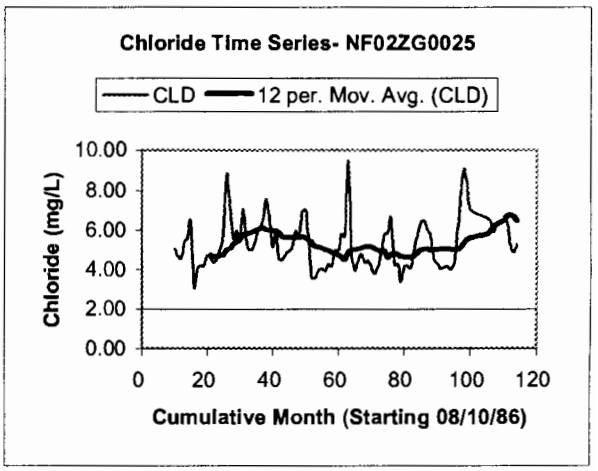

Calcium Time Series- NF02ZG0025
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

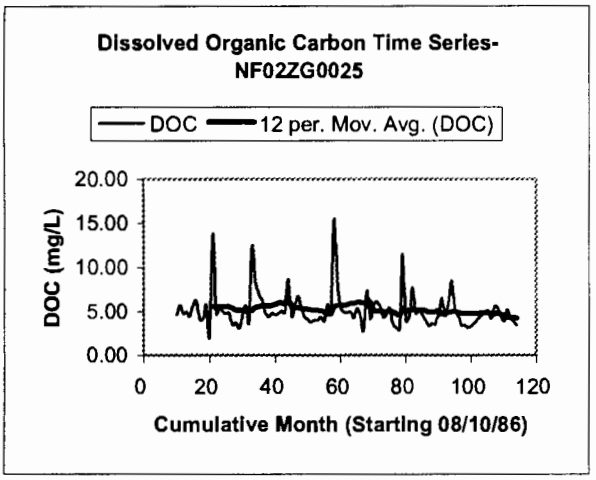

Potassium Time Series- NF02ZG0025
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

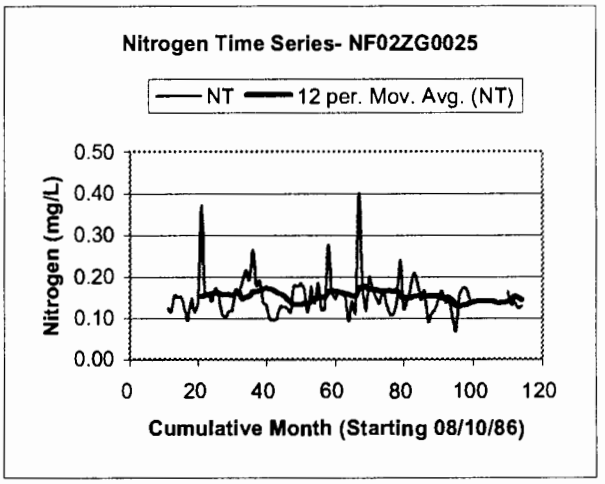

Sodium Time Series- NF02ZG0025
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

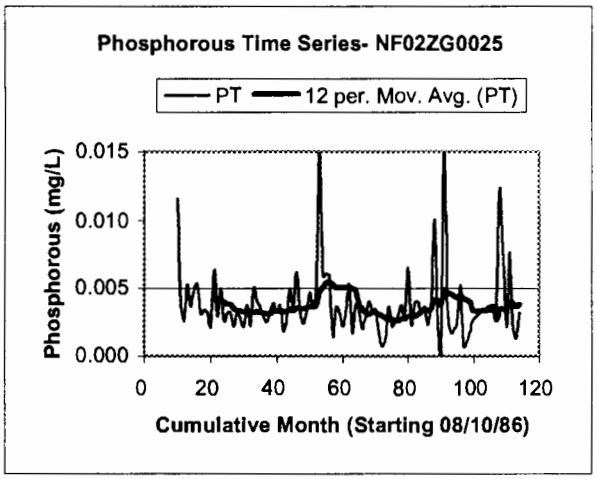

Sulphate Time Series- NF02ZG0025
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

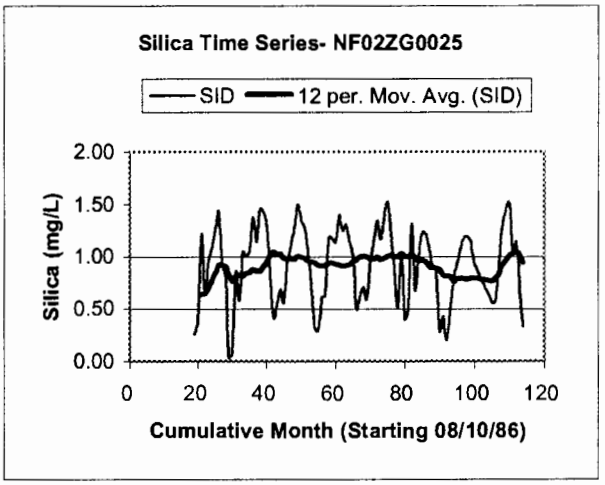

Magnesium Time Series- NF02ZG0025
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

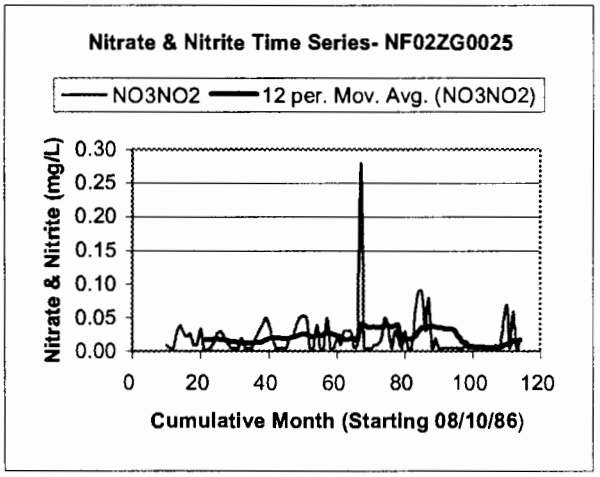

Chloride Time Series- NF02ZG0025
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

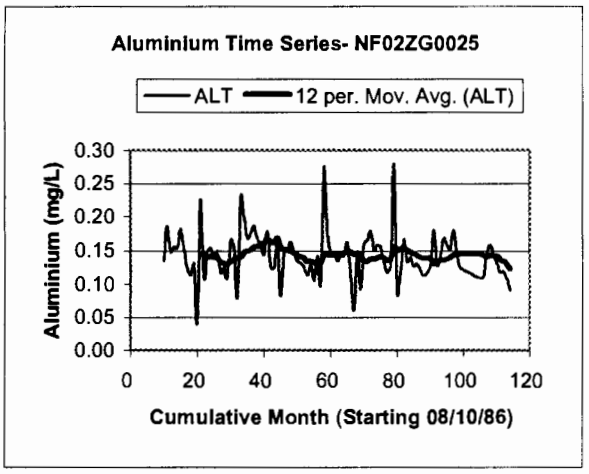

Dissolved Organic Carbon Time Series- NF02ZG0025
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

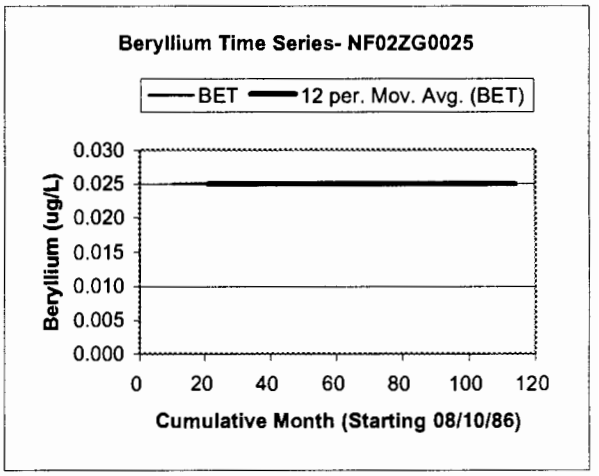

Nitrogen Time Series- NF02ZG0025
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

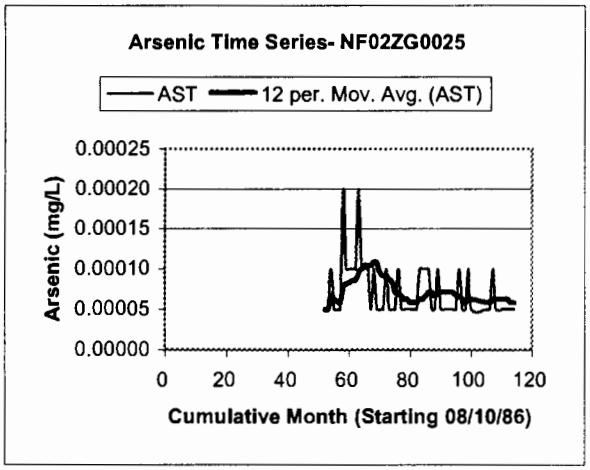

Phosphorous Time Series- NF02ZG0025
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

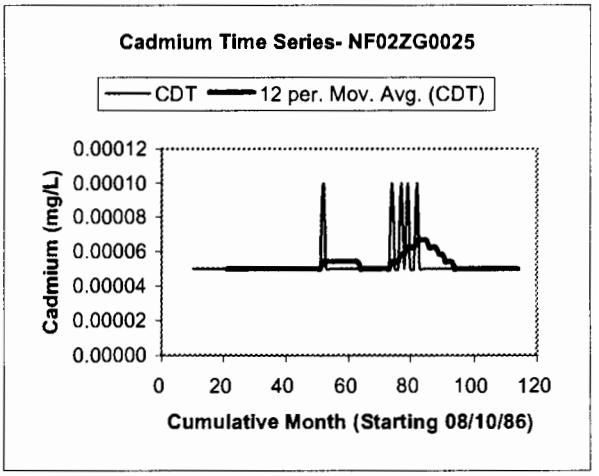

Silica Time Series- NF02ZG0025
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

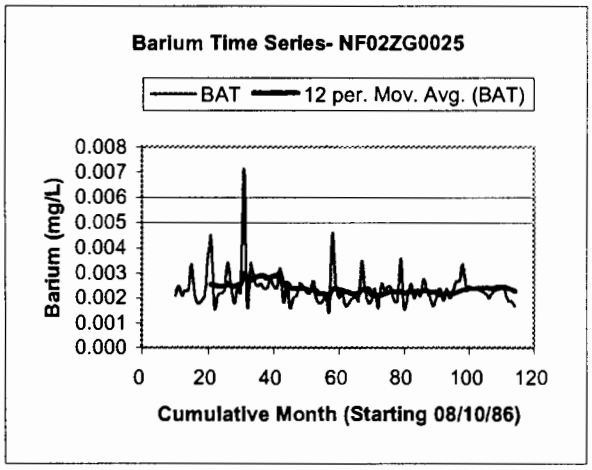

Nitrate & Nitrite Time Series- NF02ZG0025
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

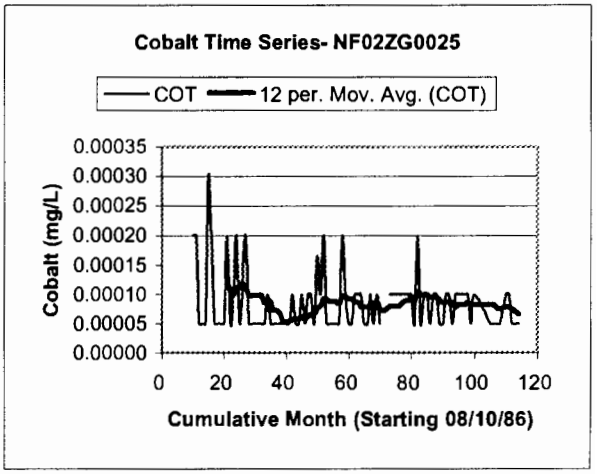

Aluminium Time Series- NF02ZG0025
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

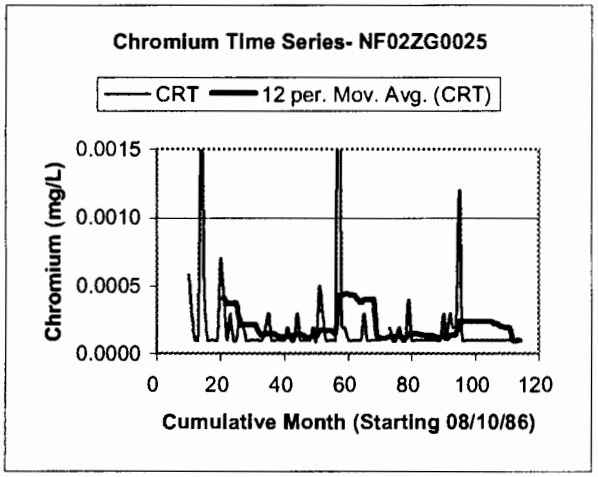

Beryllium Time Series- NF02ZG0025
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

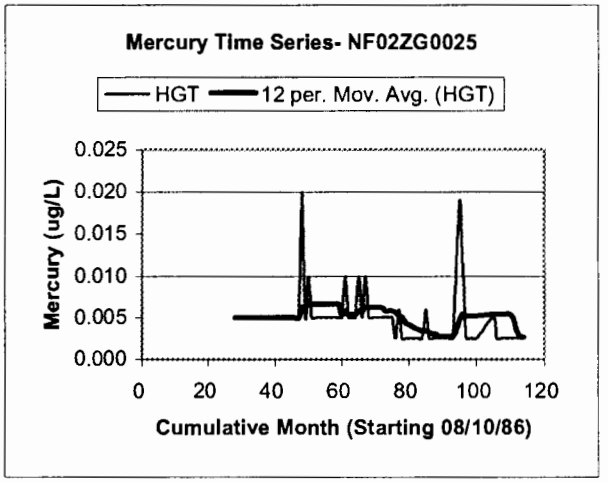

Arsenic Time Series- NF02ZG0025
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

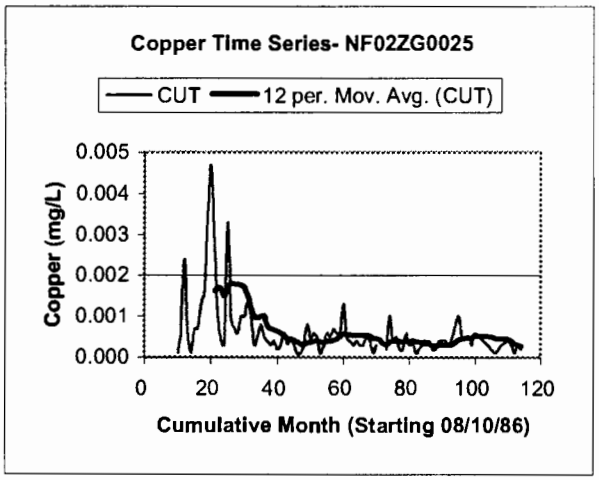

Cadmium Time Series- NF02ZG0025
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

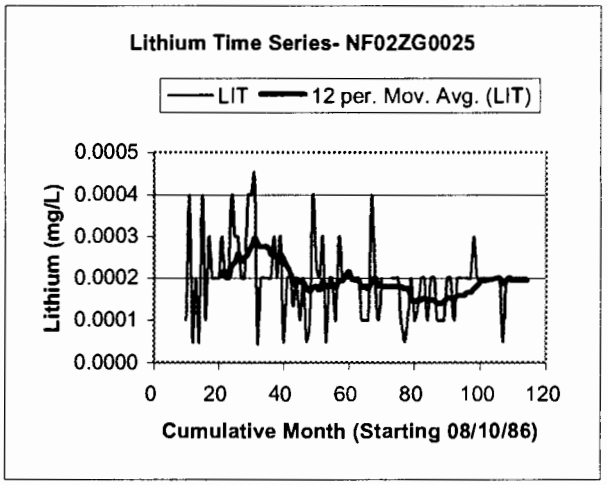

Barium Time Series- NF02ZG0025
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

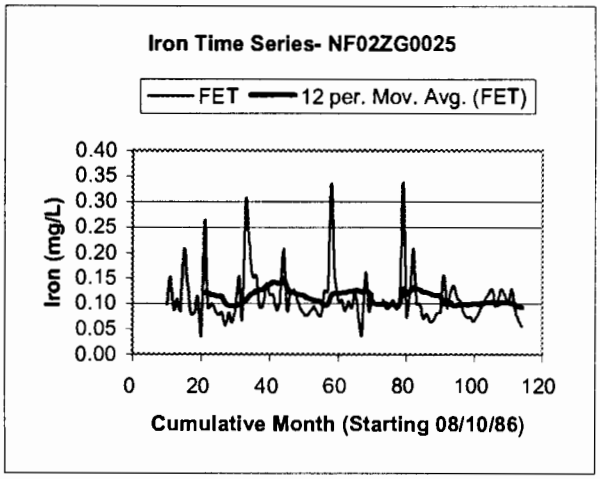

Cobalt Time Series- NF02ZG0025
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

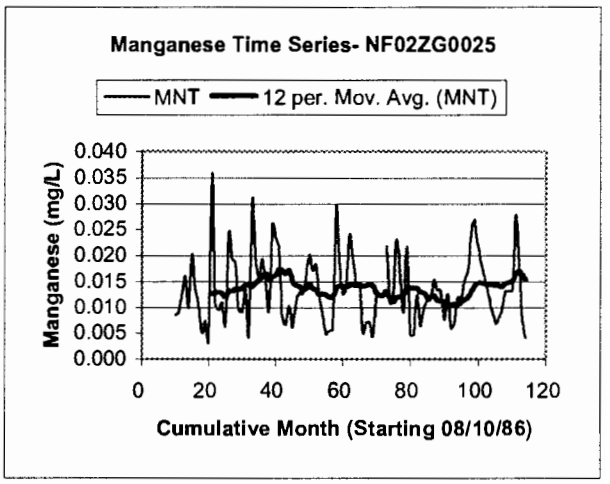

Chromium Time Series- NF02ZG0025
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

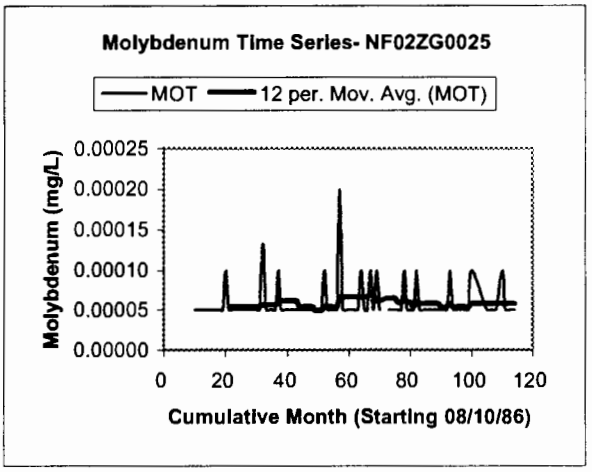

Mercury Time Series- NF02ZG0025
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

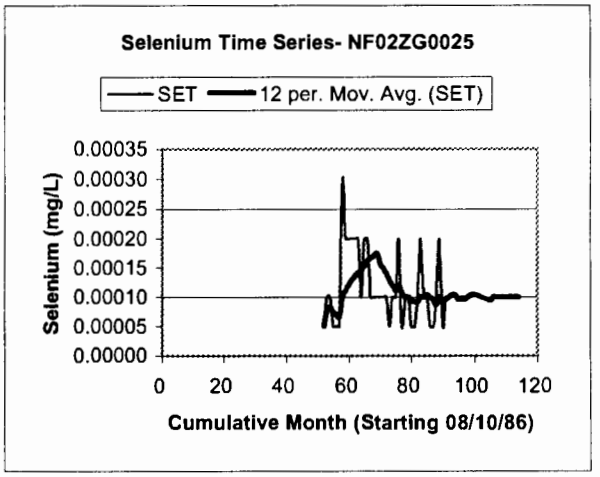

Copper Time Series- NF02ZG0025
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

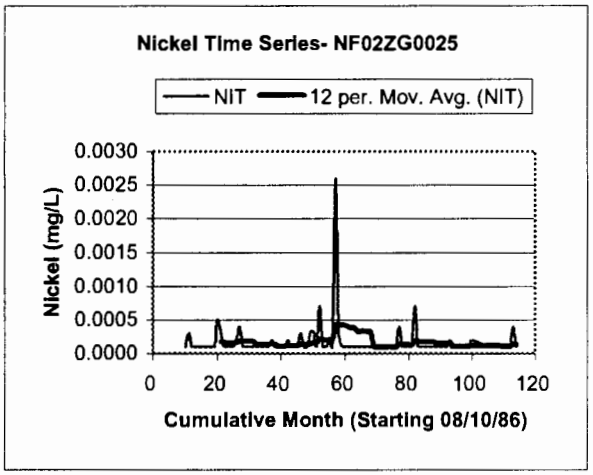

Lithium Time Series- NF02ZG0025
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

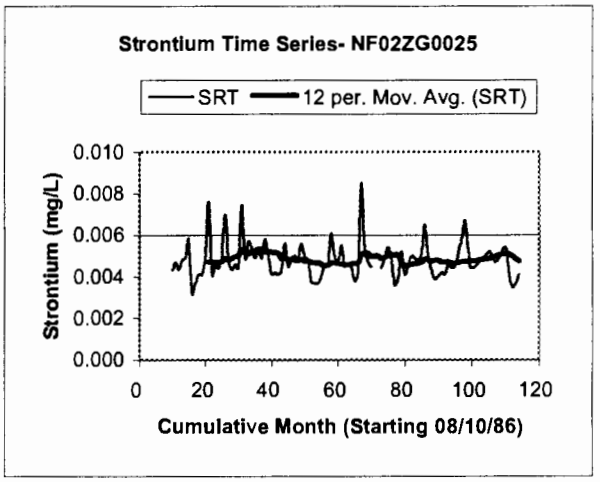

Iron Time Series- NF02ZG0025
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

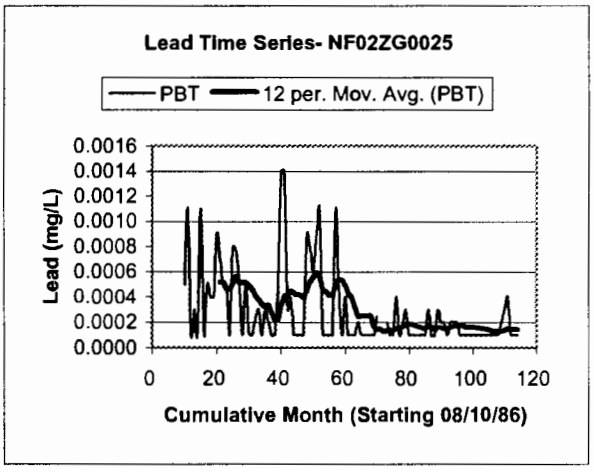

Manganese Time Series- NF02ZG0025
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

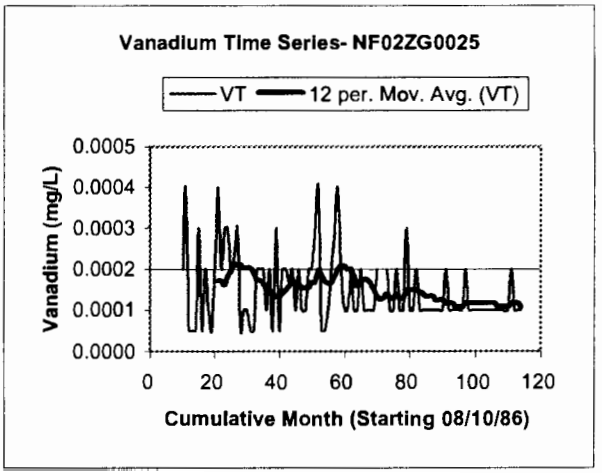

Molybdenum Time Series- NF02ZG0025
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

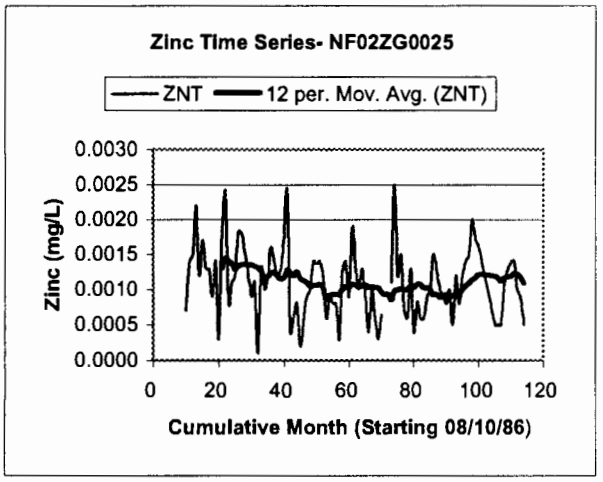

Selenium Time Series- NF02ZG0025
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)


Nickel Time Series- NF02ZG0025
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

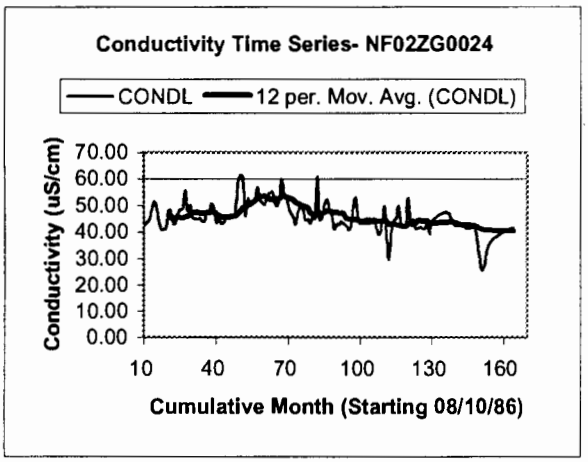

Strontium Time Series- NF02ZG0025
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

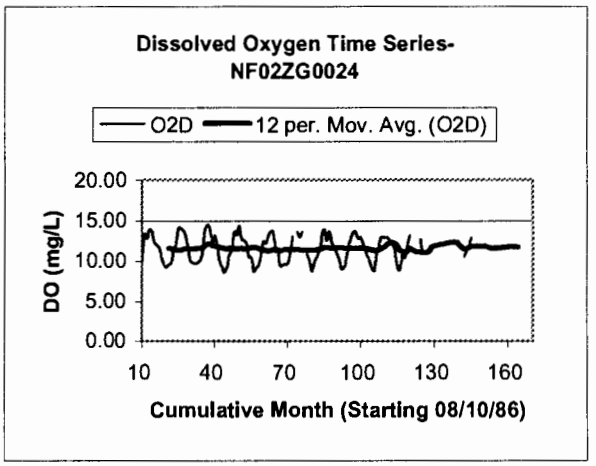

Lead Time Series- NF02ZG0025
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

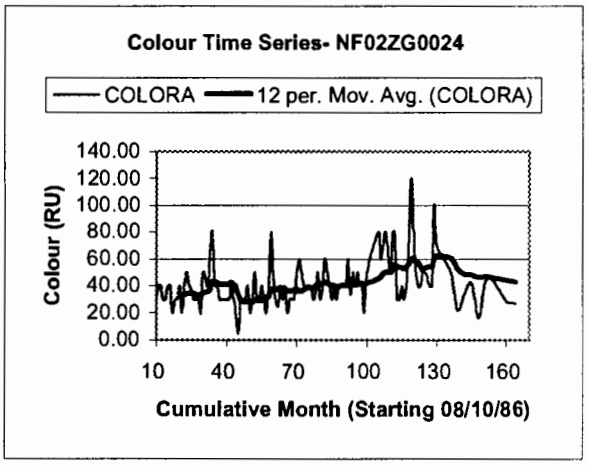

Vanadium Time Series- NF02ZG0025
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 08/10/86)

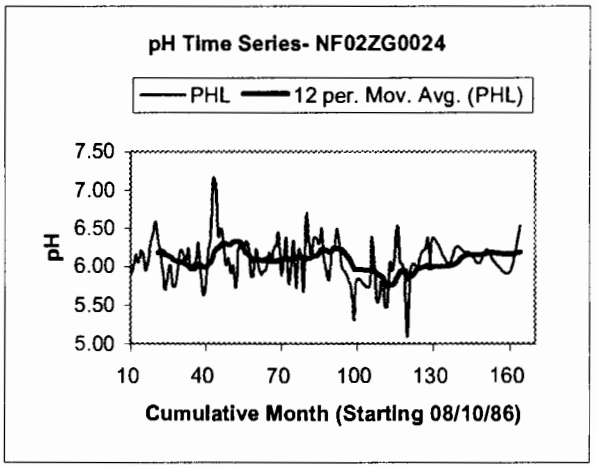

Zinc Time Series- NF02ZG0025
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 08/10/86)

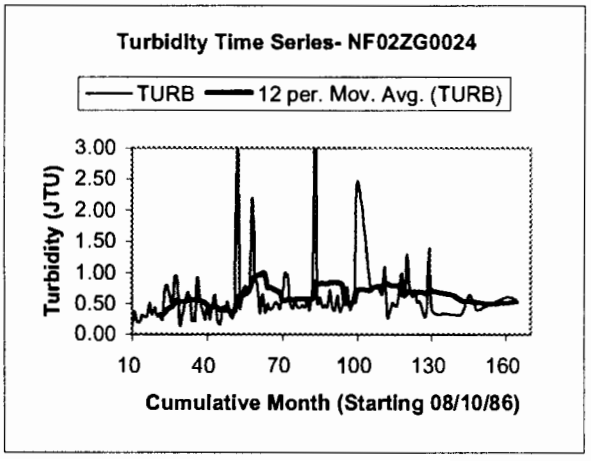
Time Series Plots for Tides Brook- NF02ZG0024

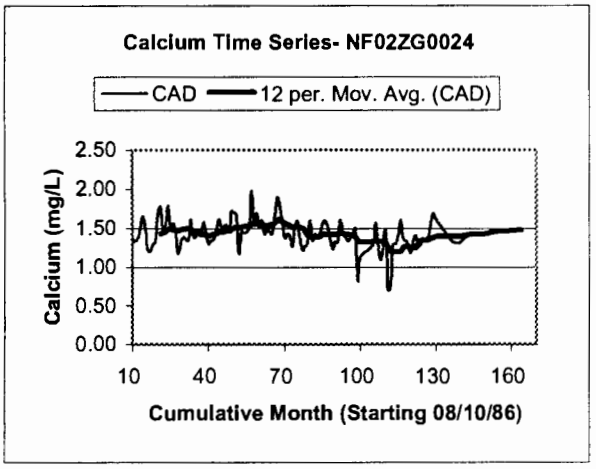


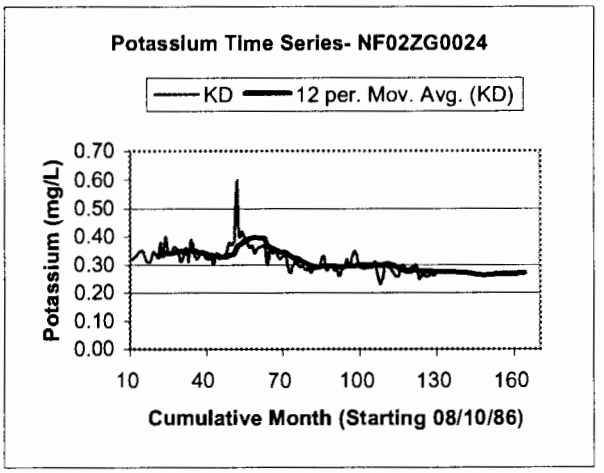


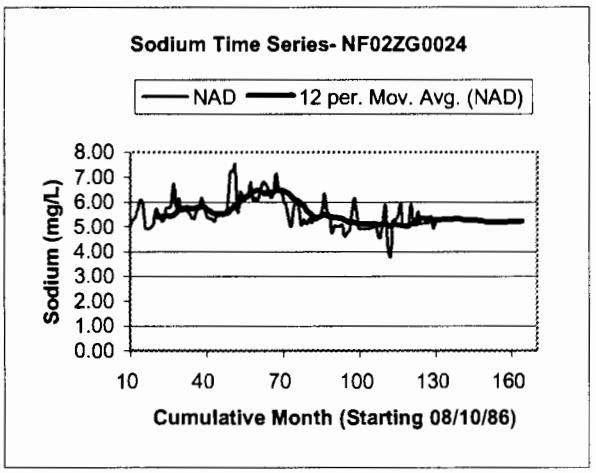


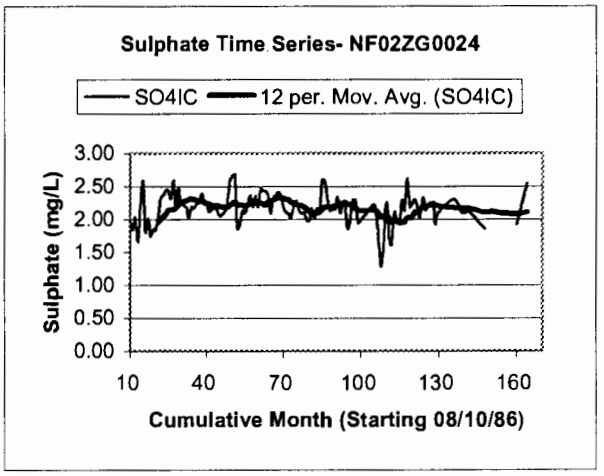


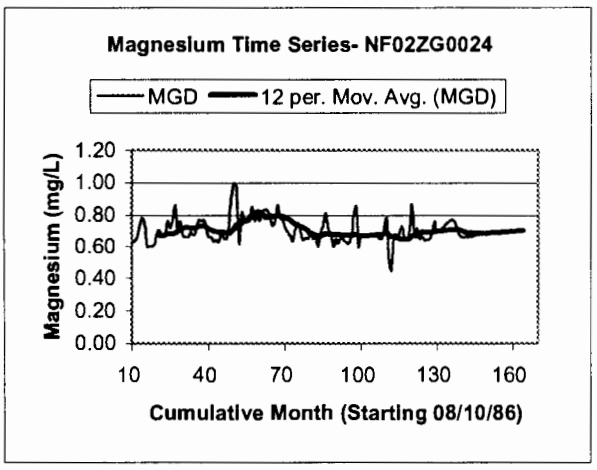


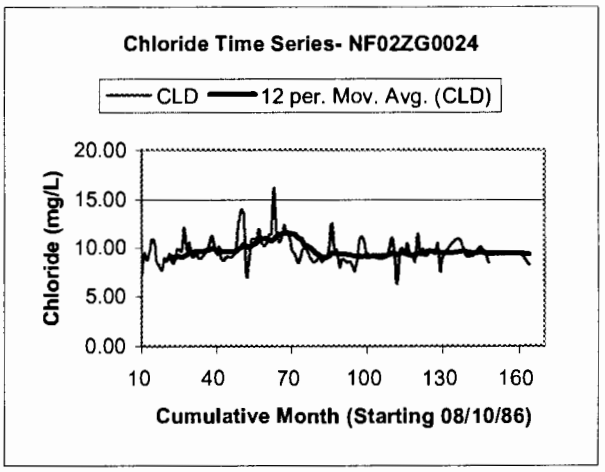

Calcium Time Series- NF02ZG0024
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

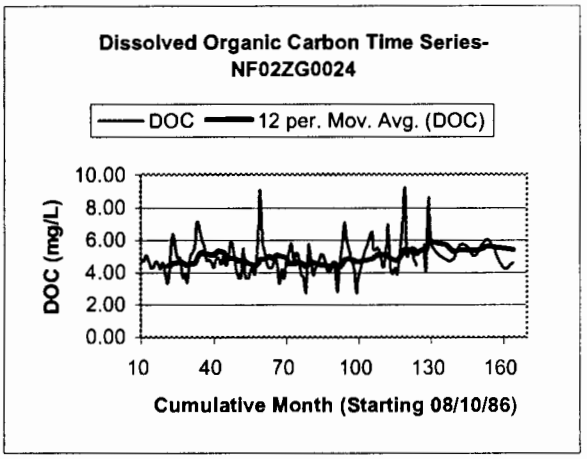

Potassium Time Series- NF02ZG0024
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

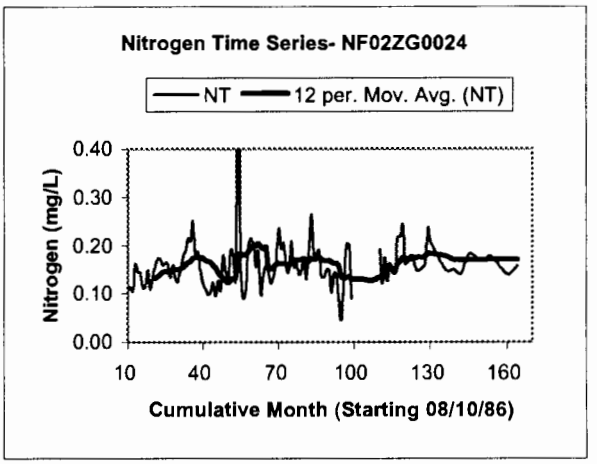

Sodium Time Series- NF02ZG0024
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

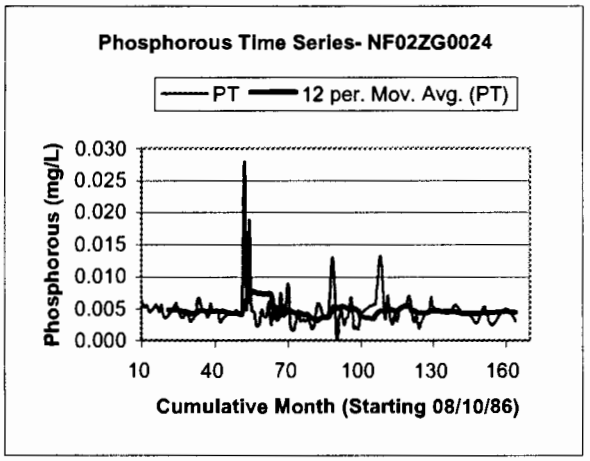

Sulphate Time Series- NF02ZG0024
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

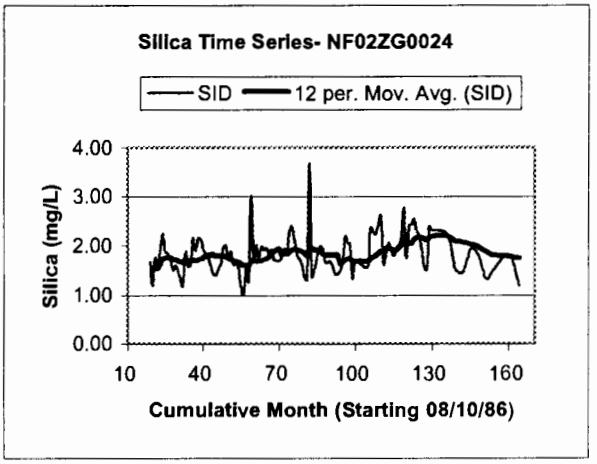

Magnesium Time Series- NF02ZG0024
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

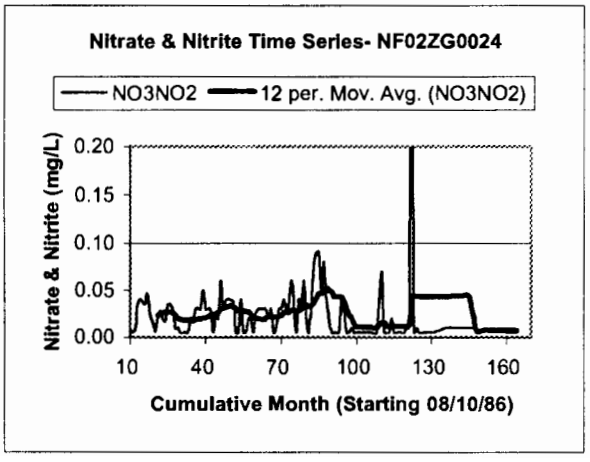

Chloride Time Series- NF02ZG0024
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

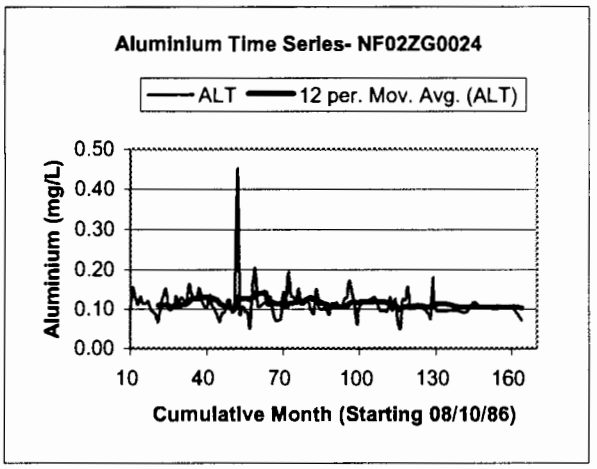

Dissolved Organic Carbon Time Series- NF02ZG0024
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

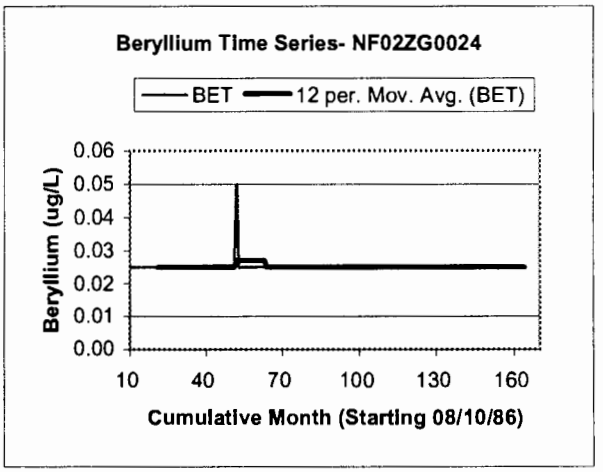

Nitrogen Time Series- NF02ZG0024
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

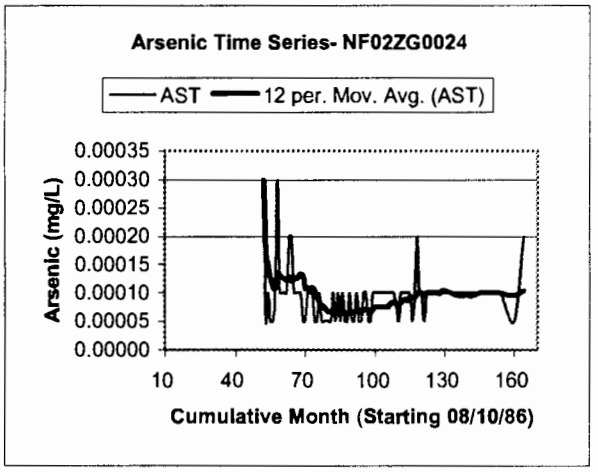

Phosphorous Time Series- NF02ZG0024
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

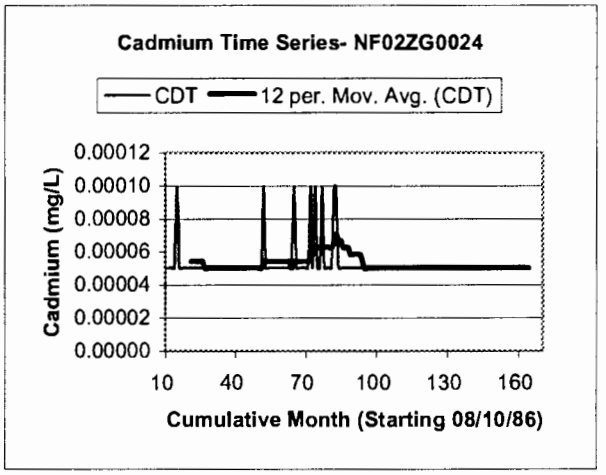

Silica Time Series- NF02ZG0024
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.00
2.00
1.00
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

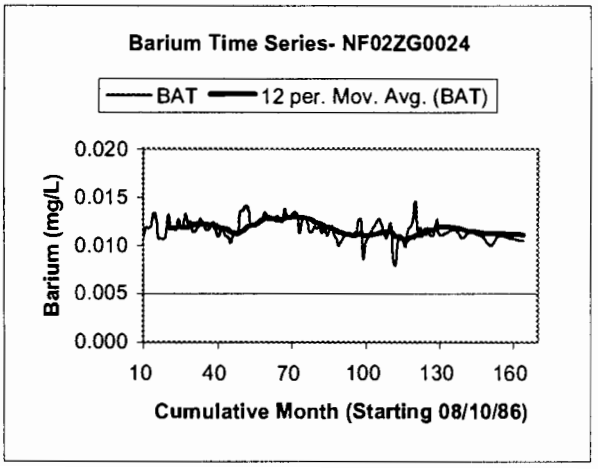

Nitrate & Nitrite Time Series- NF02ZG0024
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

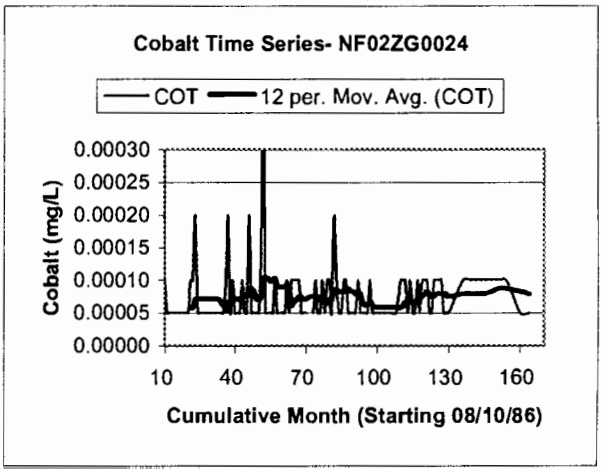

Aluminium Time Series- NF02ZG0024
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

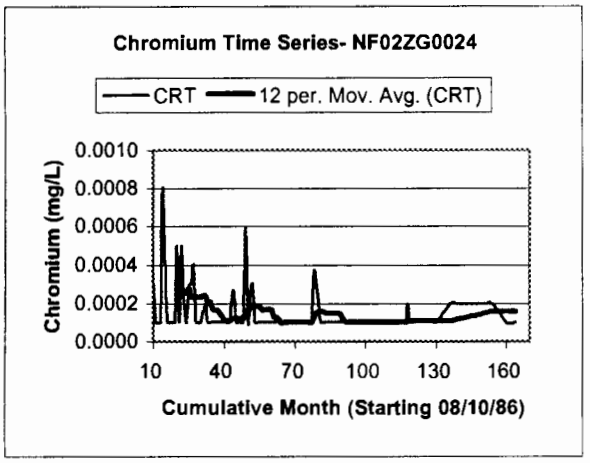

Beryllium Time Series- NF02ZG0024
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

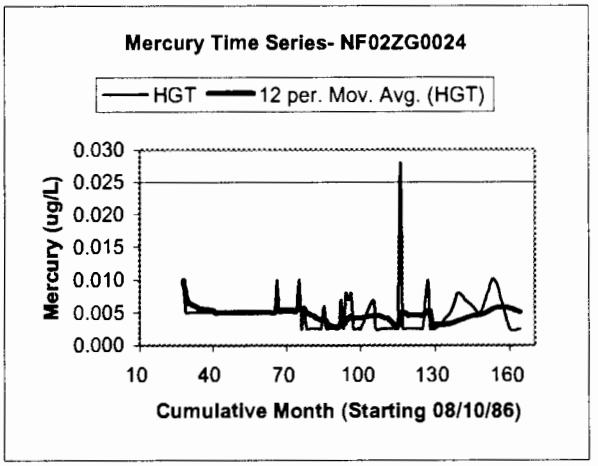

Arsenic Time Series- NF02ZG0024
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

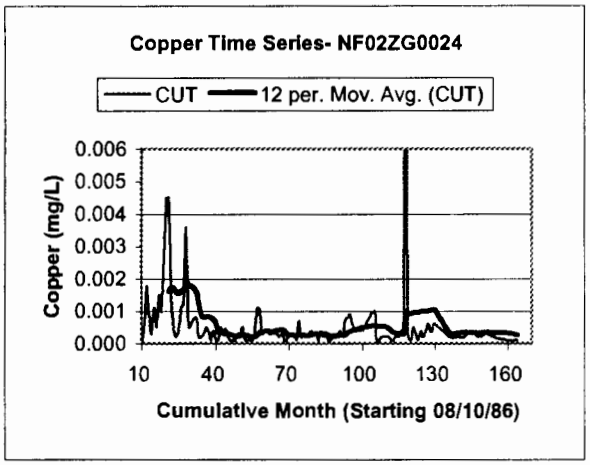

Cadmium Time Series- NF02ZG0024
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

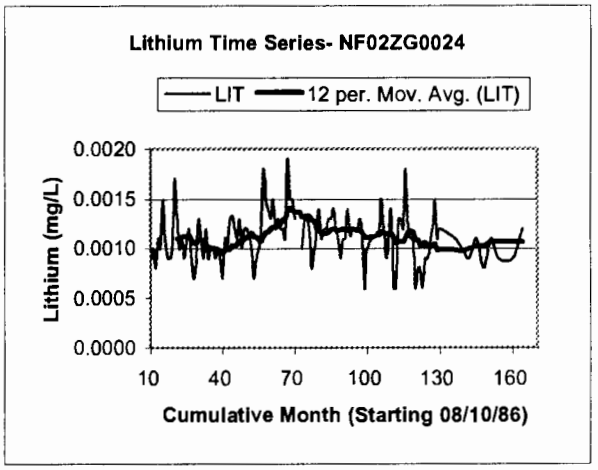

Barium Time Series- NF02ZG0024
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

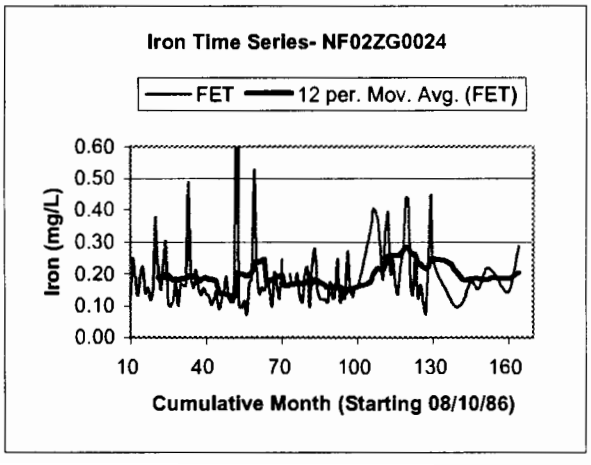

Cobalt Time Series- NF02ZG0024
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

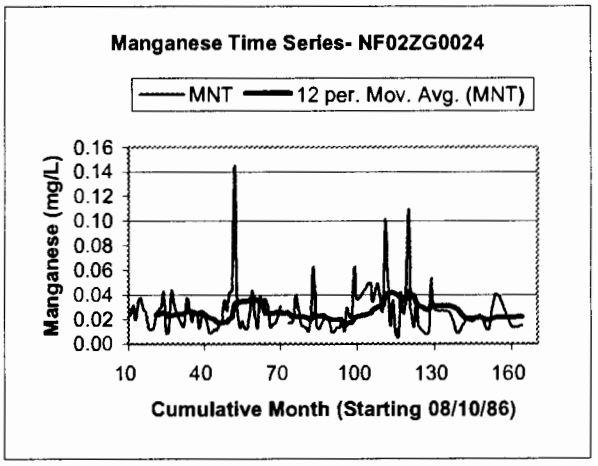

Chromium Time Series- NF02ZG0024
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

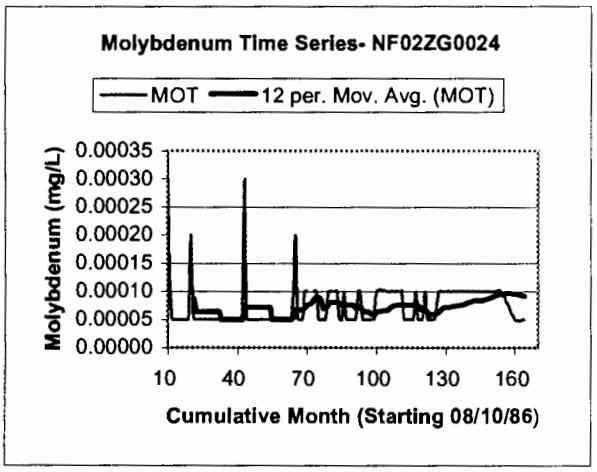

Mercury Time Series- NF02ZG0024
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

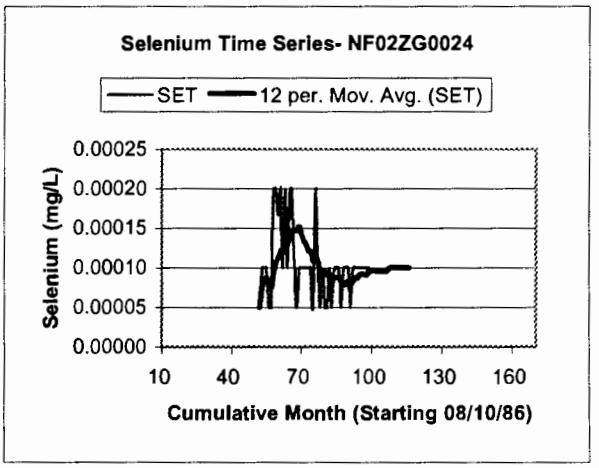

Copper Time Series- NF02ZG0024
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

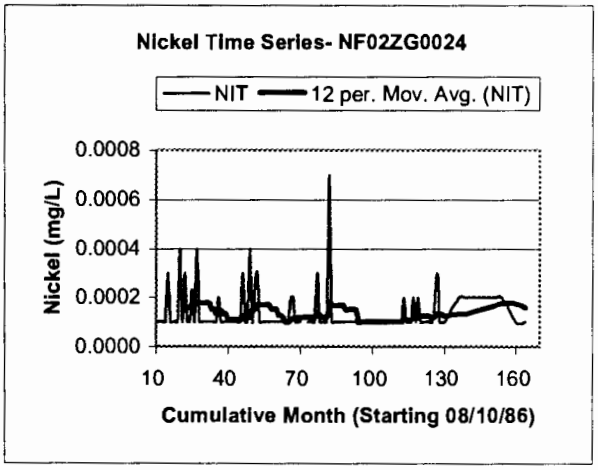

Lithium Time Series- NF02ZG0024
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

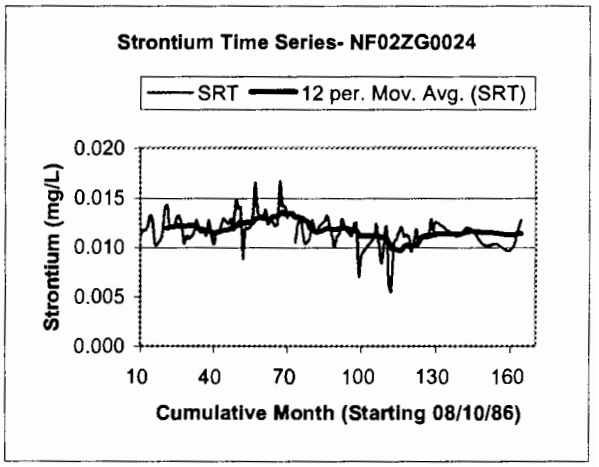

Iron Time Series- NF02ZG0024
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

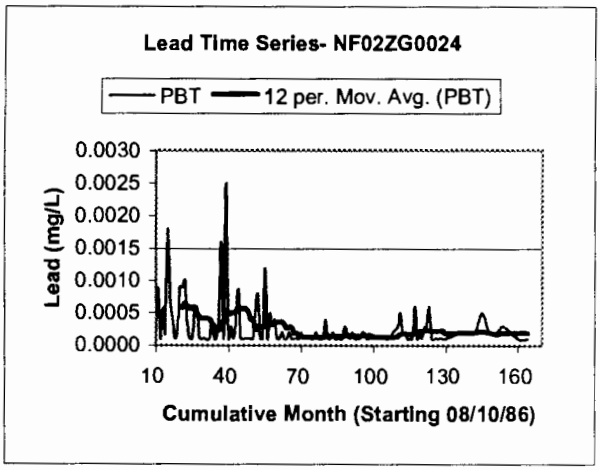

Manganese Time Series- NF02ZG0024
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

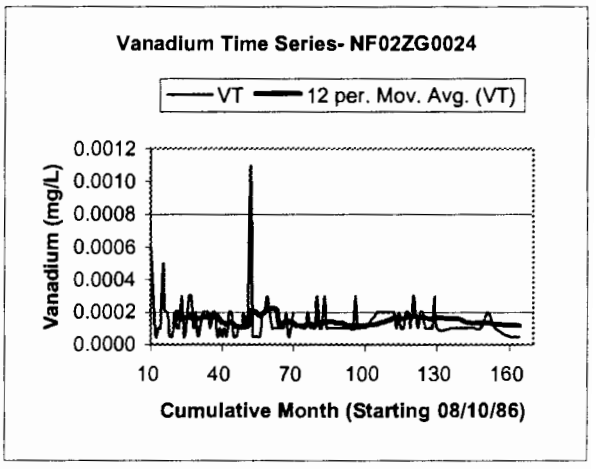

Molybdenum Time Series- NF02ZG0024
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

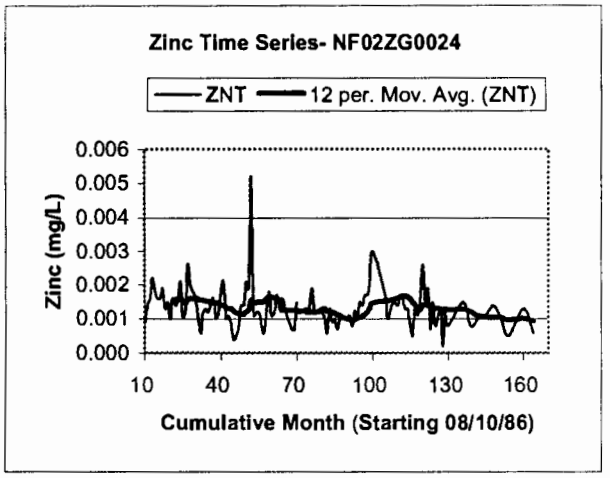

Selenium Time Series- NF02ZG0024
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)


Nickel Time Series- NF02ZG0024
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

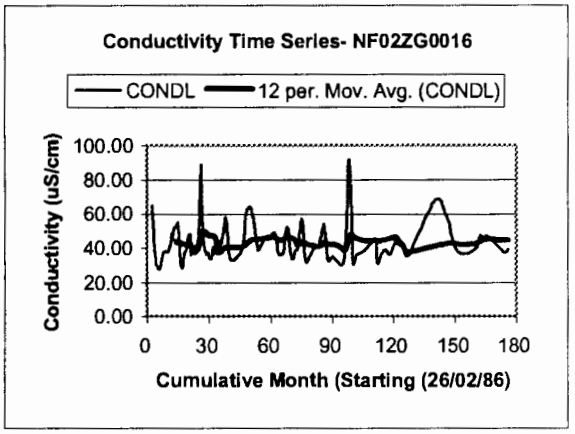

Strontium Time Series- NF02ZG0024
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

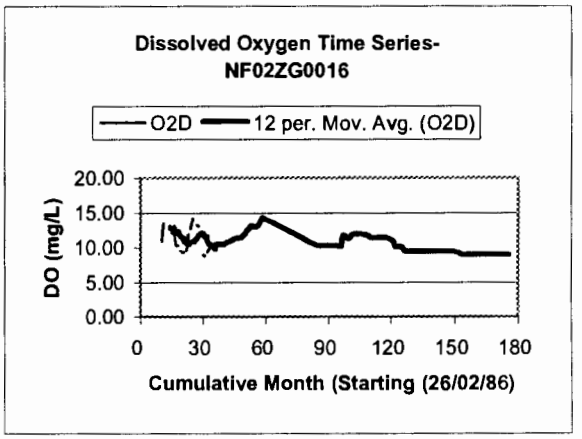

Lead Time Series- NF02ZG0024
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

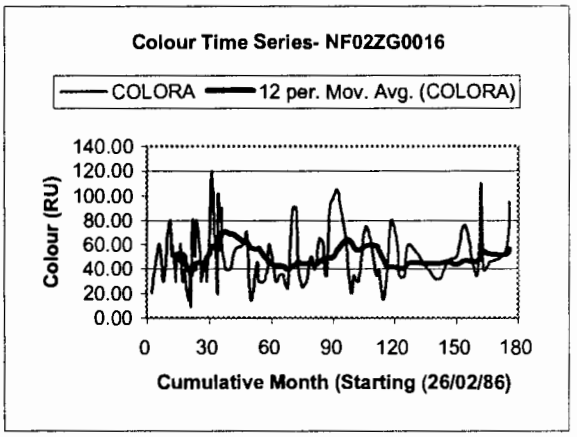

Vanadium Time Series- NF02ZG0024
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

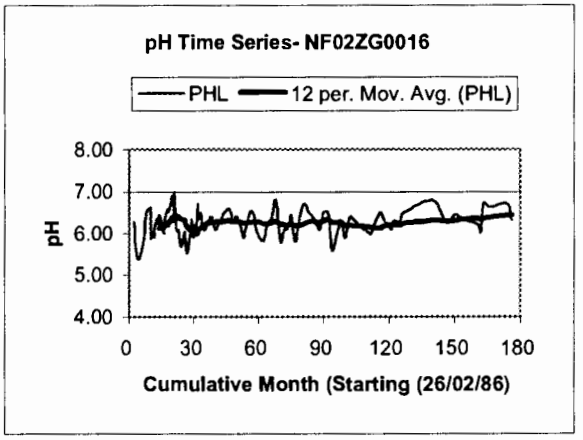

Zinc Time Series- NF02ZG0024
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10
40
70
100
130
160
Cumulative Month (Starting 08/10/86)

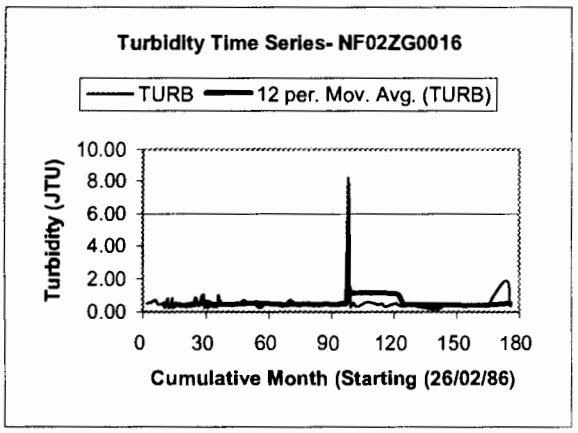
Time Series Plots of Garnish River- NF02ZG0016

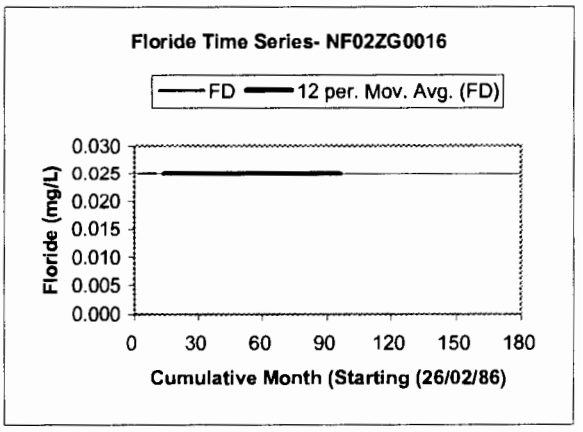


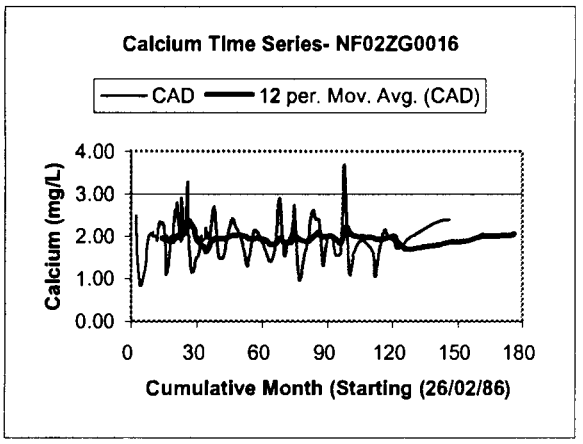


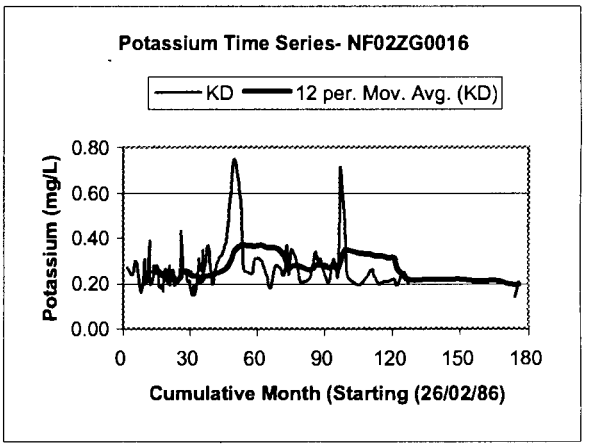


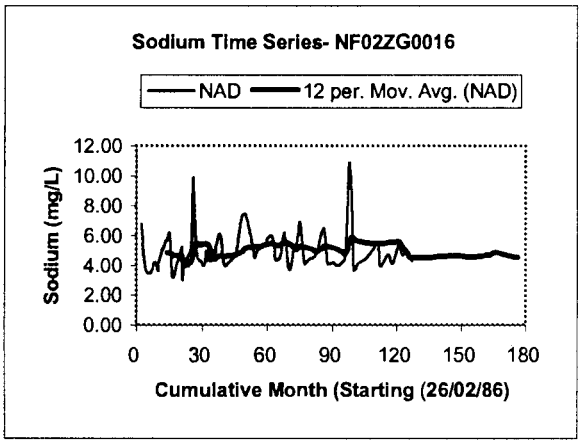


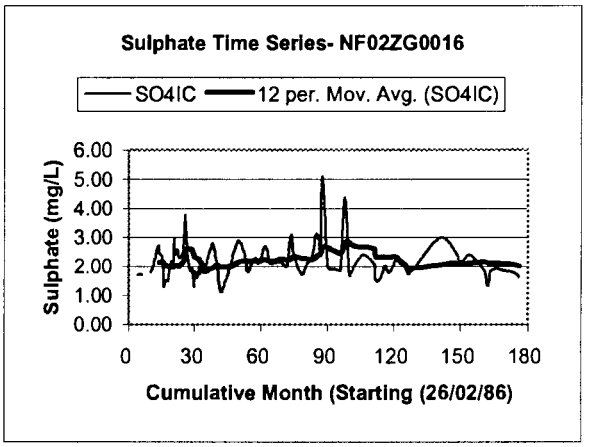


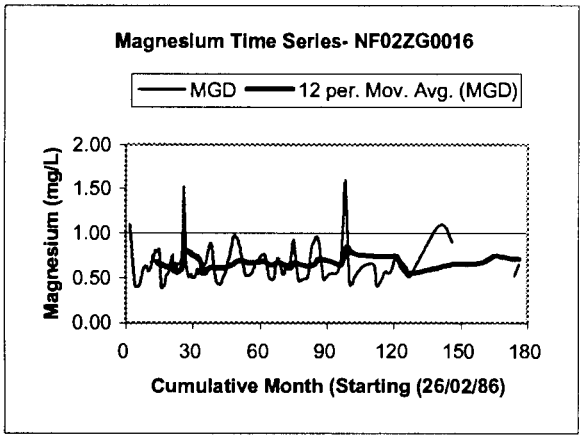


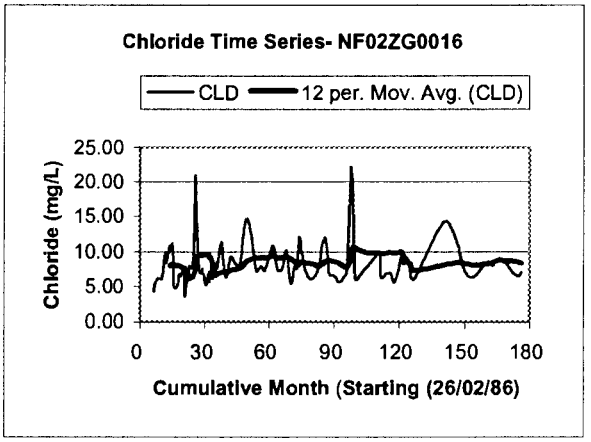

Calcium Time Series- NF02ZG0016
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

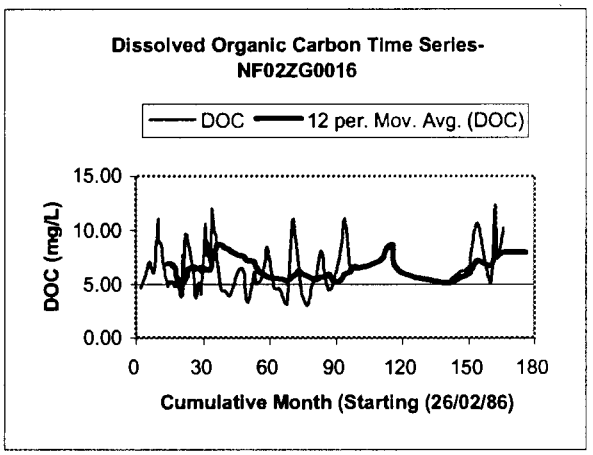

Potassium Time Series- NF02ZG0016
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

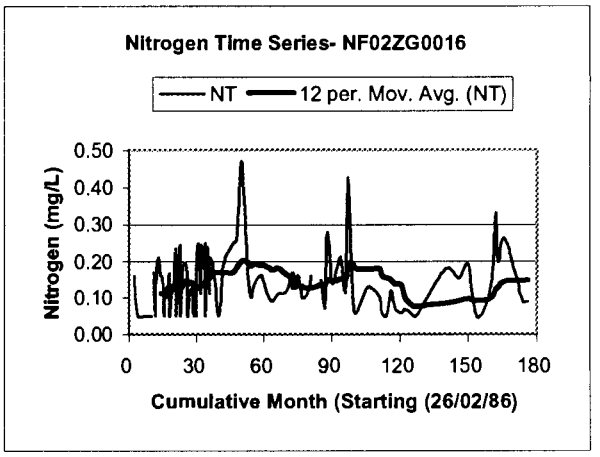

Sodium Time Series- NF02ZG0016
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

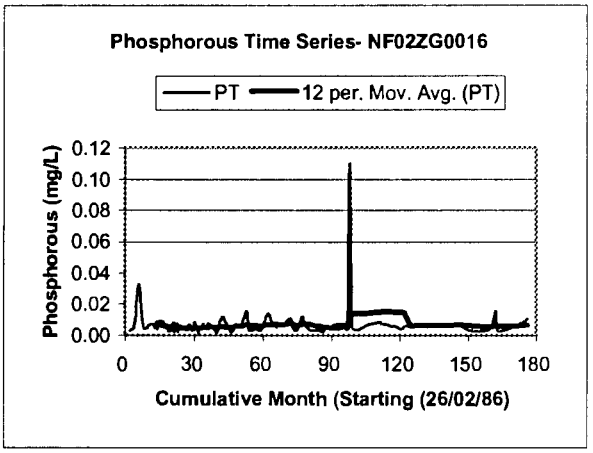

Sulphate Time Series- NF02ZG0016
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

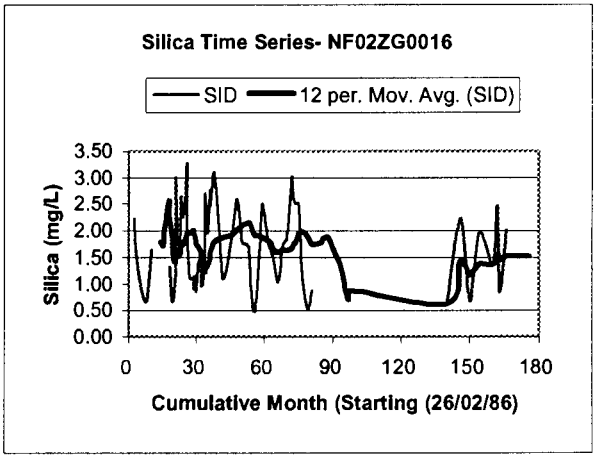

Magnesium Time Series- NF02ZG0016
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

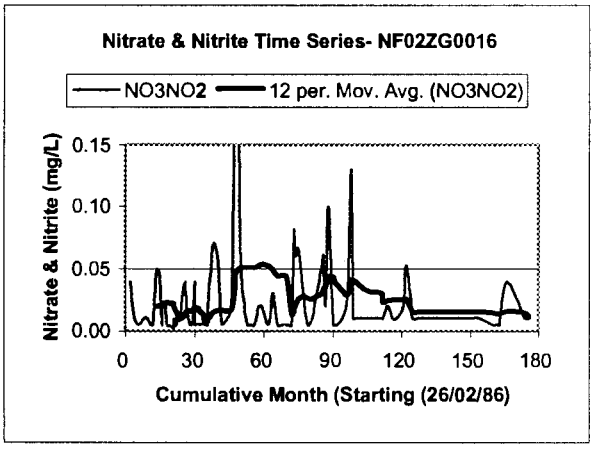

Chloride Time Series- NF02ZG0016
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

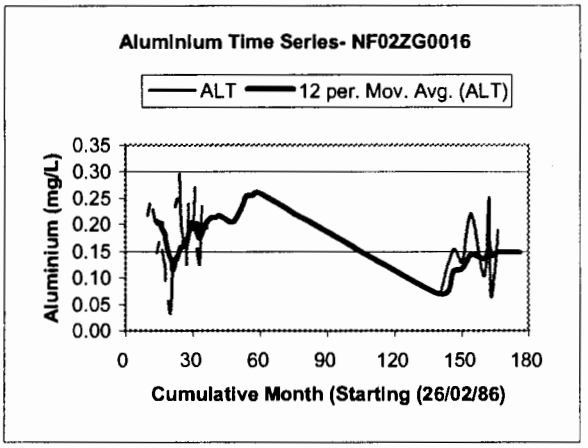

Dissolved Organic Carbon Time Series- NF02ZG0016
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

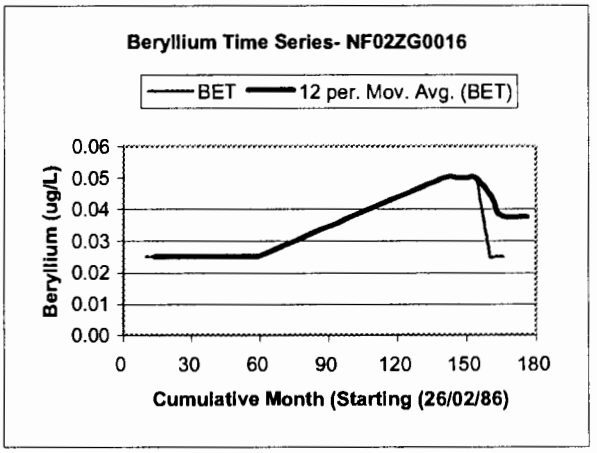

Nitrogen Time Series- NF02ZG0016
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

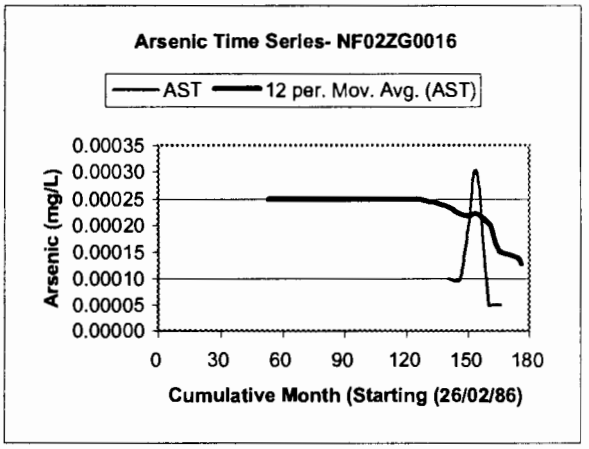

Phosphorous Time Series- NF02ZG0016
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

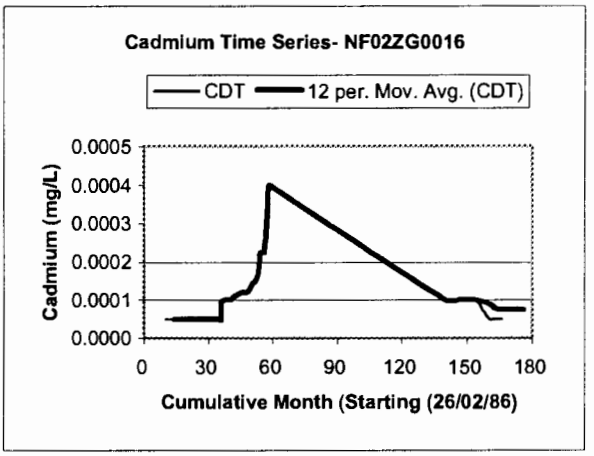

Silica Time Series- NF02ZG0016
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

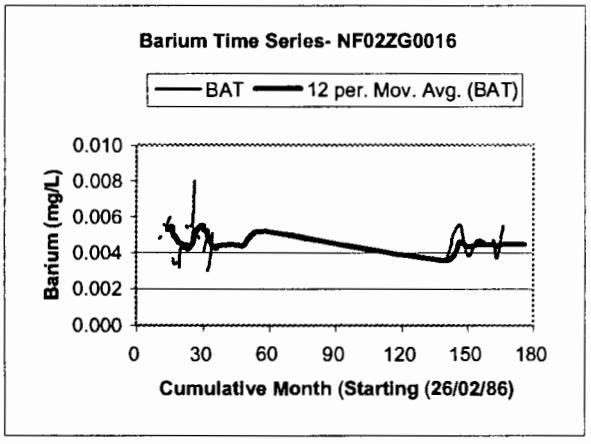

Nitrate & Nitrite Time Series- NF02ZG0016
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

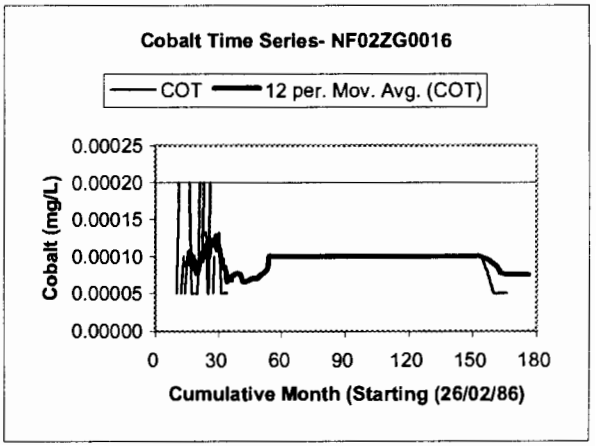

Aluminium Time Series- NF02ZG0016
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

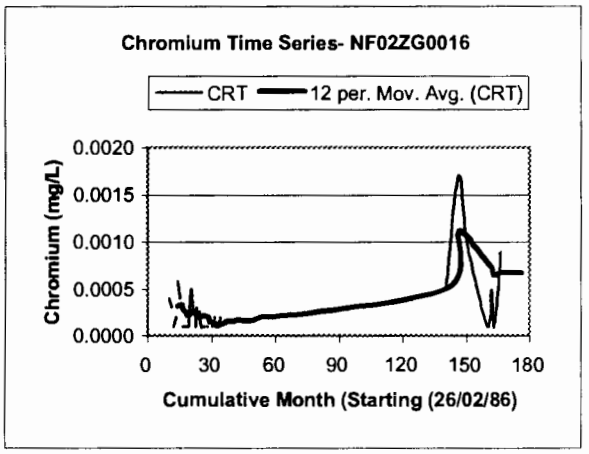

Beryllium Time Series- NF02ZG0016
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

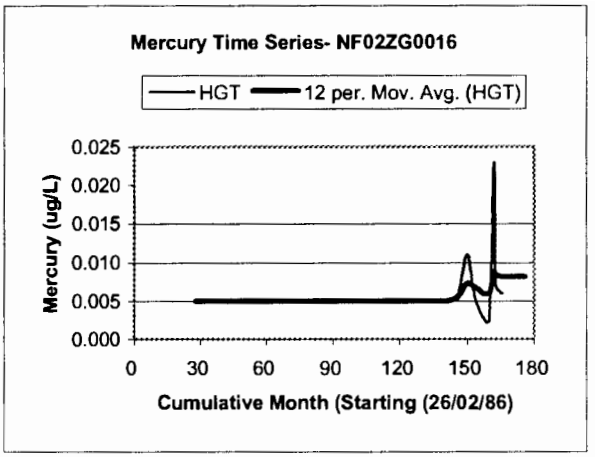

Arsenic Time Series- NF02ZG0016
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

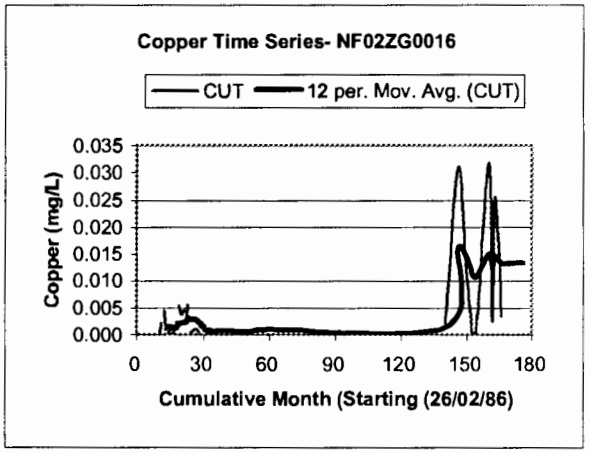

Cadmium Time Series- NF02ZG0016
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

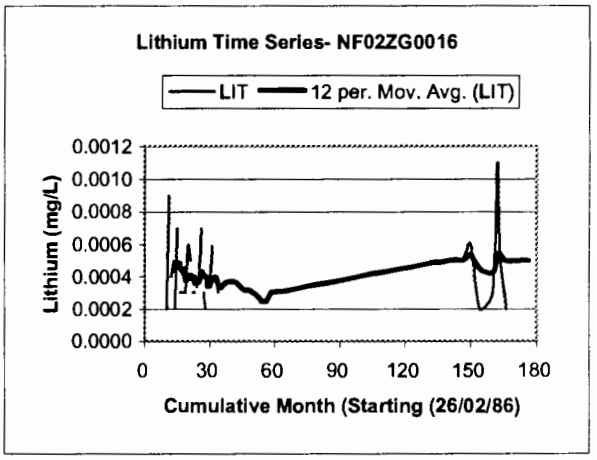

Barium Time Series- NF02ZG0016
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

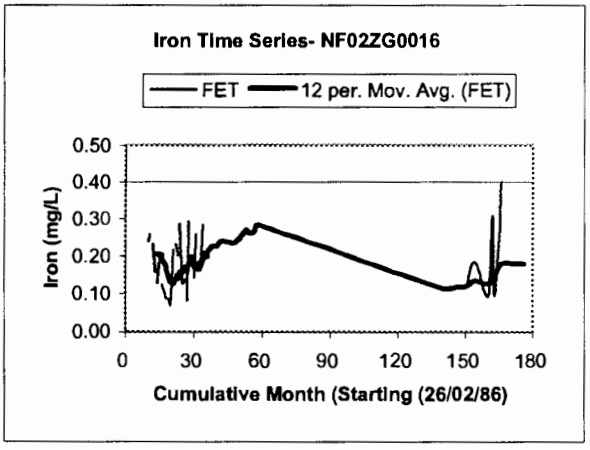

Cobalt Time Series- NF02ZG0016
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

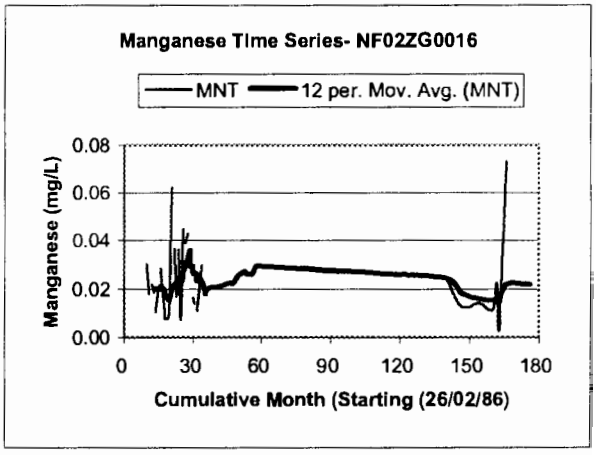

Chromium Time Series- NF02ZG0016
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

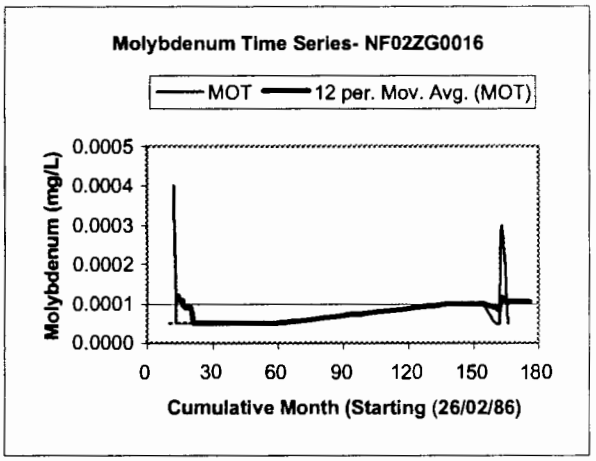

Mercury Time Series- NF02ZG0016
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

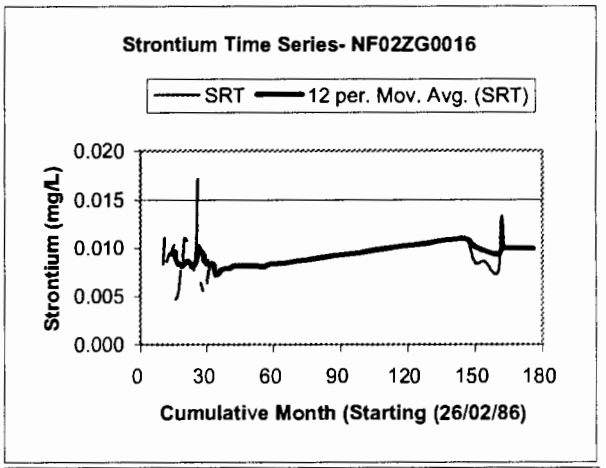

Copper Time Series- NF02ZG0016
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

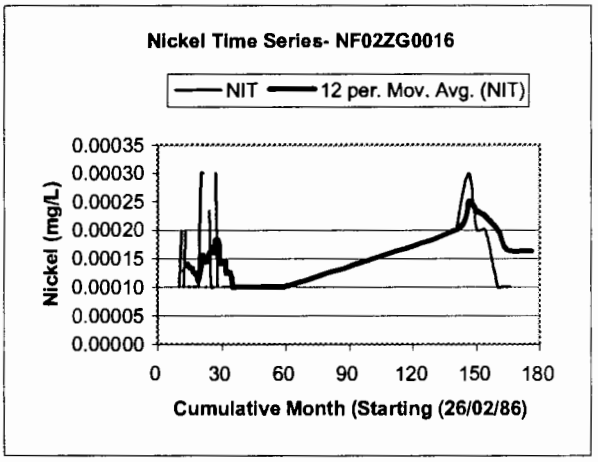

Lithium Time Series- NF02ZG0016
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

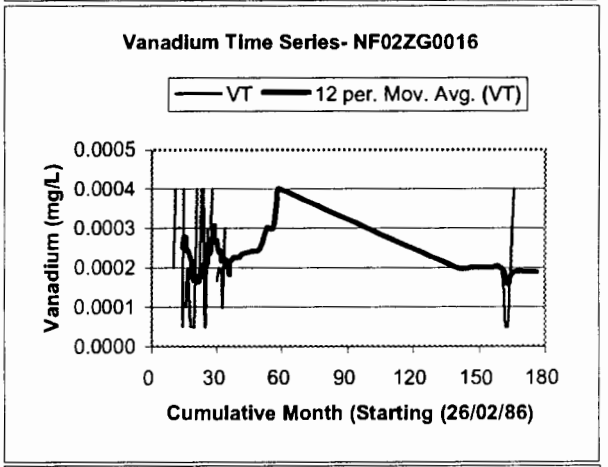

Iron Time Series- NF02ZG0016
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

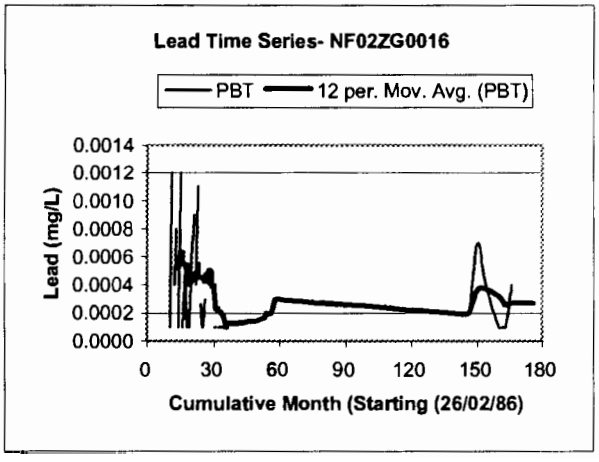

Manganese Time Series- NF02ZG0016
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

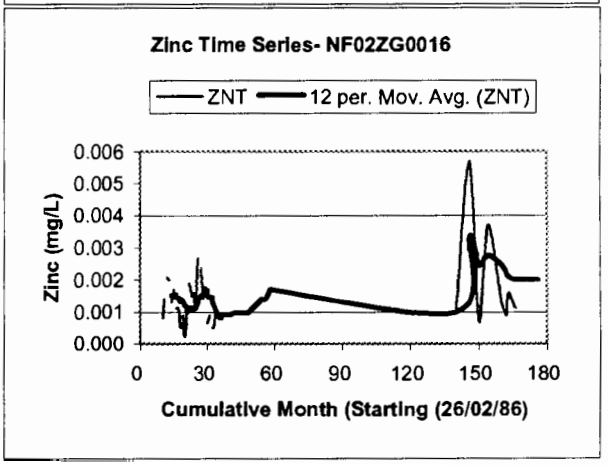

Molybdenum Time Series- NF02ZG0016
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)


Strontium Time Series- NF02ZG0016
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

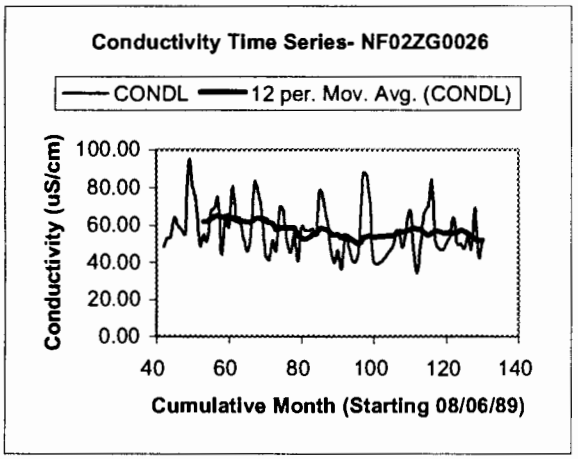

Nickel Time Series- NF02ZG0016
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

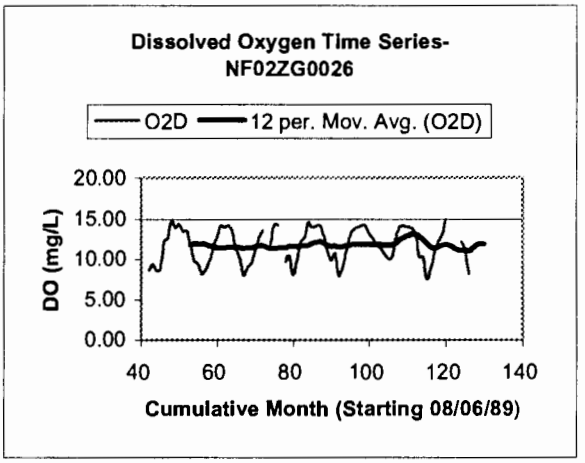

Vanadium Time Series- NF02ZG0016
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

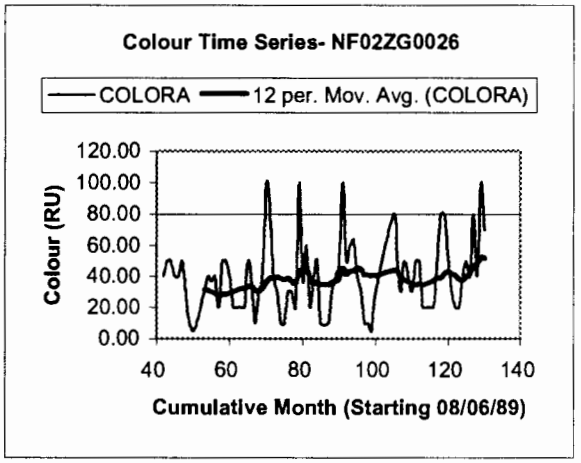

Lead Time Series- NF02ZG0016
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

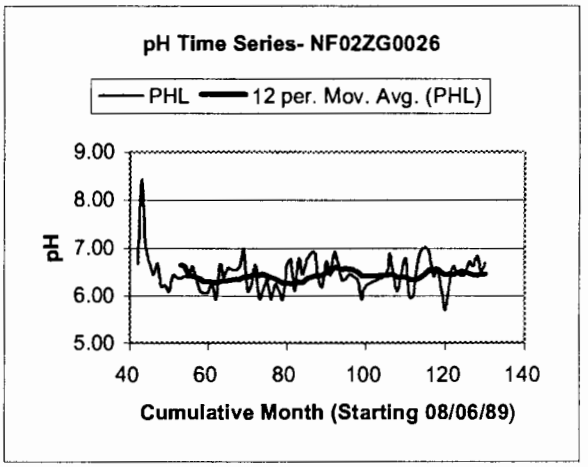

Zinc Time Series- NF02ZG0016
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting (26/02/86)

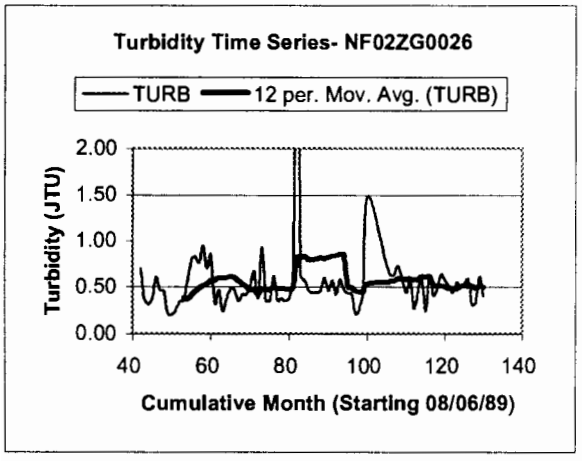
Time Series Plots of Grand Bank Brook- NF02ZG0026

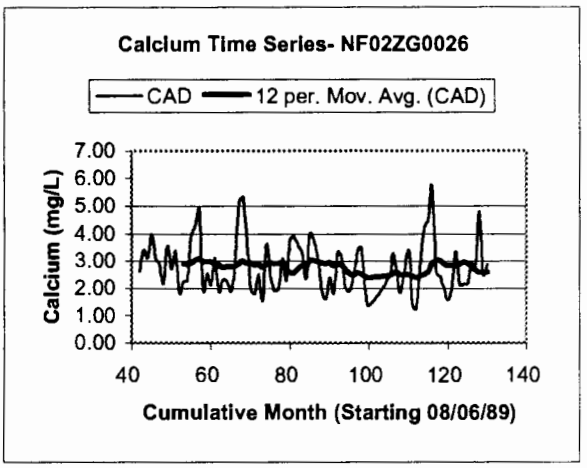


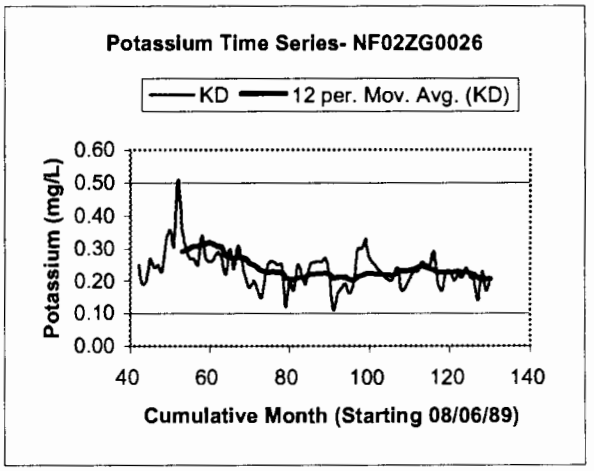


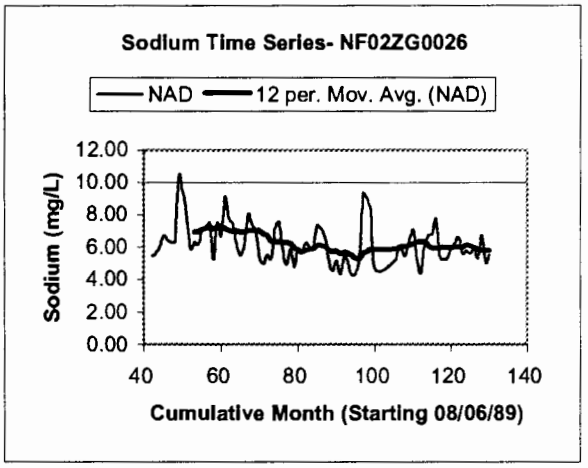


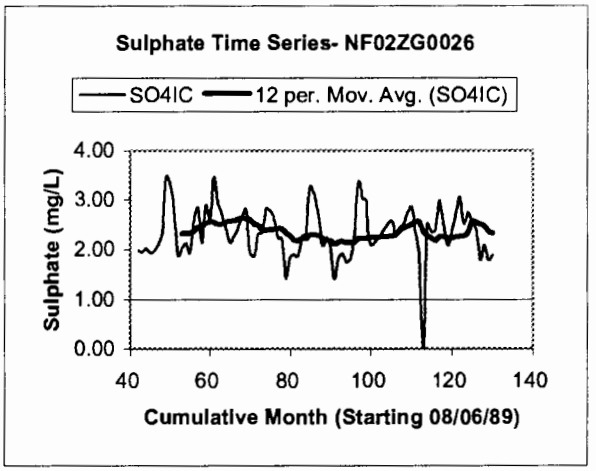


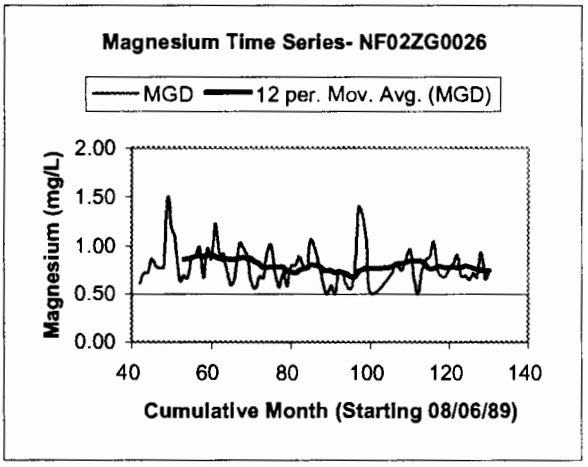


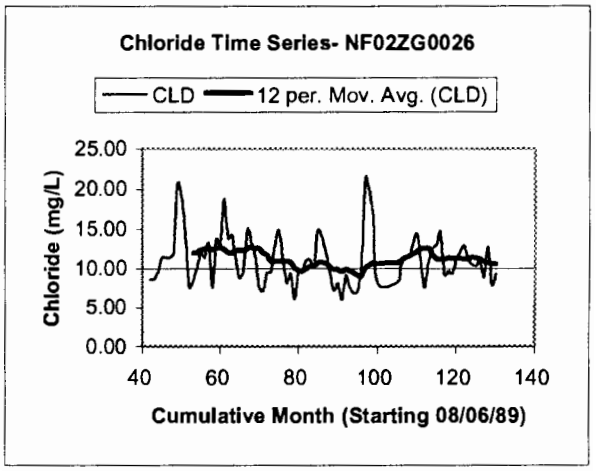

Calcium Time Series- NF02ZG0026
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

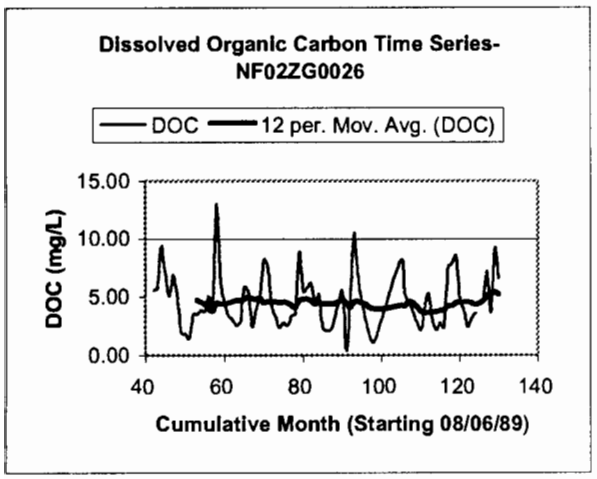

Potassium Time Series- NF02ZG0026
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

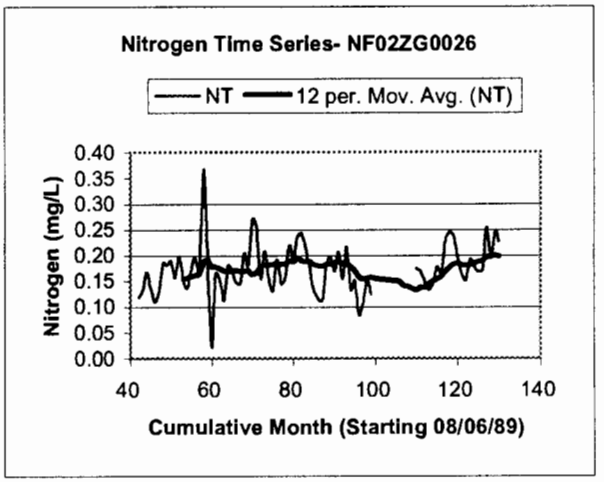

Sodium Time Series- NF02ZG0026
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

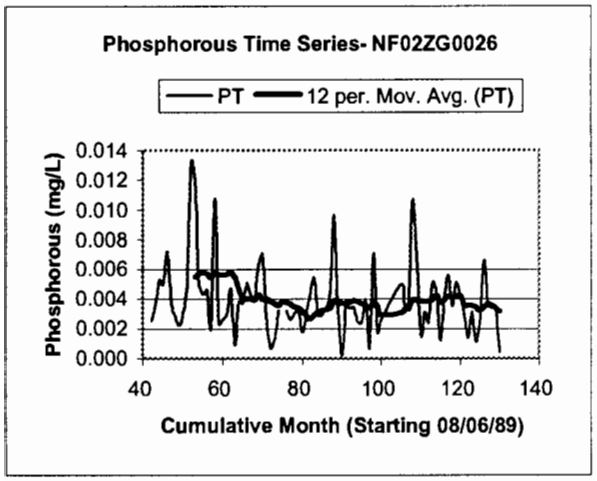

Sulphate Time Series- NF02ZG0026
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

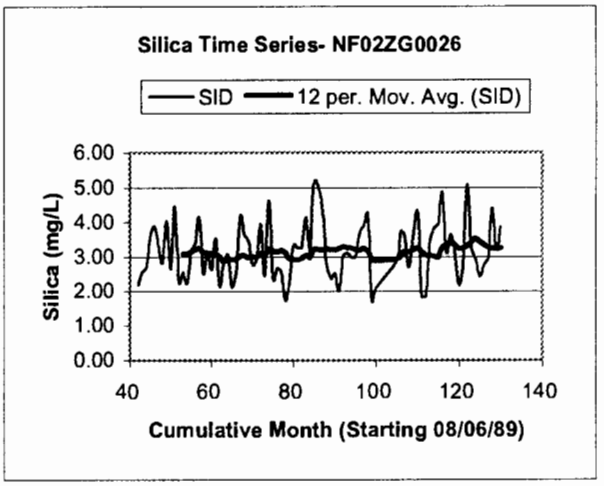

Magnesium Time Series- NF02ZG0026
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

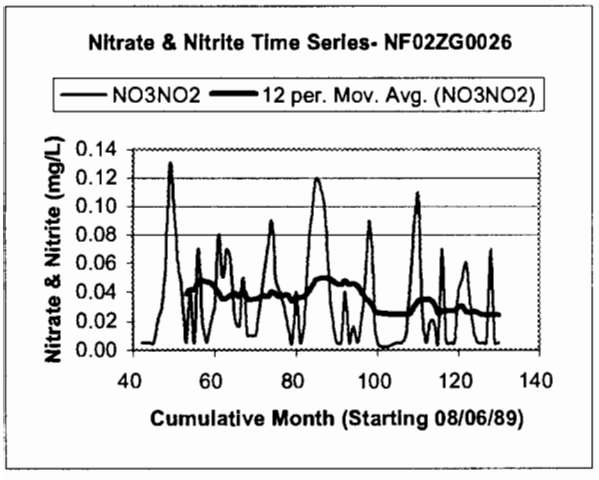

Chloride Time Series- NF02ZG0026
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

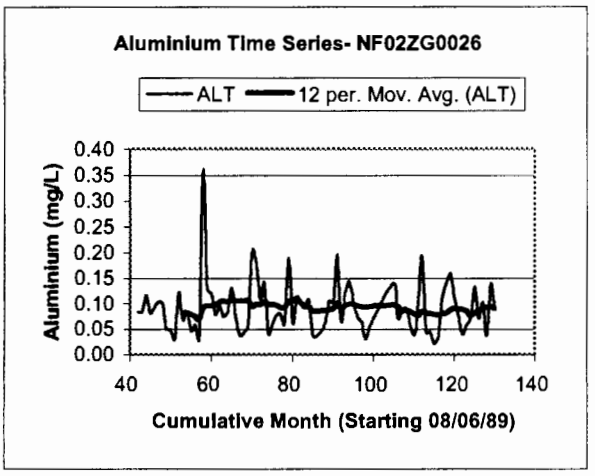

Dissolved Organic Carbon Time Series- NF02ZG0026
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

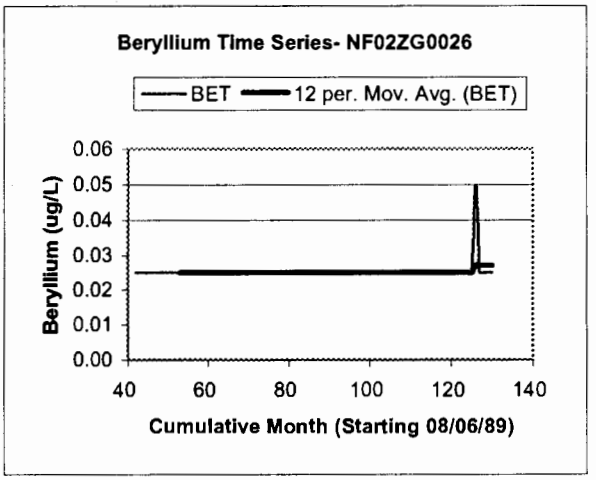

Nitrogen Time Series- NF02ZG0026
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

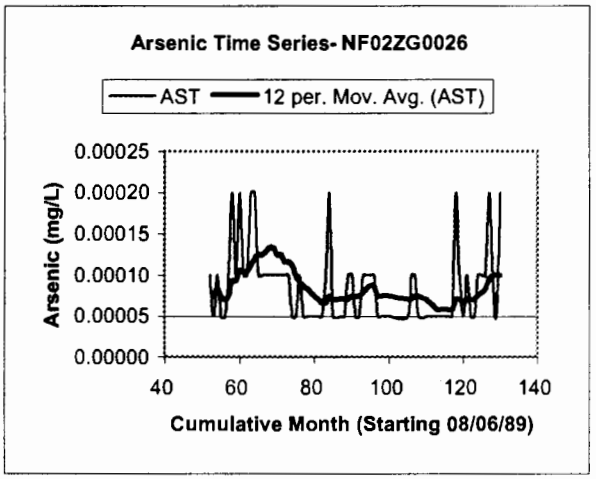

Phosphorous Time Series- NF02ZG0026
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

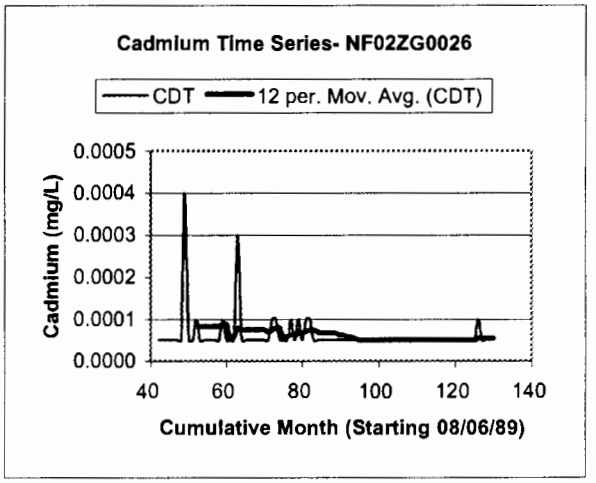

Silica Time Series- NF02ZG0026
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

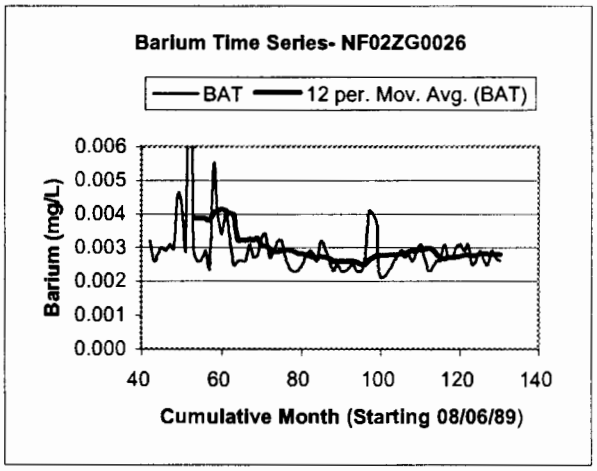

Nitrate & Nitrite Time Series- NF02ZG0026
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

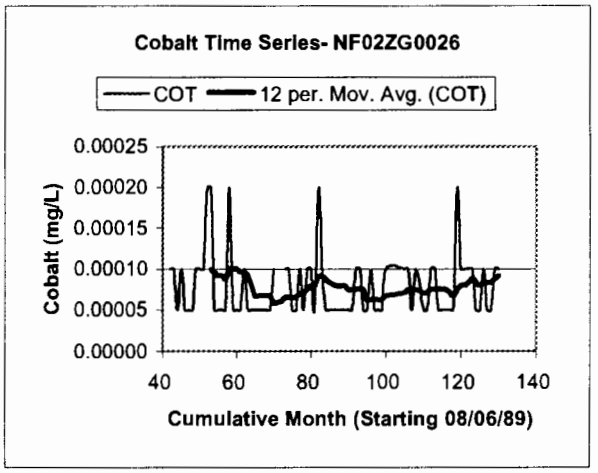

Aluminium Time Series- NF02ZG0026
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

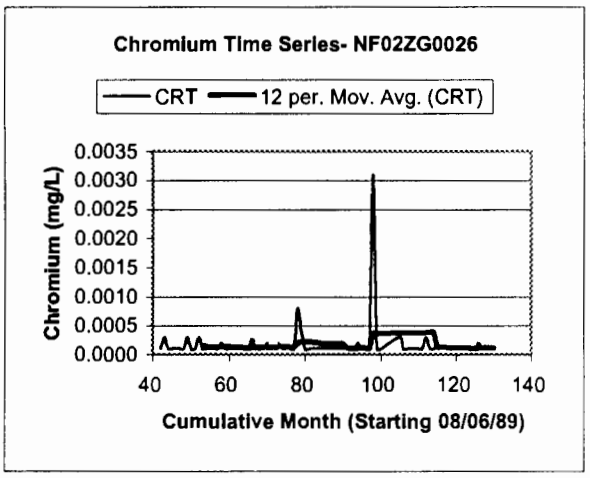

Beryllium Time Series- NF02ZG0026
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

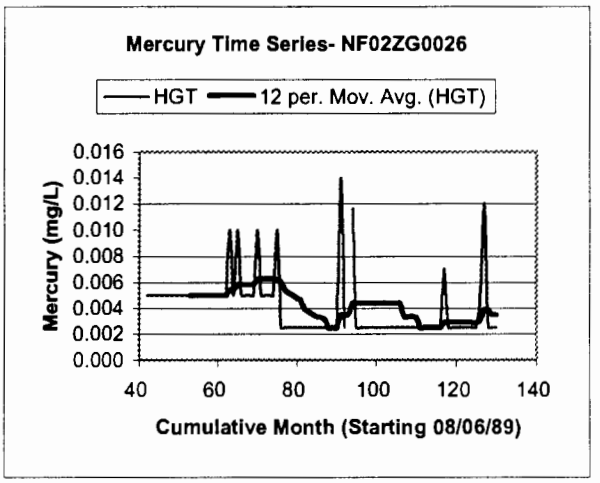

Arsenic Time Series- NF02ZG0026
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

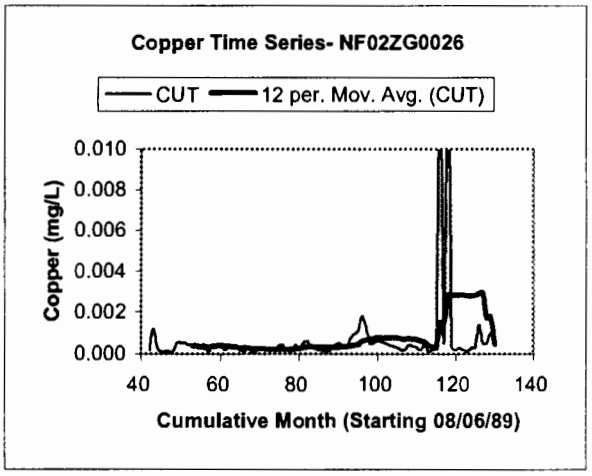

Cadmium Time Series- NF02ZG0026
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

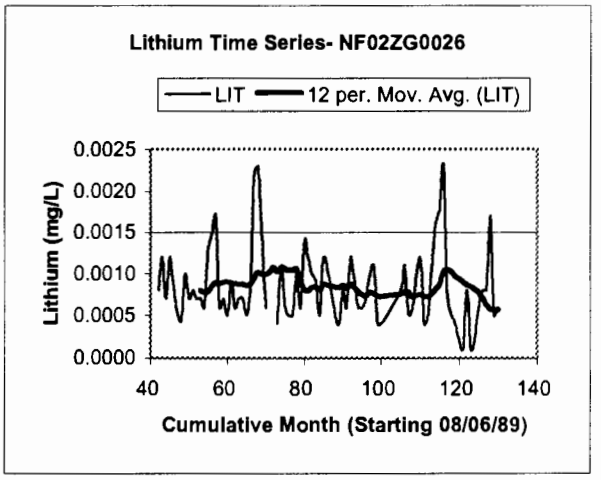

Barium Time Series- NF02ZG0026
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

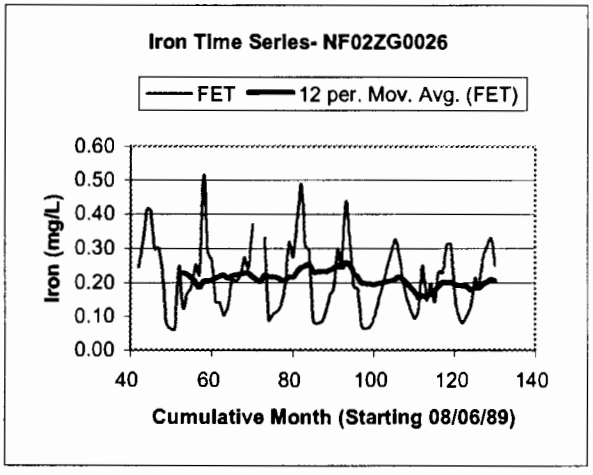

Cobalt Time Series- NF02ZG0026
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

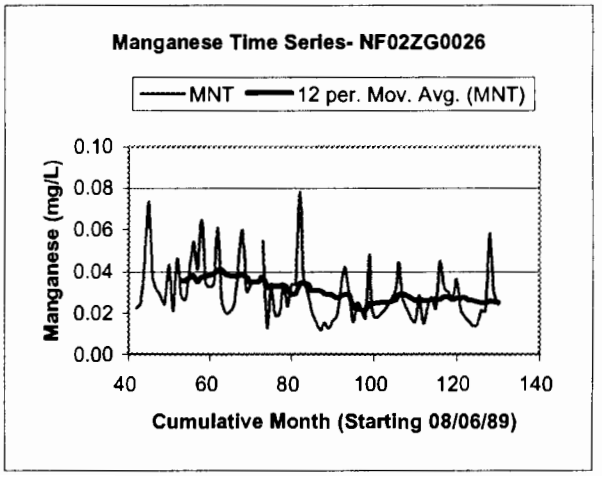

Chromium Time Series- NF02ZG0026
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

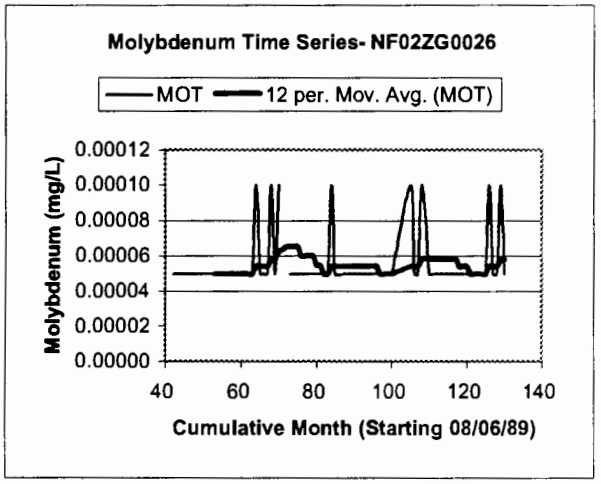

Mercury Time Series- NF02ZG0026
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

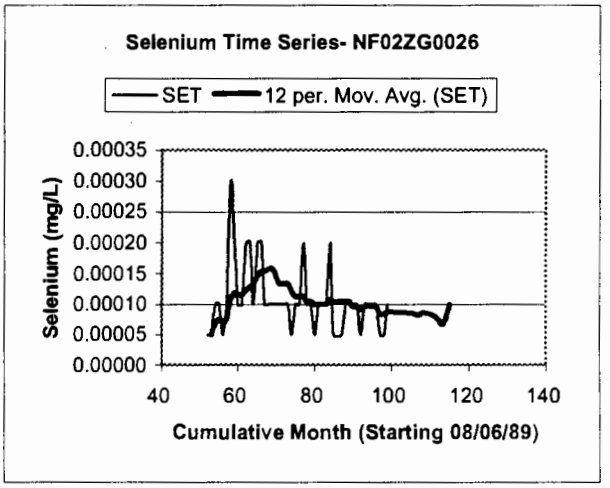

Copper Time Series- NF02ZG0026
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

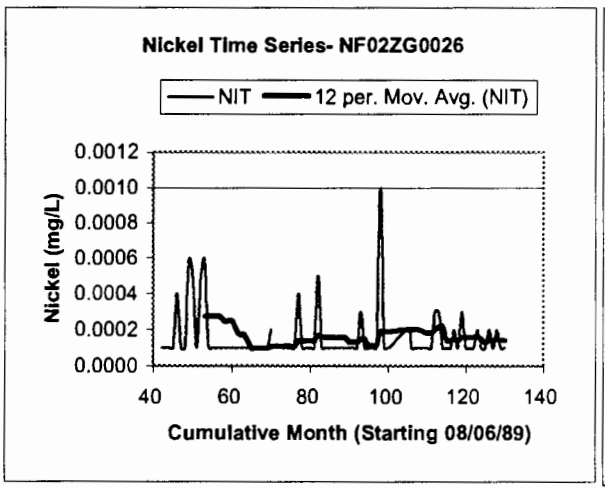

Lithium Time Series- NF02ZG0026
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

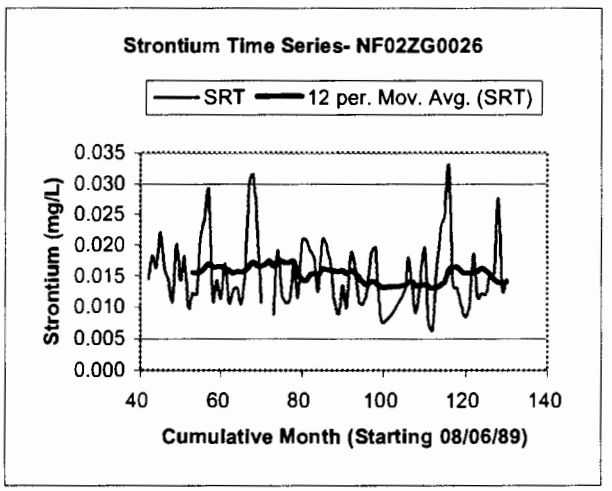

Iron Time Series- NF02ZG0026
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

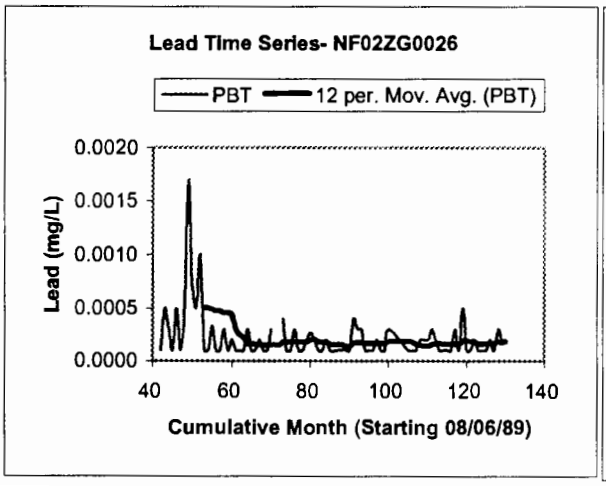

Manganese Time Series- NF02ZG0026
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

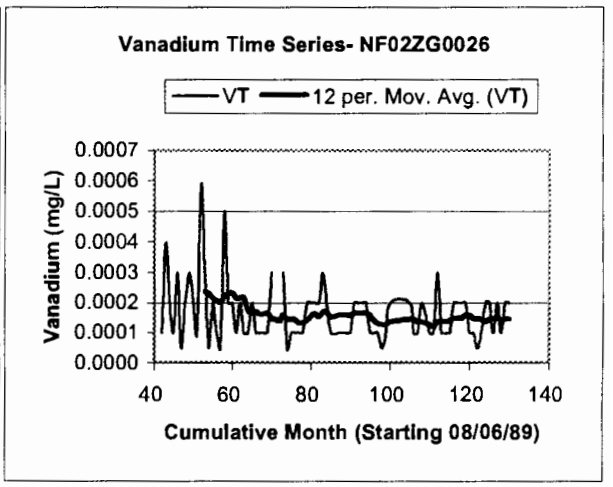

Molybdenum Time Series- NF02ZG0026
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

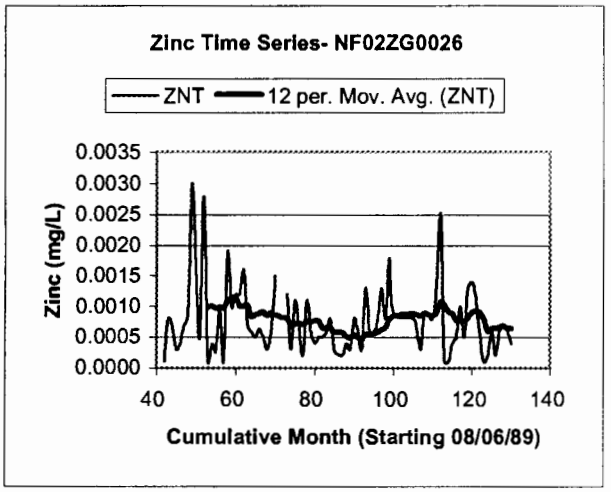

Selenium Time Series- NF02ZG0026
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)


Nickel Time Series- NF02ZG0026
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

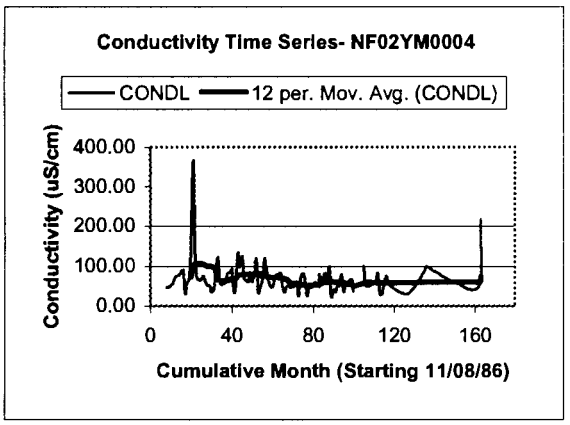

Strontium Time Series- NF02ZG0026
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

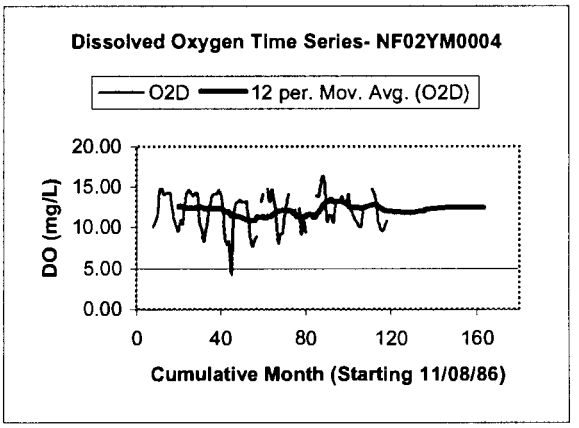

Lead Time Series- NF02ZG0026
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

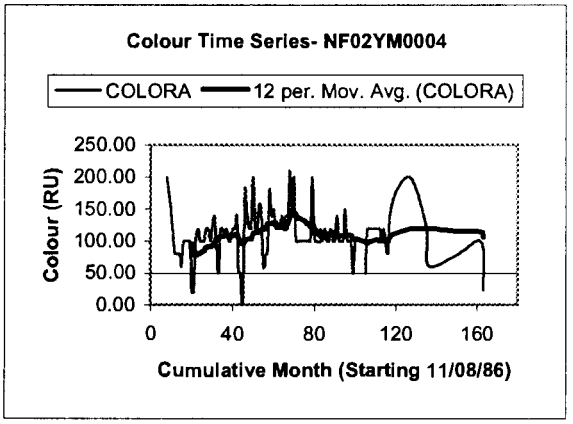

Vanadium Time Series- NF02ZG0026
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

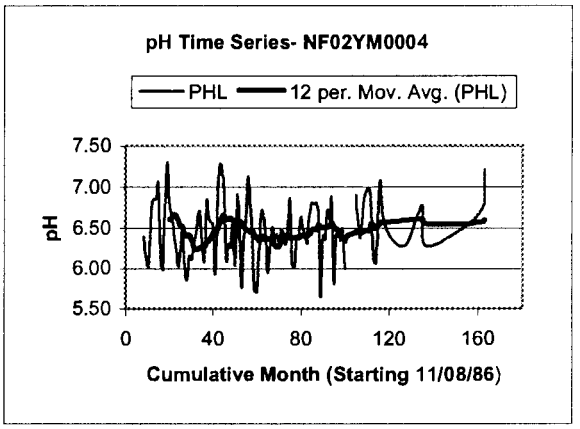

Zinc Time Series- NF02ZG0026
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 08/06/89)

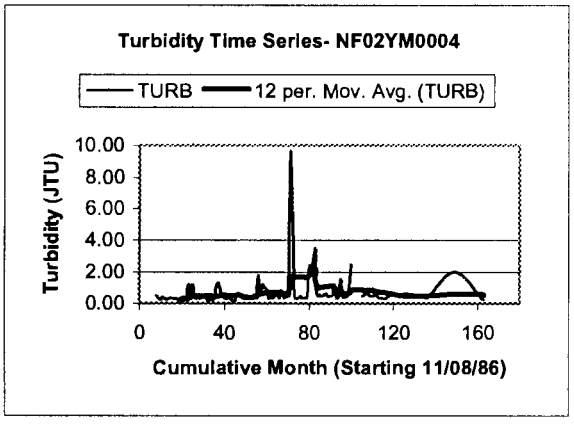
Time Series Plots of South West Brook- NF02YM0004

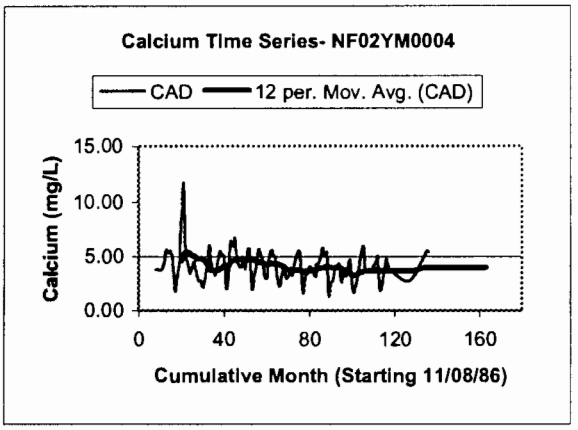


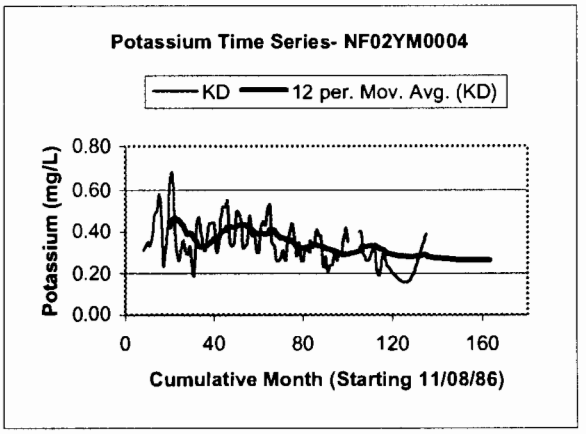


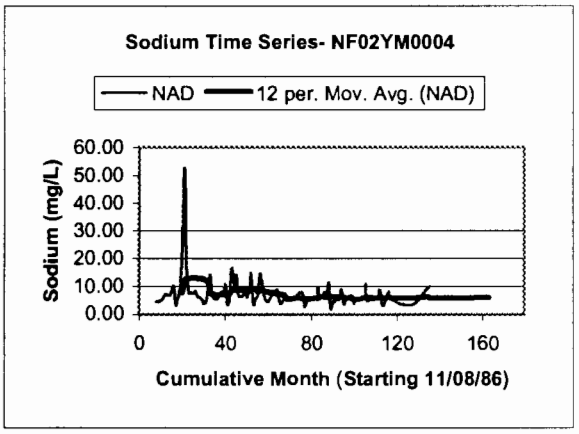


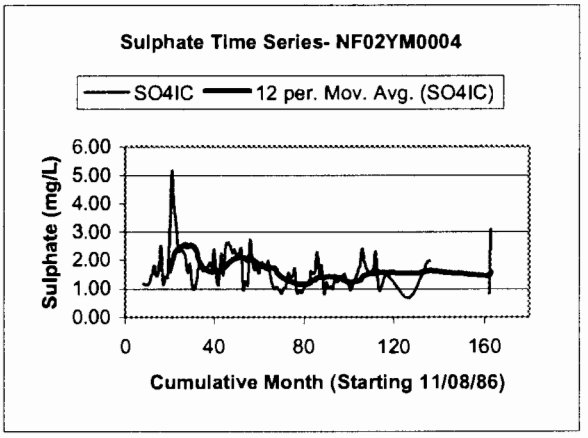


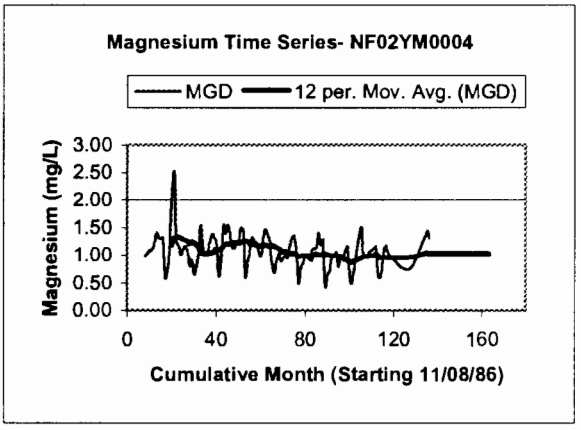


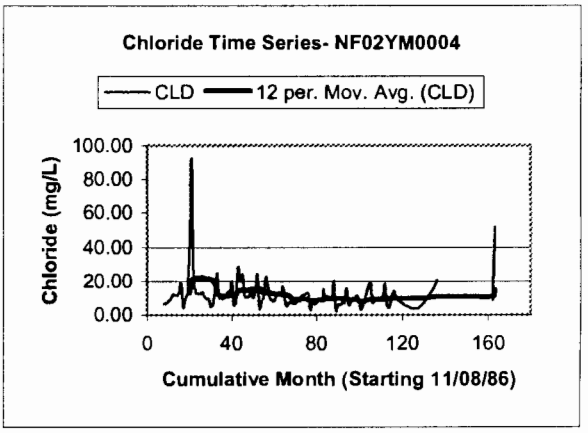

Calcium Time Series- NF02YM0004
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

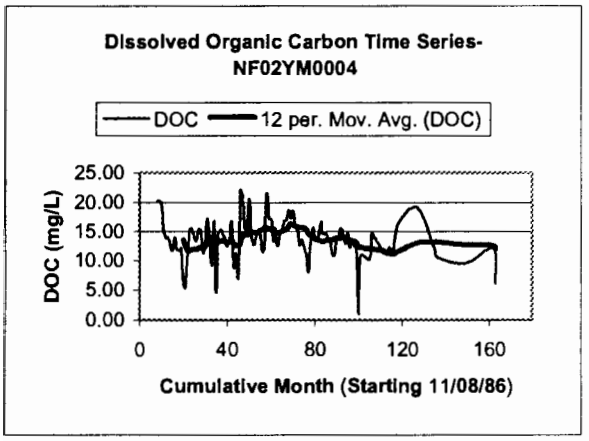

Potassium Time Series- NF02YM0004
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

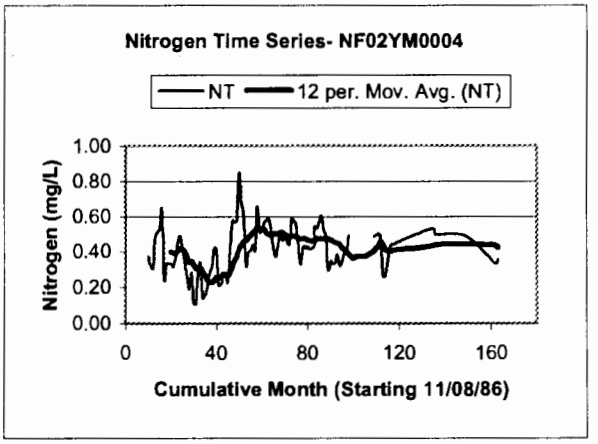

Sodium Time Series- NF02YM0004
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

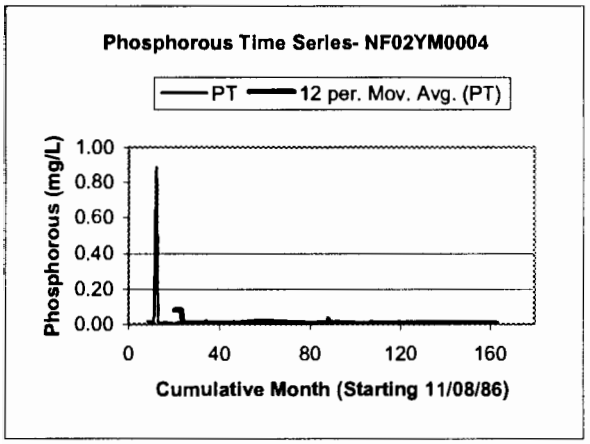

Sulphate Time Series- NF02YM0004
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

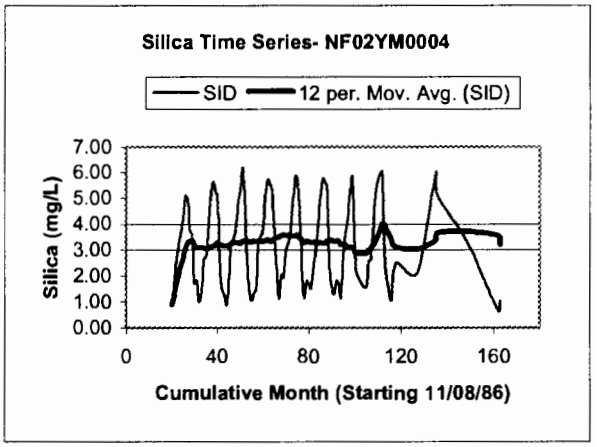

Magnesium Time Series- NF02YM0004
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

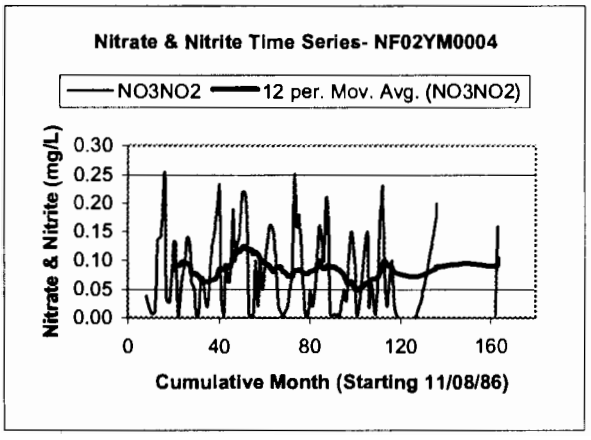

Chloride Time Series- NF02YM0004
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
100.00
80.00
60.00
40.00
20.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

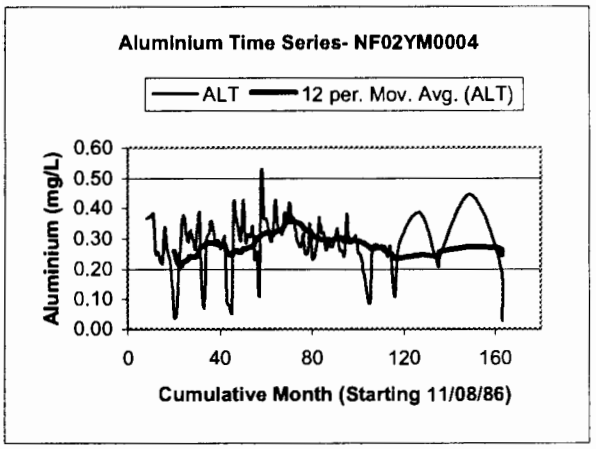

Dissolved Organic Carbon Time Series- NF02YM0004
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

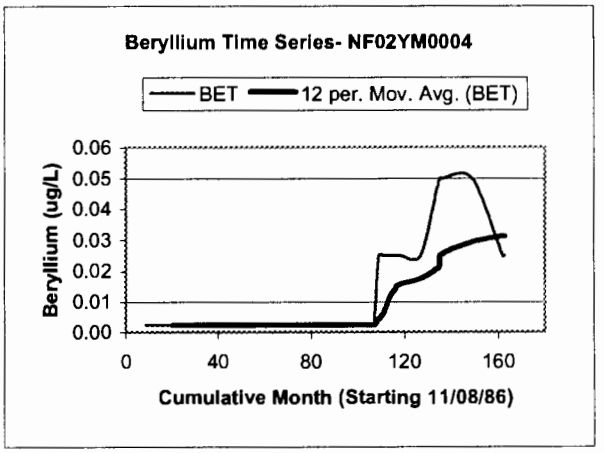

Nitrogen Time Series- NF02YM0004
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

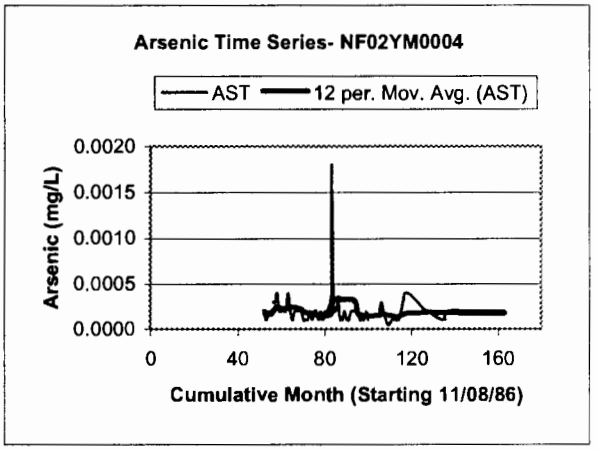

Phosphorous Time Series- NF02YM0004
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

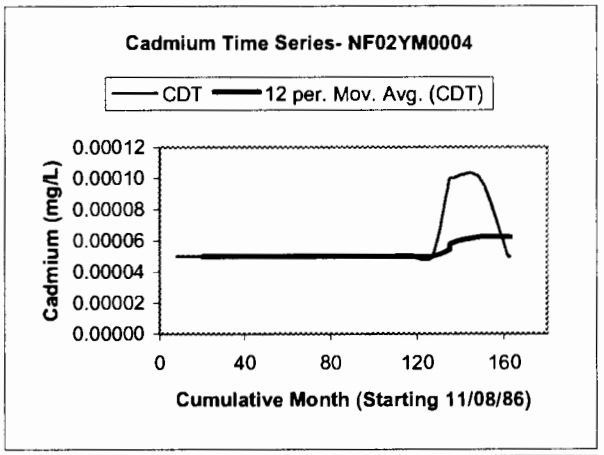

Silica Time Series- NF02YM0004
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

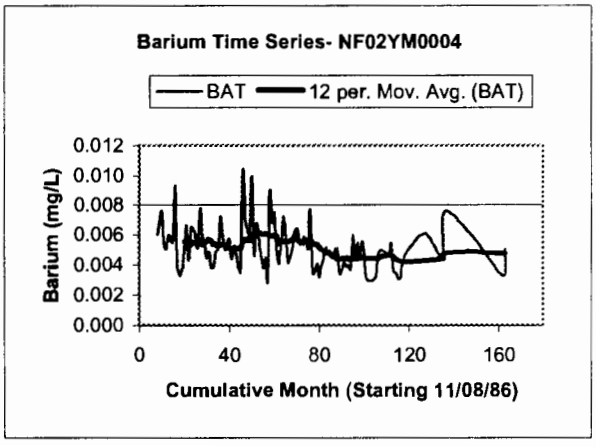

Nitrate & Nitrite Time Series- NF02YM0004
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

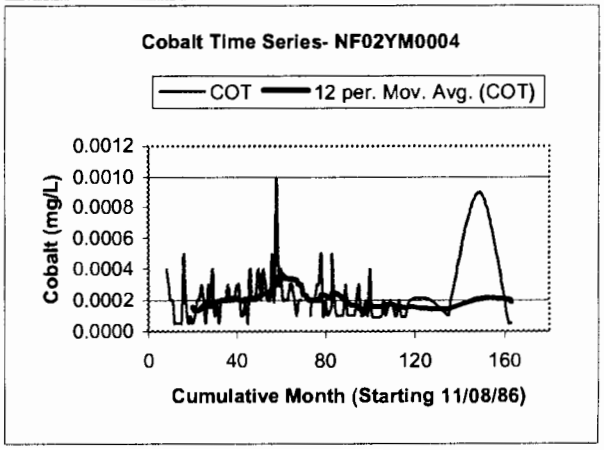

Aluminium Time Series- NF02YM0004
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

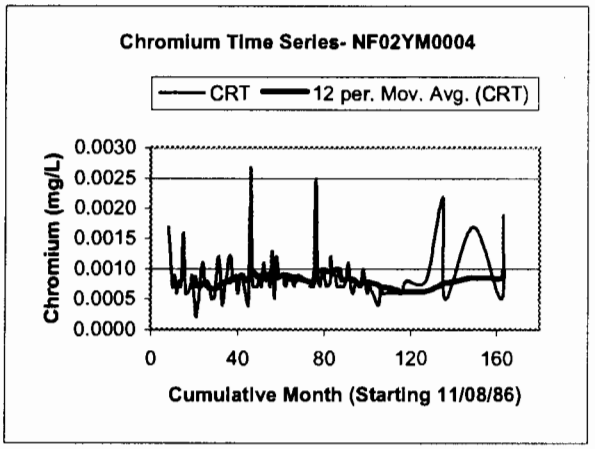

Beryllium Time Series- NF02YM0004
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

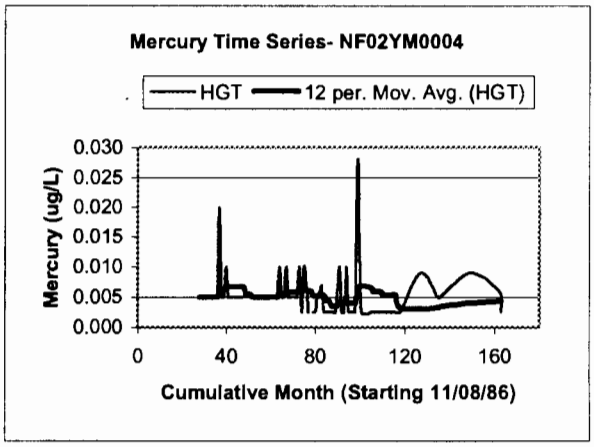

Arsenic Time Series- NF02YM0004
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

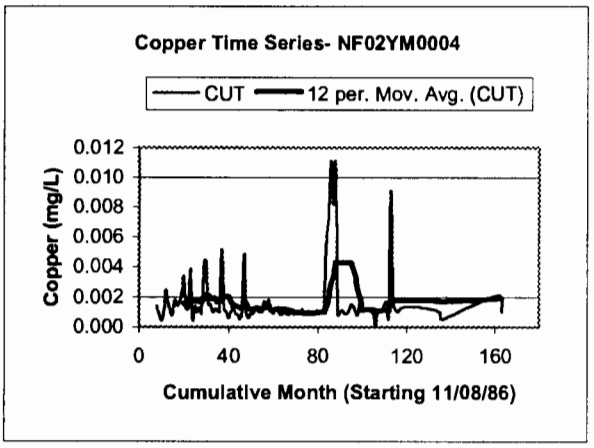

Cadmium Time Series- NF02YM0004
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

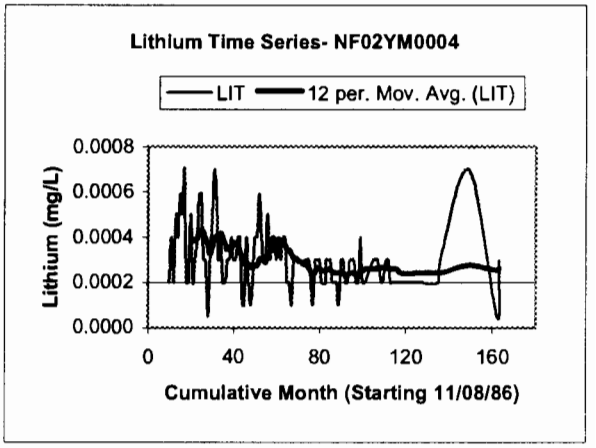

Barium Time Series- NF02YM0004
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

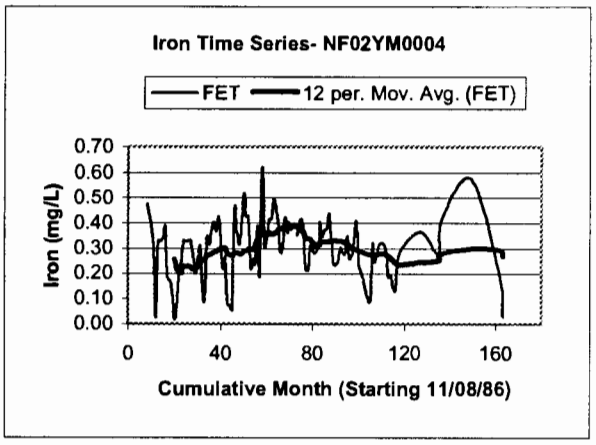

Cobalt Time Series- NF02YM0004
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

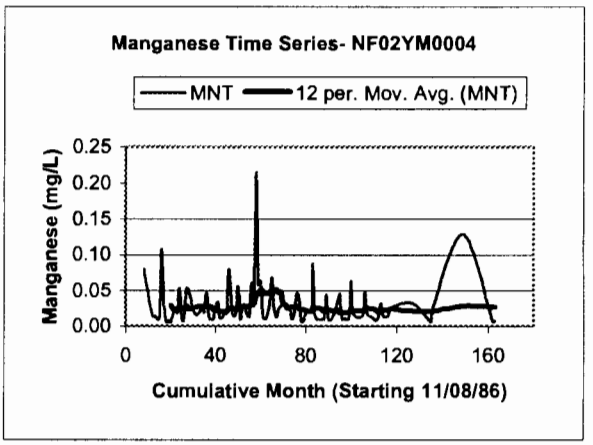

Chromium Time Series- NF02YM0004
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

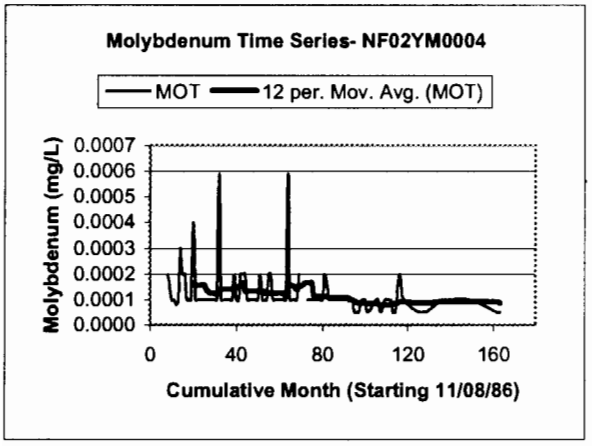

Mercury Time Series- NF02YM0004
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

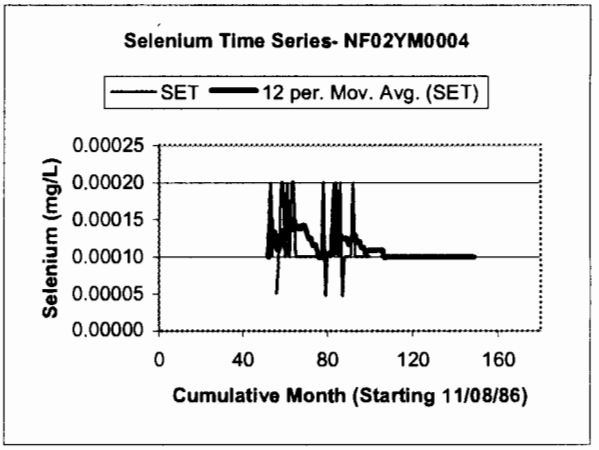

Copper Time Series- NF02YM0004
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

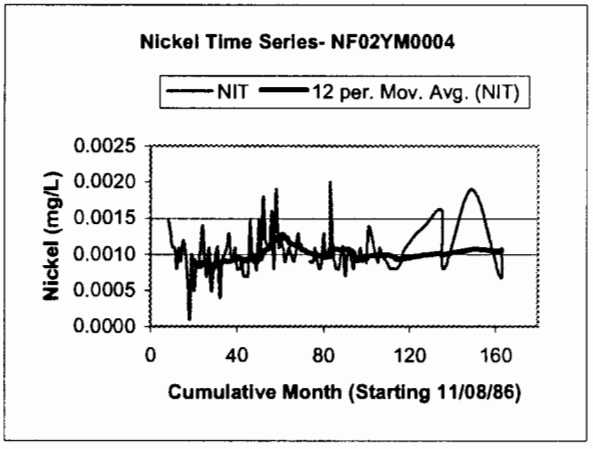

Lithium Time Series- NF02YM0004
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

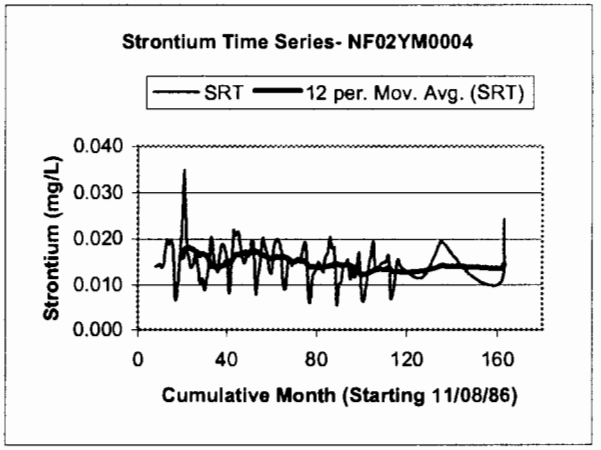

Iron Time Series- NF02YM0004
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

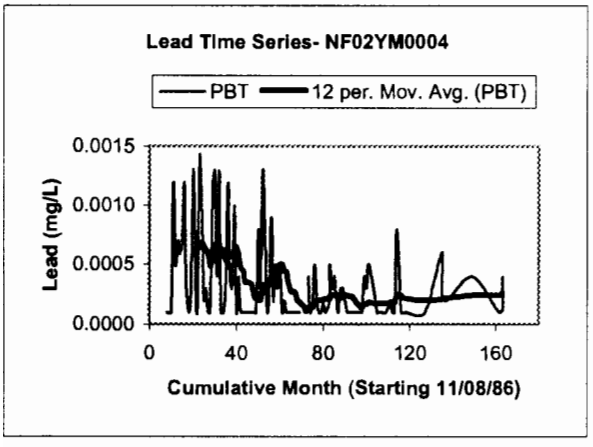

Manganese Time Series- NF02YM0004
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

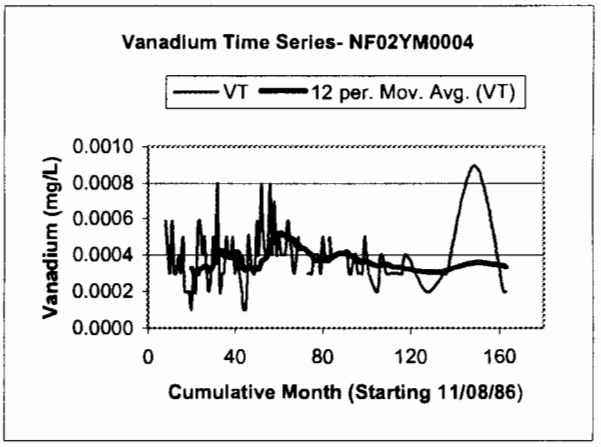

Molybdenum Time Series- NF02YM0004
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

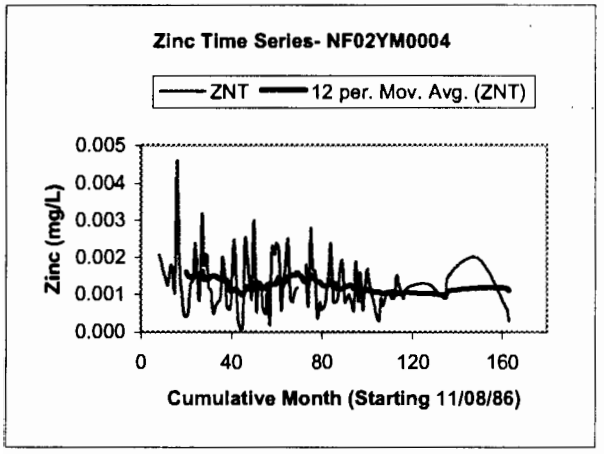

Selenium Time Series- NF02YM0004
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)


Nickel Time Series- NF02YM0004
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

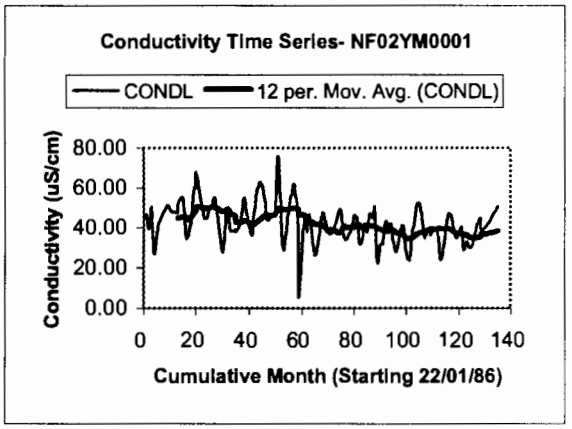

Strontium Time Series- NF02YM0004
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.040
0.030
0.020
0.010
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

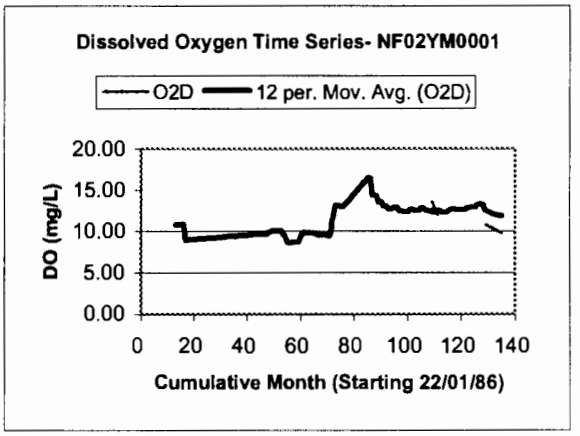

Lead Time Series- NF02YM0004
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

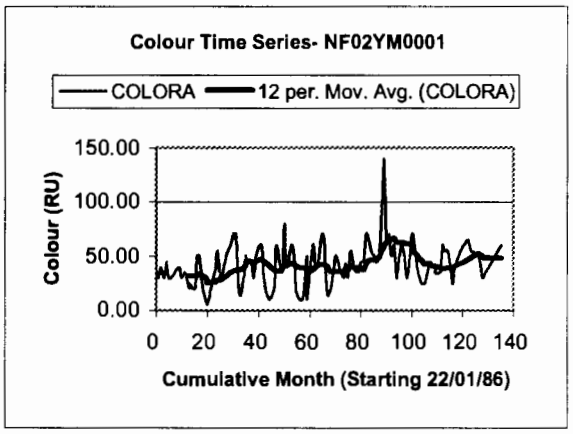

Vanadium Time Series- NF02YM0004
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

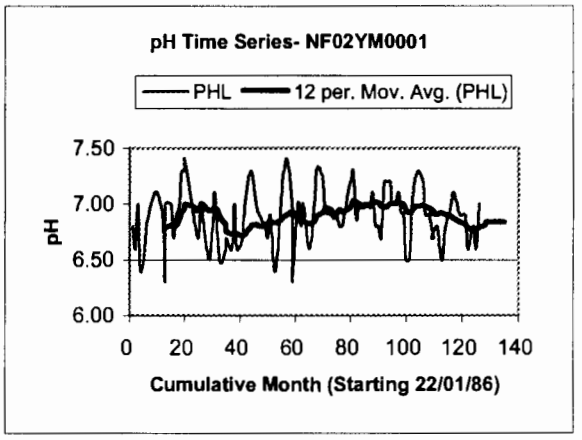

Zinc Time Series- NF02YM0004
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

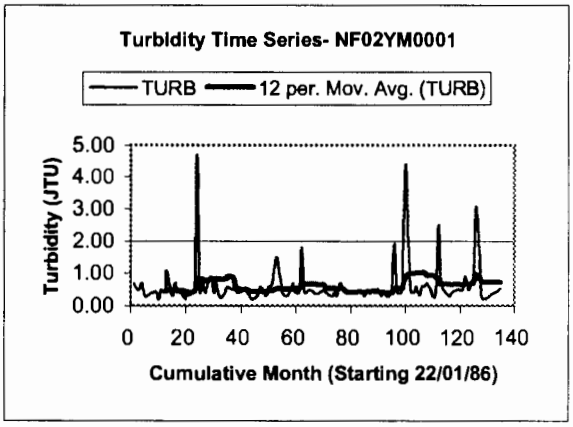
Time Series Plots of Indian Brook- NF02YM0001

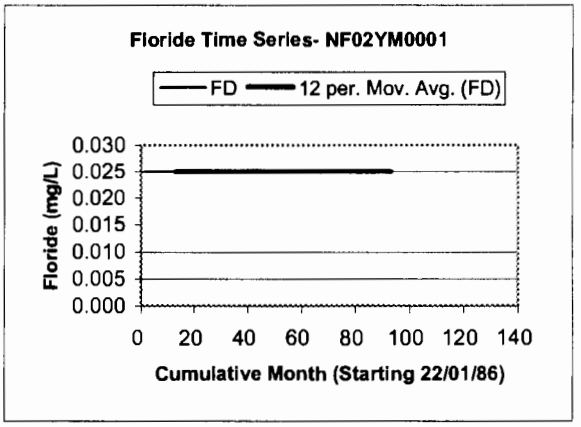


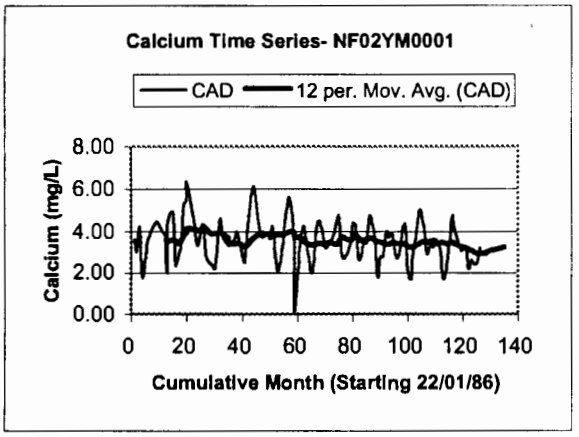


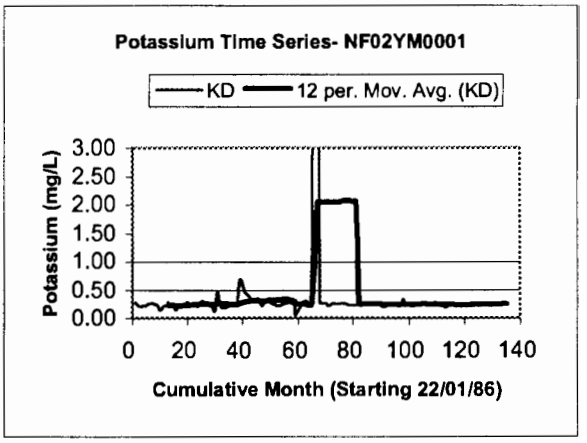


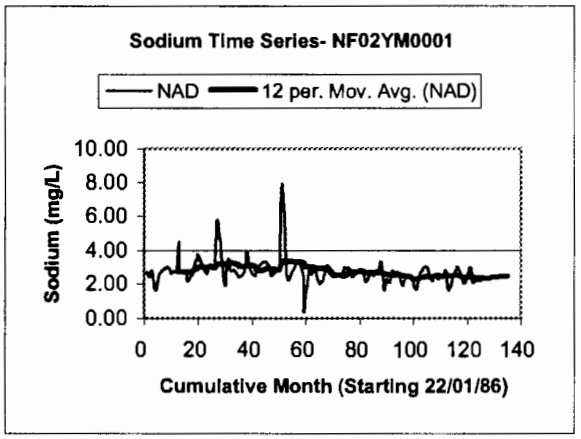


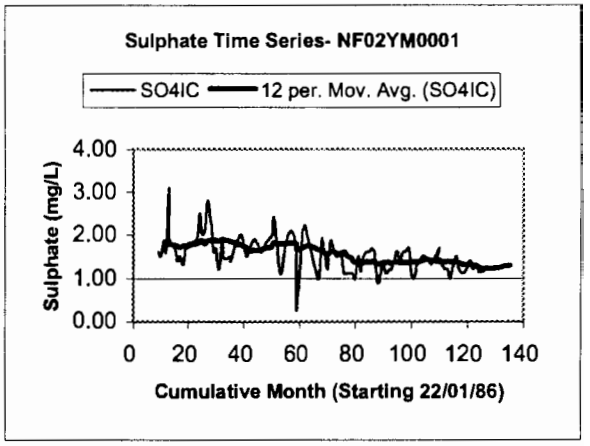


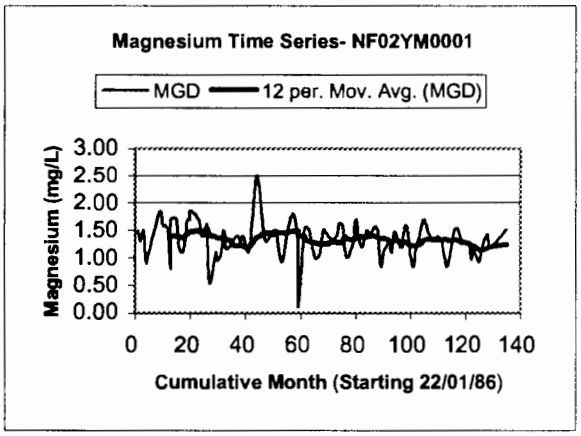


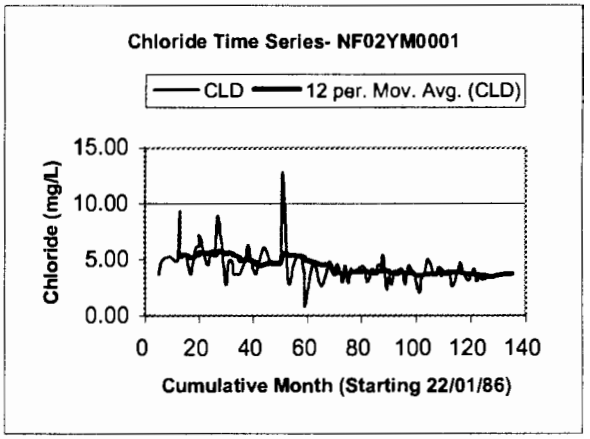

Calcium Time Series- NF02YM0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

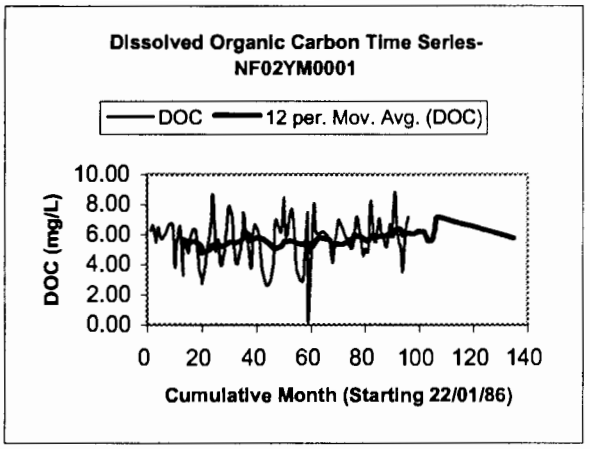

Potassium Time Series- NF02YM0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

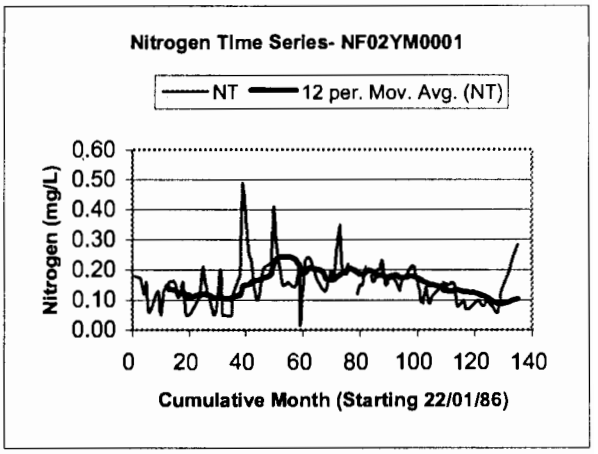

Sodium Time Series- NF02YM0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

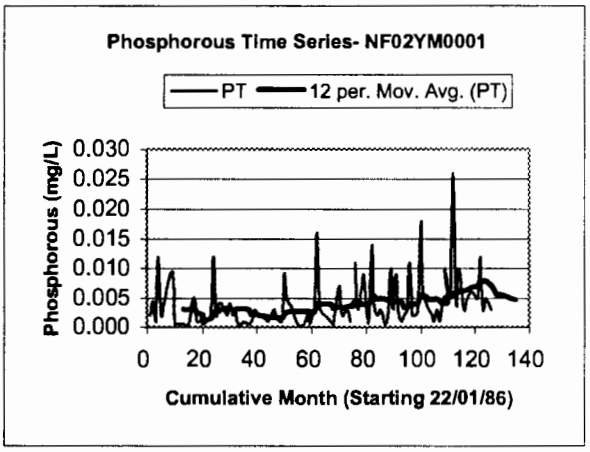

Sulphate Time Series- NF02YM0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

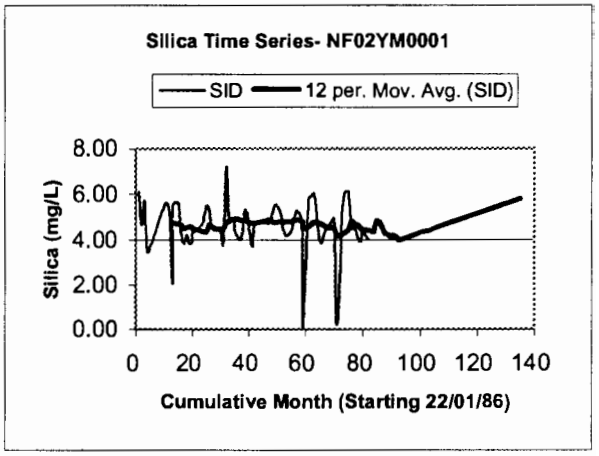

Magnesium Time Series- NF02YM0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

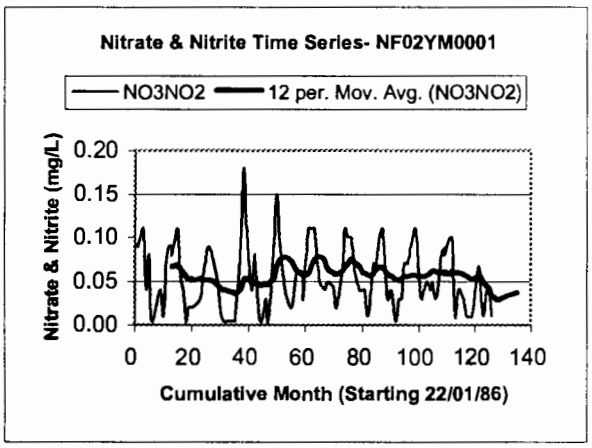

Chloride Time Series- NF02YM0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

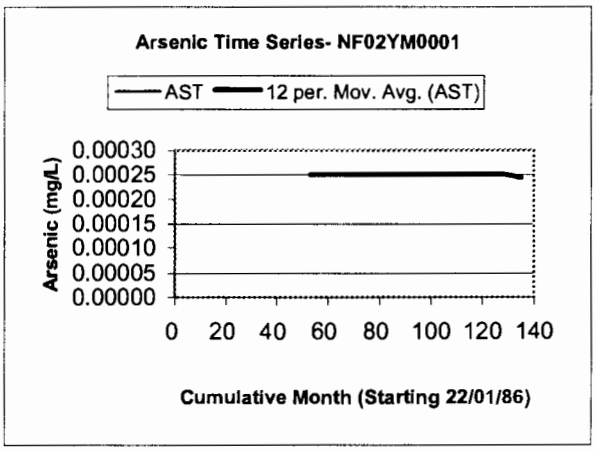

Dissolved Organic Carbon Time Series- NF02YM0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)


Nitrogen Time Series- NF02YM0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

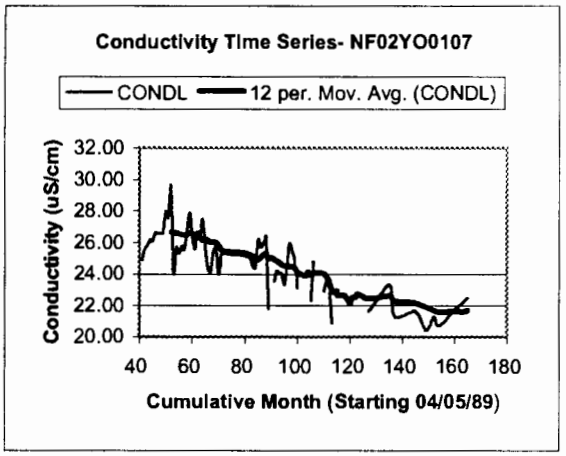

Phosphorous Time Series- NF02YM0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

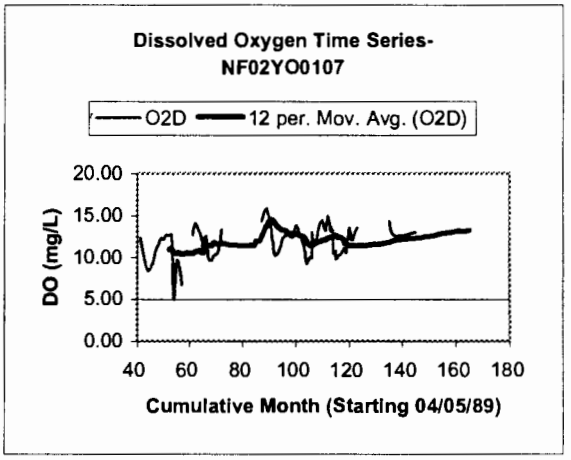

Silica Time Series- NF02YM0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

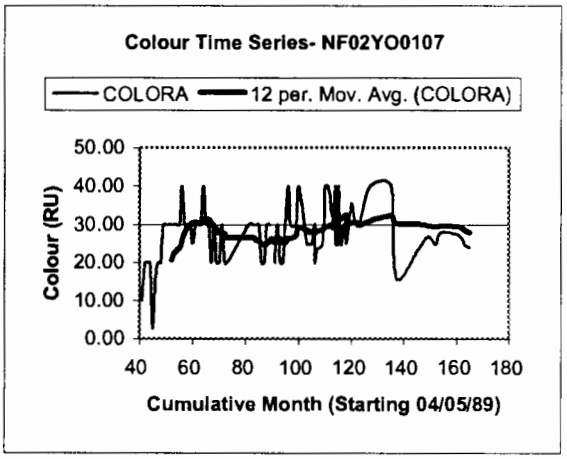

Nitrate & Nitrite Time Series- NF02YM0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

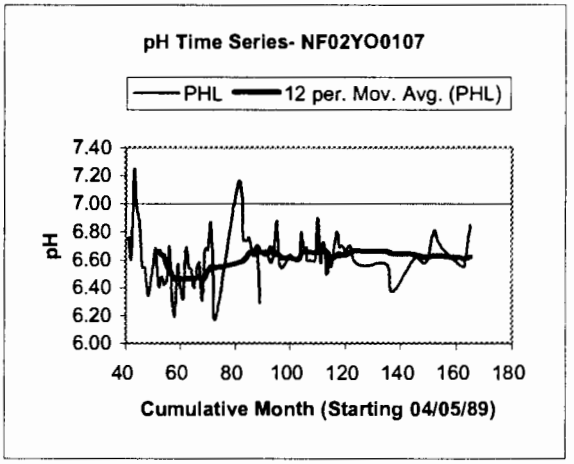

Arsenic Time Series- NF02YM0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 22/01/86)

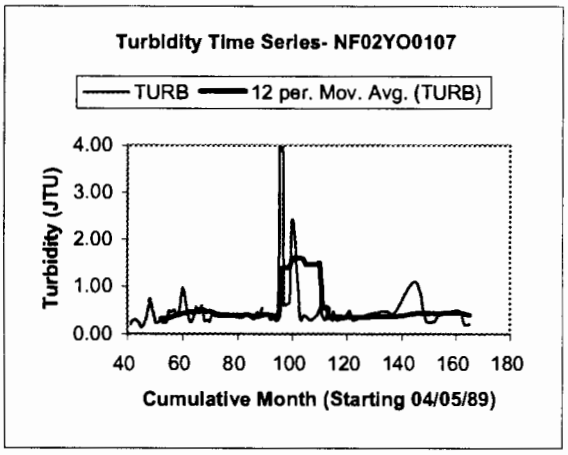
Time Series Plots of Exploits River (b/l Millertown Dam)- NF02YO0107

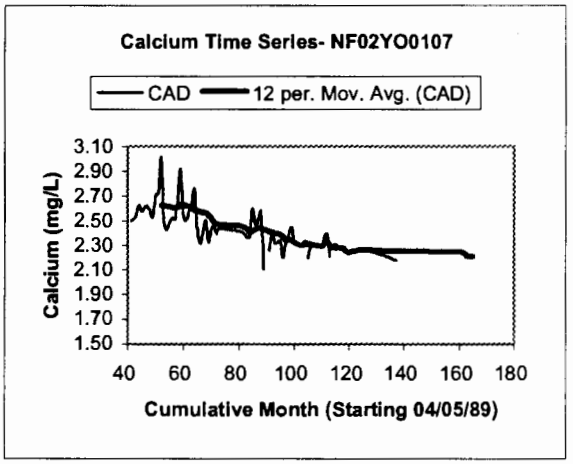


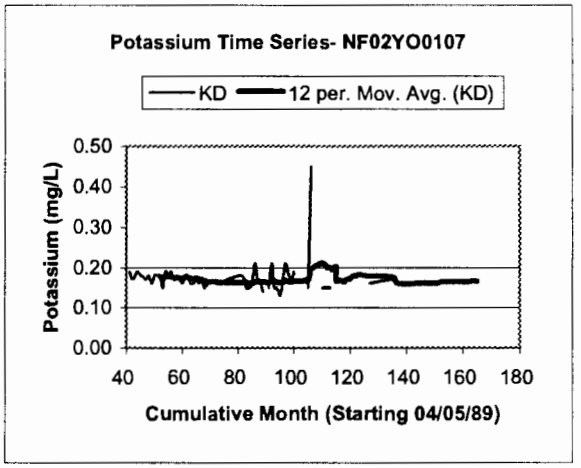


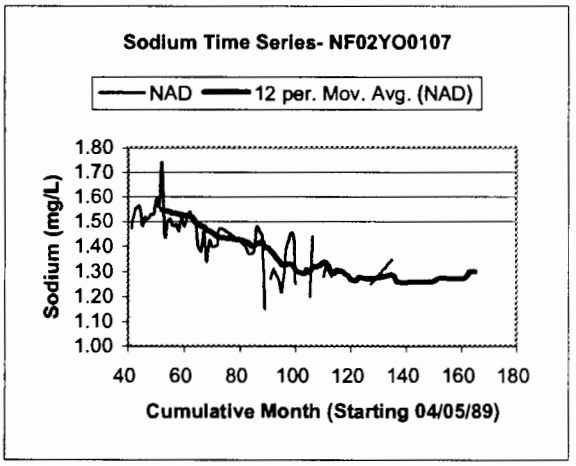


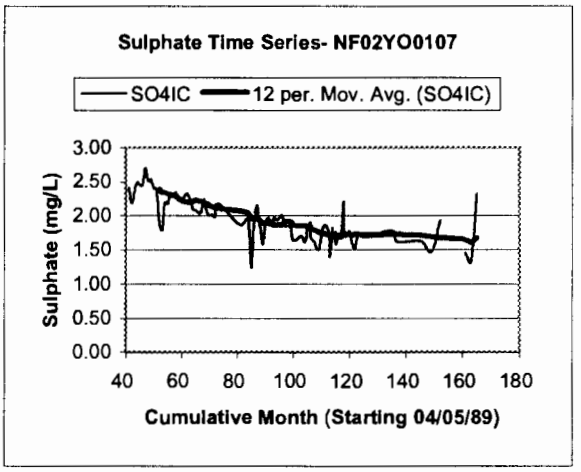


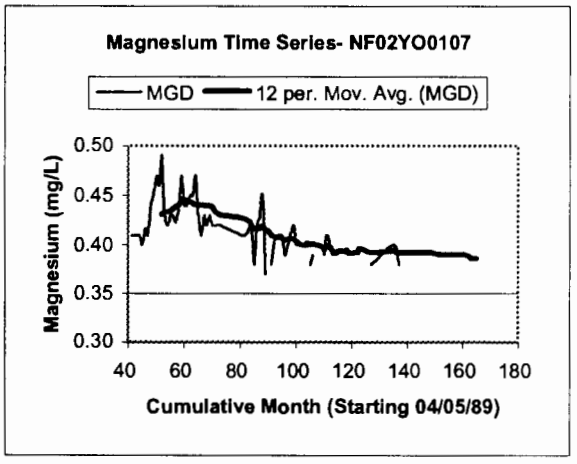


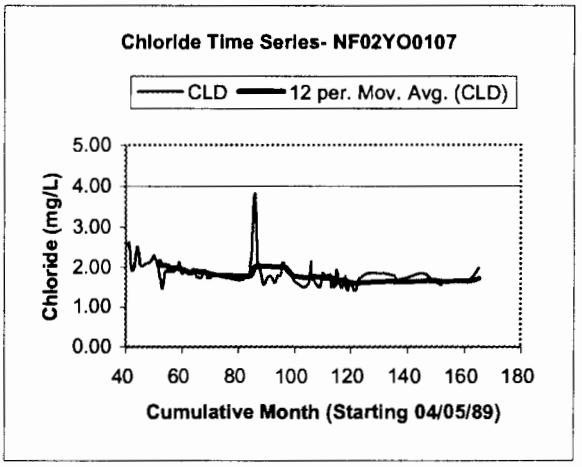

Calcium Time Series- NF02YO0107
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.10
2.90
2.70
2.50
2.30
2.10
1.90
1.70
1.50
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

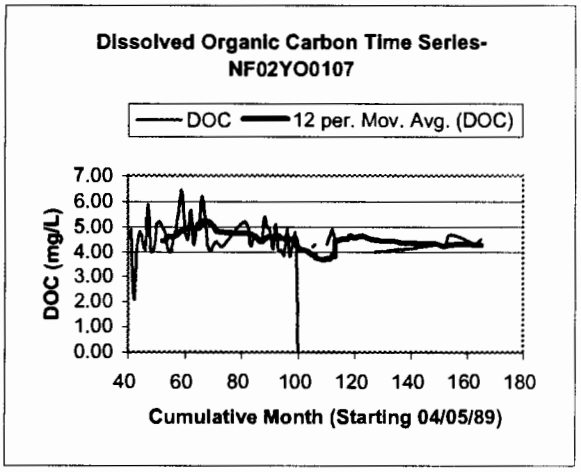

Potassium Time Series- NF02YO0107
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

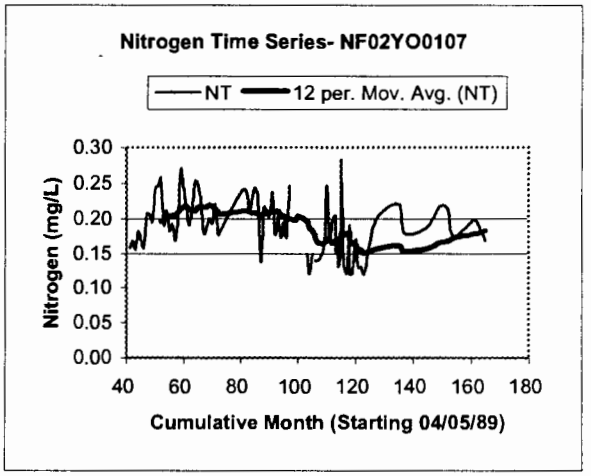

Sodium Time Series- NF02YO0107
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
1.80
1.70
1.60
1.50
1.40
1.30
1.20
1.10
1.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

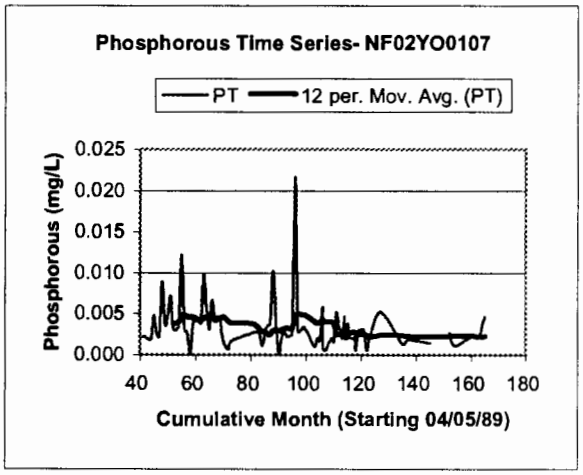

Sulphate Time Series- NF02YO0107
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

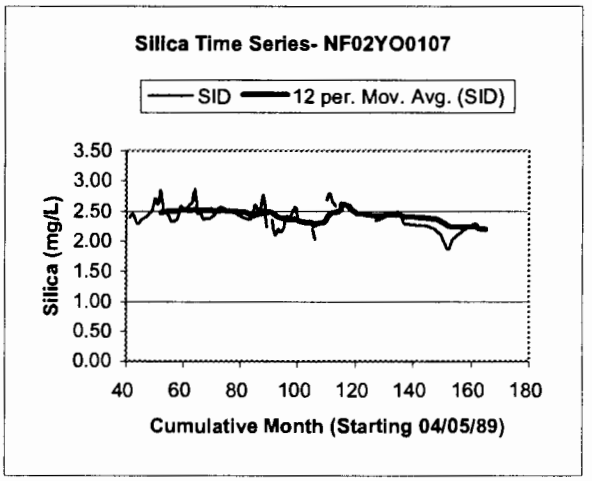

Magnesium Time Series- NF02YO0107
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.50
0.45
0.40
0.35
0.30
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

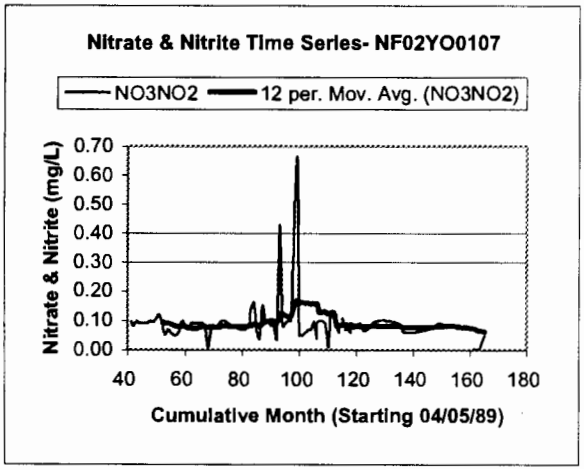

Chloride Time Series- NF02YO0107
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

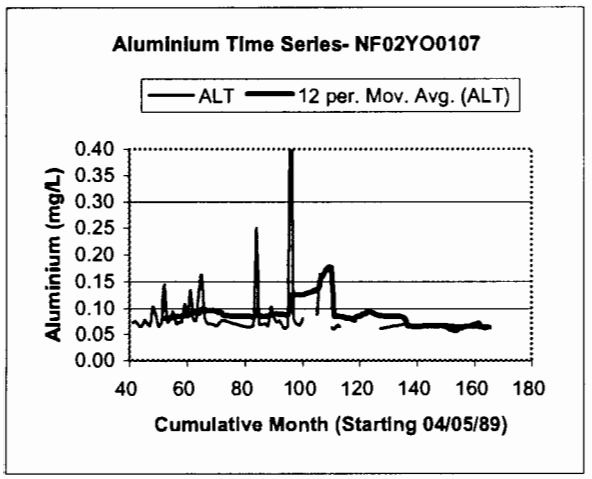

Dissolved Organic Carbon Time Series- NF02YO0107
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

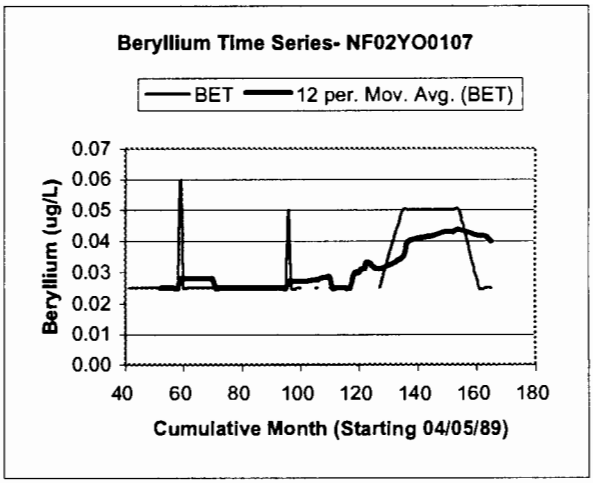

Nitrogen Time Series- NF02YO0107
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

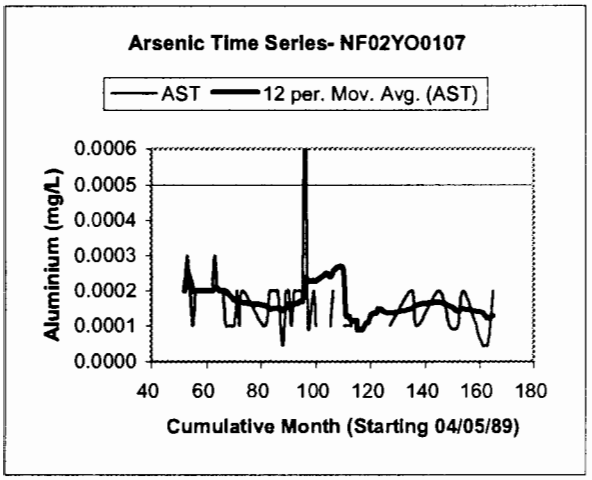

Phosphorous Time Series- NF02YO0107
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

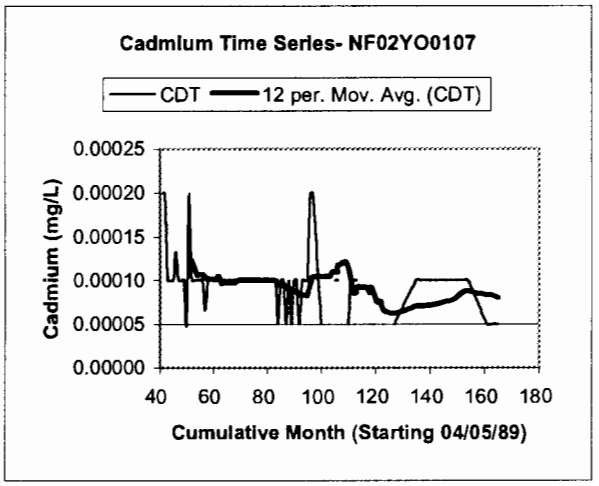

Silica Time Series- NF02YO0107
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

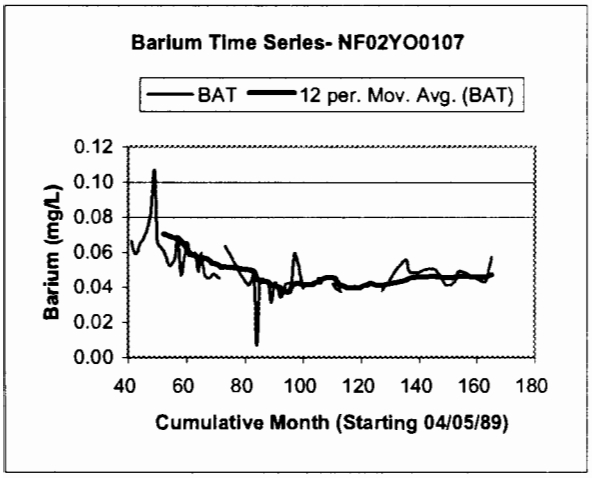

Nitrate & Nitrite Time Series- NF02YO0107
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

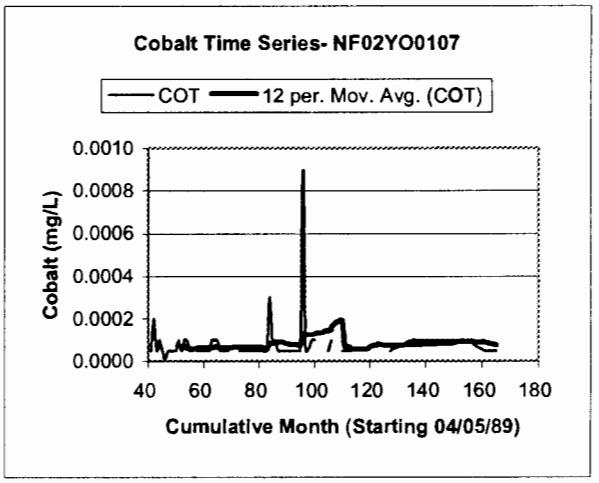

Aluminium Time Series- NF02YO0107
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

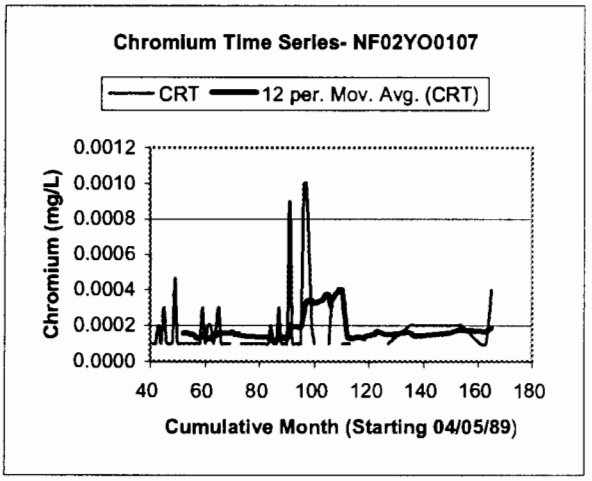

Beryllium Time Series- NF02YO0107
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

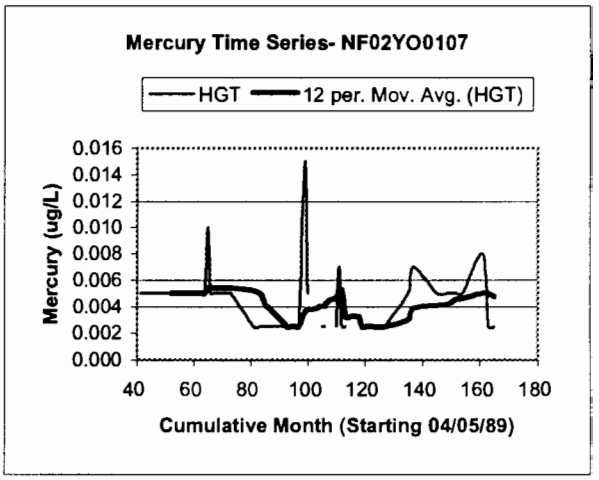

Arsenic Time Series- NF02YO0107
AST
12 per. Mov. Avg. (AST)
Aluminium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

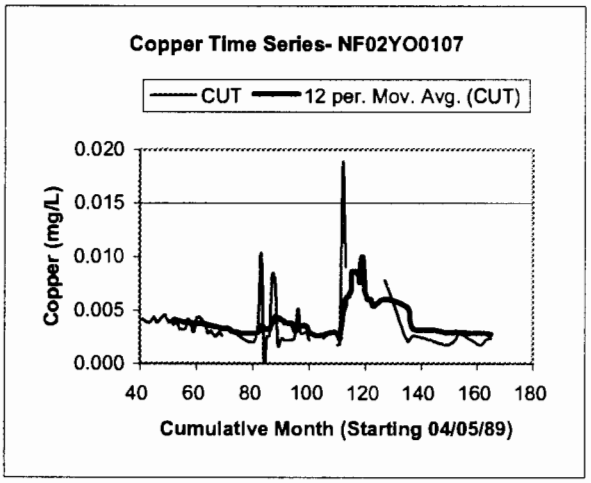

Cadmium Time Series- NF02YO0107
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

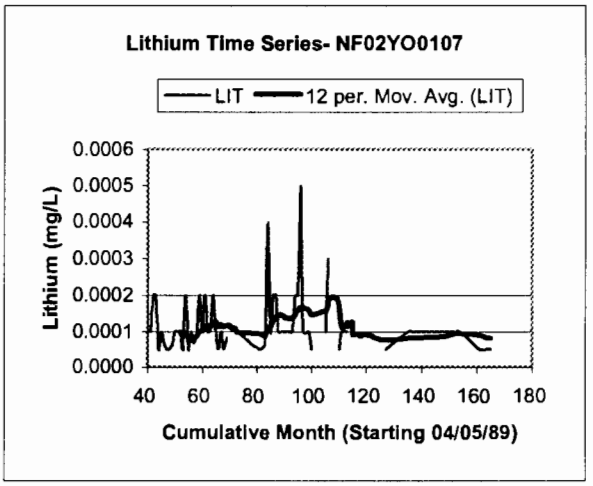

Barium Time Series- NF02YO0107
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

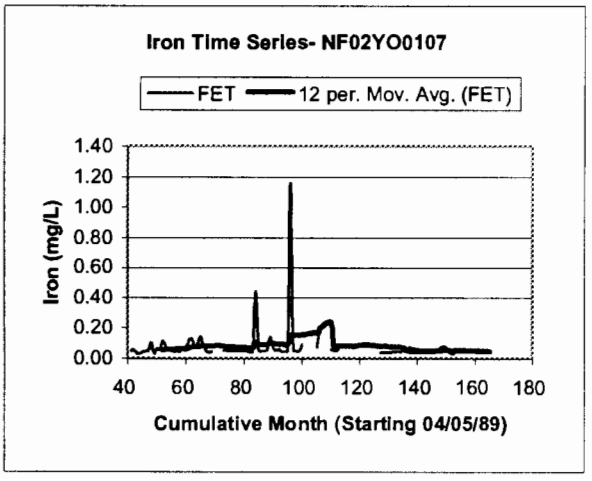

Cobalt Time Series- NF02YO0107
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

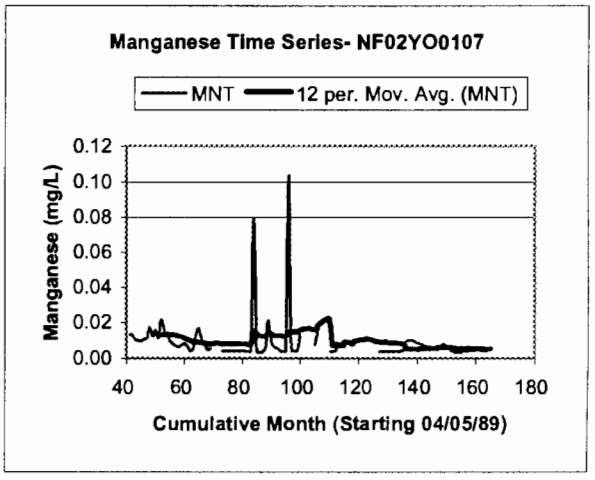

Chromium Time Series- NF02YO0107
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

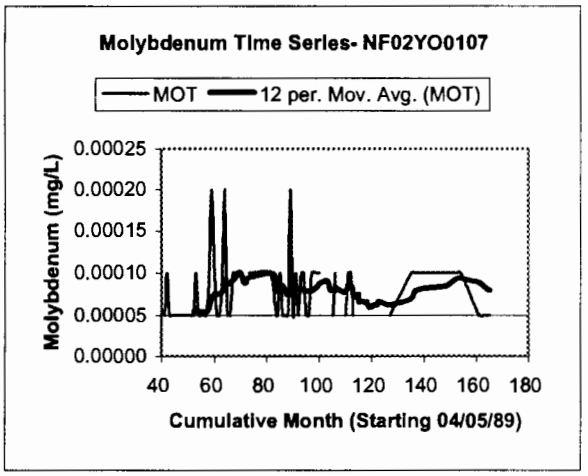

Mercury Time Series- NF02YO0107
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

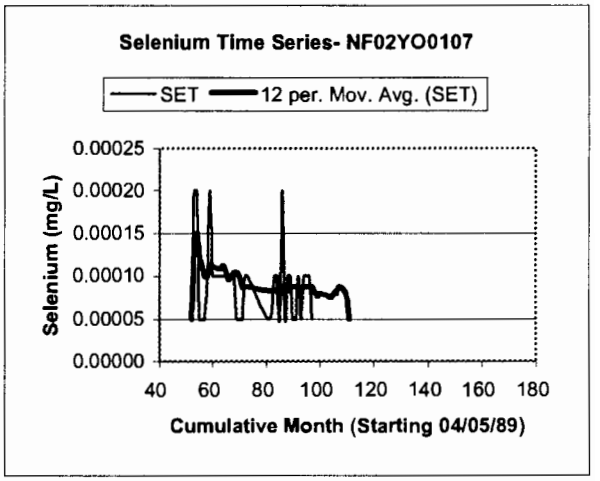

Copper Time Series- NF02YO0107
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.020
0.015
0.010
0.005
0.000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

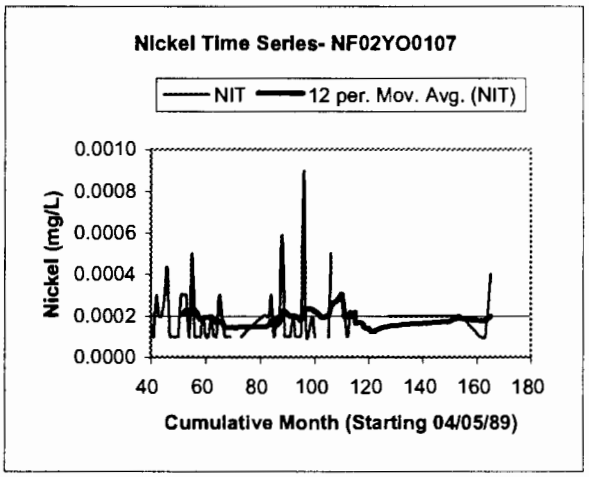

Lithium Time Series- NF02YO0107
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

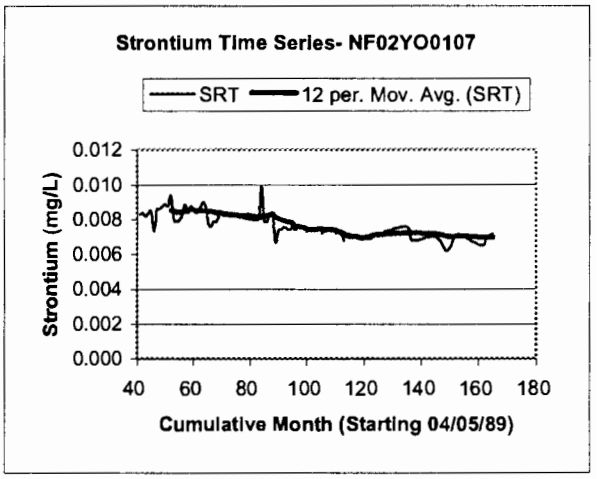

Iron Time Series- NF02YO0107
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

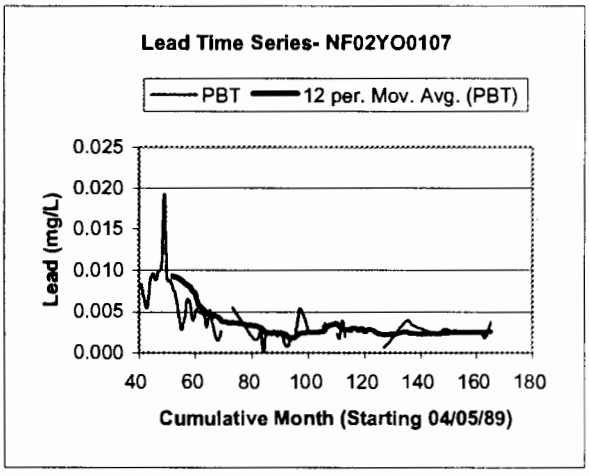

Manganese Time Series- NF02YO0107
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

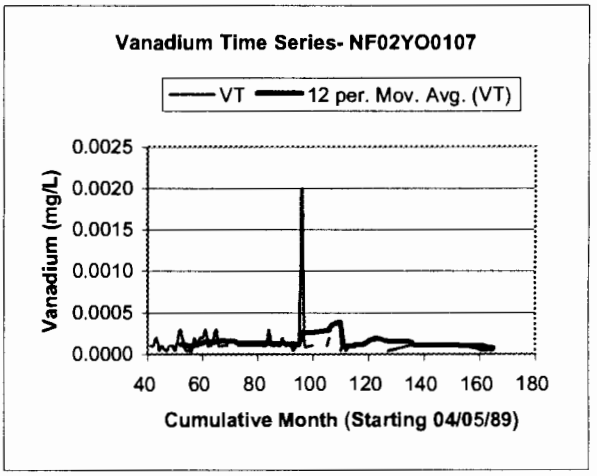

Molybdenum Time Series- NF02YO0107
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

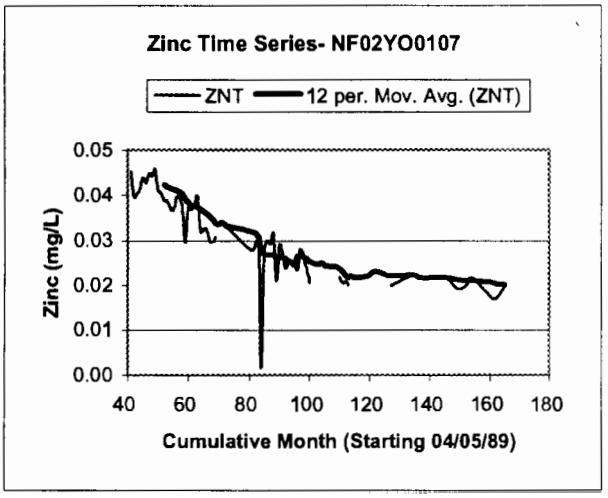

Selenium Time Series- NF02YO0107
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)


Nickel Time Series- NF02YO0107
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

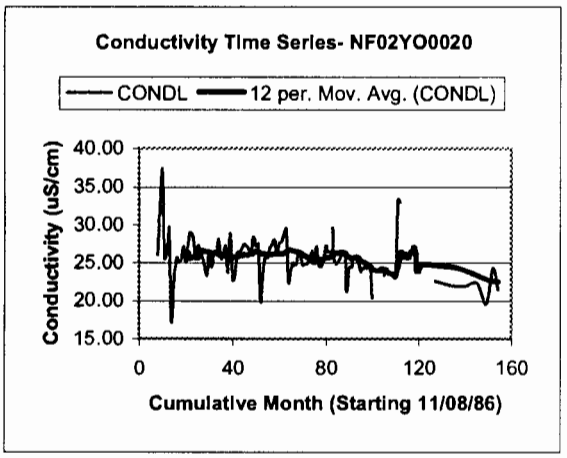

Strontium Time Series- NF02YO0107
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

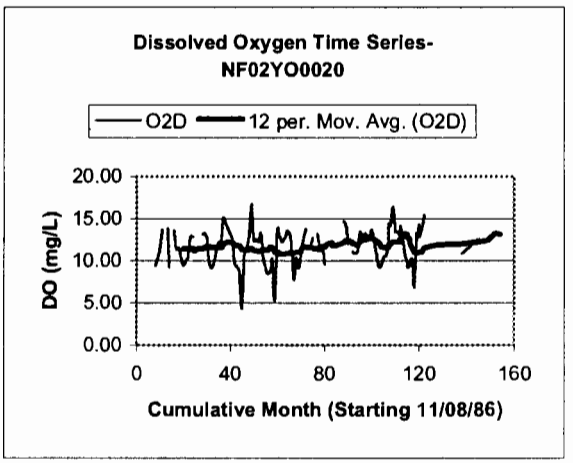

Lead Time Series- NF02YO0107
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

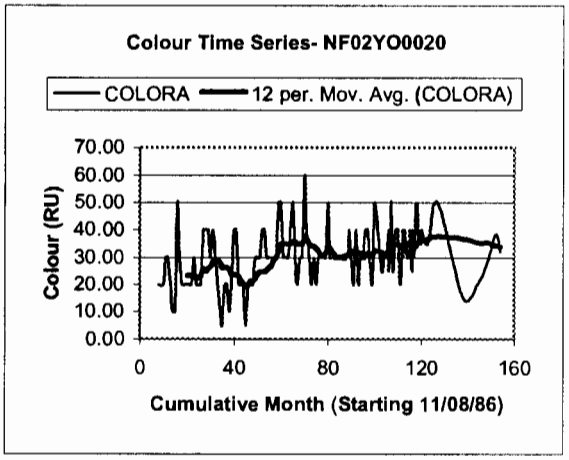

Vanadium Time Series- NF02YO0107
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40 60 80 100 120 140 160 180
Cumulative Month (Starting 04/05/89)

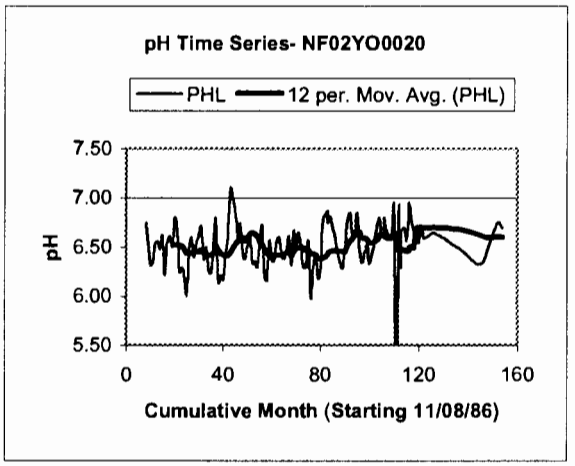

Zinc Time Series- NF02YO0107
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
40
60
80
100
120
140
160
180
Cumulative Month (Starting 04/05/89)

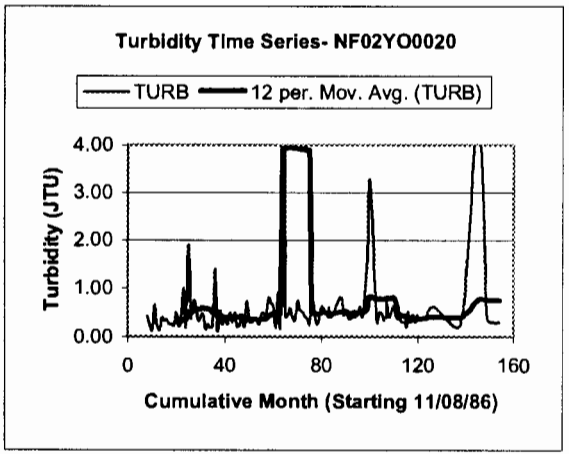
Time Series Plots of Exploits River (@ Aspen Brook Park)- NF02YO0020

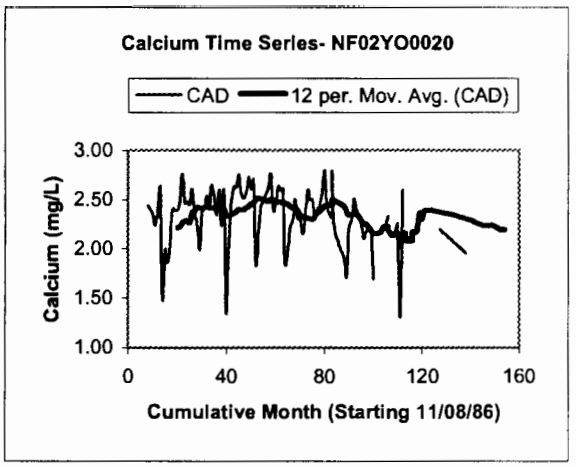


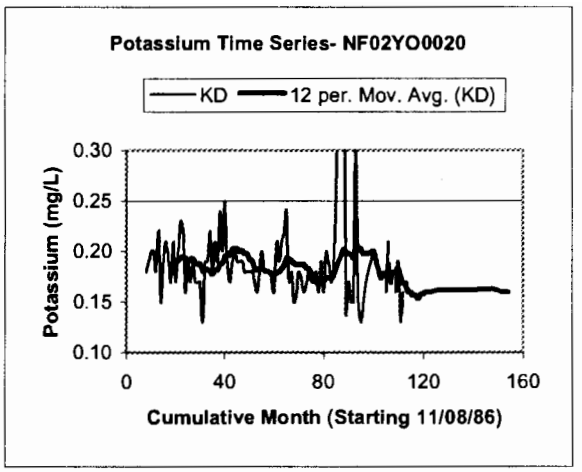


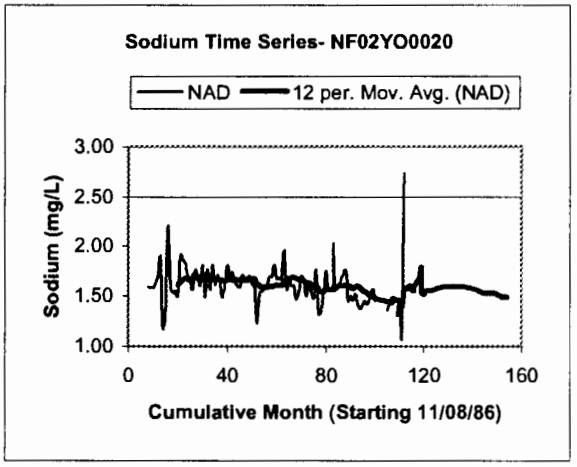


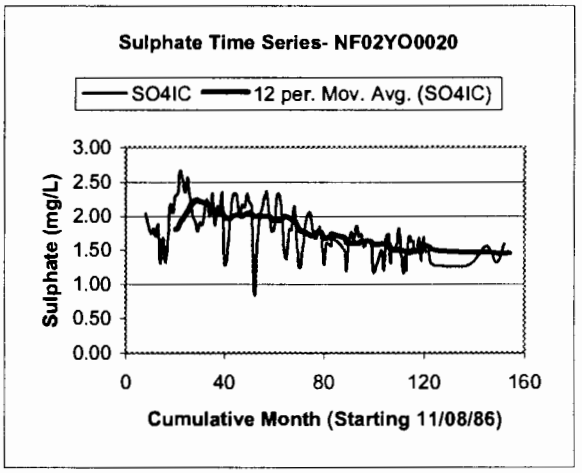


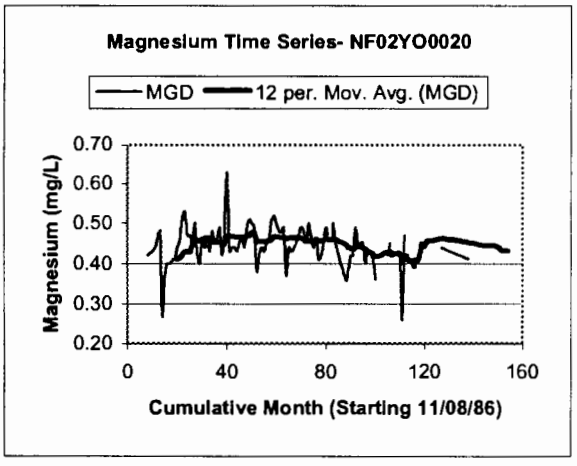


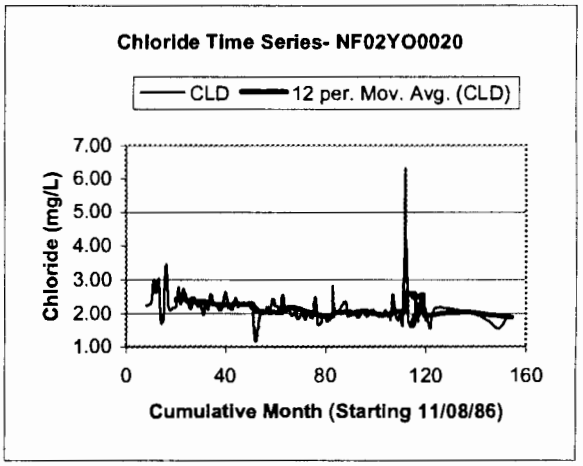

Calcium Time Series- NF02YO0020
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

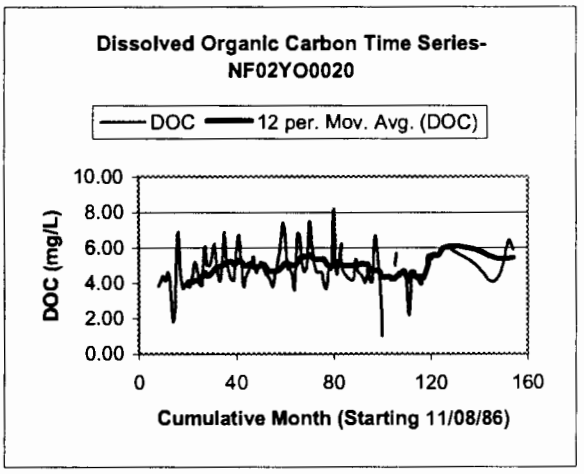

Potassium Time Series- NF02YO0020
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.30
0.25
0.20
0.15
0.10
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

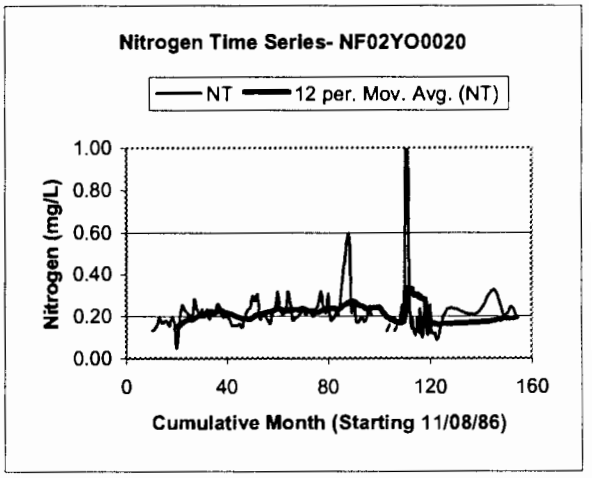

Sodium Time Series- NF02YO0020
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.00
2.50
2.00
1.50
1.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

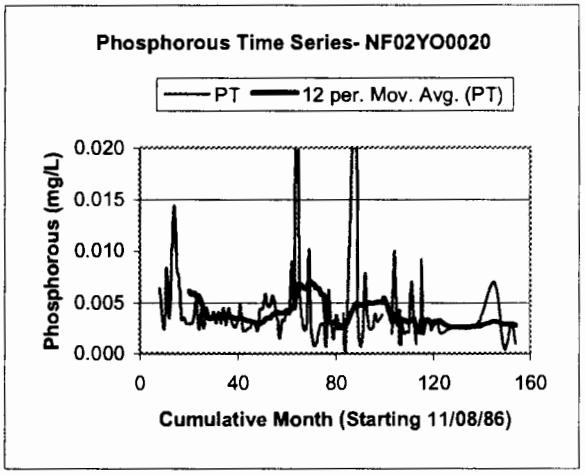

Sulphate Time Series- NF02YO0020
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

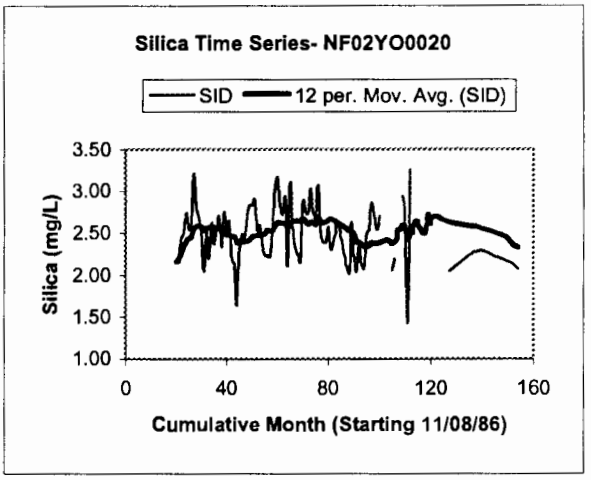

Magnesium Time Series- NF02YO0020
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

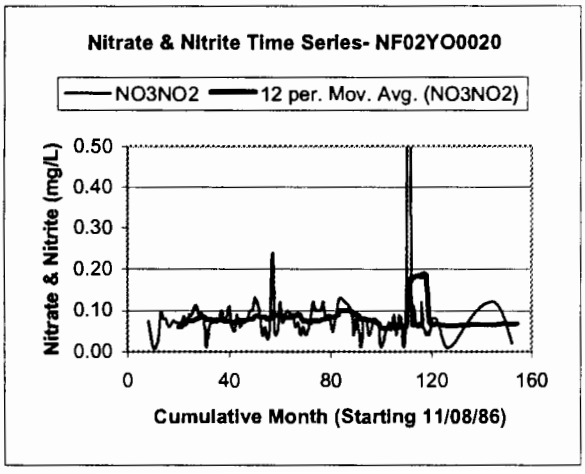

Chloride Time Series- NF02YO0020
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

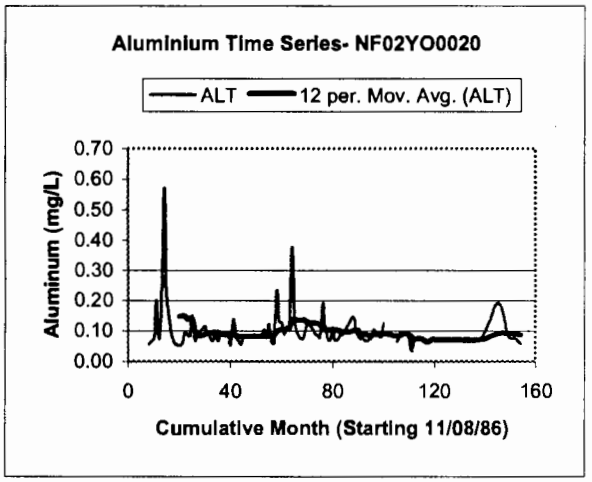

Dissolved Organic Carbon Time Series- NF02YO0020
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

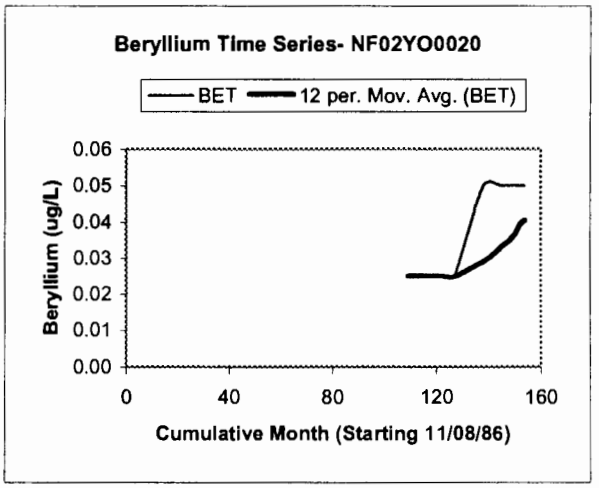

Nitrogen Time Series- NF02YO0020
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

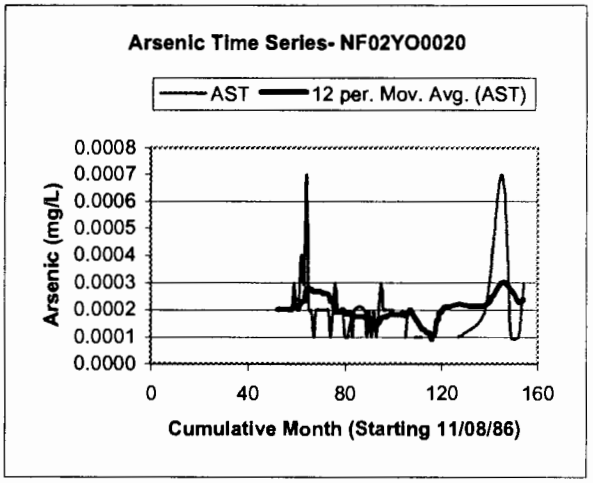

Phosphorous Time Series- NF02YO0020
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

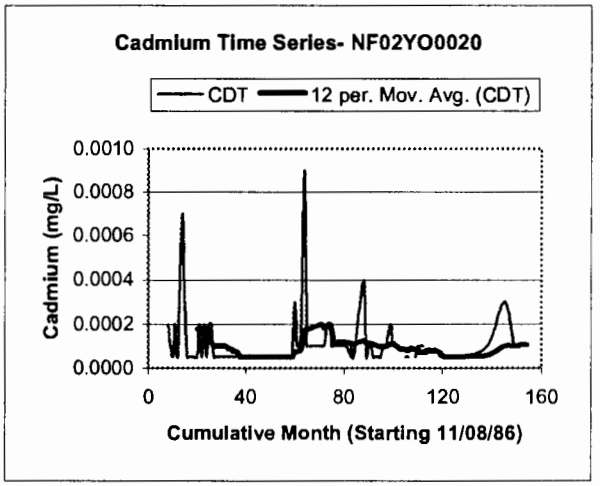

Silica Time Series- NF02YO0020
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

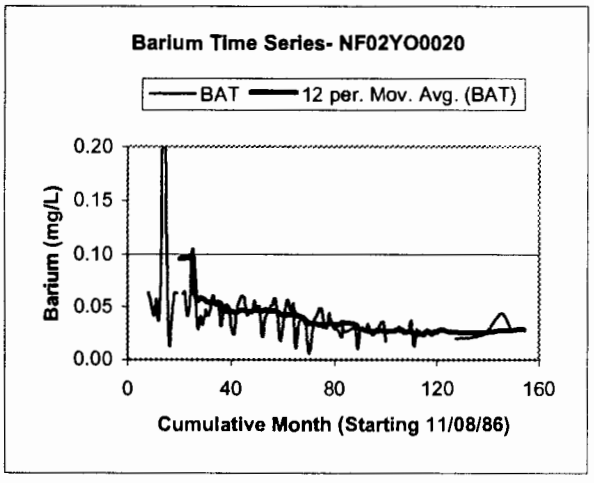

Nitrate & Nitrite Time Series- NF02YO0020
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

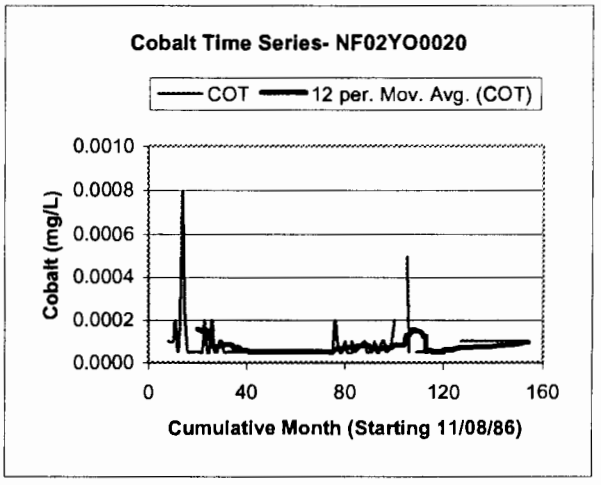

Aluminium Time Series- NF02YO0020
ALT
12 per. Mov. Avg. (ALT)
Aluminum (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

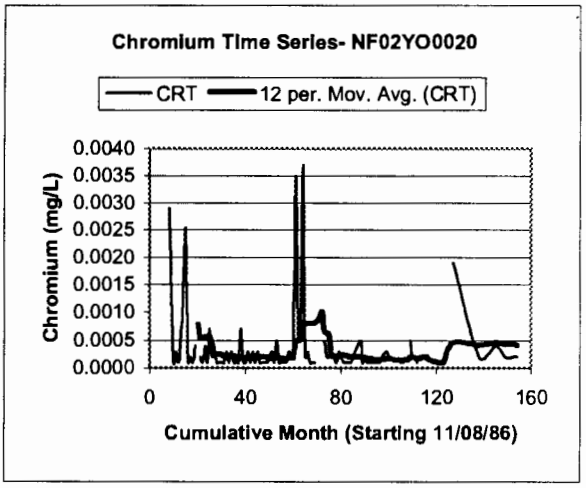

Beryllium Time Series- NF02YO0020
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

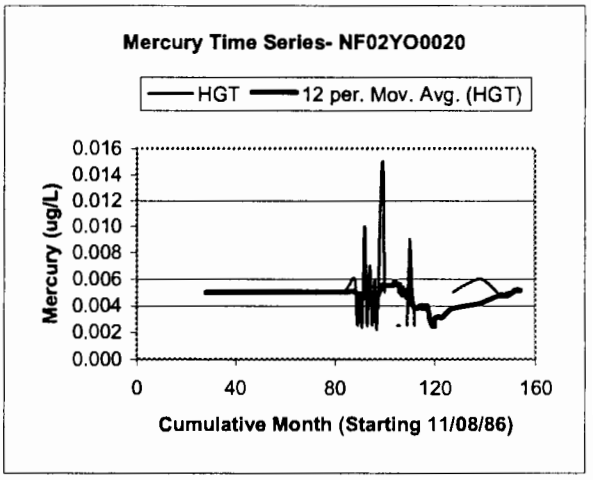

Arsenic Time Series- NF02YO0020
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

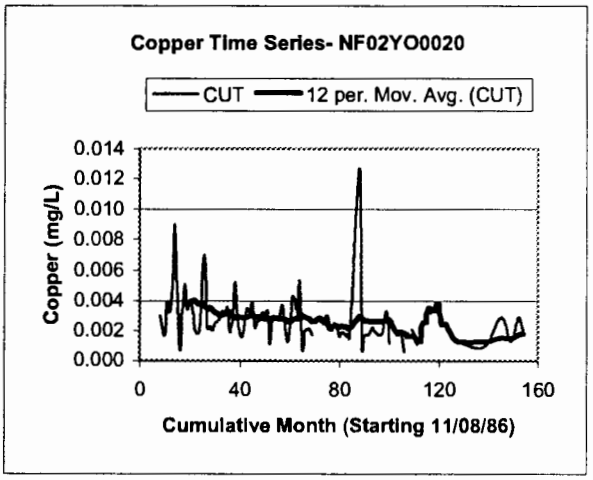

Cadmium Time Series- NF02YO0020
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

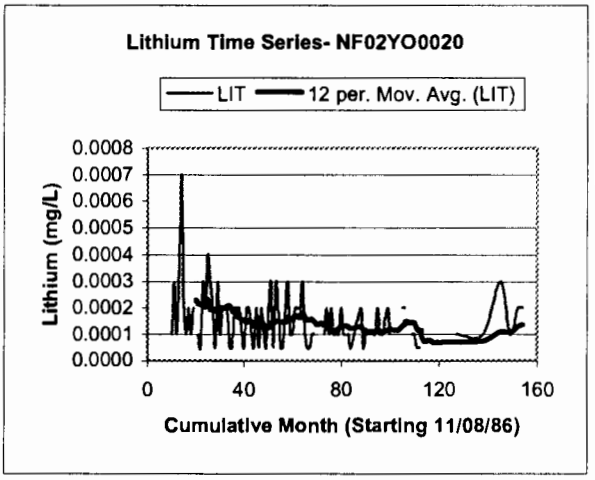

Barium Time Series- NF02YO0020
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

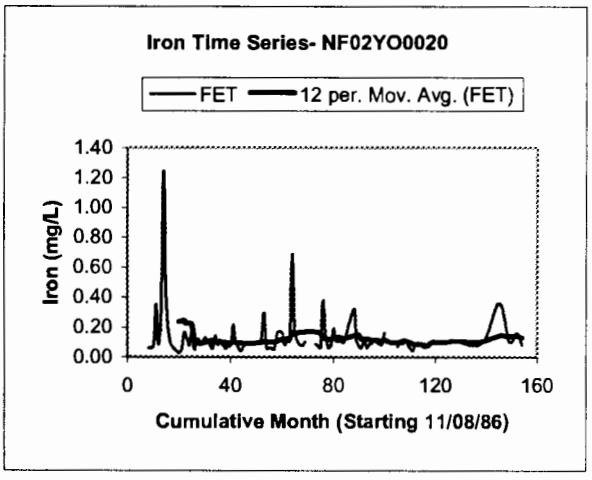

Cobalt Time Series- NF02YO0020
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

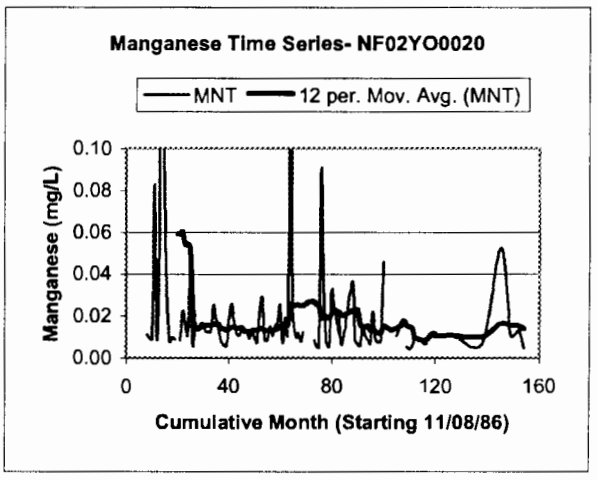

Chromium Time Series- NF02YO0020
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

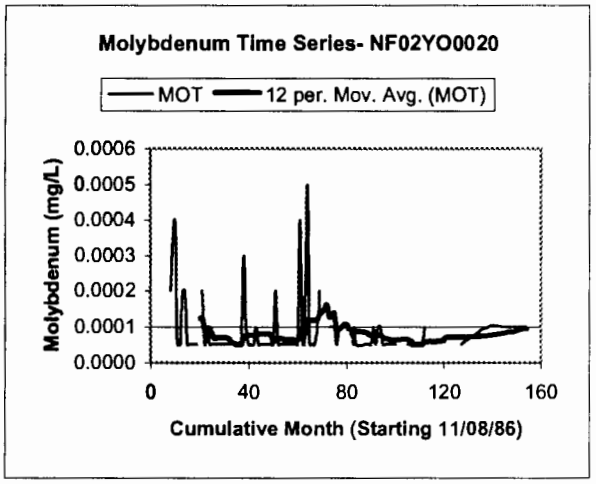

Mercury Time Series- NF02YO0020
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

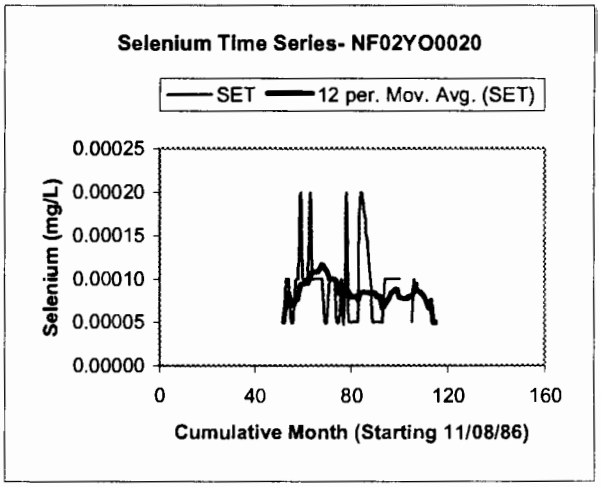

Copper Time Series- NF02YO0020
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

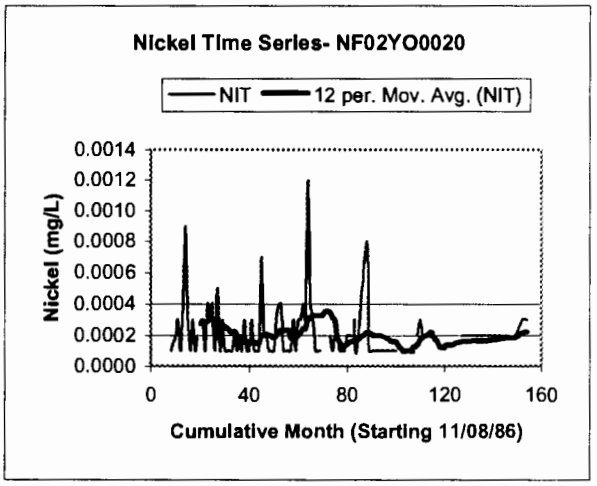

Lithium Time Series- NF02YO0020
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

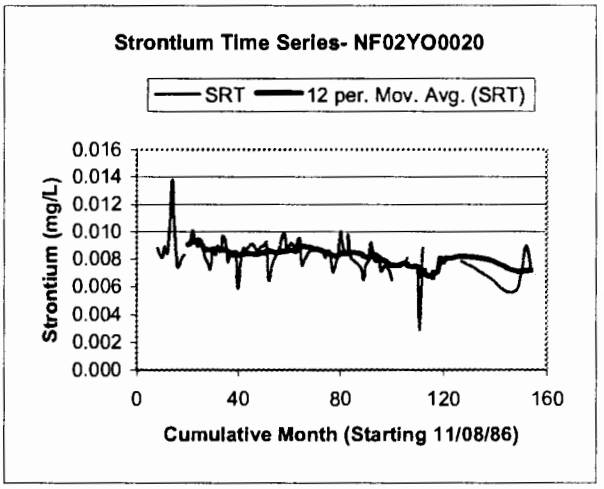

Iron Time Series- NF02YO0020
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

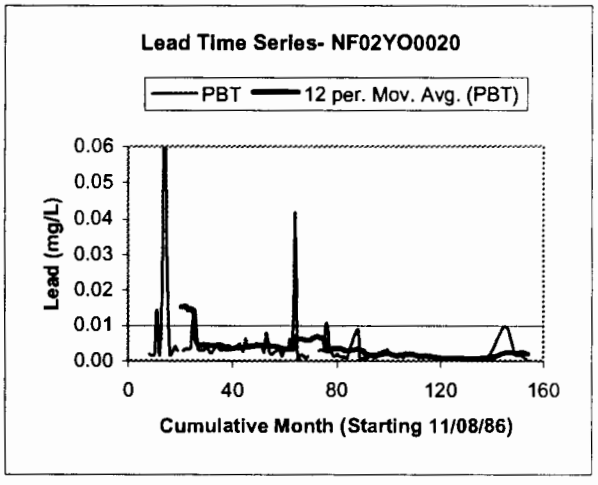

Manganese Time Series- NF02YO0020
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

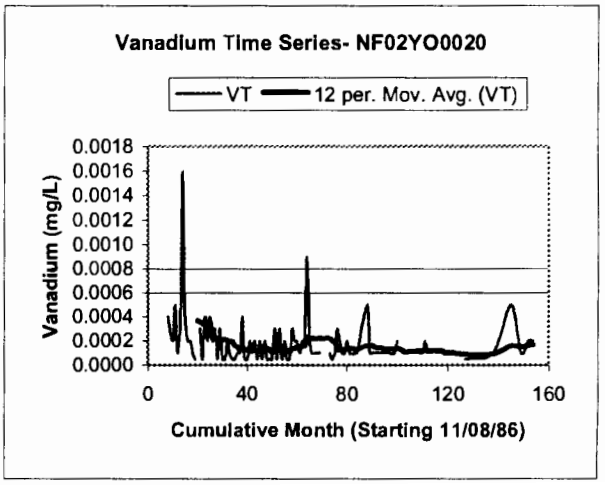

Molybdenum Time Series- NF02YO0020
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

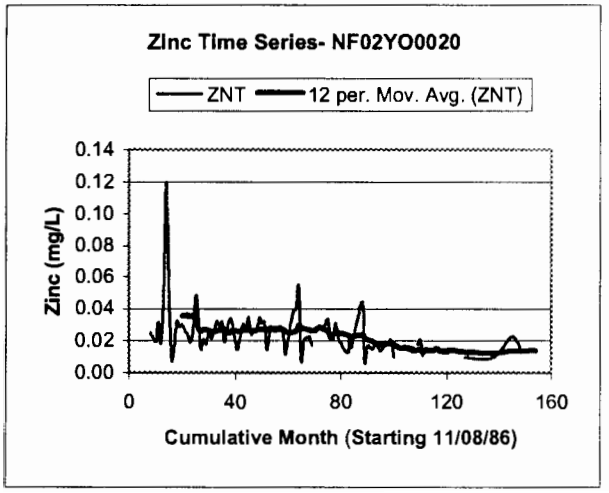

Selenium Time Series- NF02YO0020
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)


Nickel Time Series- NF02YO0020
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

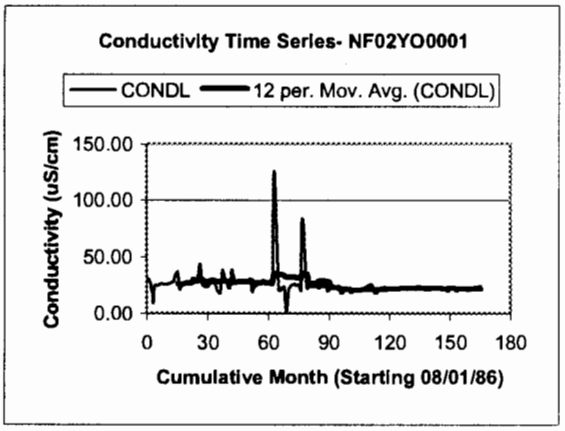

Strontium Time Series- NF02YO0020
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

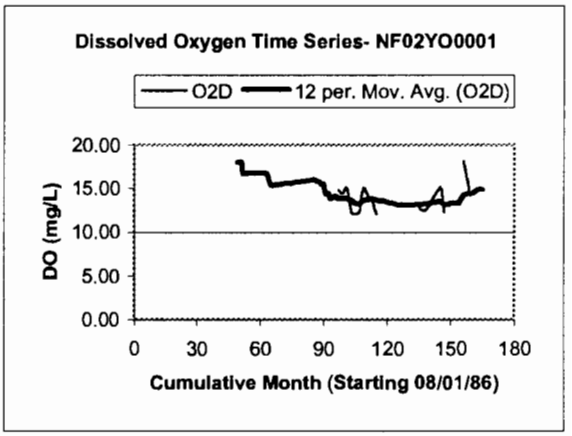

Lead Time Series- NF02YO0020
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

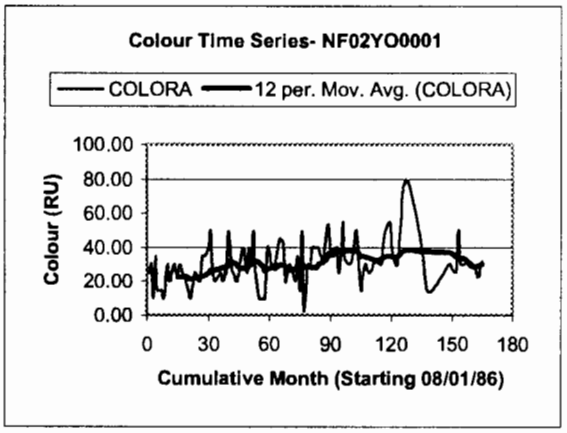

Vanadium Time Series- NF02YO0020
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0018
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

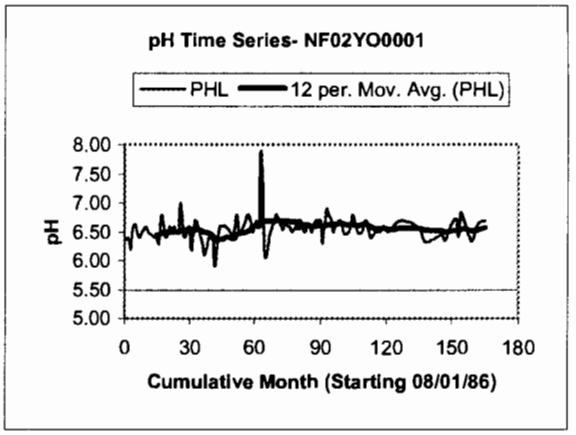

Zinc Time Series- NF02YO0020
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 11/08/86)

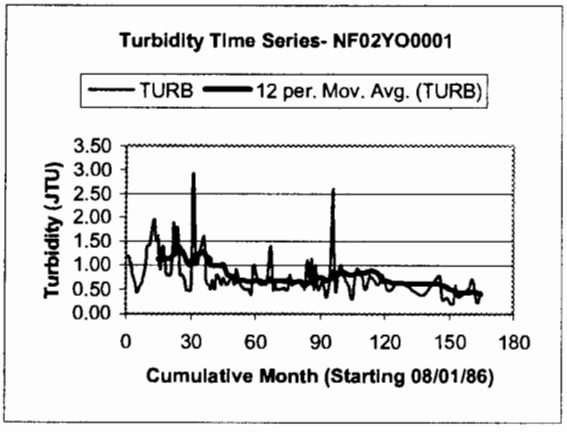
Time Series Plots of Exploits River (@ Grand Falls)- NF02YO0001

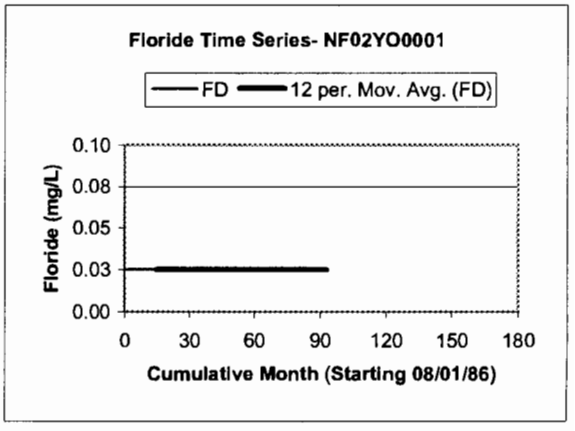


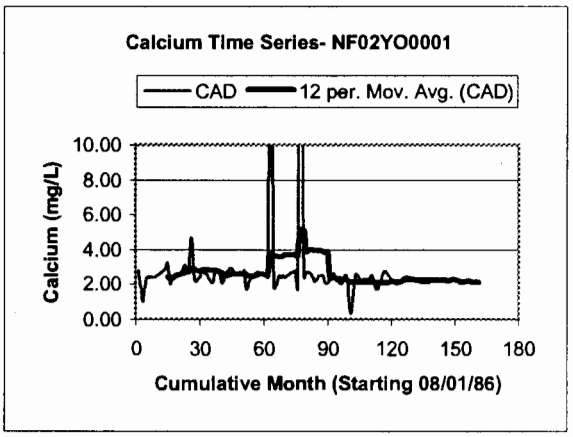


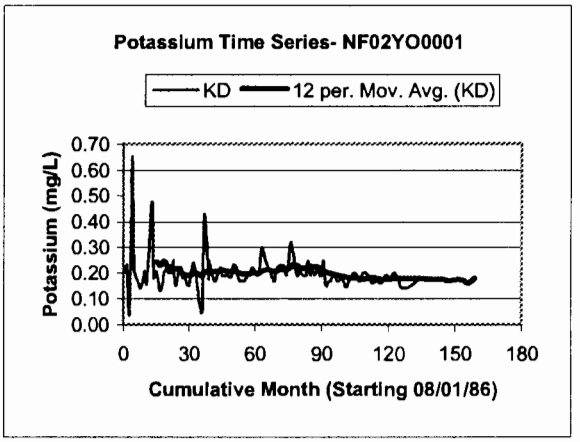


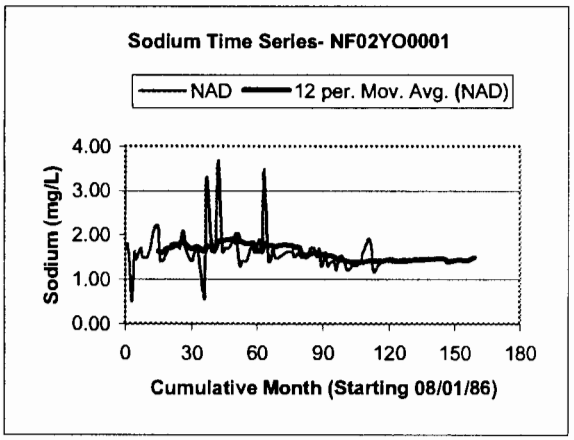


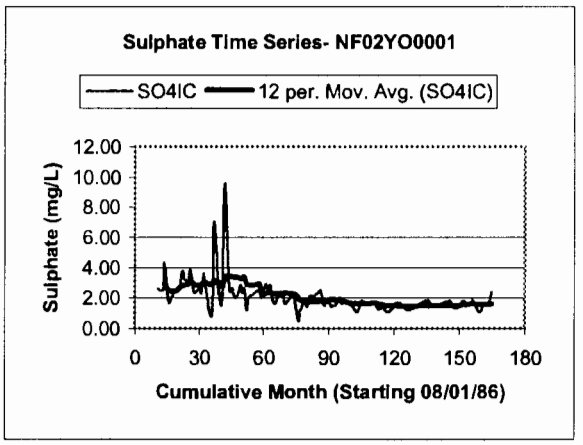


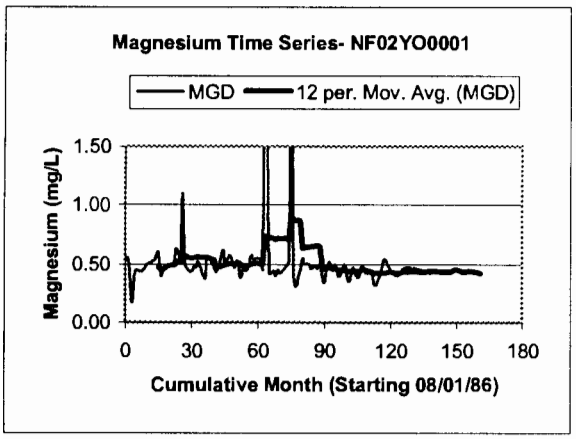


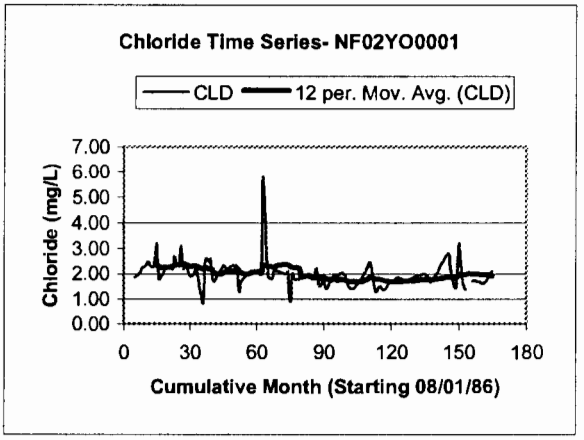

Calcium Time Series- NF02YO0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

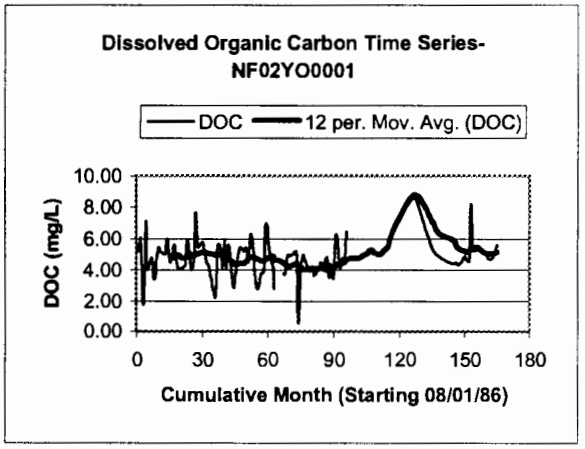

Potassium Time Series- NF02YO0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

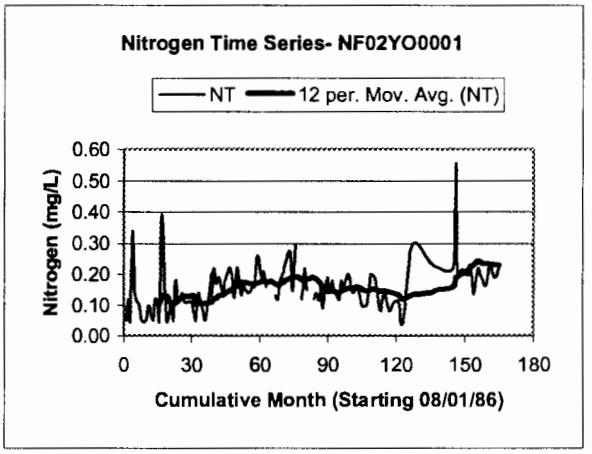

Sodium Time Series- NF02YO0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

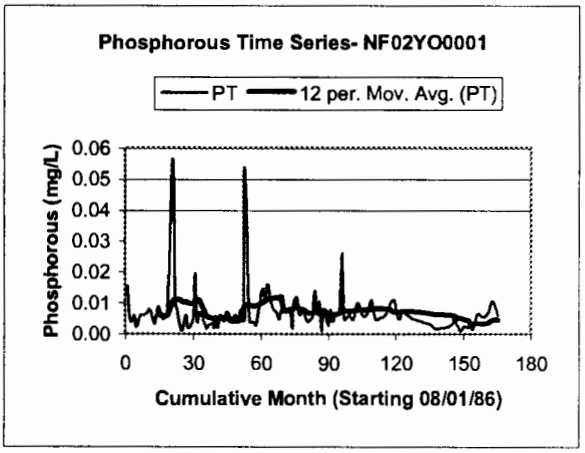

Sulphate Time Series- NF02YO0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

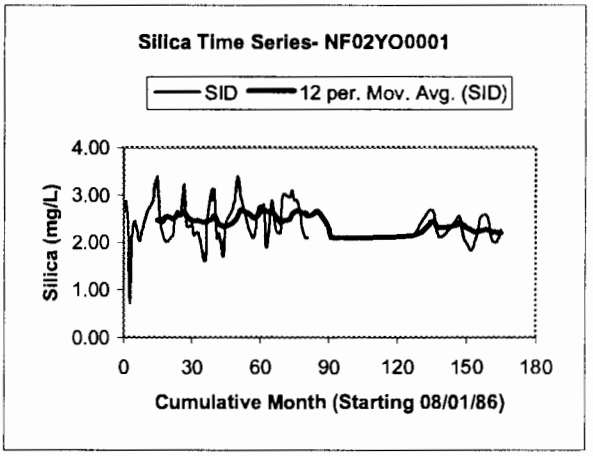

Magnesium Time Series- NF02YO0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

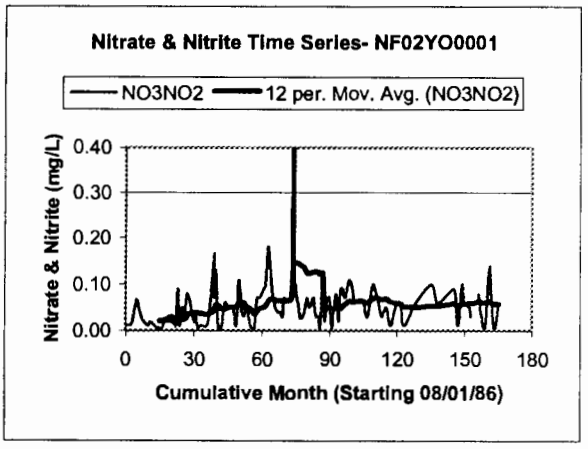

Chloride Time Series- NF02YO0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

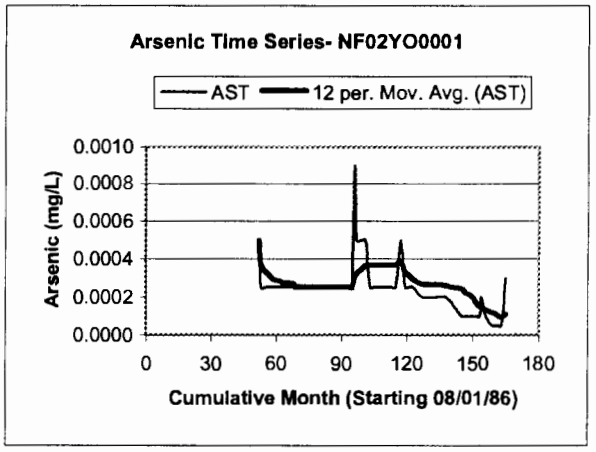

Dissolved Organic Carbon Time Series- NF02YO0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)


Nitrogen Time Series- NF02YO0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

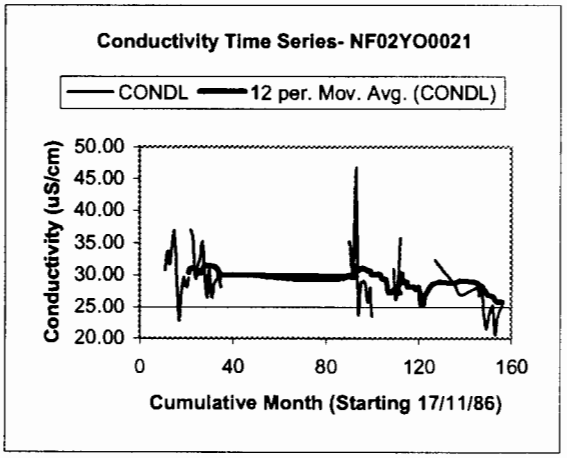

Phosphorous Time Series- NF02YO0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

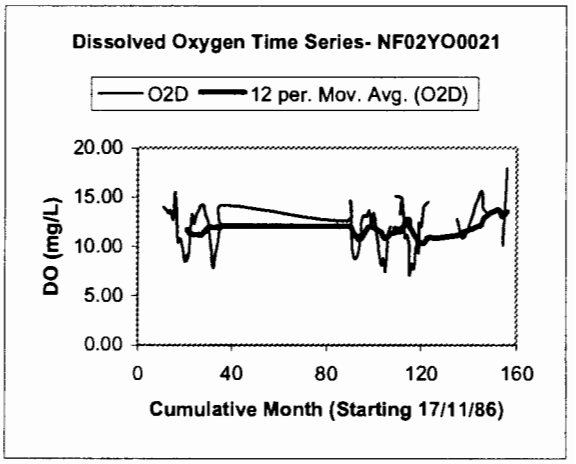

Silica Time Series- NF02YO0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

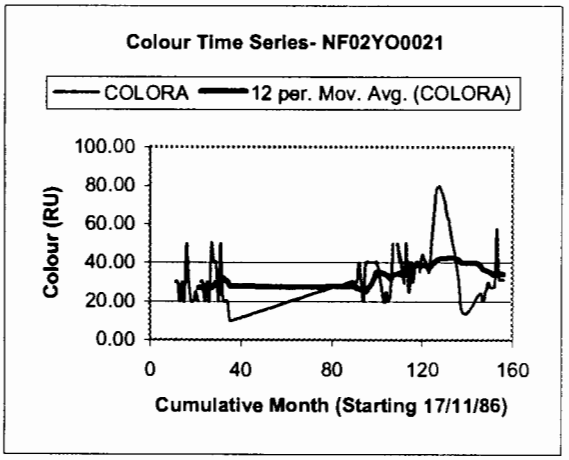

Nitrate & Nitrite Time Series- NF02YO0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

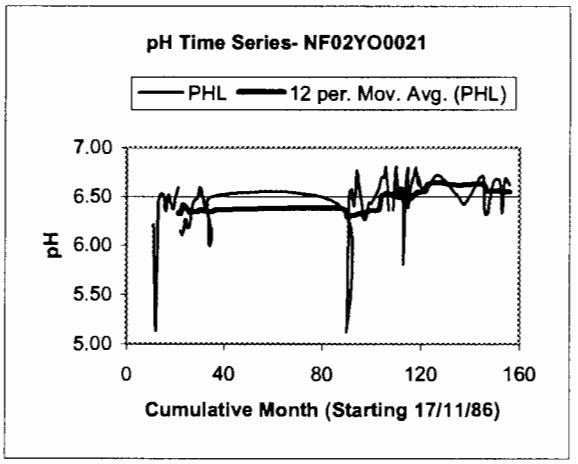

Arsenic Time Series- NF02YO0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 08/01/86)

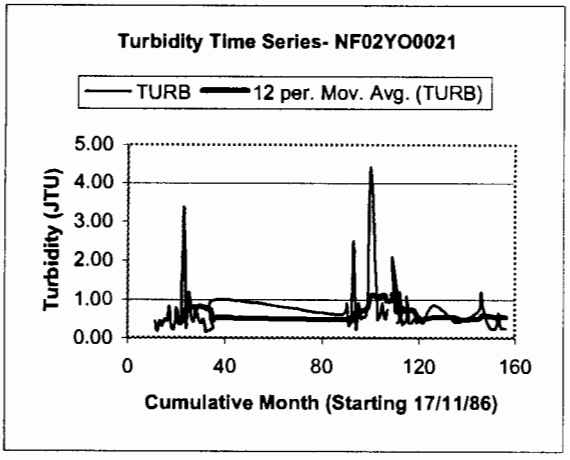
Time Series Plots of Exploits River (@ Bishop's Falls)- NF02YO0021

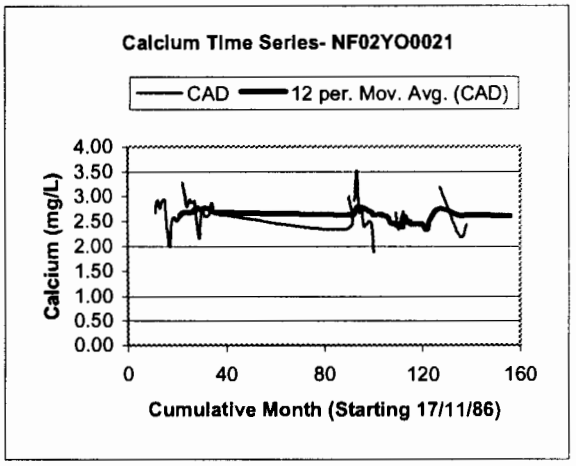


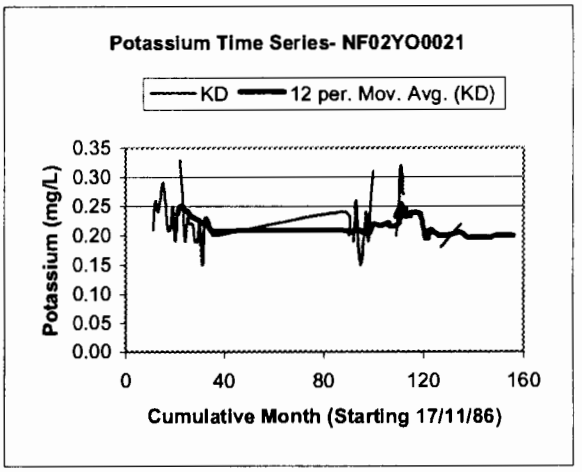


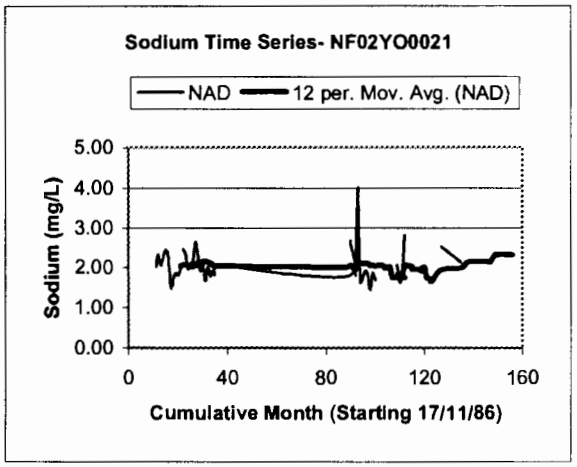


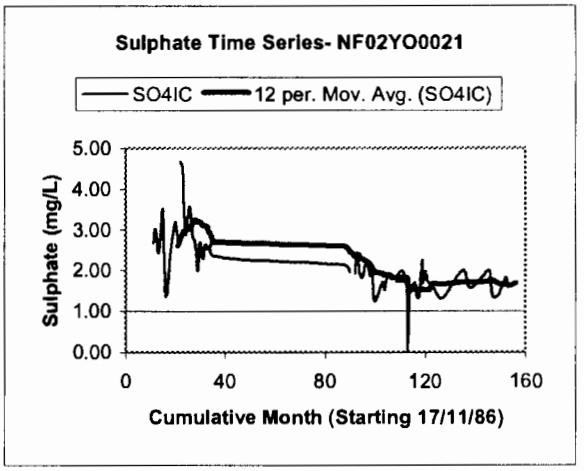


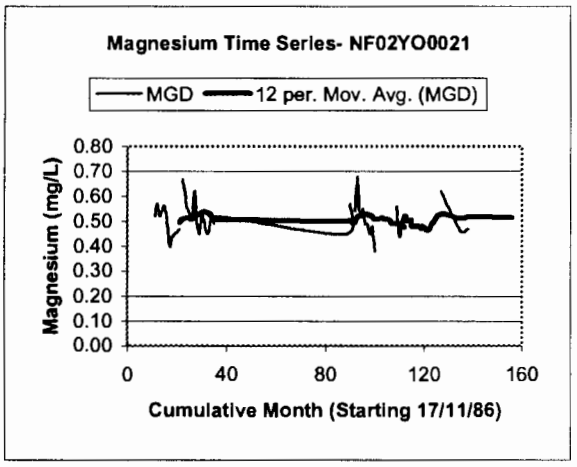


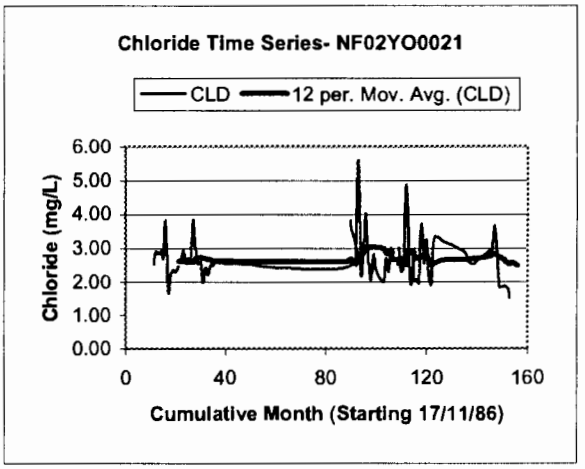

Calcium Time Series- NF02YO0021
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

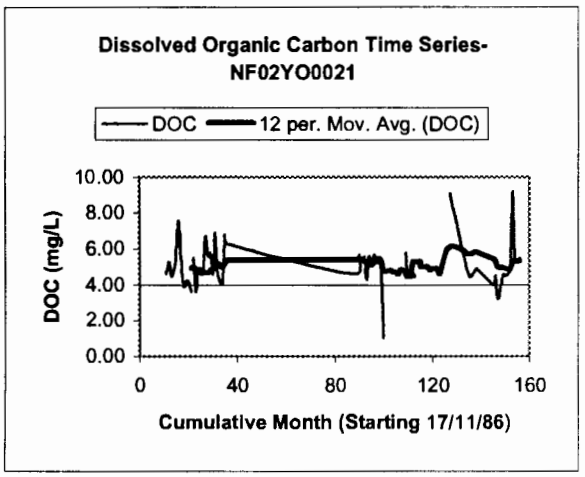

Potassium Time Series- NF02YO0021
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

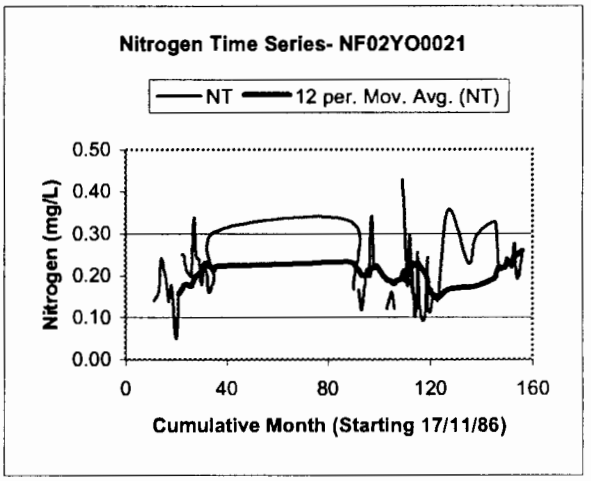

Sodium Time Series- NF02YO0021
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

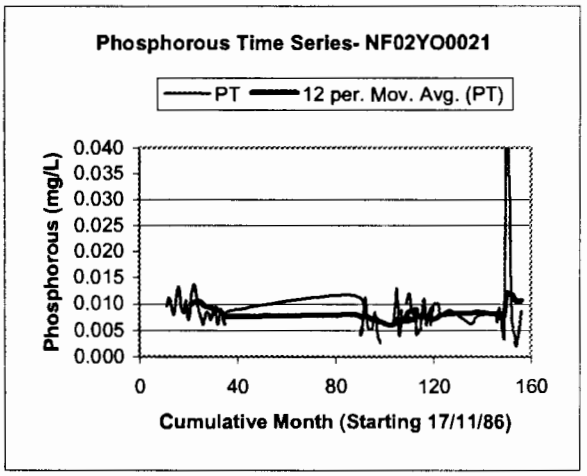

Sulphate Time Series- NF02YO0021
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

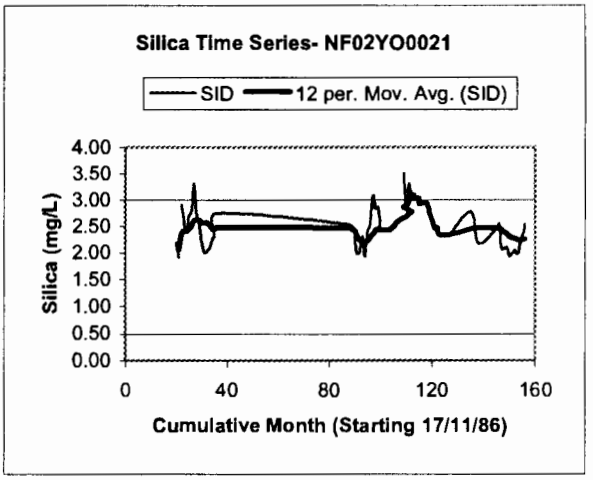

Magnesium Time Series- NF02YO0021
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

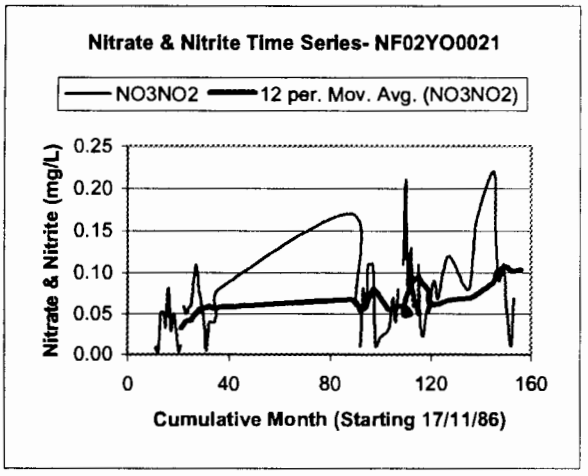

Chloride Time Series- NF02YO0021
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

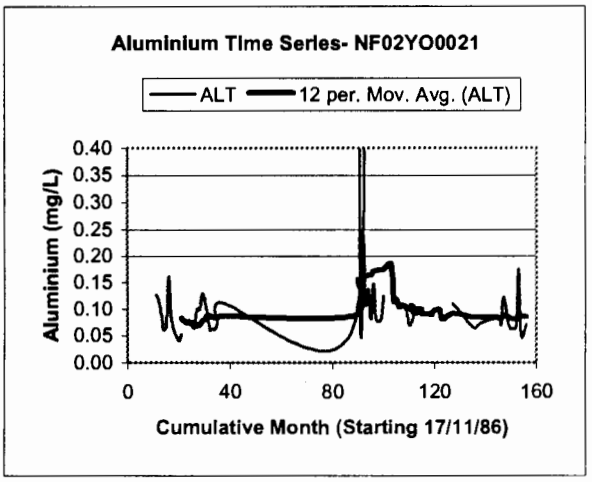

Dissolved Organic Carbon Time Series- NF02YO0021
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

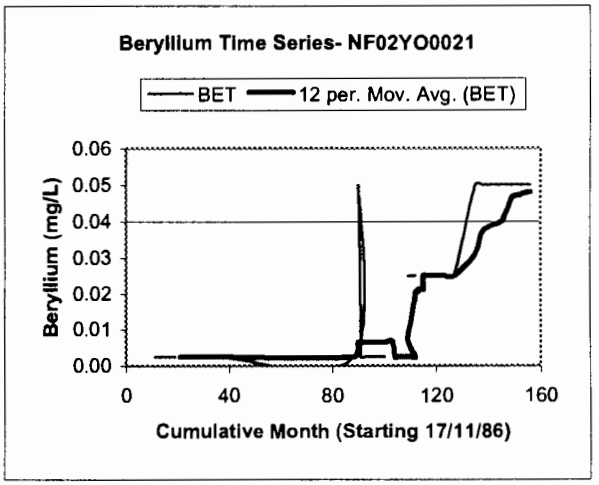

Nitrogen Time Series- NF02YO0021
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

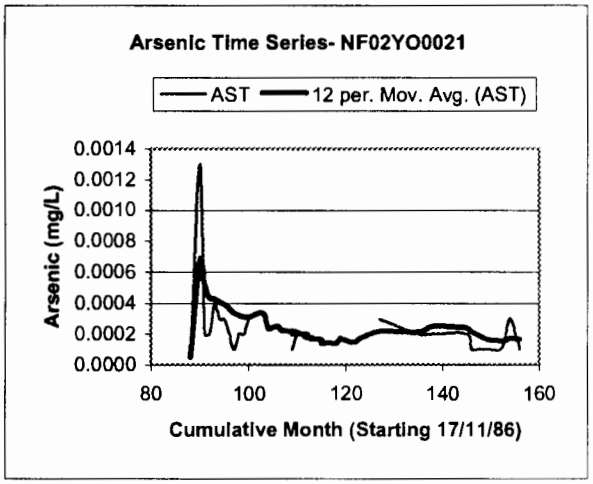

Phosphorous Time Series- NF02YO0021
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

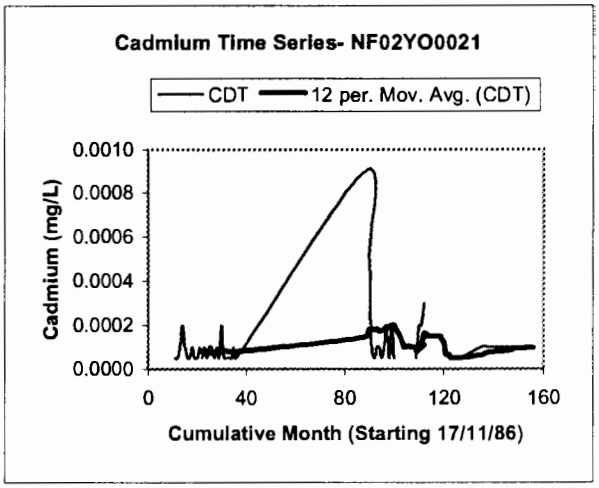

Silica Time Series- NF02YO0021
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

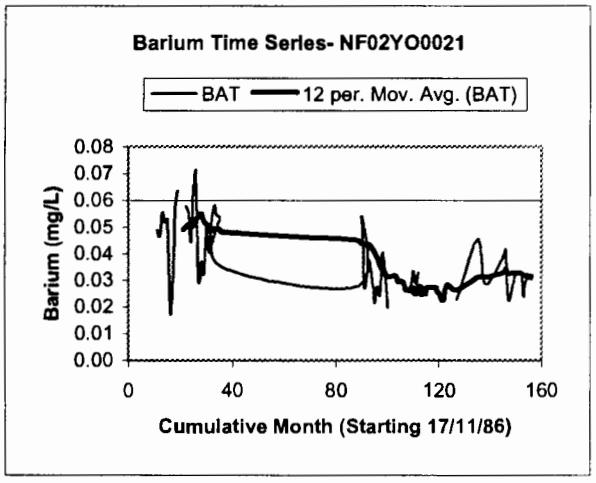

Nitrate & Nitrite Time Series- NF02YO0021
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

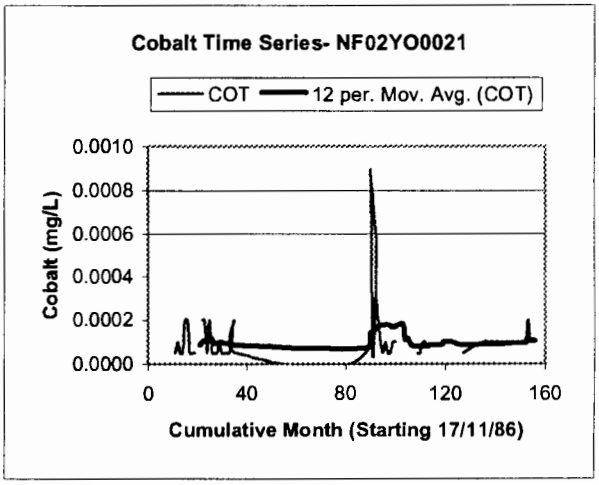

Aluminium Time Series- NF02YO0021
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

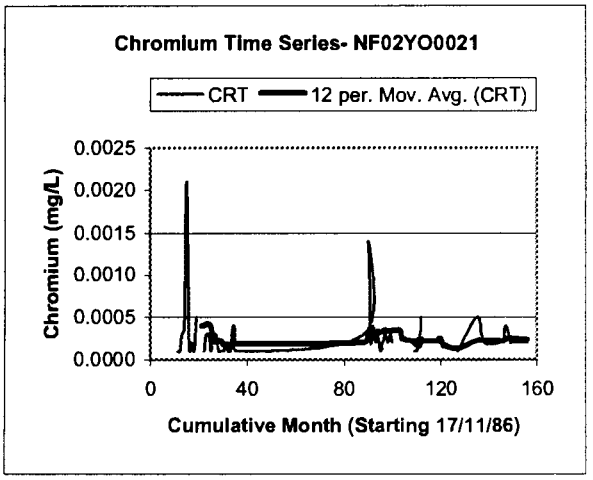

Beryllium Time Series- NF02YO0021
BET
12 per. Mov. Avg. (BET)
Beryllium (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

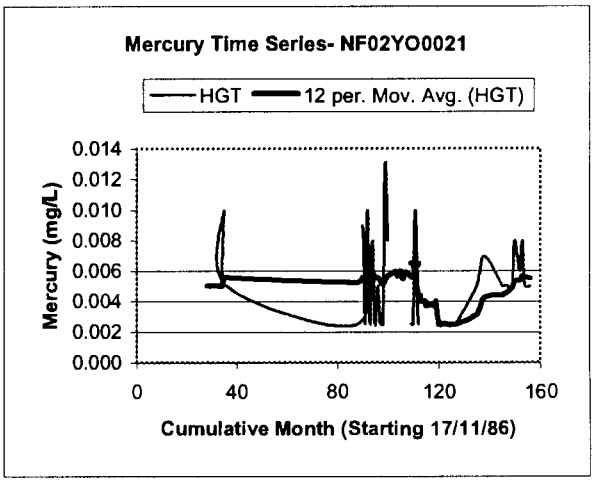

Arsenic Time Series- NF02YO0021
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
80
100
120
140
160
Cumulative Month (Starting 17/11/86)

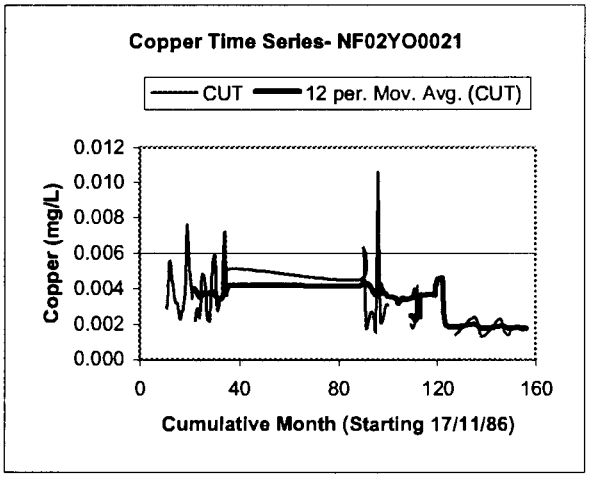

Cadmium Time Series- NF02YO0021
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

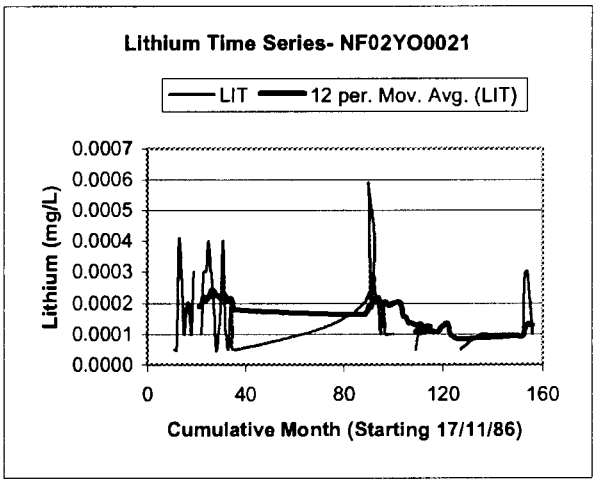

Barium Time Series- NF02YO0021
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

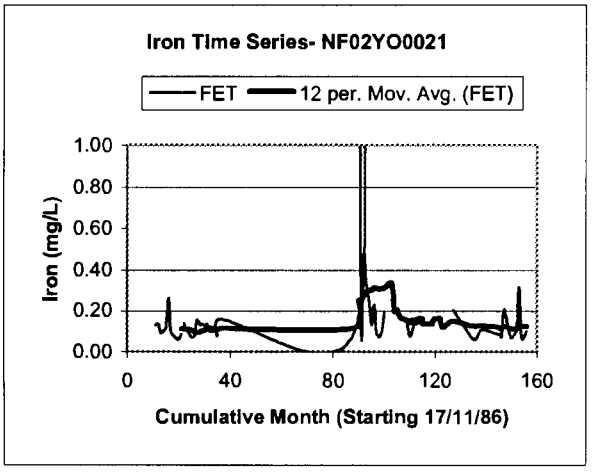

Cobalt Time Series- NF02YO0021
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

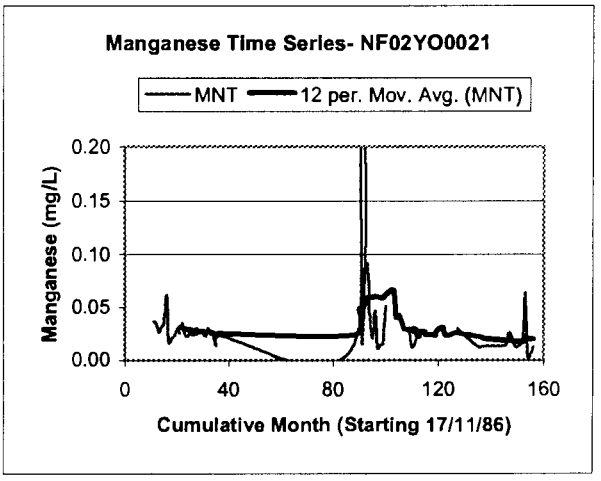

Chromium Time Series- NF02YO0021
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

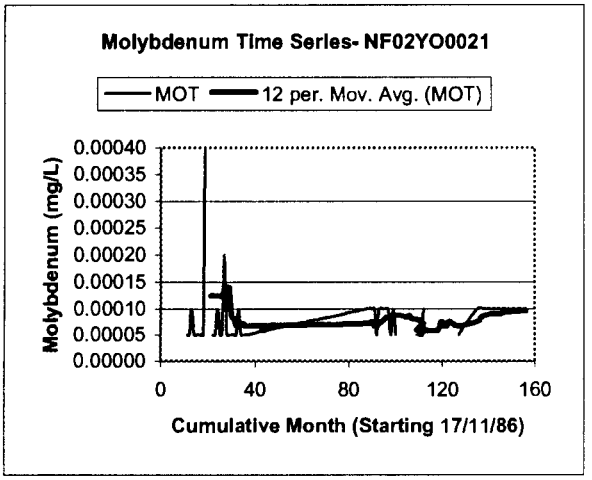

Mercury Time Series- NF02YO0021
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

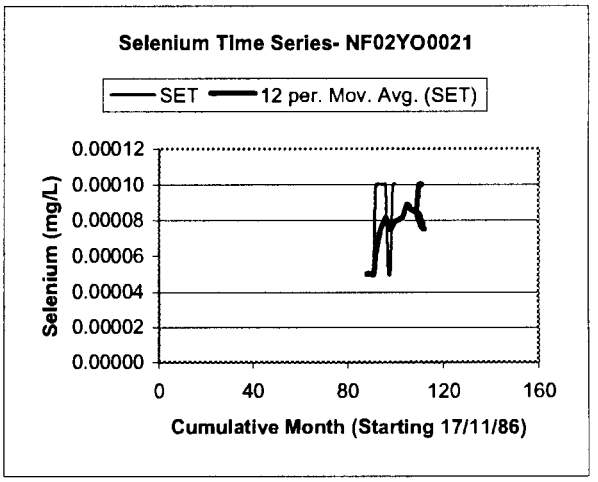

Copper Time Series- NF02YO0021
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

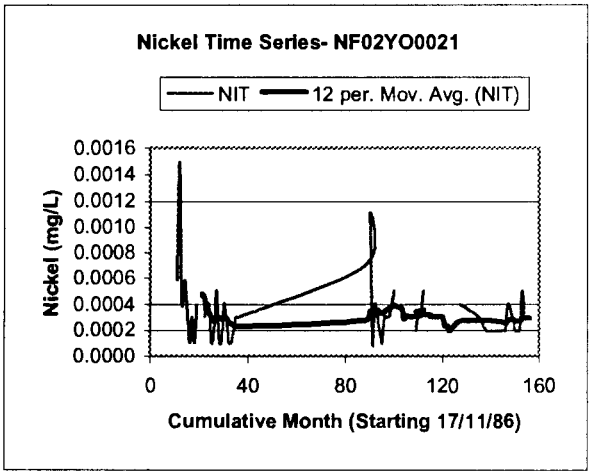

Lithium Time Series- NF02YO0021
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

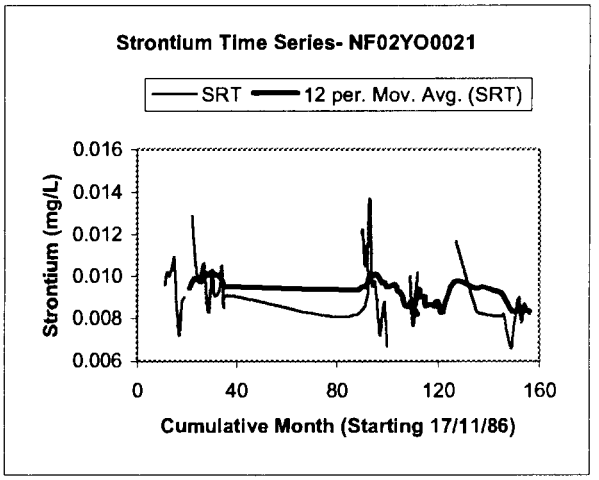

Iron Time Series- NF02YO0021
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

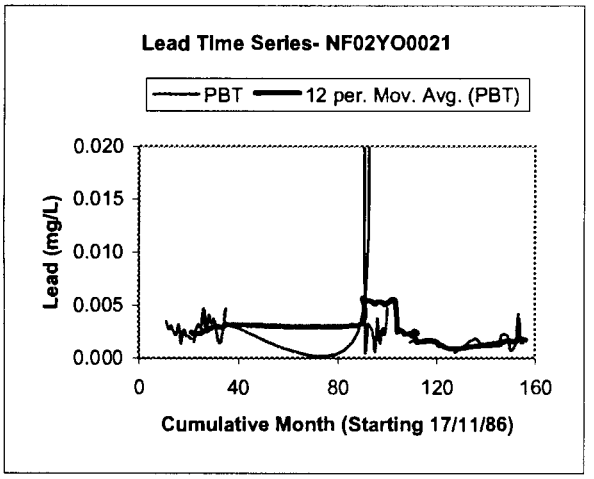

Manganese Time Series- NF02YO0021
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

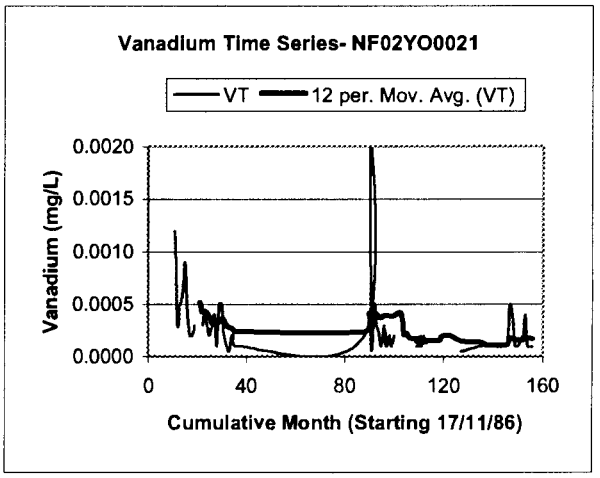

Molybdenum Time Series- NF02YO0021
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00040
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

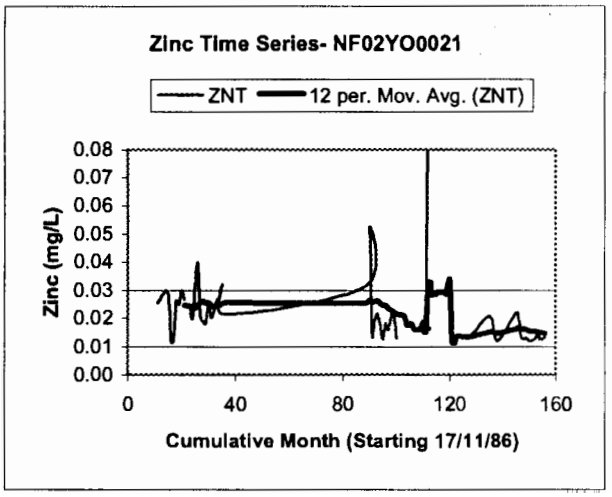

Selenium Time Series- NF02YO0021
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)


Nickel Time Series- NF02YO0021
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

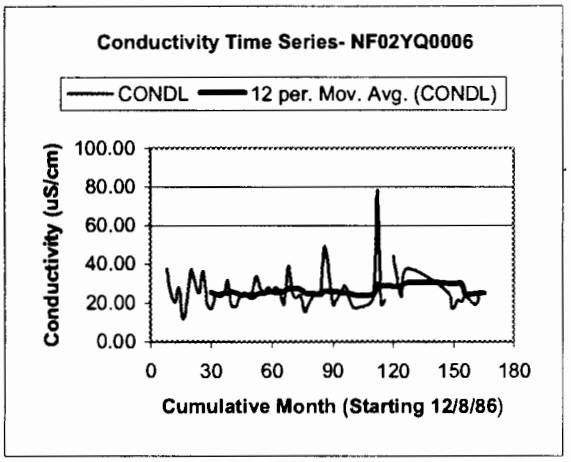

Strontium Time Series- NF02YO0021
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

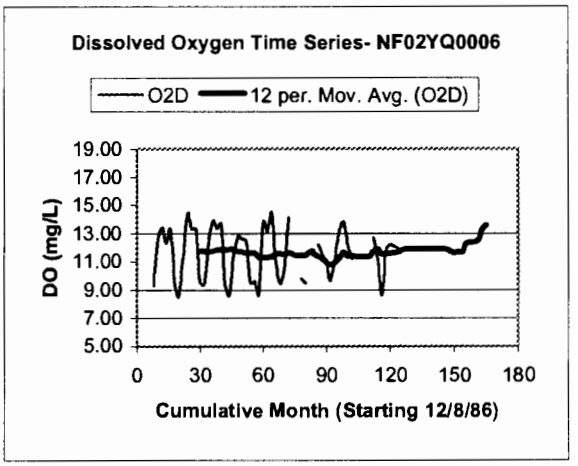

Lead Time Series- NF02YO0021
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

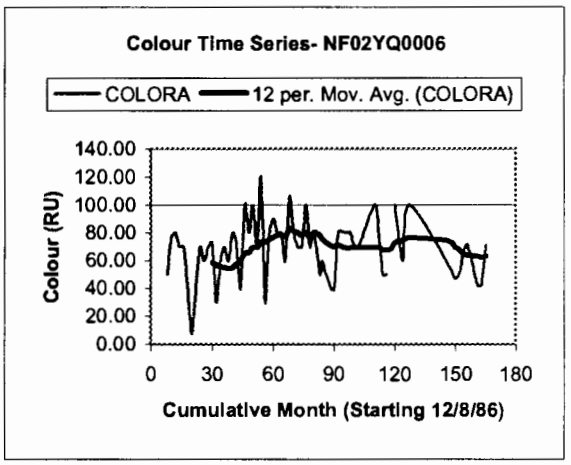

Vanadium Time Series- NF02YO0021
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

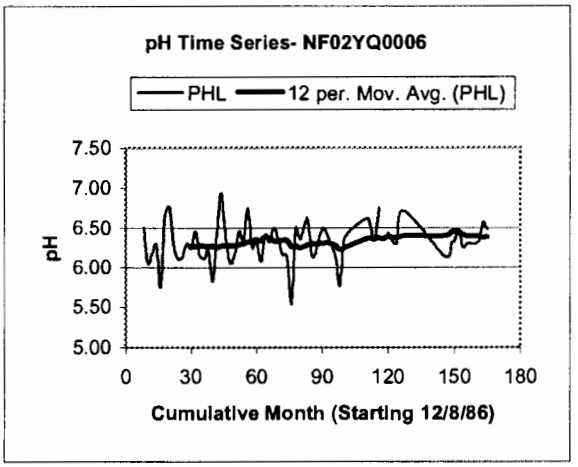

Zinc Time Series- NF02YO0021
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 17/11/86)

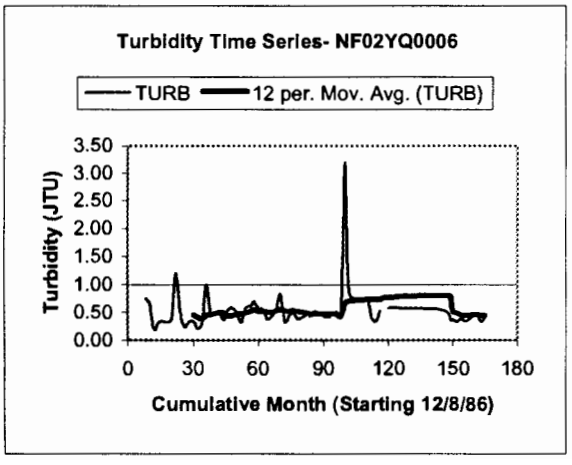
Time Series Plots of Northwest Gander River-NF02YQ0006

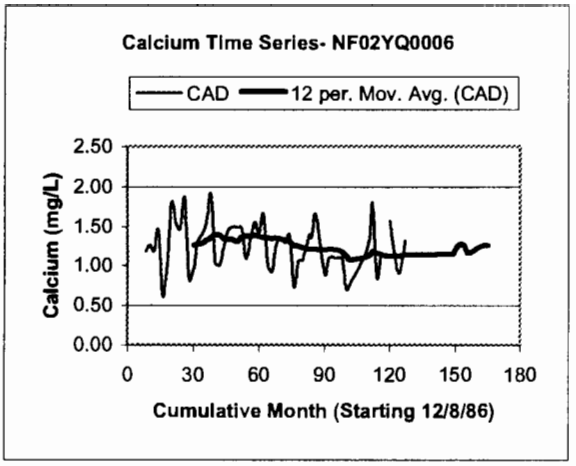


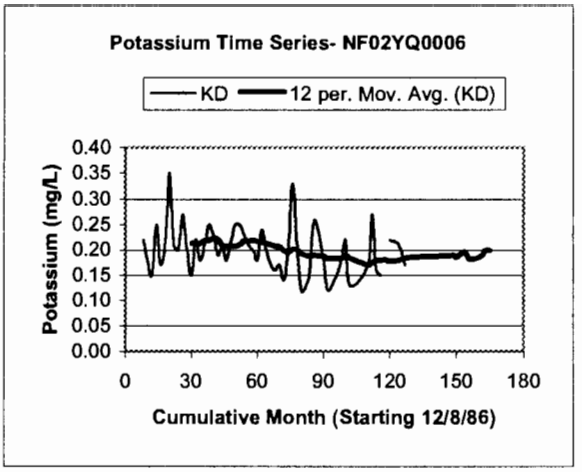


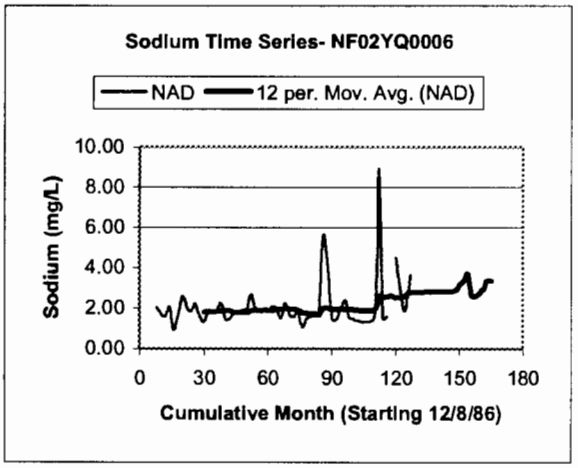


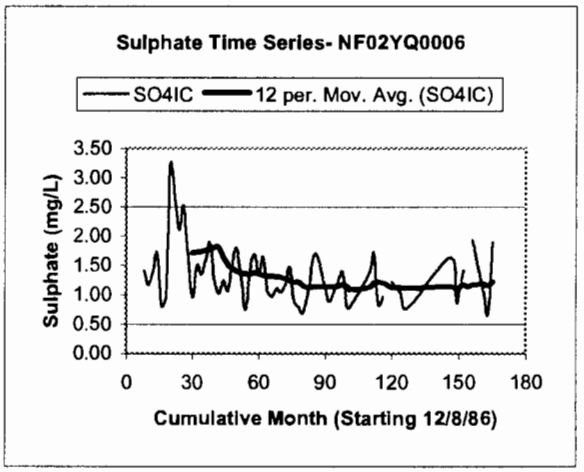


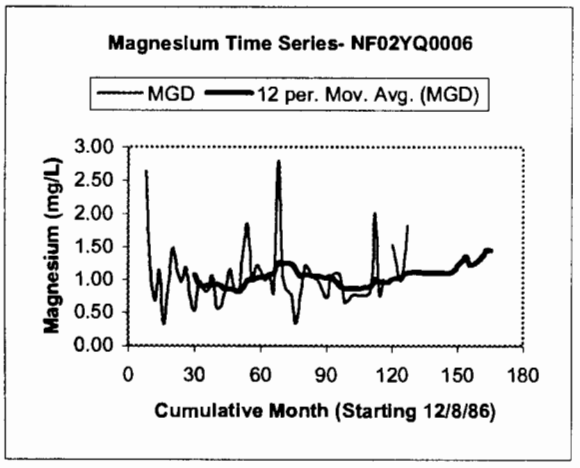


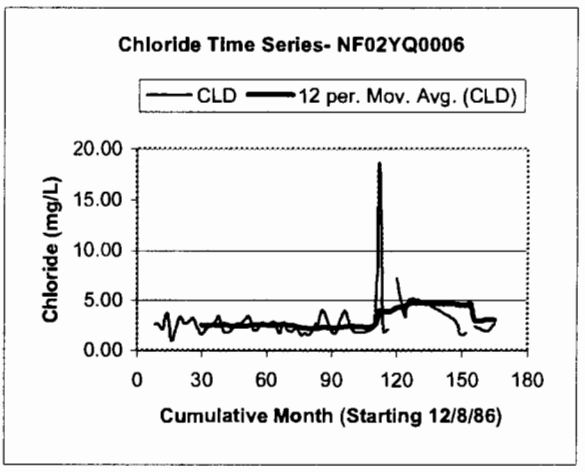

Calcium Time Series- NF02YQ0006
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

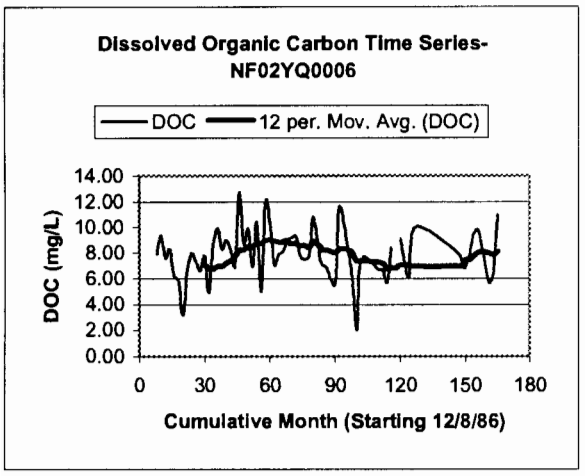

Potassium Time Series- NF02YQ0006
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

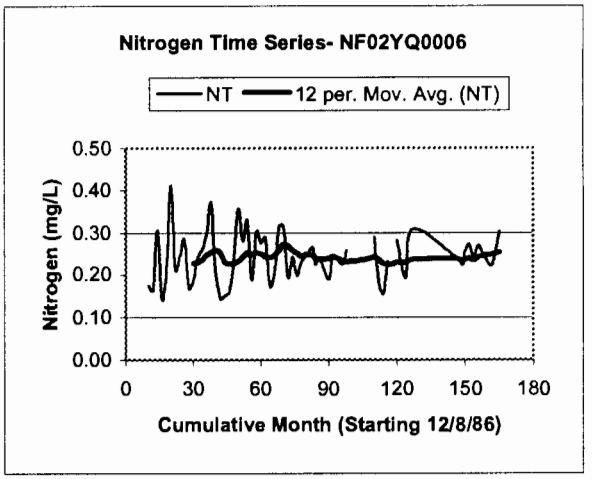

Sodium Time Series- NF02YQ0006
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

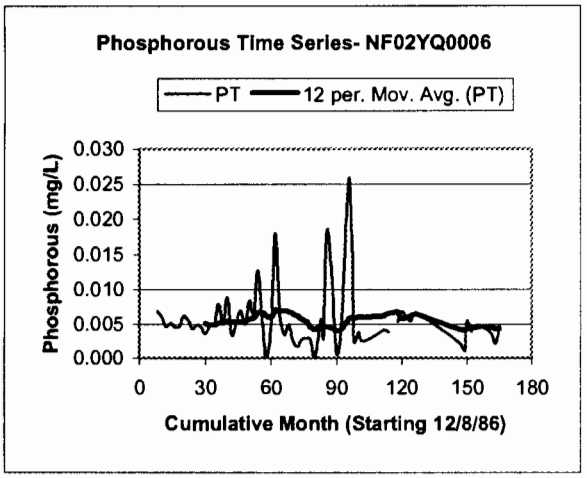

Sulphate Time Series- NF02YQ0006
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

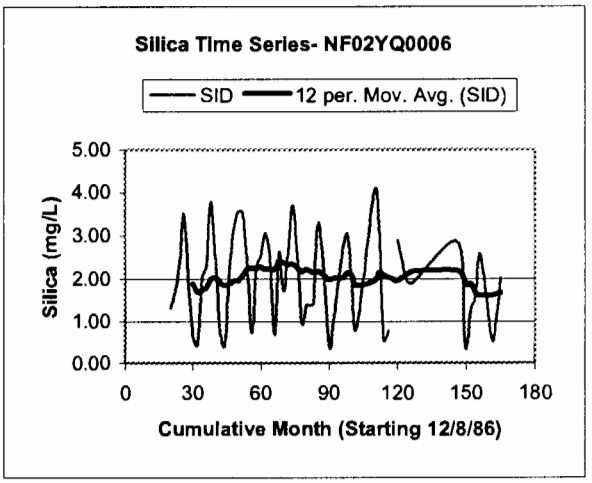

Magnesium Time Series- NF02YQ0006
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

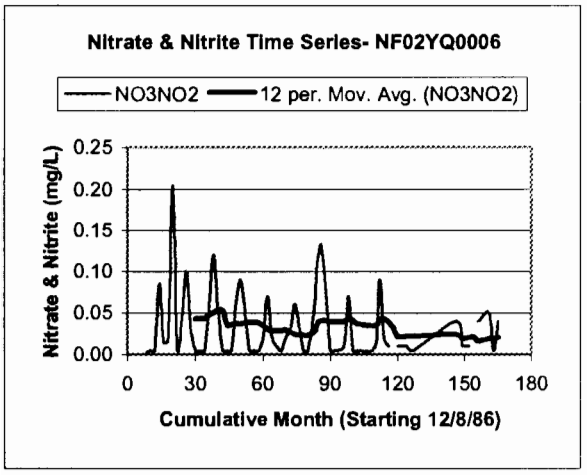

Chloride Time Series- NF02YQ0006
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

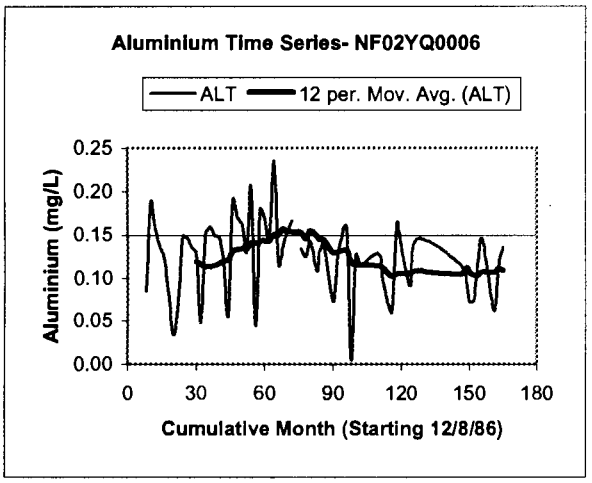

Dissolved Organic Carbon Time Series- NF02YQ0006
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

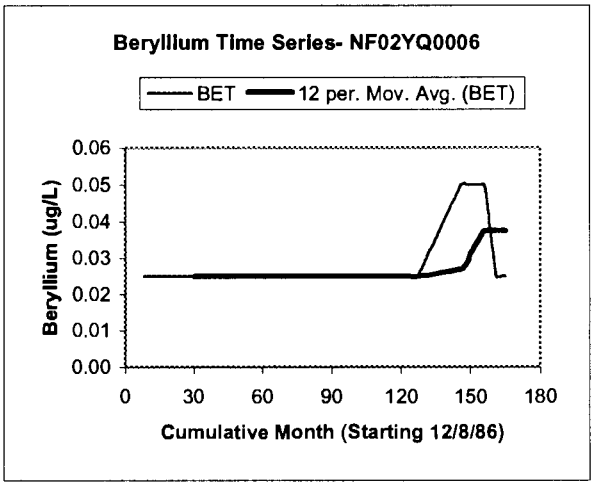

Nitrogen Time Series- NF02YQ0006
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

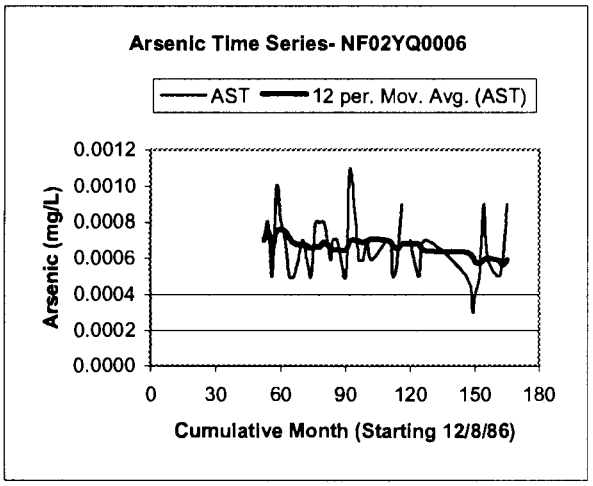

Phosphorous Time Series- NF02YQ0006
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

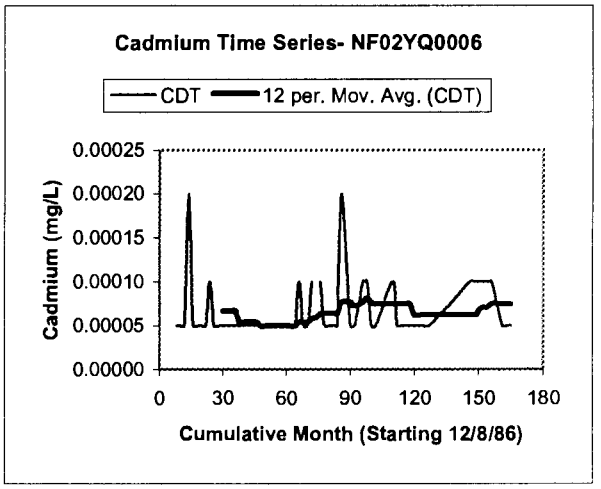

Silica Time Series- NF02YQ0006
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

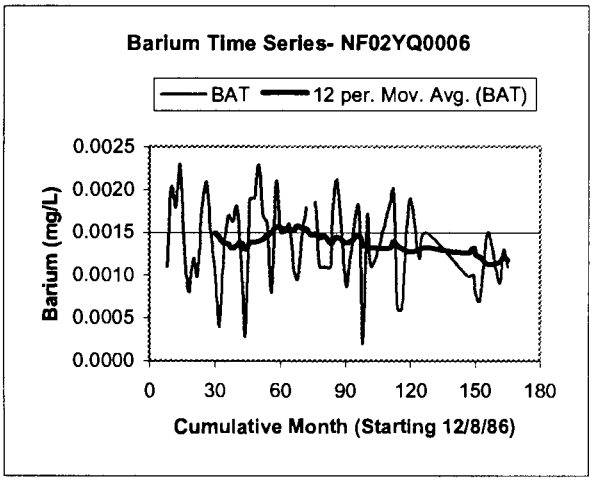

Nitrate & Nitrite Time Series- NF02YQ0006
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

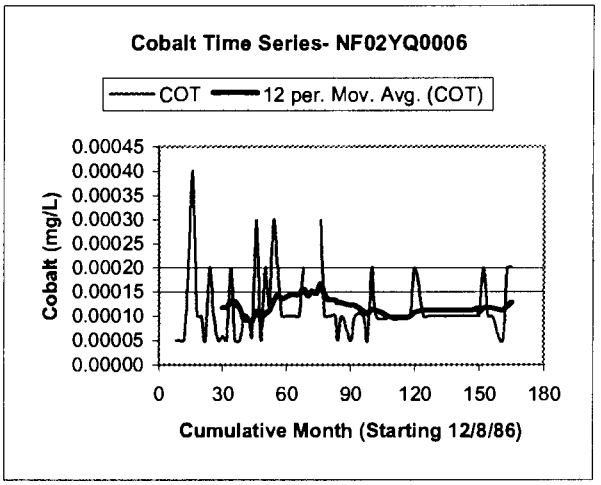

Aluminium Time Series- NF02YQ0006
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

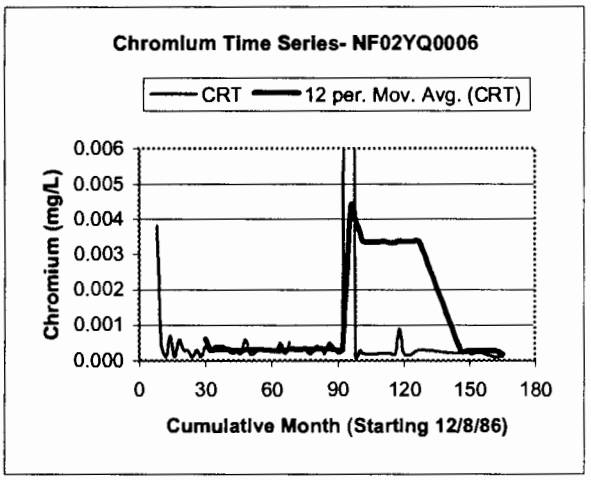

Beryllium Time Series- NF02YQ0006
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

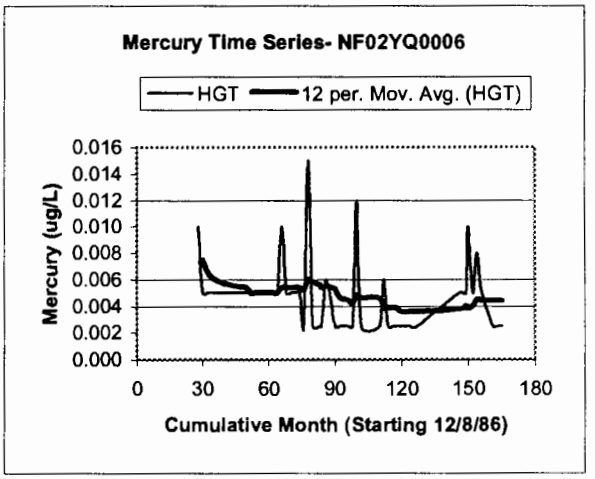

Arsenic Time Series- NF02YQ0006
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

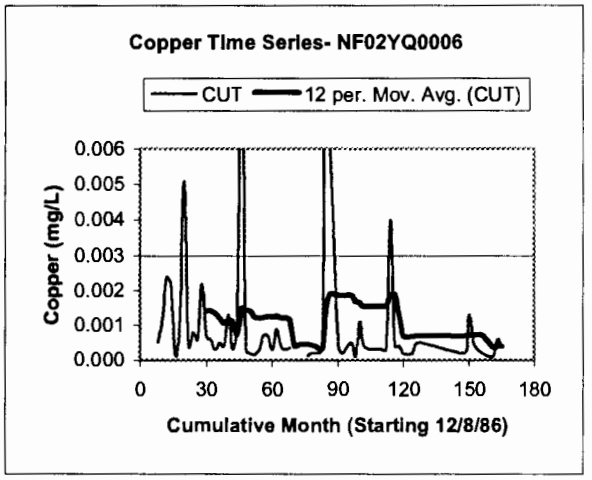

Cadmium Time Series- NF02YQ0006
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

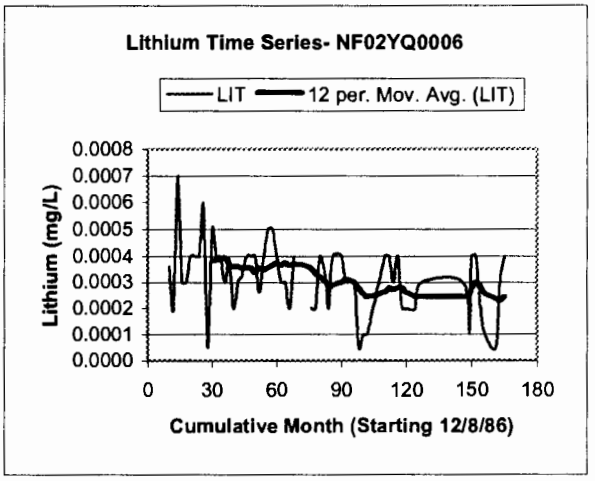

Barium Time Series- NF02YQ0006
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

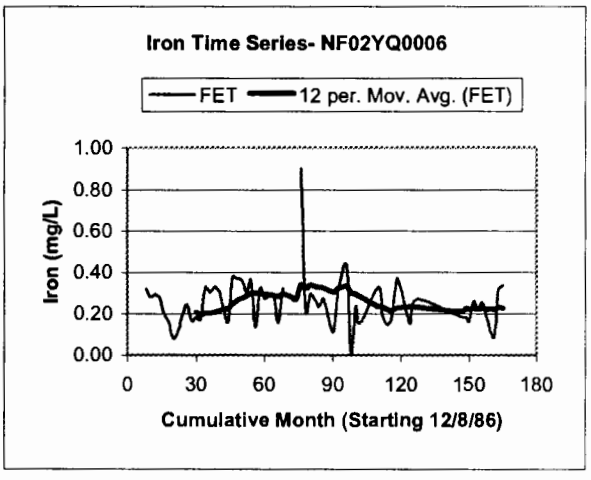

Cobalt Time Series- NF02YQ0006
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00045
0.00040
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

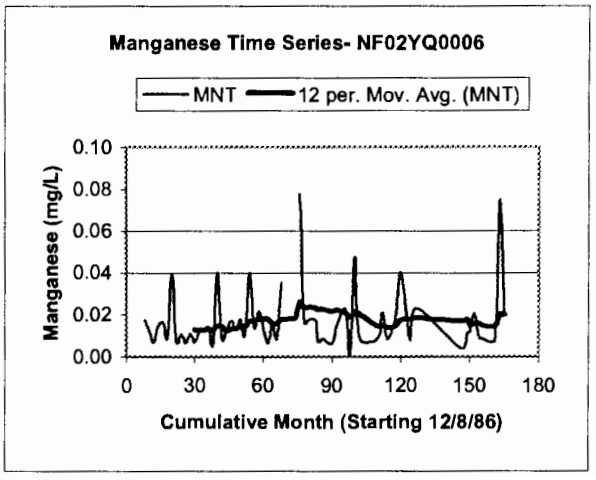

Chromium Time Series- NF02YQ0006
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

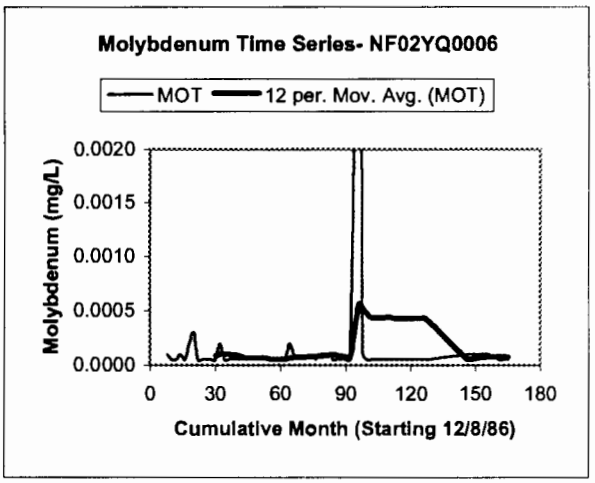

Mercury Time Series- NF02YQ0006
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

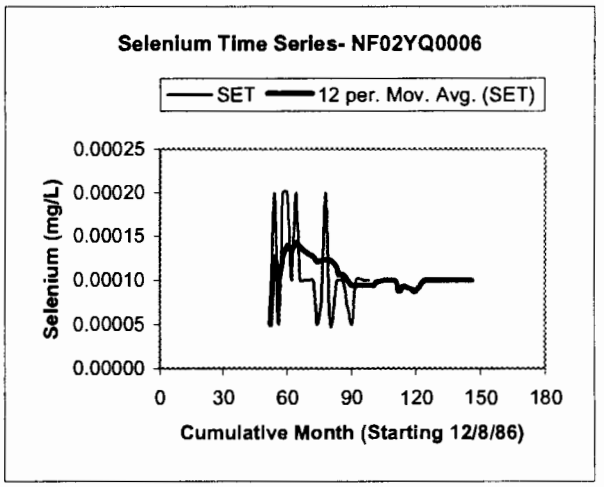

Copper Time Series- NF02YQ0006
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

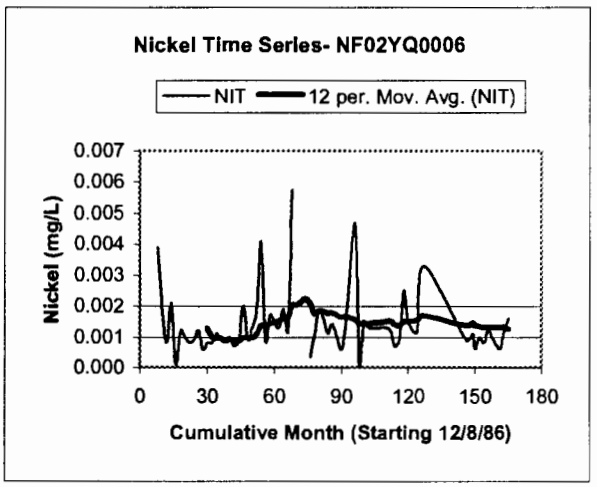

Lithium Time Series- NF02YQ0006
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

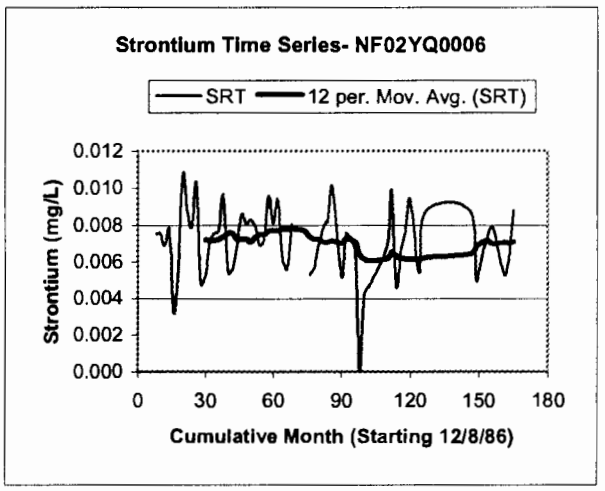

Iron Time Series- NF02YQ0006
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

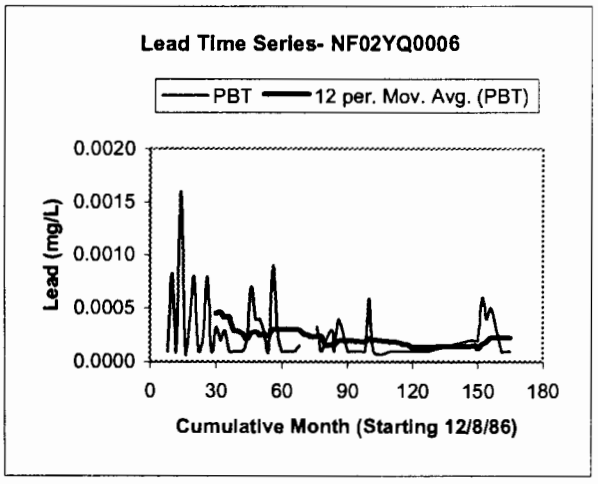

Manganese Time Series- NF02YQ0006
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

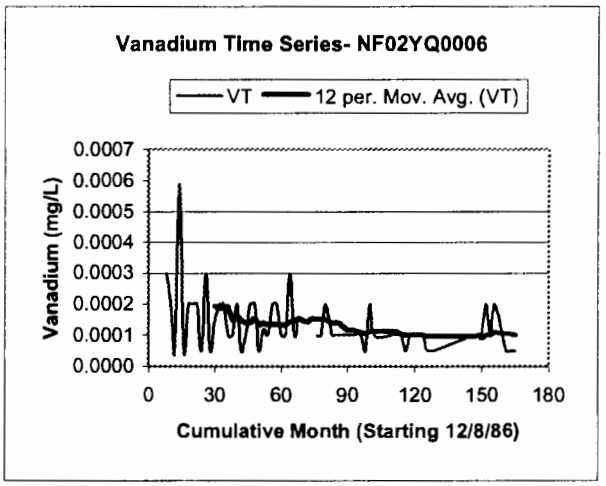

Molybdenum Time Series- NF02YQ0006
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

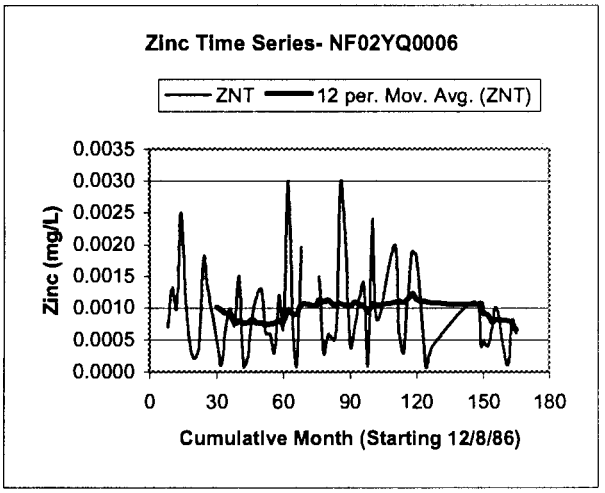

Selenium Time Series- NF02YQ0006
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)


Nickel Time Series- NF02YQ0006
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

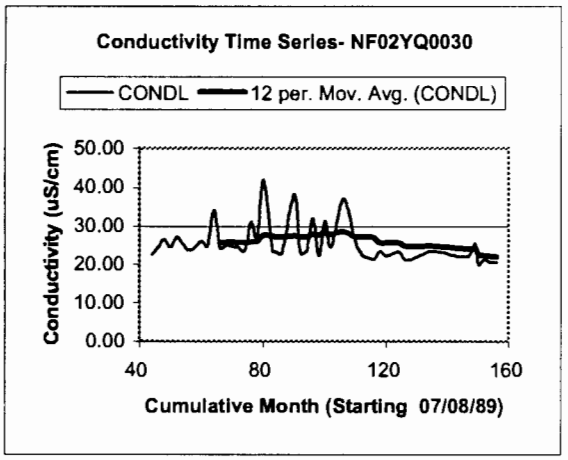

Strontium Time Series- NF02YQ0006
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

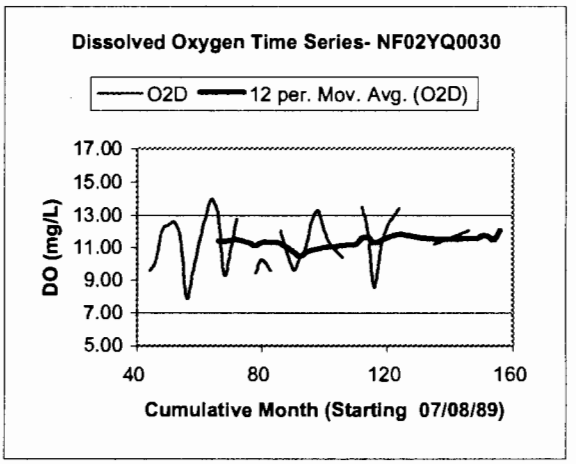

Lead Time Series- NF02YQ0006
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

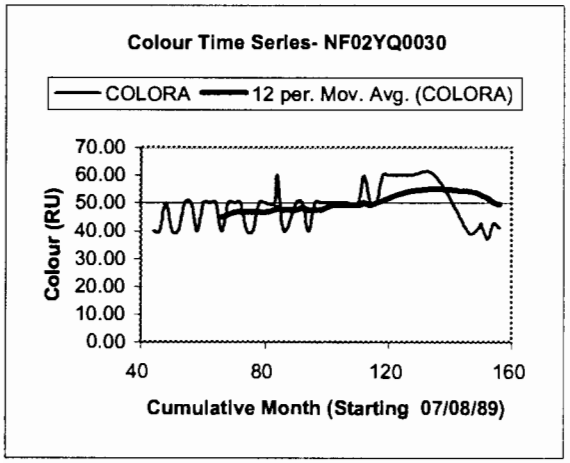

Vanadium Time Series- NF02YQ0006
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

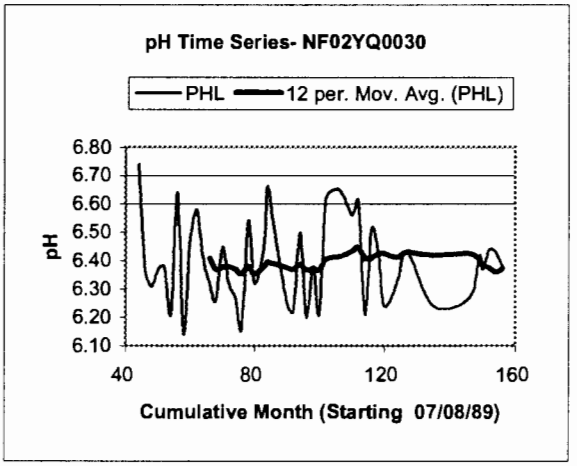

Zinc Time Series- NF02YQ0006
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 12/8/86)

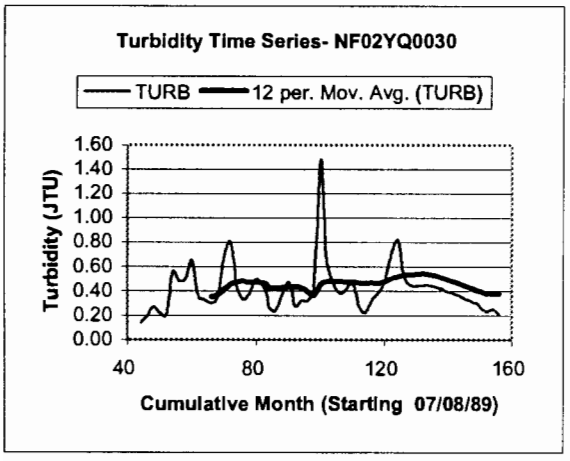
Time Series Plots of Gander River (@ Appleton)- NF02YQ0030

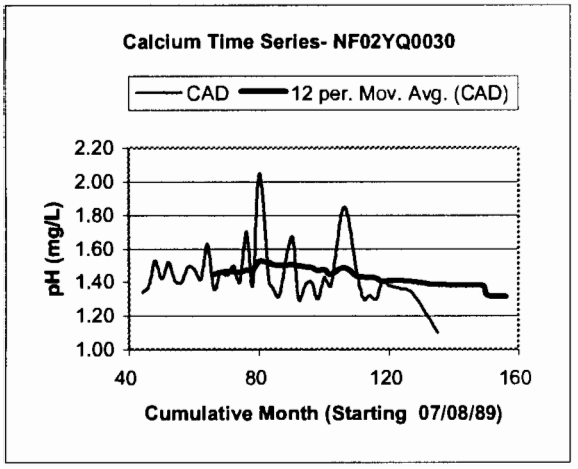


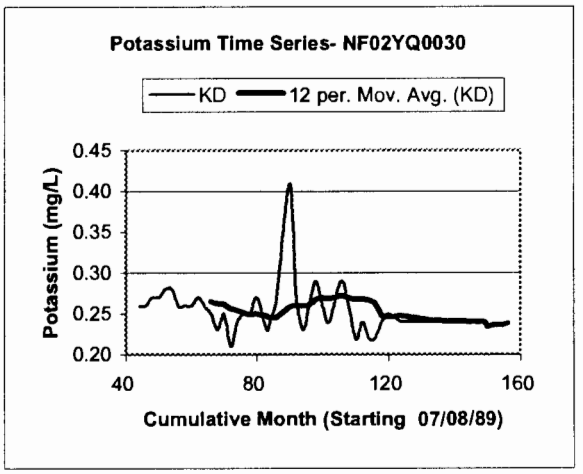


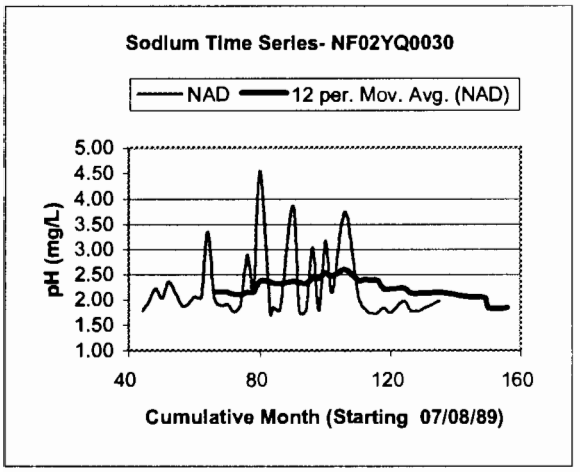


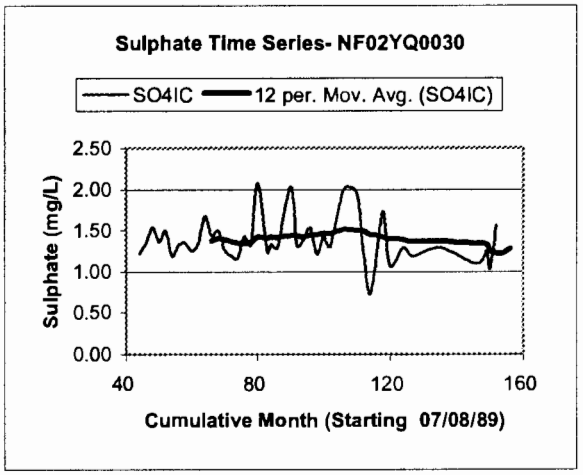


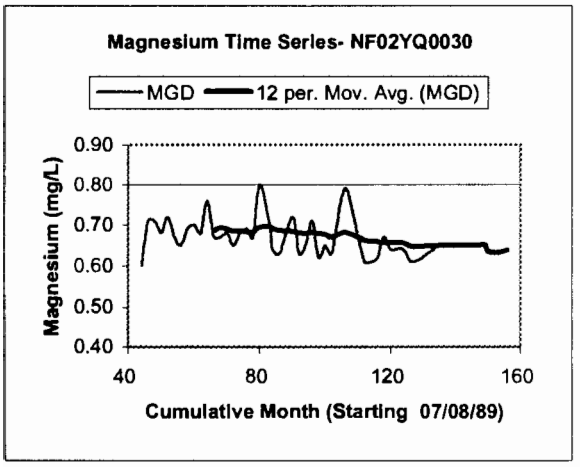


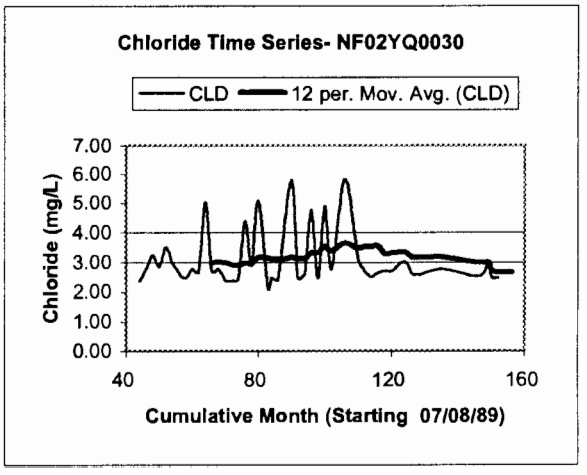

Calcium Time Series- NF02YQ0030
CAD
12 per. Mov. Avg. (CAD)
pH (mg/L)
2.20
2.00
1.80
1.60
1.40
1.20
1.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

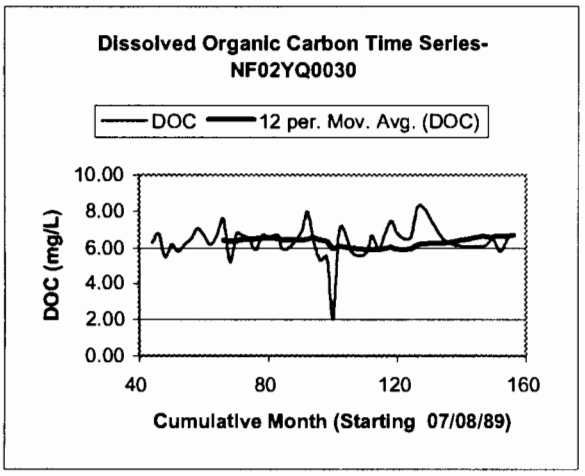

Potassium Time Series- NF02YQ0030
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.45
0.40
0.35
0.30
0.25
0.20
40
80
120
160
Cumulative Month (Starting 07/08/89)

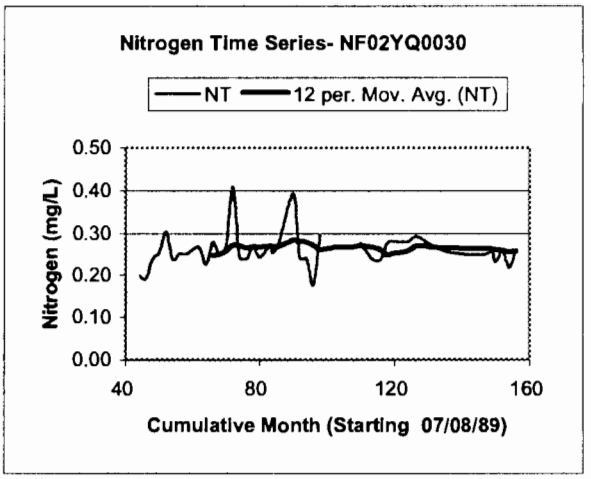

Sodium Time Series- NF02YQ0030
NAD
12 per. Mov. Avg. (NAD)
pH (mg/L)
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

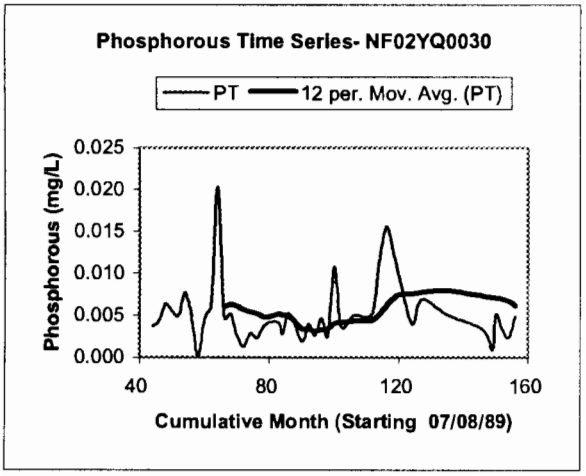

Sulphate Time Series- NF02YQ0030
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

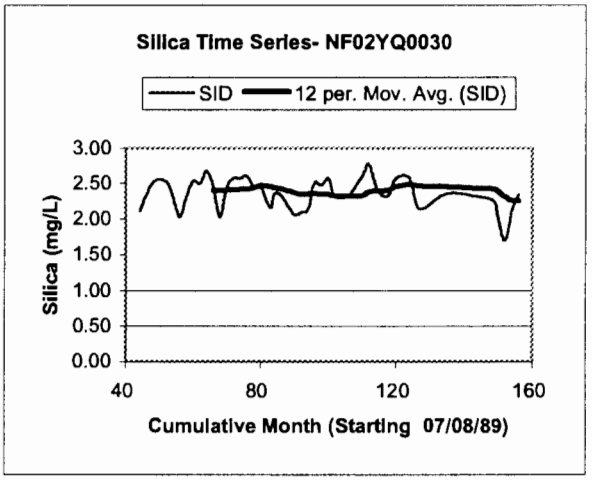

Magnesium Time Series- NF02YQ0030
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.90
0.80
0.70
0.60
0.50
0.40
40
80
120
160
Cumulative Month (Starting 07/08/89)

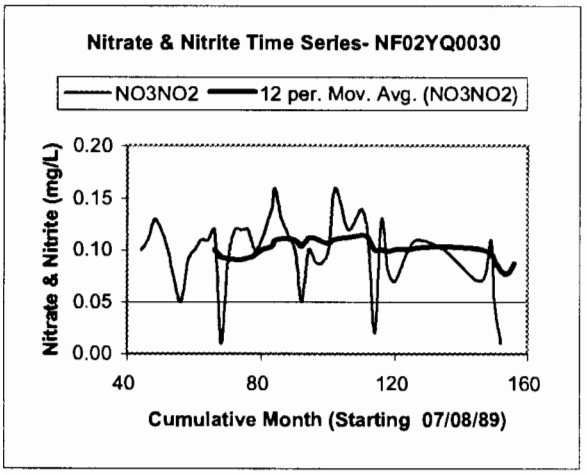

Chloride Time Series- NF02YQ0030
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

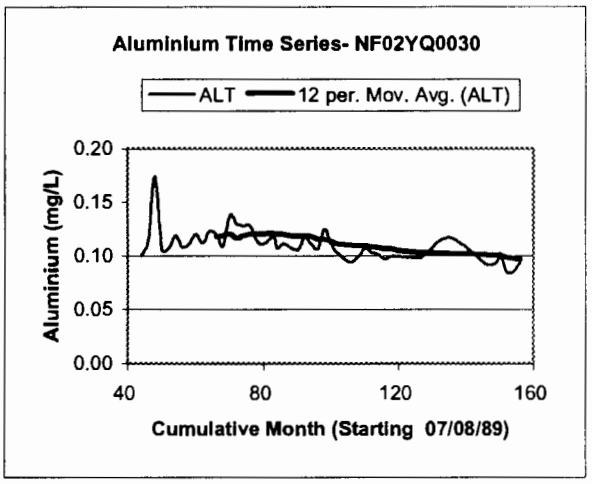

Dissolved Organic Carbon Time Series- NF02YQ0030
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

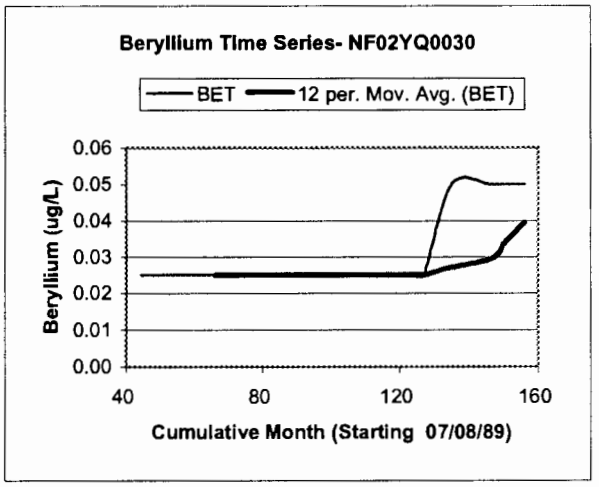

Nitrogen Time Series- NF02YQ0030
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

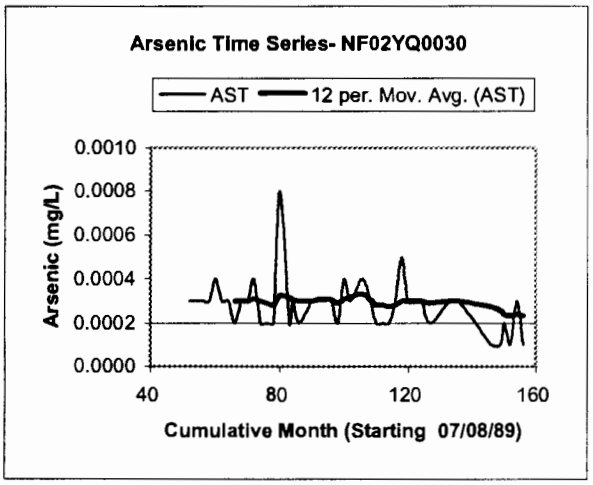

Phosphorous Time Series- NF02YQ0030
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
40
80
120
160
Cumulative Month (Starting 07/08/89)

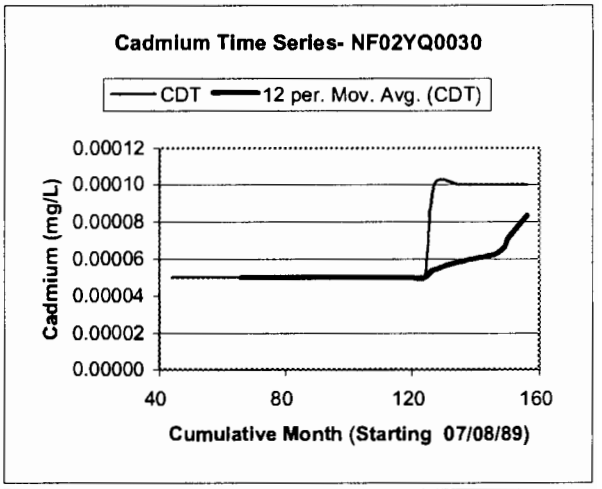

Silica Time Series- NF02YQ0030
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

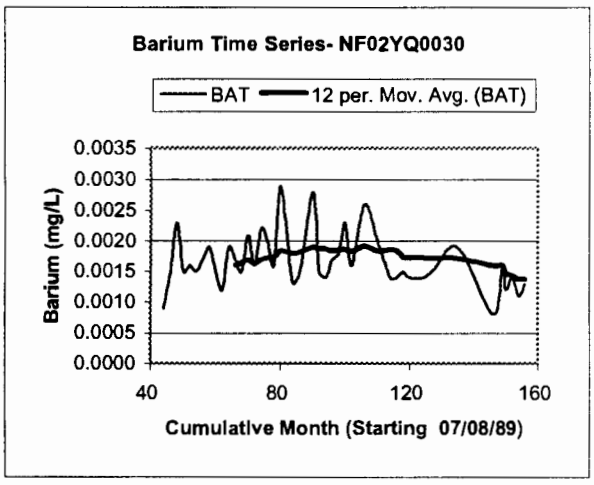

Nitrate & Nitrite Time Series- NF02YQ0030
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

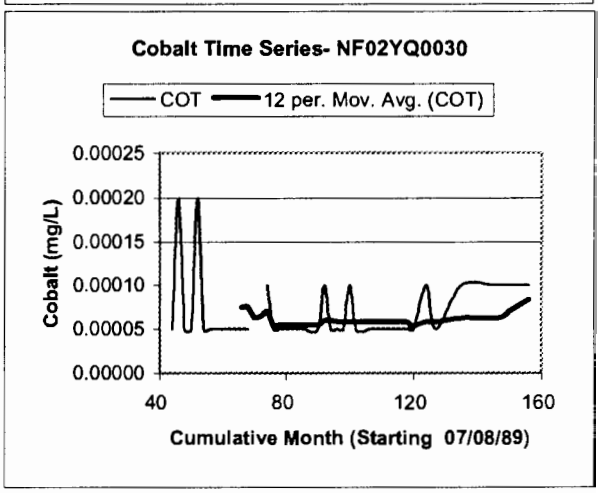

Aluminium Time Series- NF02YQ0030
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.20
0.15
0.10
0.05
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

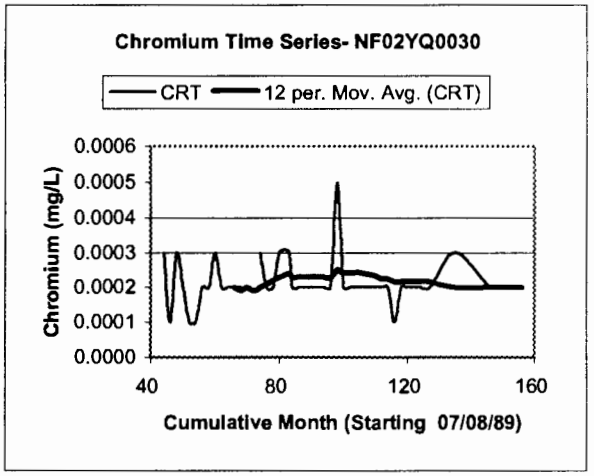

Beryllium Time Series- NF02YQ0030
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

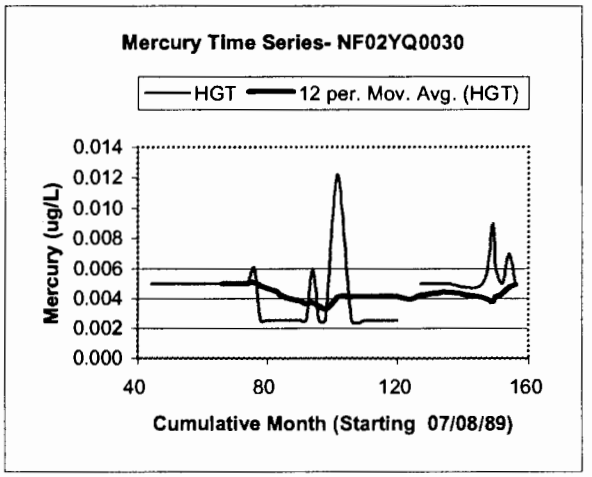

Arsenic Time Series- NF02YQ0030
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

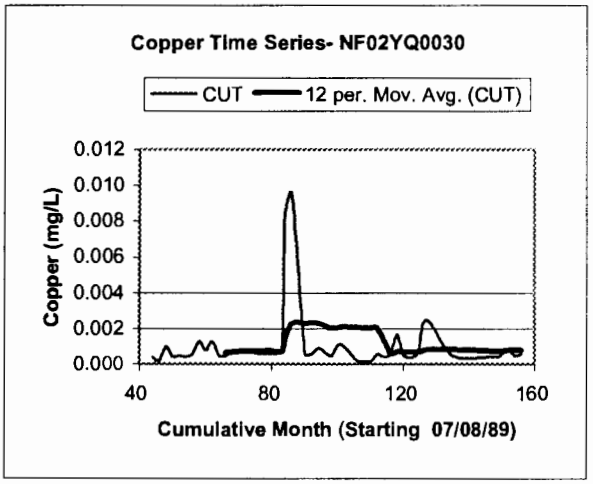

Cadmium Time Series- NF02YQ0030
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
40
80
120
160
Cumulative Month (Starting 07/08/89)

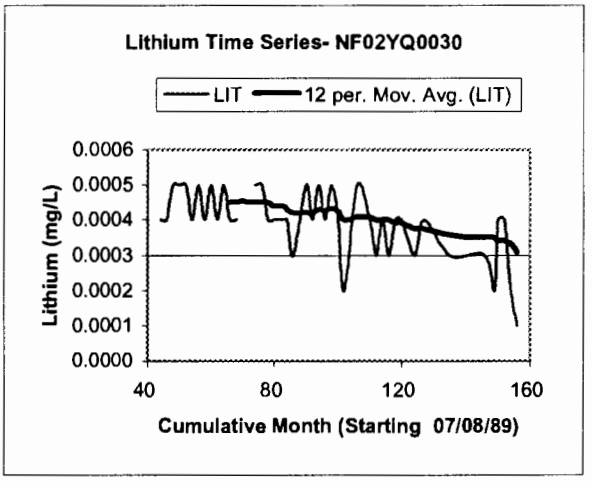

Barium Time Series- NF02YQ0030
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

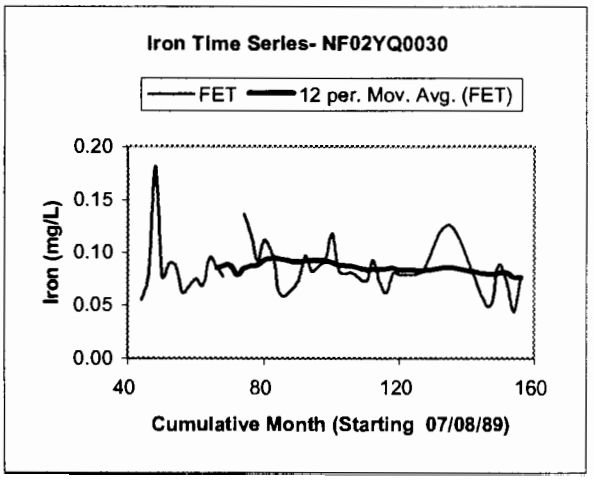

Cobalt Time Series- NF02YQ0030
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 07/08/89)

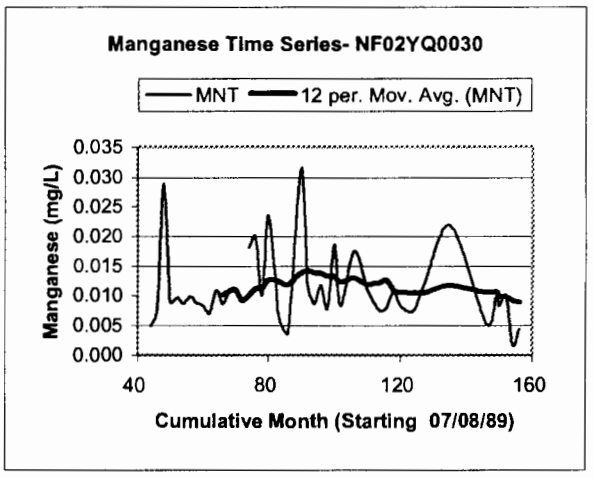

Chromium Time Series- NF02YQ0030
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

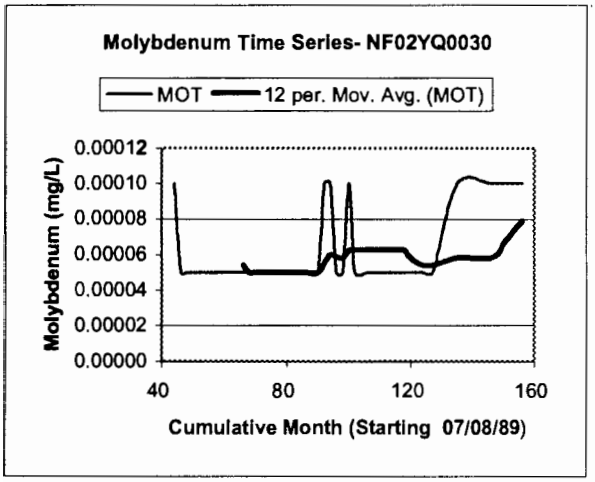

Mercury Time Series- NF02YQ0030
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
80
120
160
Cumulative Month (Starting 07/08/89)

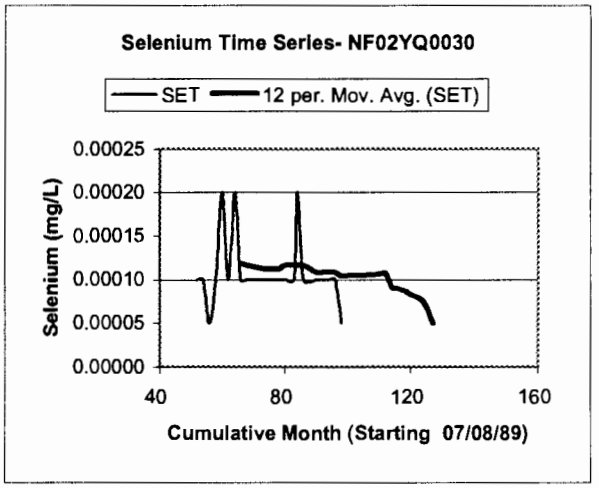

Copper Time Series- NF02YQ0030
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
80
120
160
Cumulative Month (Starting 07/08/89)

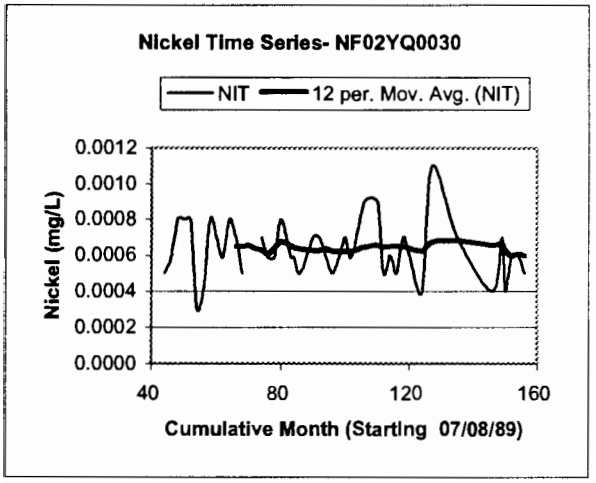

Lithium Time Series- NF02YQ0030
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

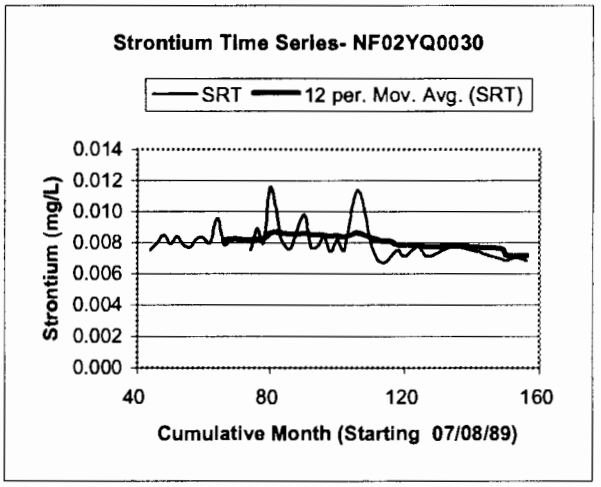

Iron Time Series- NF02YQ0030
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.20
0.15
0.10
0.05
0.00
40
80
120
160
Cumulative Month (Starting 07/08/89)

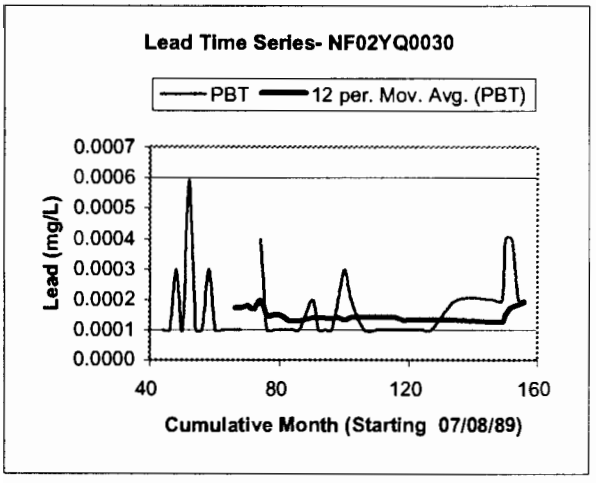

Manganese Time Series- NF02YQ0030
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
80
120
160
Cumulative Month (Starting 07/08/89)

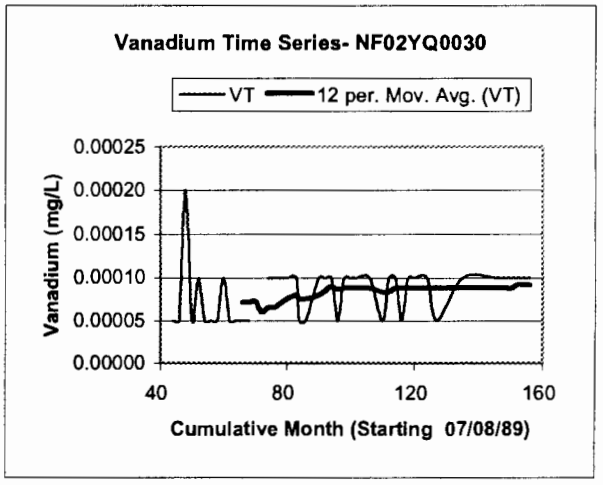

Molybdenum Time Series- NF02YQ0030
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
40
80
120
160
Cumulative Month (Starting 07/08/89)

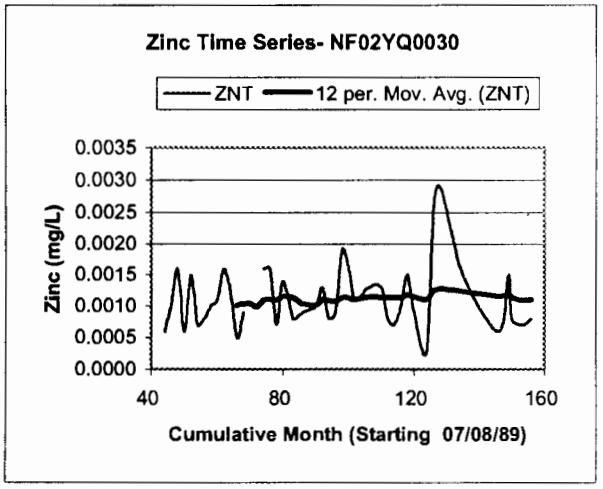

Selenium Time Series- NF02YQ0030
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 07/08/89)


Nickel Time Series- NF02YQ0030
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

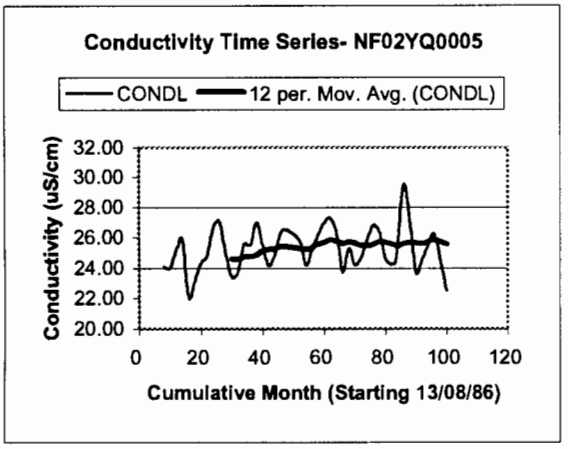

Strontium Time Series- NF02YQ0030
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
80
120
160
Cumulative Month (Starting 07/08/89)

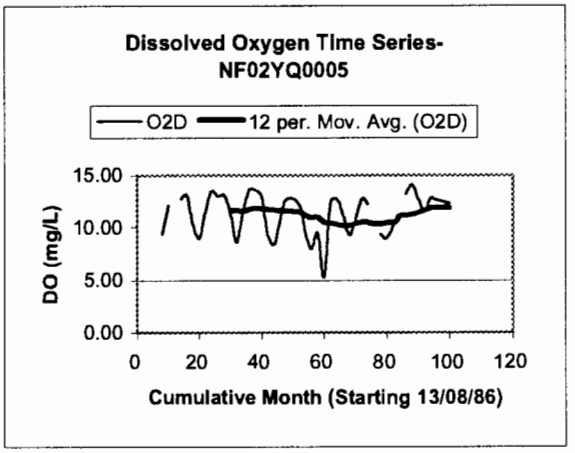

Lead Time Series- NF02YQ0030
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

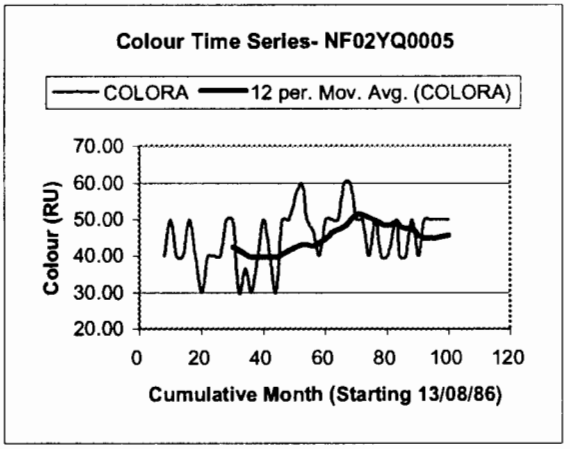

Vanadium Time Series- NF02YQ0030
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 07/08/89)

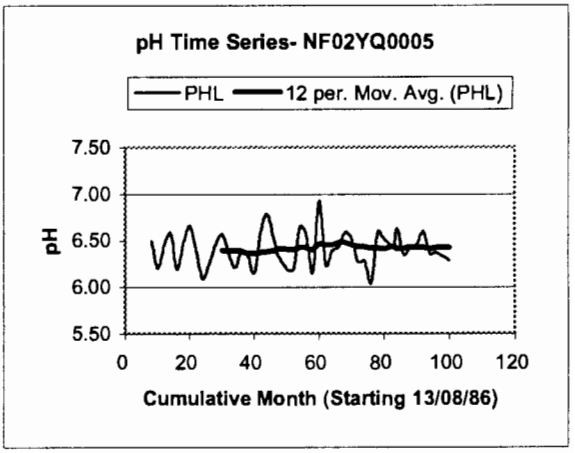

Zinc Time Series- NF02YQ0030
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
80
120
160
Cumulative Month (Starting 07/08/89)

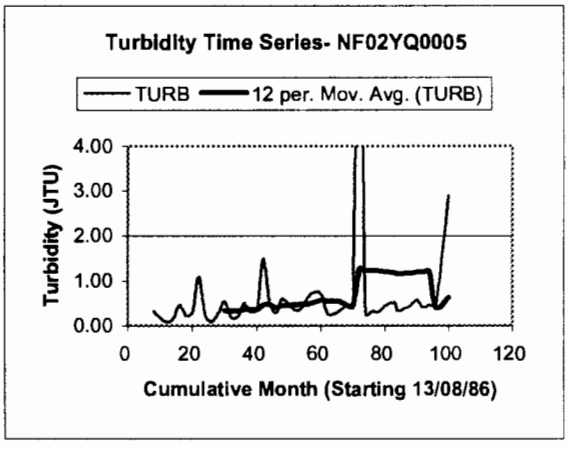
Time Series Plots of Gander River- NF02YQ0005

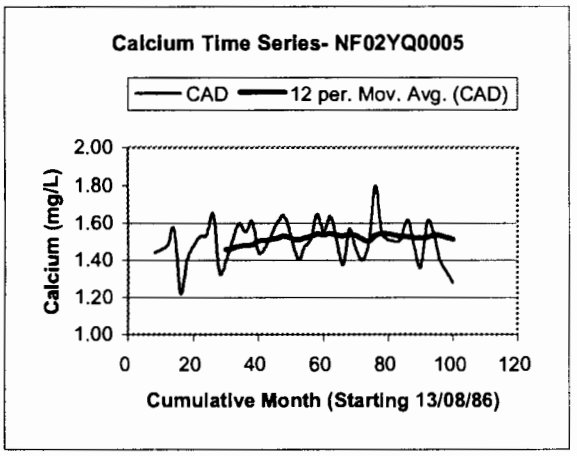


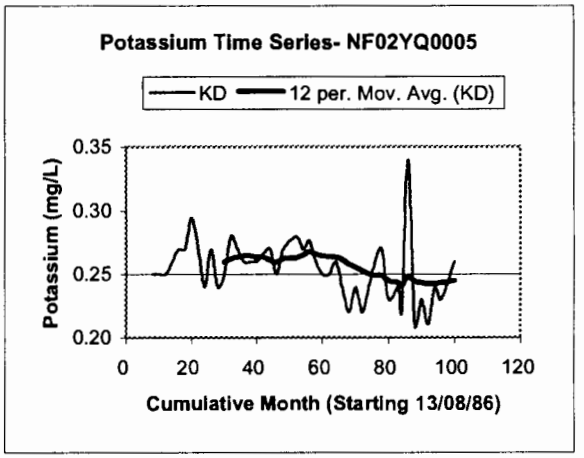


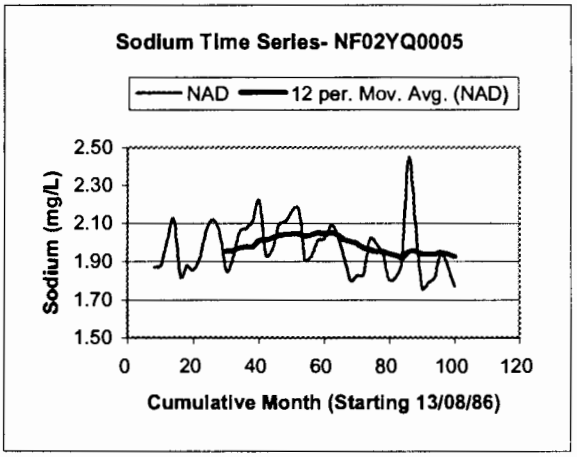


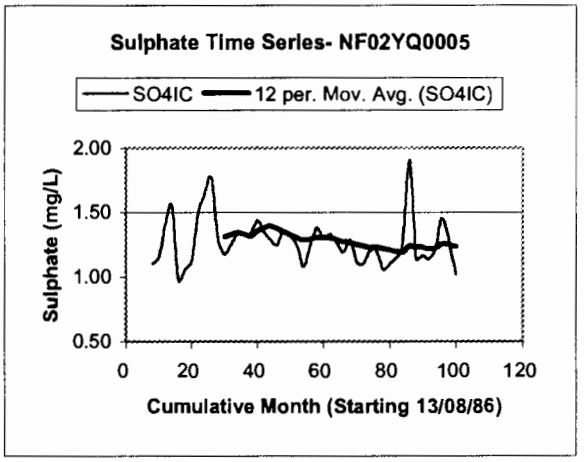


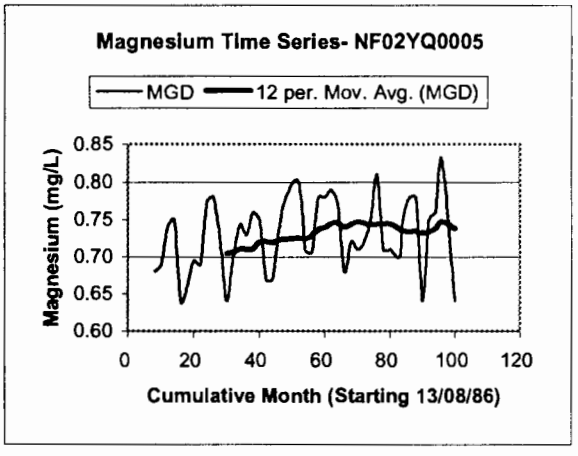


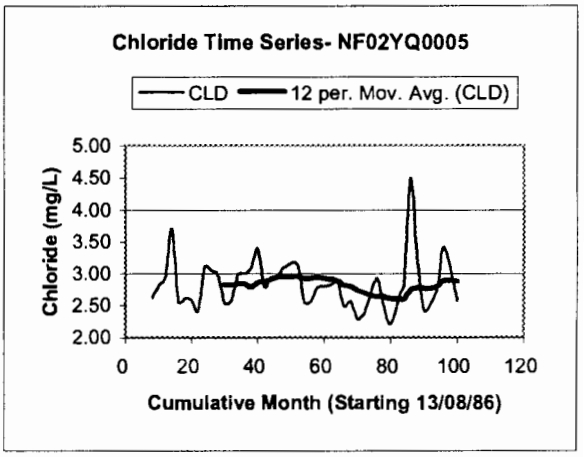

Calcium Time Series- NF02YQ0005
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.80
1.60
1.40
1.20
1.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

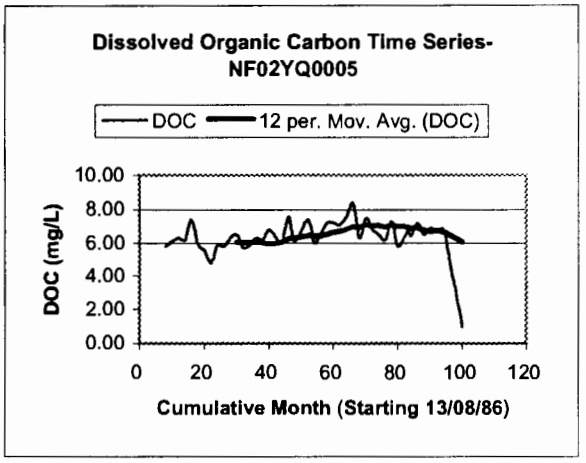

Potassium Time Series- NF02YQ0005
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

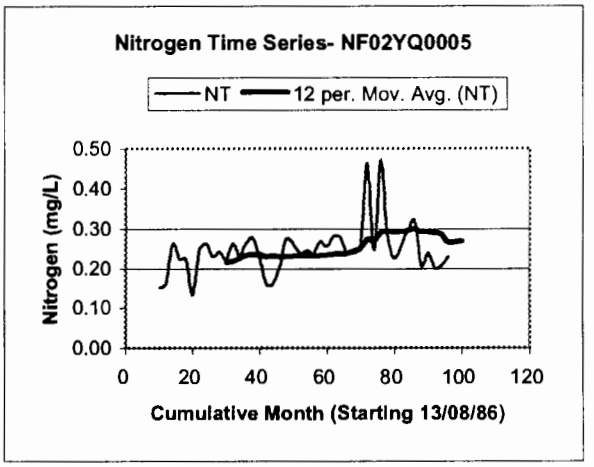

Sodium Time Series- NF02YQ0005
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
2.50
2.30
2.10
1.90
1.70
1.50
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

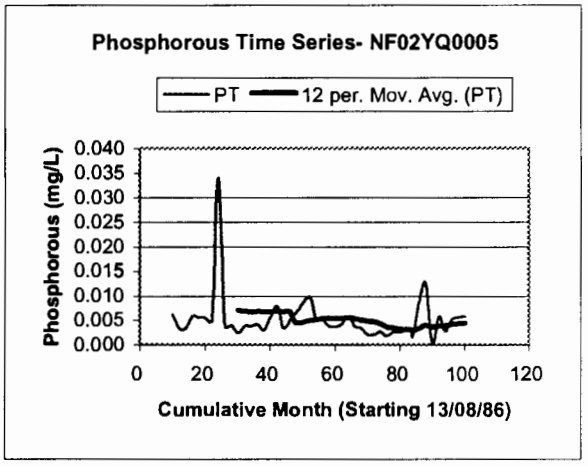

Sulphate Time Series- NF02YQ0005
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.00
1.50
1.00
0.50
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

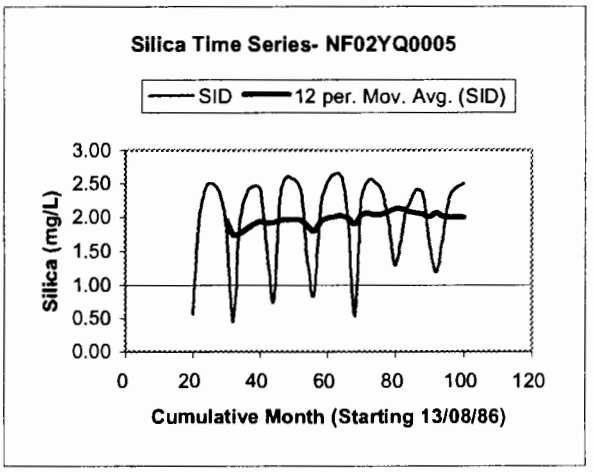

Magnesium Time Series- NF02YQ0005
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.85
0.80
0.75
0.70
0.65
0.60
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

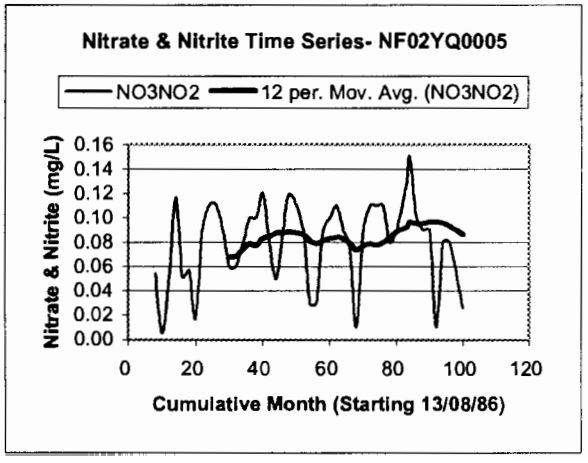

Chloride Time Series- NF02YQ0005
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.50
4.00
3.50
3.00
2.50
2.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

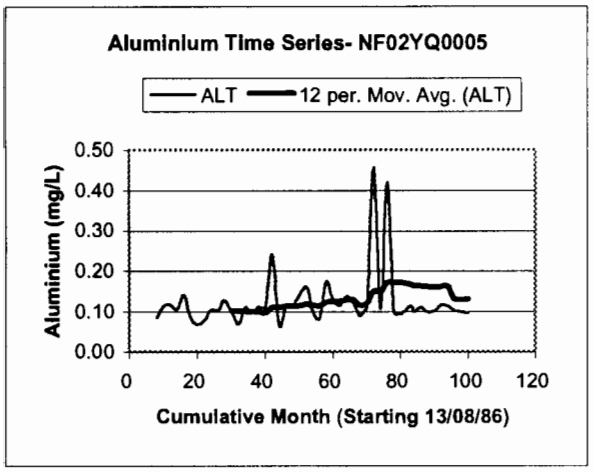

Dissolved Organic Carbon Time Series- NF02YQ0005
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

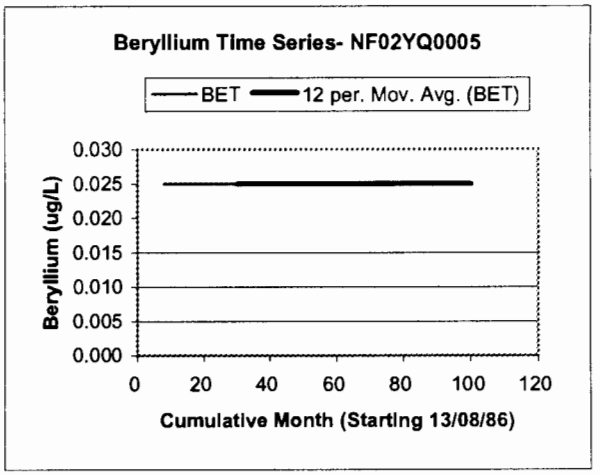

Nitrogen Time Series- NF02YQ0005
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

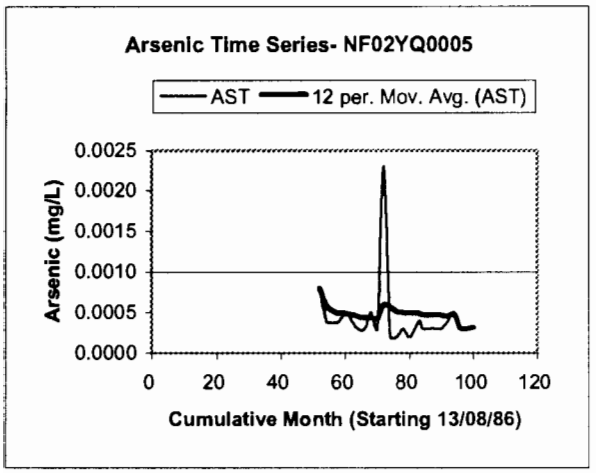

Phosphorous Time Series- NF02YQ0005
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

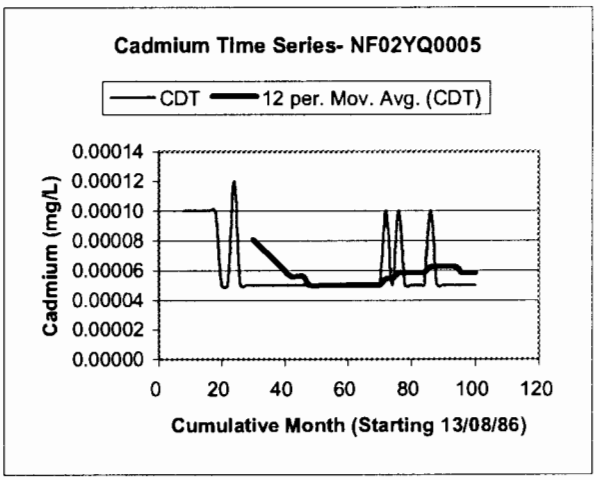

Silica Time Series- NF02YQ0005
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

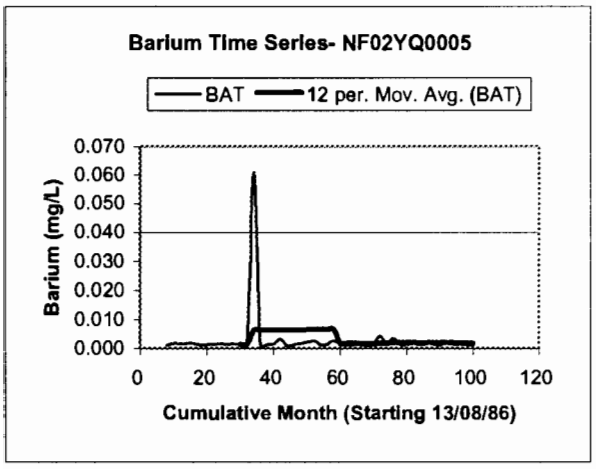

Nitrate & Nitrite Time Series- NF02YQ0005
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

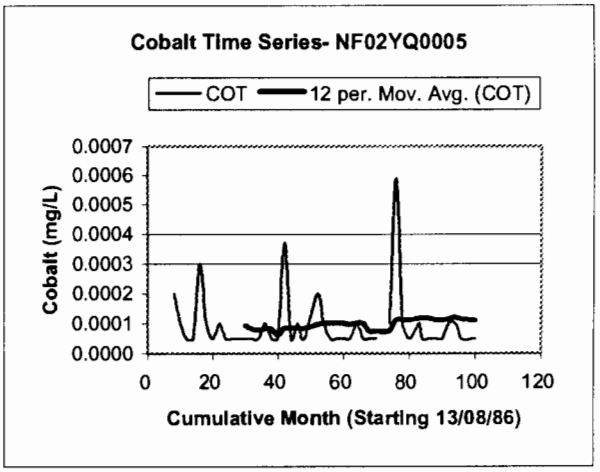

Aluminium Time Series- NF02YQ0005
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

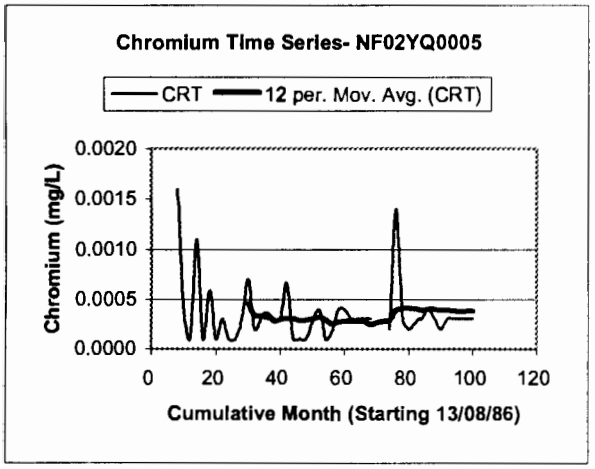

Beryllium Time Series- NF02YQ0005
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

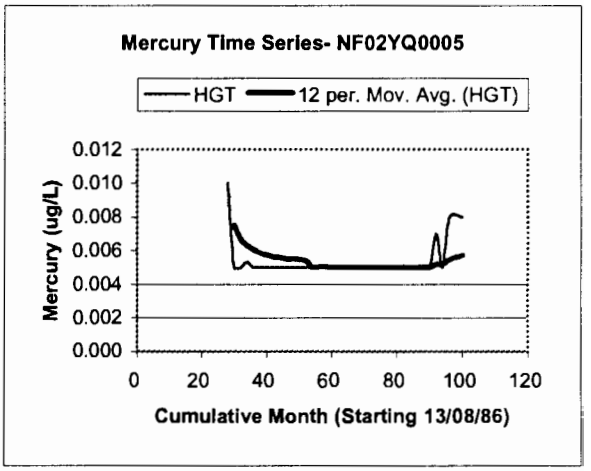

Arsenic Time Series- NF02YQ0005
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

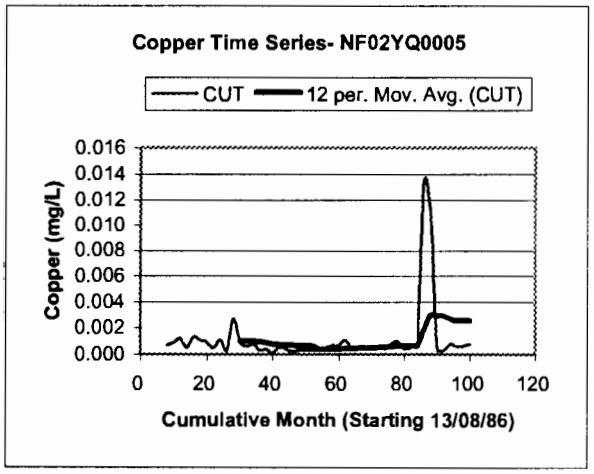

Cadmium Time Series- NF02YQ0005
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

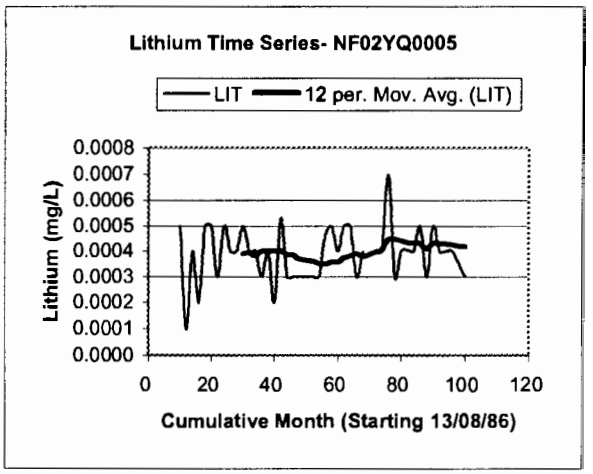

Barium Time Series- NF02YQ0005
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

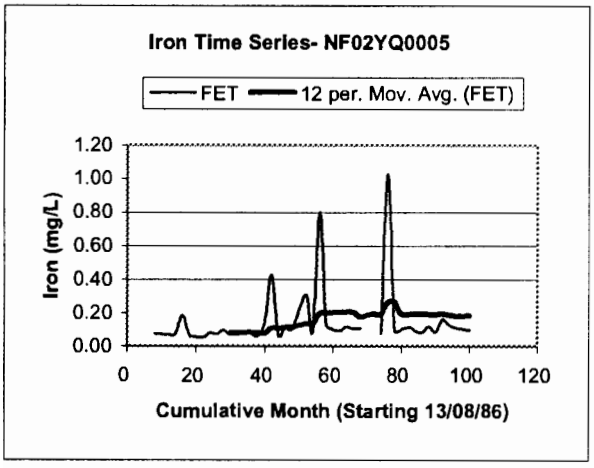

Cobalt Time Series- NF02YQ0005
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

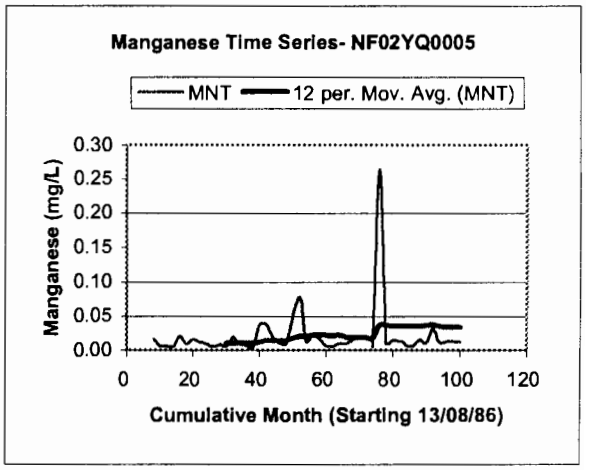

Chromium Time Series- NF02YQ0005
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

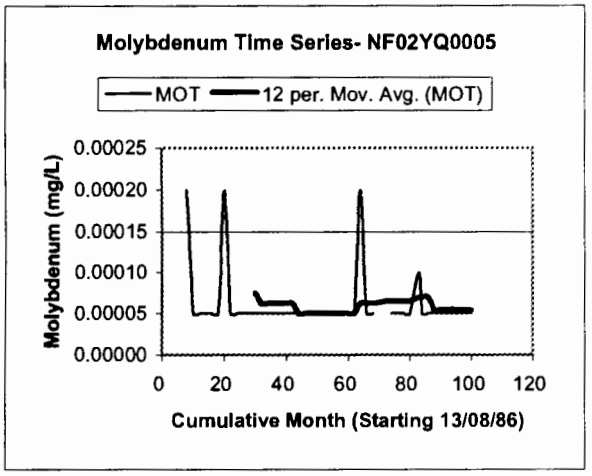

Mercury Time Series- NF02YQ0005
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

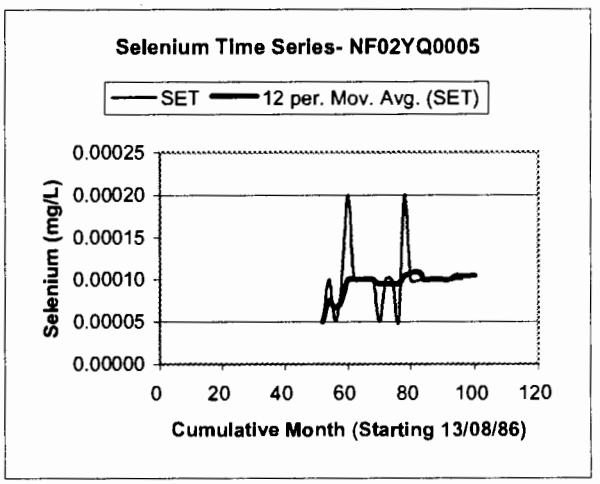

Copper Time Series- NF02YQ0005
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

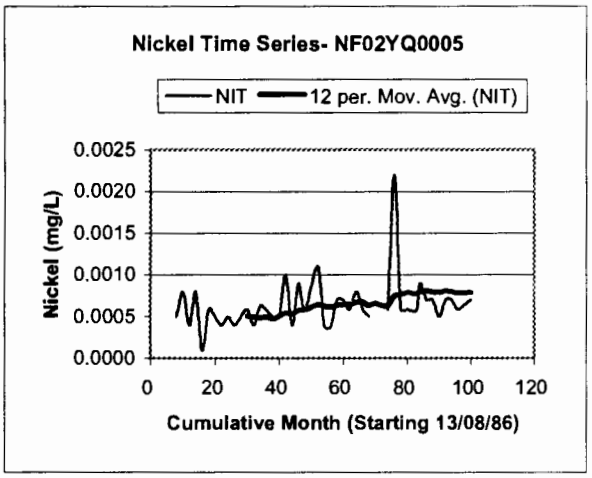

Lithium Time Series- NF02YQ0005
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

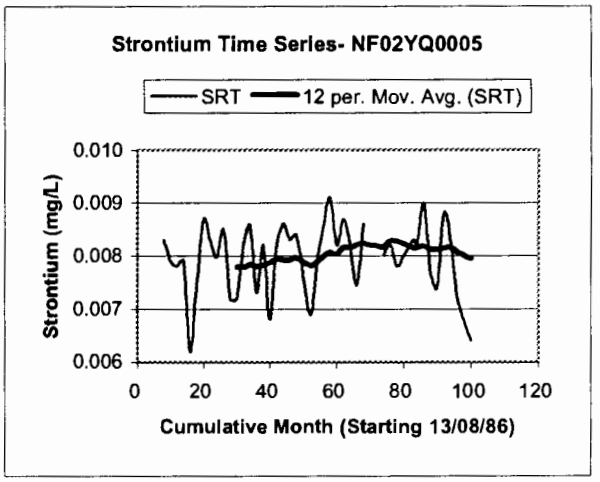

Iron Time Series- NF02YQ0005
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

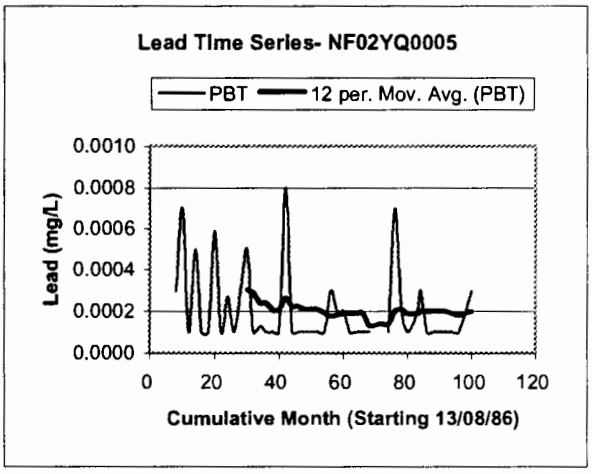

Manganese Time Series- NF02YQ0005
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

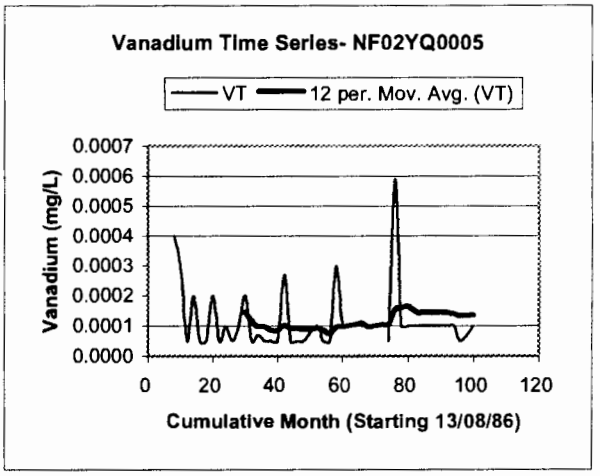

Molybdenum Time Series- NF02YQ0005
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

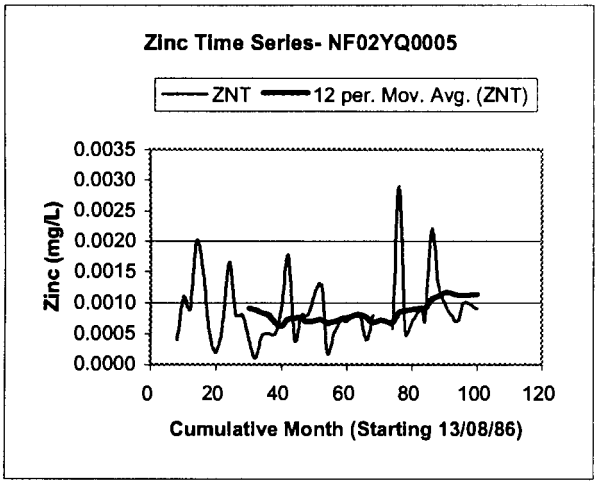

Selenium Time Series- NF02YQ0005
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)


Nickel Time Series- NF02YQ0005
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

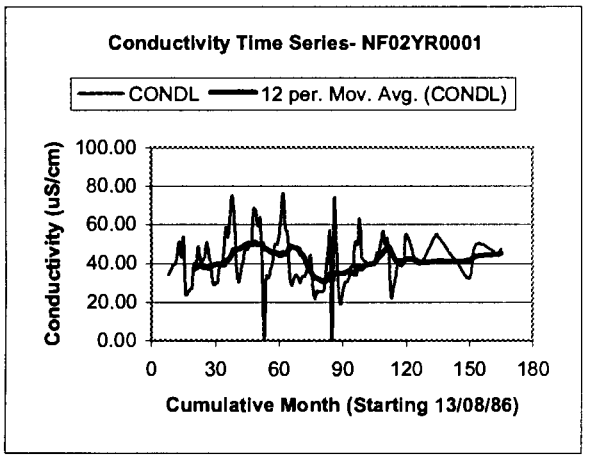

Strontium Time Series- NF02YQ0005
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.010
0.009
0.008
0.007
0.006
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

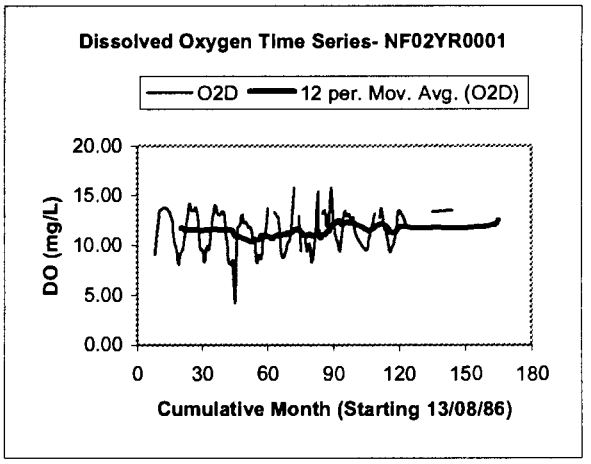

Lead Time Series- NF02YQ0005
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

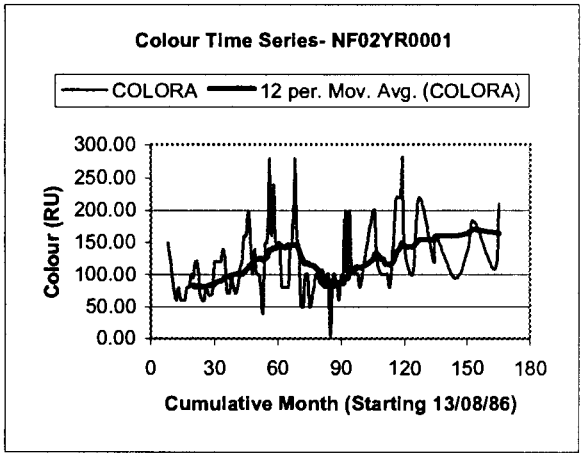

Vanadium Time Series- NF02YQ0005
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

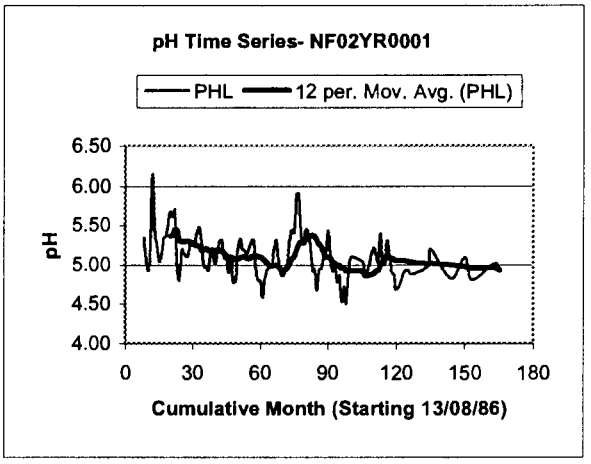

Zinc Time Series- NF02YQ0005
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

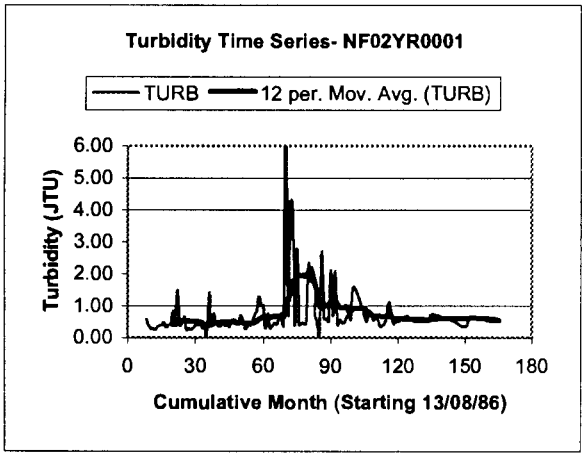
Time Series Plots of Pound Cove Brook- NF02YR0001

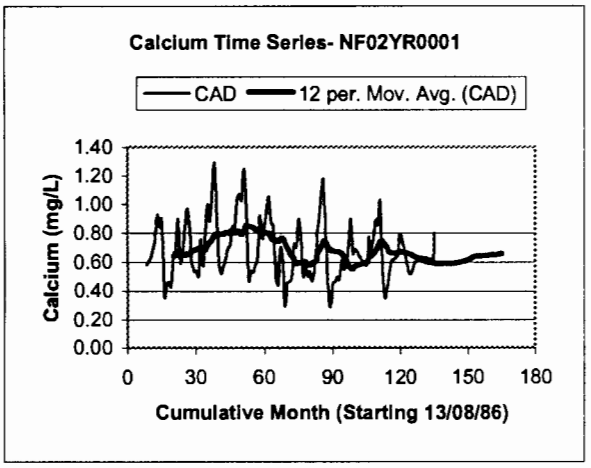


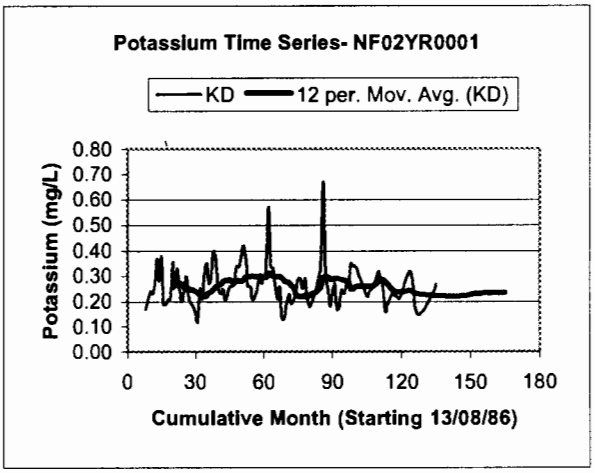


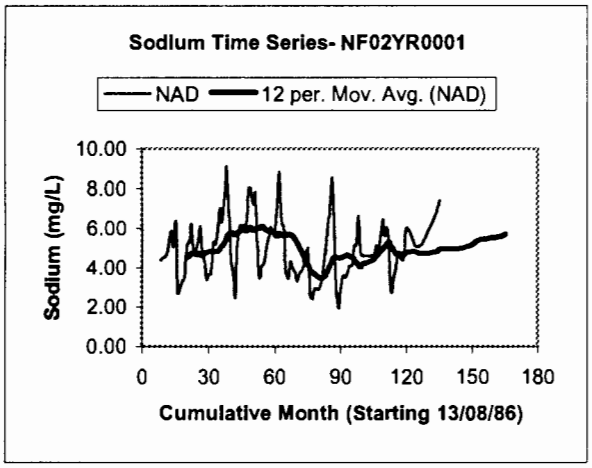


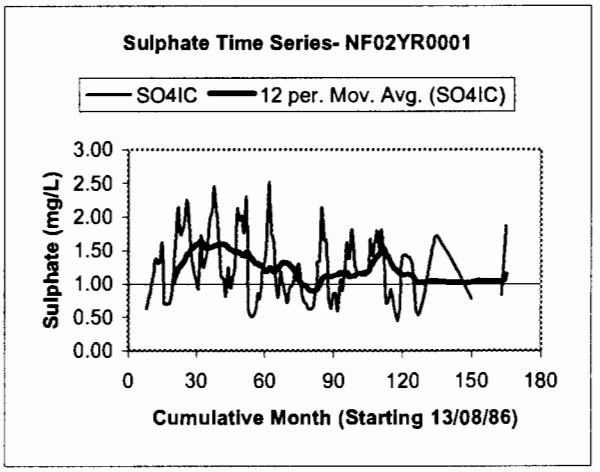


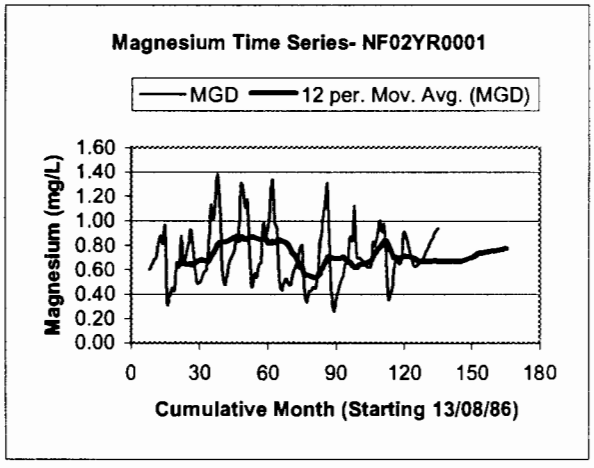


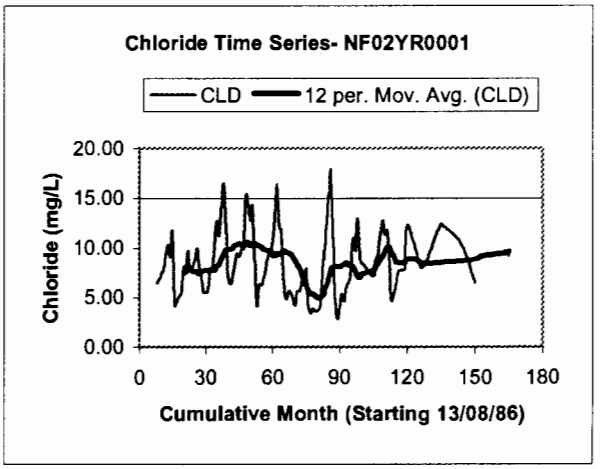

Calcium Time Series- NF02YR0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

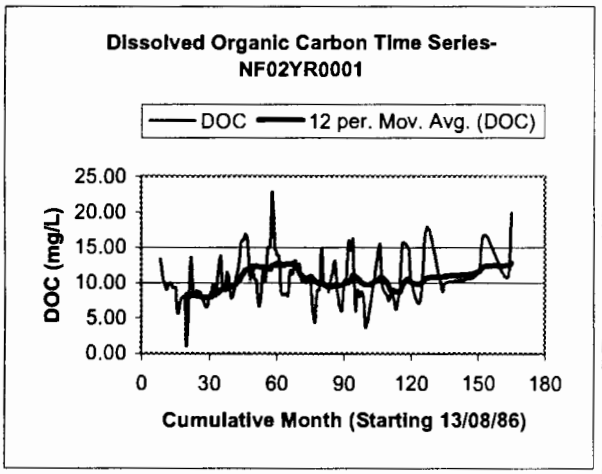

Potassium Time Series- NF02YR0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

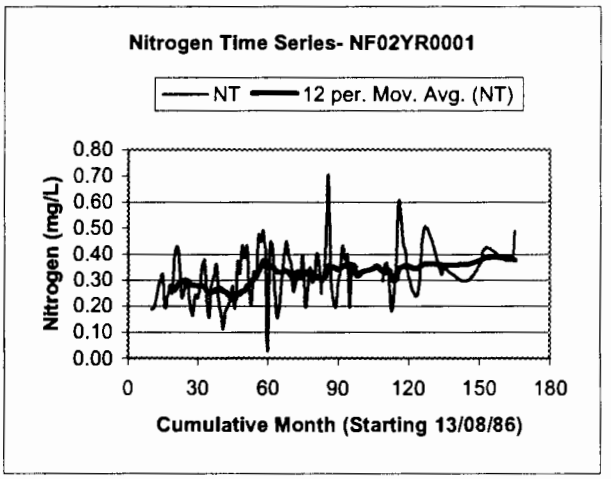

Sodium Time Series- NF02YR0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

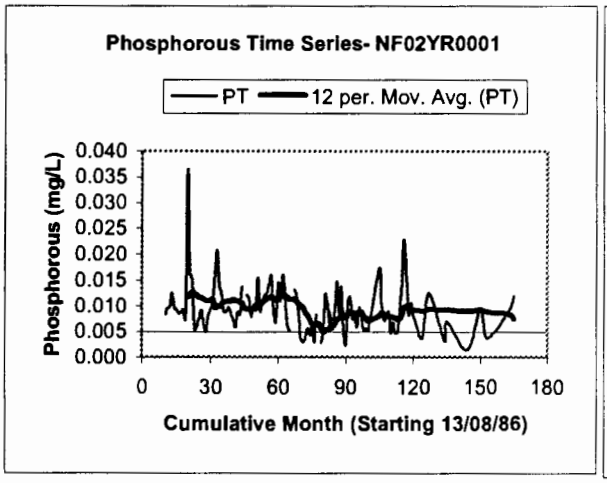

Sulphate Time Series- NF02YR0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

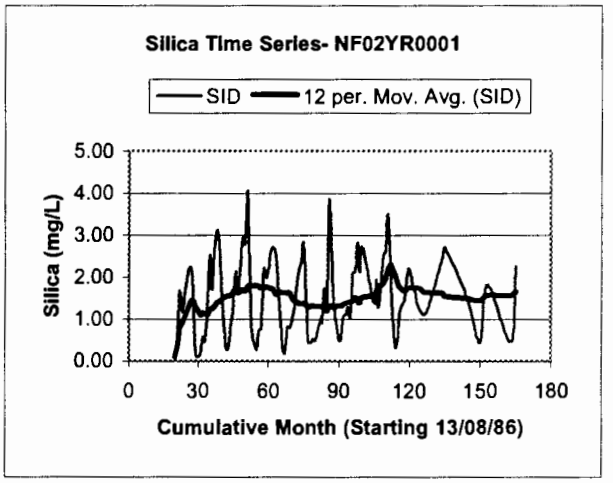

Magnesium Time Series- NF02YR0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

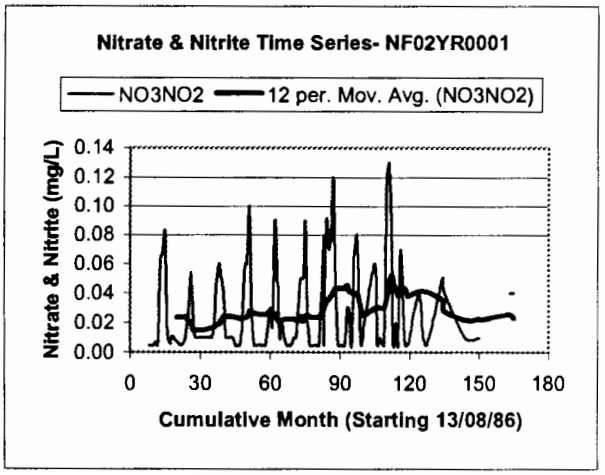

Chloride Time Series- NF02YR0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

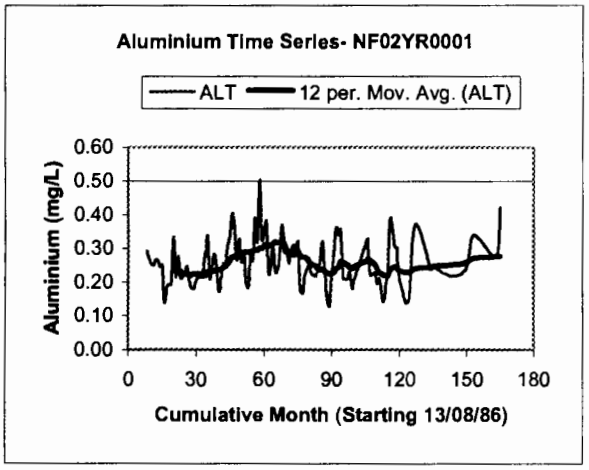

Dissolved Organic Carbon Time Series- NF02YR0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

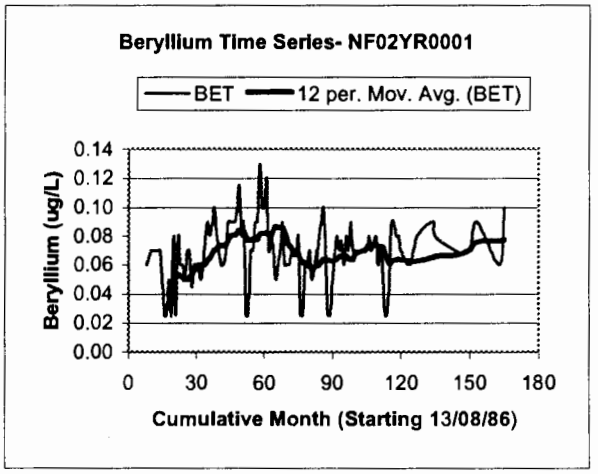

Nitrogen Time Series- NF02YR0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

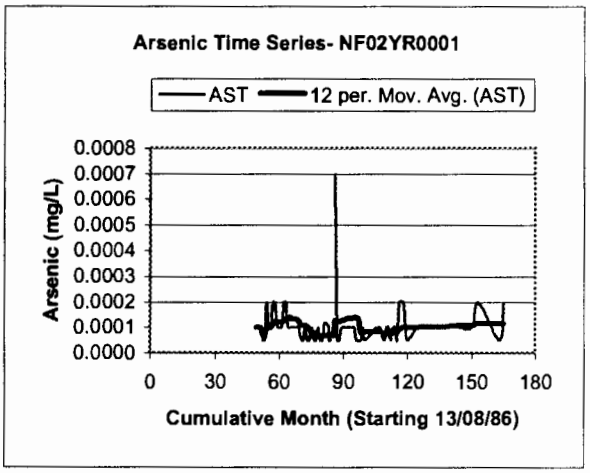

Phosphorous Time Series- NF02YR0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

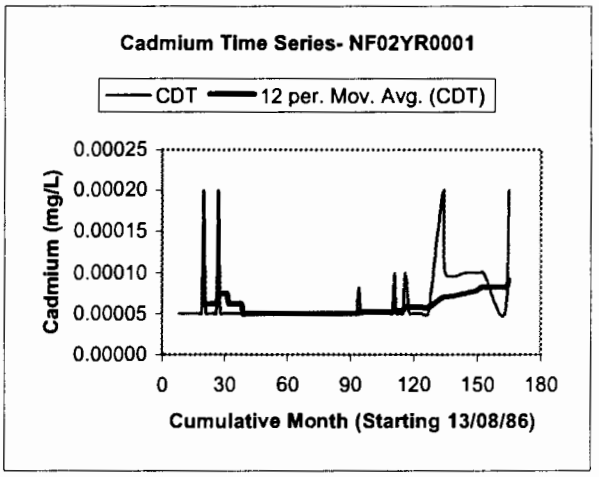

Silica Time Series- NF02YR0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

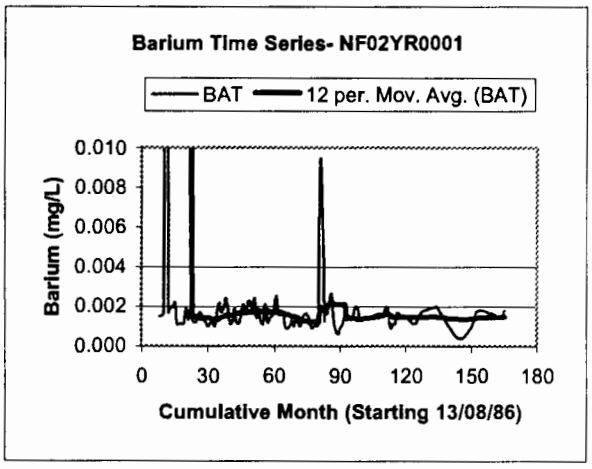

Nitrate & Nitrite Time Series- NF02YR0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

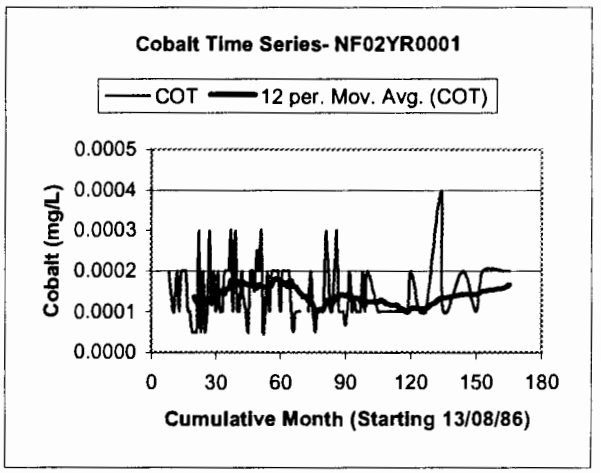

Aluminium Time Series- NF02YR0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

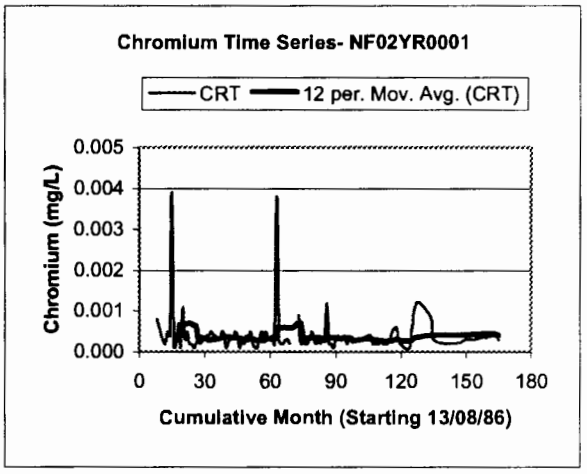

Beryllium Time Series- NF02YR0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

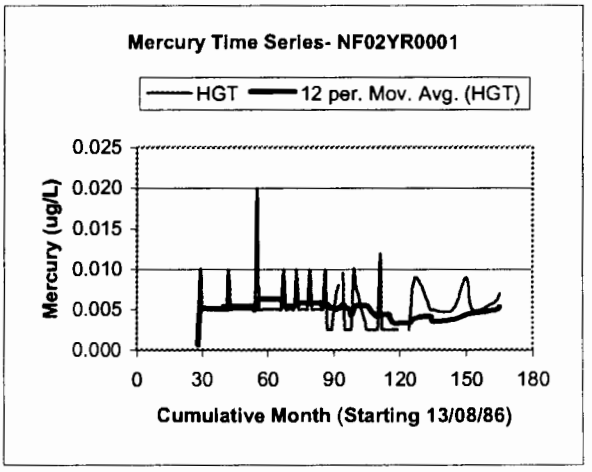

Arsenic Time Series- NF02YR0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

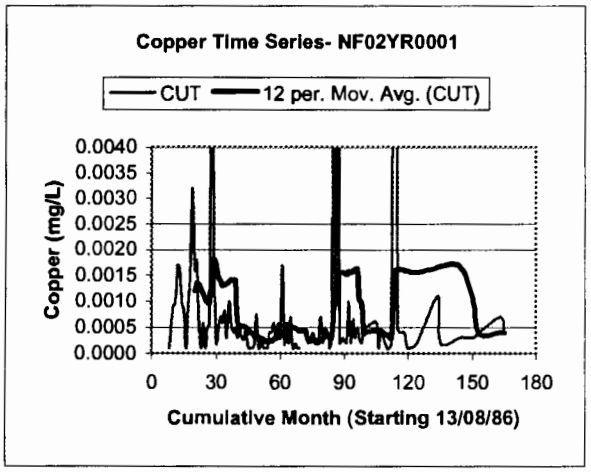

Cadmium Time Series- NF02YR0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

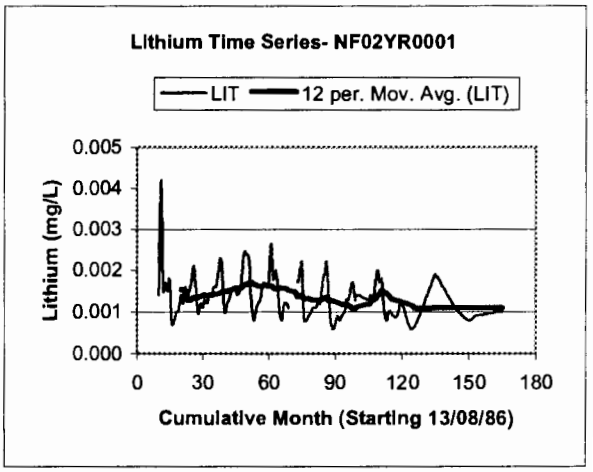

Barium Time Series- NF02YR0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

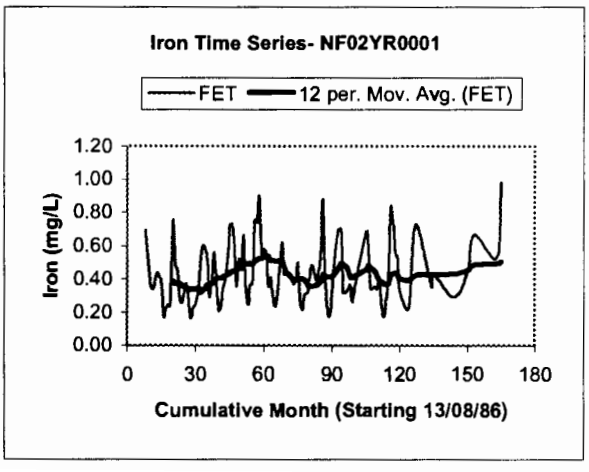

Cobalt Time Series- NF02YR0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

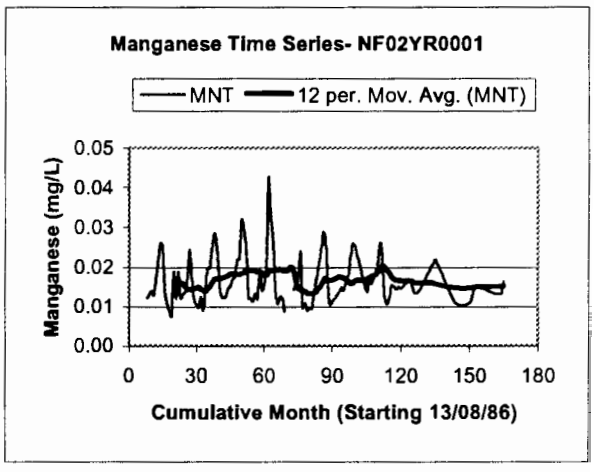

Chromium Time Series- NF02YR0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

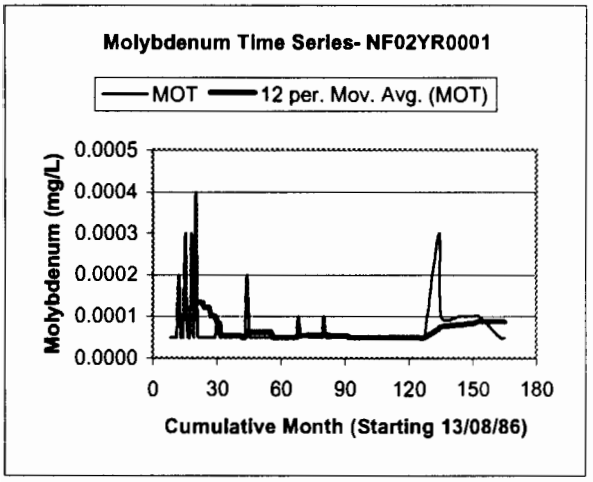

Mercury Time Series- NF02YR0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

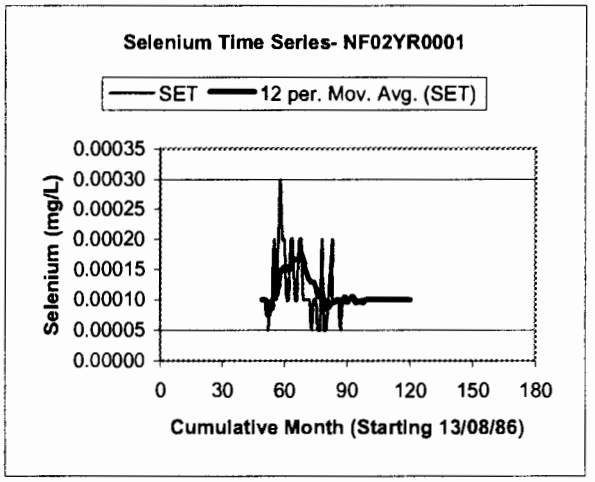

Copper Time Series- NF02YR0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

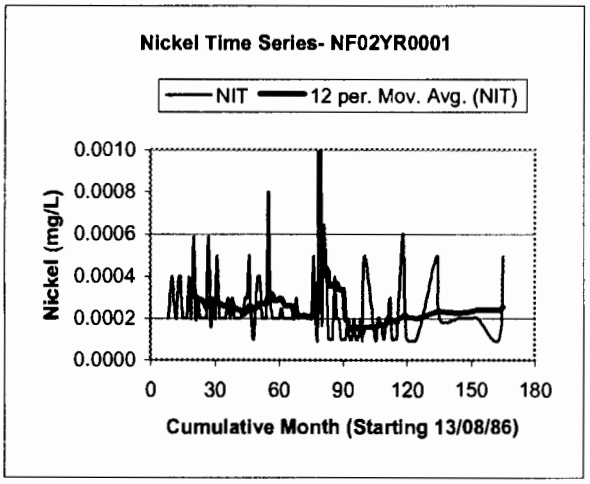

Lithium Time Series- NF02YR0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

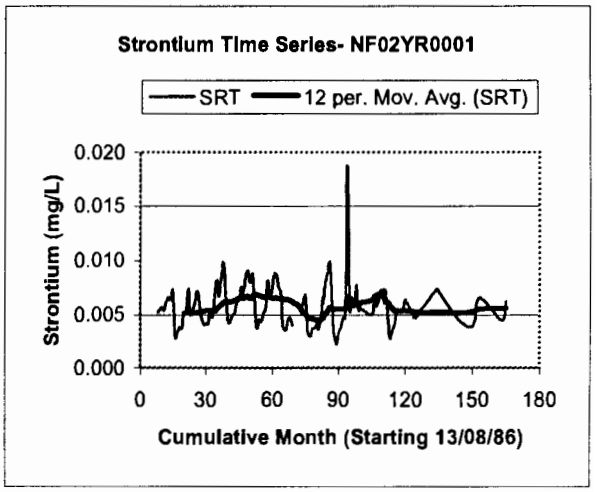

Iron Time Series- NF02YR0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

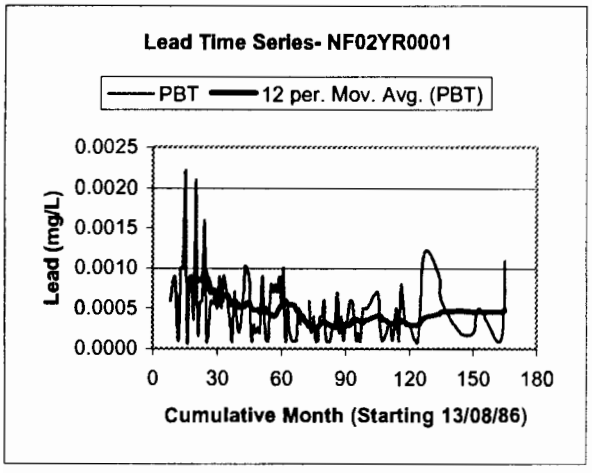

Manganese Time Series- NF02YR0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

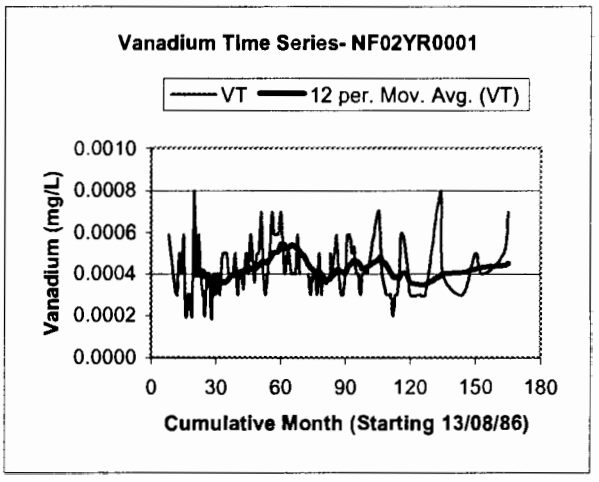

Molybdenum Time Series- NF02YR0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)

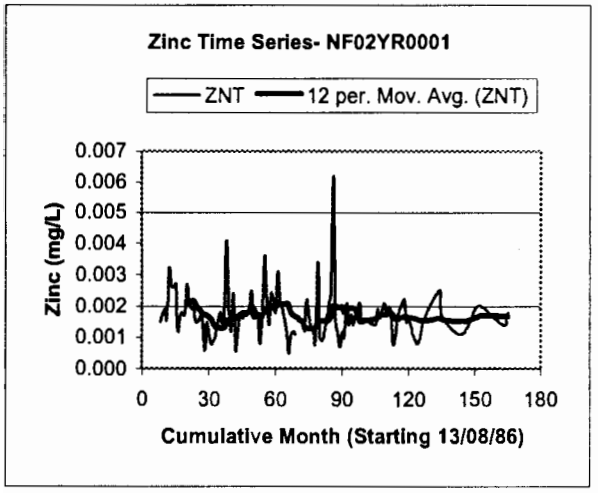

Selenium Time Series- NF02YR0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)


Nickel Time Series- NF02YR0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)

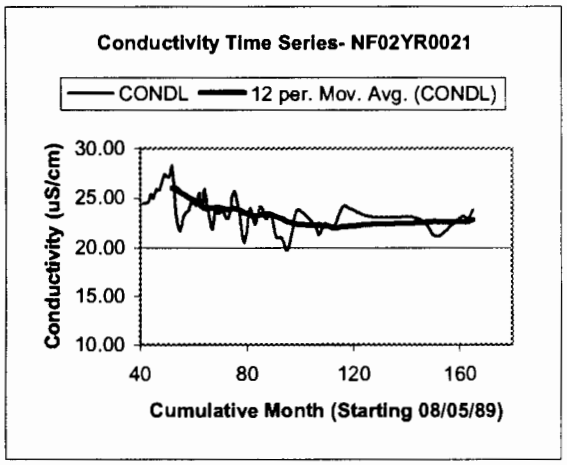

Strontium Time Series- NF02YR0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)

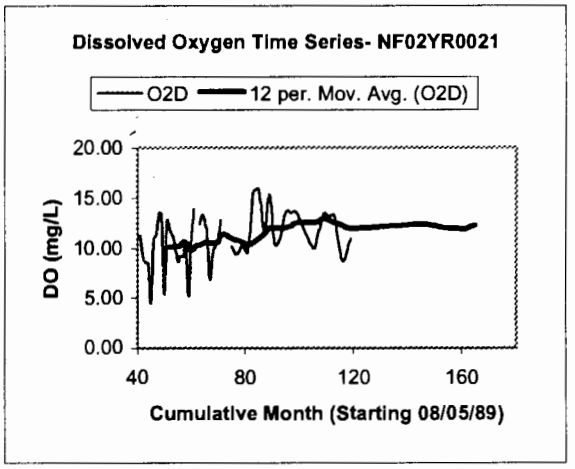

Lead Time Series- NF02YR0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)

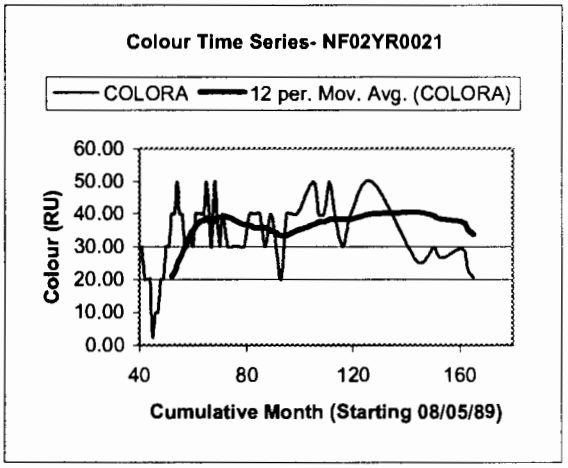

Vanadium Time Series- NF02YR0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 13/08/86)

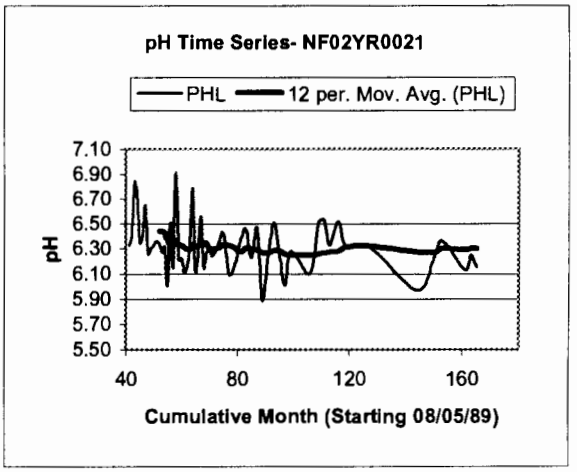

Zinc Time Series- NF02YR0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 13/08/86)

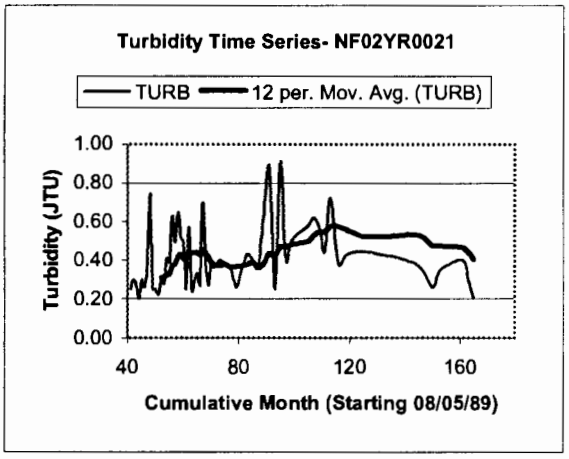
Time Series Plots of Middle Brook- NF02YR0021

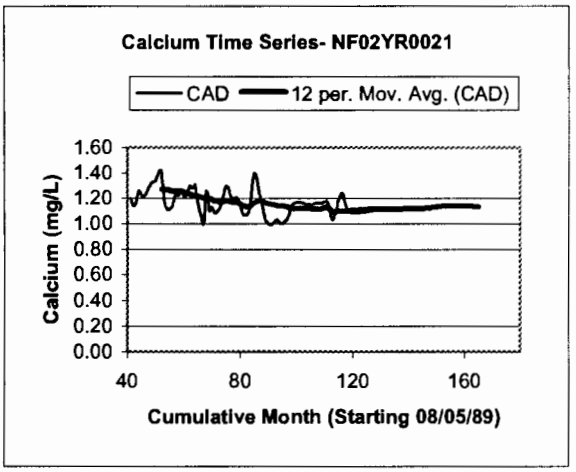


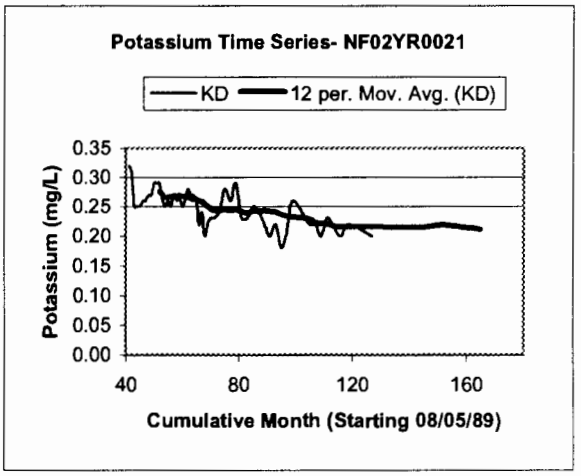


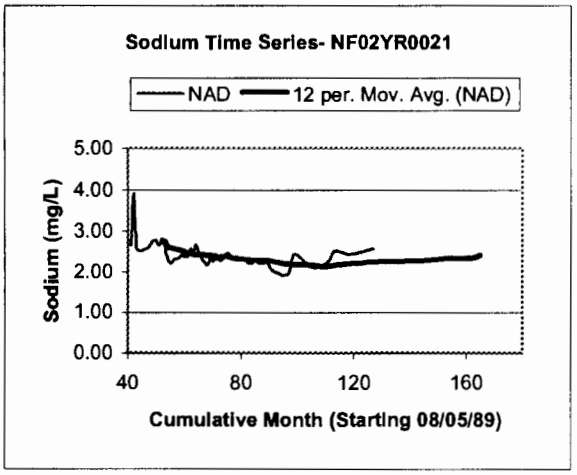


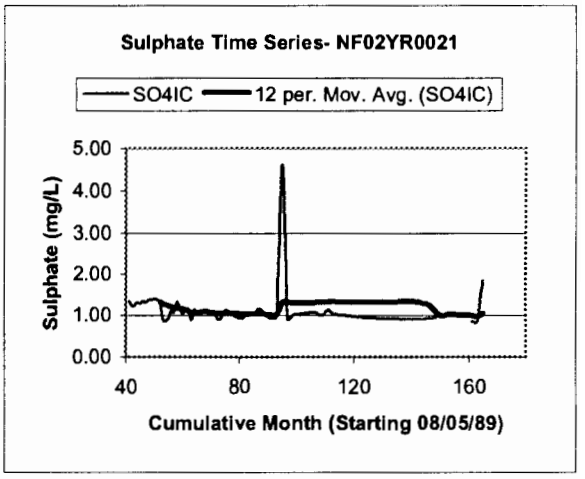


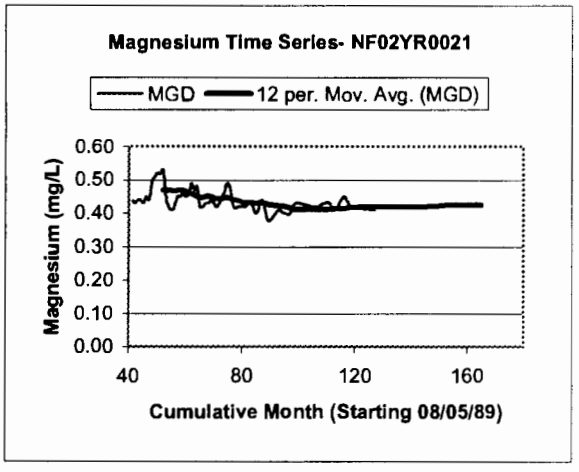


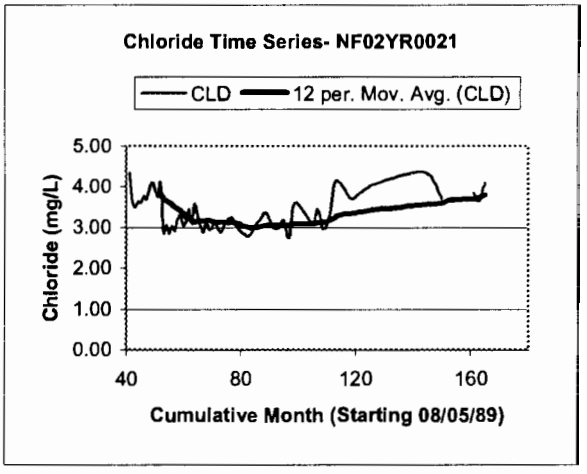

Calcium Time Series- NF02YR0021
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

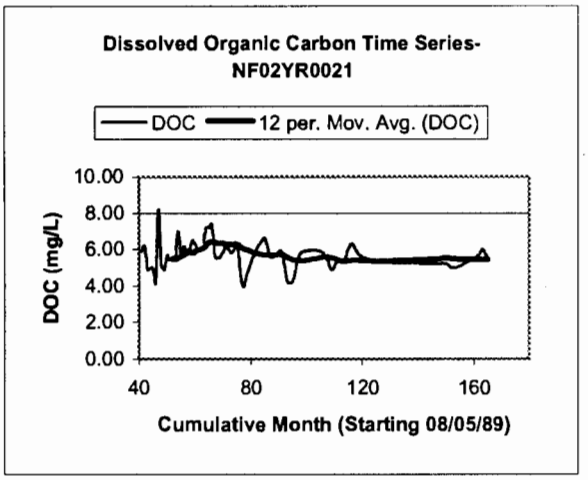

Potassium Time Series- NF02YR0021
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

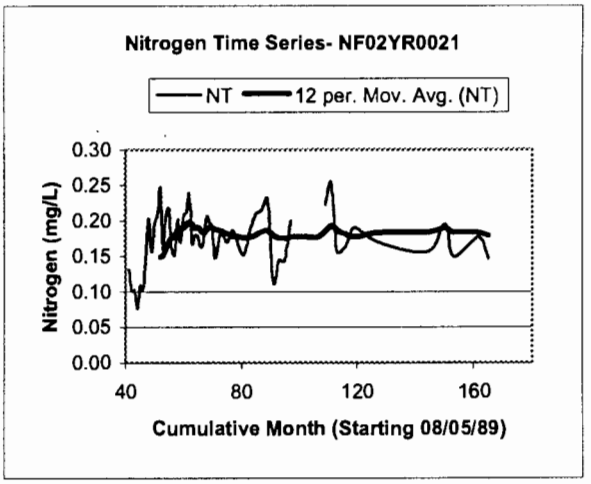

Sodium Time Series- NF02YR0021
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

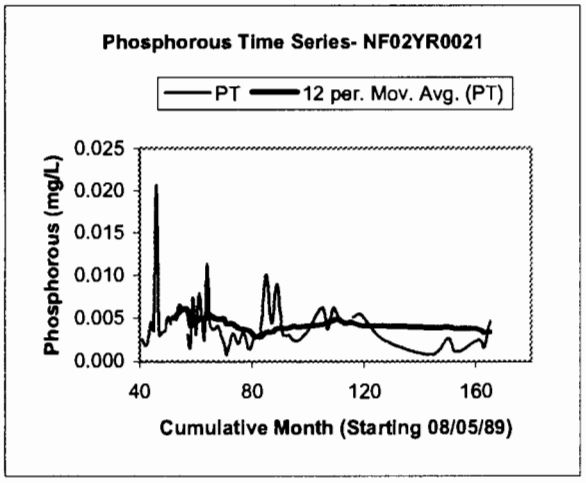

Sulphate Time Series- NF02YR0021
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

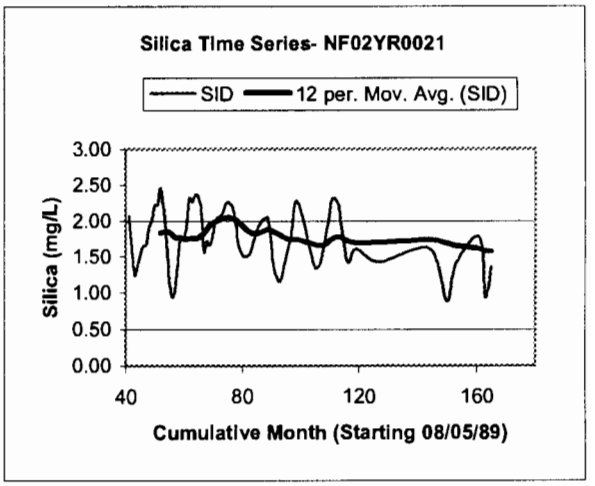

Magnesium Time Series- NF02YR0021
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

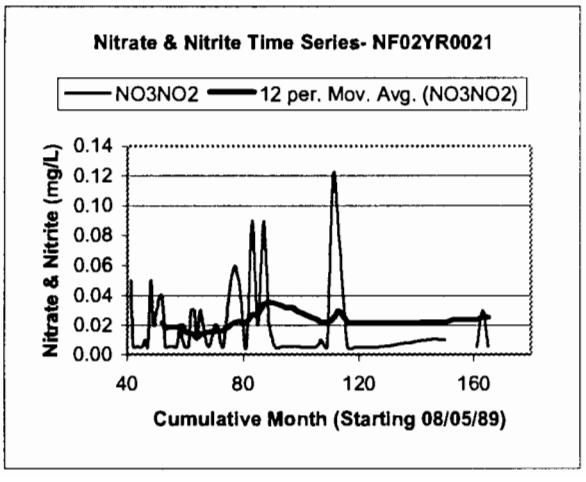

Chloride Time Series- NF02YR0021
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

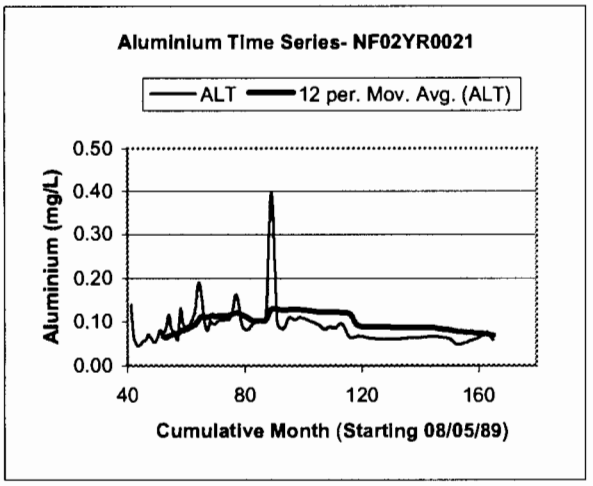

Dissolved Organic Carbon Time Series- NF02YR0021
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

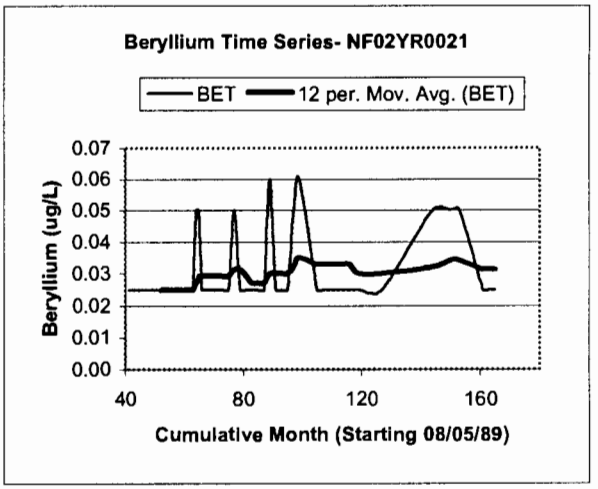

Nitrogen Time Series- NF02YR0021
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

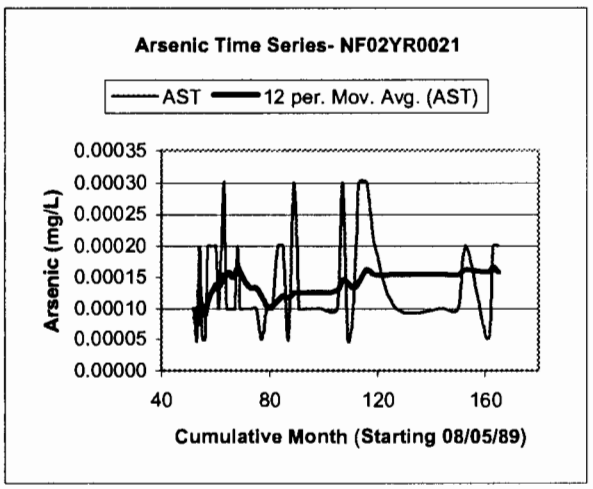

Phosphorous Time Series- NF02YR0021
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
40
80
120
160
Cumulative Month (Starting 08/05/89)

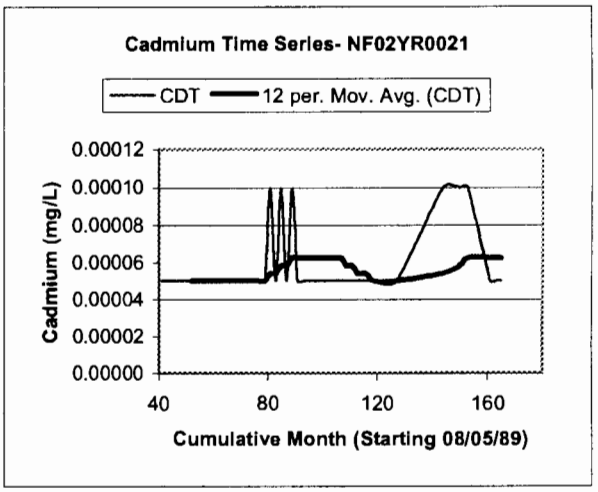

Silica Time Series- NF02YR0021
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

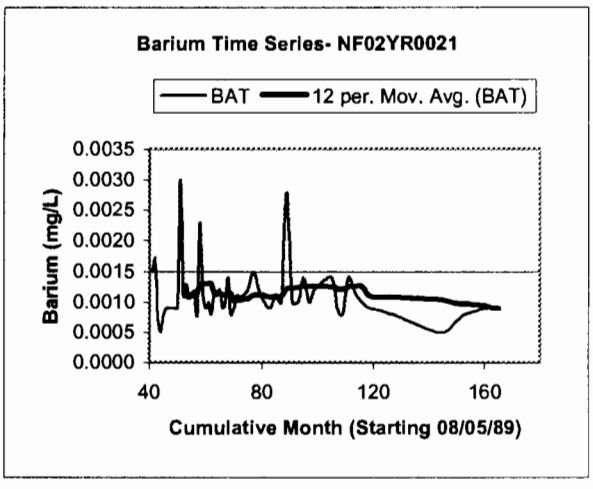

Nitrate & Nitrite Time Series- NF02YR0021
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

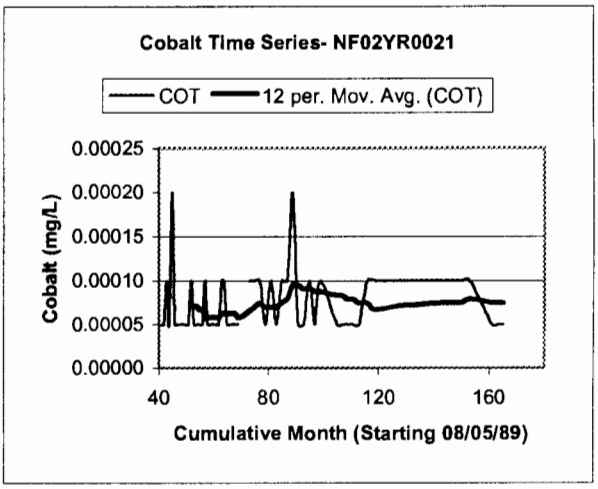

Aluminium Time Series- NF02YR0021
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

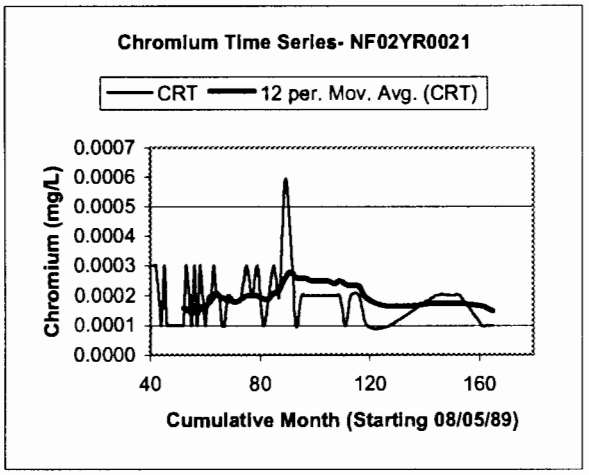

Beryllium Time Series- NF02YR0021
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

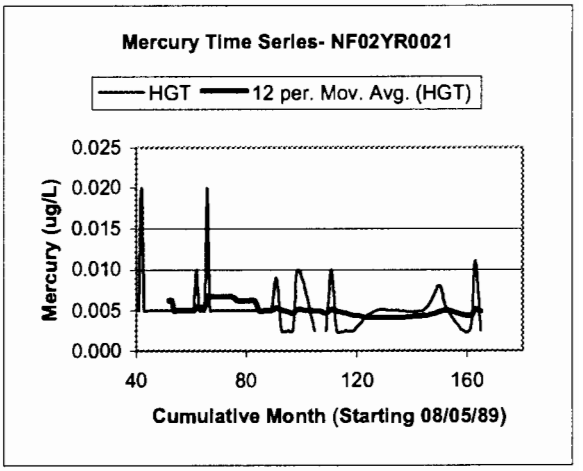

Arsenic Time Series- NF02YR0021
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 08/05/89)

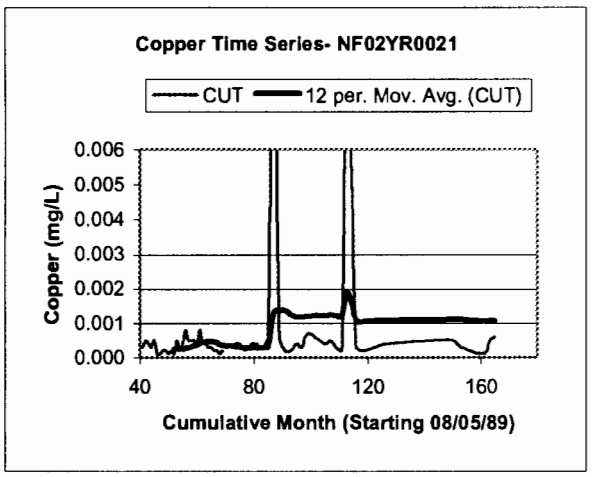

Cadmium Time Series- NF02YR0021
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
40
80
120
160
Cumulative Month (Starting 08/05/89)

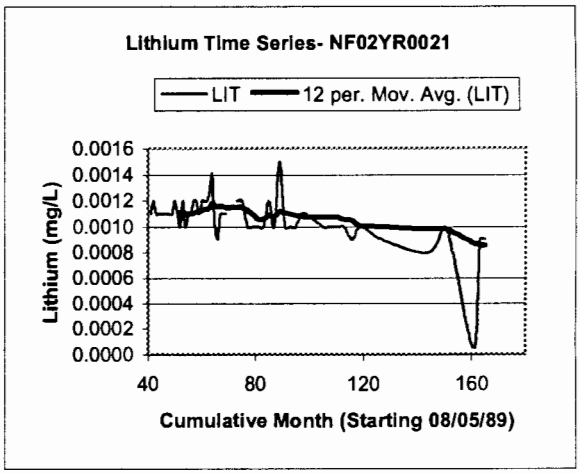

Barium Time Series- NF02YR0021
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

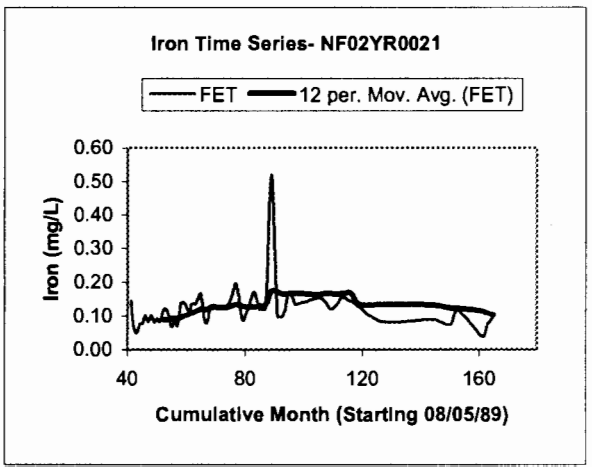

Cobalt Time Series- NF02YR0021
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 08/05/89)

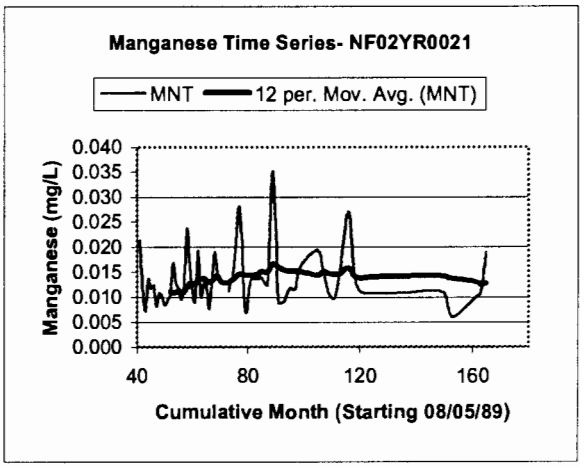

Chromium Time Series- NF02YR0021
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

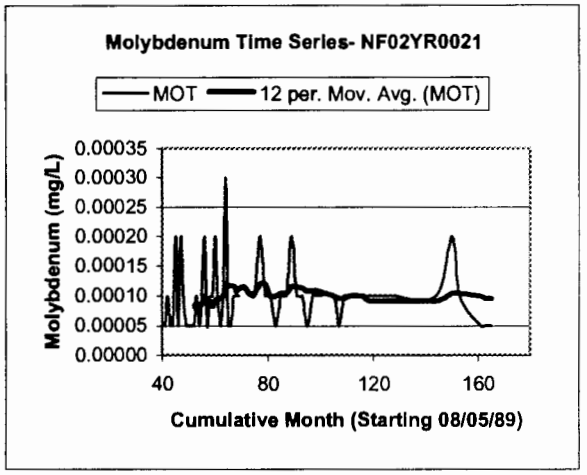

Mercury Time Series- NF02YR0021
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
40
80
120
160
Cumulative Month (Starting 08/05/89)

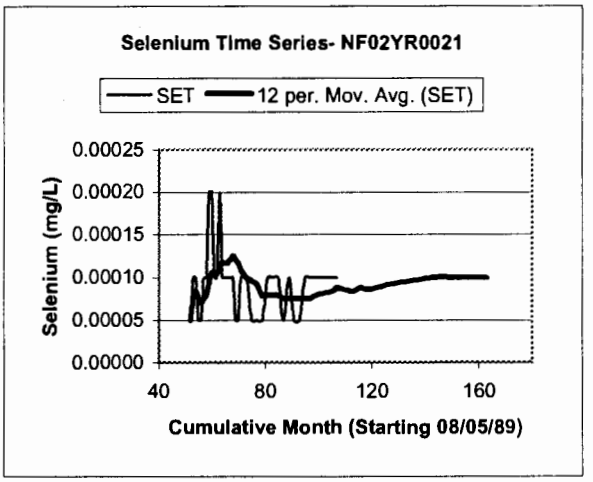

Copper Time Series- NF02YR0021
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
40
80
120
160
Cumulative Month (Starting 08/05/89)

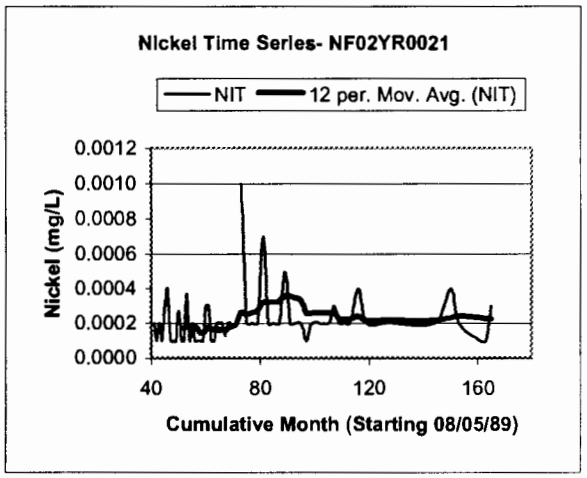

Lithium Time Series- NF02YR0021
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

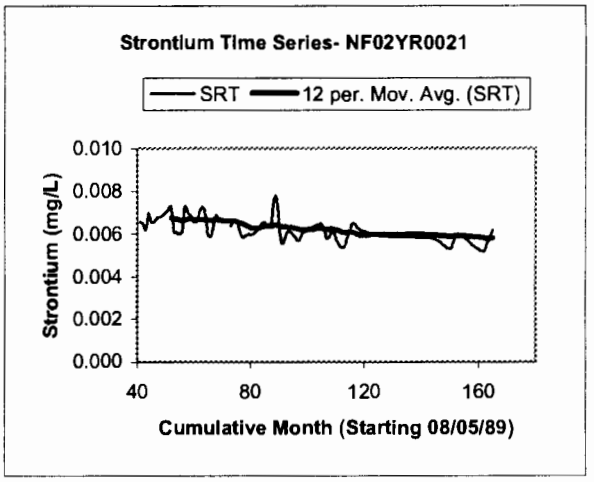

Iron Time Series- NF02YR0021
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
80
120
160
Cumulative Month (Starting 08/05/89)

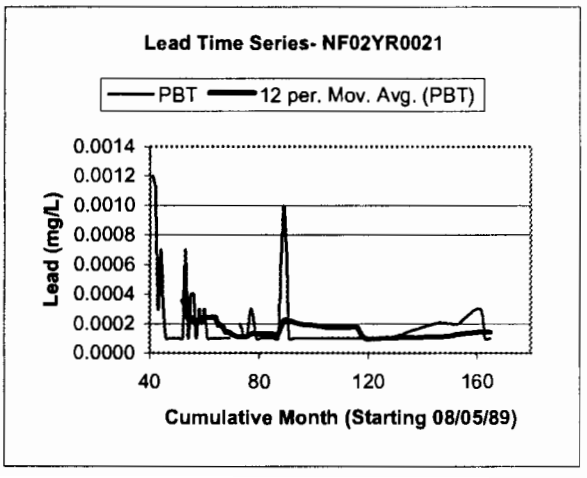

Manganese Time Series- NF02YR0021
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
80
120
160
Cumulative Month (Starting 08/05/89)

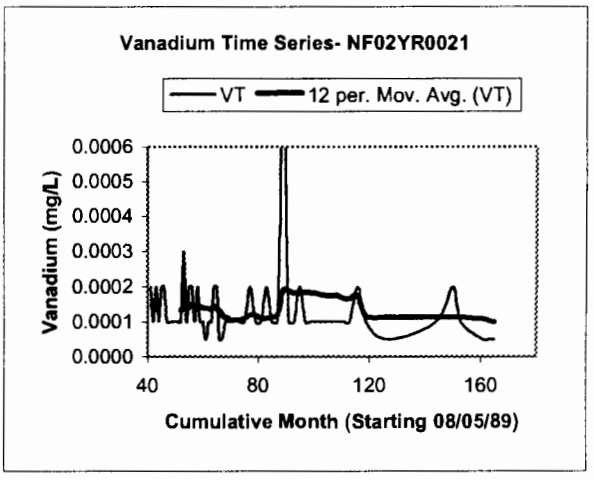

Molybdenum Time Series- NF02YR0021
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 08/05/89)

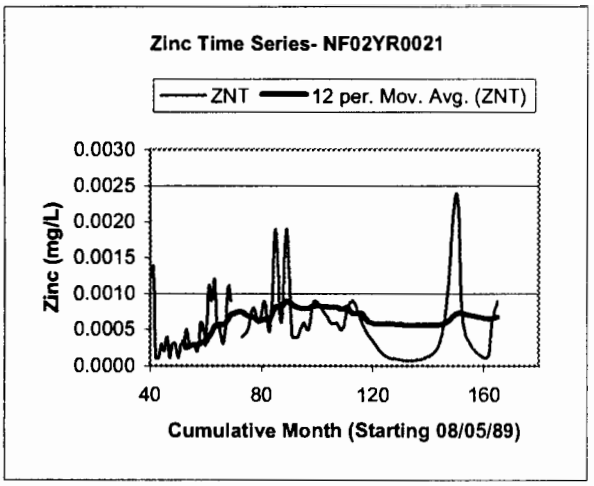

Selenium Time Series- NF02YR0021
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
80
120
160
Cumulative Month (Starting 08/05/89)


Nickel Time Series- NF02YR0021
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

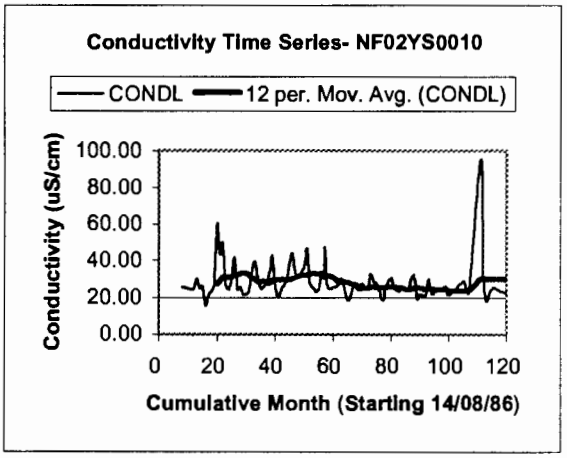

Strontium Time Series- NF02YR0021
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
40
80
120
160
Cumulative Month (Starting 08/05/89)

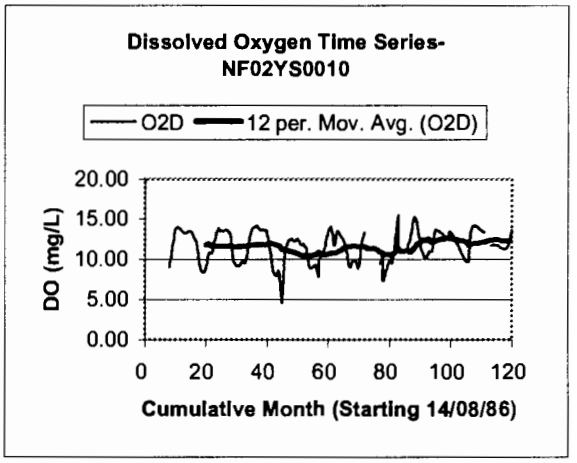

Lead Time Series- NF02YR0021
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

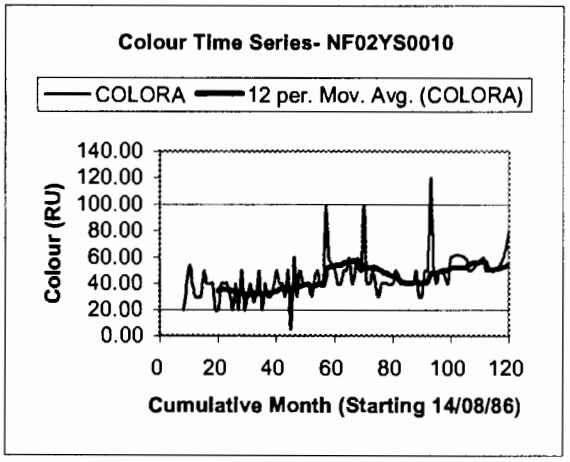

Vanadium Time Series- NF02YR0021
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

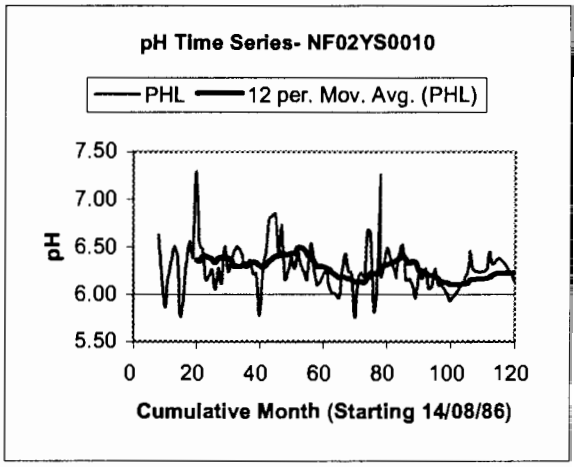

Zinc Time Series- NF02YR0021
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
80
120
160
Cumulative Month (Starting 08/05/89)

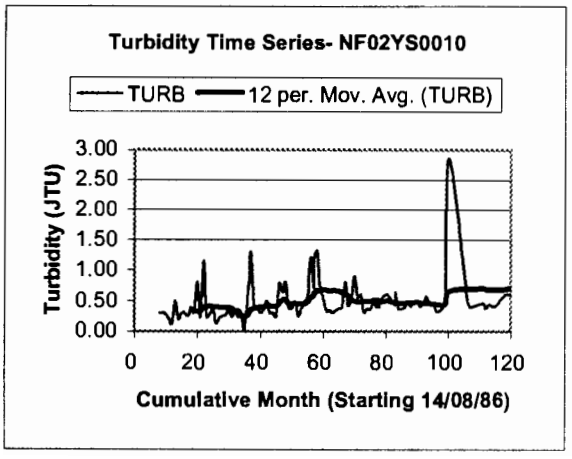
Time Series Plots of Bread Cove Brook- NF02YS0010

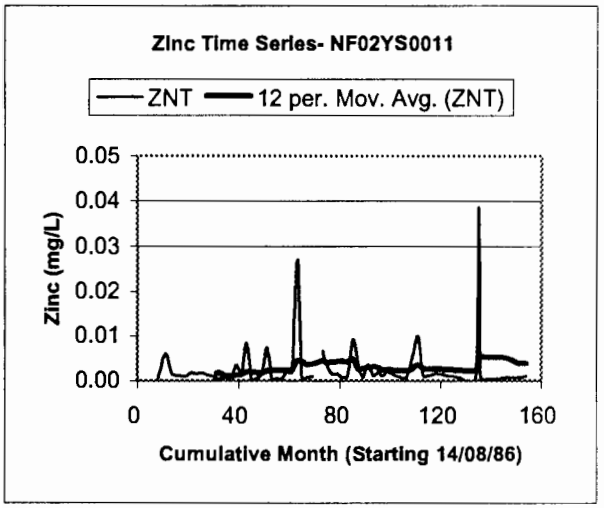


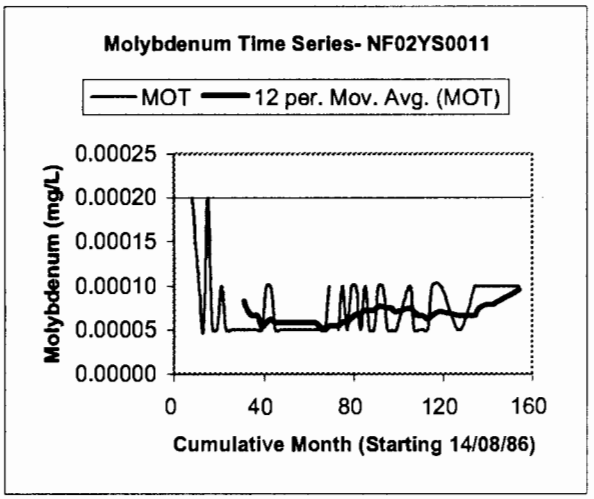


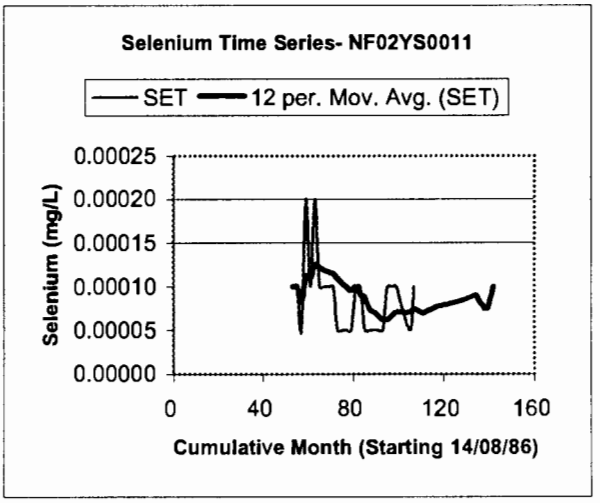


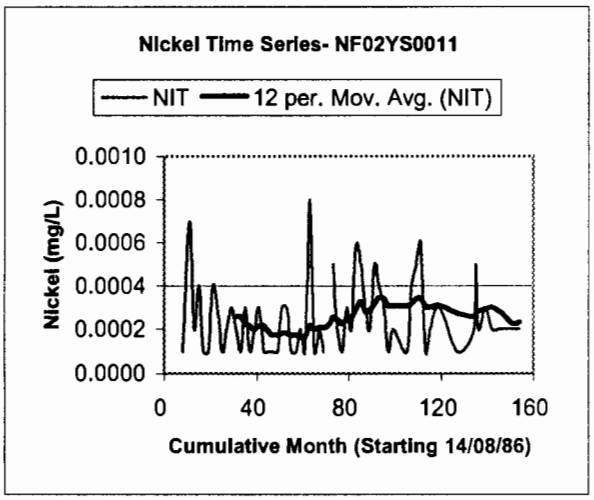


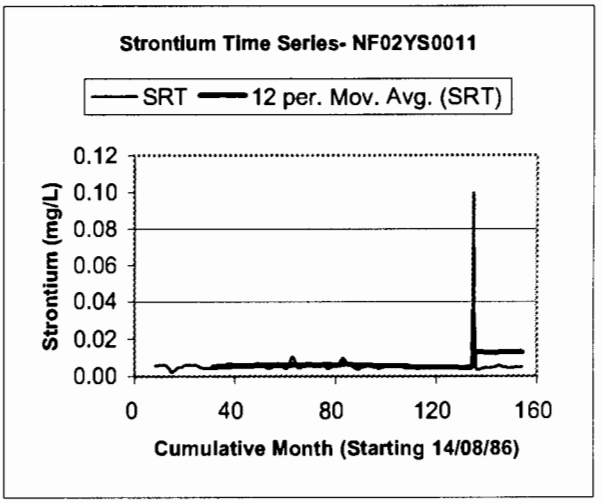


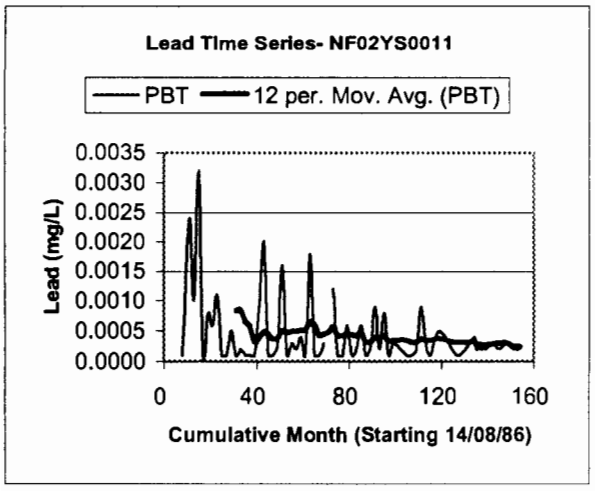

Zinc Time Series- NF02YS0011
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

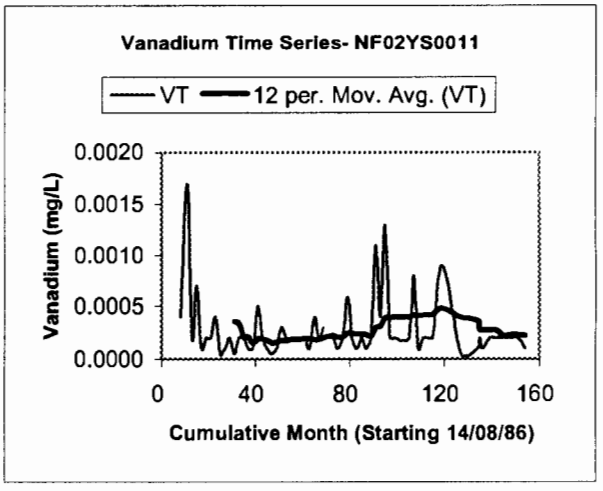

Molybdenum Time Series- NF02YS0011
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

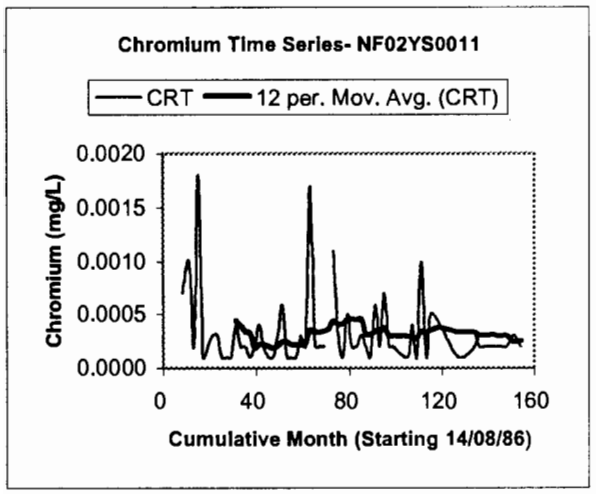

Selenium Time Series- NF02YS0011
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

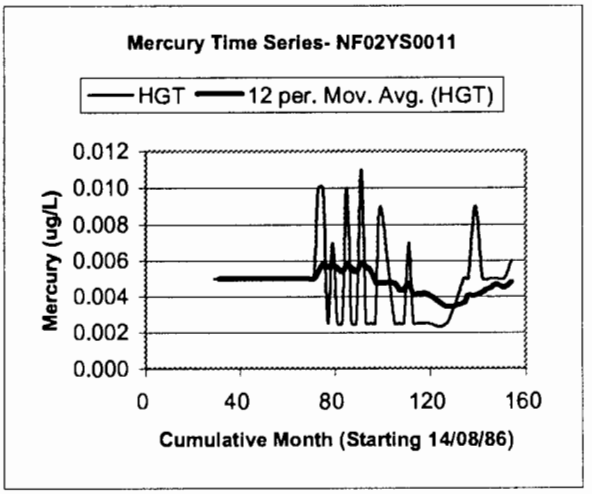

Nickel Time Series- NF02YS0011
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

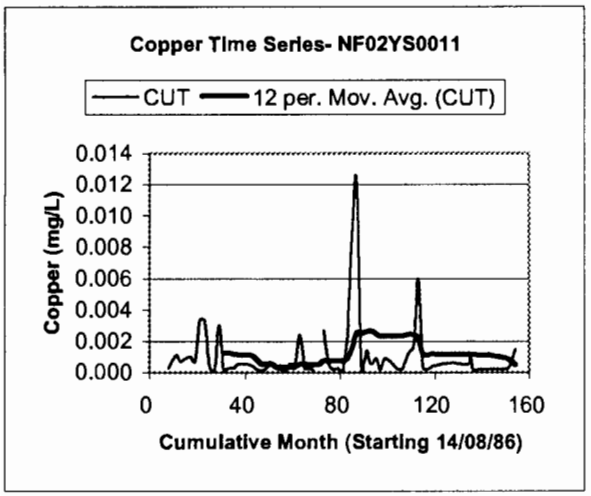

Strontium Time Series- NF02YS0011
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

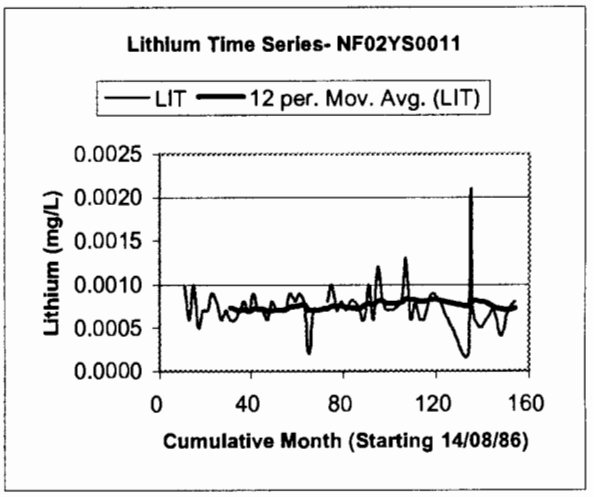

Lead Time Series- NF02YS0011
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

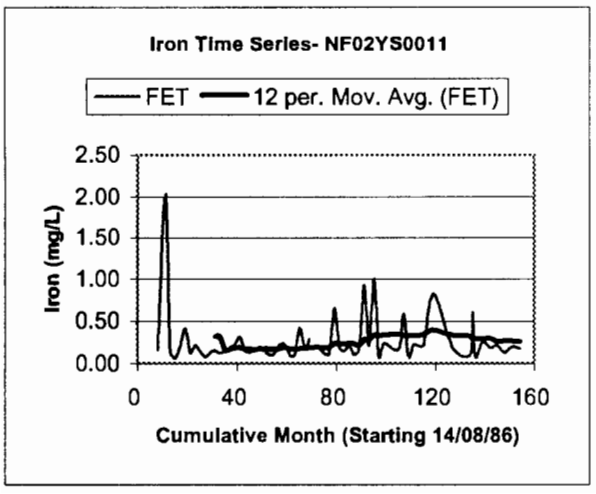

Vanadium Time Series- NF02YS0011
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

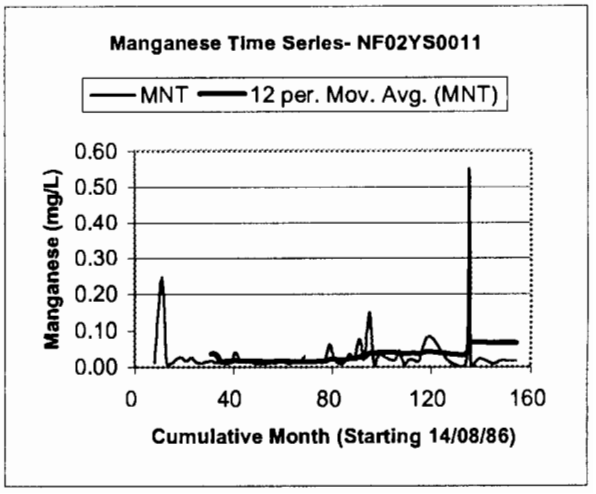

Chromium Time Series- NF02YS0011
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

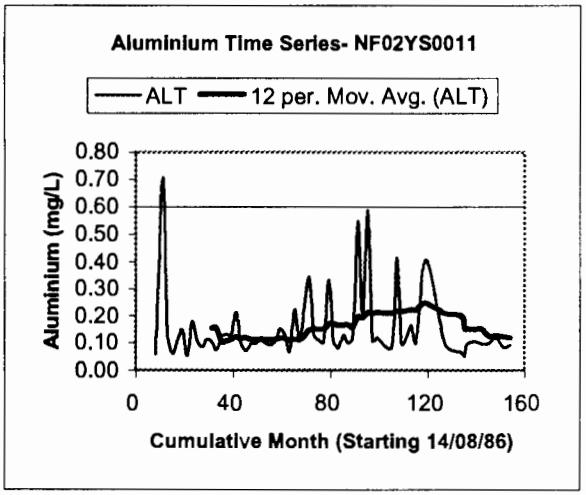

Mercury Time Series- NF02YS0011
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

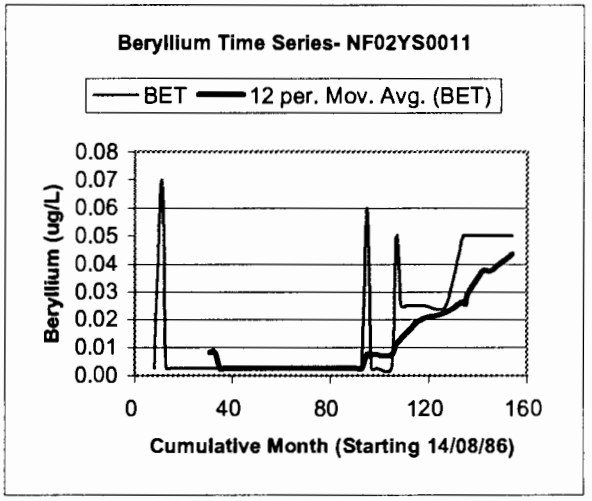

Copper Time Series- NF02YS0011
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

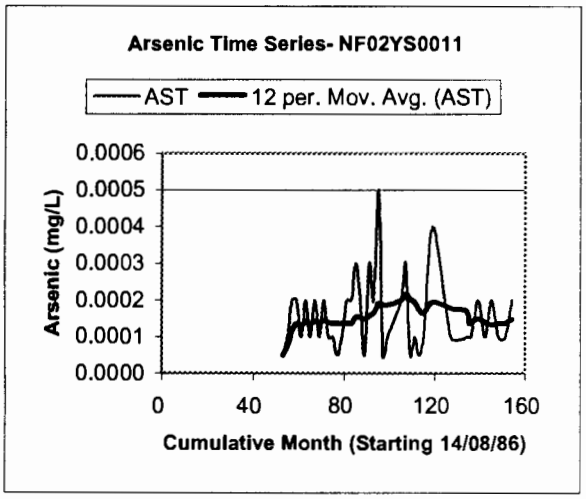

Lithium Time Series- NF02YS0011
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

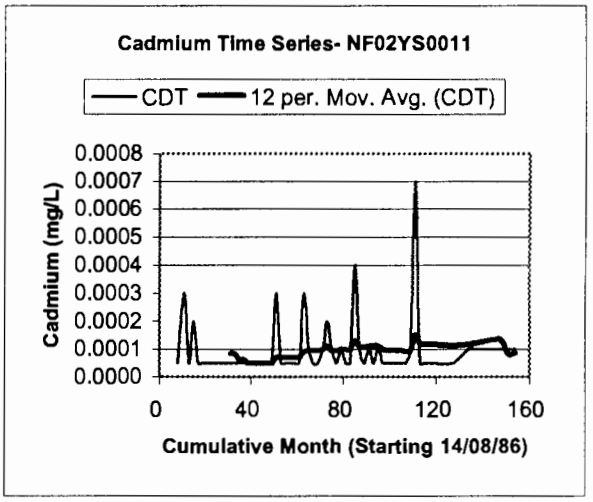

Iron Time Series- NF02YS0011
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

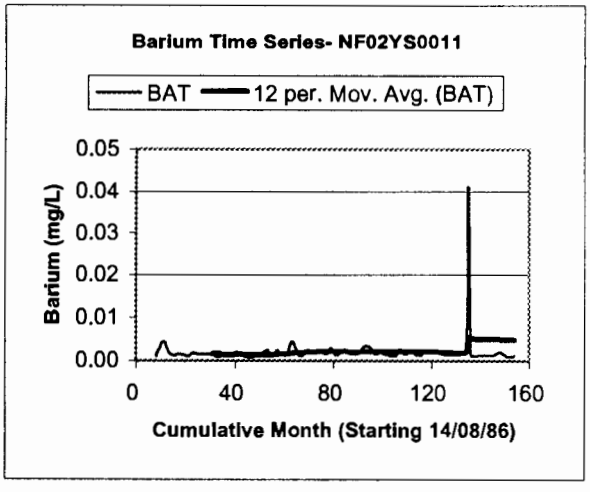

Manganese Time Series- NF02YS0011
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

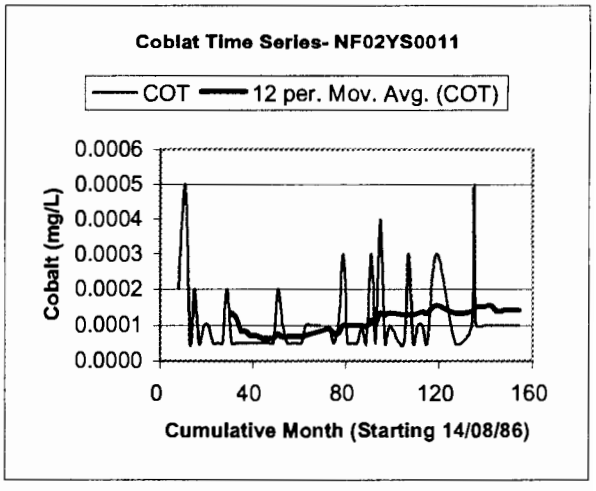

Aluminium Time Series- NF02YS0011
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

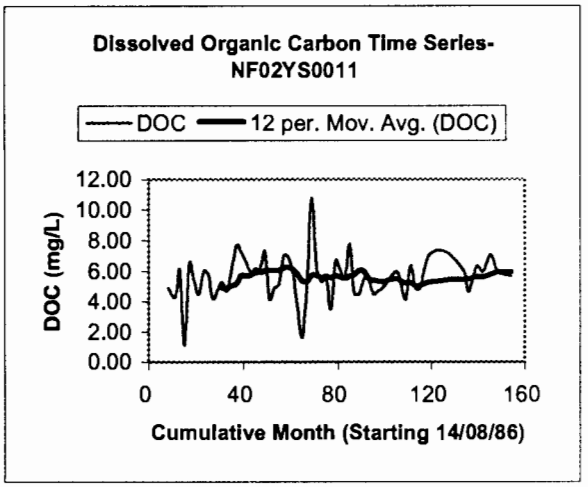

Beryllium Time Series- NF02YS0011
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

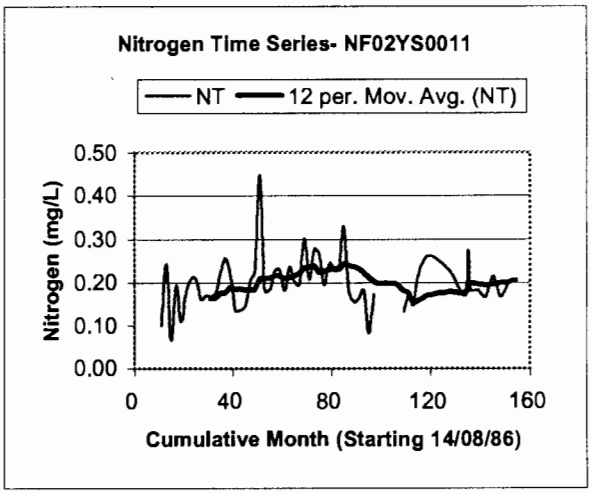

Arsenic Time Series- NF02YS0011
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

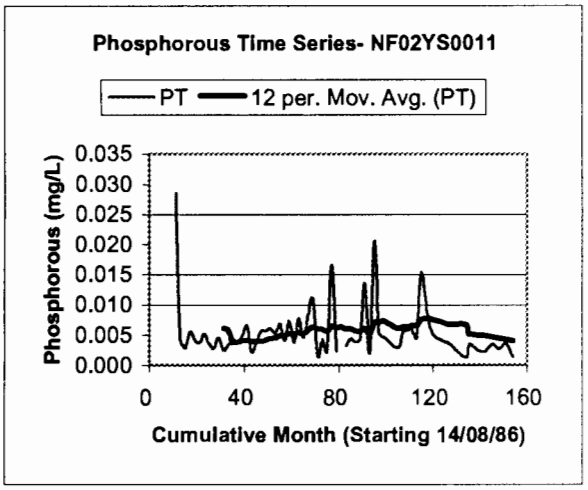

Cadmium Time Series- NF02YS0011
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

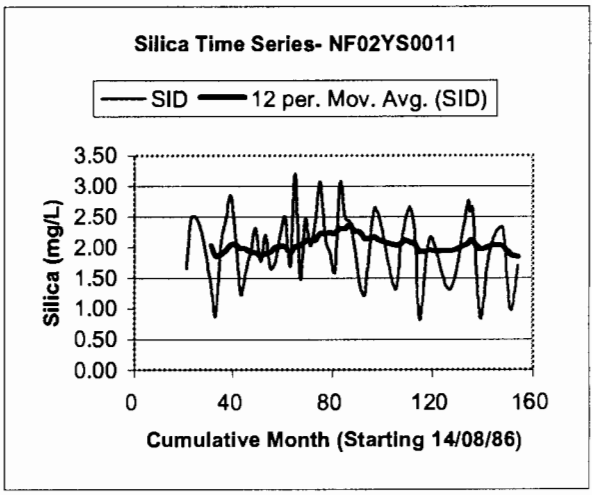

Barium Time Series- NF02YS0011
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

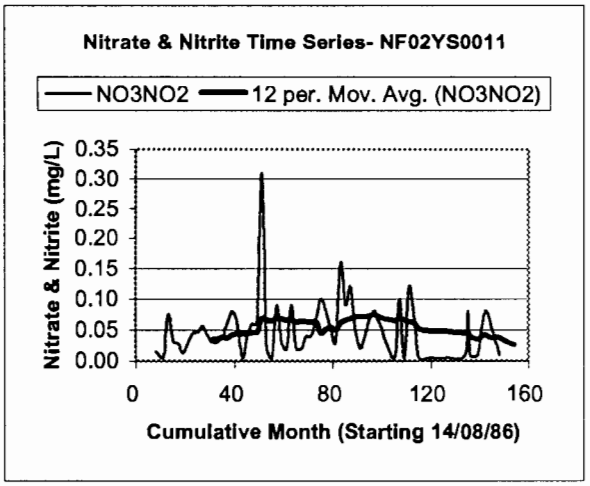

Coblat Time Series- NF02YS0011
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

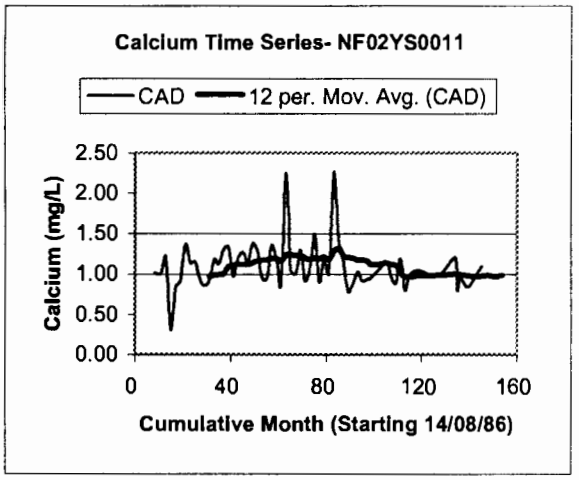

Dissolved Organic Carbon Time Series- NF02YS0011
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

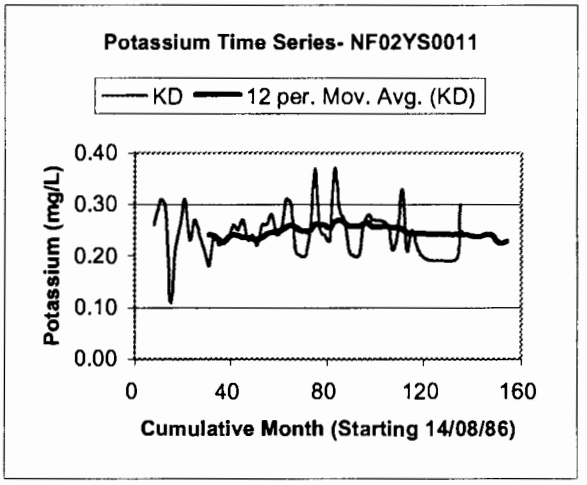

Nitrogen Time Series- NF02YS0011
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

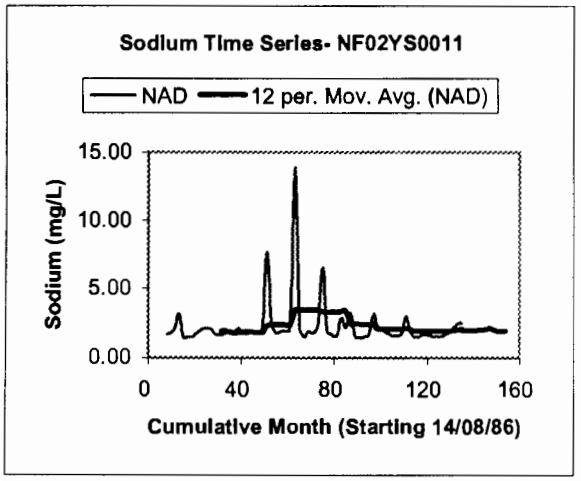

Phosphorous Time Series- NF02YS0011
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

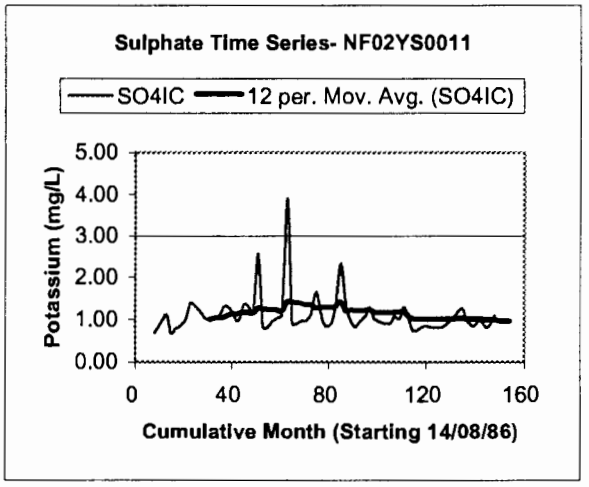

Silica Time Series- NF02YS0011
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

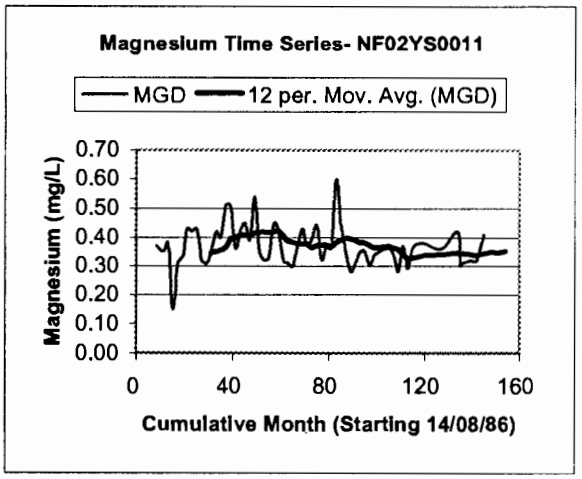

Nitrate & Nitrite Time Series- NF02YS0011
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

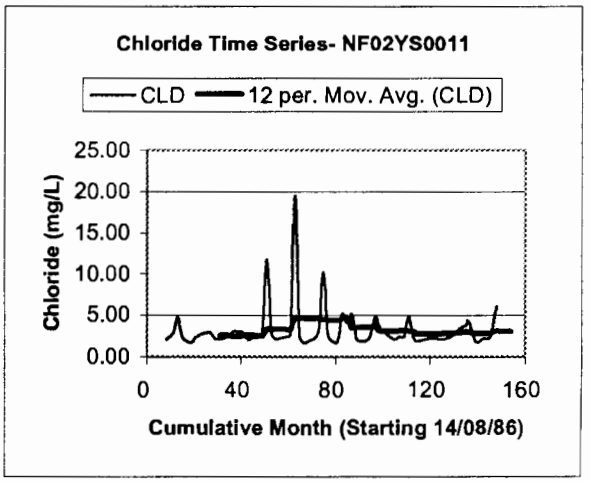

Calcium Time Series- NF02YS0011
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)


Potassium Time Series- NF02YS0011
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

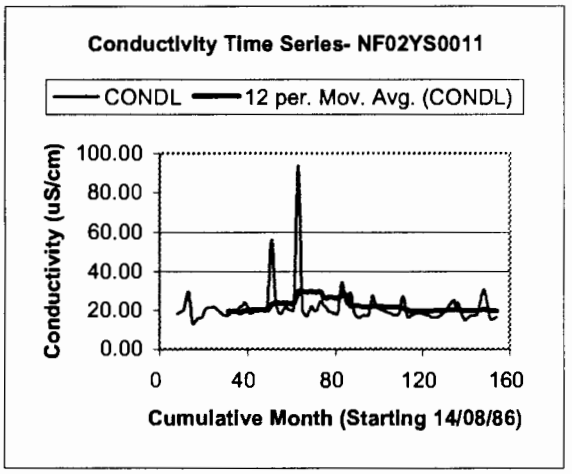

Sodium Time Series- NF02YS0011
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

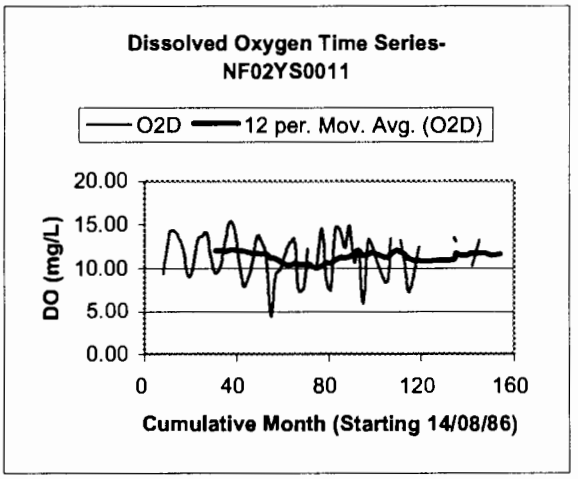

Sulphate Time Series- NF02YS0011
SO4IC
12 per. Mov. Avg. (SO4IC)
Potassium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

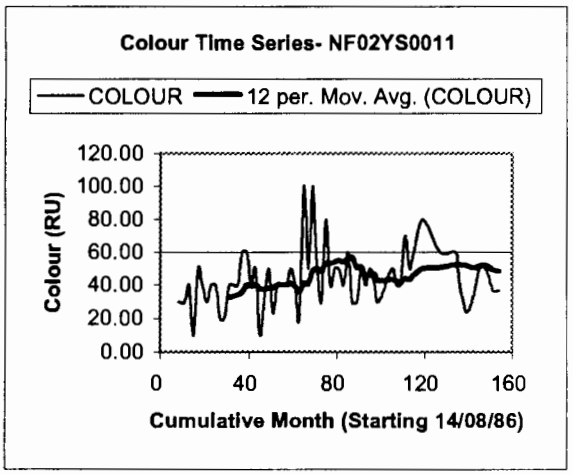

Magnesium Time Series- NF02YS0011
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

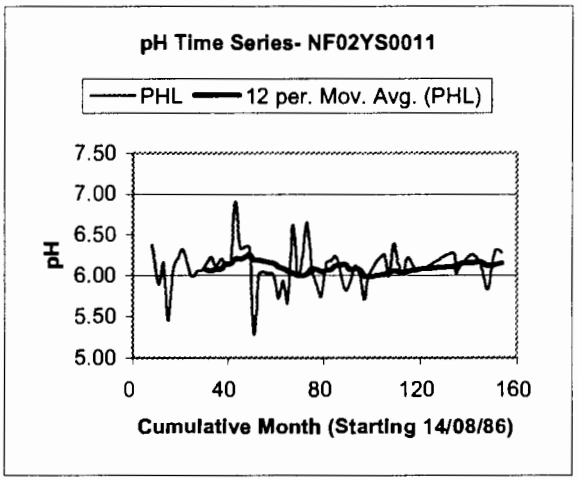

Chloride Time Series- NF02YS0011
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/08/86)

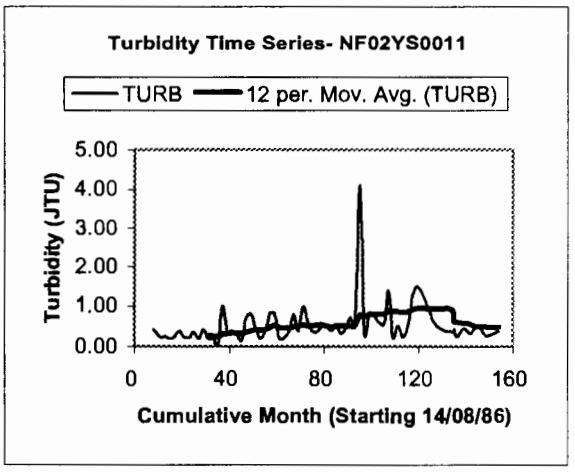
Time Series Plots of Terra Nova River (@ ES Spencer Bridge)- NF02YS0011

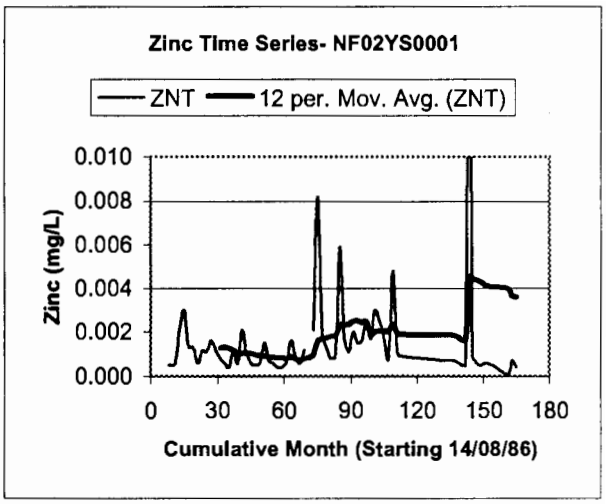


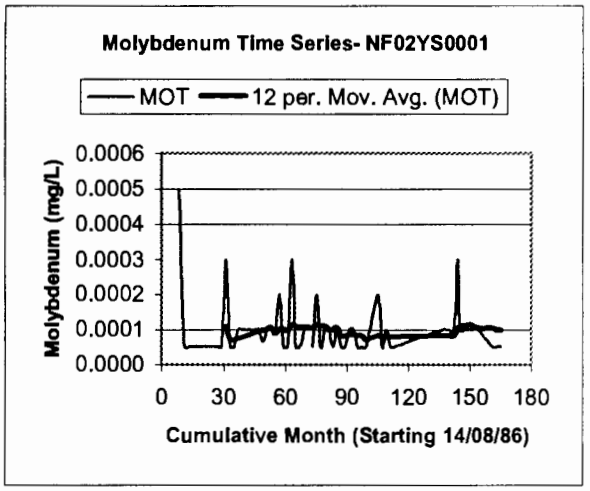


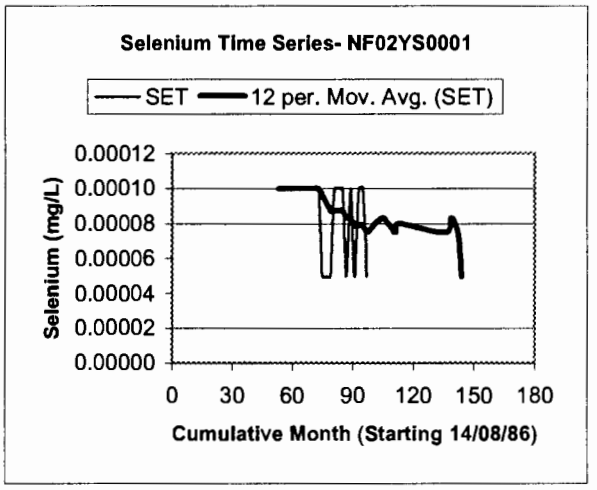


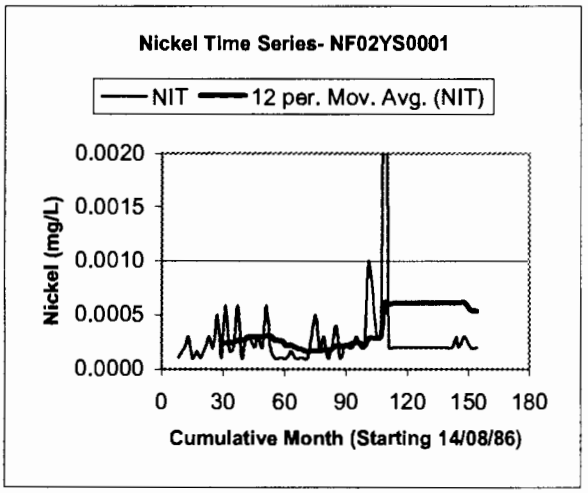


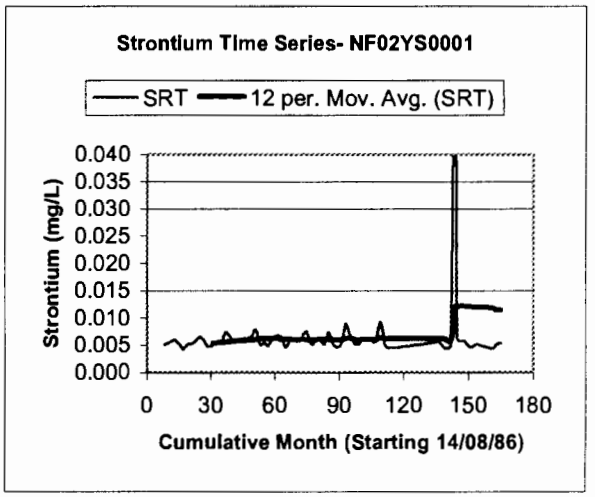


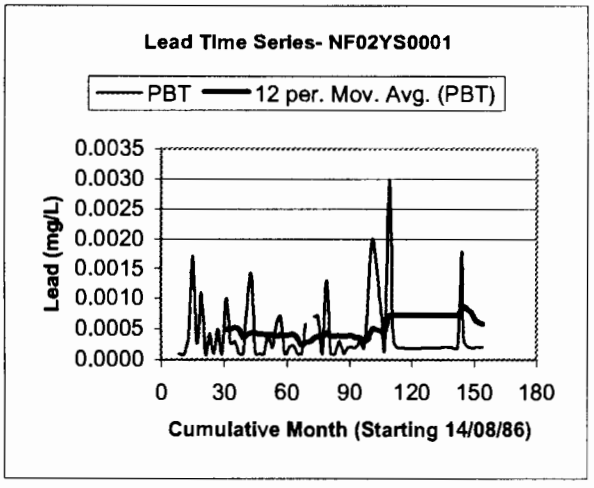

Zinc Time Series- NF02YS0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

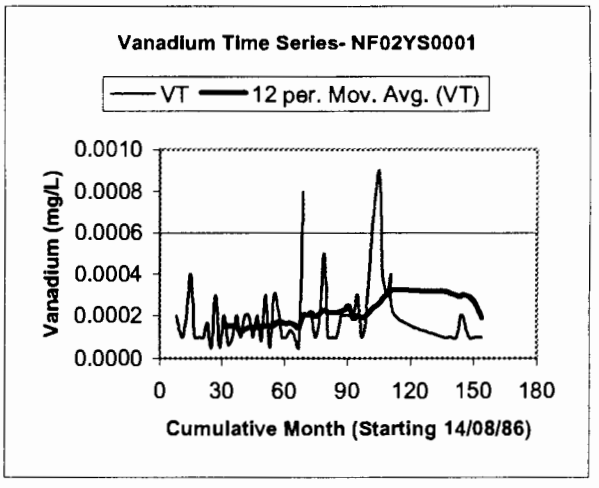

Molybdenum Time Series- NF02YS0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

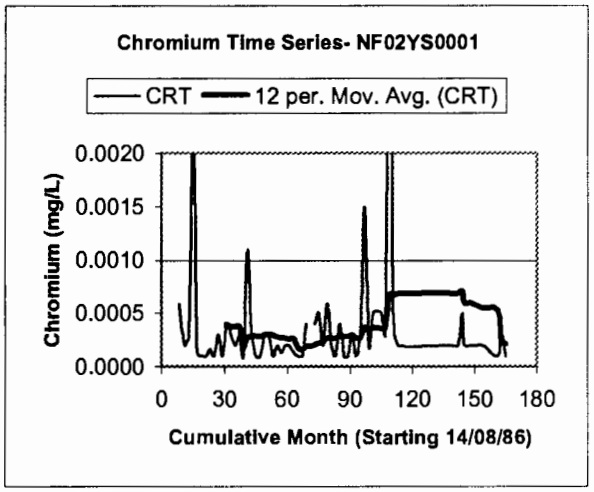

Selenium Time Series- NF02YS0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

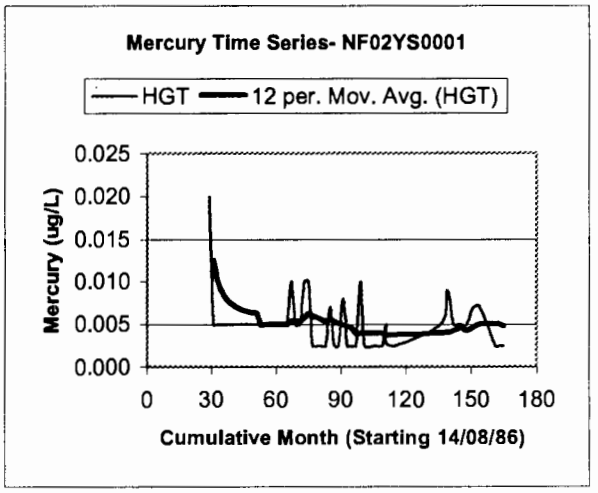

Nickel Time Series- NF02YS0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

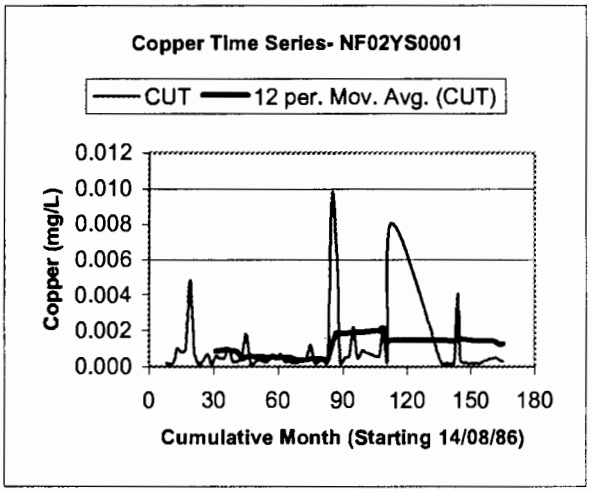

Strontium Time Series- NF02YS0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

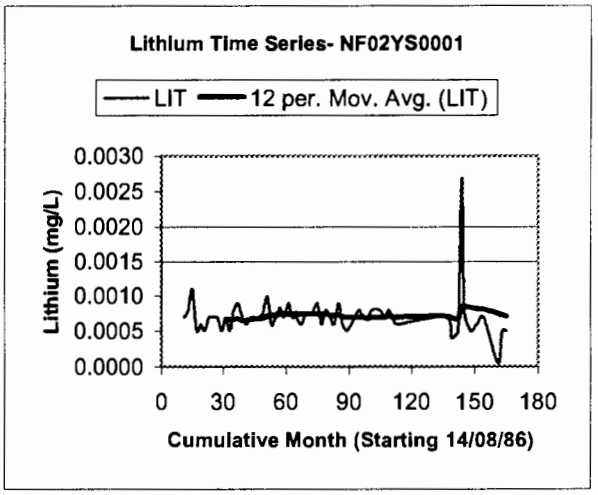

Lead Time Series- NF02YS0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

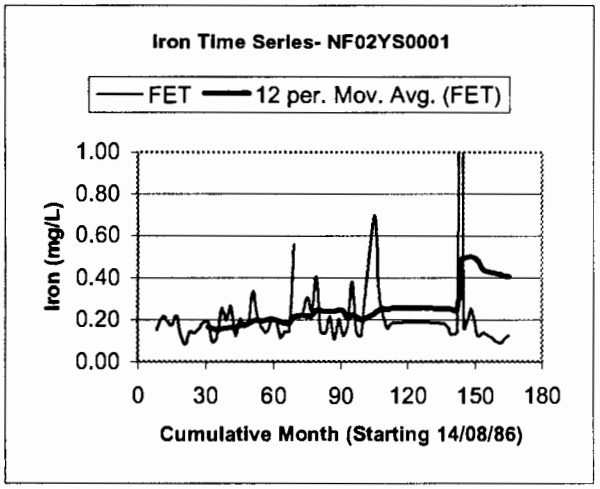

Vanadium Time Series- NF02YS0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 30 60 90 120 150 180
Cumulative Month (Starting 14/08/86)

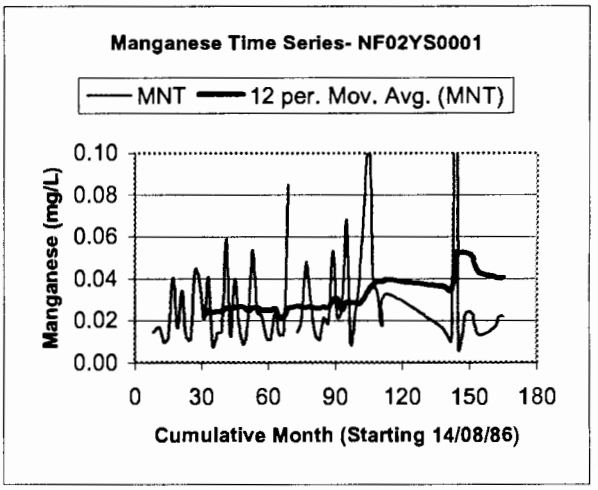

Chromium Time Series- NF02YS0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

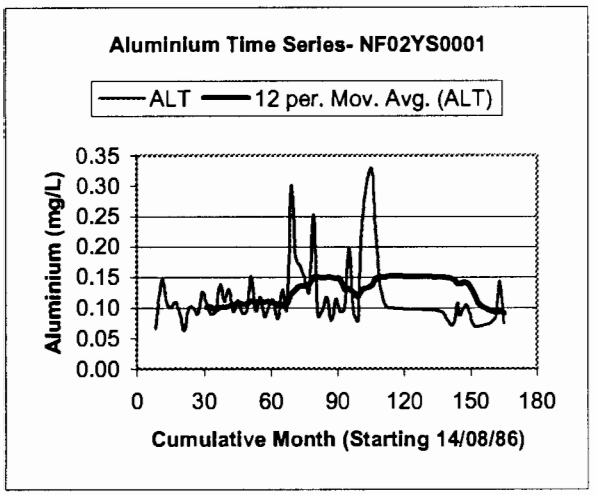

Mercury Time Series- NF02YS0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

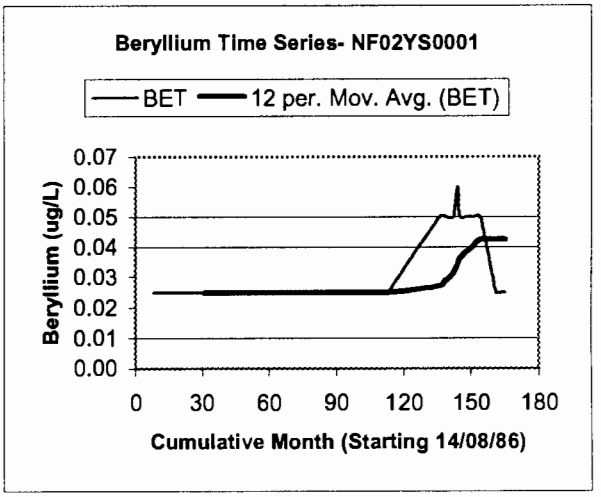

Copper Time Series- NF02YS0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

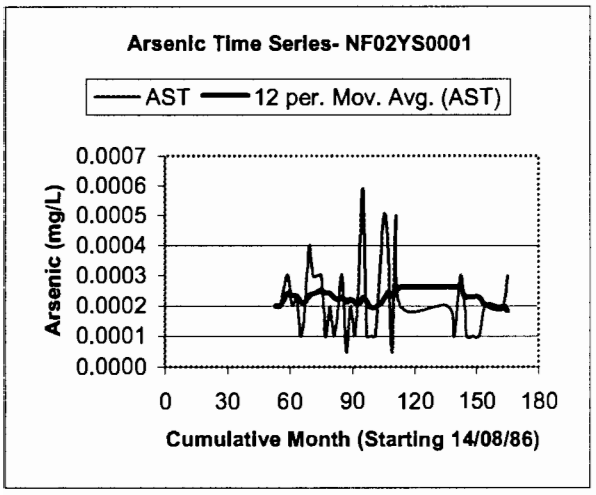

Lithium Time Series- NF02YS0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

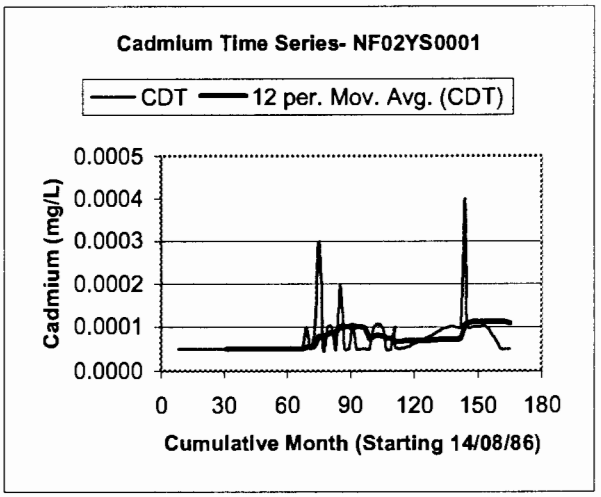

Iron Time Series- NF02YS0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

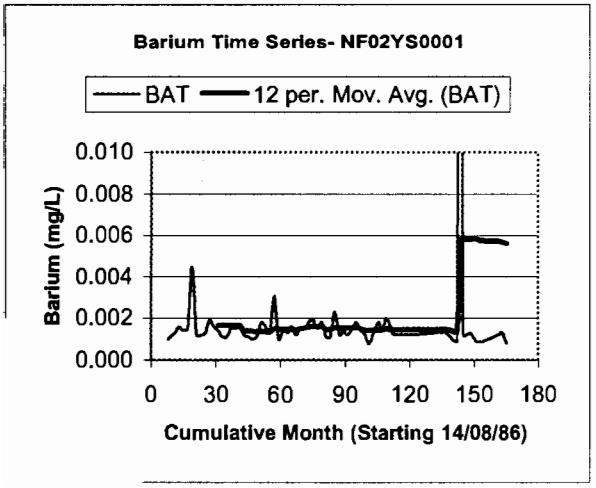

Manganese Time Series- NF02YS0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

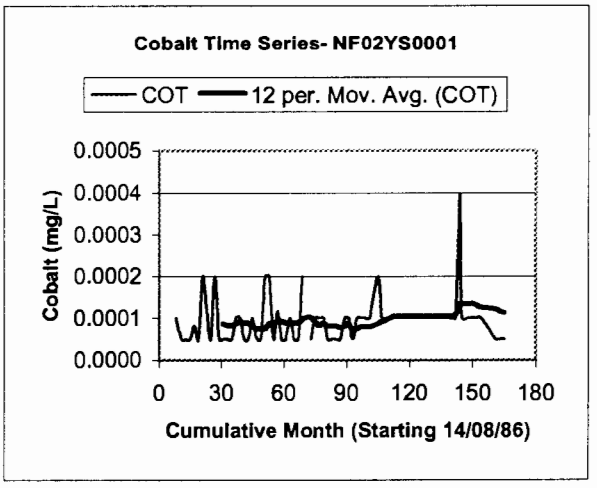

Aluminium Time Series- NF02YS0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

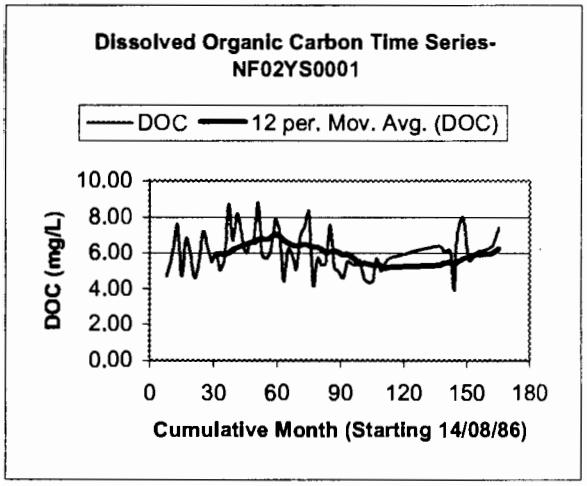

Beryllium Time Series- NF02YS0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

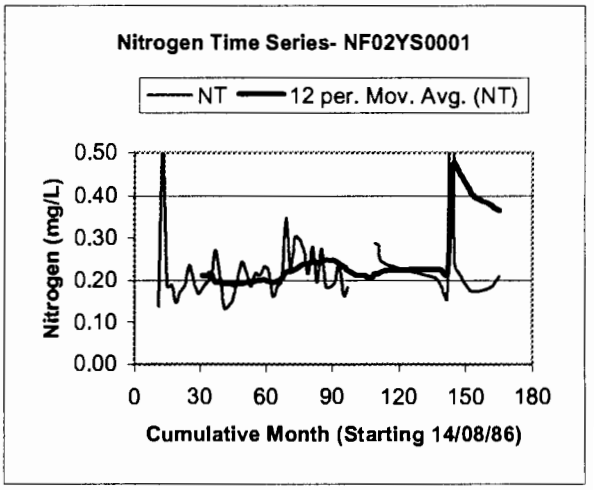

Arsenic Time Series- NF02YS0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

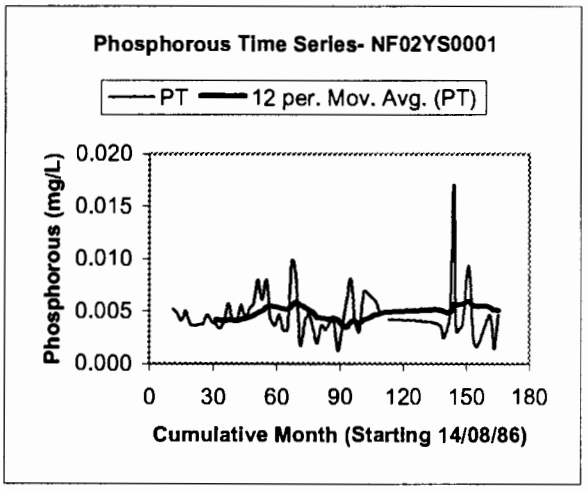

Cadmium Time Series- NF02YS0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

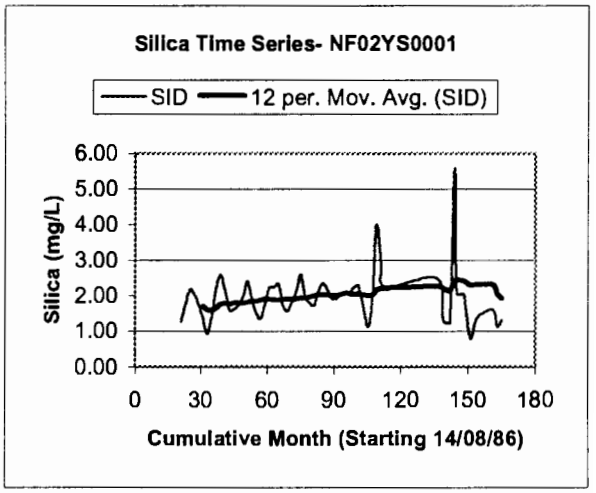

Barium Time Series- NF02YS0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

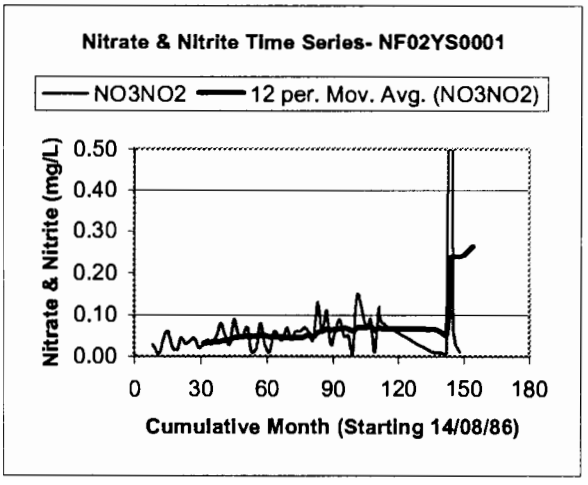

Cobalt Time Series- NF02YS0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

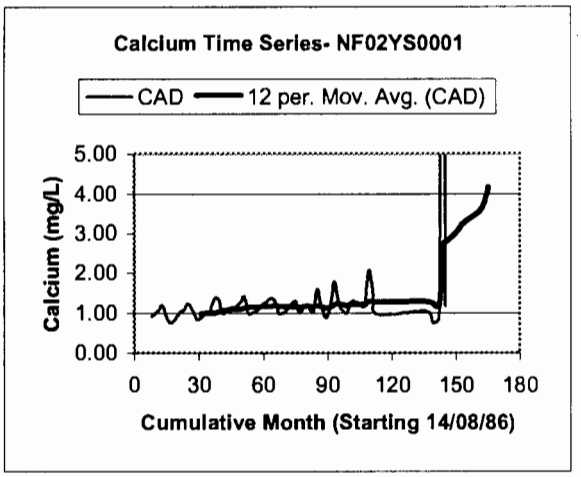

Dissolved Organic Carbon Time Series- NF02YS0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

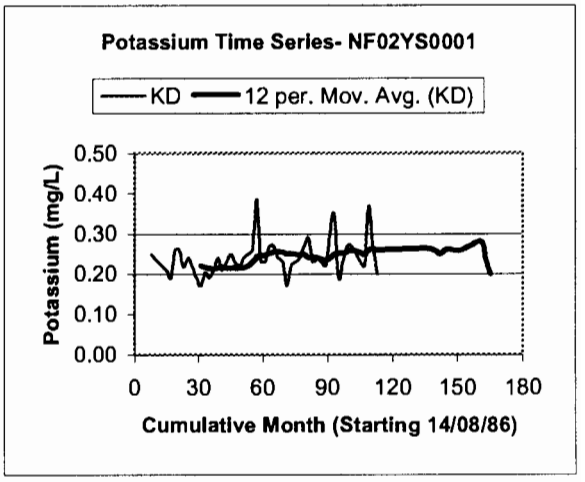

Nitrogen Time Series- NF02YS0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

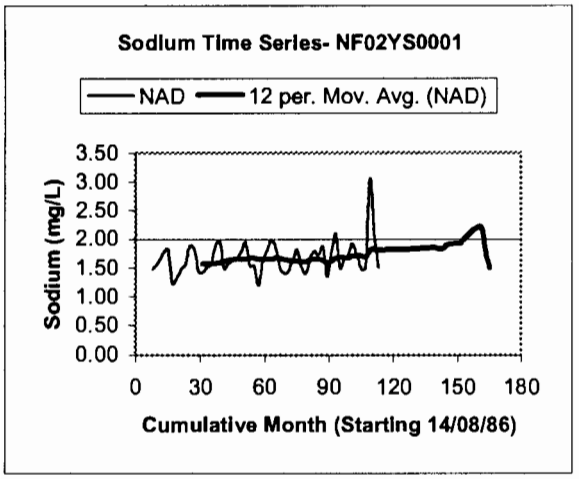

Phosphorous Time Series- NF02YS0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

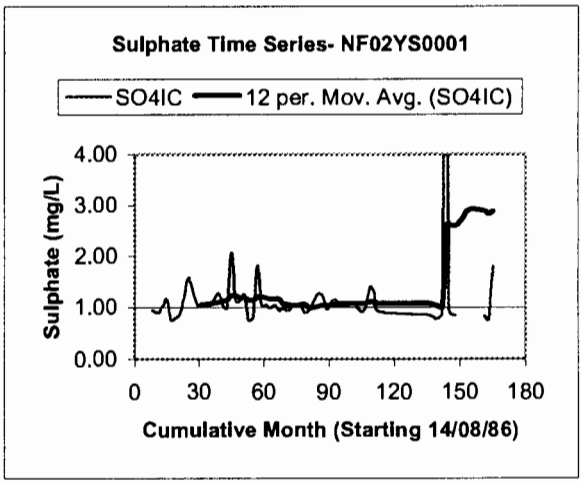

Silica Time Series- NF02YS0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

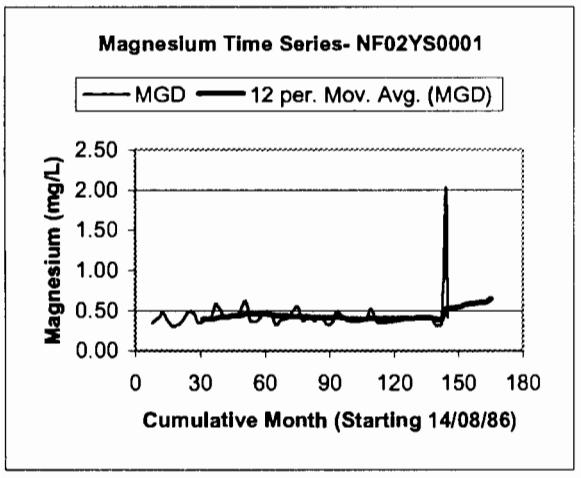

Nitrate & Nitrite Time Series- NF02YS0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

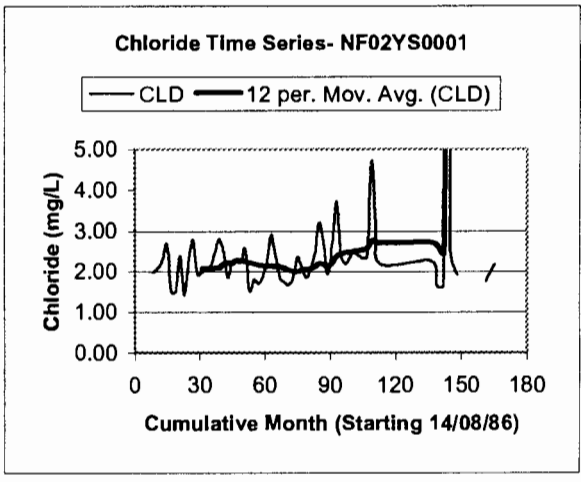

Calcium Time Series- NF02YS0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)


Potassium Time Series- NF02YS0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

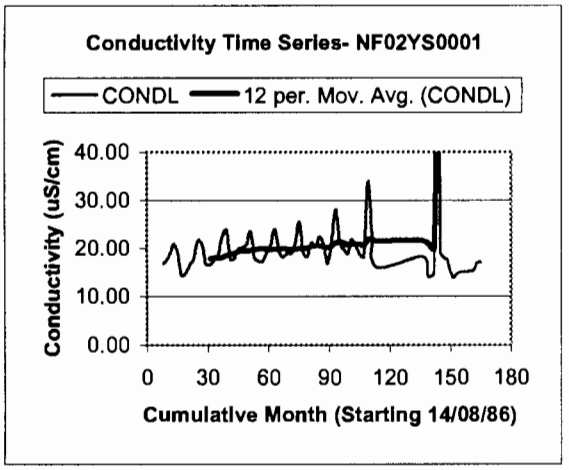

Sodium Time Series- NF02YS0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

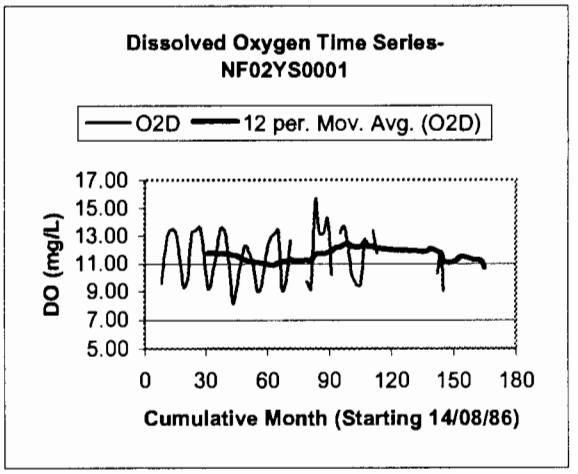

Sulphate Time Series- NF02YS0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

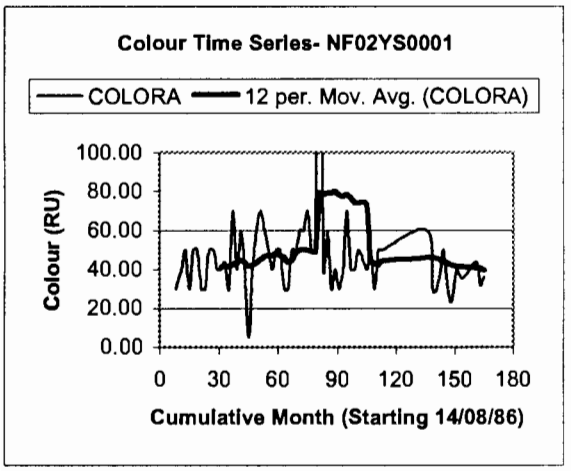

Magnesium Time Series- NF02YS0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

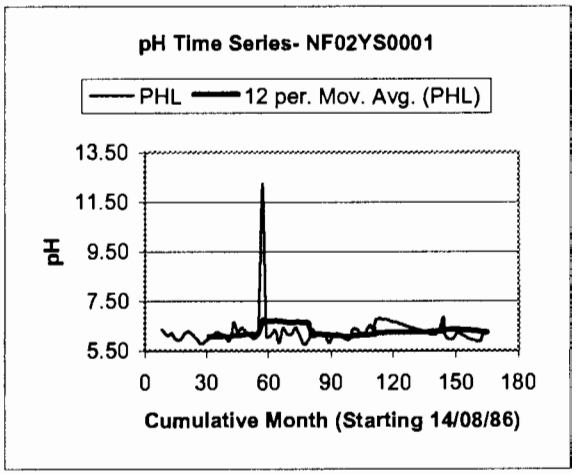

Chloride Time Series- NF02YS0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

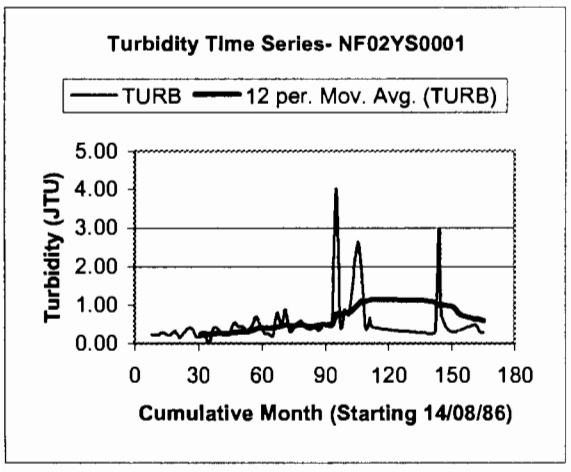
Time Series Plots of Terra Nova River (@ Terra Nova)- NF02YS0001

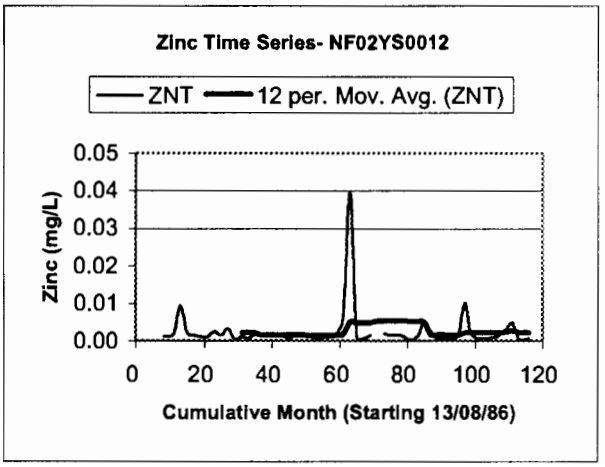


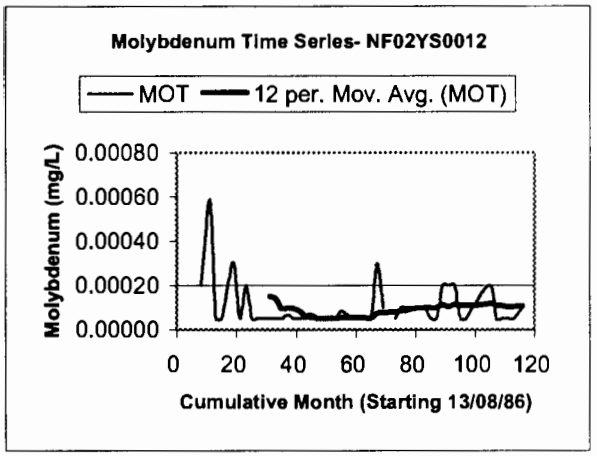


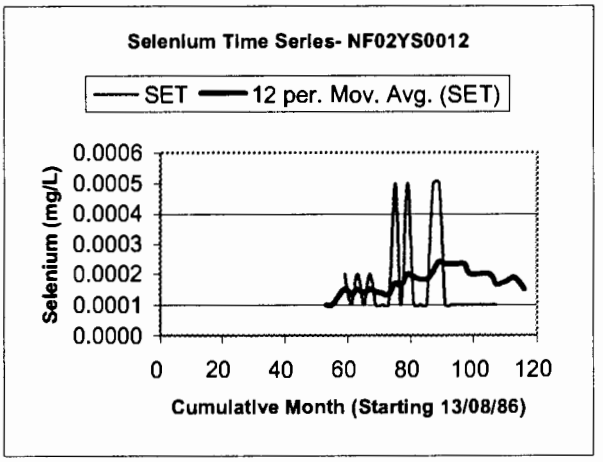


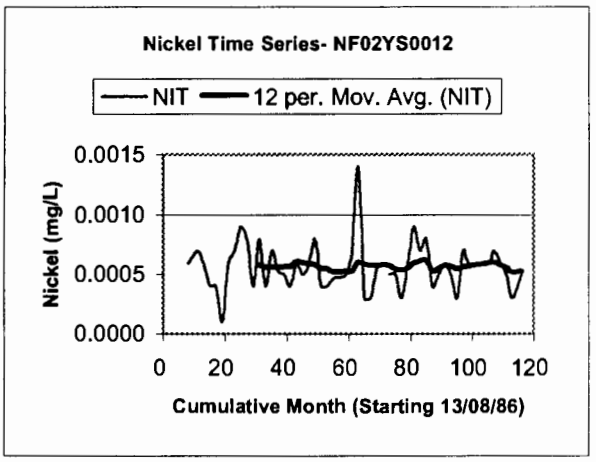


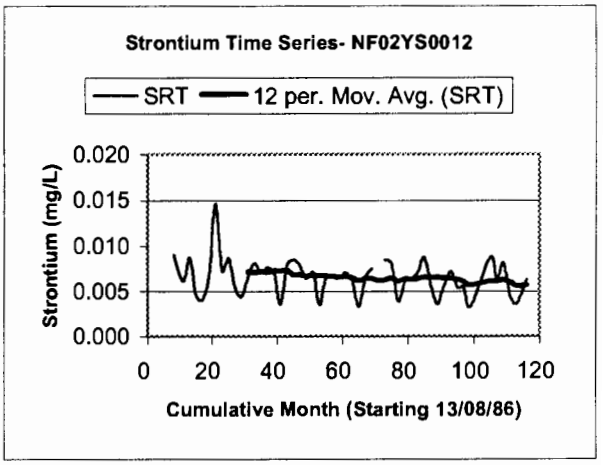


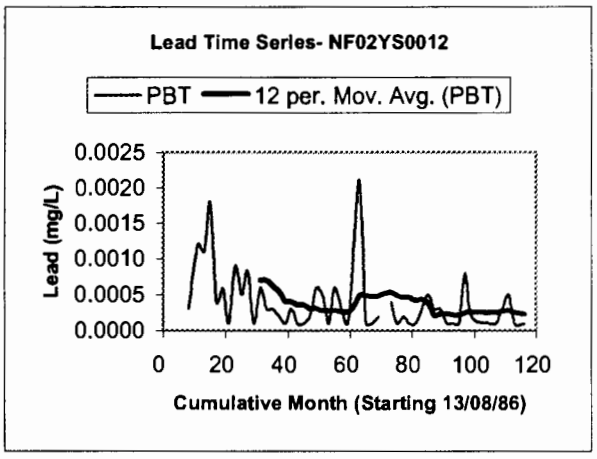

Zinc Time Series- NF02YS0012
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

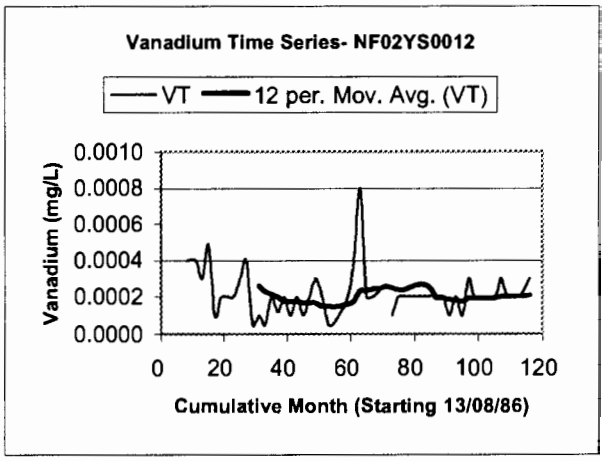

Molybdenum Time Series- NF02YS0012
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00080
0.00060
0.00040
0.00020
0.00000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

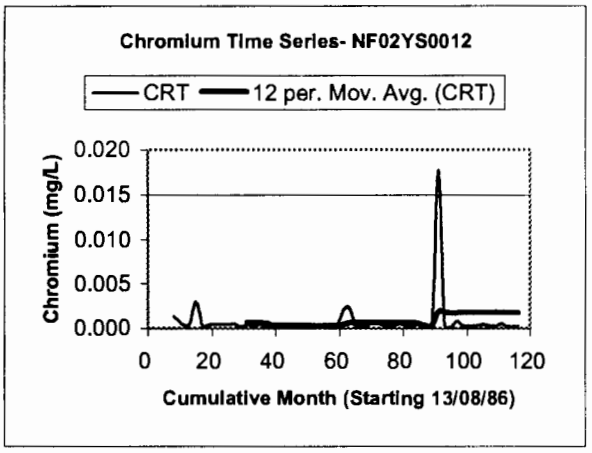

Selenium Time Series- NF02YS0012
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

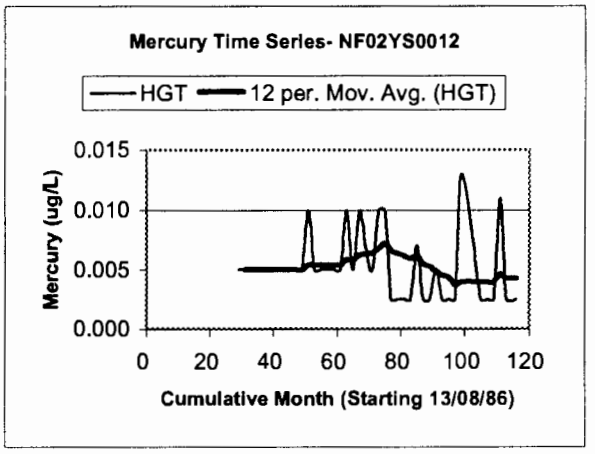

Nickel Time Series- NF02YS0012
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

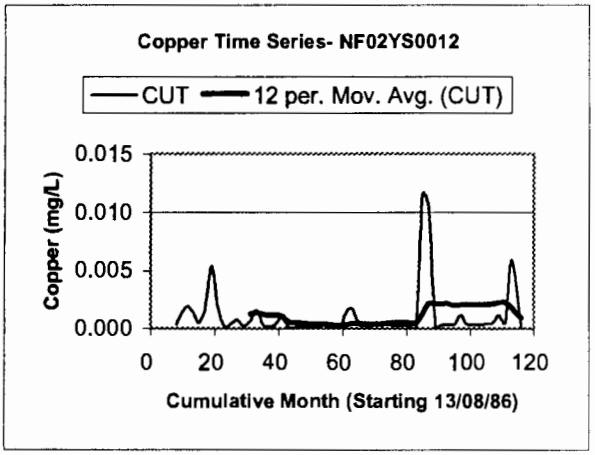

Strontium Time Series- NF02YS0012
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

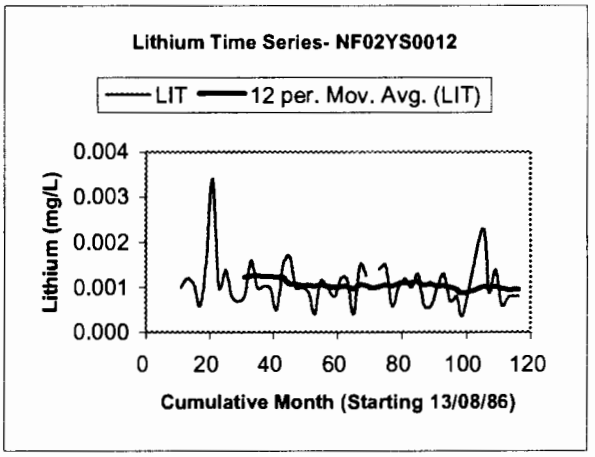

Lead Time Series- NF02YS0012
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

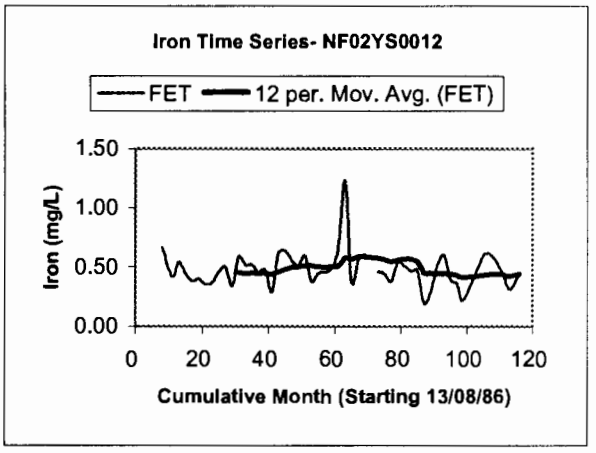

Vanadium Time Series- NF02YS0012
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

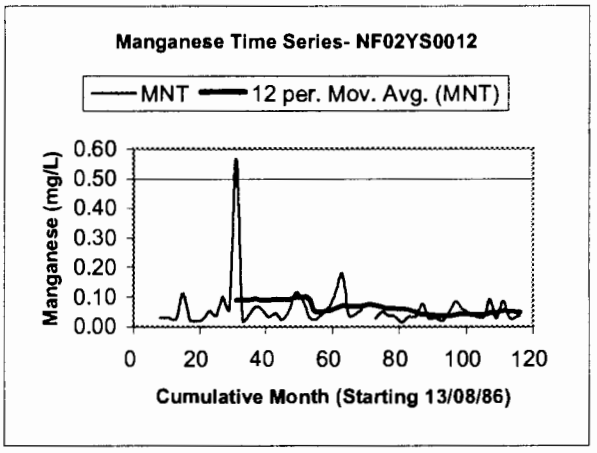

Chromium Time Series- NF02YS0012
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

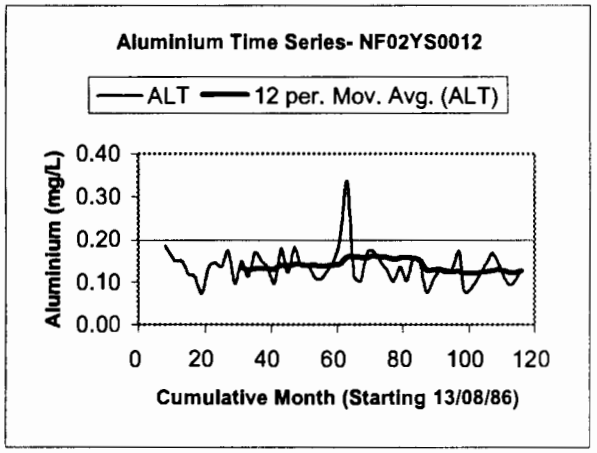

Mercury Time Series- NF02YS0012
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

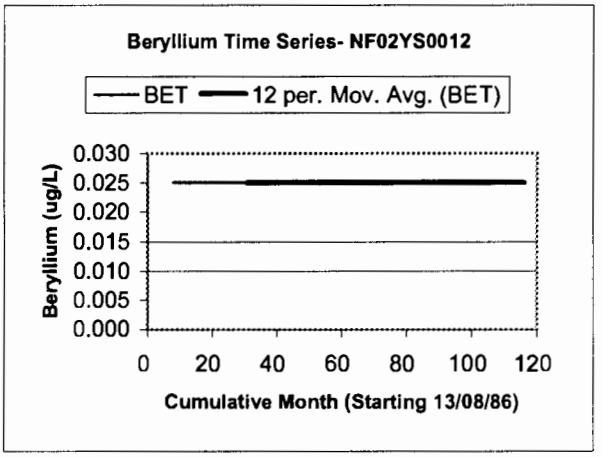

Copper Time Series- NF02YS0012
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

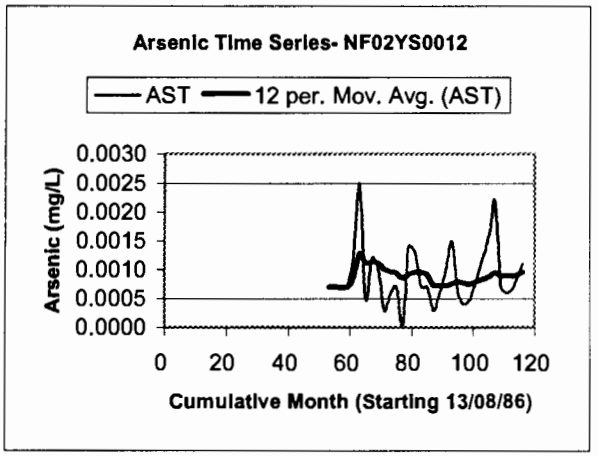

Lithium Time Series- NF02YS0012
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

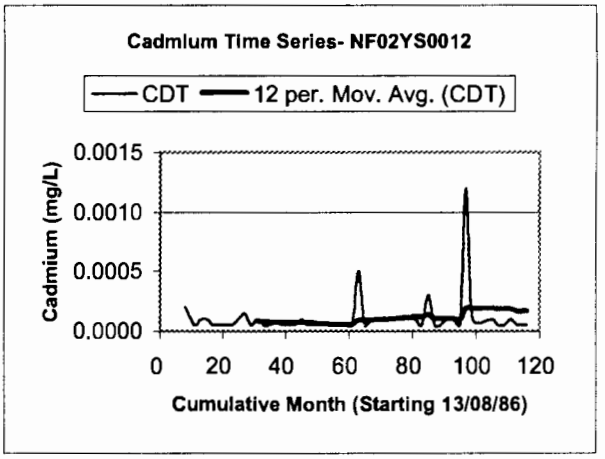

Iron Time Series- NF02YS0012
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

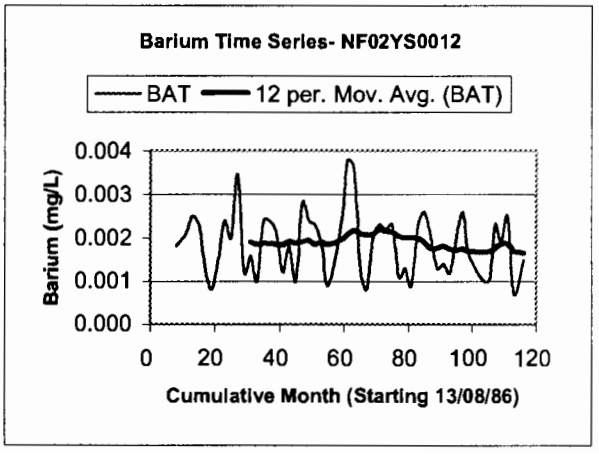

Manganese Time Series- NF02YS0012
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

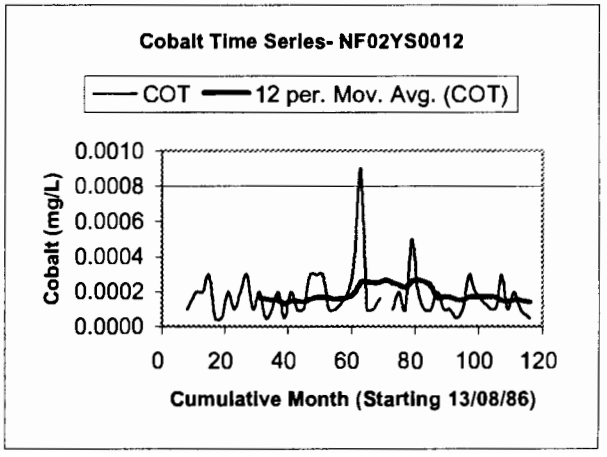

Aluminium Time Series- NF02YS0012
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

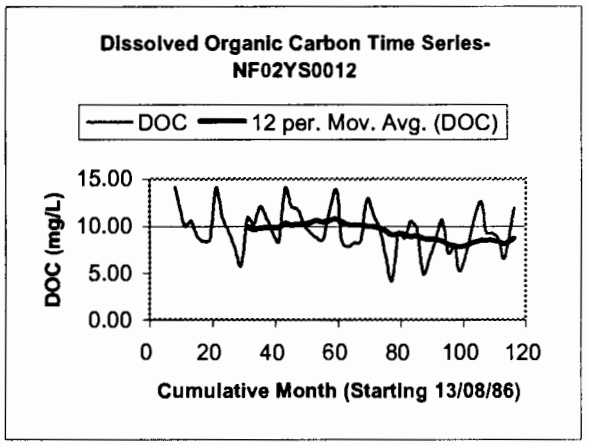

Beryllium Time Series- NF02YS0012
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

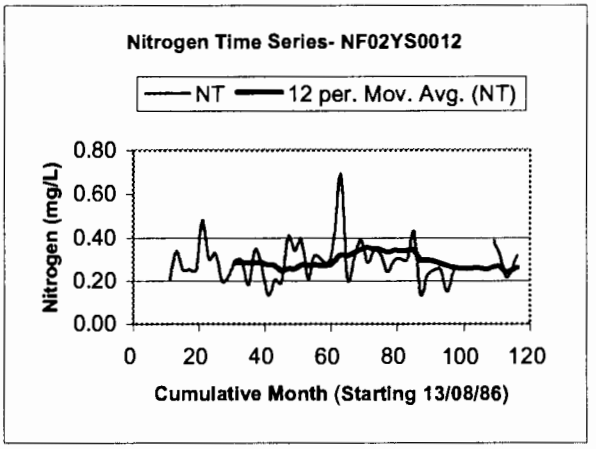

Arsenic Time Series- NF02YS0012
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

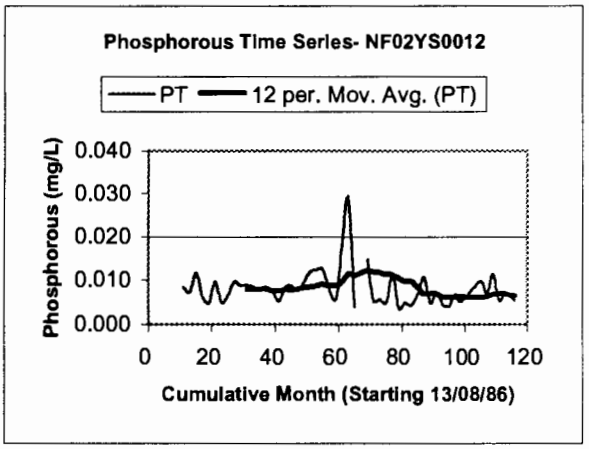

Cadmium Time Series- NF02YS0012
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

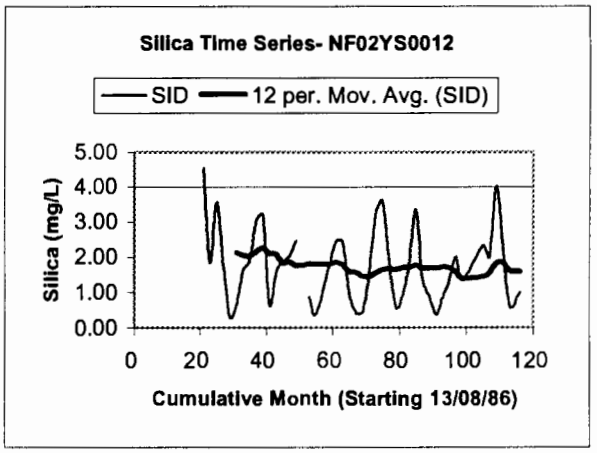

Barium Time Series- NF02YS0012
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

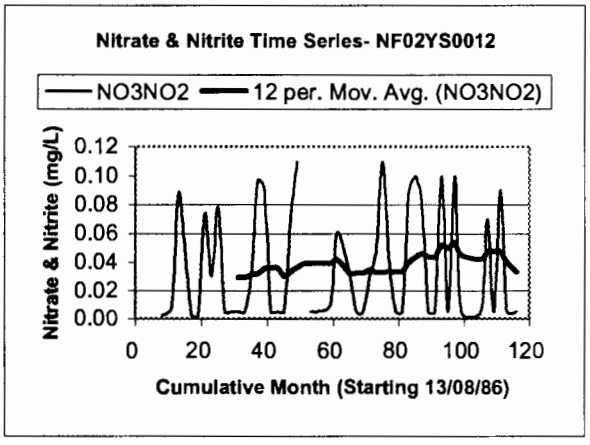

Cobalt Time Series- NF02YS0012
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

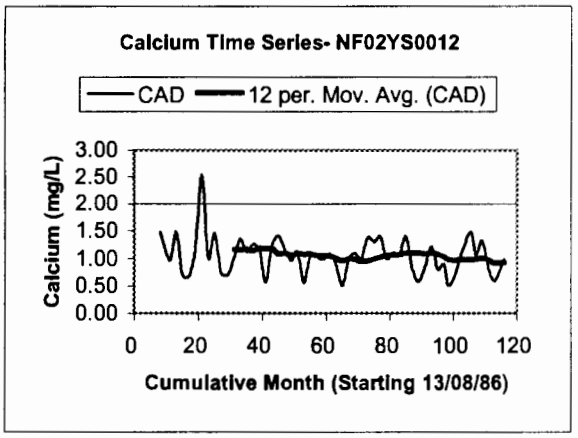

Dissolved Organic Carbon Time Series- NF02YS0012
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

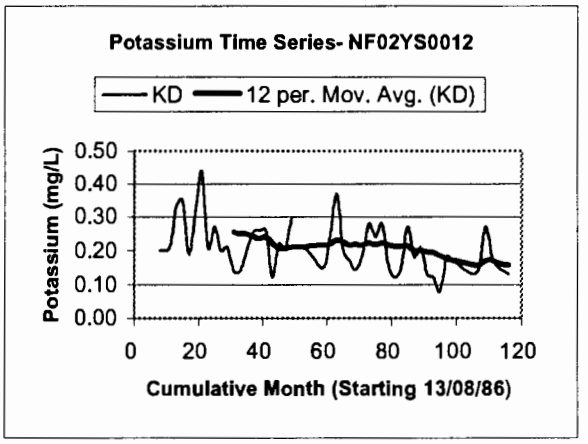

Nitrogen Time Series- NF02YS0012
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

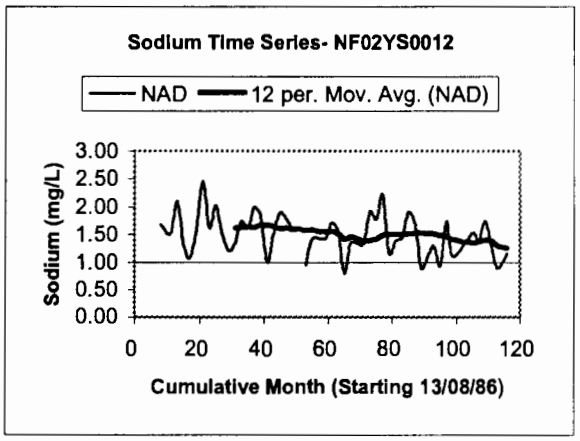

Phosphorous Time Series- NF02YS0012
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.030
0.020
0.010
0.000
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

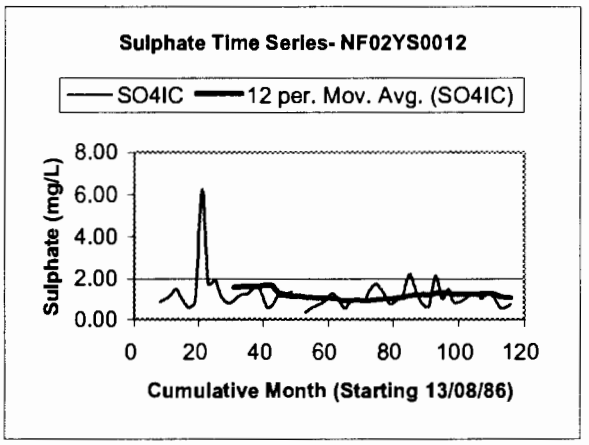

Silica Time Series- NF02YS0012
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

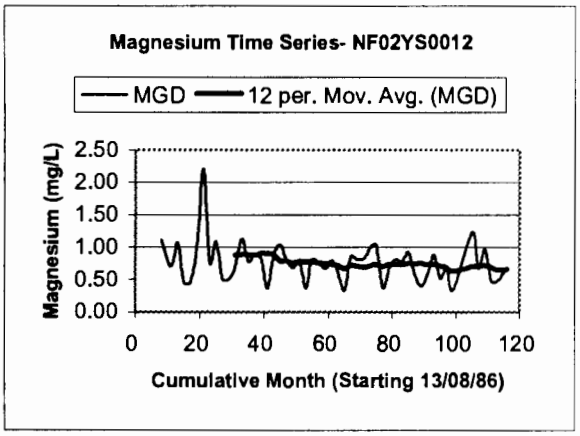

Nitrate & Nitrite Time Series- NF02YS0012
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 13/08/86)

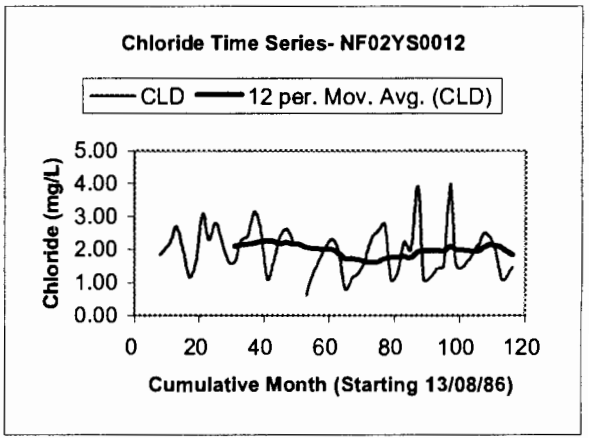

Calcium Time Series- NF02YS0012
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)


Potassium Time Series- NF02YS0012
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

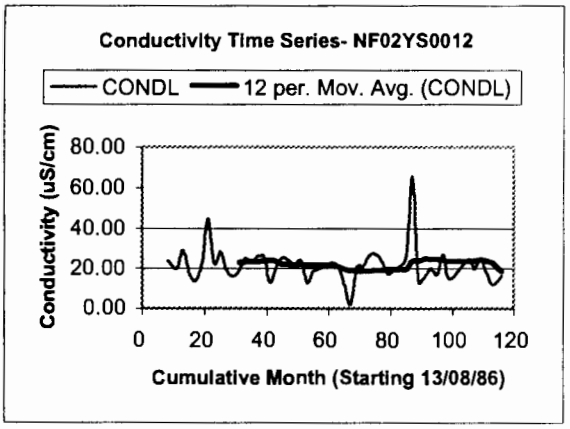

Sodium Time Series- NF02YS0012
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

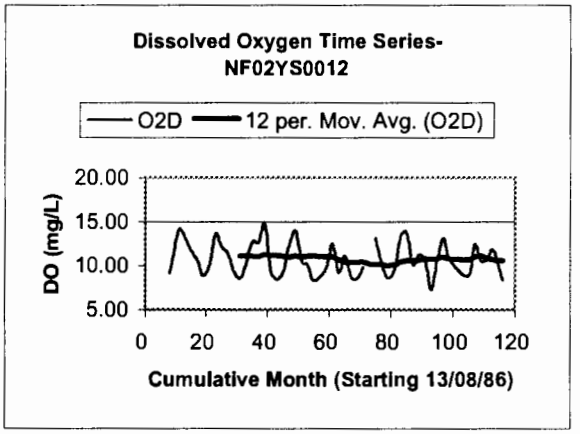

Sulphate Time Series- NF02YS0012
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

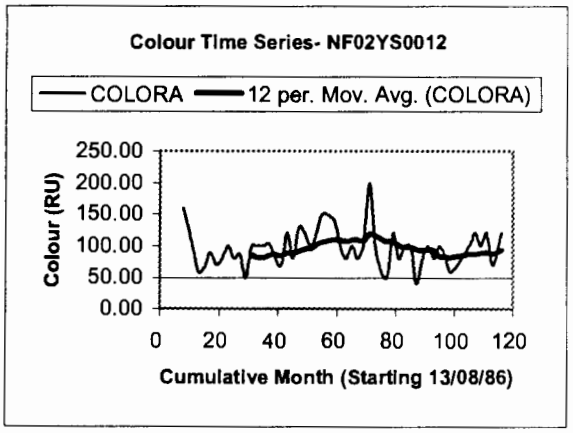

Magnesium Time Series- NF02YS0012
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

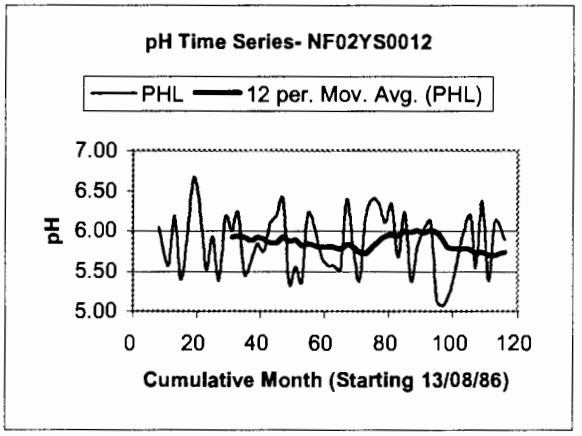

Chloride Time Series- NF02YS0012
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 13/08/86)

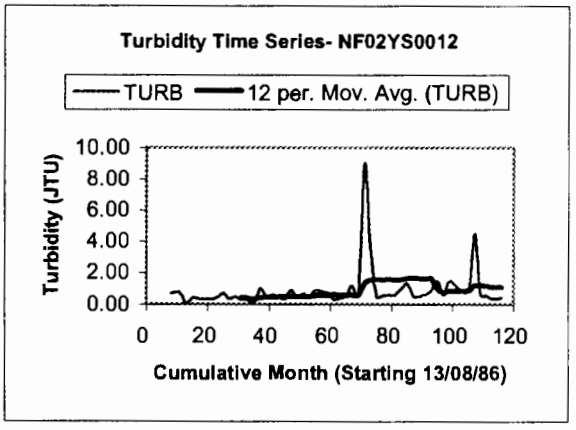
Time Series Plots of Terra Nova River (@ Newtown Lake)- NF02YS0012

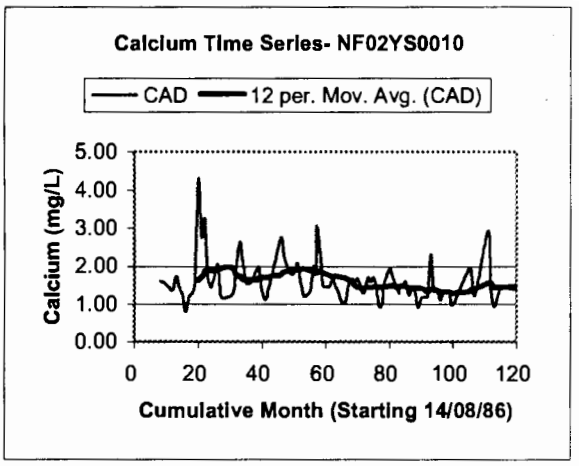


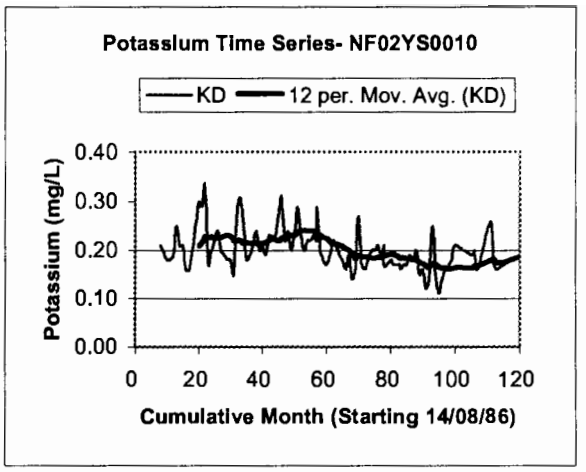


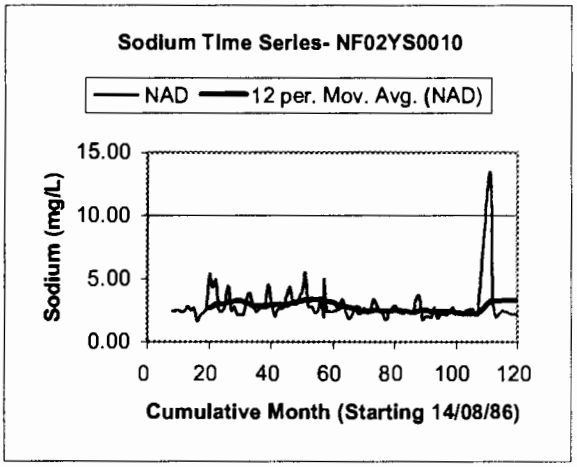


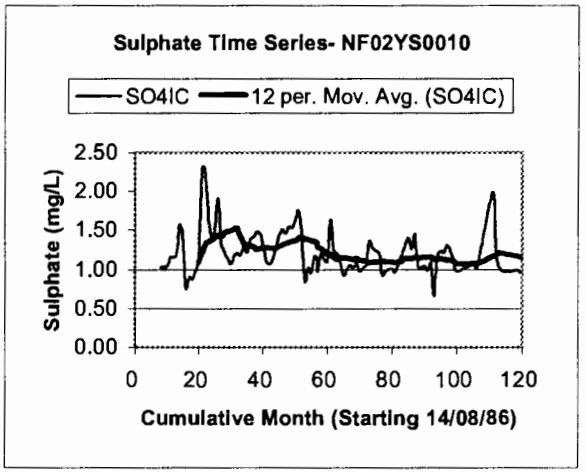


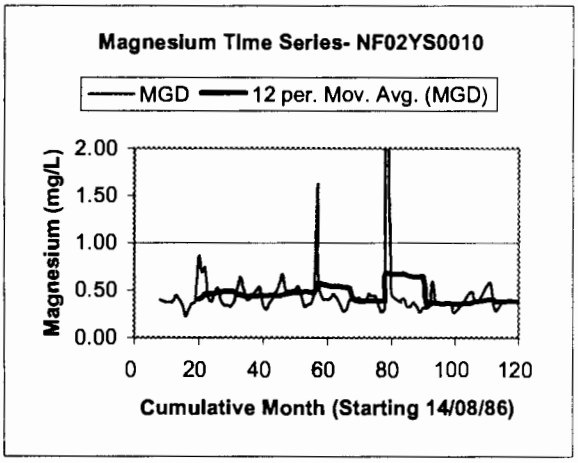


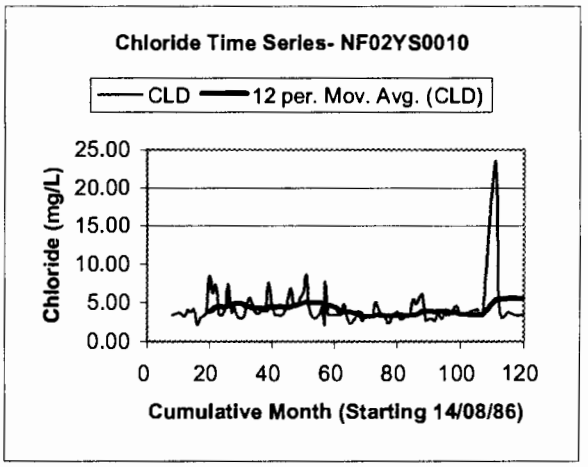

Calcium Time Series- NF02YS0010
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

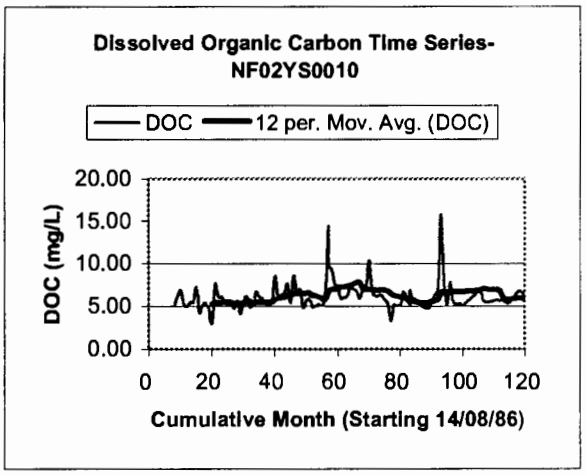

Potassium Time Series- NF02YS0010
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

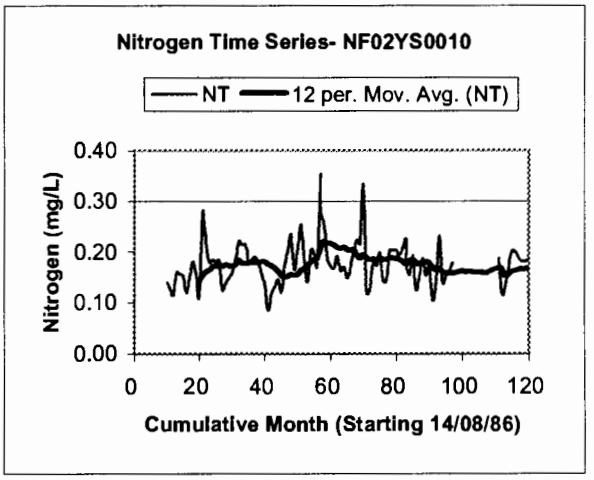

Sodium Time Series- NF02YS0010
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
15.00
10.00
5.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

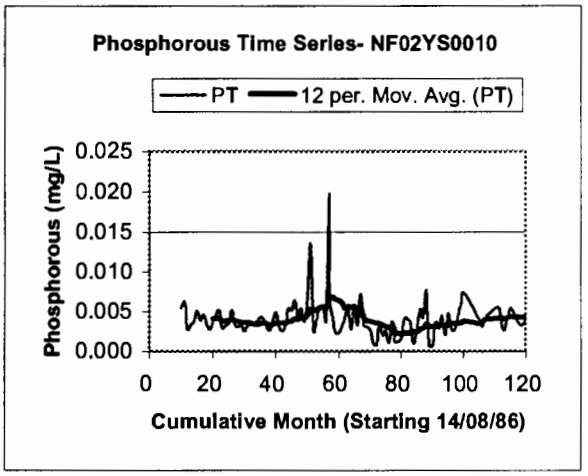

Sulphate Time Series- NF02YS0010
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

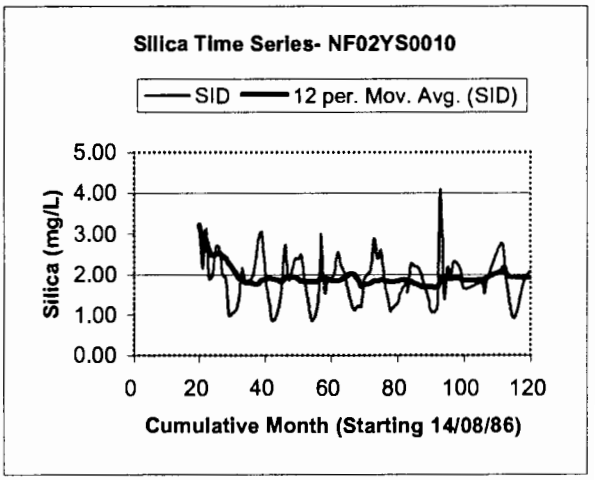

Magnesium Time Series- NF02YS0010
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

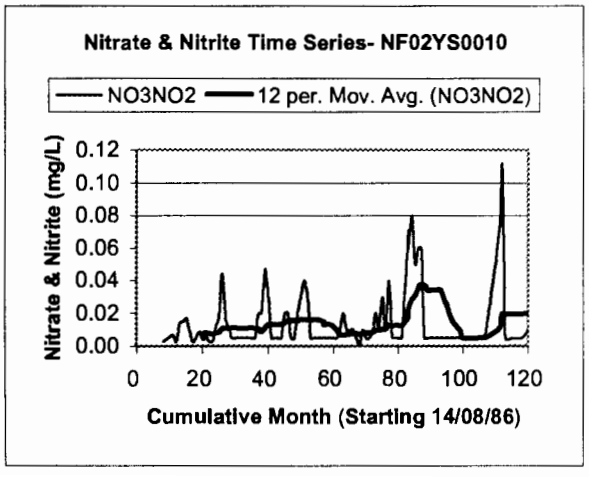

Chloride Time Series- NF02YS0010
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

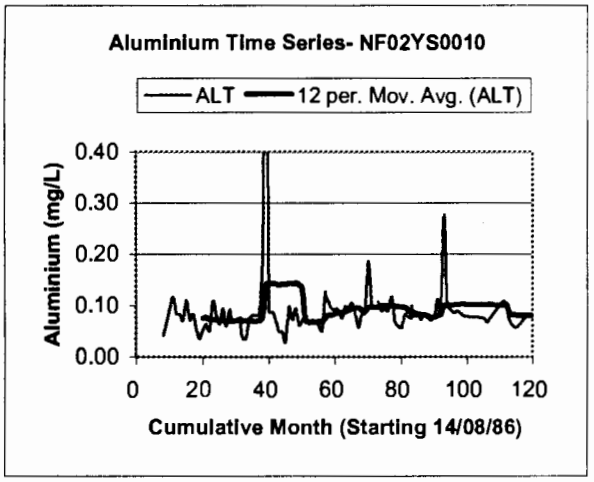

Dissolved Organic Carbon Time Series- NF02YS0010
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

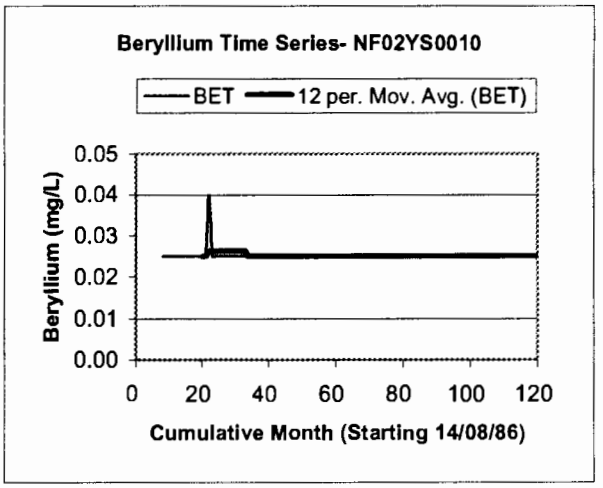

Nitrogen Time Series- NF02YS0010
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

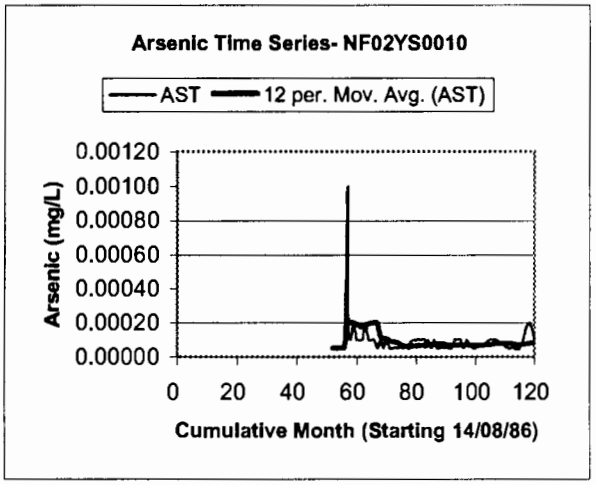

Phosphorous Time Series- NF02YS0010
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

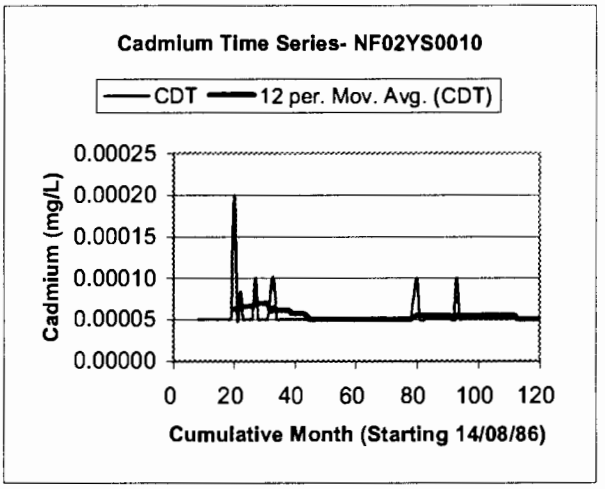

Silica Time Series- NF02YS0010
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

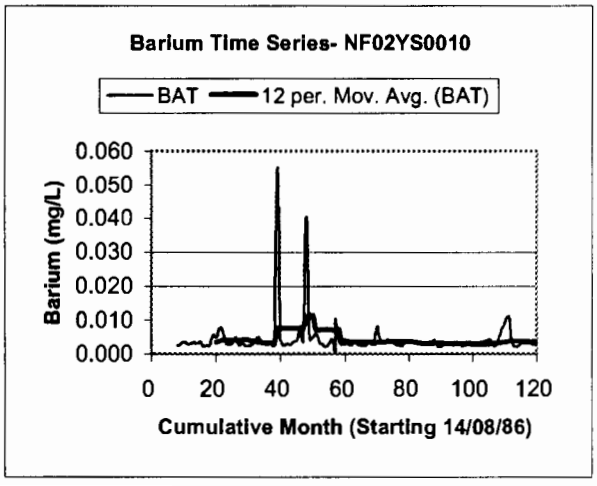

Nitrate & Nitrite Time Series- NF02YS0010
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

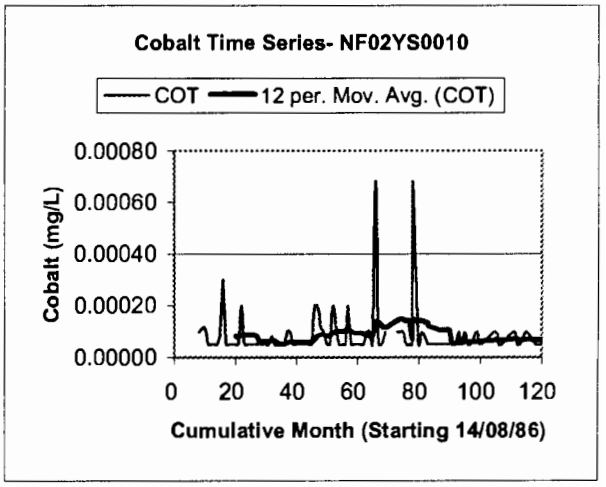

Aluminium Time Series- NF02YS0010
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

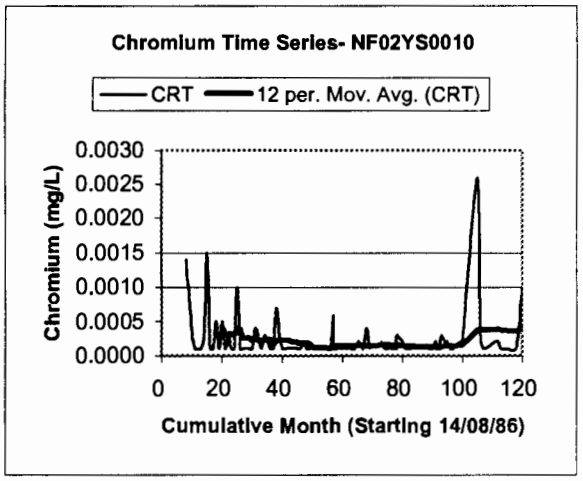

Beryllium Time Series- NF02YS0010
BET
12 per. Mov. Avg. (BET)
Beryllium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

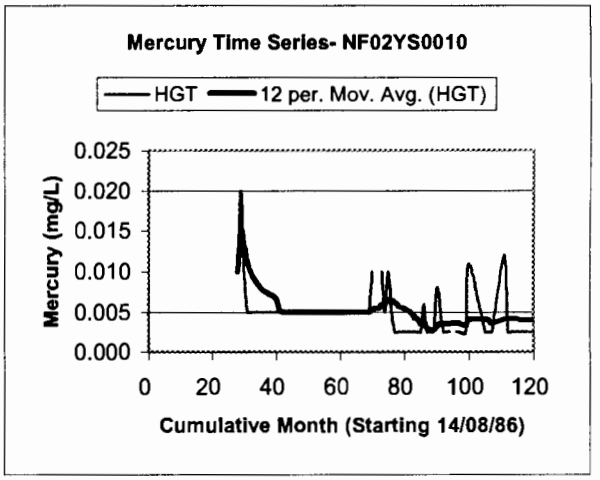

Arsenic Time Series- NF02YS0010
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00120
0.00100
0.00080
0.00060
0.00040
0.00020
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

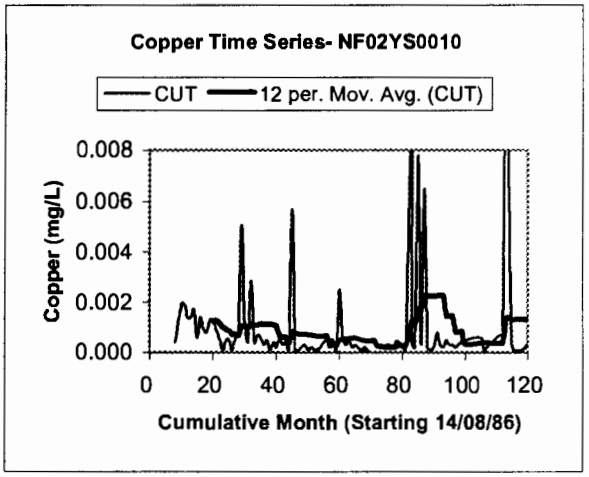

Cadmium Time Series- NF02YS0010
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

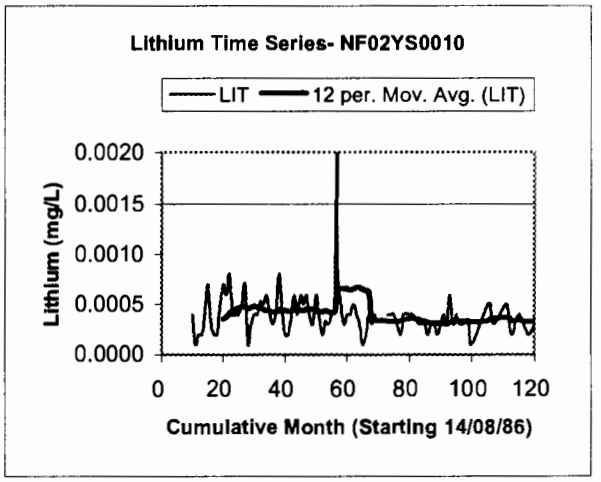

Barium Time Series- NF02YS0010
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.060
0.050
0.040
0.030
0.020
0.010
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

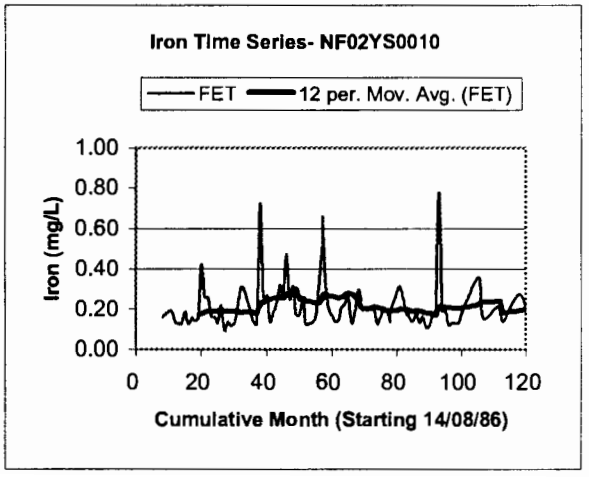

Cobalt Time Series- NF02YS0010
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00080
0.00060
0.00040
0.00020
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

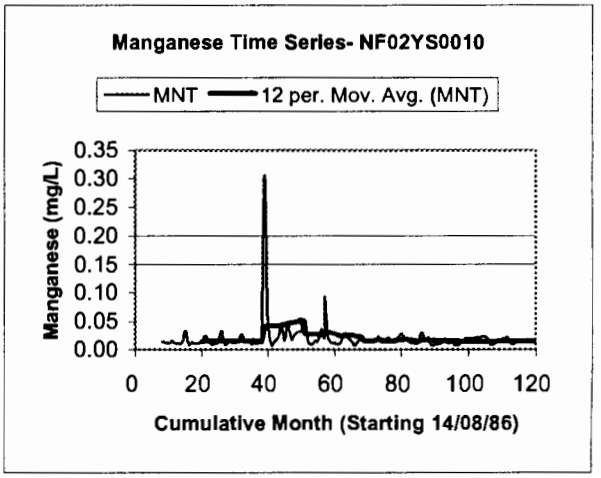

Chromium Time Series- NF02YS0010
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

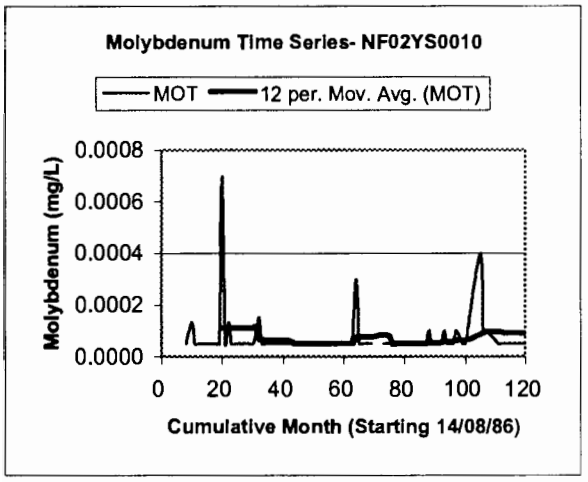

Mercury Time Series- NF02YS0010
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

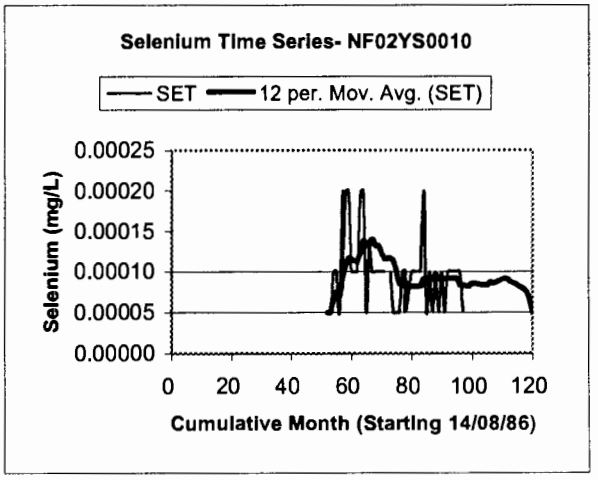

Copper Time Series- NF02YS0010
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

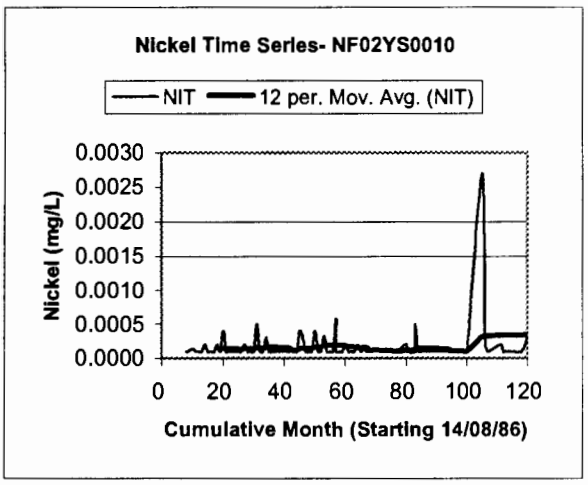

Lithium Time Series- NF02YS0010
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

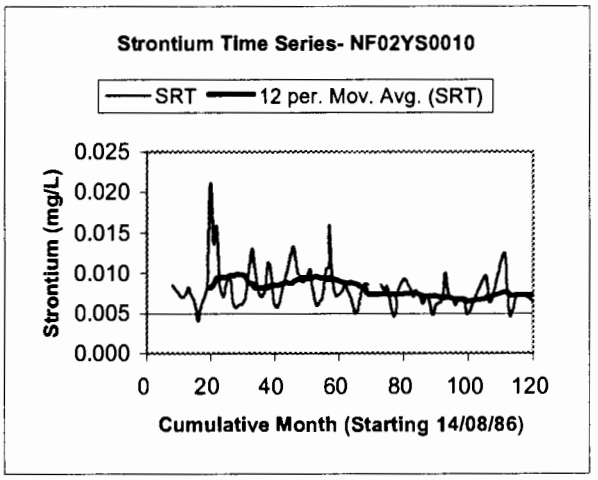

Iron Time Series- NF02YS0010
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

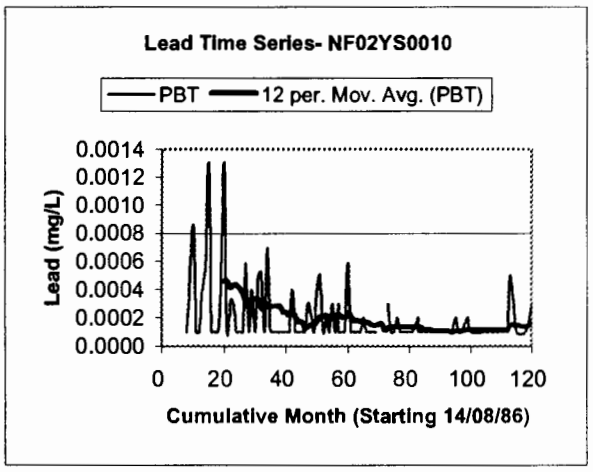

Manganese Time Series- NF02YS0010
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

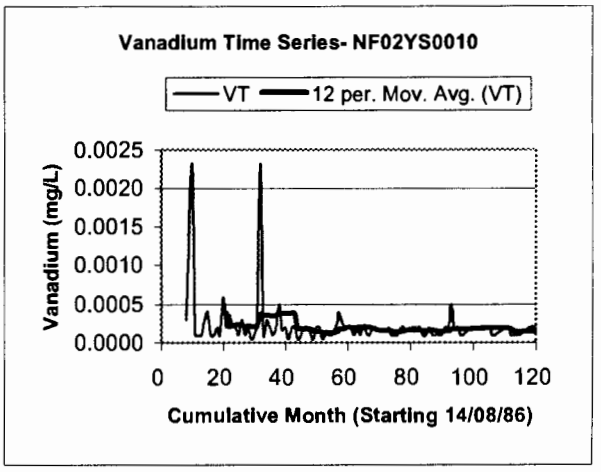

Molybdenum Time Series- NF02YS0010
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

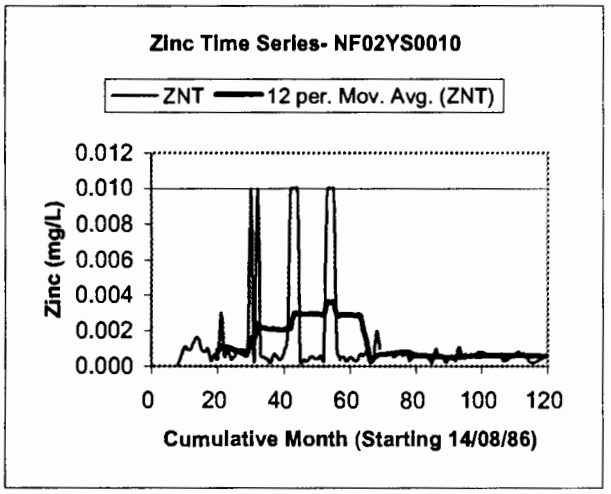

Selenium Time Series- NF02YS0010
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)


Nickel Time Series- NF02YS0010
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

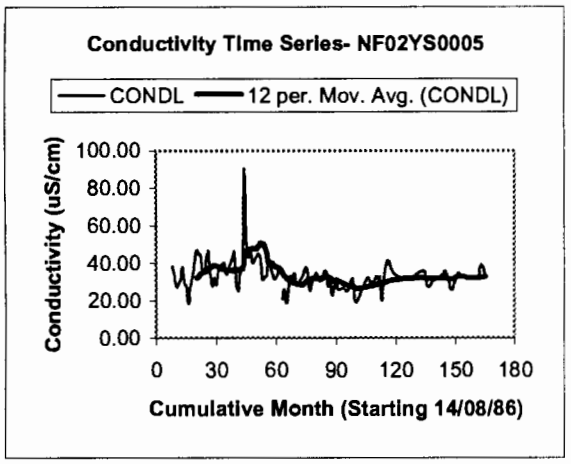

Strontium Time Series- NF02YS0010
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

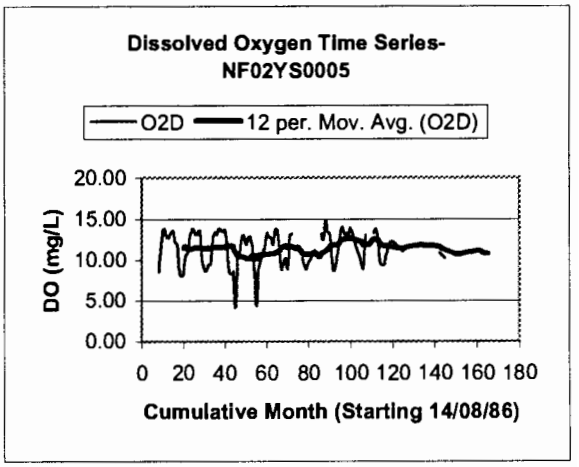

Lead Time Series- NF02YS0010
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

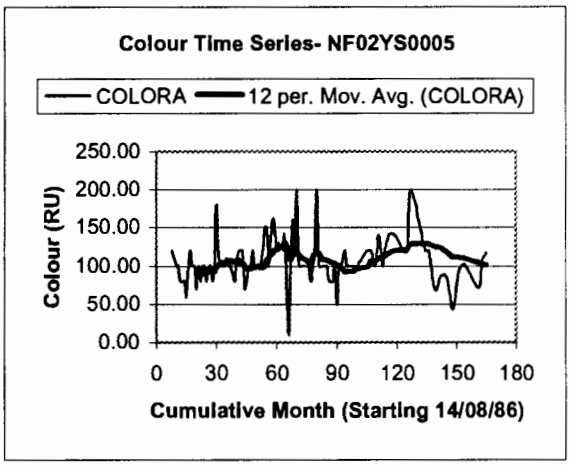

Vanadium Time Series- NF02YS0010
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120
Cumulative Month (Starting 14/08/86)

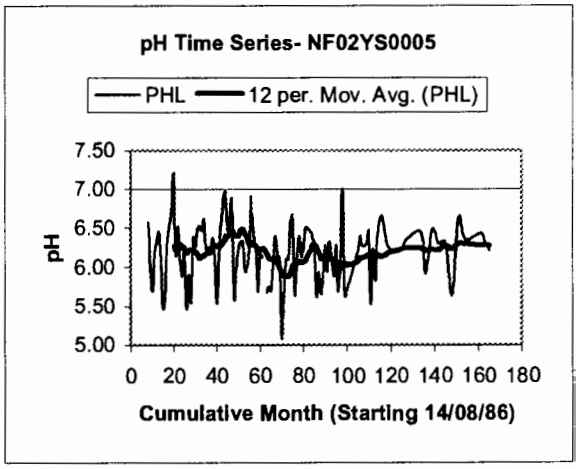

Zinc Time Series- NF02YS0010
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 14/08/86)

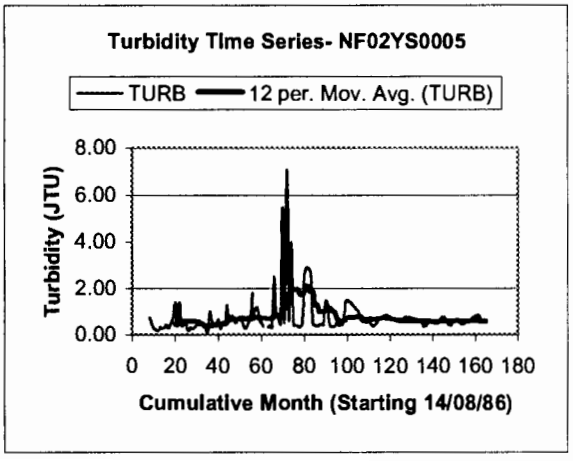
Time Series Plots of South West Brook (@ Terra Nova National Park)- NF02YS0005

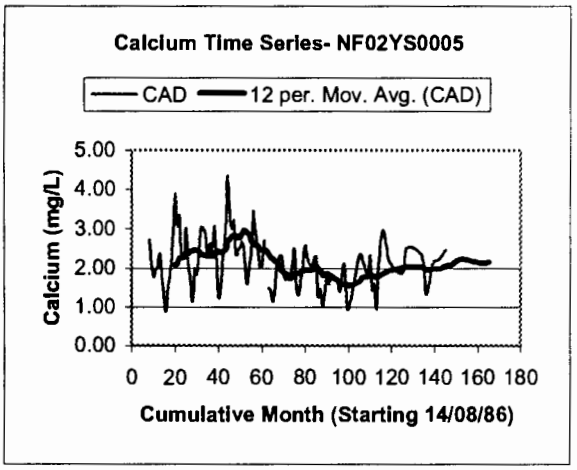


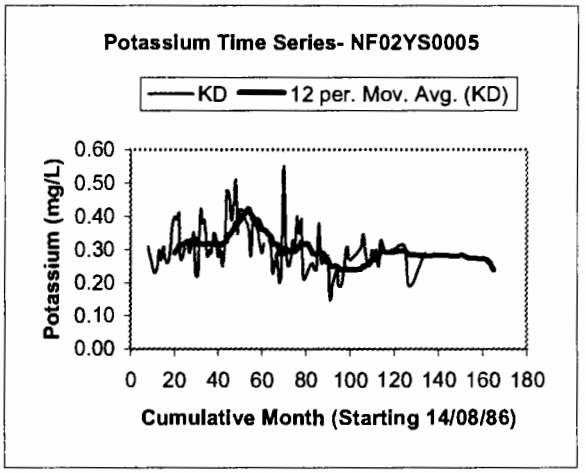


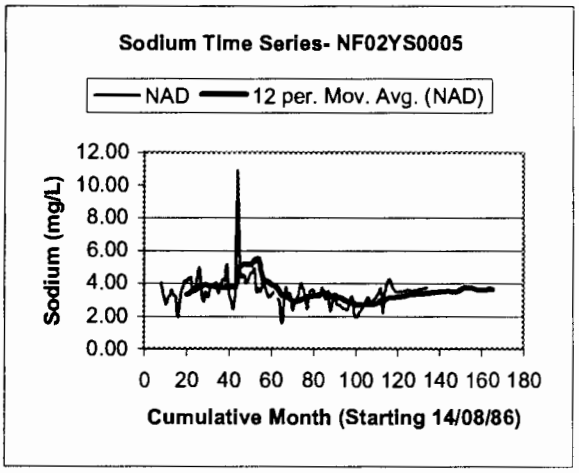


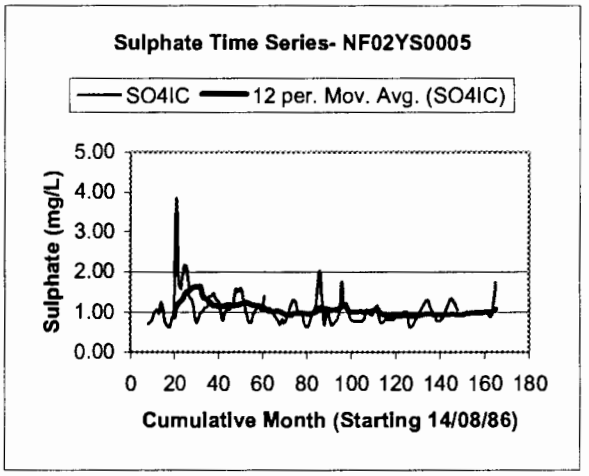


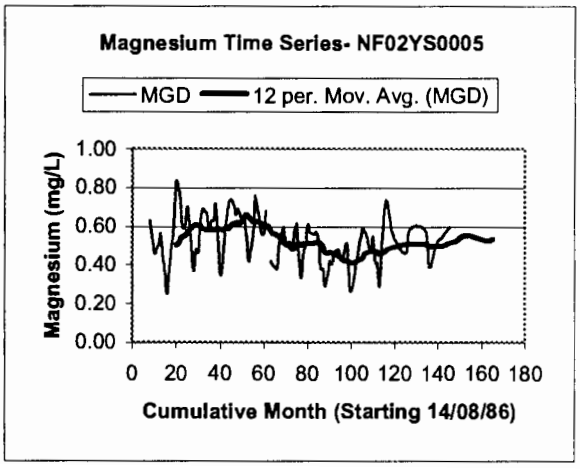


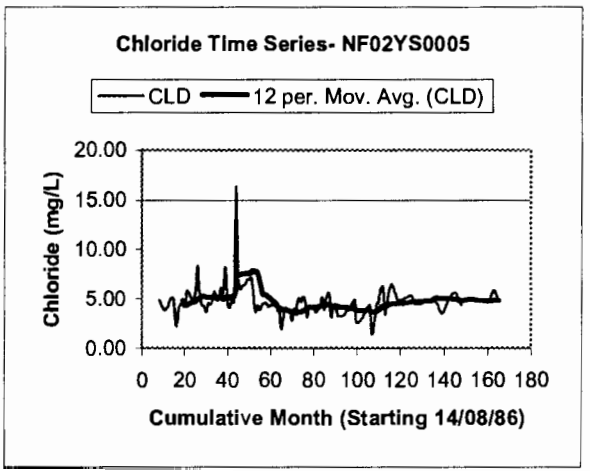

Calcium Time Series- NF02YS0005
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

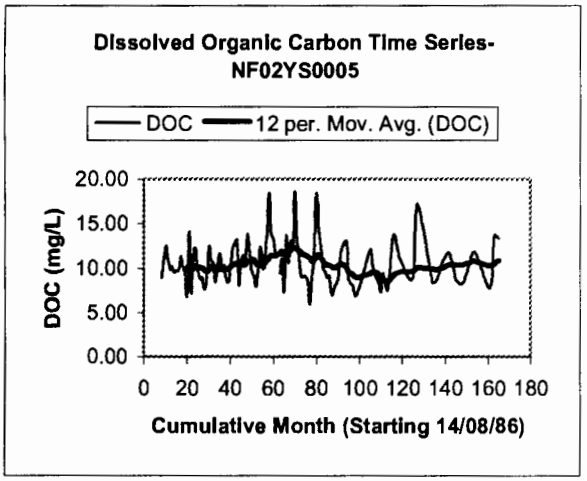

Potassium Time Series- NF02YS0005
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

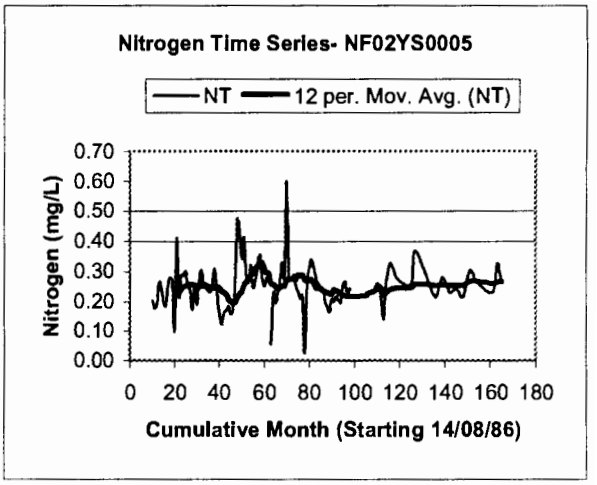

Sodium Time Series- NF02YS0005
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

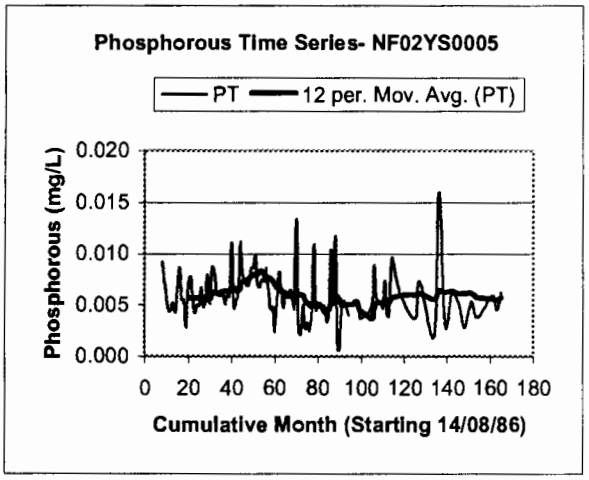

Sulphate Time Series- NF02YS0005
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

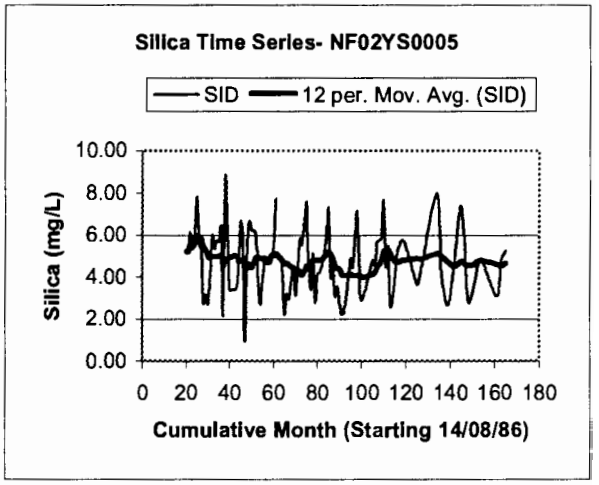

Magnesium Time Series- NF02YS0005
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

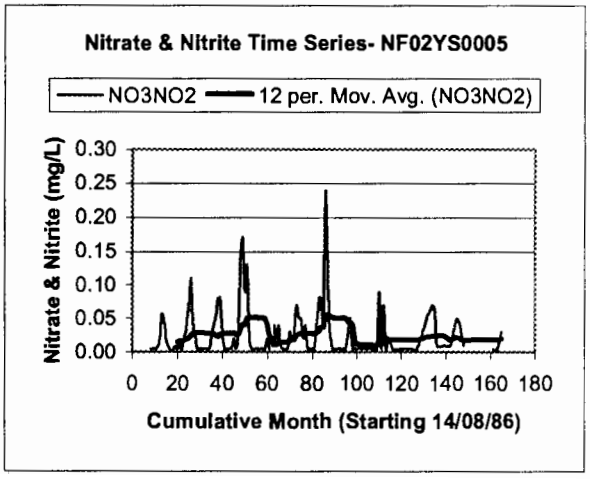

Chloride Time Series- NF02YS0005
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

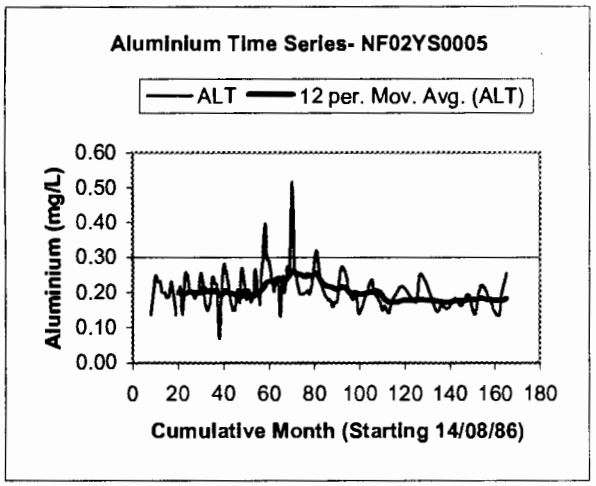

Dissolved Organic Carbon Time Series- NF02YS0005
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

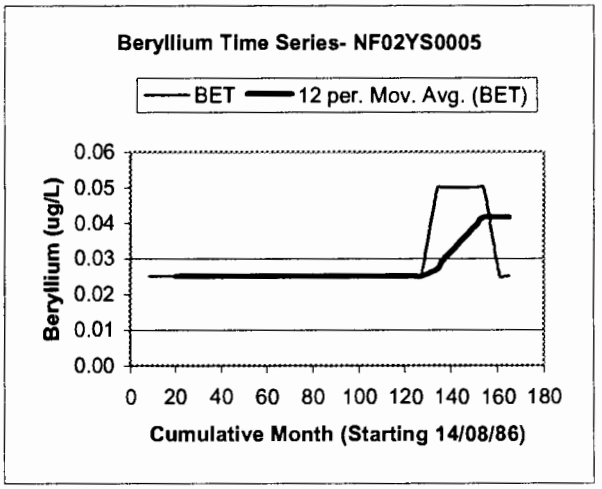

Nitrogen Time Series- NF02YS0005
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

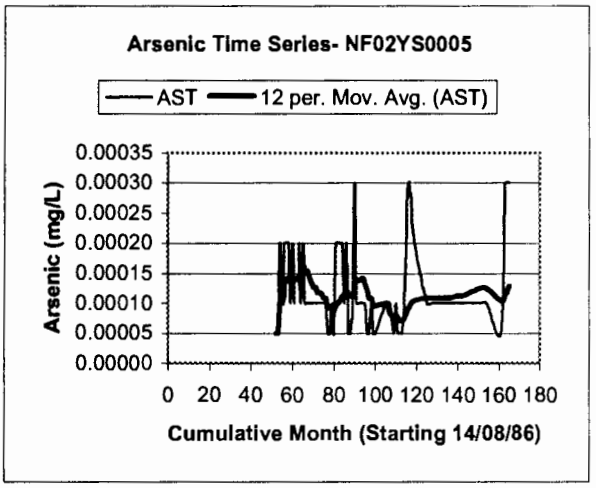

Phosphorous Time Series- NF02YS0005
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

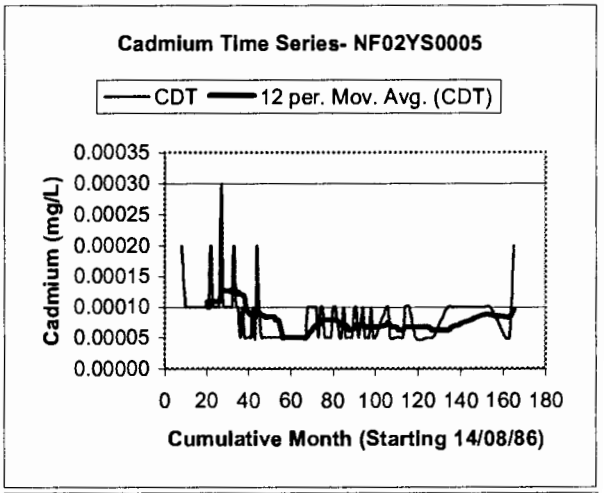

Silica Time Series- NF02YS0005
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

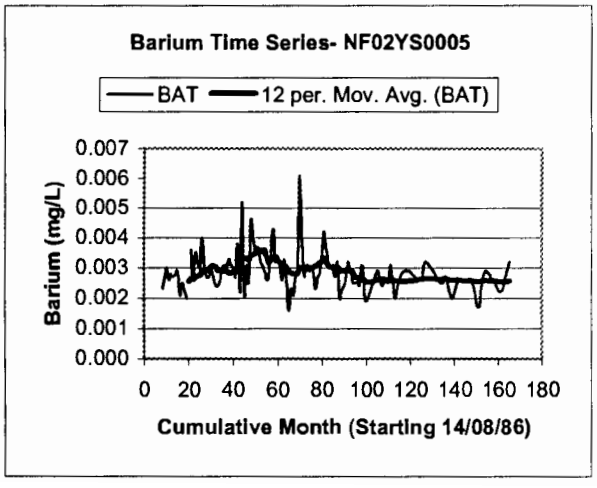

Nitrate & Nitrite Time Series- NF02YS0005
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

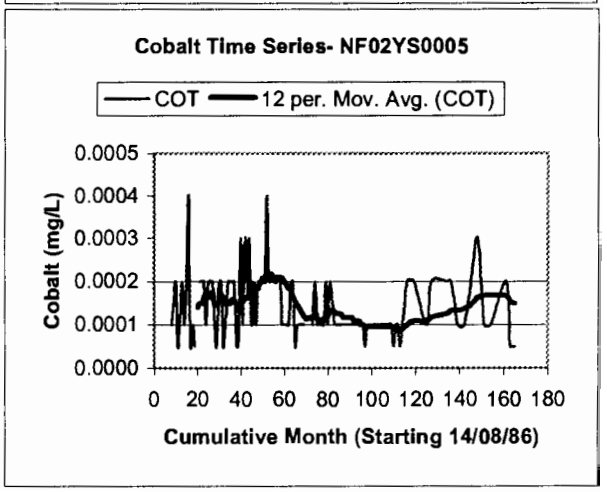

Aluminium Time Series- NF02YS0005
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

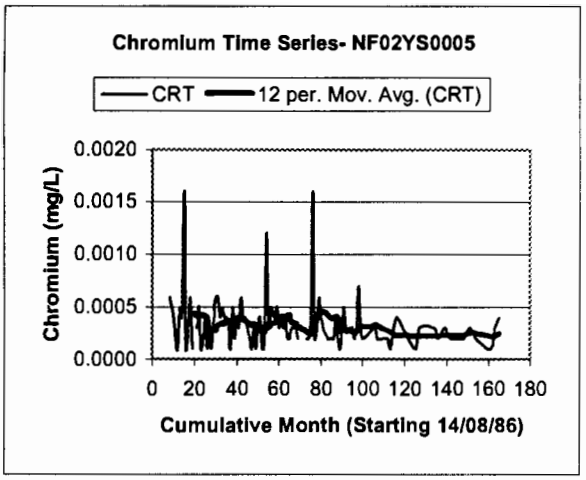

Beryllium Time Series- NF02YS0005
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

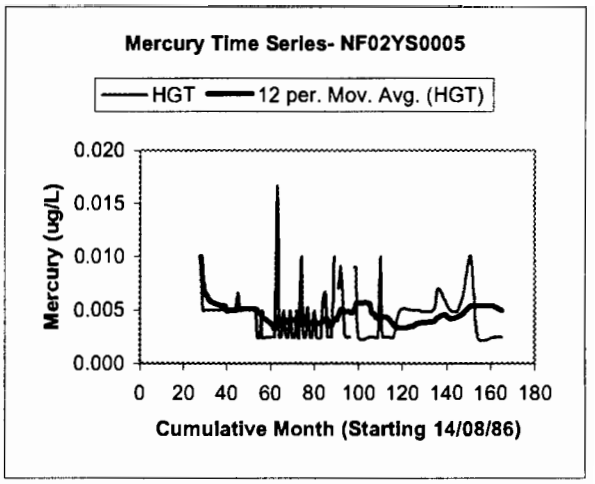

Arsenic Time Series- NF02YS0005
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

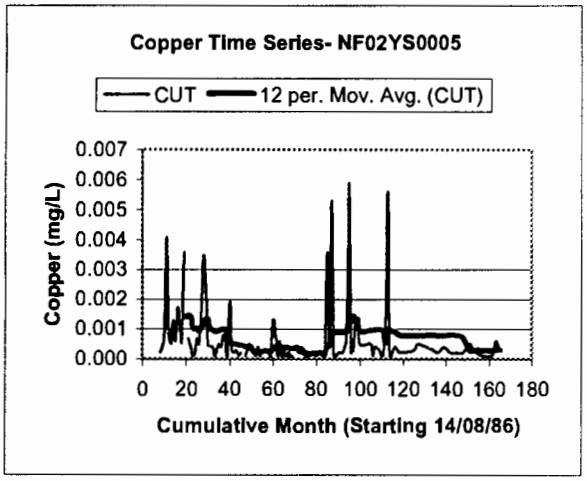

Cadmium Time Series- NF02YS0005
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

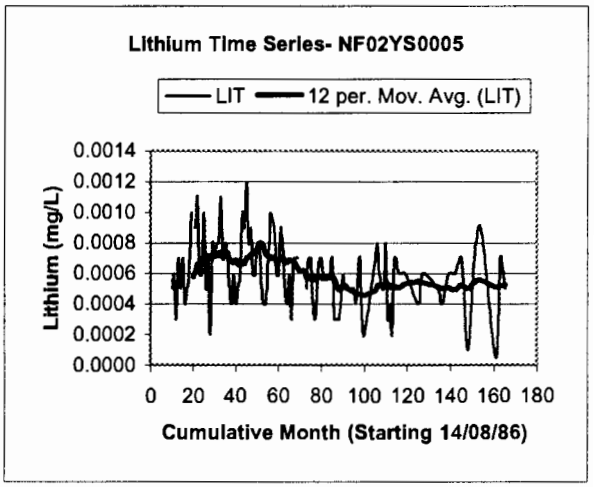

Barium Time Series- NF02YS0005
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

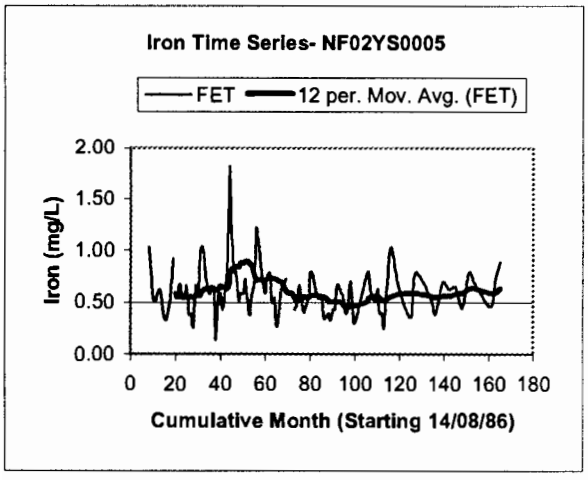

Cobalt Time Series- NF02YS0005
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

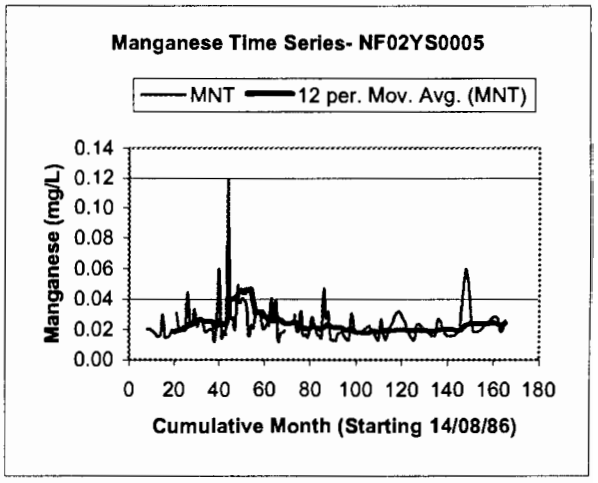

Chromium Time Series- NF02YS0005
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

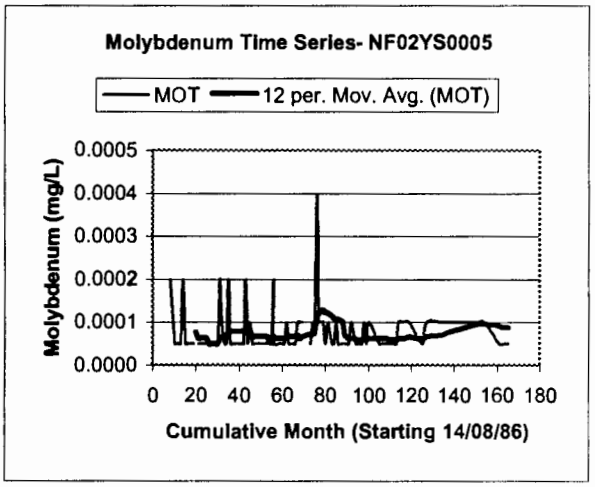

Mercury Time Series- NF02YS0005
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

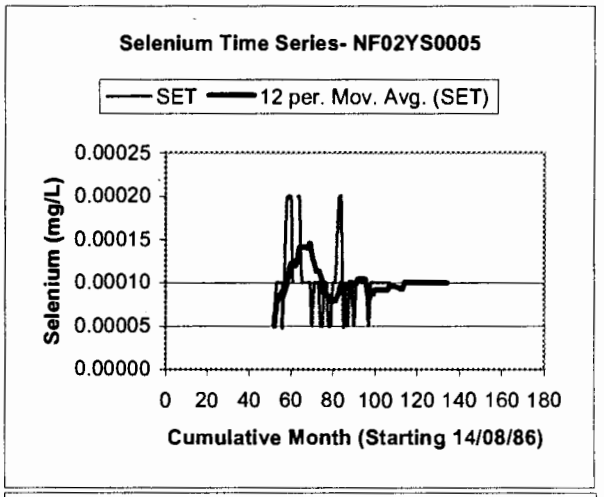

Copper Time Series- NF02YS0005
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

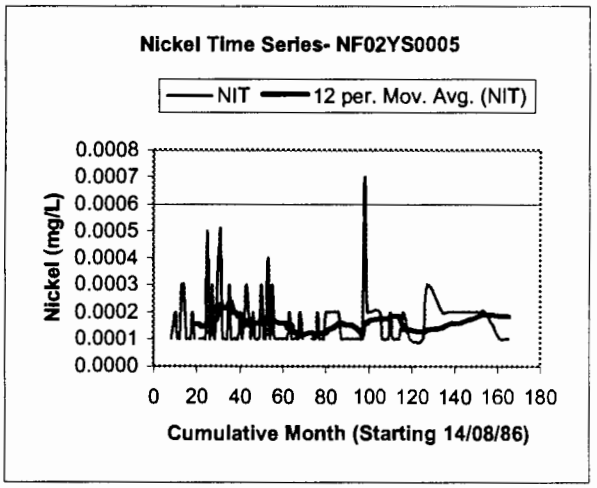

Lithium Time Series- NF02YS0005
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

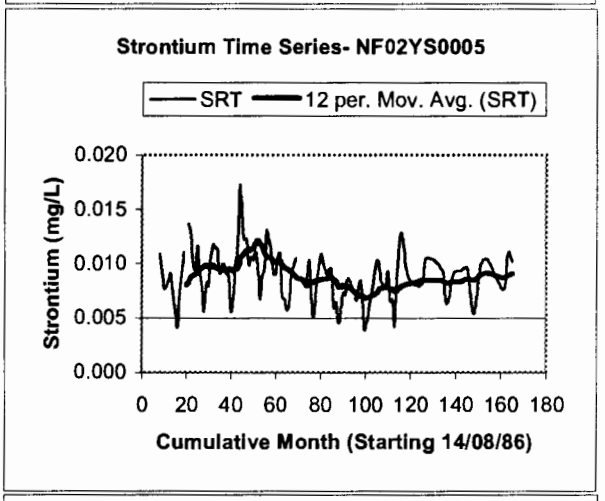

Iron Time Series- NF02YS0005
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

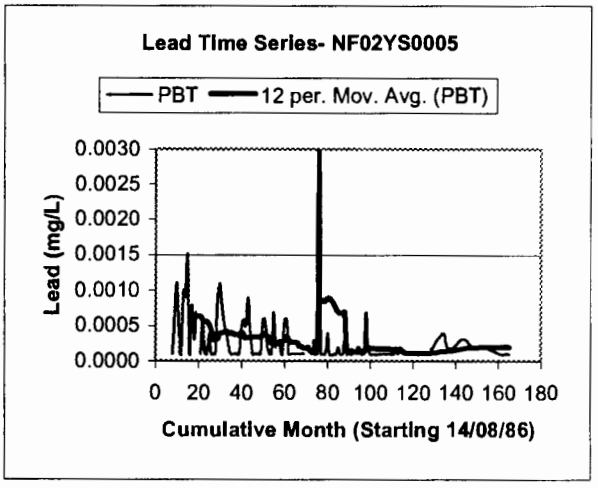

Manganese Time Series- NF02YS0005
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

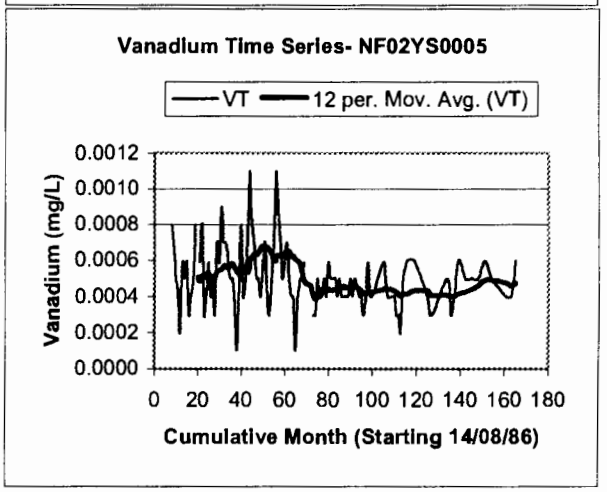

Molybdenum Time Series- NF02YS0005
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

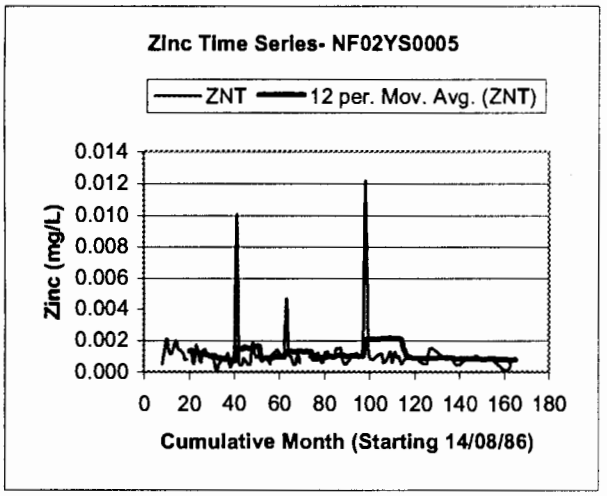

Selenium Time Series- NF02YS0005
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)


Nickel Time Series- NF02YS0005
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

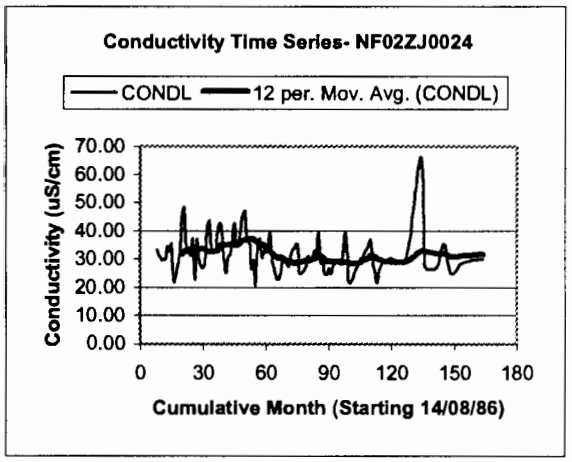

Strontium Time Series- NF02YS0005
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

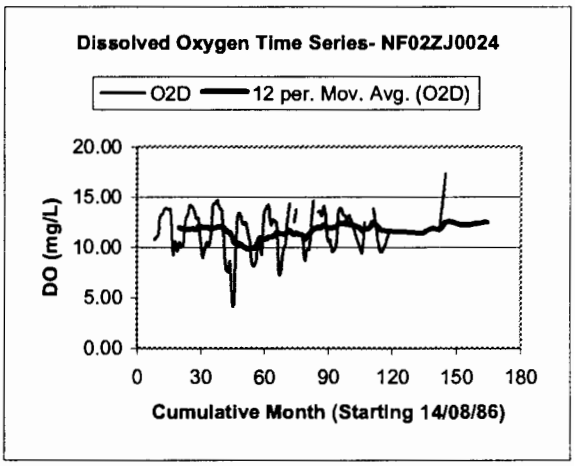

Lead Time Series- NF02YS0005
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

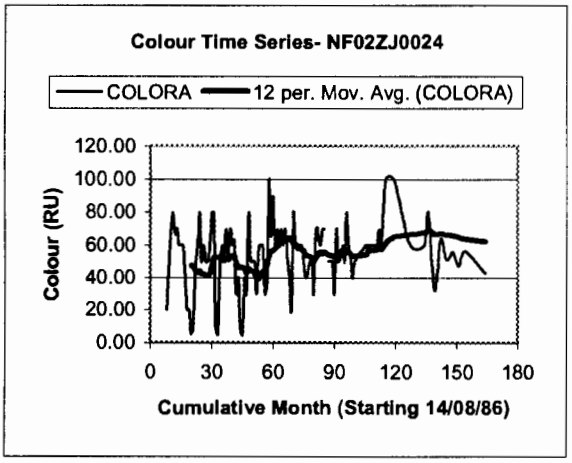

Vanadium Time Series- NF02YS0005
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

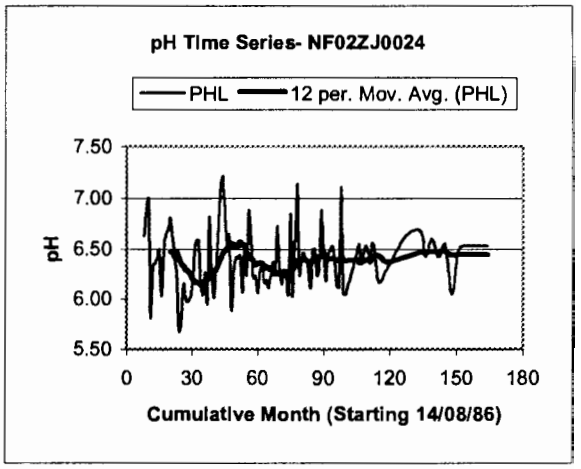

Zinc Time Series- NF02YS0005
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140 160 180
Cumulative Month (Starting 14/08/86)

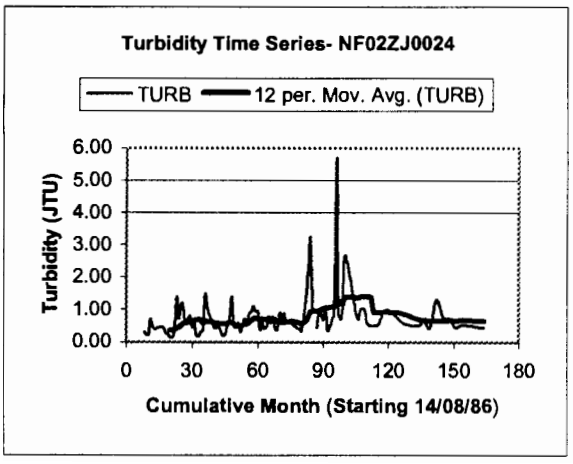
Time Series Plots of Southern Bay River- NF02ZJ0024

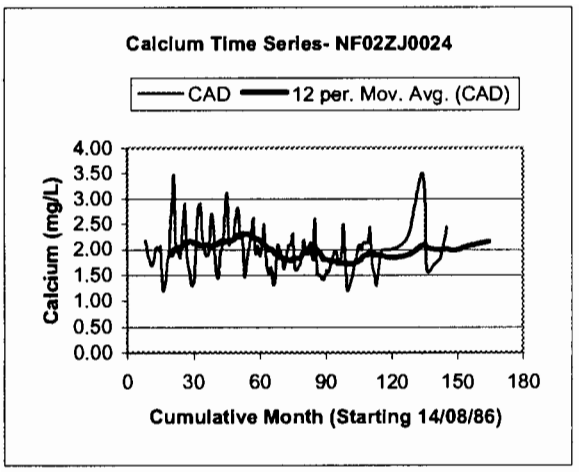


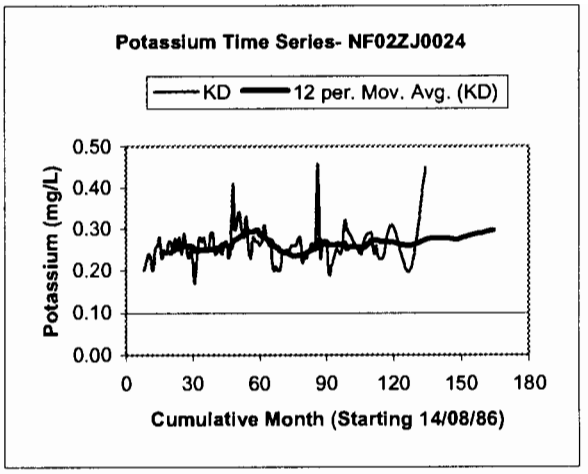


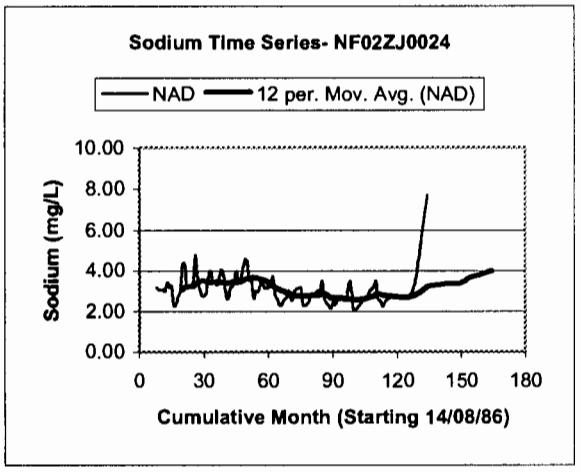


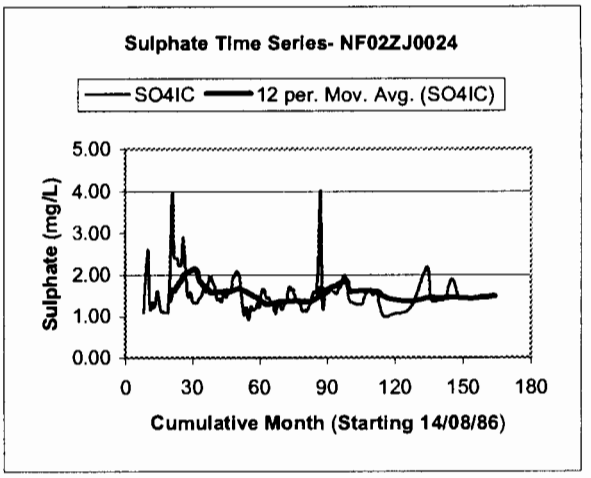


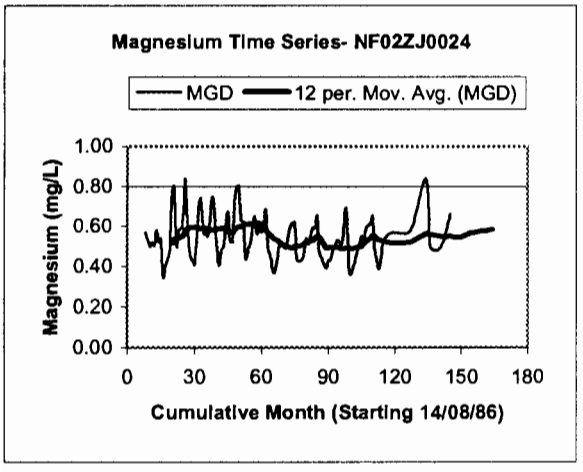


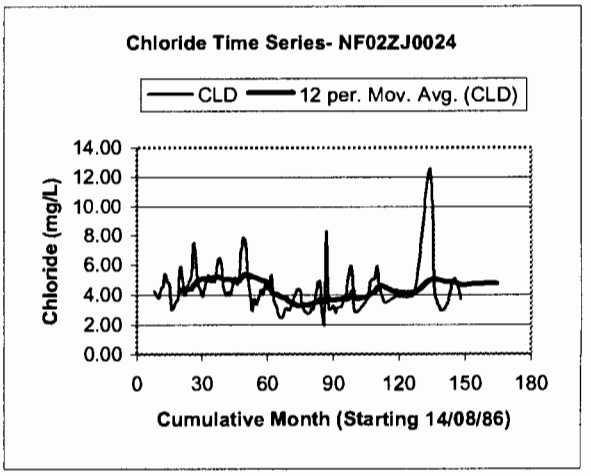

Calcium Time Series- NF02ZJ0024
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

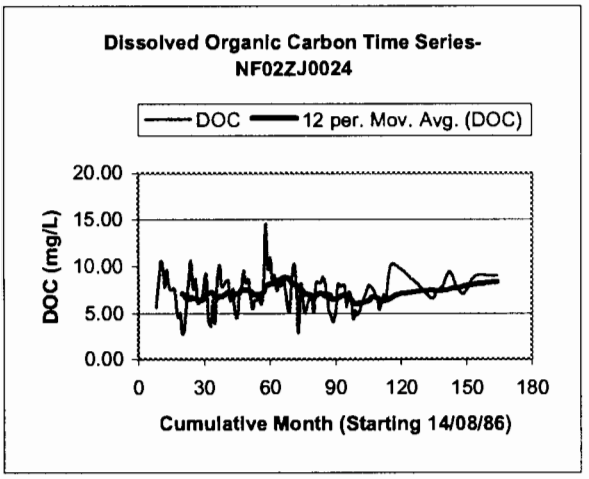

Potassium Time Series- NF02ZJ0024
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

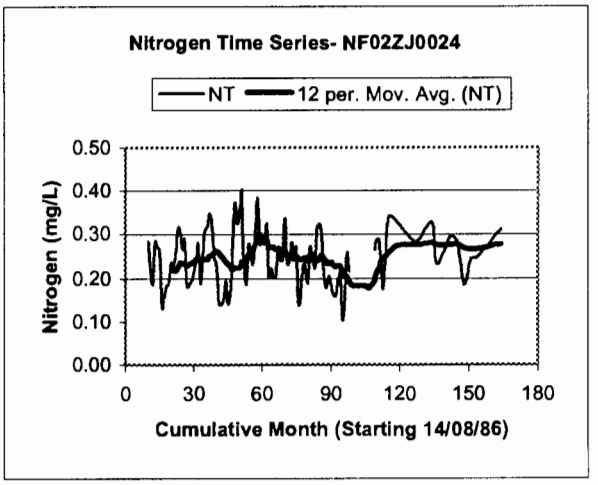

Sodium Time Series- NF02ZJ0024
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

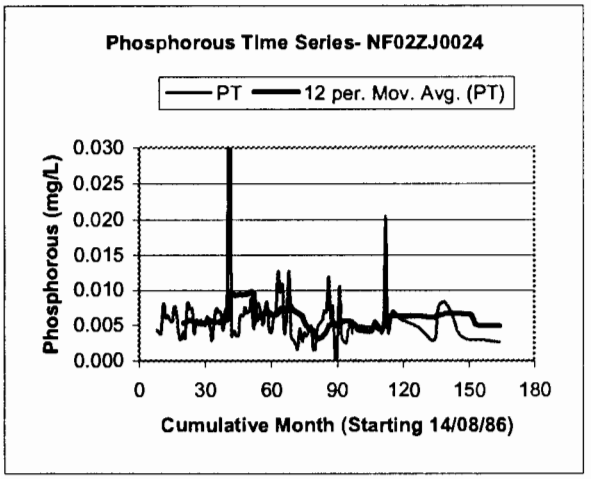

Sulphate Time Series- NF02ZJ0024
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

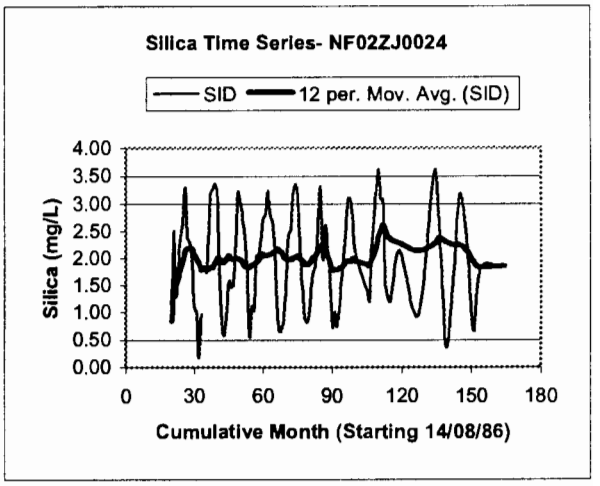

Magnesium Time Series- NF02ZJ0024
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

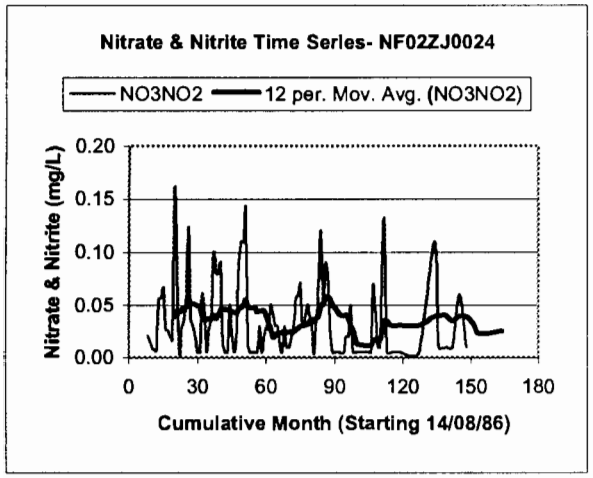

Chloride Time Series- NF02ZJ0024
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

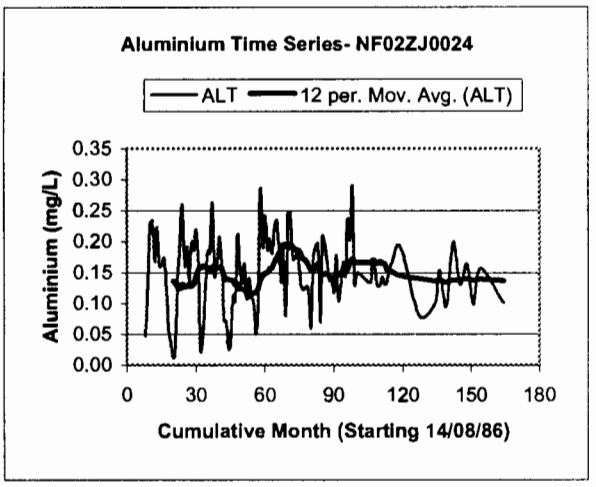

Dissolved Organic Carbon Time Series- NF02ZJ0024
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

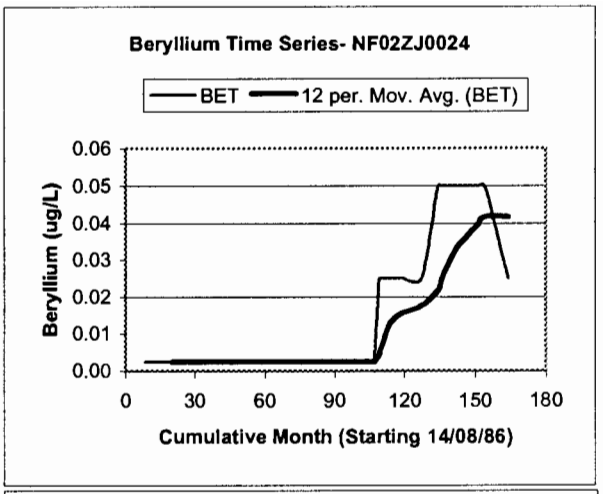

Nitrogen Time Series- NF02ZJ0024
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

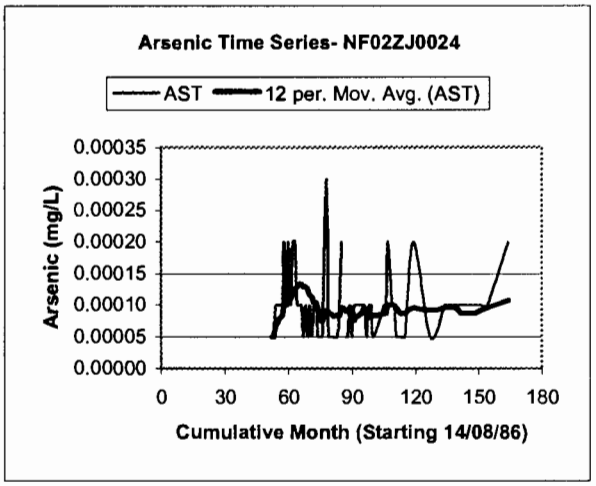

Phosphorous Time Series- NF02ZJ0024
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

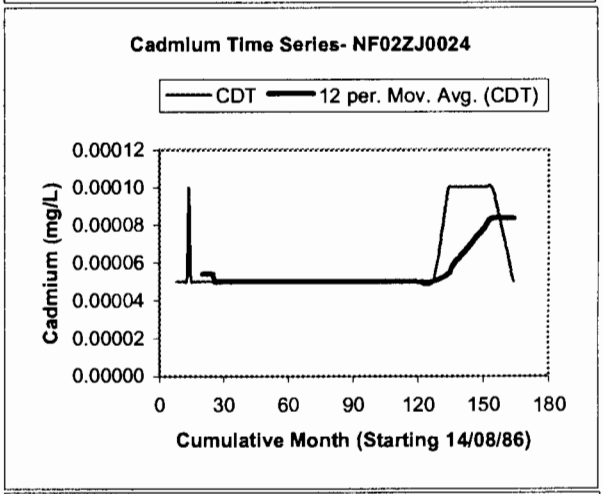

Silica Time Series- NF02ZJ0024
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

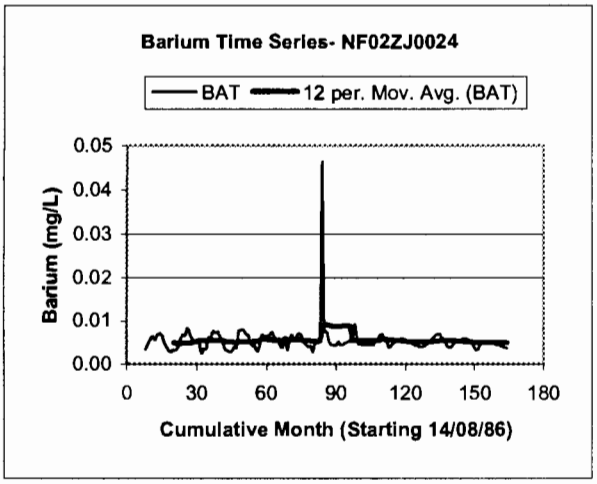

Nitrate & Nitrite Time Series- NF02ZJ0024
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

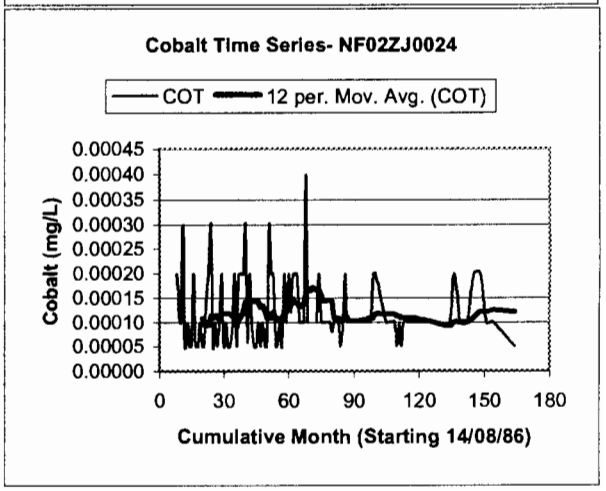

Aluminium Time Series- NF02ZJ0024
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

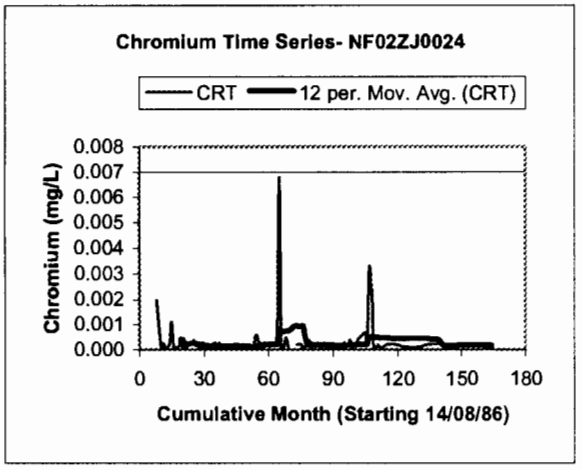

Beryllium Time Series- NF02ZJ0024
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

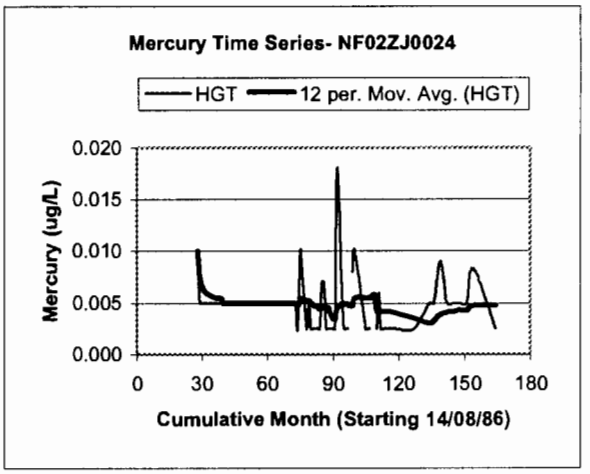

Arsenic Time Series- NF02ZJ0024
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

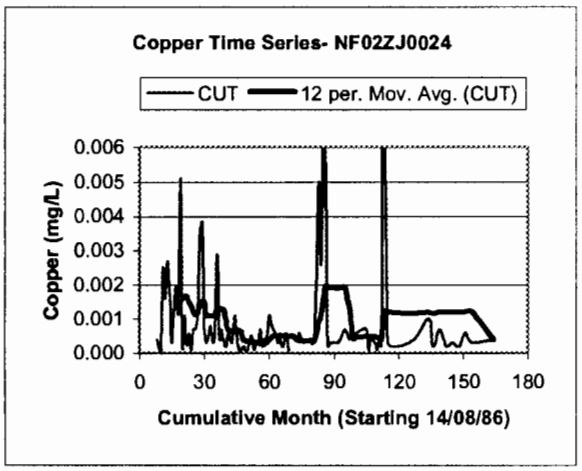

Cadmium Time Series- NF02ZJ0024
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

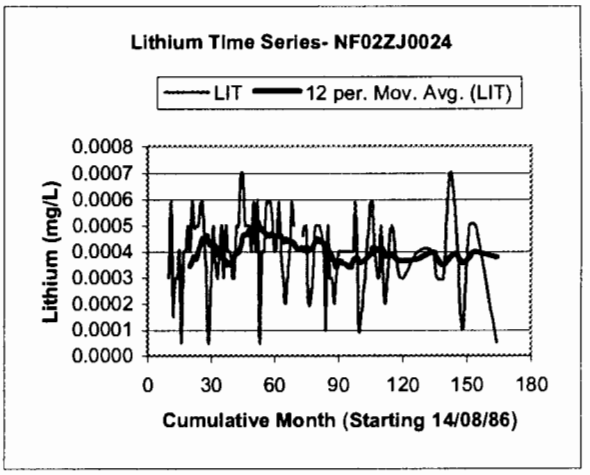

Barium Time Series- NF02ZJ0024
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

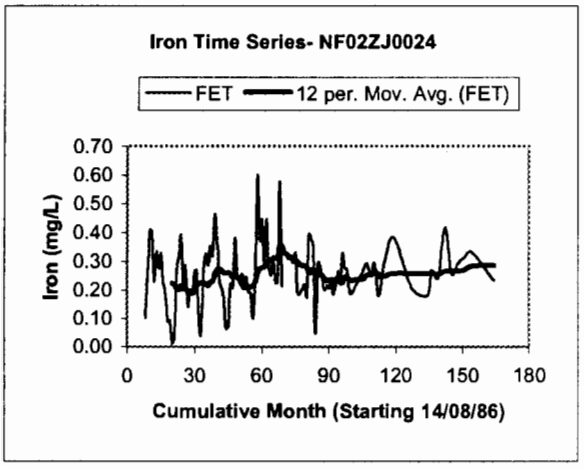

Cobalt Time Series- NF02ZJ0024
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00045
0.00040
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

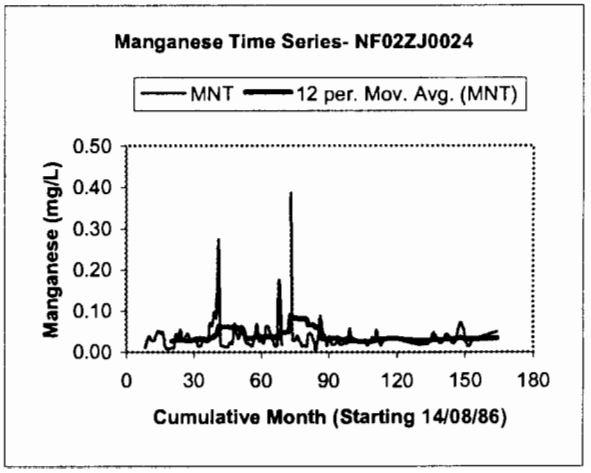

Chromium Time Series- NF02ZJ0024
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

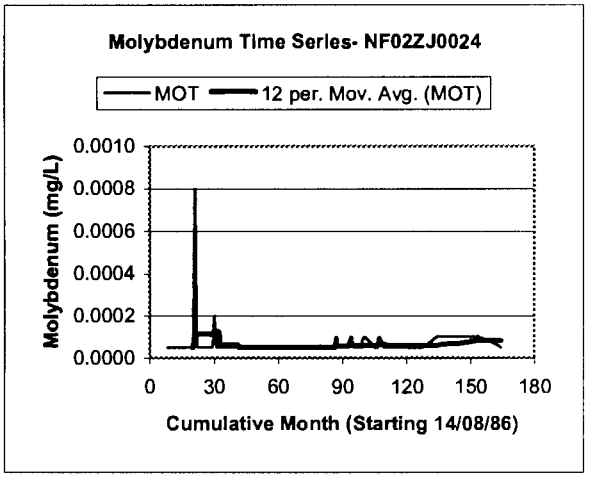

Mercury Time Series- NF02ZJ0024
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

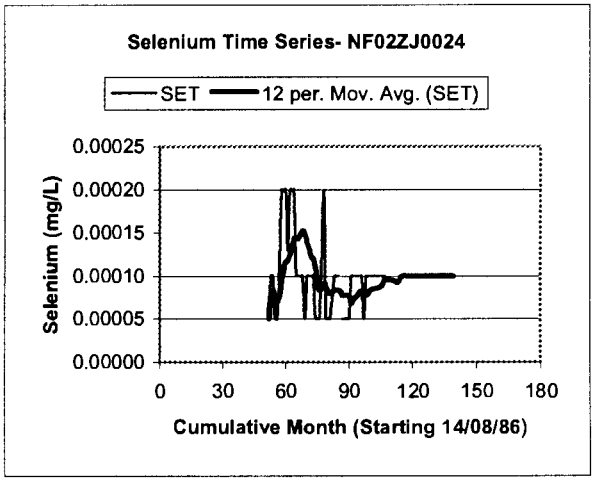

Copper Time Series- NF02ZJ0024
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

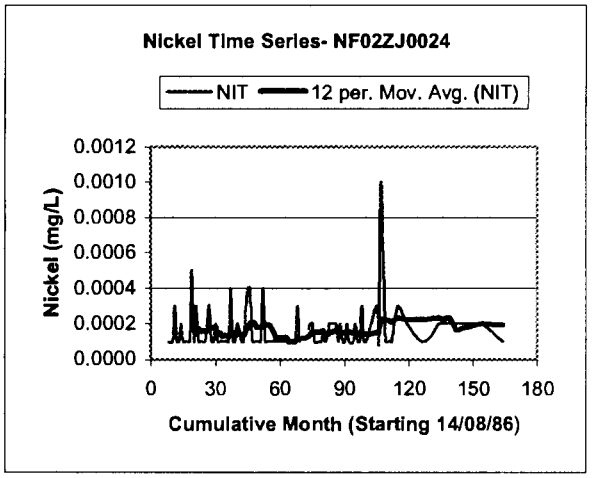

Lithium Time Series- NF02ZJ0024
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

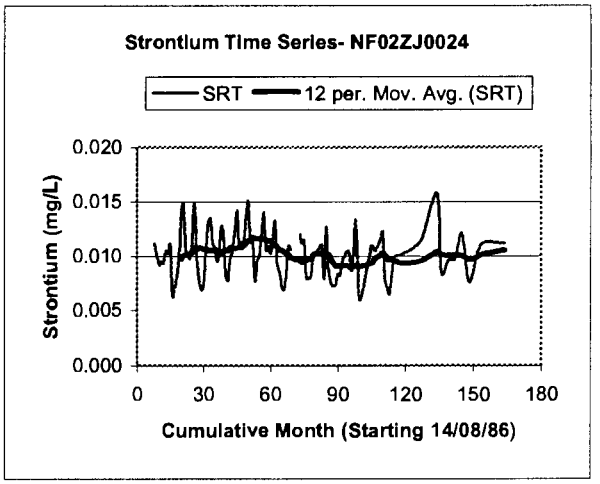

Iron Time Series- NF02ZJ0024
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

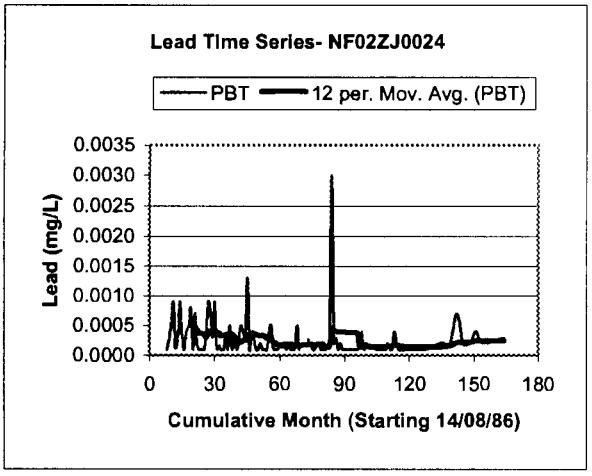

Manganese Time Series- NF02ZJ0024
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

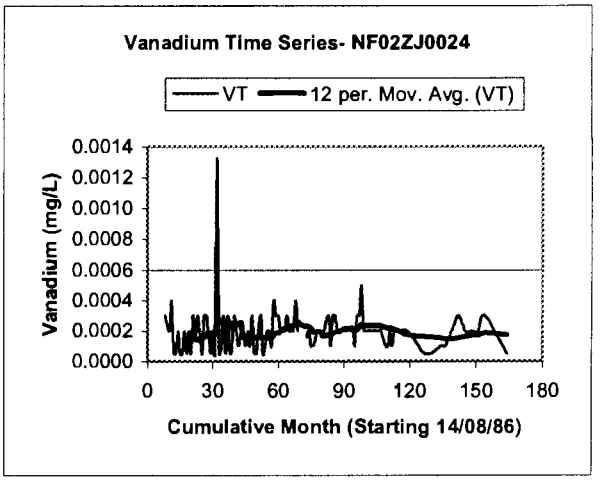

Molybdenum Time Series- NF02ZJ0024
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

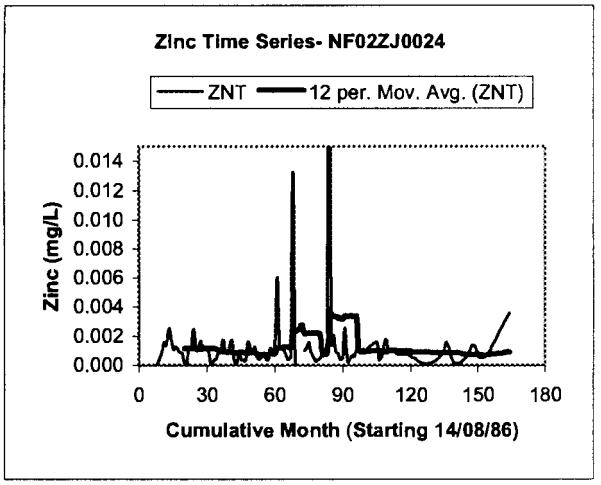

Selenium Time Series- NF02ZJ0024
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)


Nickel Time Series- NF02ZJ0024
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

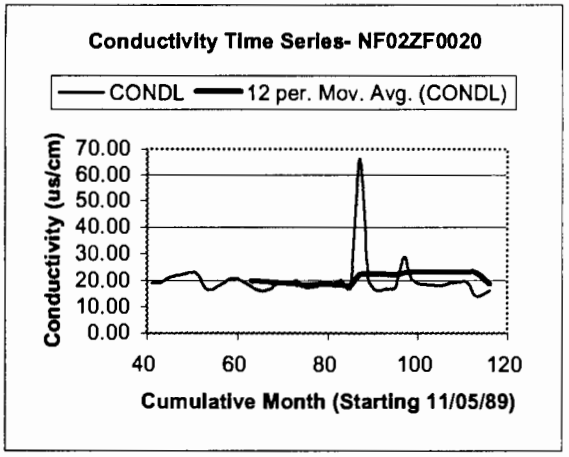

Strontium Time Series- NF02ZJ0024
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

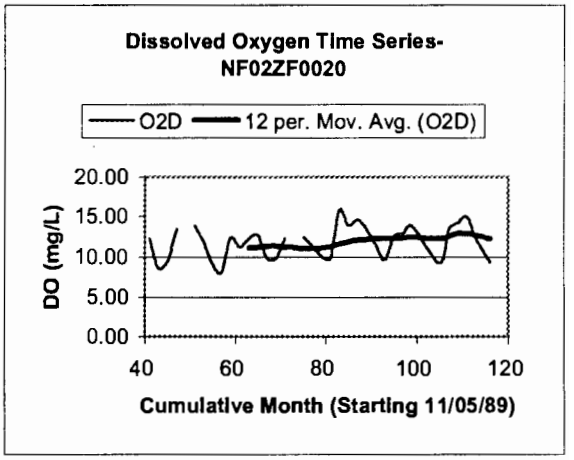

Lead Time Series- NF02ZJ0024
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

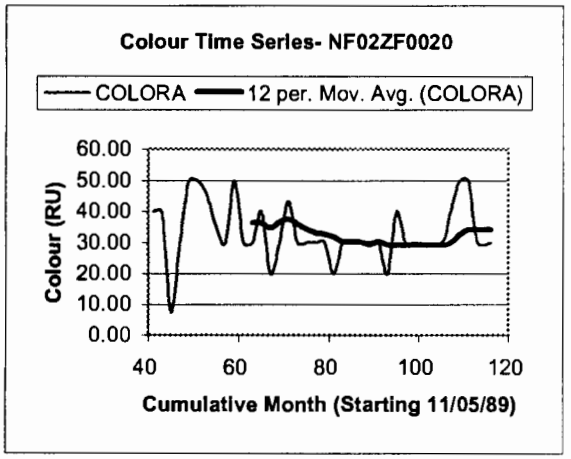

Vanadium Time Series- NF02ZJ0024
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

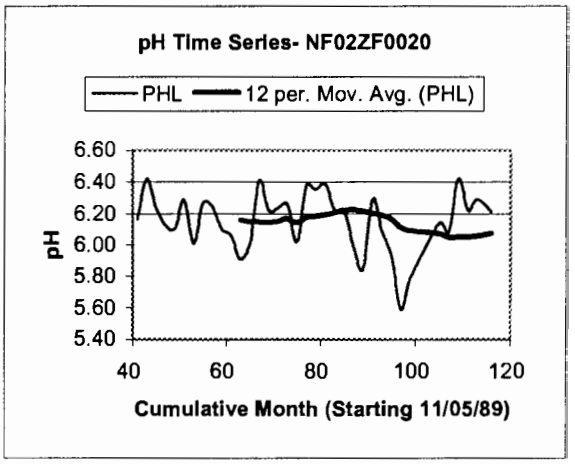

Zinc Time Series- NF02ZJ0024
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
30
60
90
120
150
180
Cumulative Month (Starting 14/08/86)

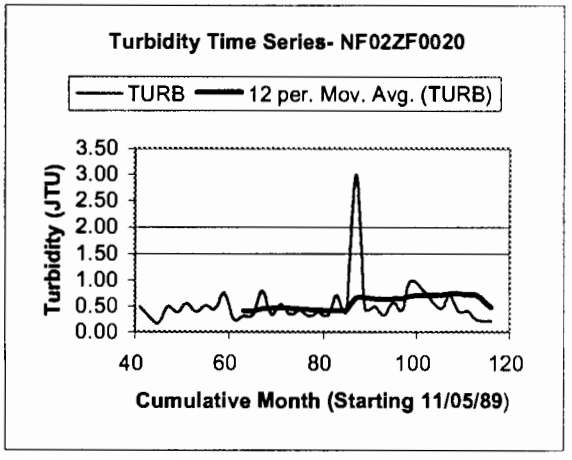
Time Series Plots of Bay du Nord River- NF02ZF0020

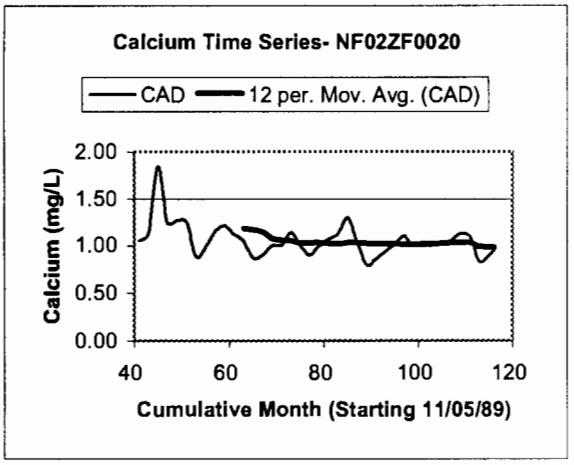


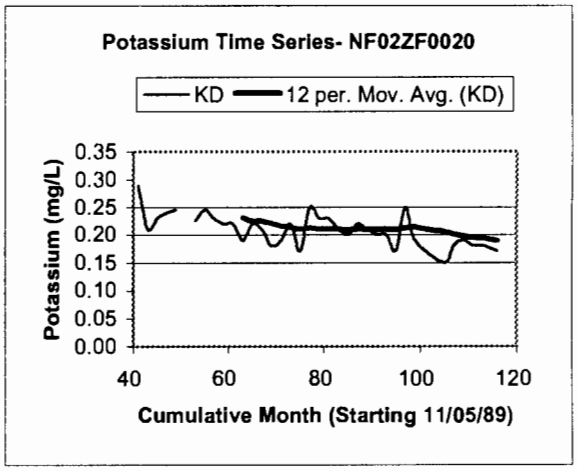


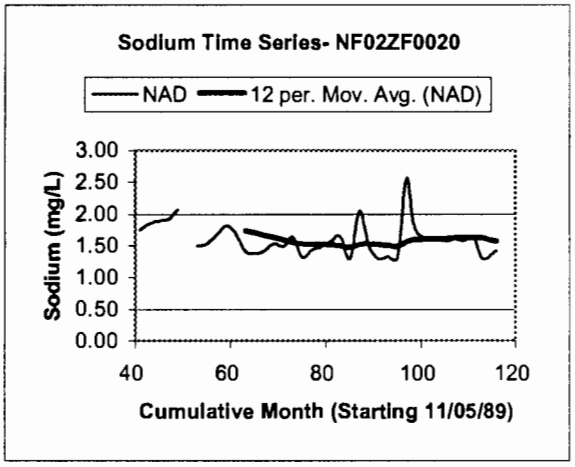


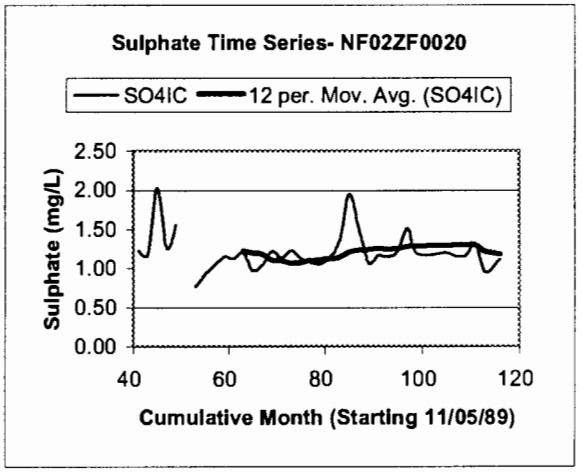


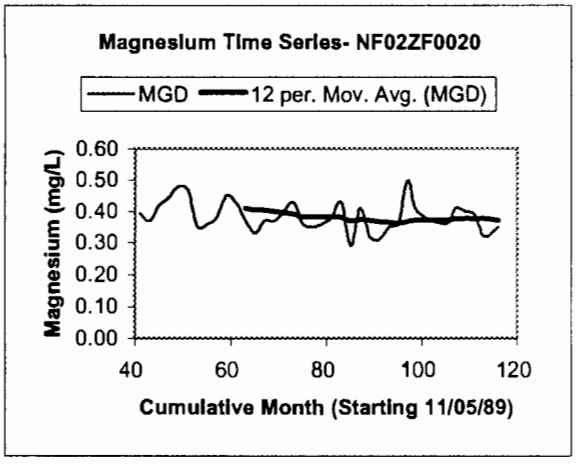


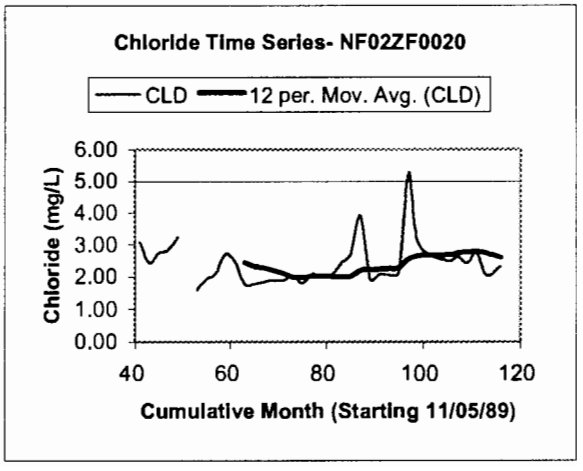

Calcium Time Series- NF02ZF0020
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

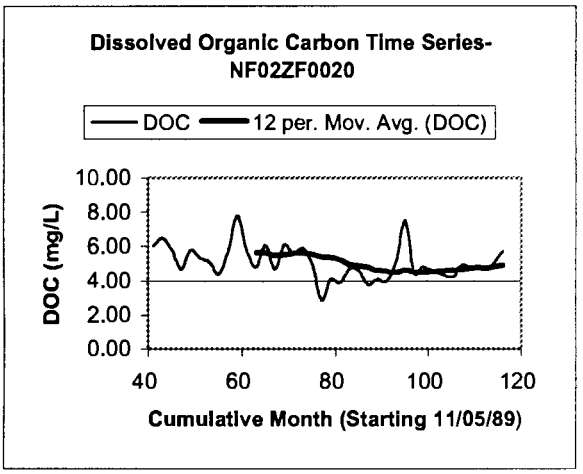

Potassium Time Series- NF02ZF0020
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

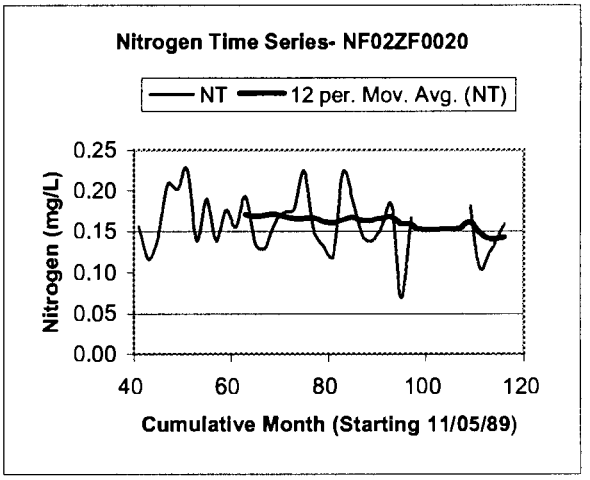

Sodium Time Series- NF02ZF0020
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

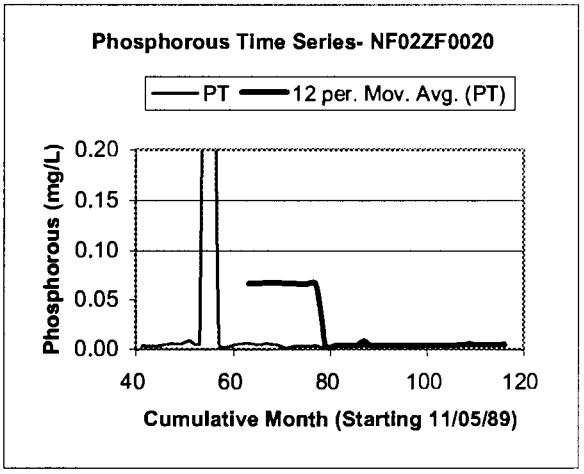

Sulphate Time Series- NF02ZF0020
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

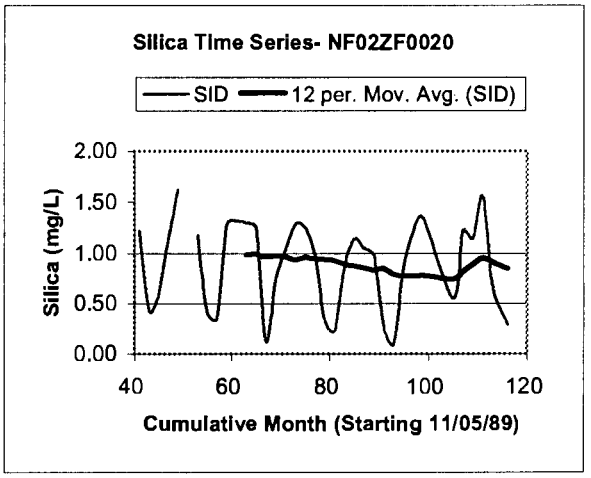

Magnesium Time Series- NF02ZF0020
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

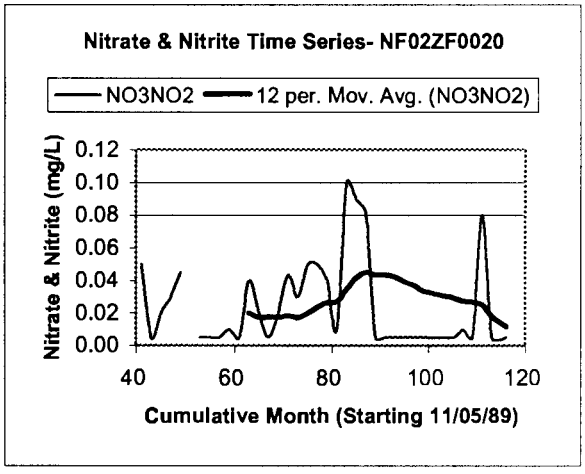

Chloride Time Series- NF02ZF0020
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

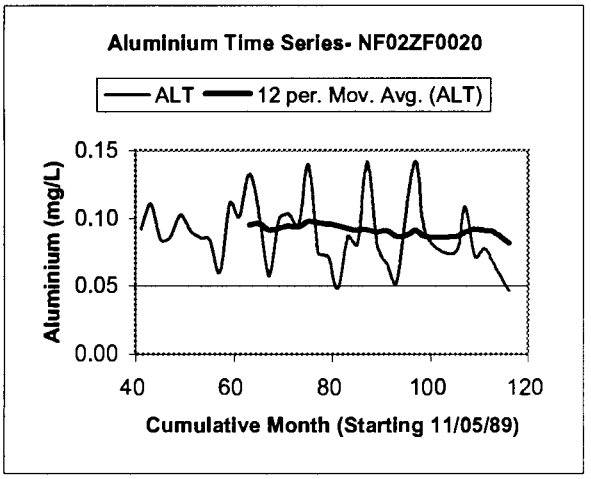

Dissolved Organic Carbon Time Series- NF02ZF0020
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

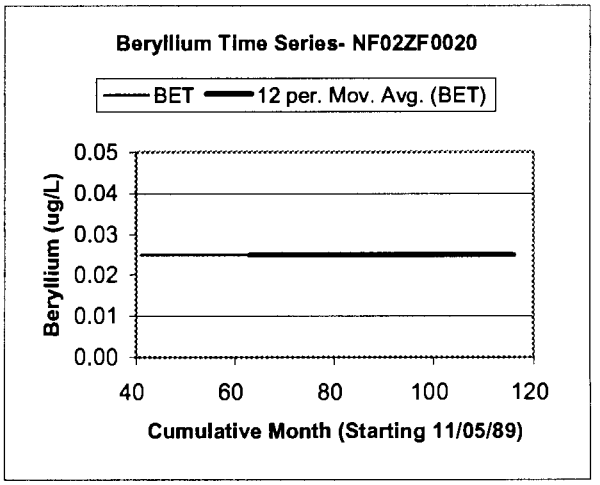

Nitrogen Time Series- NF02ZF0020
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

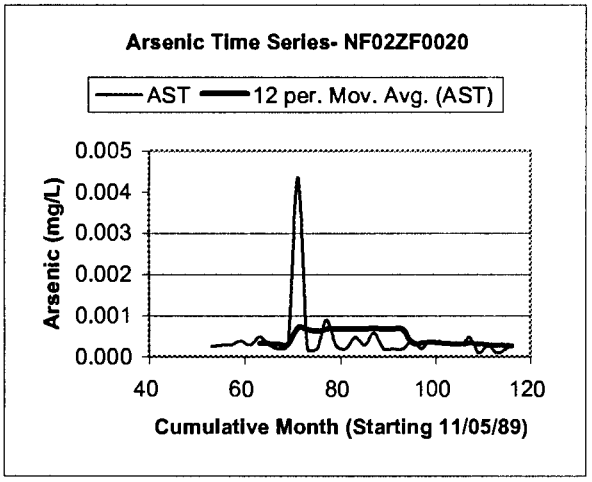

Phosphorous Time Series- NF02ZF0020
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

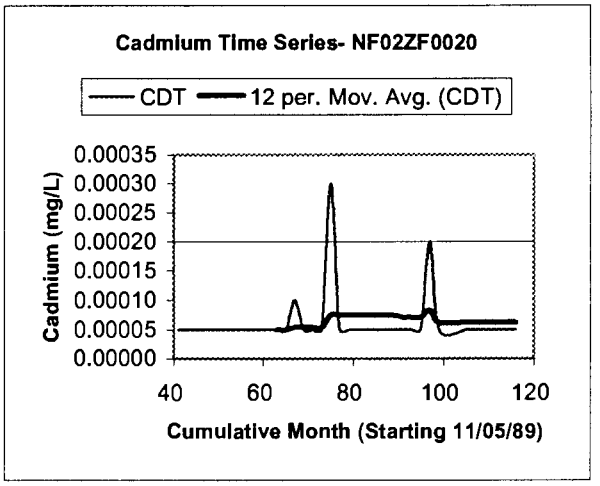

Silica Time Series- NF02ZF0020
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

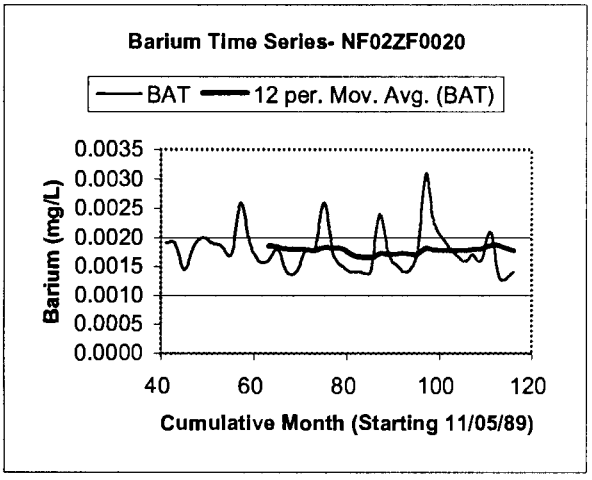

Nitrate & Nitrite Time Series- NF02ZF0020
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

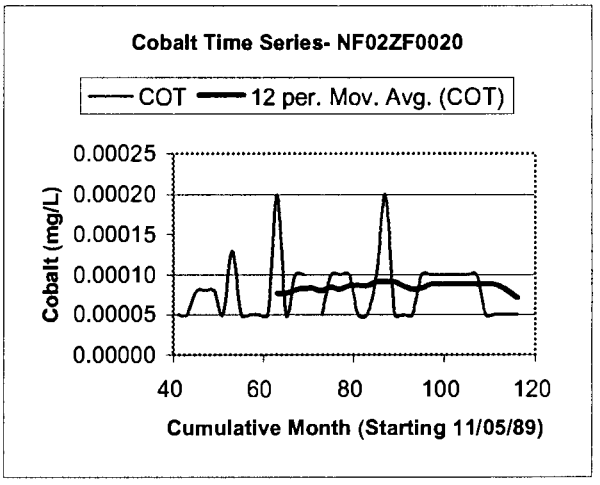

Aluminium Time Series- NF02ZF0020
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.15
0.10
0.05
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

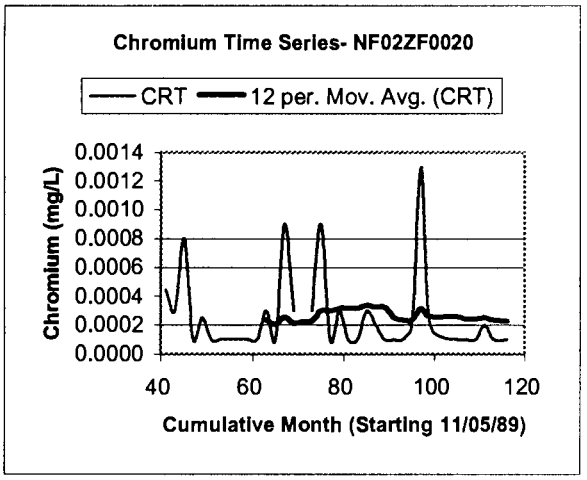

Beryllium Time Series- NF02ZF0020
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.05
0.04
0.03
0.02
0.01
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

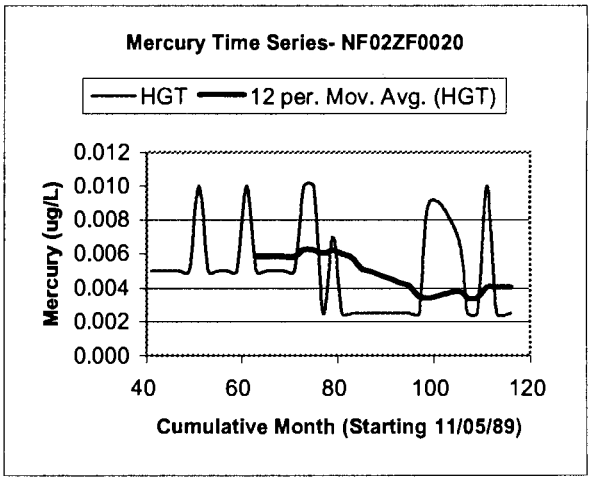

Arsenic Time Series- NF02ZF0020
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

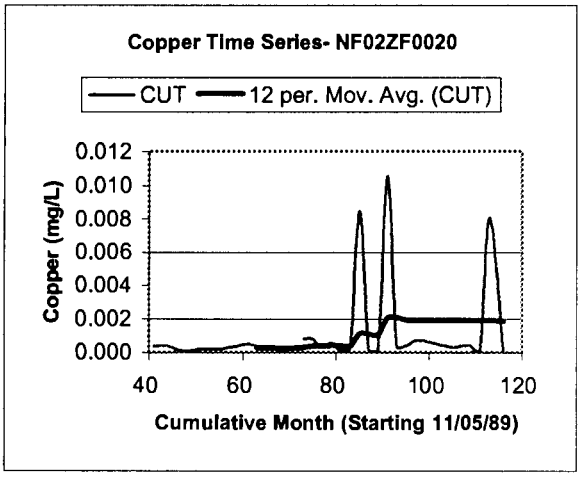

Cadmium Time Series- NF02ZF0020
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

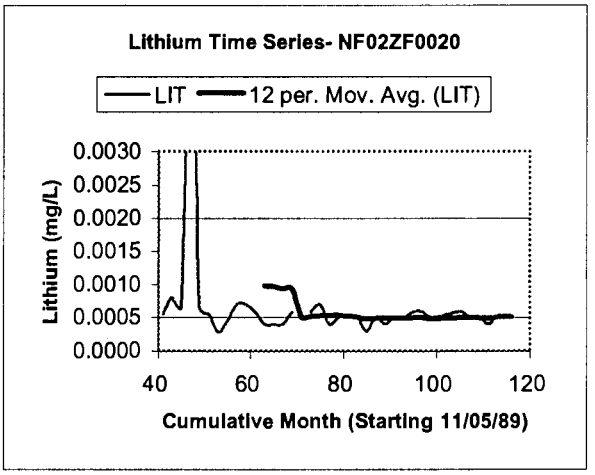

Barium Time Series- NF02ZF0020
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

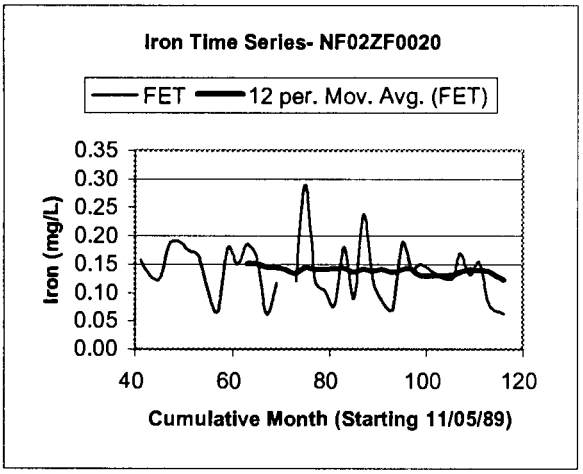

Cobalt Time Series- NF02ZF0020
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

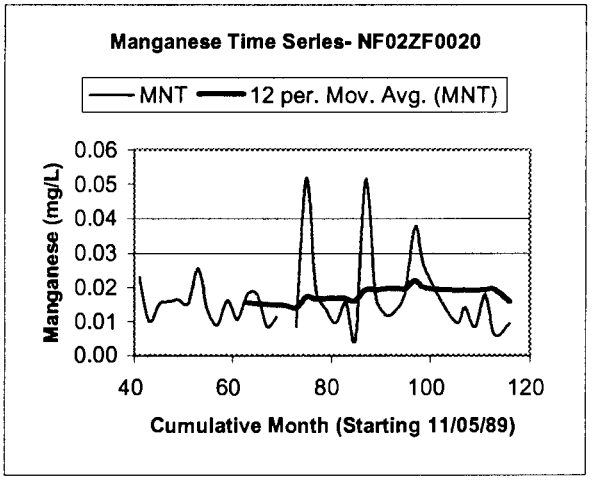

Chromium Time Series- NF02ZF0020
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

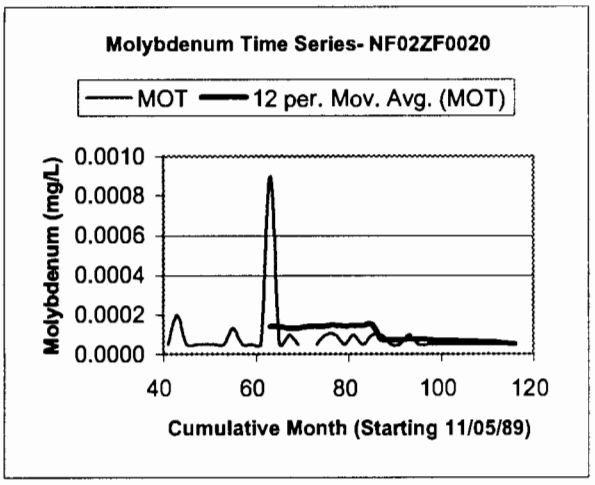

Mercury Time Series- NF02ZF0020
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

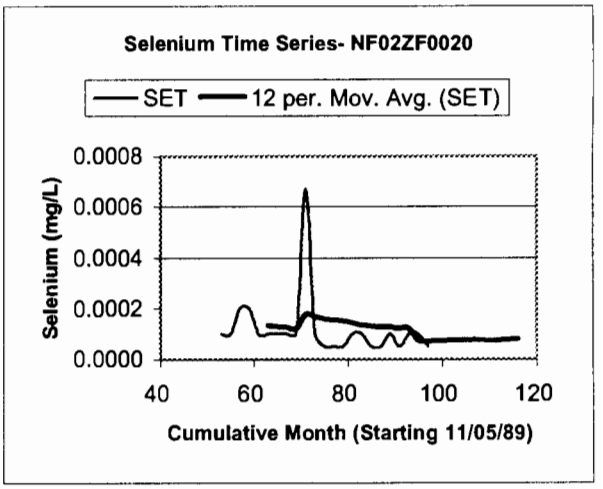

Copper Time Series- NF02ZF0020
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

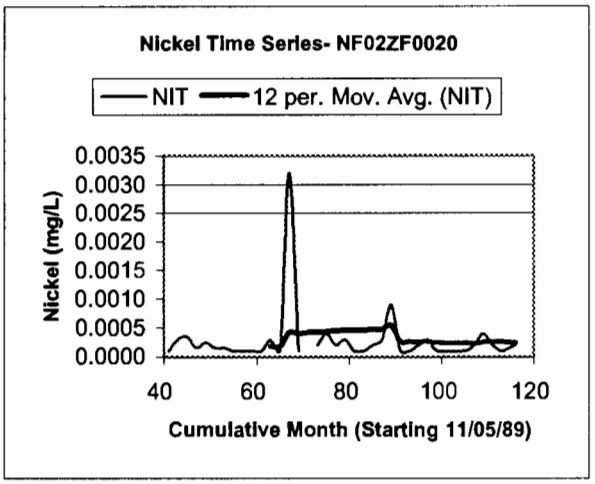

Lithium Time Series- NF02ZF0020
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

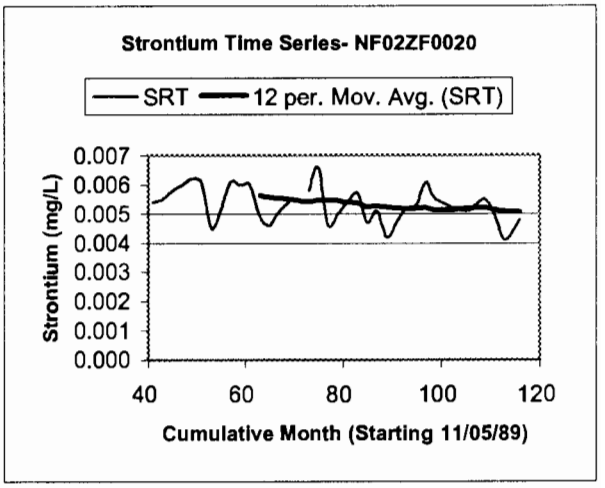

Iron Time Series- NF02ZF0020
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

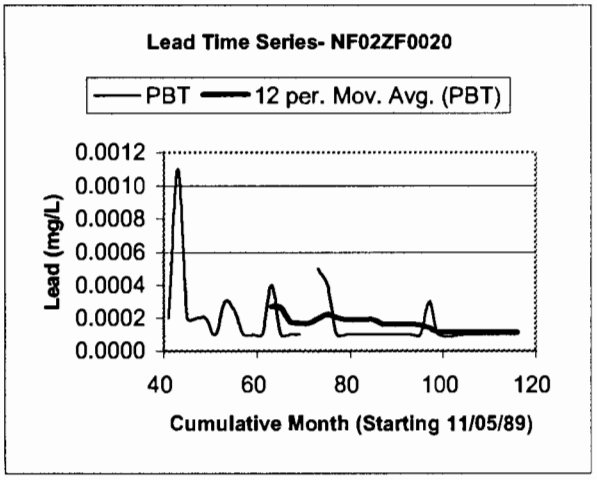

Manganese Time Series- NF02ZF0020
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

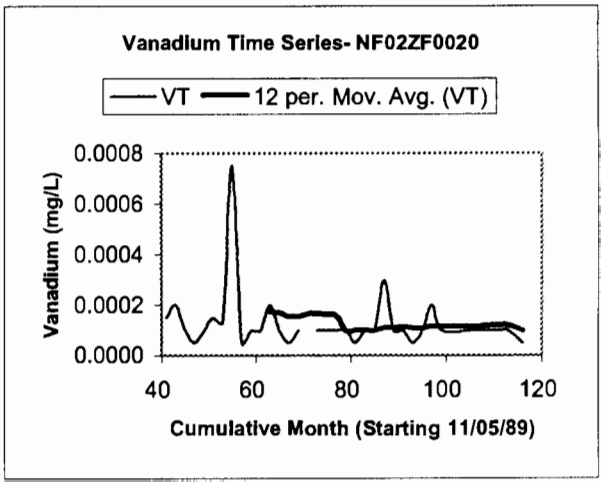

Molybdenum Time Series- NF02ZF0020
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

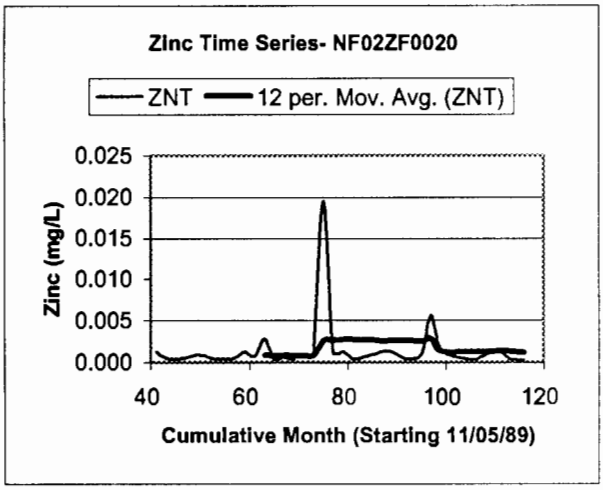

Selenium Time Series- NF02ZF0020
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)


Nickel Time Series- NF02ZF0020
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

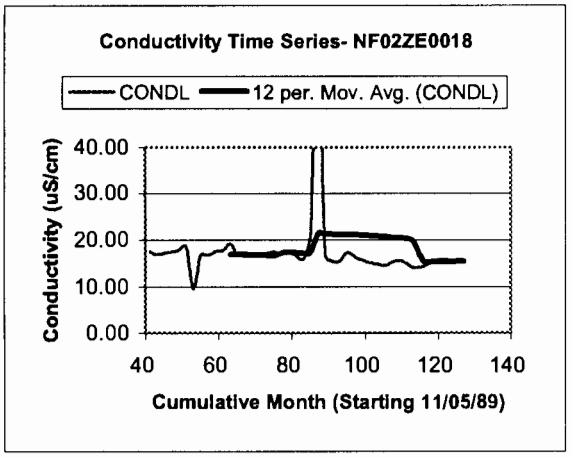

Strontium Time Series- NF02ZF0020
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

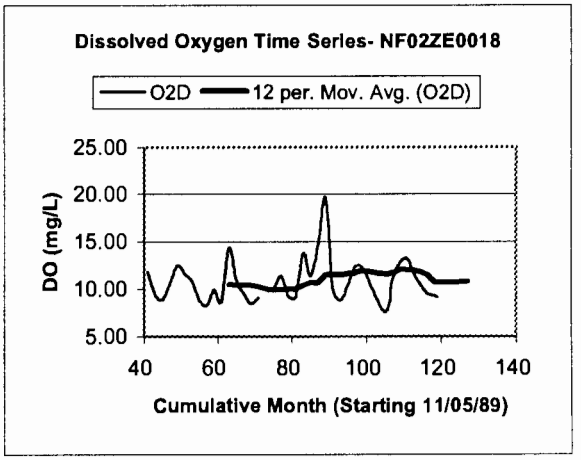

Lead Time Series- NF02ZF0020
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

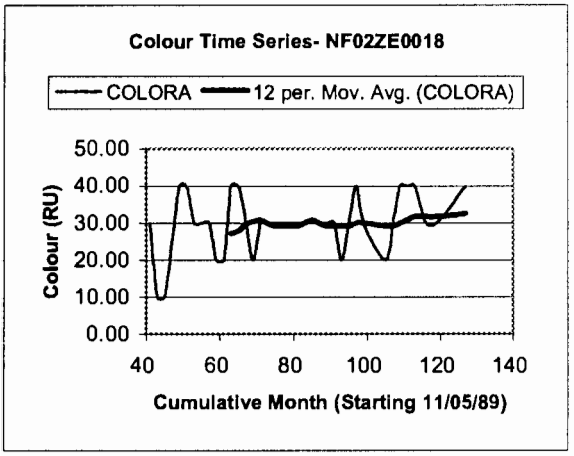

Vanadium Time Series- NF02ZF0020
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

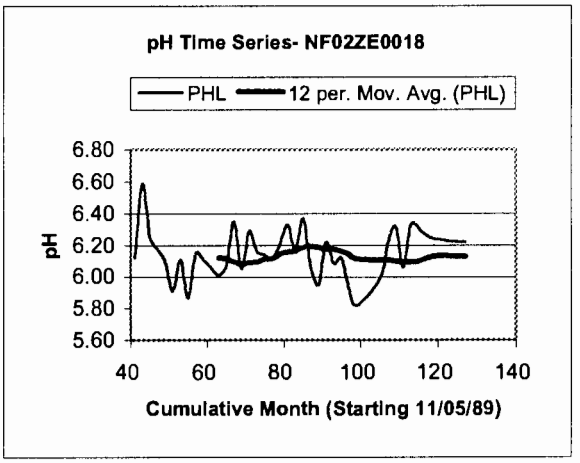

Zinc Time Series- NF02ZF0020
ZNT
12 per. Mov. Avg. (ZNT)
0.025
0.020
0.015
0.010
0.005
0.000
Zinc (mg/L)
40
60
80
100
120
Cumulative Month (Starting 11/05/89)

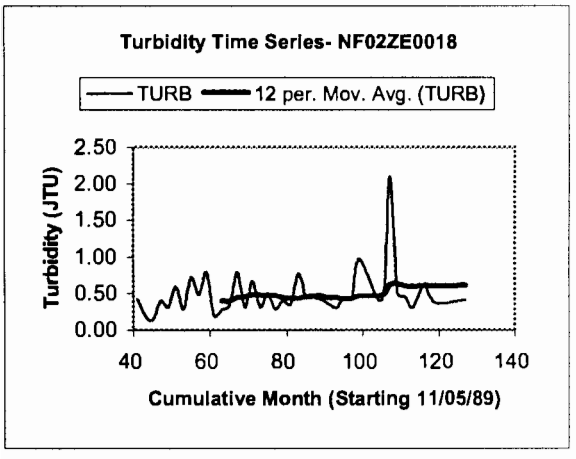
Time Series Plots of Jeddore Lake- NF02ZE0018

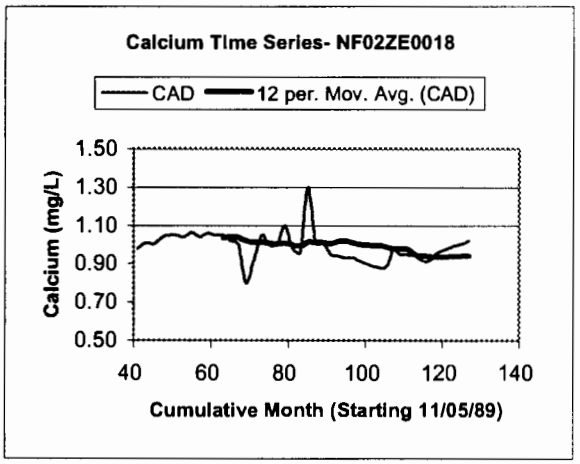


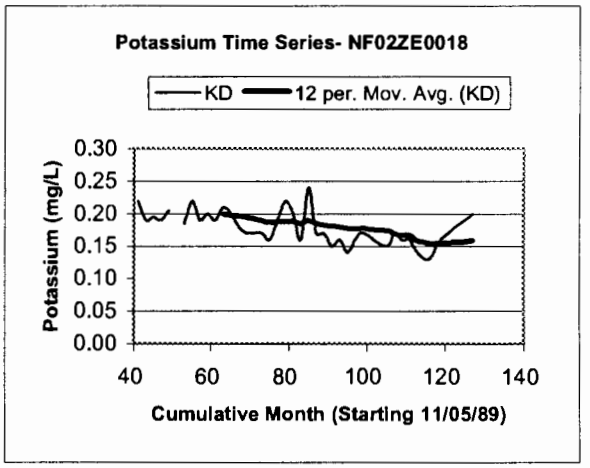


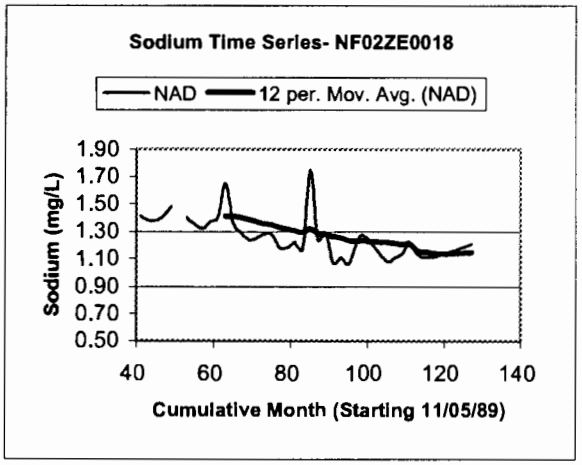


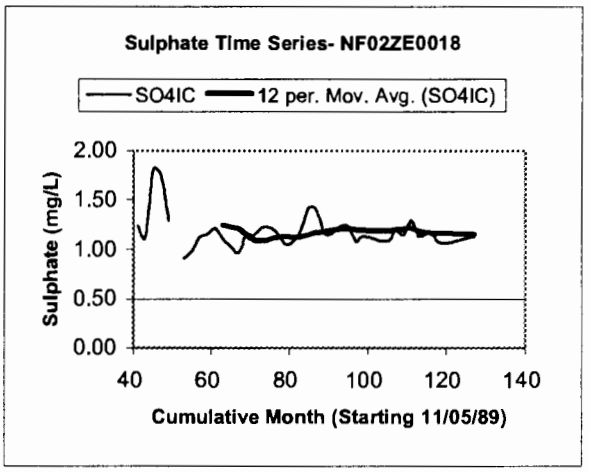


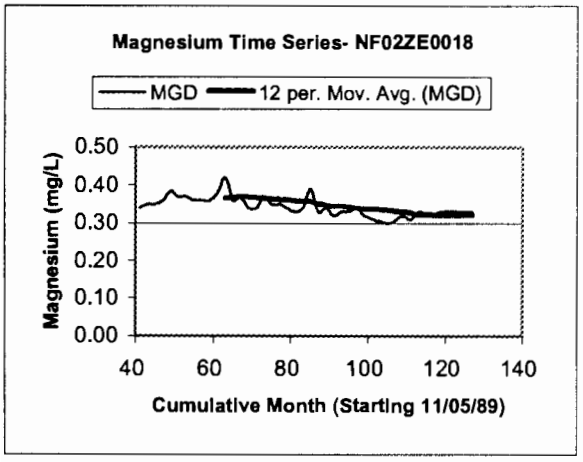


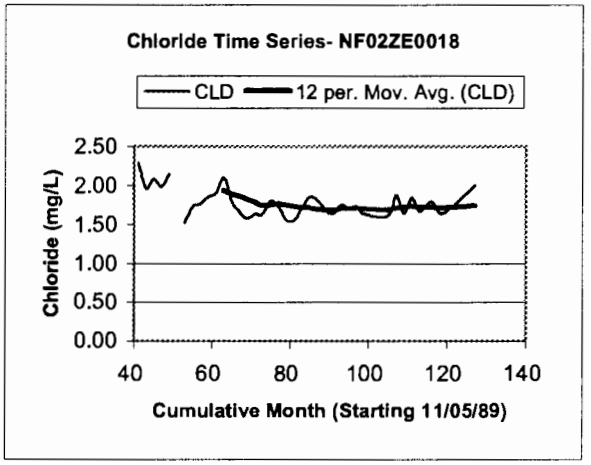

Calcium Time Series- NF02ZE0018
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
1.50
1.30
1.10
0.90
0.70
0.50
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

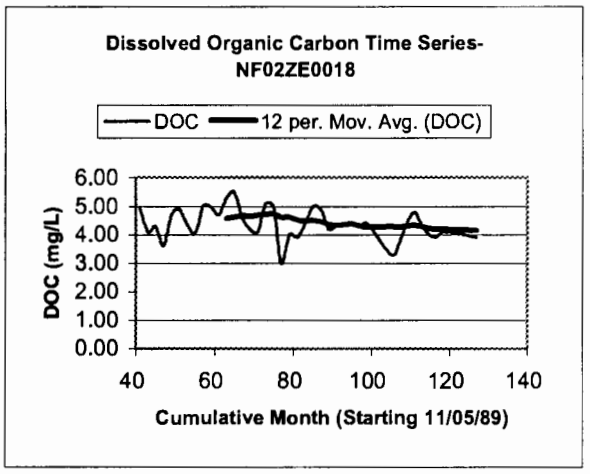

Potassium Time Series- NF02ZE0018
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

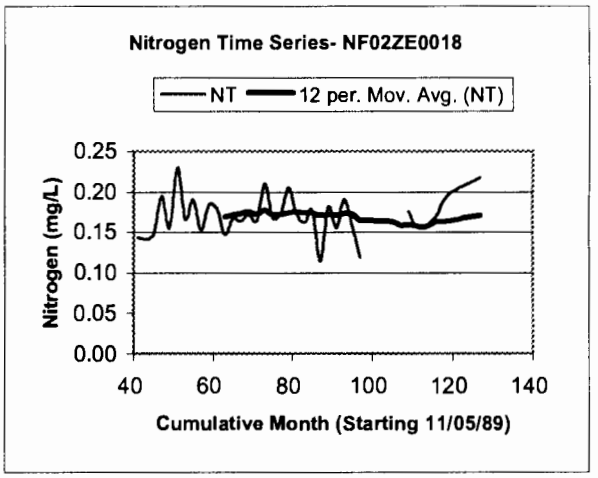

Sodium Time Series- NF02ZE0018
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
1.90
1.70
1.50
1.30
1.10
0.90
0.70
0.50
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

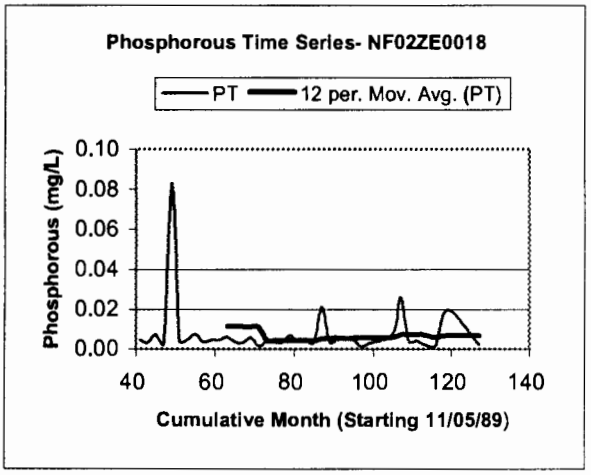

Sulphate Time Series- NF02ZE0018
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

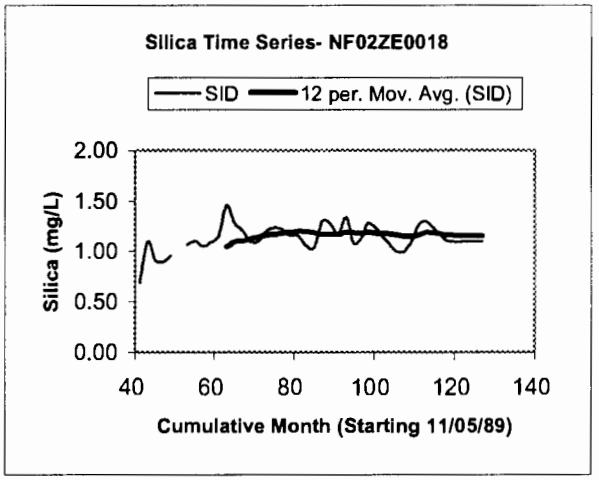

Magnesium Time Series- NF02ZE0018
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

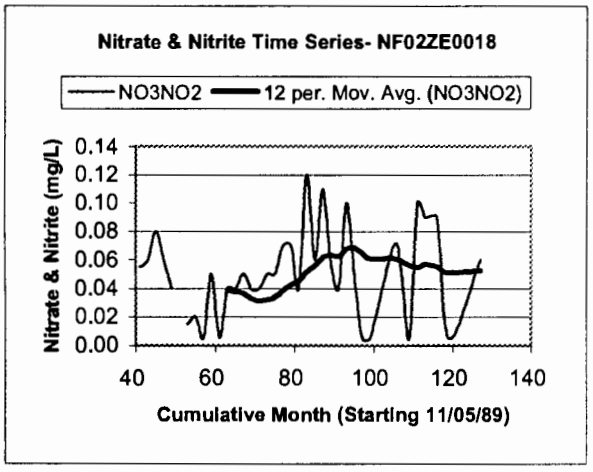

Chloride Time Series- NF02ZE0018
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

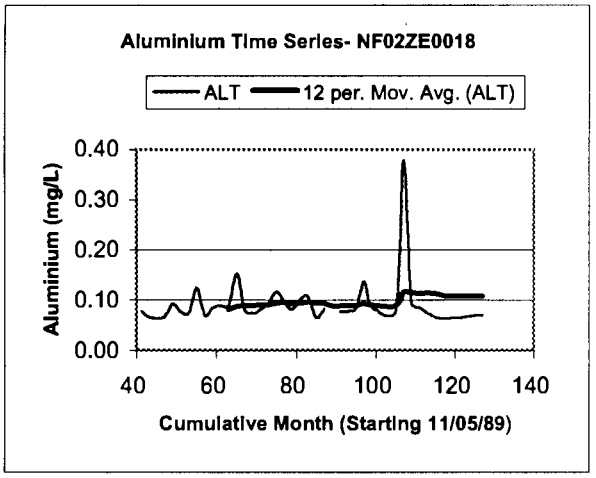

Dissolved Organic Carbon Time Series- NF02ZE0018
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

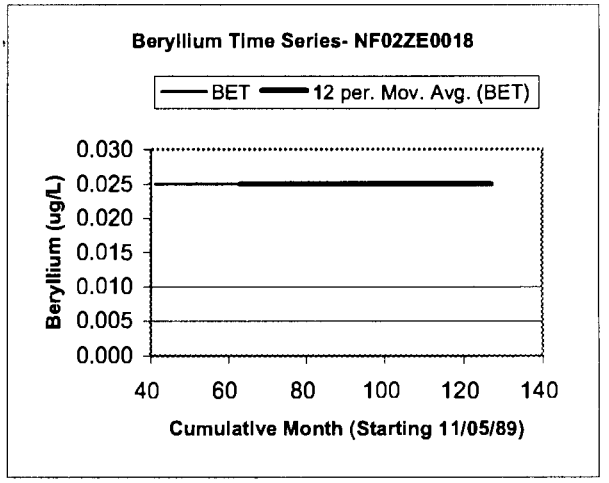

Nitrogen Time Series- NF02ZE0018
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

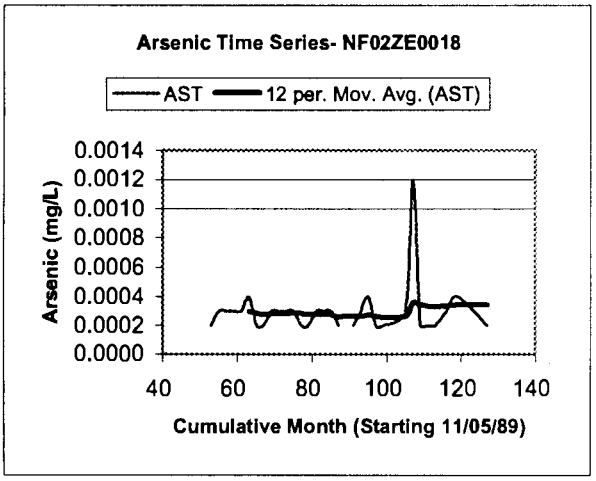

Phosphorous Time Series- NF02ZE0018
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

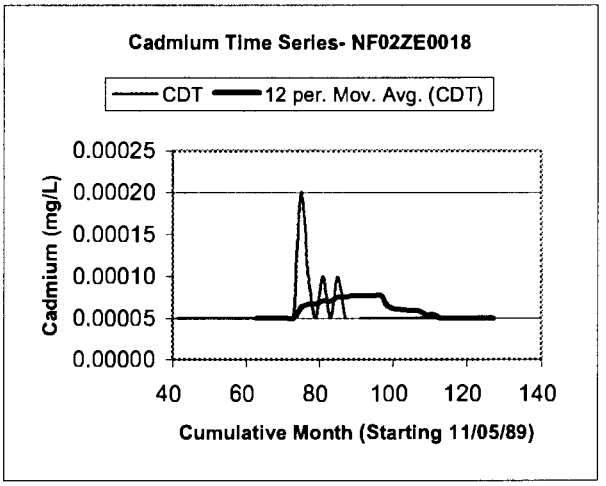

Silica Time Series- NF02ZE0018
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.00
1.50
1.00
0.50
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

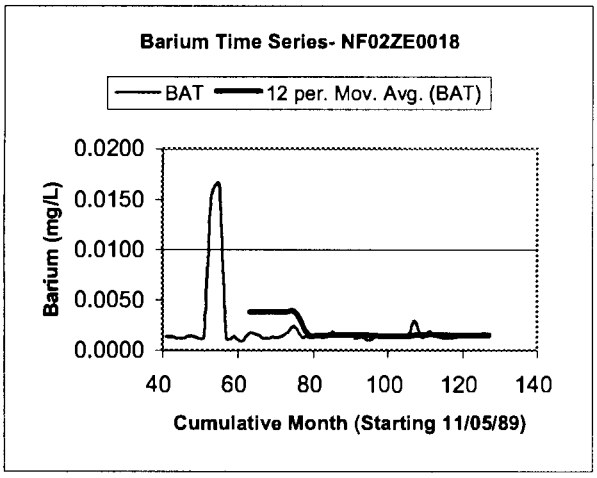

Nitrate & Nitrite Time Series- NF02ZE0018
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

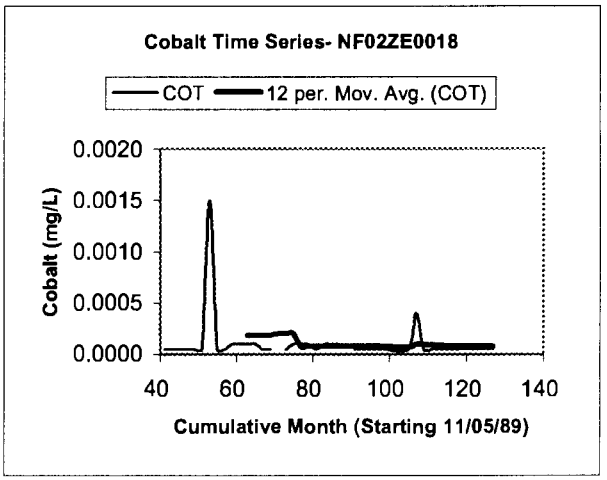

Aluminium Time Series- NF02ZE0018
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

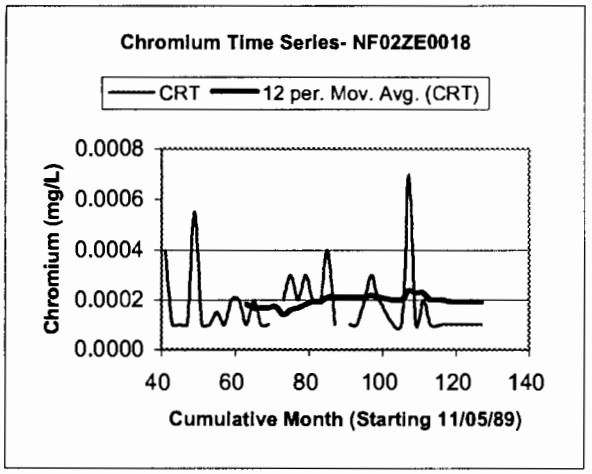

Beryllium Time Series- NF02ZE0018
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

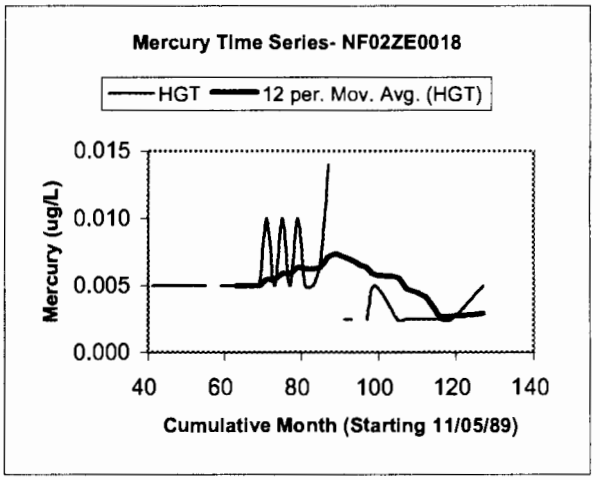

Arsenic Time Series- NF02ZE0018
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

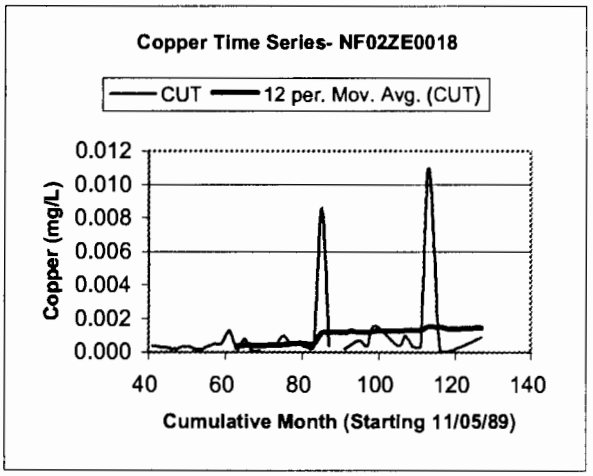

Cadmium Time Series- NF02ZE0018
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

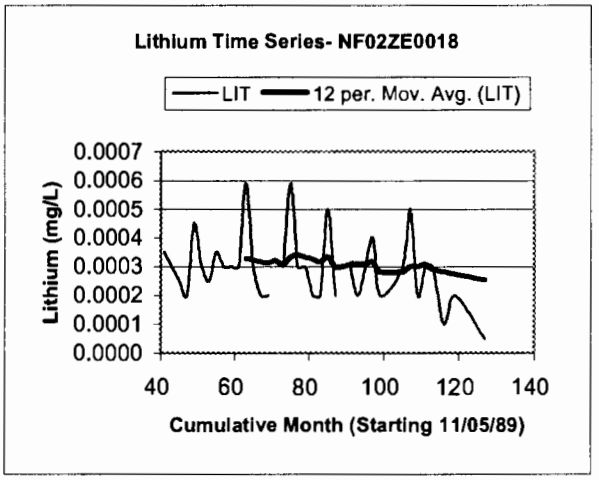

Barium Time Series- NF02ZE0018
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0200
0.0150
0.0100
0.0050
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

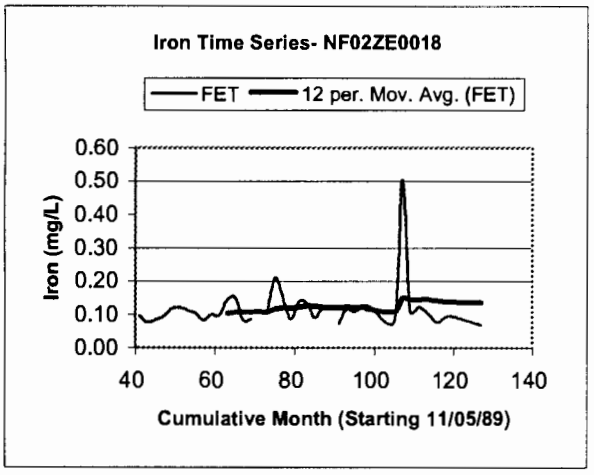

Cobalt Time Series- NF02ZE0018
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

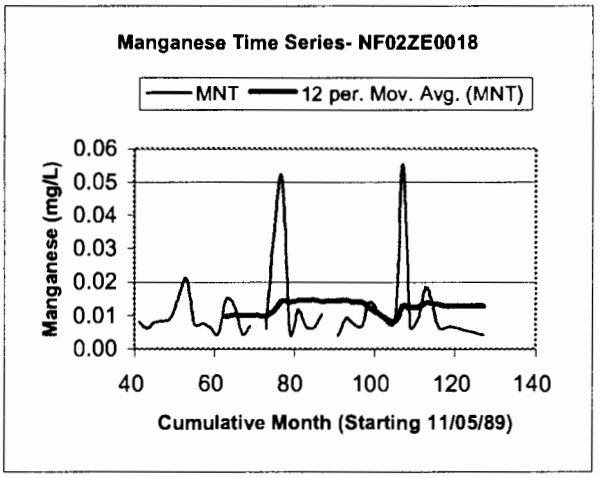

Chromium Time Series- NF02ZE0018
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

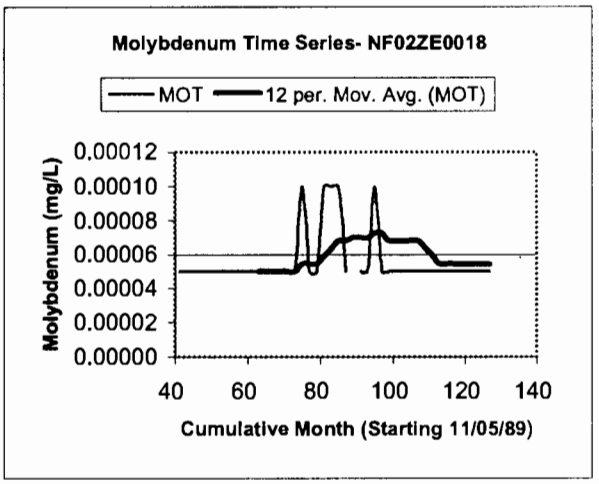

Mercury Time Series- NF02ZE0018
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.015
0.010
0.005
0.000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

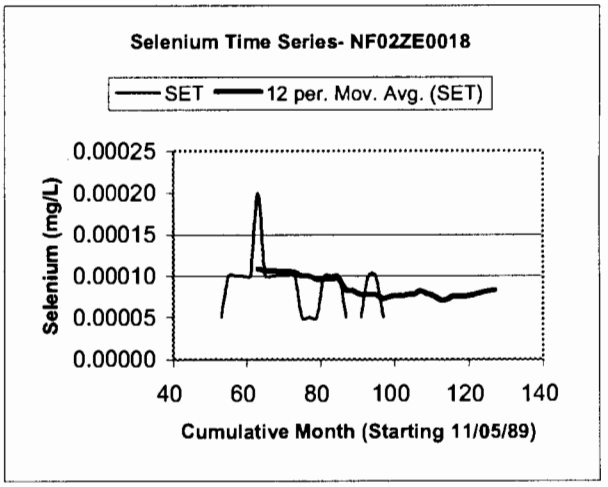

Copper Time Series- NF02ZE0018
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

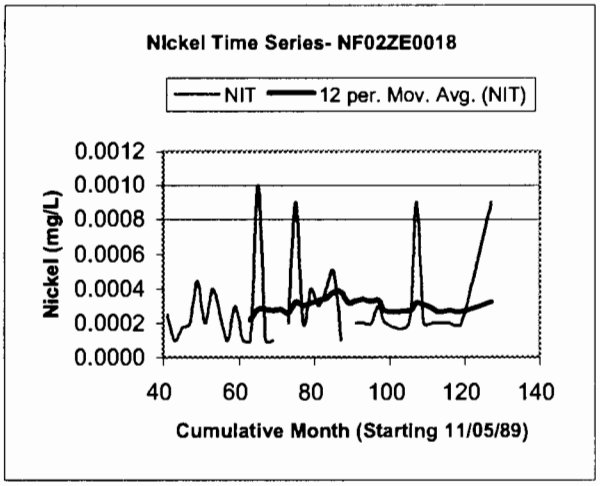

Lithium Time Series- NF02ZE0018
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

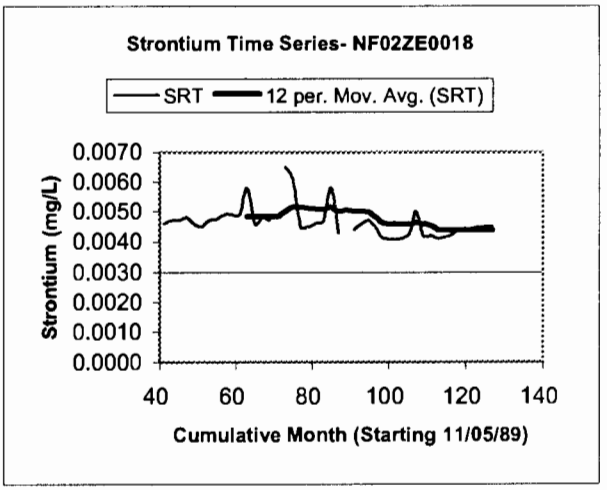

Iron Time Series- NF02ZE0018
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

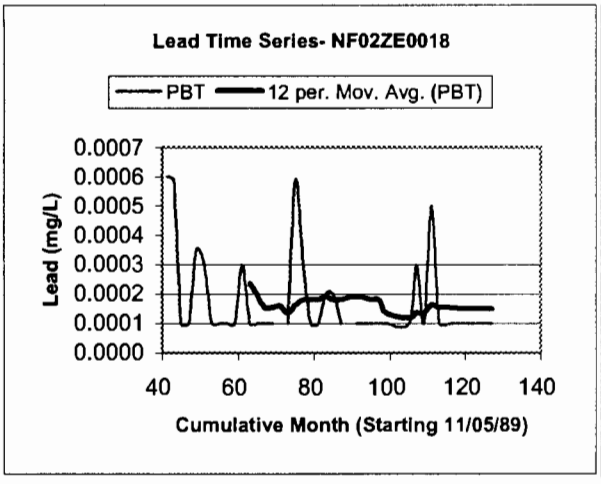

Manganese Time Series- NF02ZE0018
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

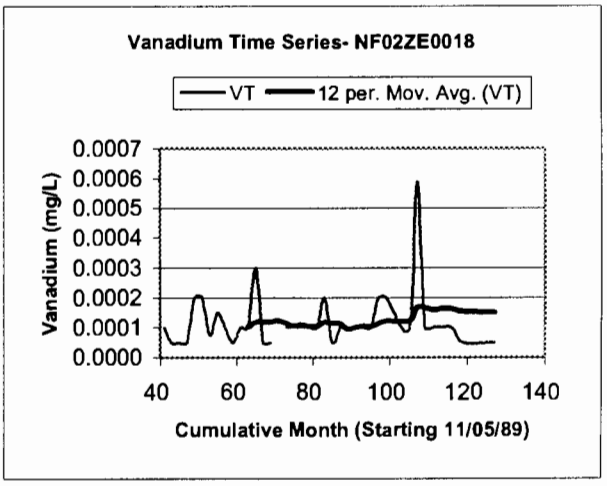

Molybdenum Time Series- NF02ZE0018
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

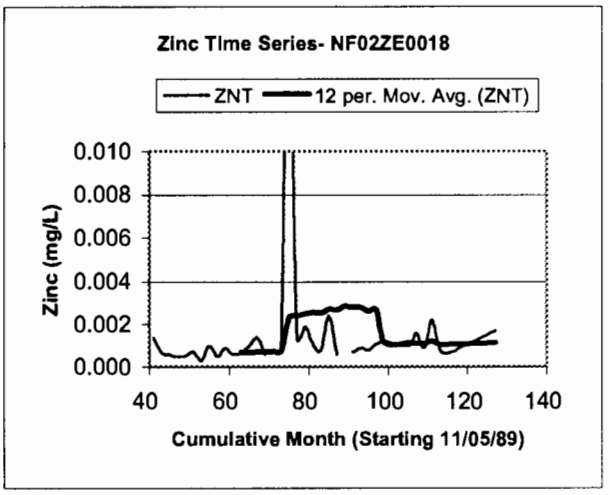

Selenium Time Series- NF02ZE0018
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)


Nickel Time Series- NF02ZE0018
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

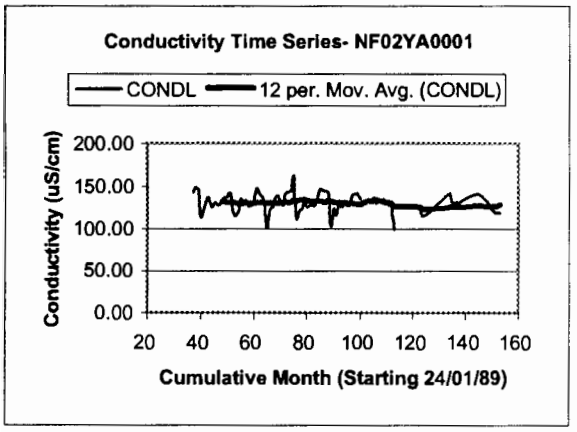

Strontium Time Series- NF02ZE0018
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.0070
0.0060
0.0050
0.0040
0.0030
0.0020
0.0010
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

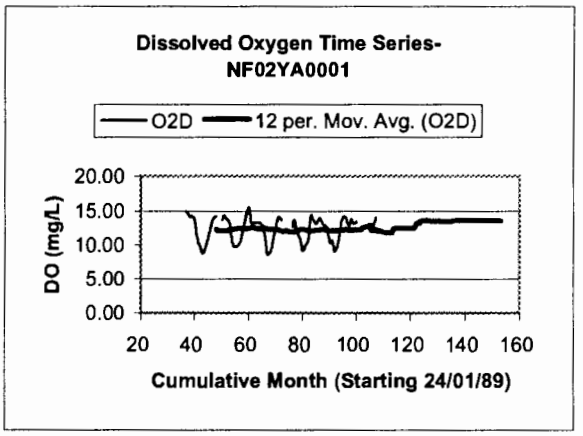

Lead Time Series- NF02ZE0018
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

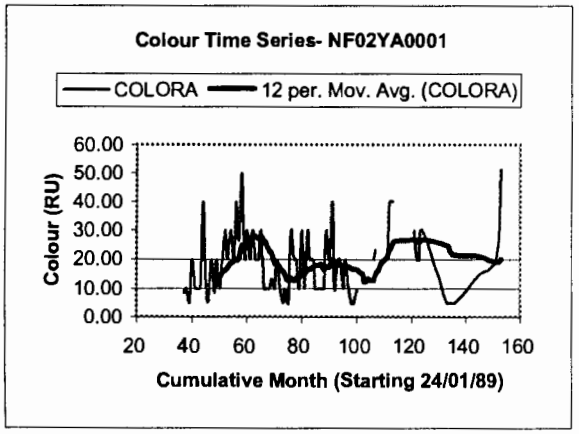

Vanadium Time Series- NF02ZE0018
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

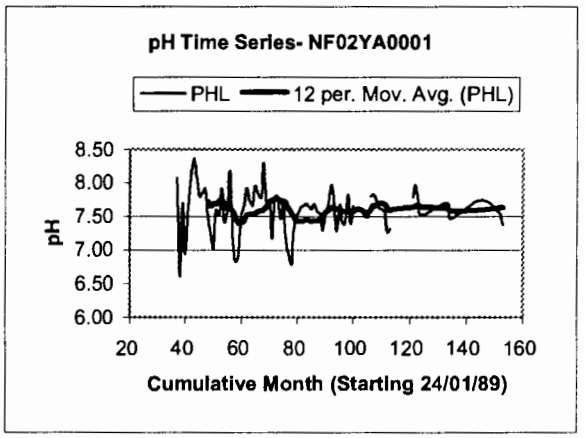

Zinc Time Series- NF02ZE0018
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
40
60
80
100
120
140
Cumulative Month (Starting 11/05/89)

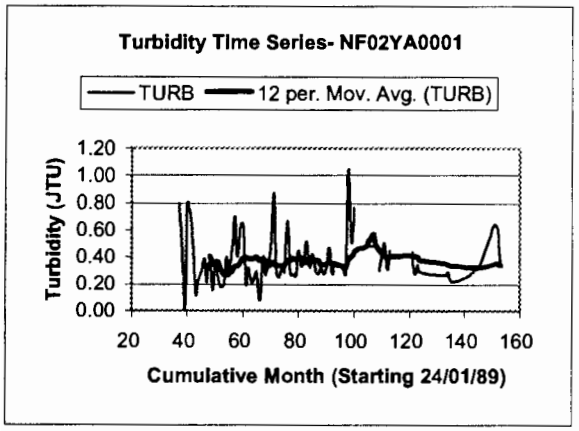
Time Series Plots of Ste. Genevieve River- NF02YA0001

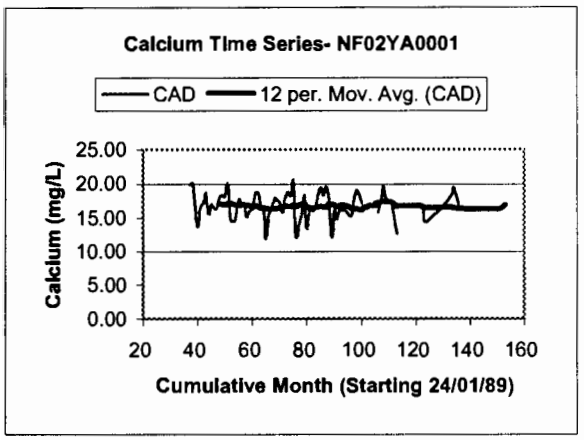


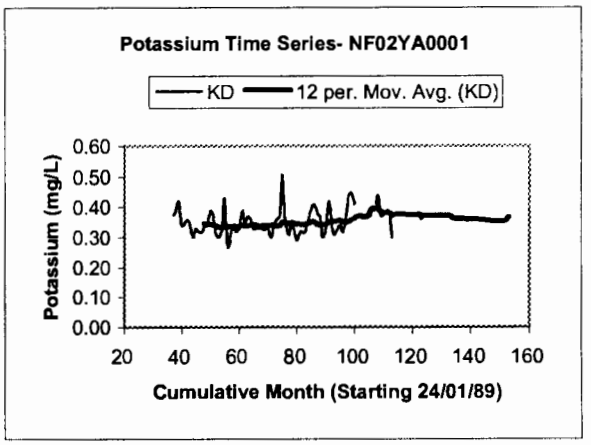


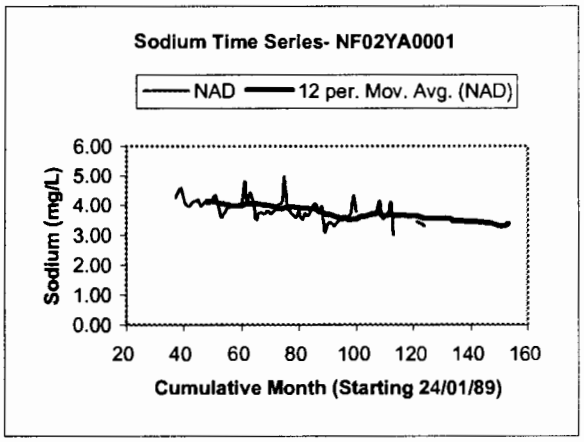


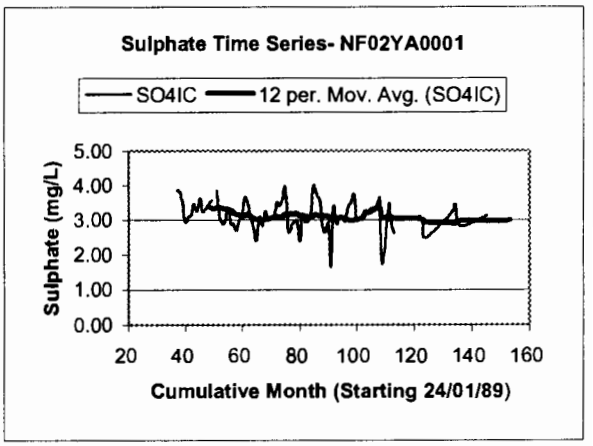


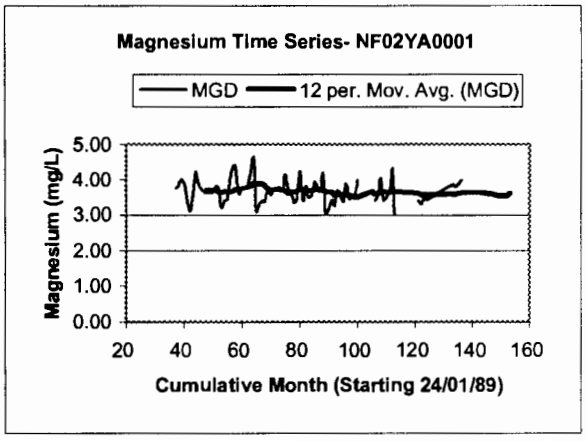


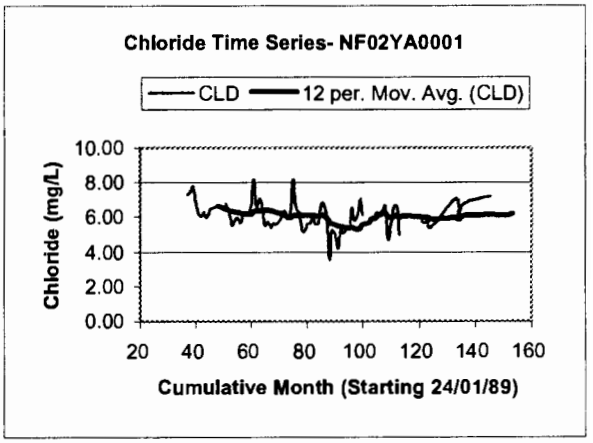

Calcium Time Series- NF02YA0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

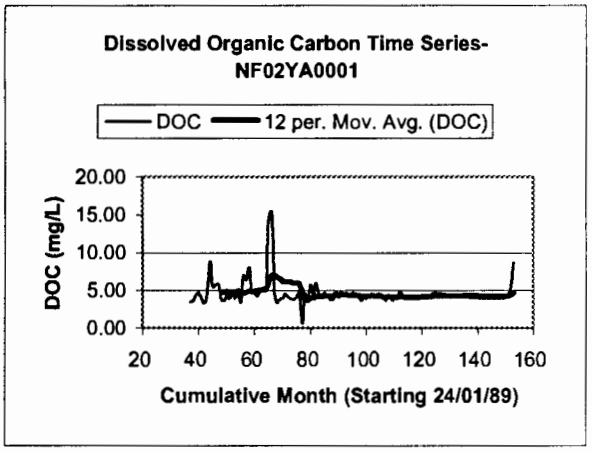

Potassium Time Series- NF02YA0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

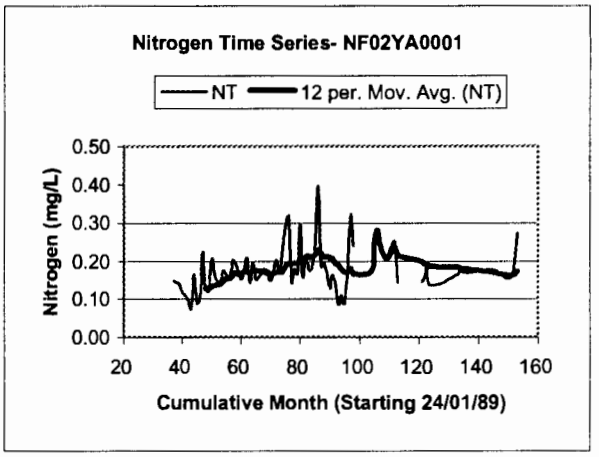

Sodium Time Series- NF02YA0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

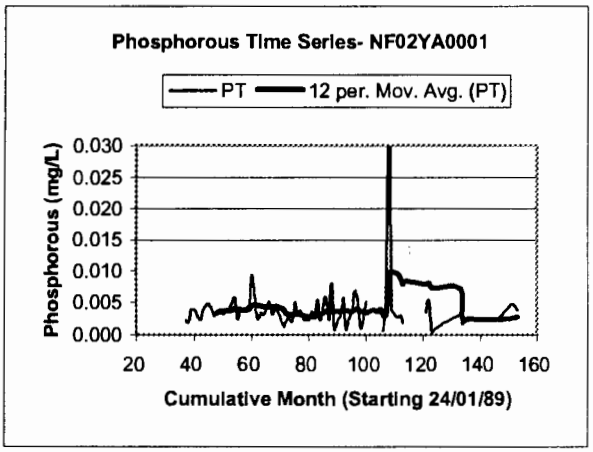

Sulphate Time Series- NF02YA0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

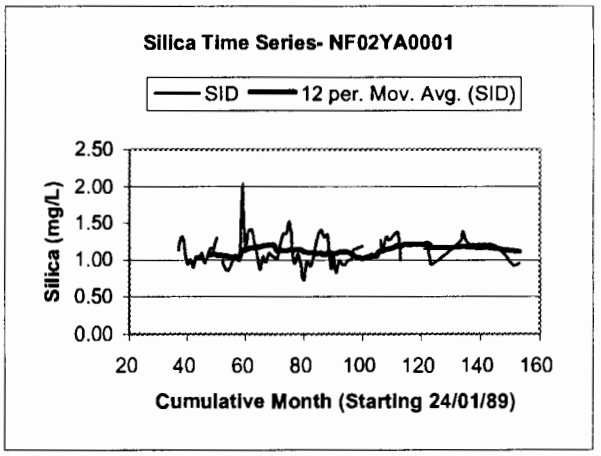

Magnesium Time Series- NF02YA0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

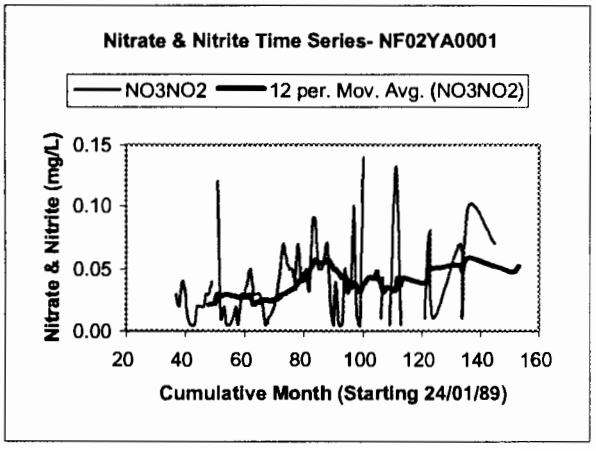

Chloride Time Series- NF02YA0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

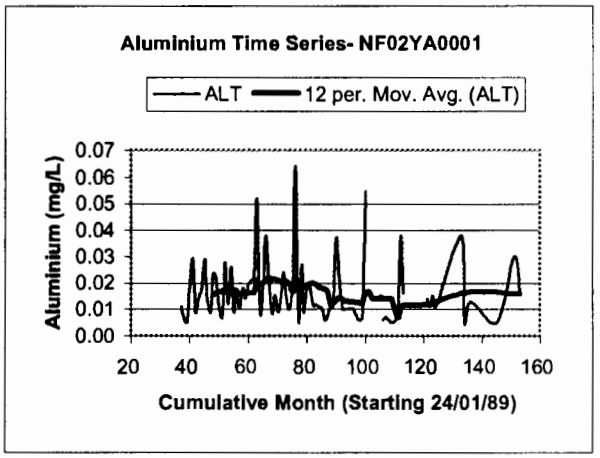

Dissolved Organic Carbon Time Series- NF02YA0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

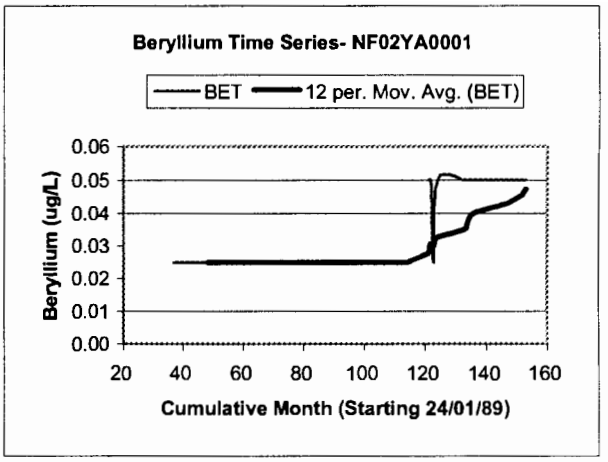

Nitrogen Time Series- NF02YA0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

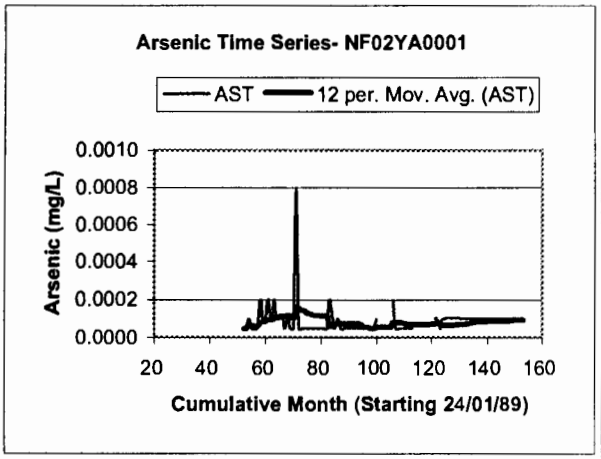

Phosphorous Time Series- NF02YA0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

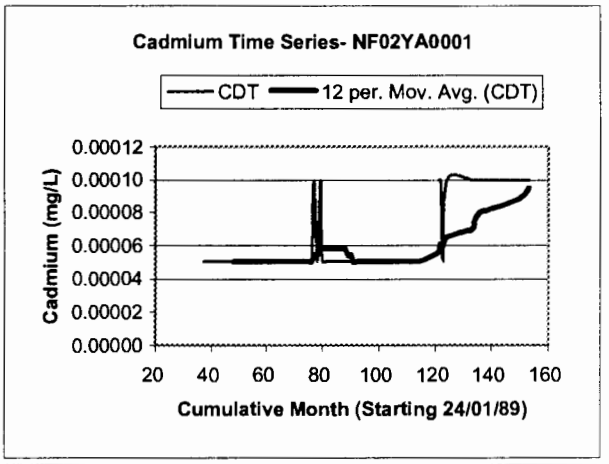

Silica Time Series- NF02YA0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

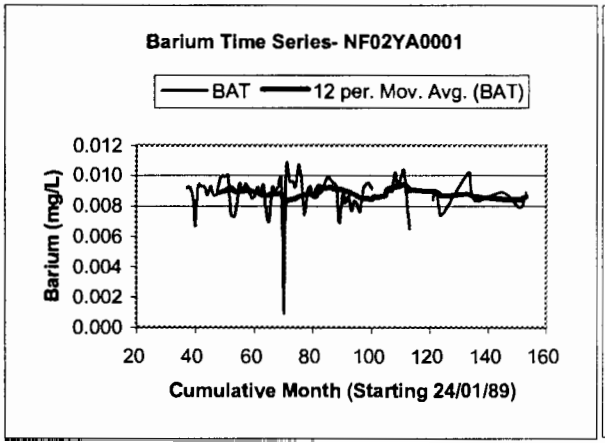

Nitrate & Nitrite Time Series- NF02YA0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

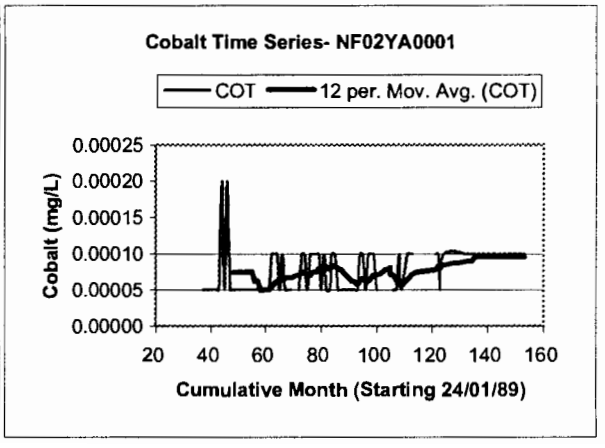

Aluminium Time Series- NF02YA0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

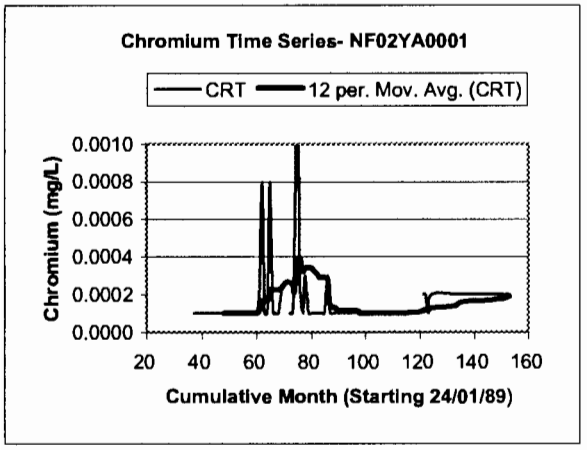

Beryllium Time Series- NF02YA0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

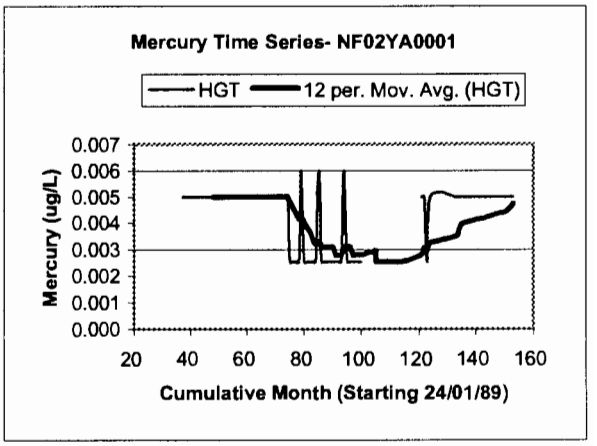

Arsenic Time Series- NF02YA0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

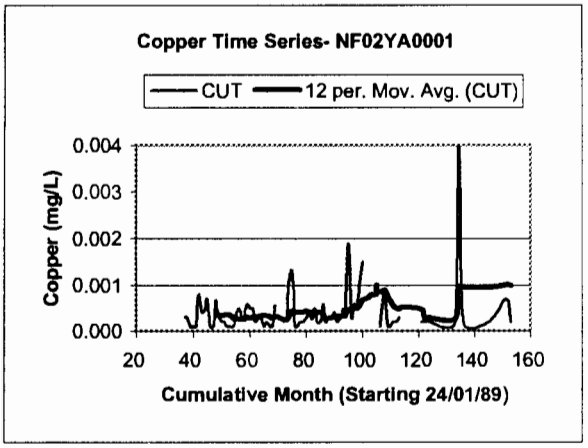

Cadmium Time Series- NF02YA0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

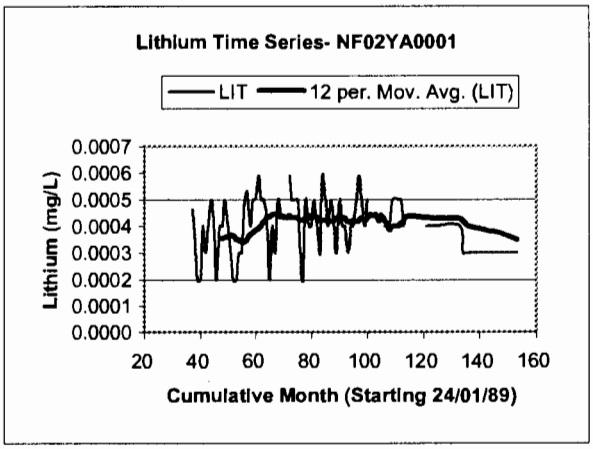

Barium Time Series- NF02YA0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

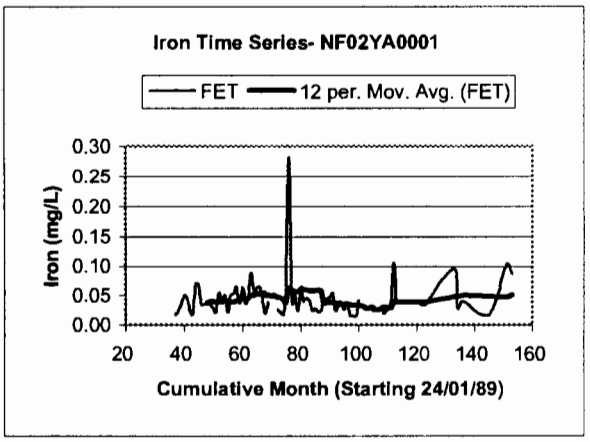

Cobalt Time Series- NF02YA0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

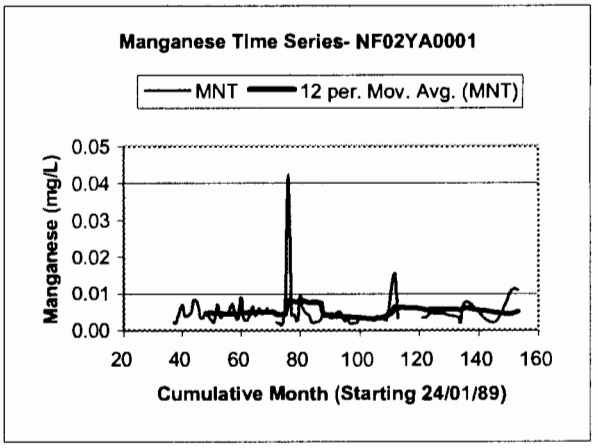

Chromium Time Series- NF02YA0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

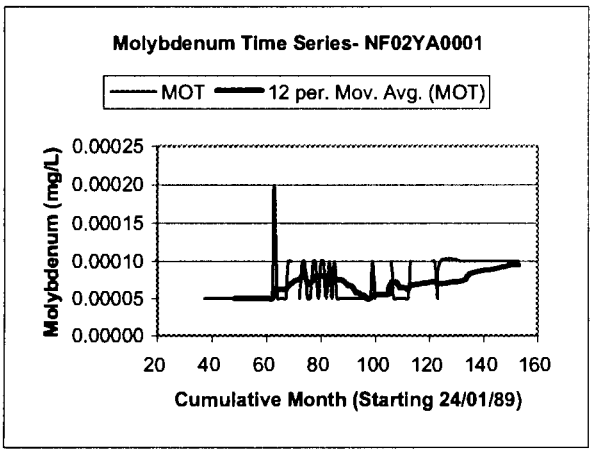

Mercury Time Series- NF02YA0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

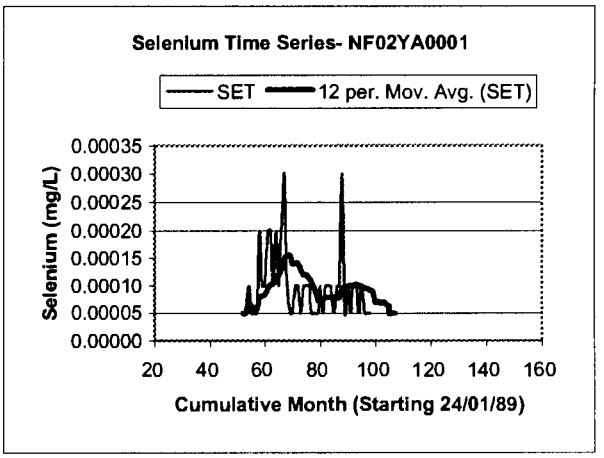

Copper Time Series- NF02YA0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.004
0.003
0.002
0.001
0.000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

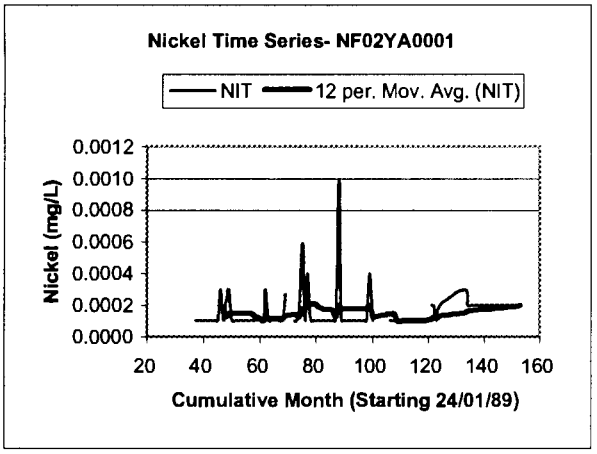

Lithium Time Series- NF02YA0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

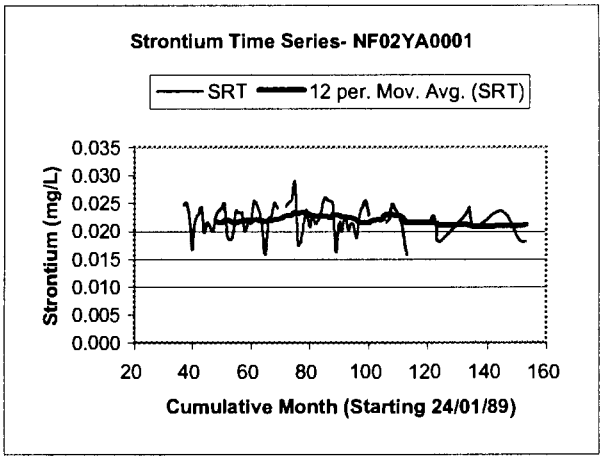

Iron Time Series- NF02YA0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

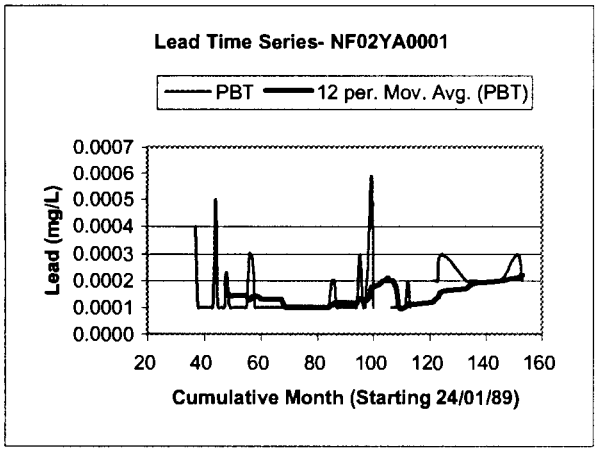

Manganese Time Series- NF02YA0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

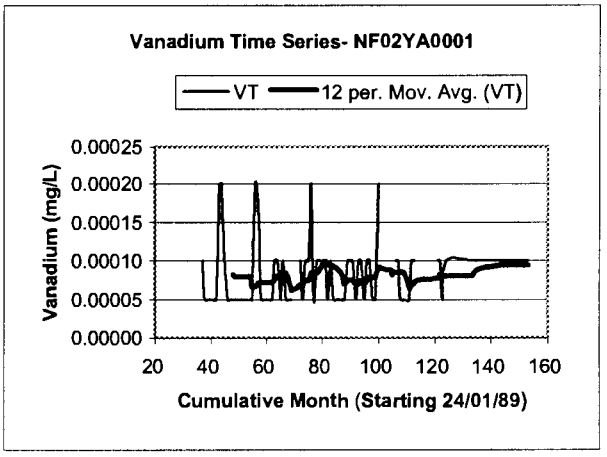

Molybdenum Time Series- NF02YA0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

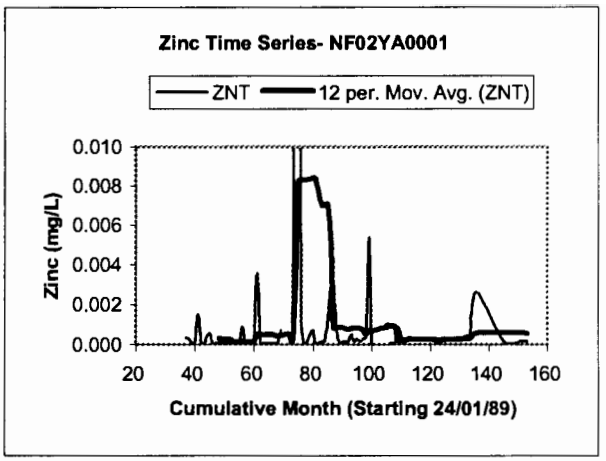

Selenium Time Series- NF02YA0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)


Nickel Time Series- NF02YA0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

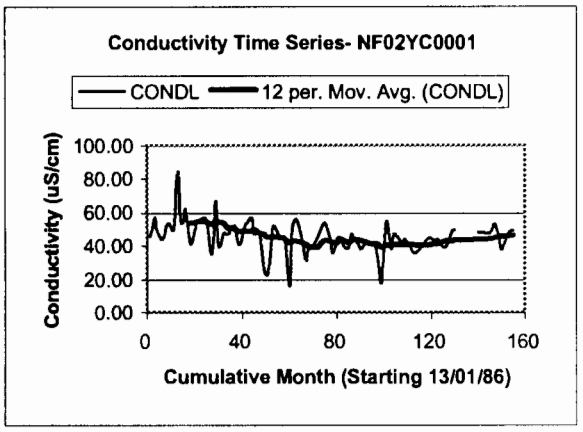

Strontium Time Series- NF02YA0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

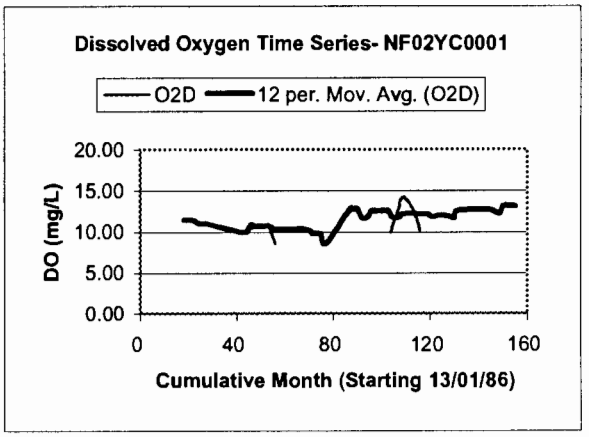

Lead Time Series- NF02YA0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

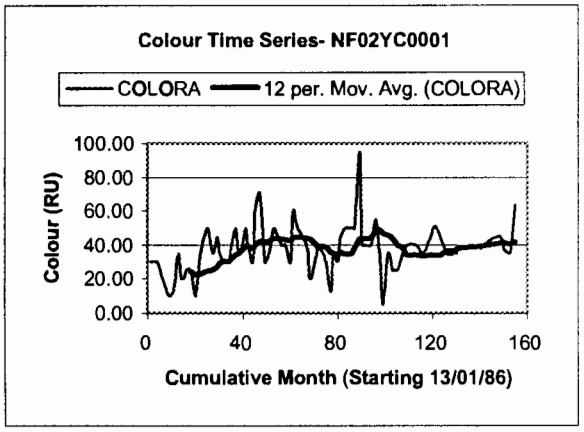

Vanadium Time Series- NF02YA0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140 160
Cumulative Month (Starting 24/01/89)

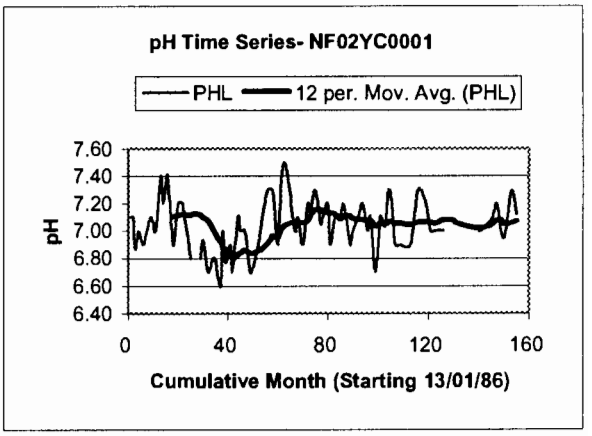

Zinc Time Series- NF02YA0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
20
40
60
80
100
120
140
160
Cumulative Month (Starting 24/01/89)

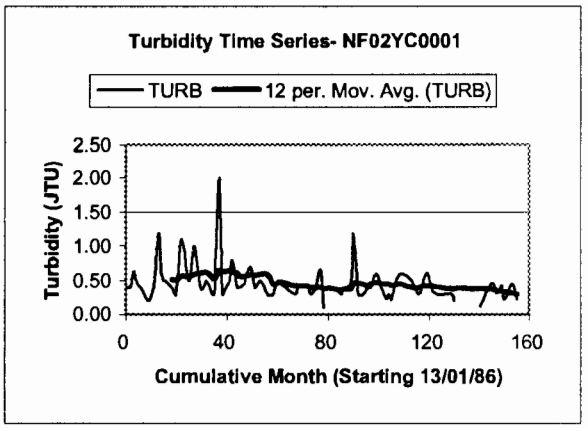
Time Series Plots of Torrent River- NF02YC0001

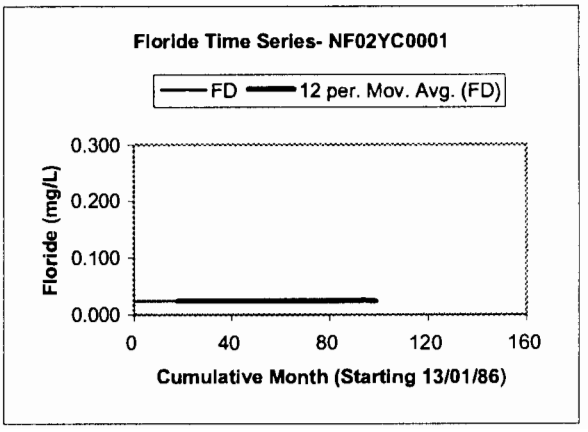




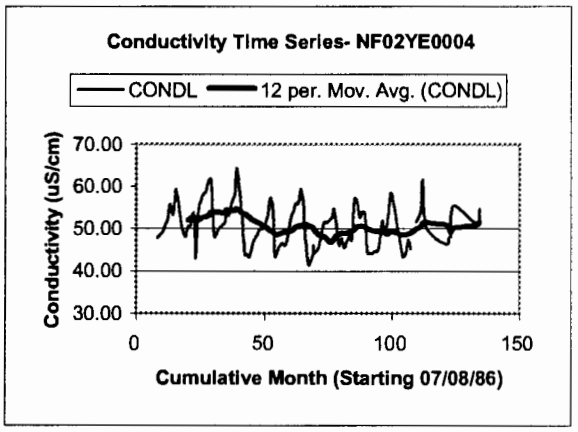


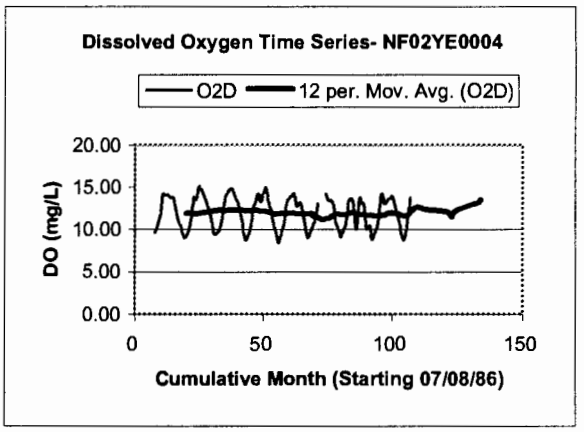


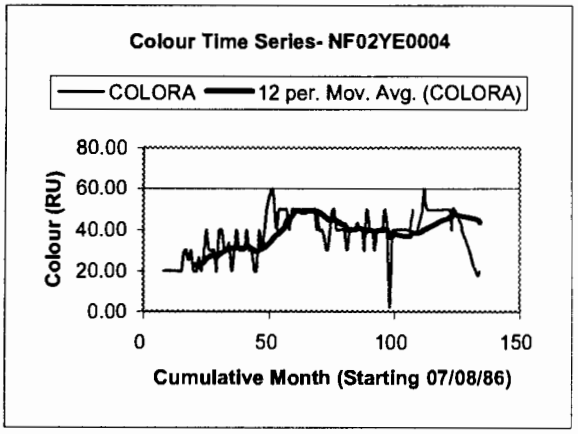


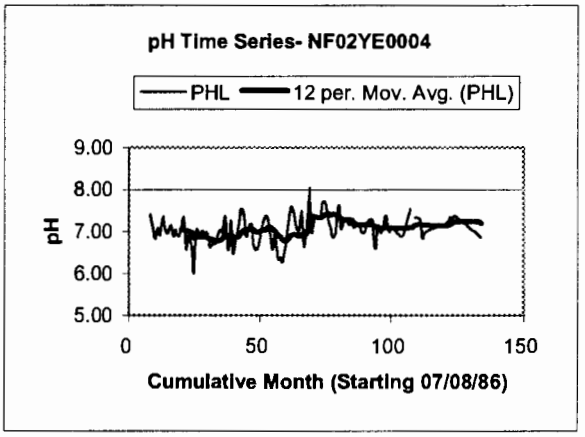


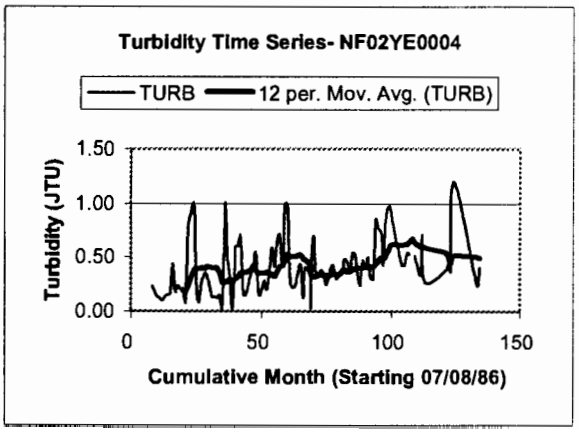
Time Series Plots of Portland Creek- NF02YE0004

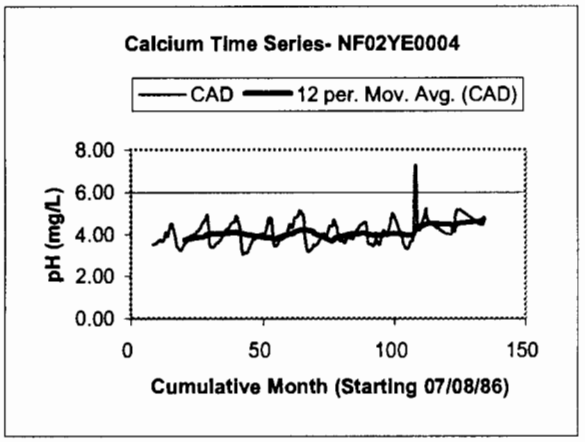


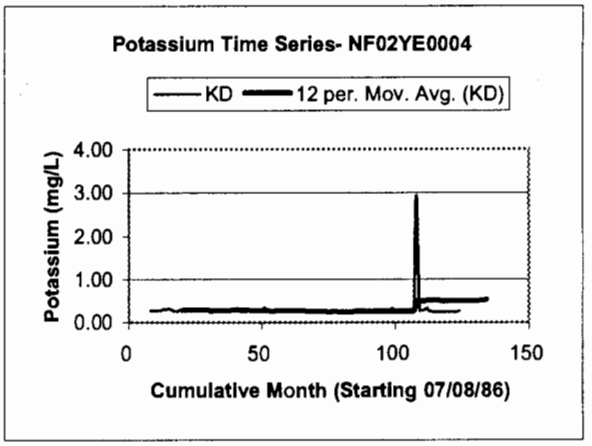


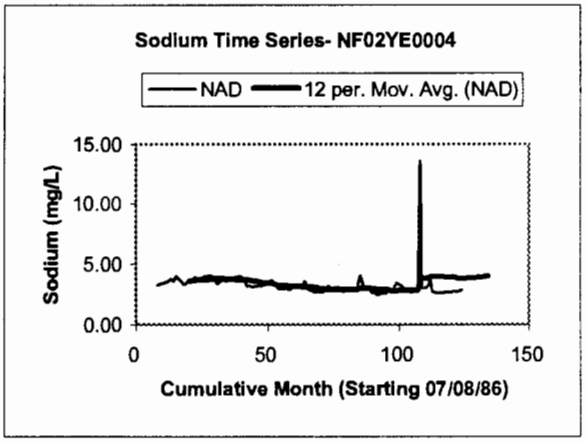


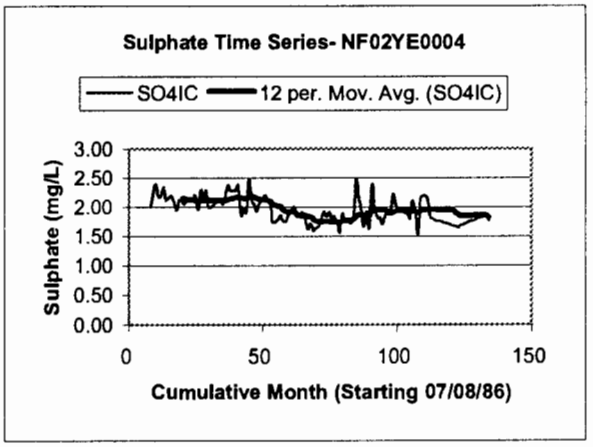


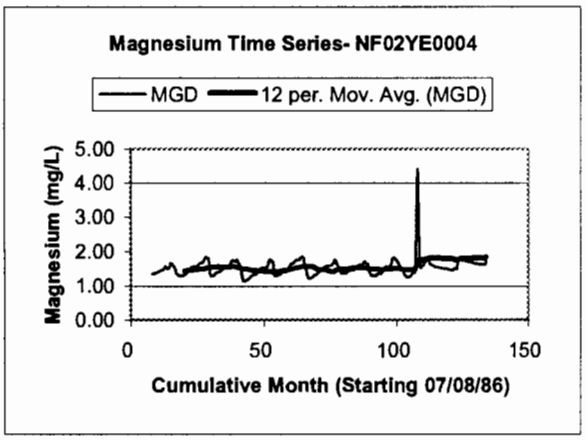


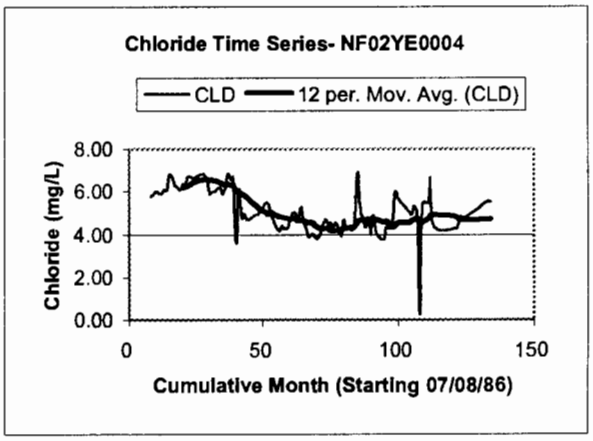

Calcium Time Series- NF02YE0004
CAD
12 per. Mov. Avg. (CAD)
pH (mg/L)
8.00
6.00
4.00
2.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

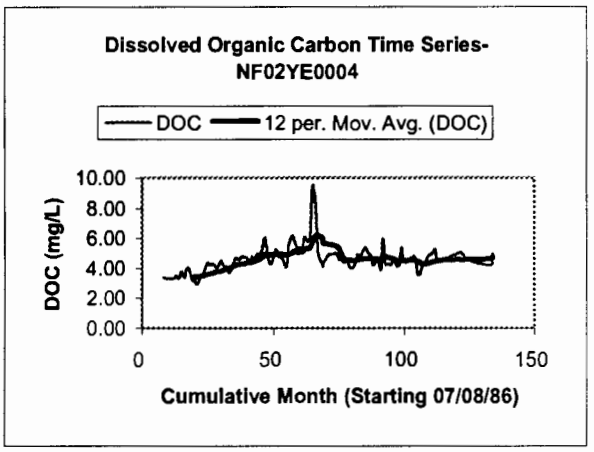

Potassium Time Series- NF02YE0004
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
4.00
3.00
2.00
1.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

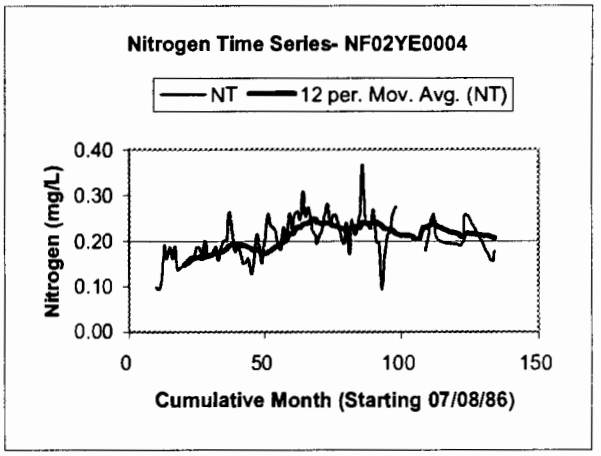

Sodium Time Series- NF02YE0004
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
15.00
10.00
5.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

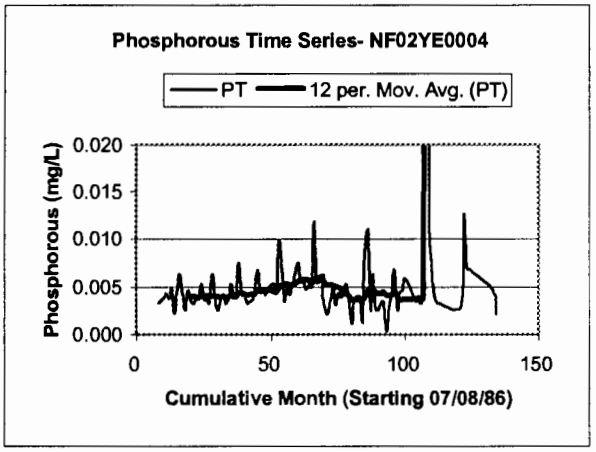

Sulphate Time Series- NF02YE0004
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

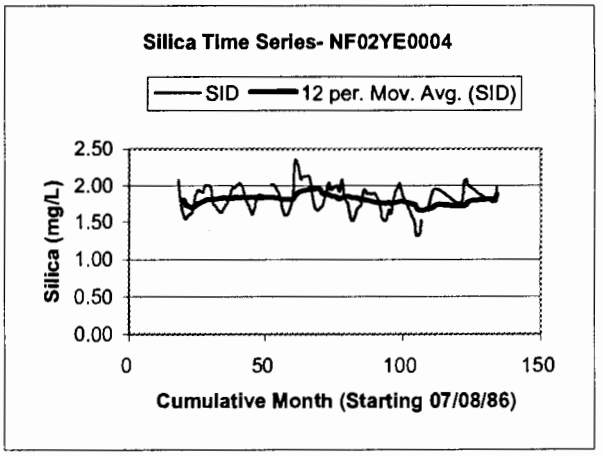

Magnesium Time Series- NF02YE0004
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

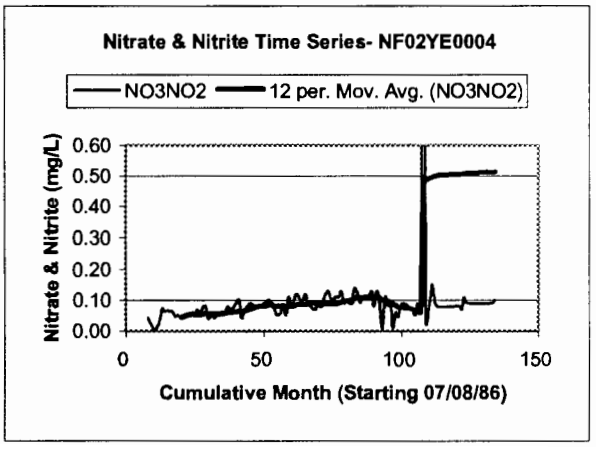

Chloride Time Series- NF02YE0004
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
8.00
6.00
4.00
2.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

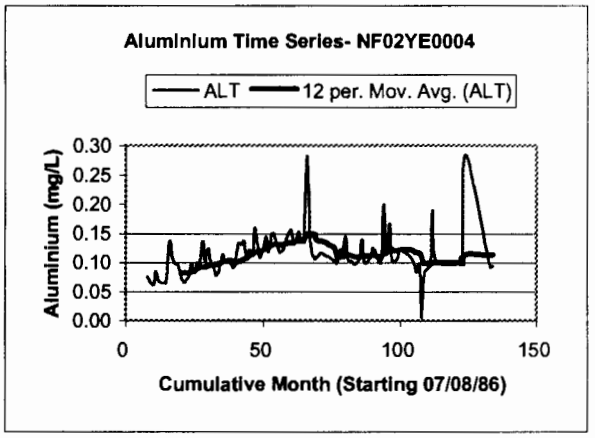

Dissolved Organic Carbon Time Series- NF02YE0004
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

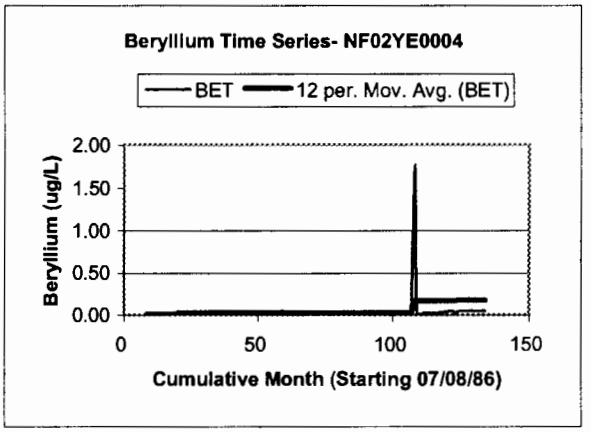

Nitrogen Time Series- NF02YE0004
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

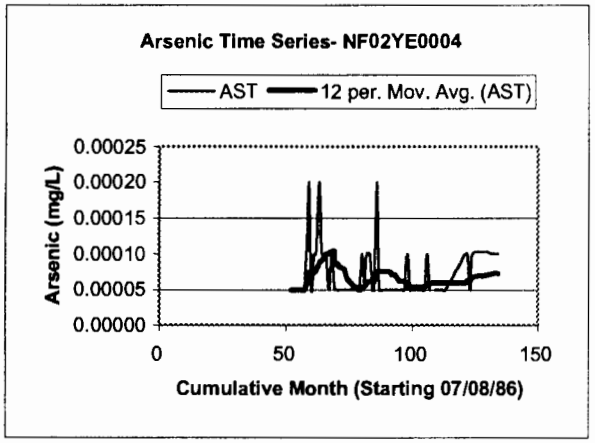

Phosphorous Time Series- NF02YE0004
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
50
100
150
Cumulative Month (Starting 07/08/86)

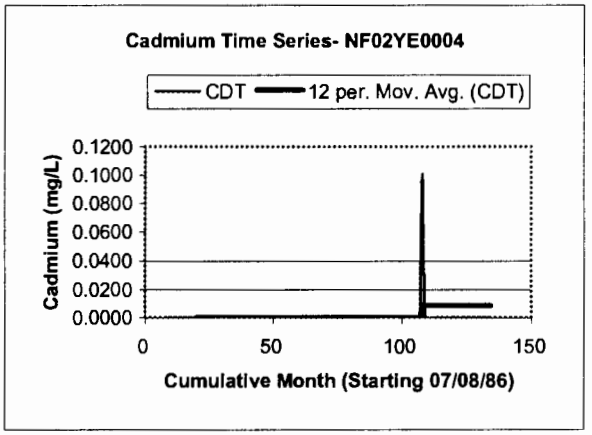

Silica Time Series- NF02YE0004
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

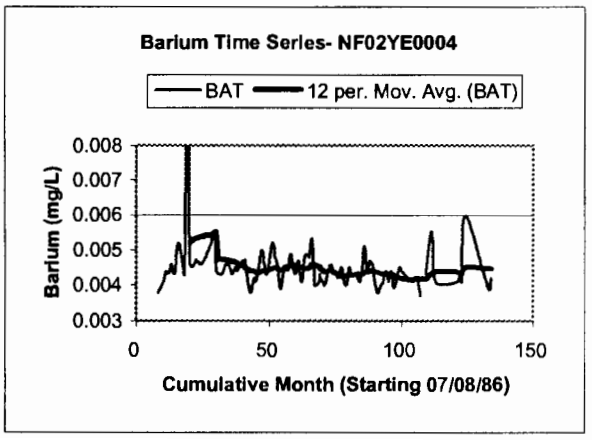

Nitrate & Nitrite Time Series- NF02YE0004
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

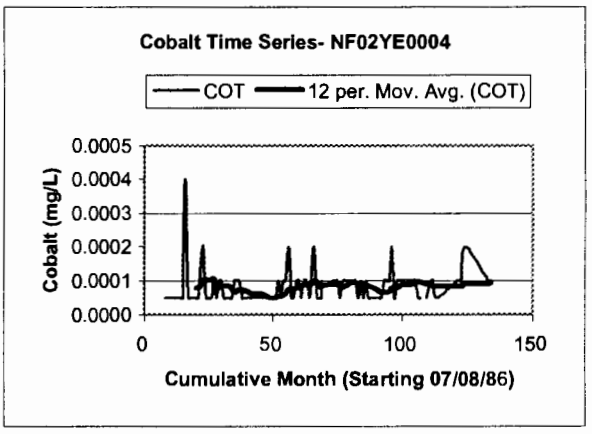

Aluminium Time Series- NF02YE0004
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

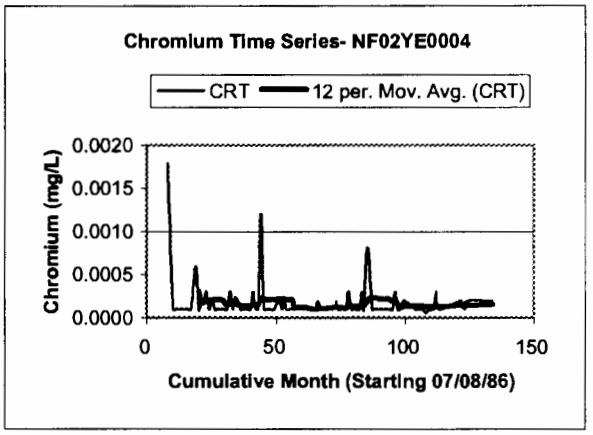

Beryllium Time Series- NF02YE0004
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
2.00
1.50
1.00
0.50
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

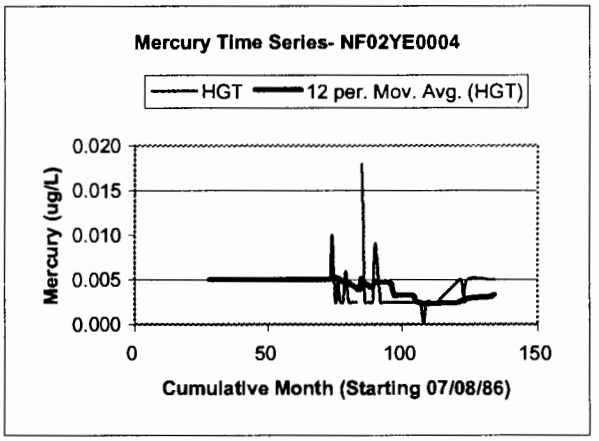

Arsenic Time Series- NF02YE0004
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
50
100
150
Cumulative Month (Starting 07/08/86)

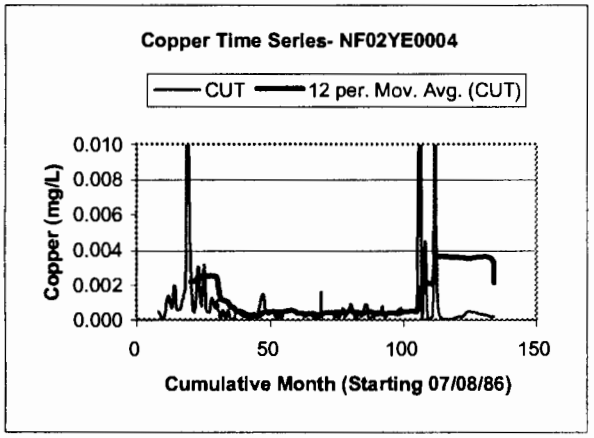

Cadmium Time Series- NF02YE0004
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

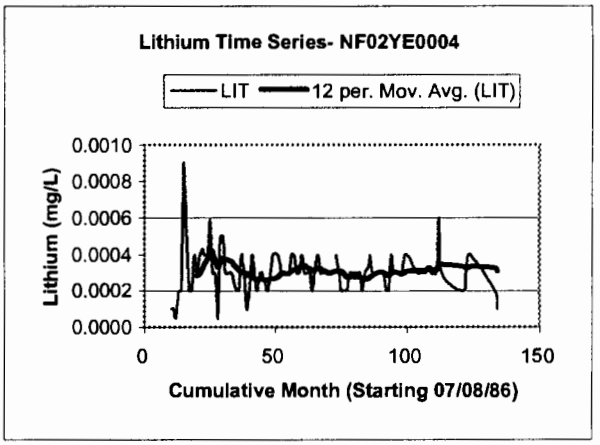

Barium Time Series- NF02YE0004
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0
50
100
150
Cumulative Month (Starting 07/08/86)

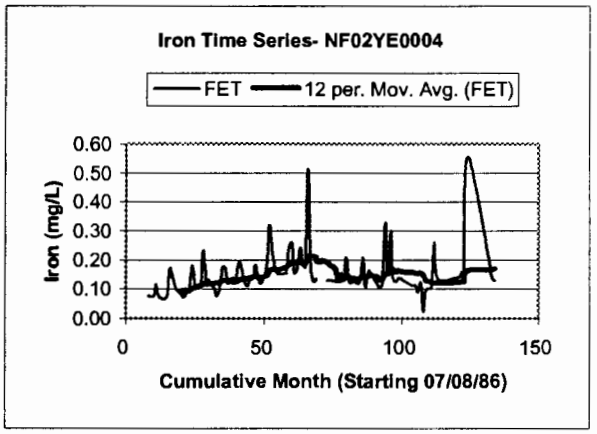

Cobalt Time Series- NF02YE0004
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

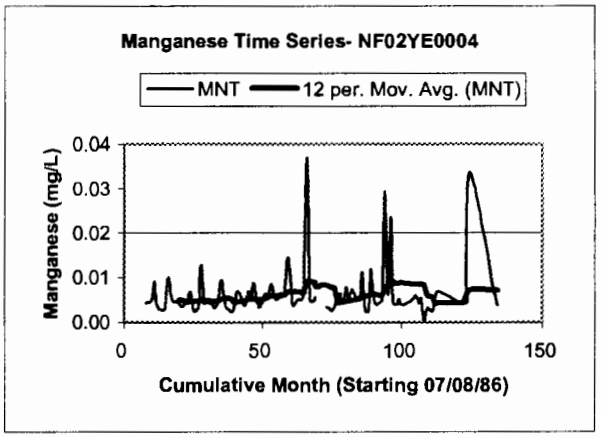

Chromium Time Series- NF02YE0004
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

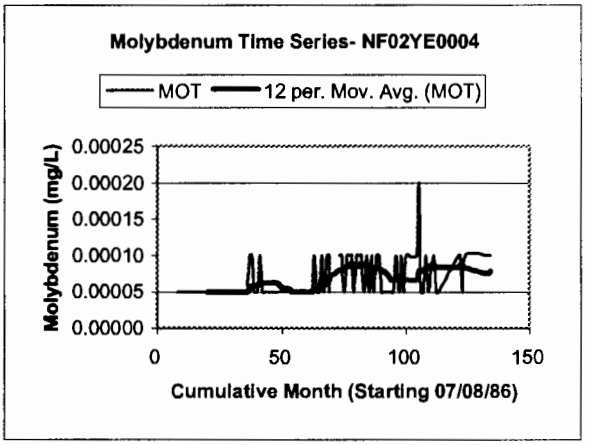

Mercury Time Series- NF02YE0004
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.020
0.015
0.010
0.005
0.000
0
50
100
150
Cumulative Month (Starting 07/08/86)

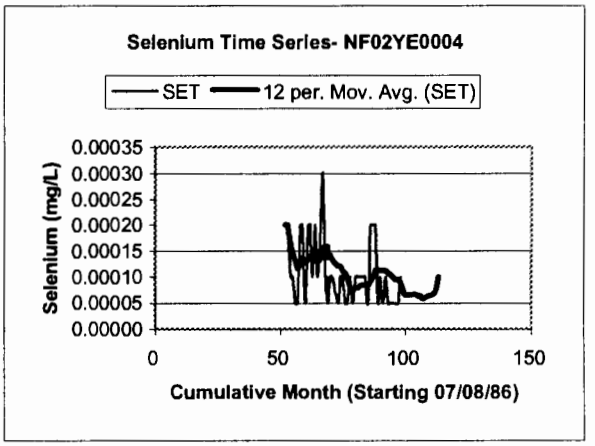

Copper Time Series- NF02YE0004
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
50
100
150
Cumulative Month (Starting 07/08/86)

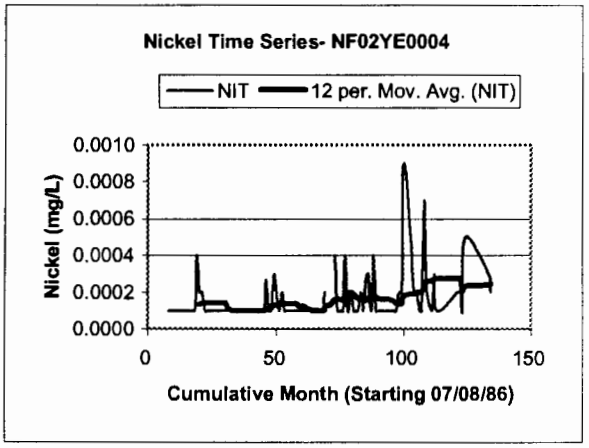

Lithium Time Series- NF02YE0004
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

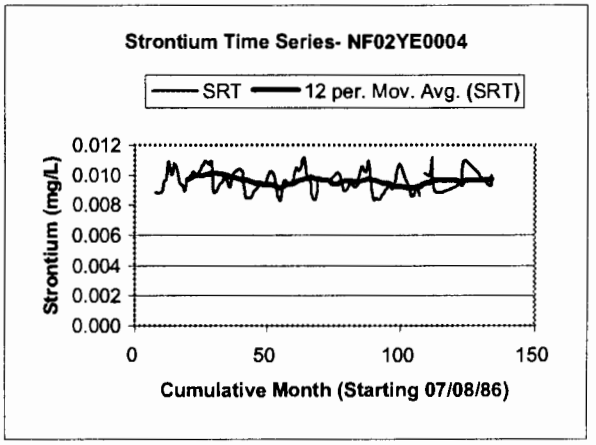

Iron Time Series- NF02YE0004
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

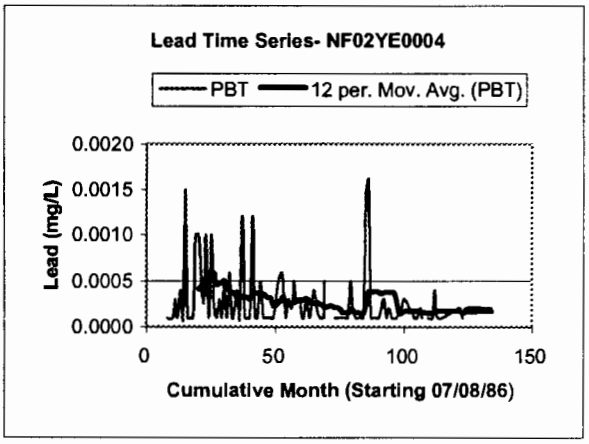

Manganese Time Series- NF02YE0004
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.04
0.03
0.02
0.01
0.00
0
50
100
150
Cumulative Month (Starting 07/08/86)

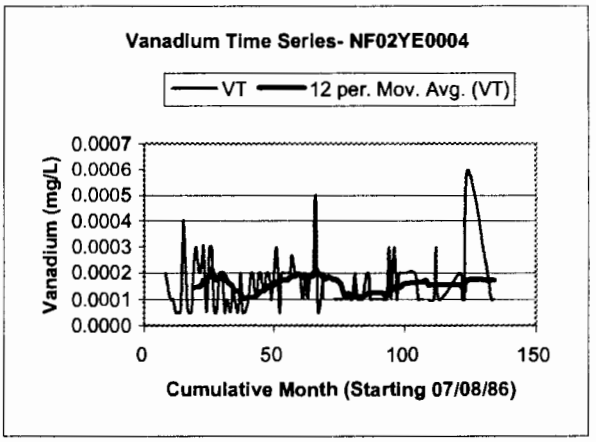

Molybdenum Time Series- NF02YE0004
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
50
100
150
Cumulative Month (Starting 07/08/86)

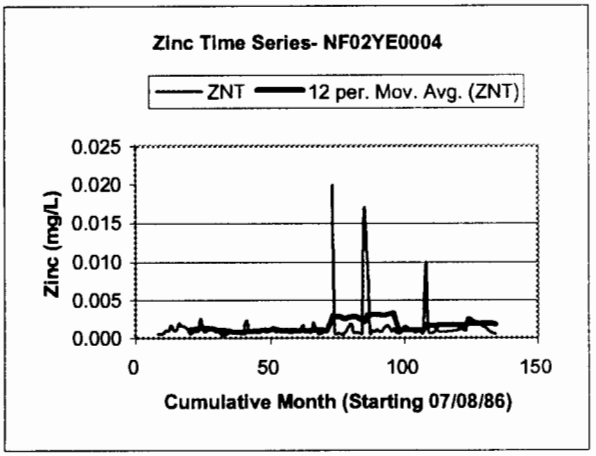

Selenium Time Series- NF02YE0004
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
50
100
150
Cumulative Month (Starting 07/08/86)


Nickel Time Series- NF02YE0004
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

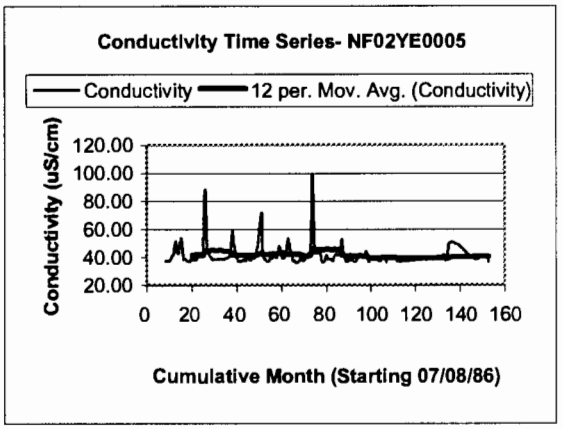

Strontium Time Series- NF02YE0004
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
50
100
150
Cumulative Month (Starting 07/08/86)

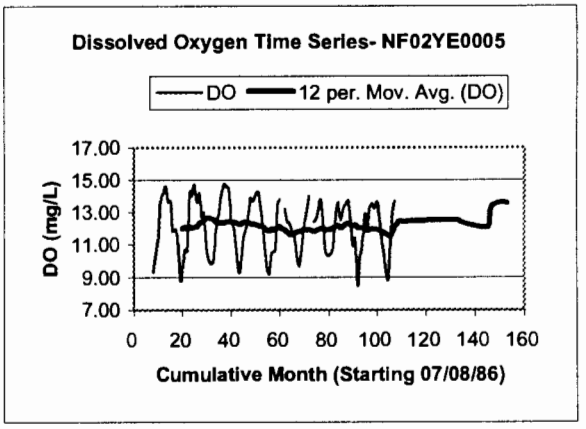

Lead Time Series- NF02YE0004
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

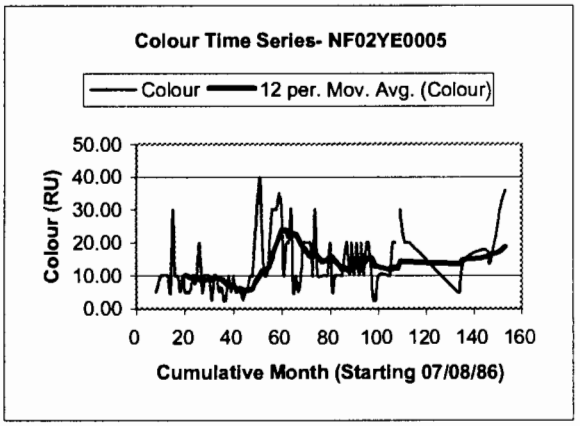

Vanadium Time Series- NF02YE0004
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
50
100
150
Cumulative Month (Starting 07/08/86)

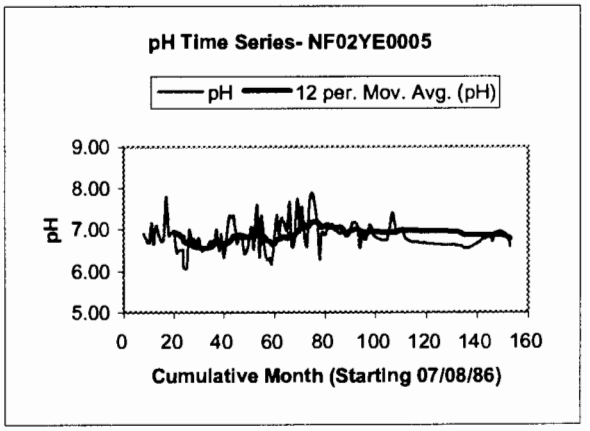

Zinc Time Series- NF02YE0004
ZNT
12 per. Mov. Avg. (ZNT)
0.025
0.020
0.015
0.010
0.005
0.000
Zinc (mg/L)
0
50
100
150
Cumulative Month (Starting 07/08/86)

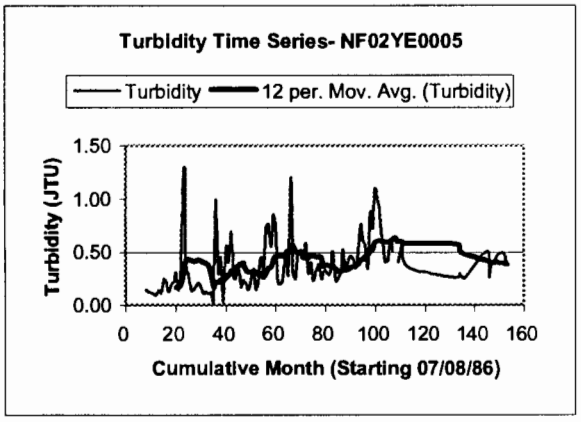
Time Series Plots of Western Brook- NF02YE0005

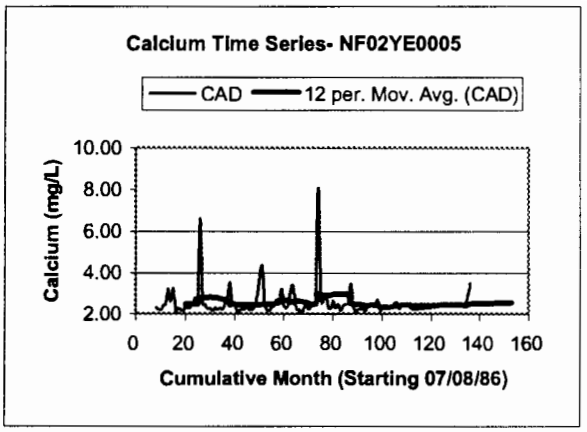


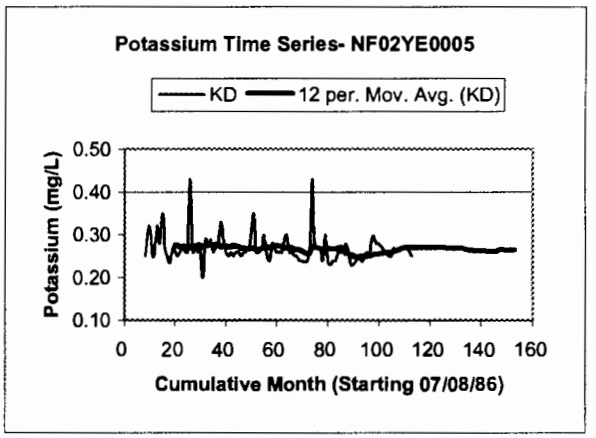


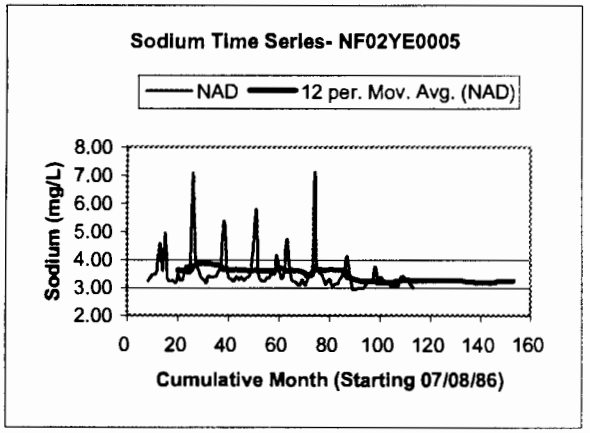


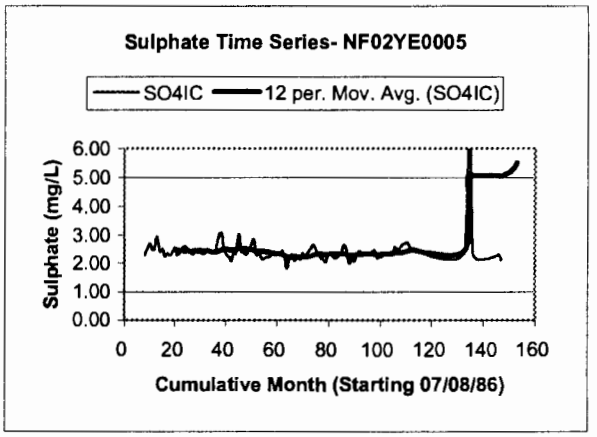


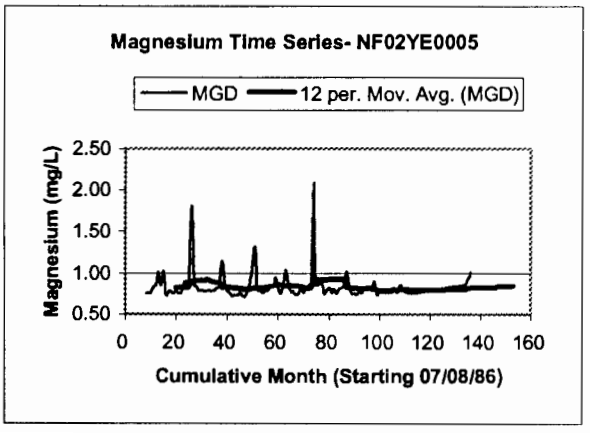


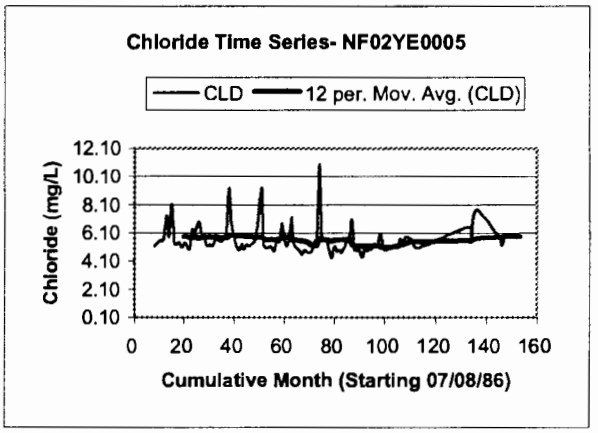

Calcium Time Series- NF02YE0005
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
10.00
8.00
6.00
4.00
2.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

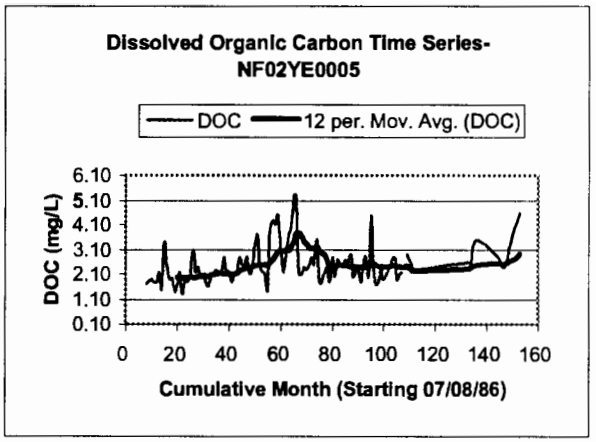

Potassium Time Series- NF02YE0005
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

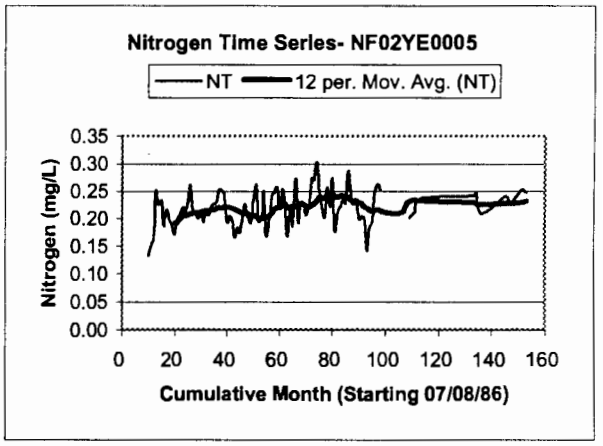

Sodium Time Series- NF02YE0005
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

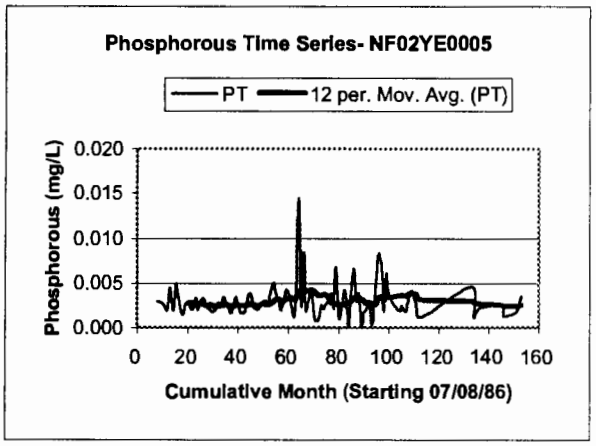

Sulphate Time Series- NF02YE0005
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

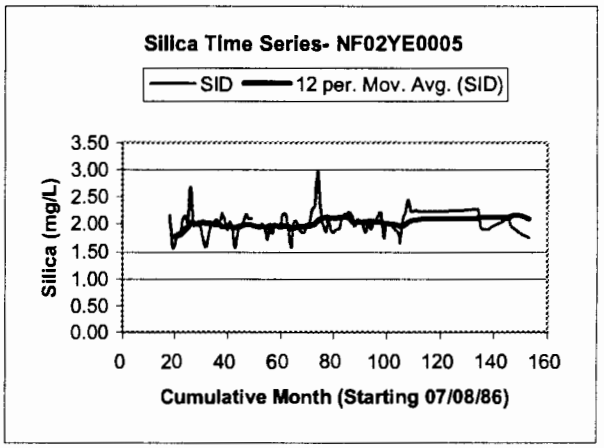

Magnesium Time Series- NF02YE0005
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.50
2.00
1.50
1.00
0.50
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

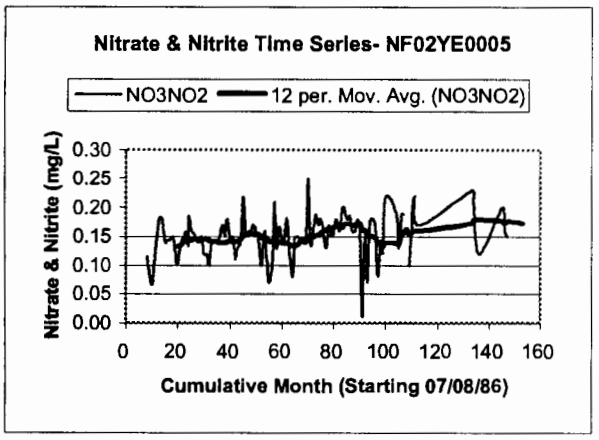

Chloride Time Series- NF02YE0005
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.10
10.10
8.10
6.10
4.10
2.10
0.10
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

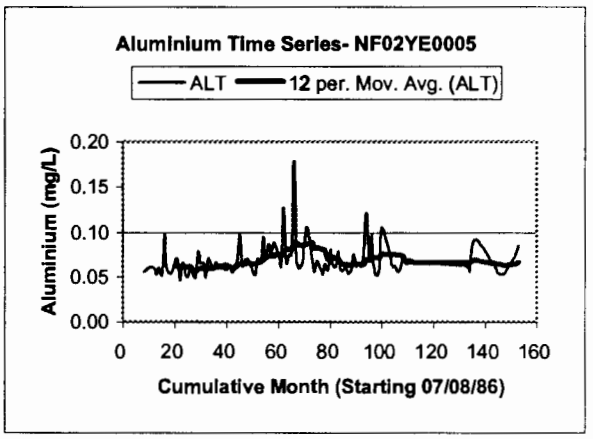

Dissolved Organic Carbon Time Series- NF02YE0005
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
6.10
5.10
4.10
3.10
2.10
1.10
0.10
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

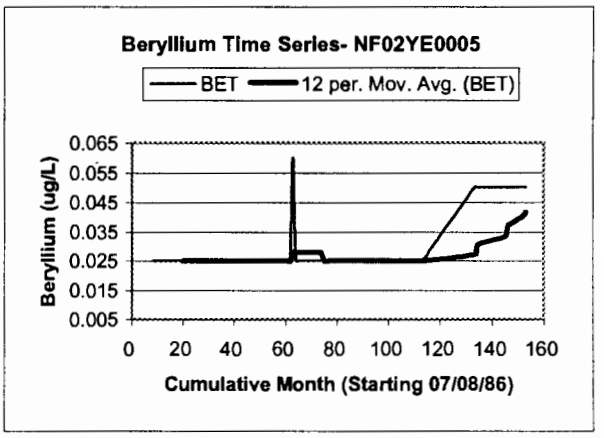

Nitrogen Time Series- NF02YE0005
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

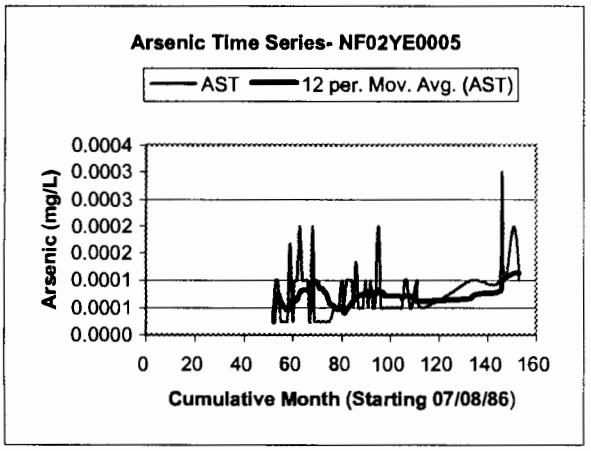

Phosphorous Time Series- NF02YE0005
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

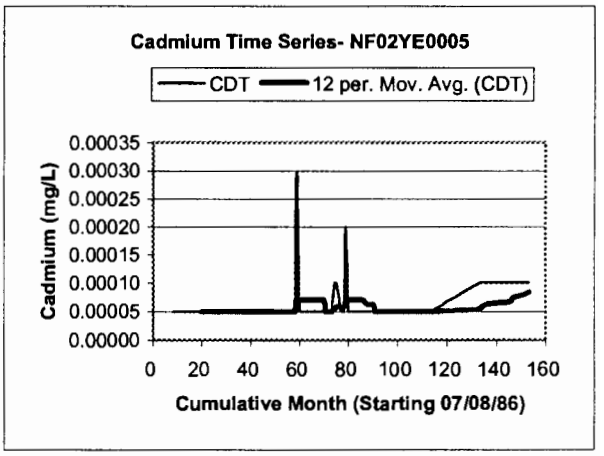

Silica Time Series- NF02YE0005
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

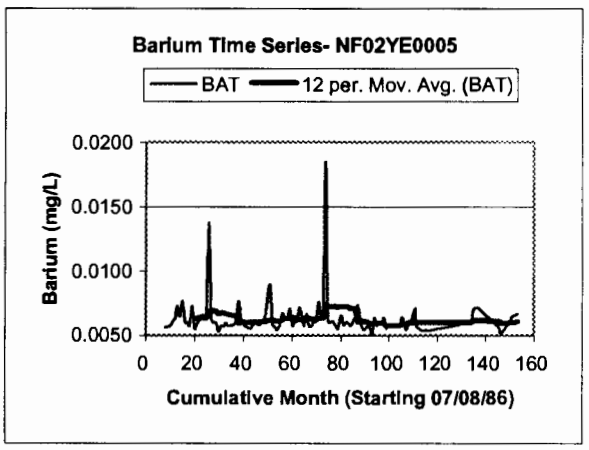

Nitrate & Nitrite Time Series- NF02YE0005
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

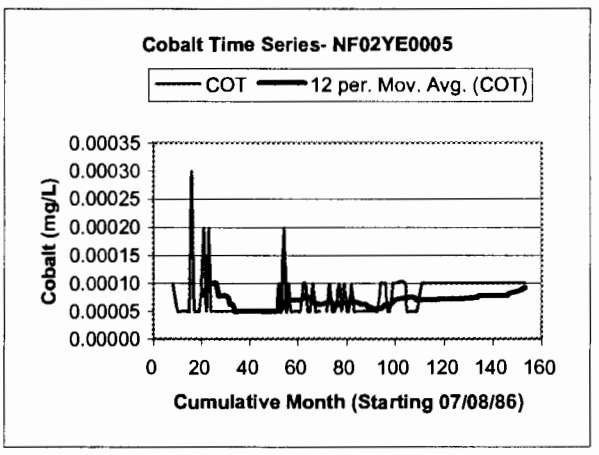

Aluminium Time Series- NF02YE0005
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

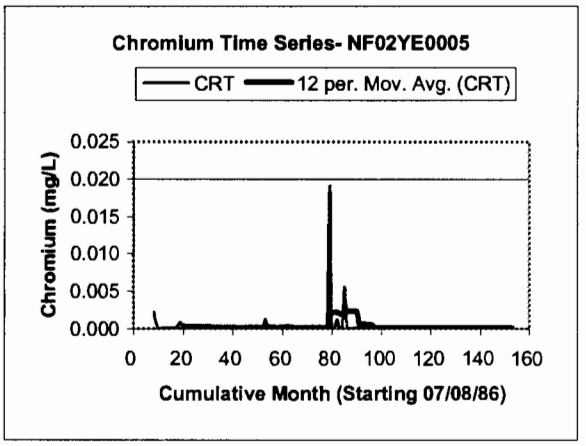

Beryllium Time Series- NF02YE0005
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.065
0.055
0.045
0.035
0.025
0.015
0.005
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

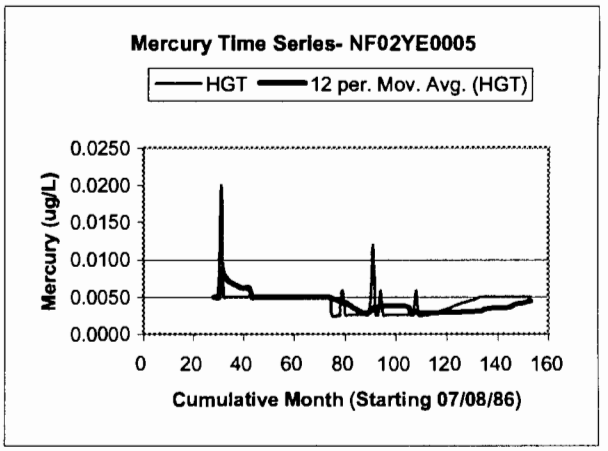

Arsenic Time Series- NF02YE0005
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0004
0.0003
0.0003
0.0002
0.0002
0.0001
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

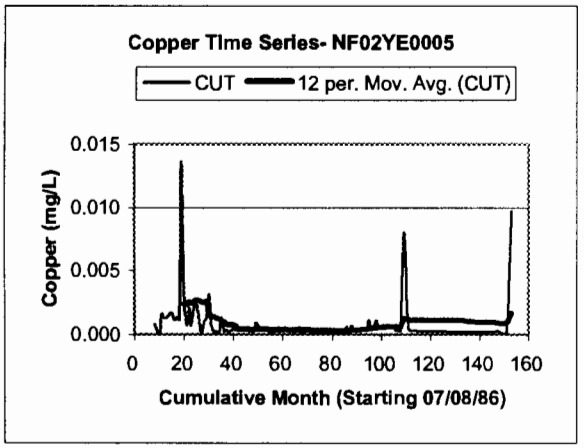

Cadmium Time Series- NF02YE0005
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

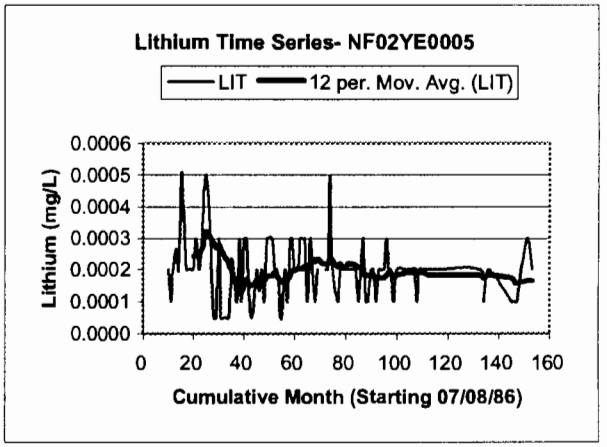

Barium Time Series- NF02YE0005
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.0200
0.0150
0.0100
0.0050
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

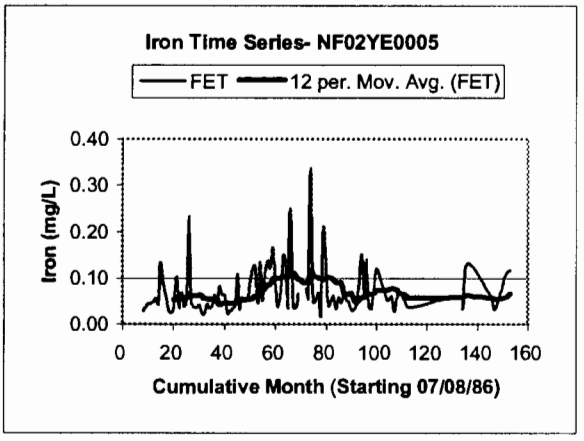

Cobalt Time Series- NF02YE0005
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

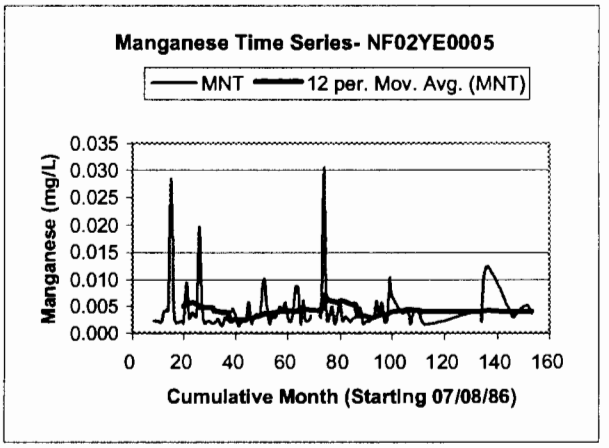

Chromium Time Series- NF02YE0005
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

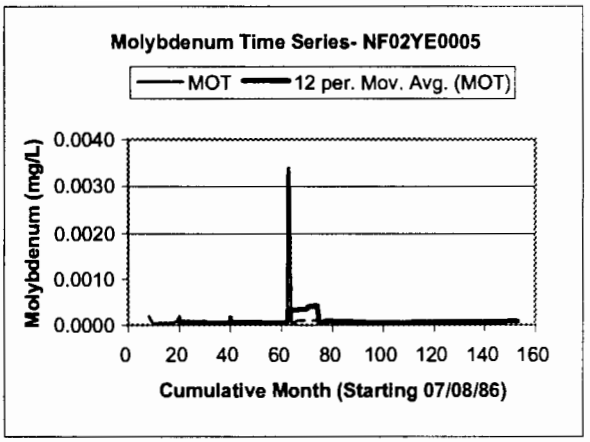

Mercury Time Series- NF02YE0005
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.0250
0.0200
0.0150
0.0100
0.0050
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

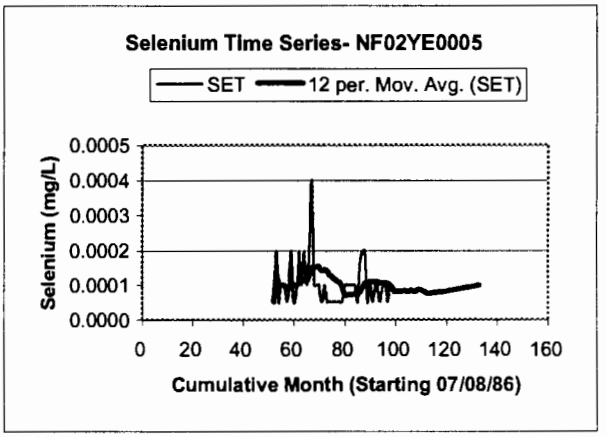

Copper Time Series- NF02YE0005
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

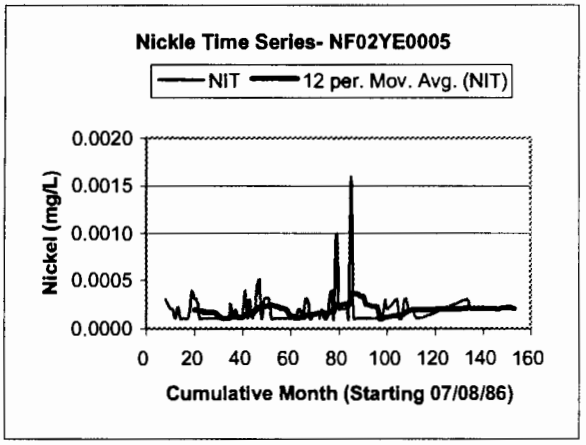

Lithium Time Series- NF02YE0005
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

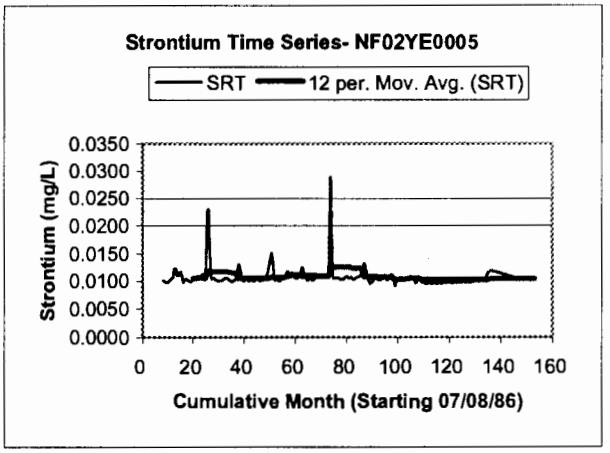

Iron Time Series- NF02YE0005
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

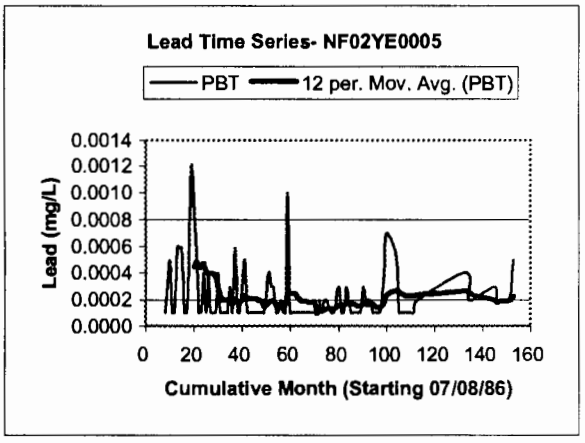

Manganese Time Series- NF02YE0005
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

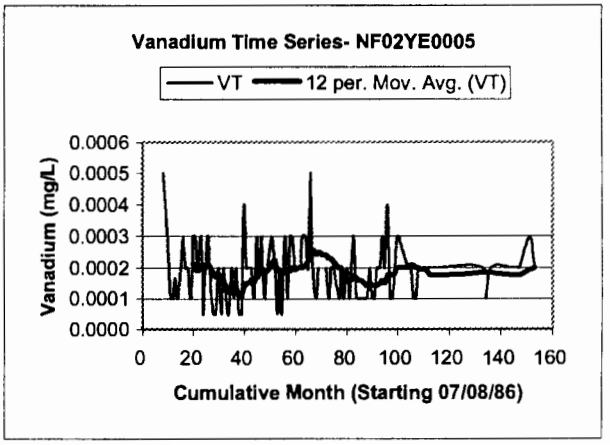

Molybdenum Time Series- NF02YE0005
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0040
0.0030
0.0020
0.0010
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

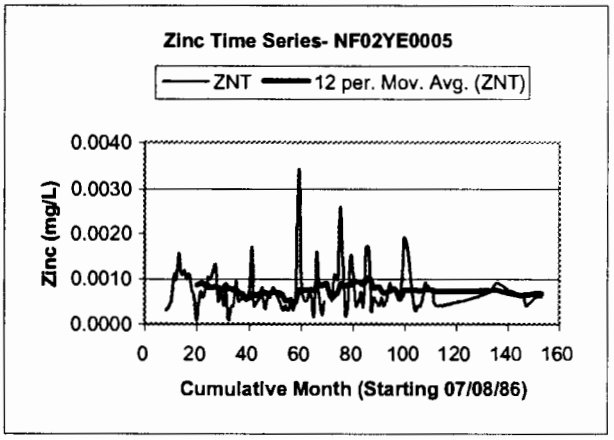

Selenium Time Series- NF02YE0005
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)


Nickle Time Series- NF02YE0005
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

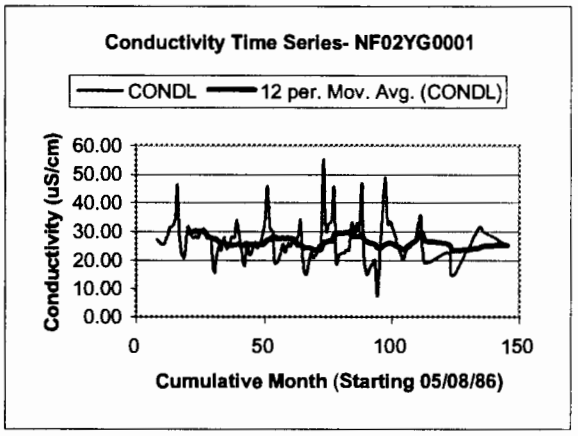

Strontium Time Series- NF02YE0005
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.0350
0.0300
0.0250
0.0200
0.0150
0.0100
0.0050
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

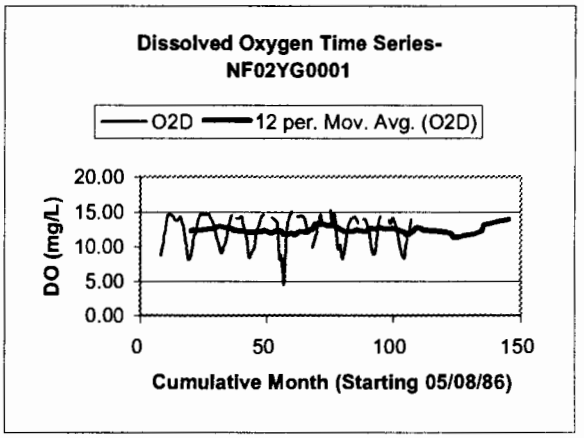

Lead Time Series- NF02YE0005
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

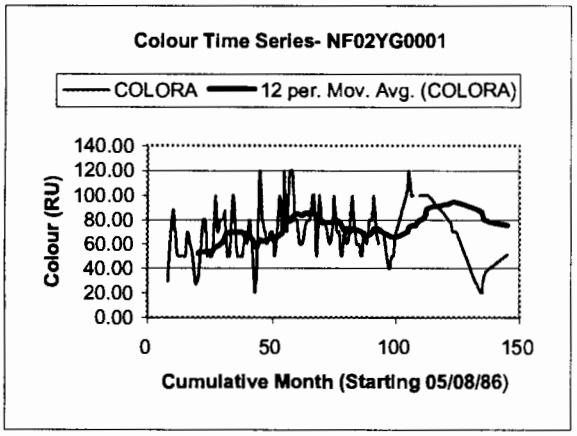

Vanadium Time Series- NF02YE0005
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 07/08/86)

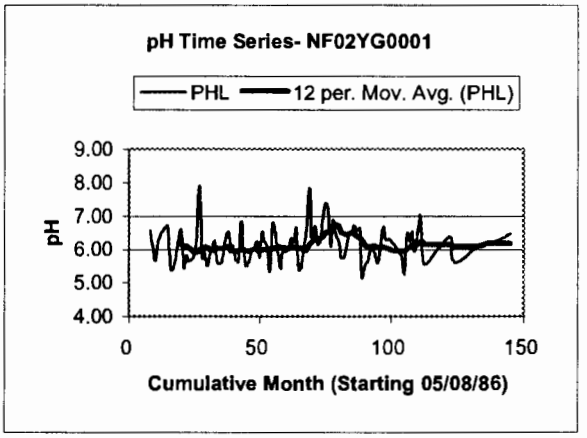

Zinc Time Series- NF02YE0005
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0040
0.0030
0.0020
0.0010
0.0000
0
20
40
60
80
100
120
140
160
Cumulative Month (Starting 07/08/86)

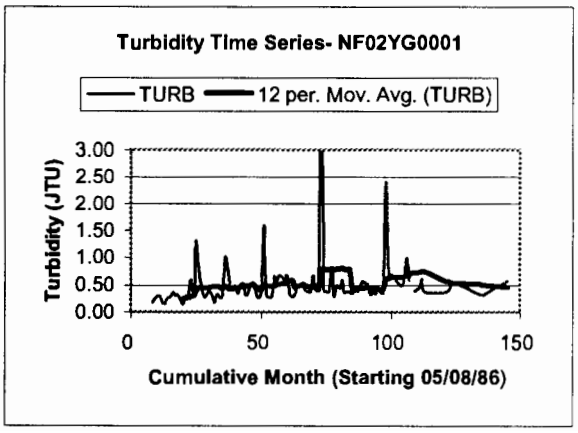
Time Series Plots of Main River- NF02YG0001

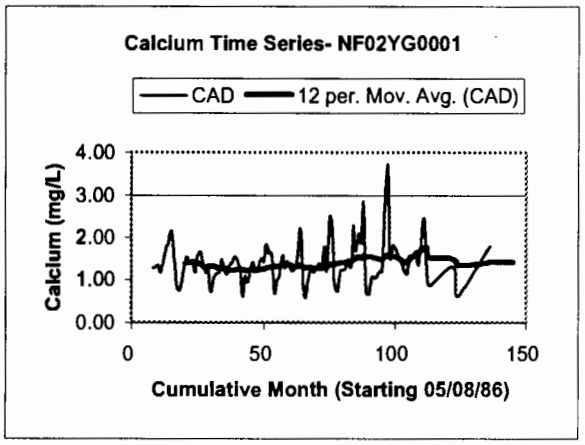


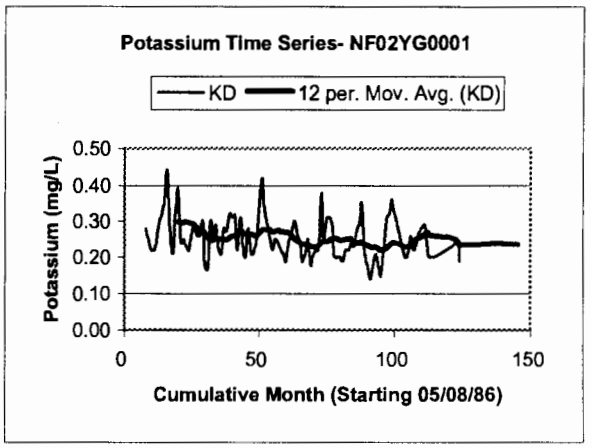


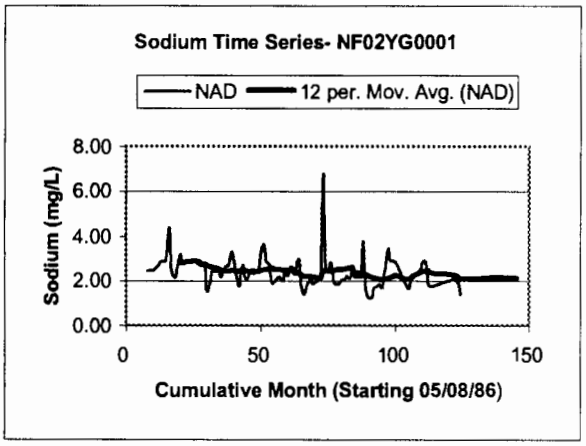


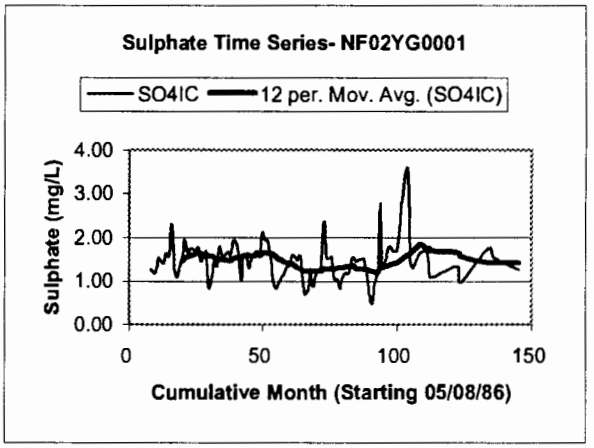


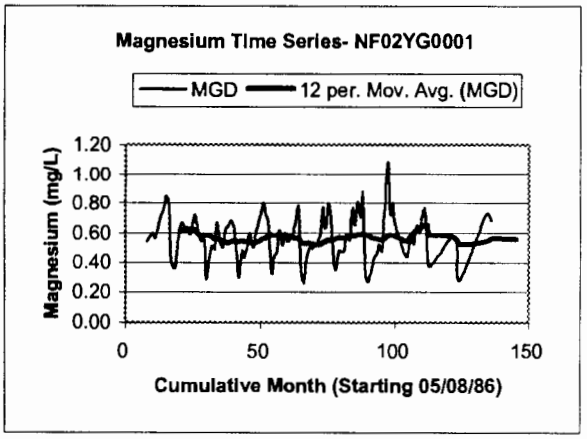


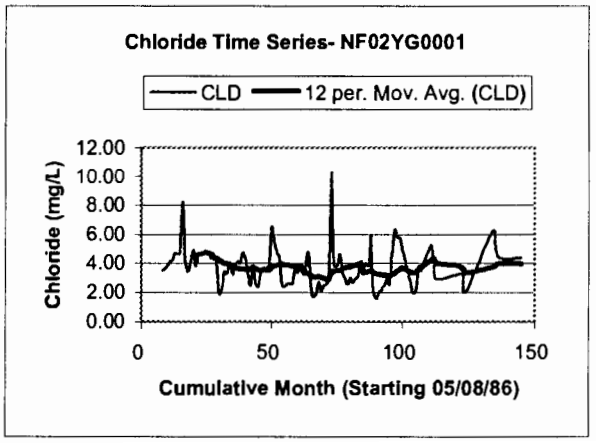

Calcium Time Series- NF02YG0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
4.00
3.00
2.00
1.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

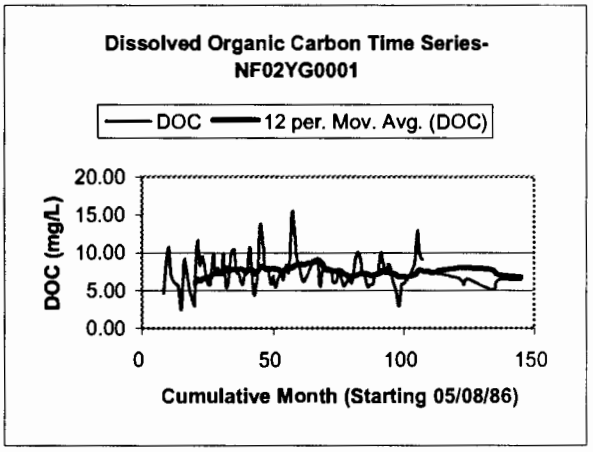

Potassium Time Series- NF02YG0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

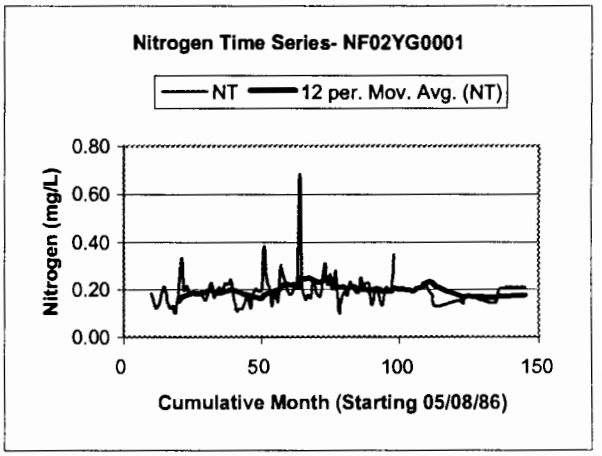

Sodium Time Series- NF02YG0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
8.00
6.00
4.00
2.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

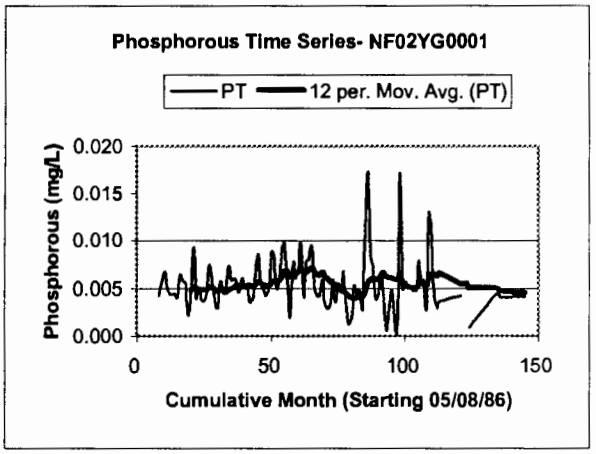

Sulphate Time Series- NF02YG0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

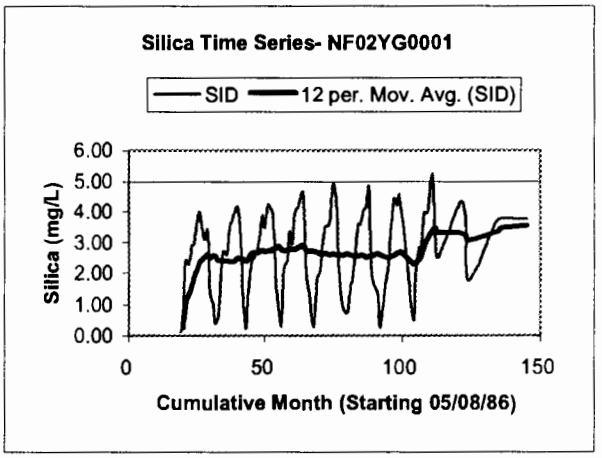

Magnesium Time Series- NF02YG0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

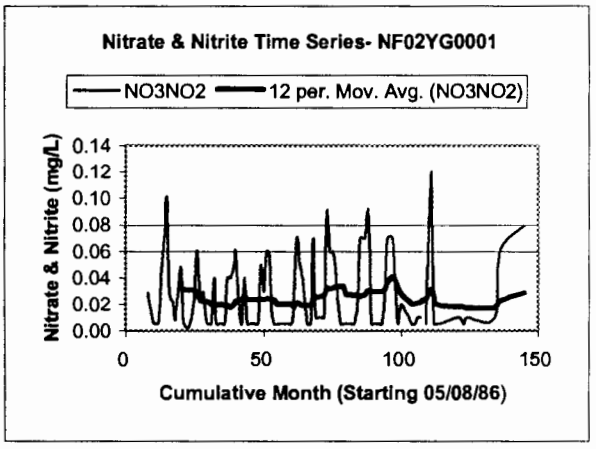

Chloride Time Series- NF02YG0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

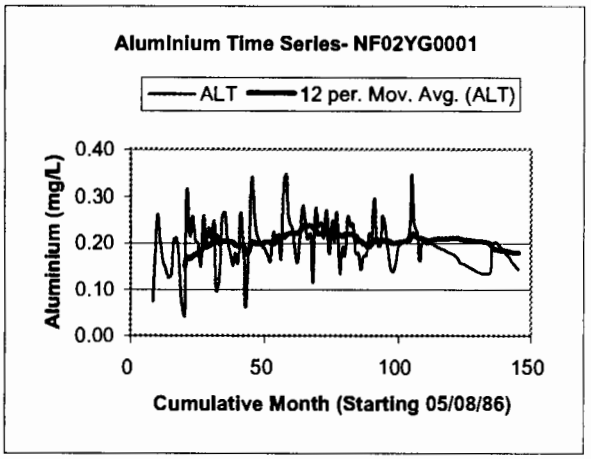

Dissolved Organic Carbon Time Series- NF02YG0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

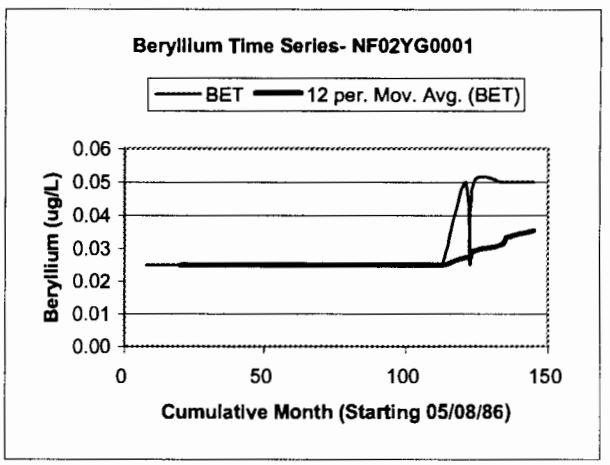

Nitrogen Time Series- NF02YG0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.80
0.60
0.40
0.20
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

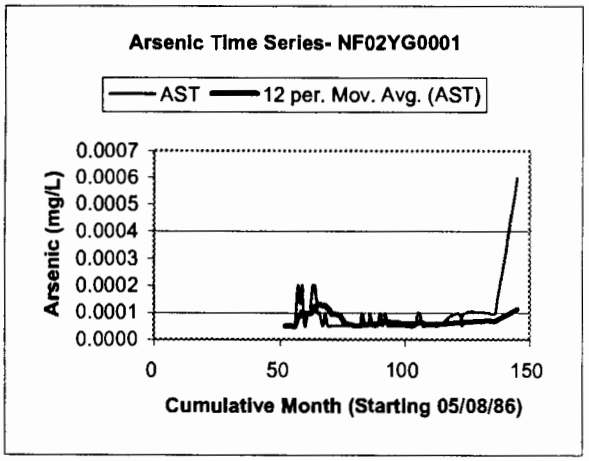

Phosphorous Time Series- NF02YG0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
50
100
150
Cumulative Month (Starting 05/08/86)

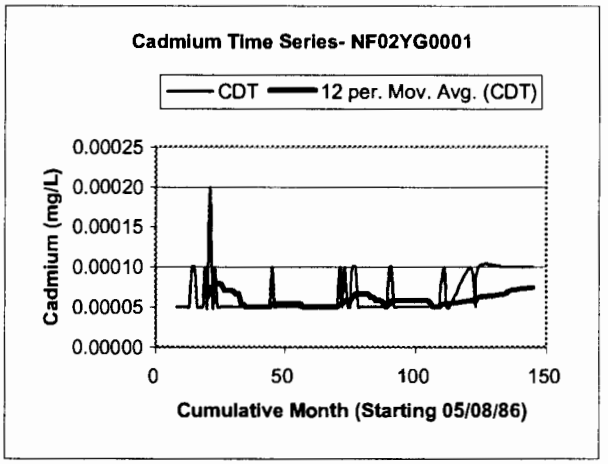

Silica Time Series- NF02YG0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

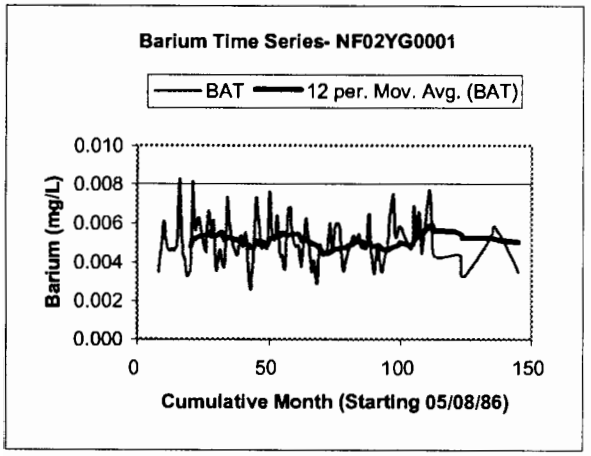

Nitrate & Nitrite Time Series- NF02YG0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

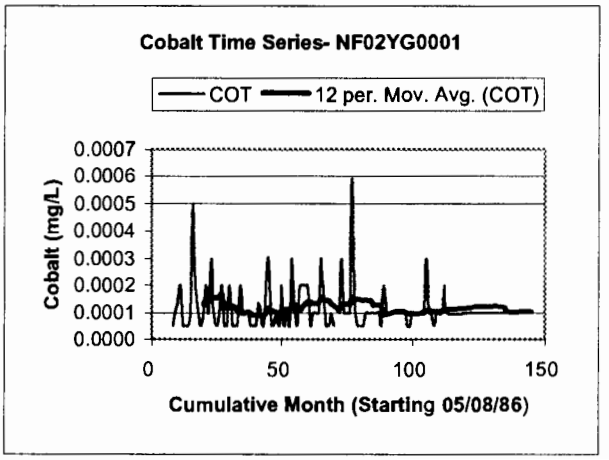

Aluminium Time Series- NF02YG0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

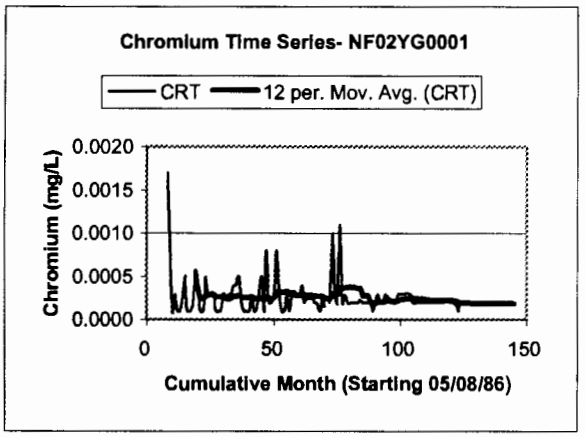

Beryllium Time Series- NF02YG0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

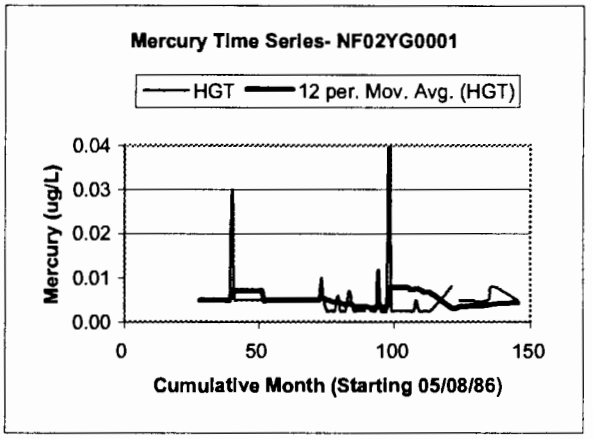

Arsenic Time Series- NF02YG0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

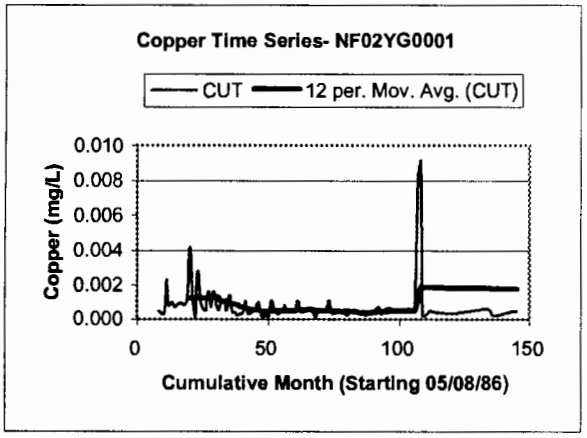

Cadmium Time Series- NF02YG0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
50
100
150
Cumulative Month (Starting 05/08/86)

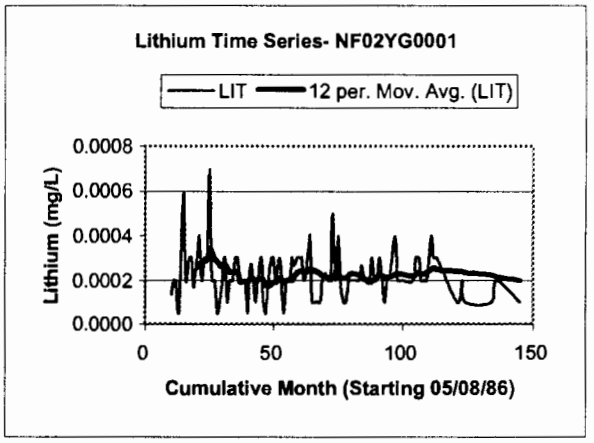

Barium Time Series- NF02YG0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
50
100
150
Cumulative Month (Starting 05/08/86)

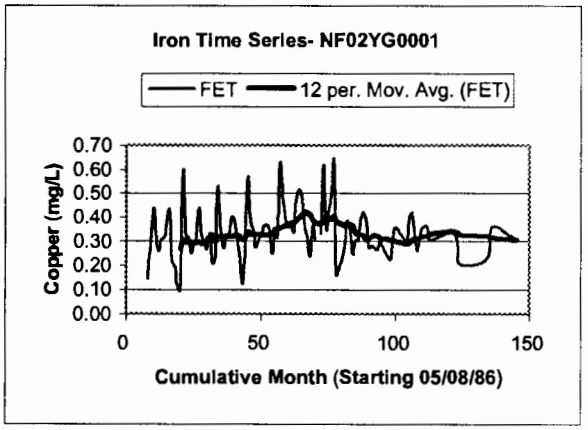

Cobalt Time Series- NF02YG0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

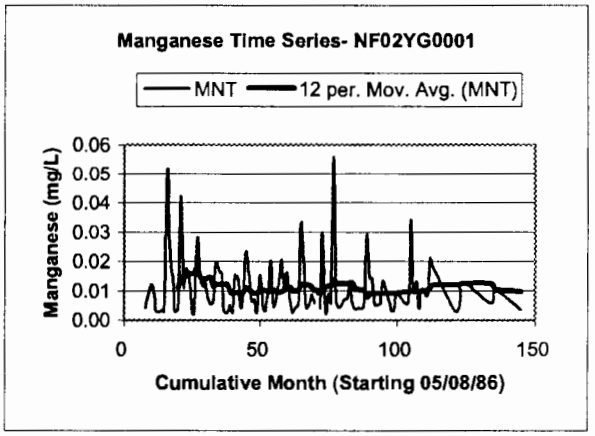

Chromium Time Series- NF02YG0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

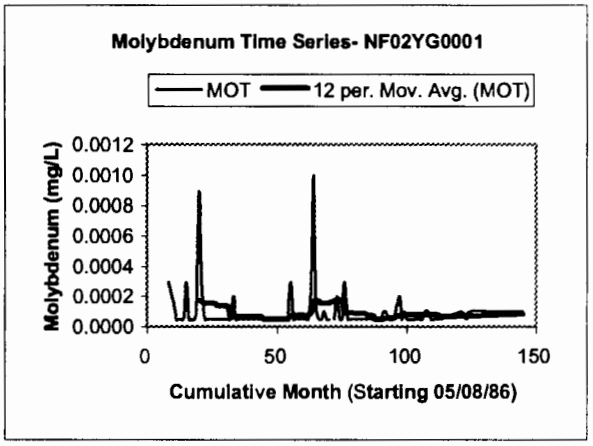

Mercury Time Series- NF02YG0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.04
0.03
0.02
0.01
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

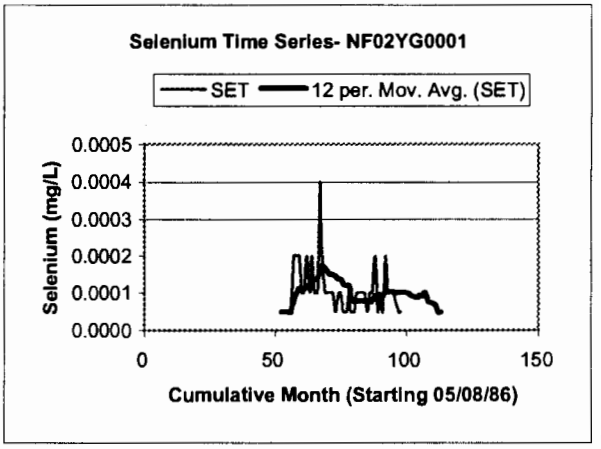

Copper Time Series- NF02YG0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
50
100
150
Cumulative Month (Starting 05/08/86)

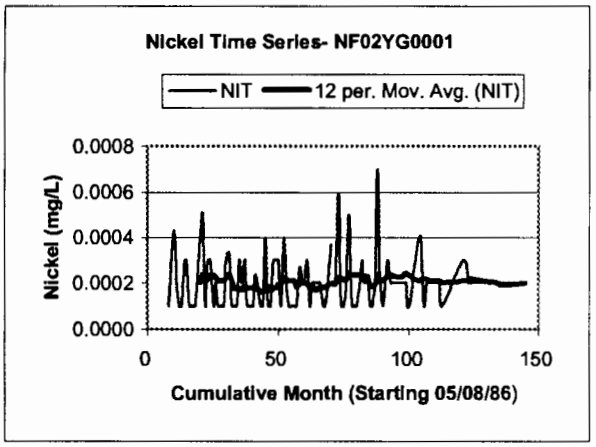

Lithium Time Series- NF02YG0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

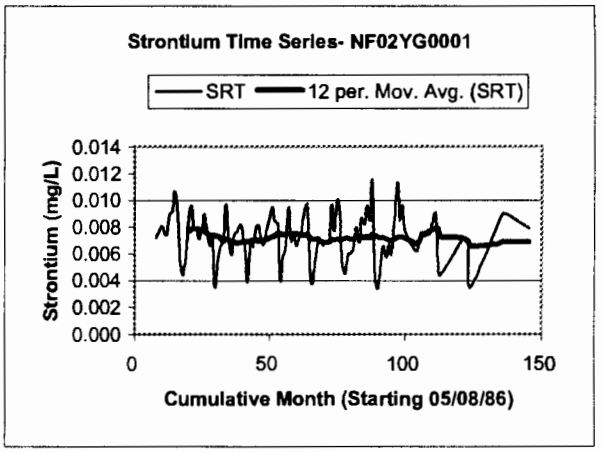

Iron Time Series- NF02YG0001
FET
12 per. Mov. Avg. (FET)
Copper (mg/L)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

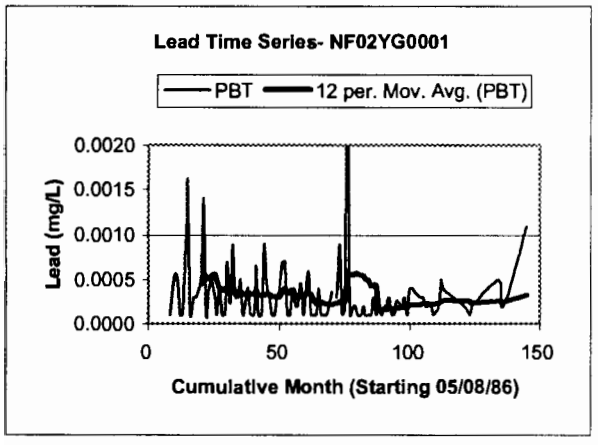

Manganese Time Series- NF02YG0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

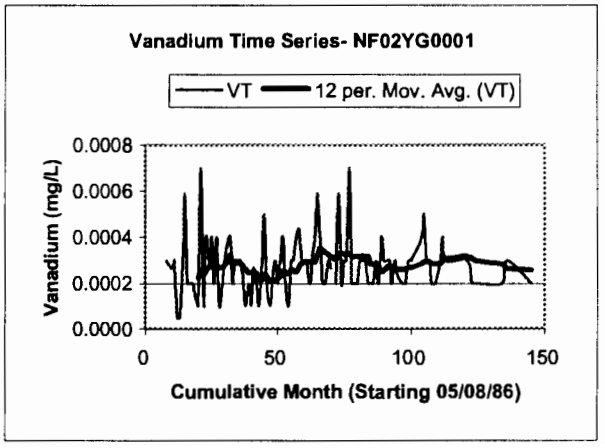

Molybdenum Time Series- NF02YG0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

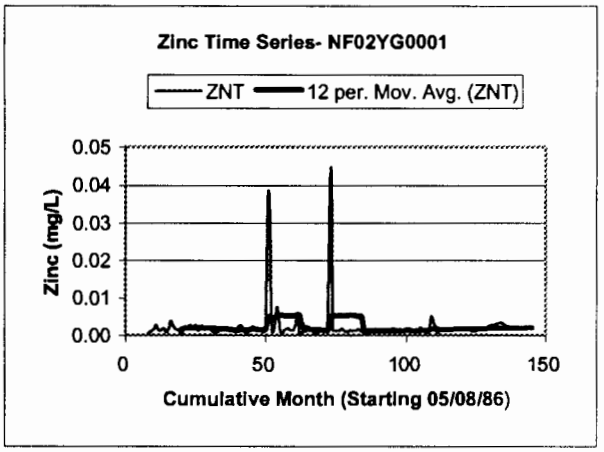

Selenium Time Series- NF02YG0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)


Nickel Time Series- NF02YG0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

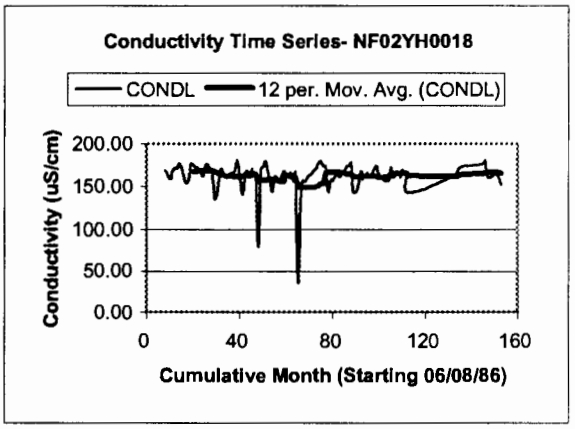

Strontium Time Series- NF02YG0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
50
100
150
Cumulative Month (Starting 05/08/86)

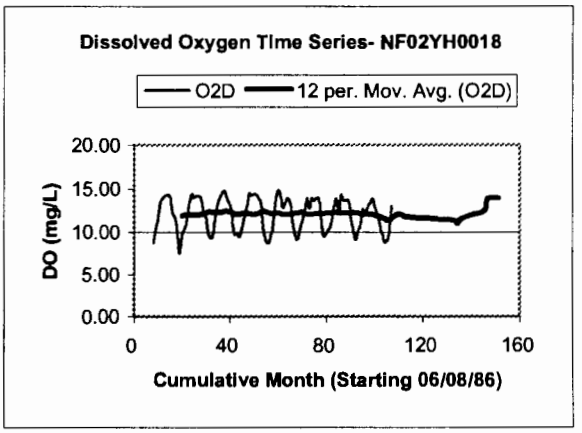

Lead Time Series- NF02YG0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

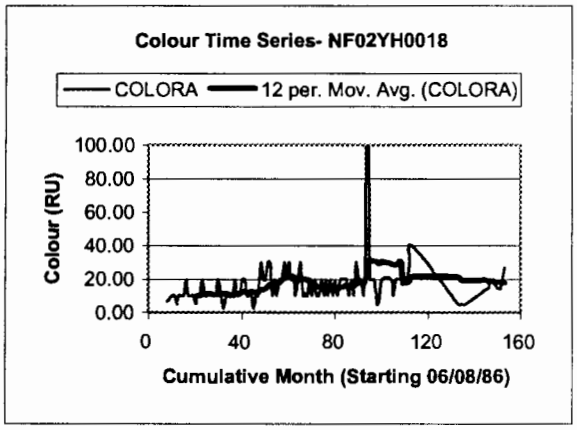

Vanadium Time Series- NF02YG0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
50
100
150
Cumulative Month (Starting 05/08/86)

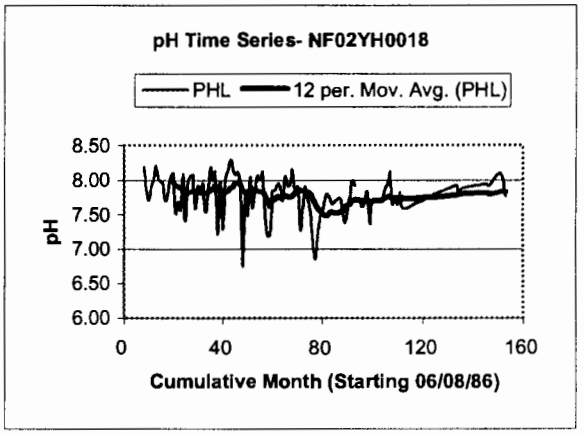

Zinc Time Series- NF02YG0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
50
100
150
Cumulative Month (Starting 05/08/86)

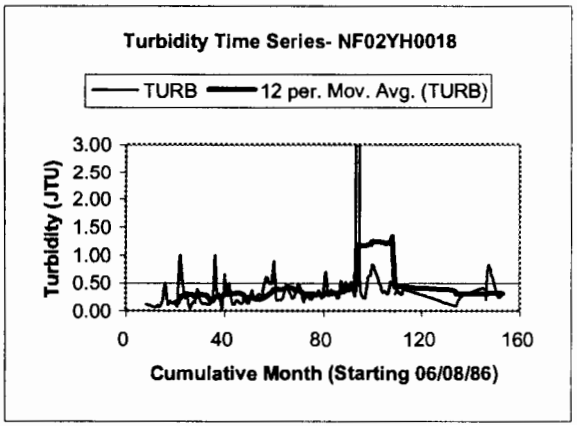
Time Series Plots of Lomond River- NF02YH0018

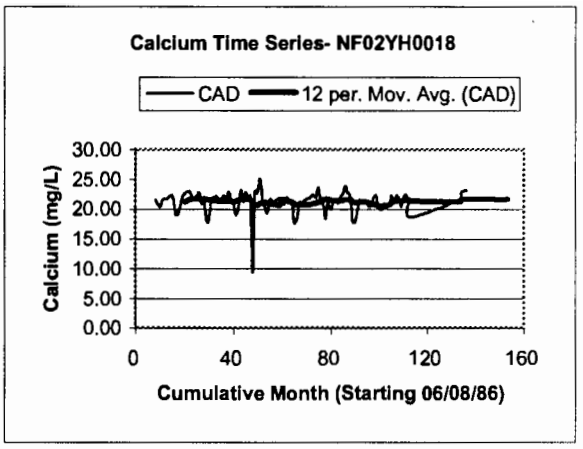


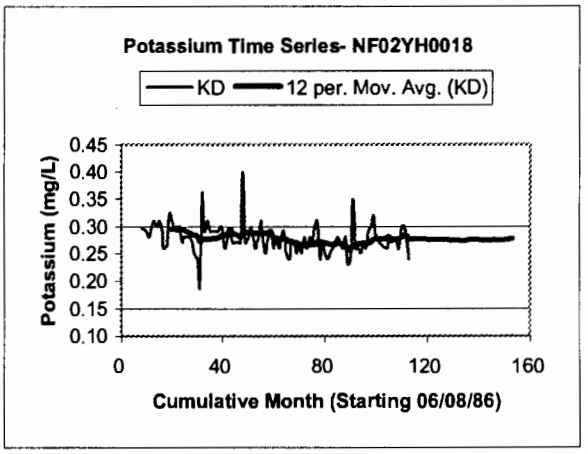


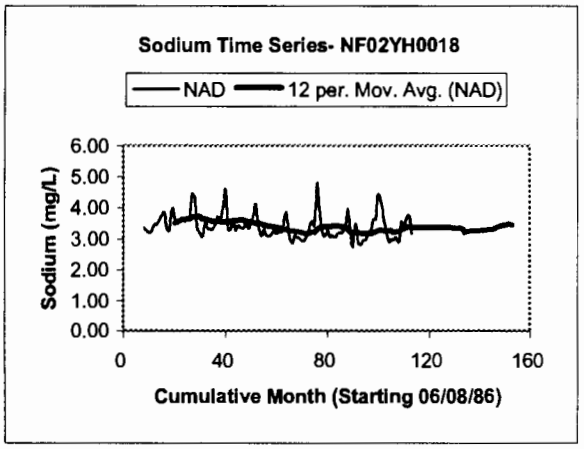


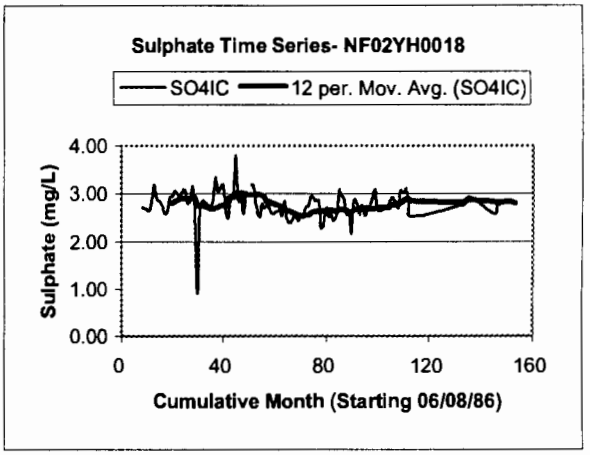


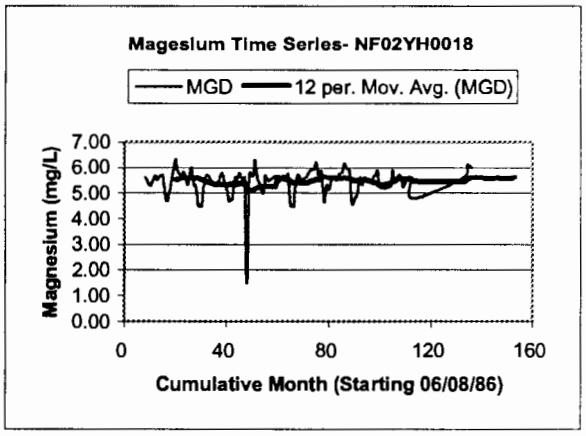


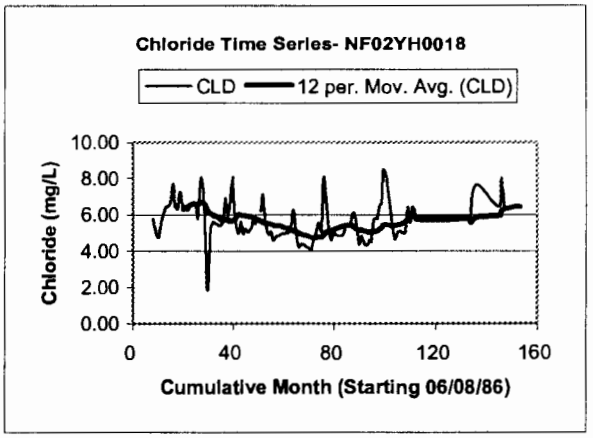

Calcium Time Series- NF02YH0018
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

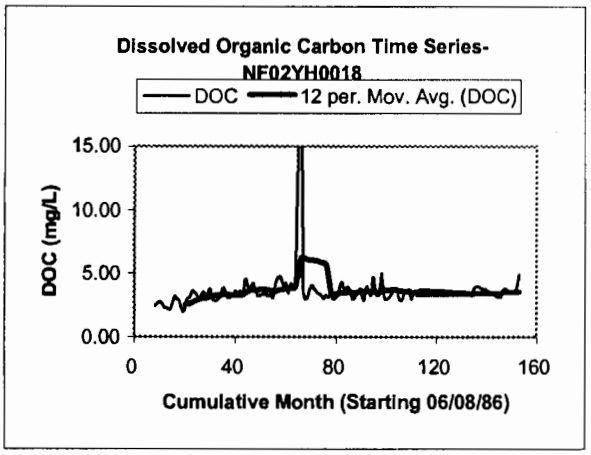

Potassium Time Series- NF02YH0018
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

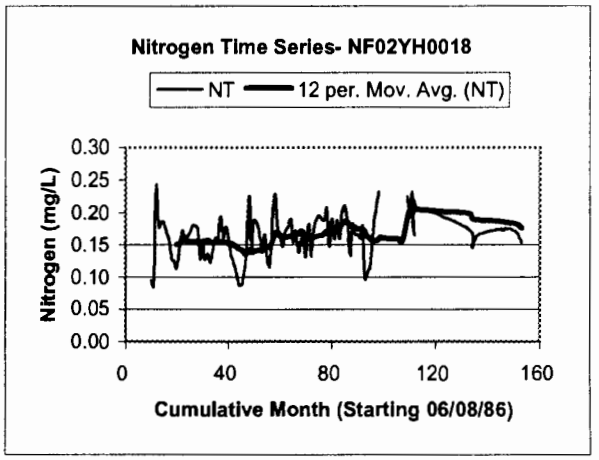

Sodium Time Series- NF02YH0018
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

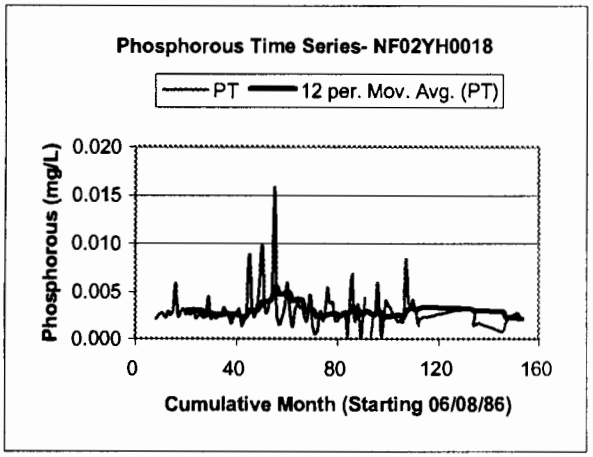

Sulphate Time Series- NF02YH0018
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

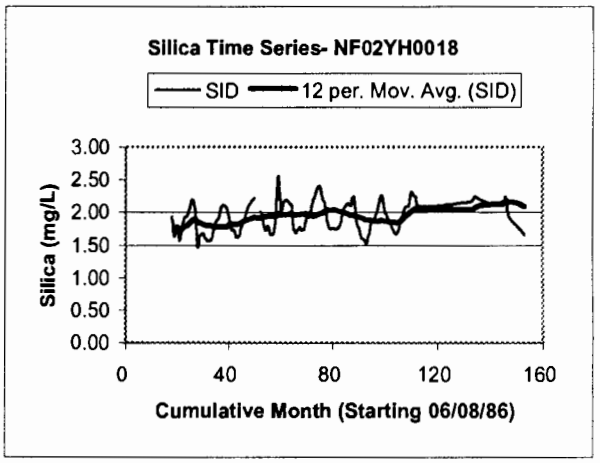

Magesium Time Series- NF02YH0018
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

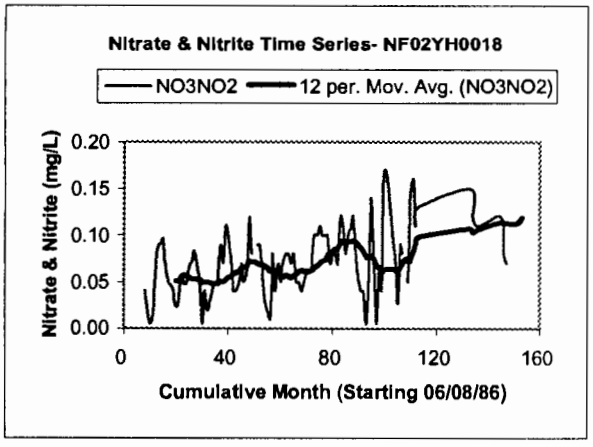

Chloride Time Series- NF02YH0018
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

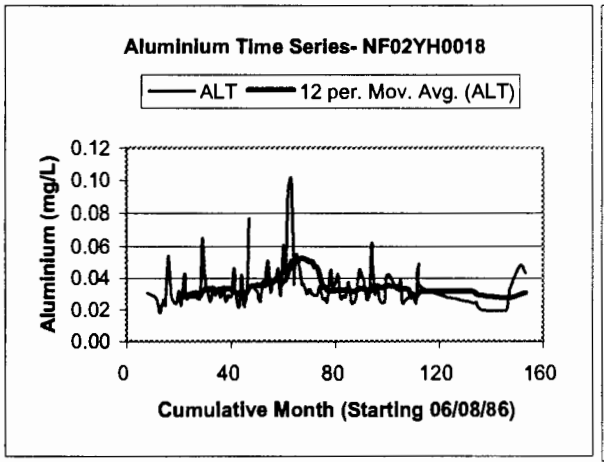

Dissolved Organic Carbon Time Series- NF02YH0018
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

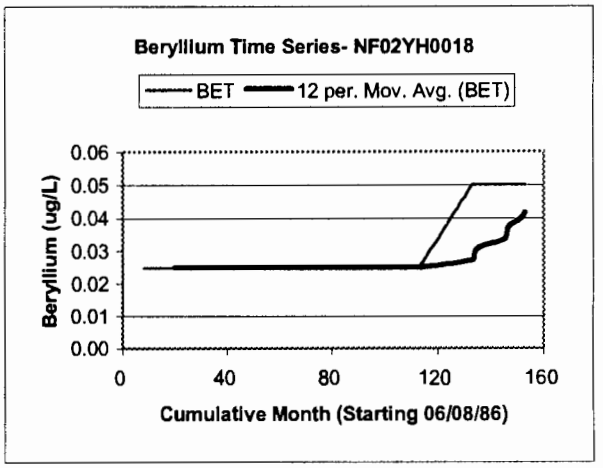

Nitrogen Time Series- NF02YH0018
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

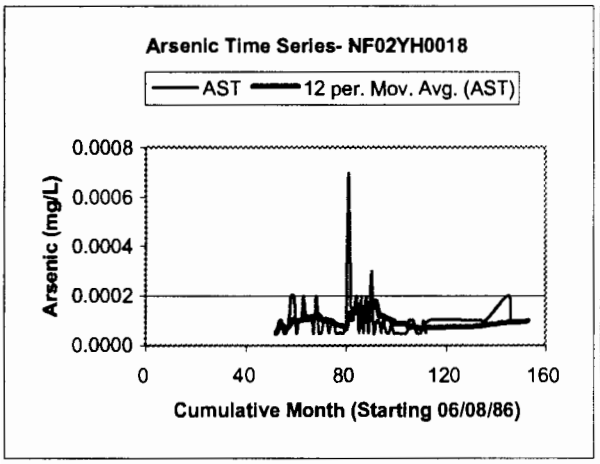

Phosphorous Time Series- NF02YH0018
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

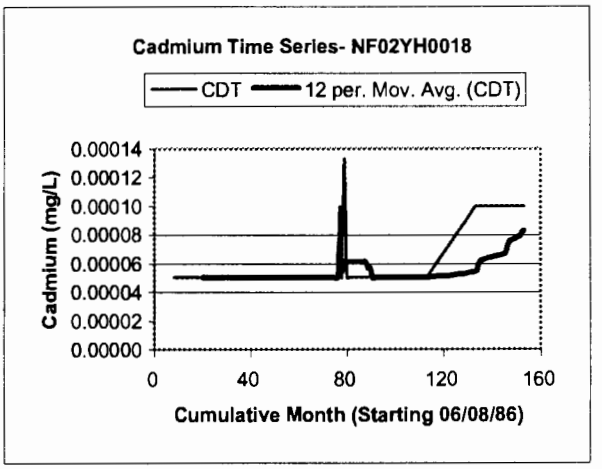

Silica Time Series- NF02YH0018
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

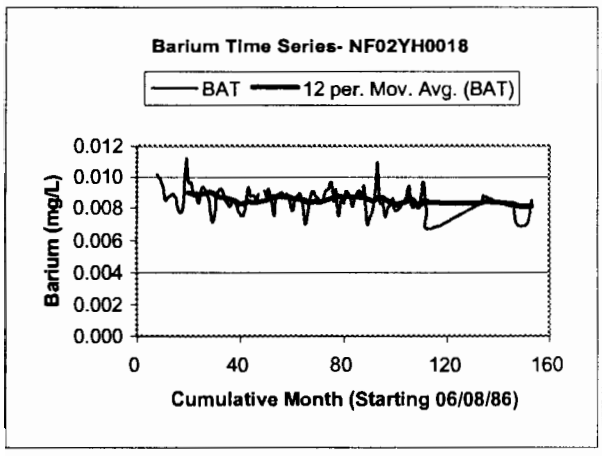

Nitrate & Nitrite Time Series- NF02YH0018
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

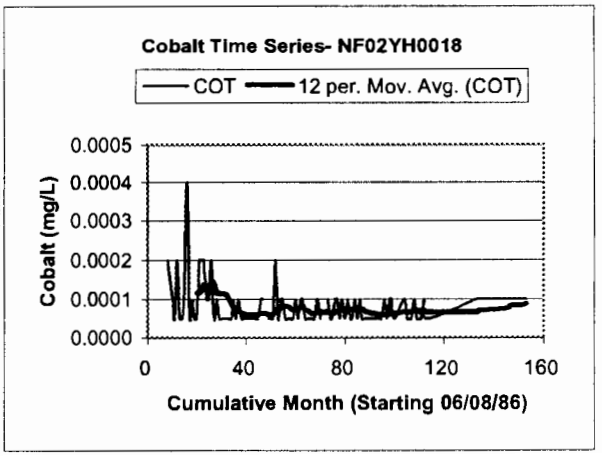

Aluminium Time Series- NF02YH0018
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

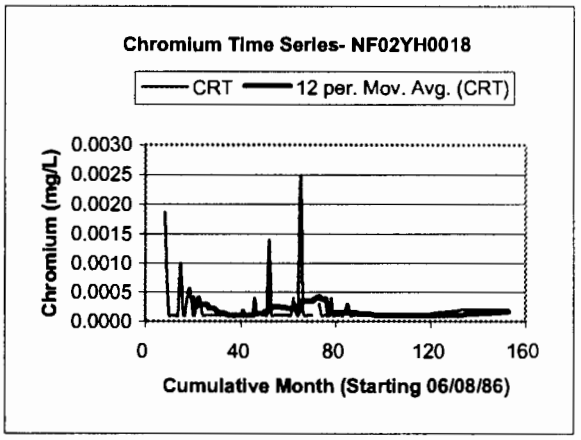

Beryllium Time Series- NF02YH0018
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

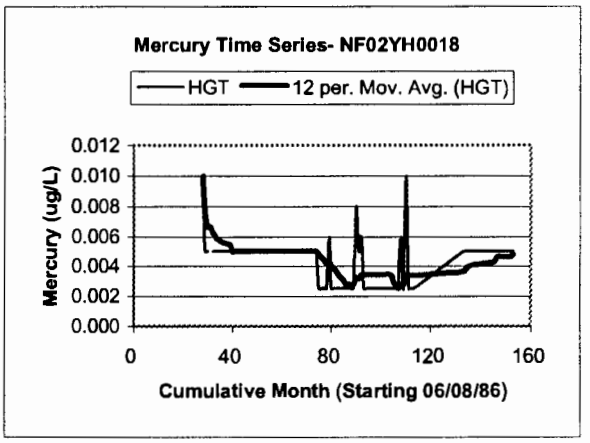

Arsenic Time Series- NF02YH0018
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

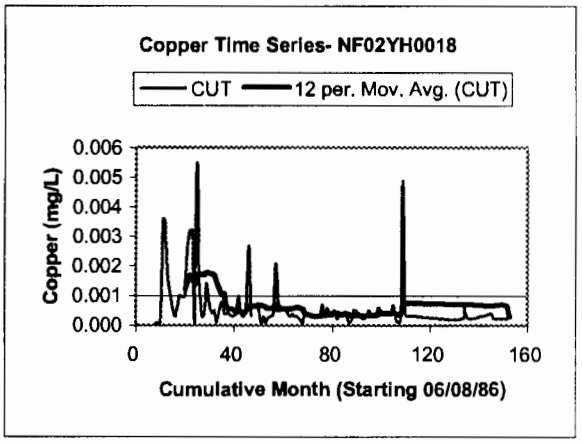

Cadmium Time Series- NF02YH0018
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

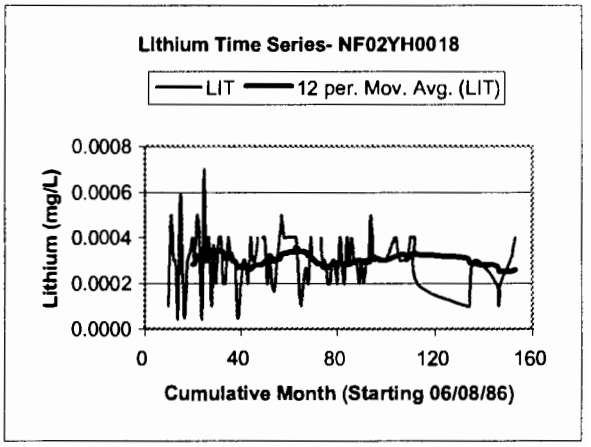

Barium Time Series- NF02YH0018
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

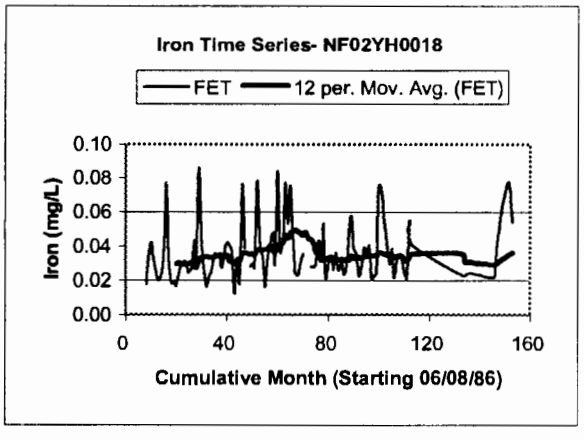

Cobalt Time Series- NF02YH0018
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

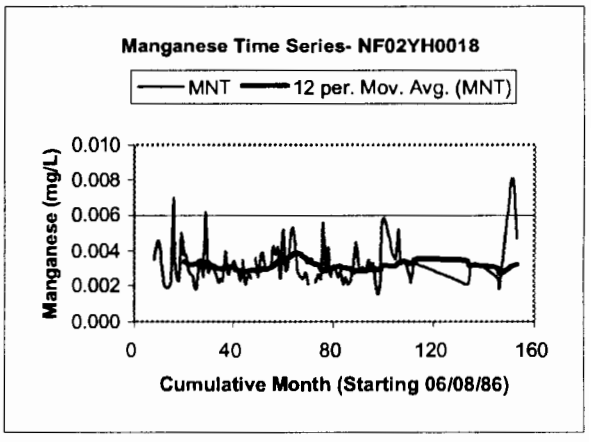

Chromium Time Series- NF02YH0018
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

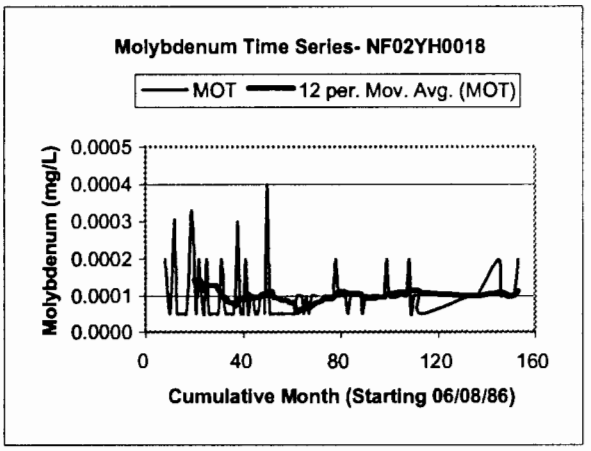

Mercury Time Series- NF02YH0018
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

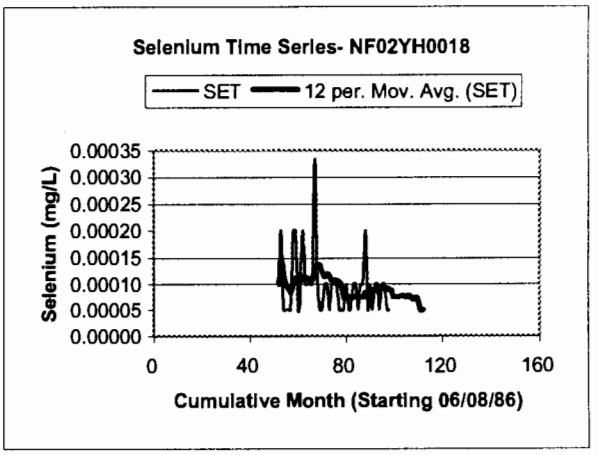

Copper Time Series- NF02YH0018
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

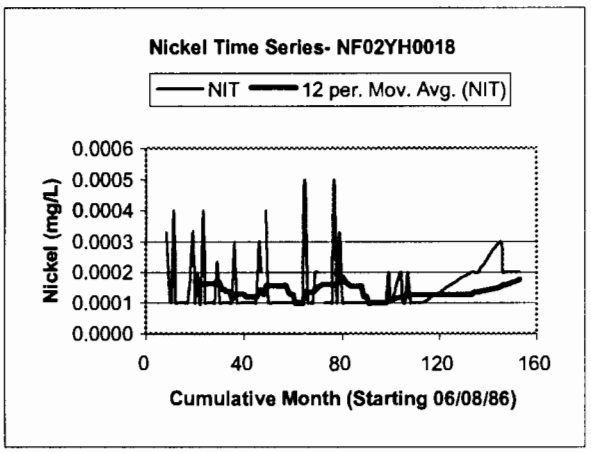

Lithium Time Series- NF02YH0018
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

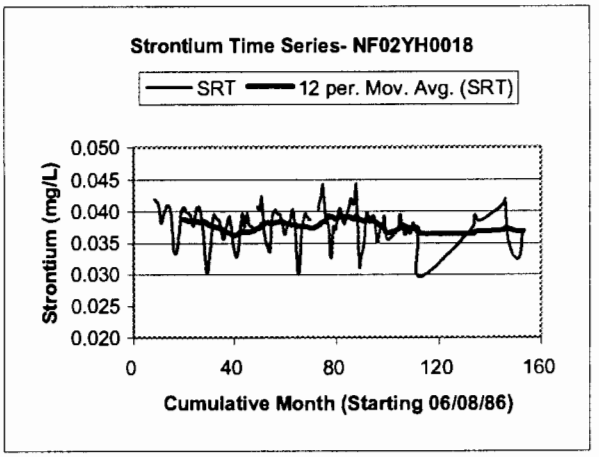

Iron Time Series- NF02YH0018
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

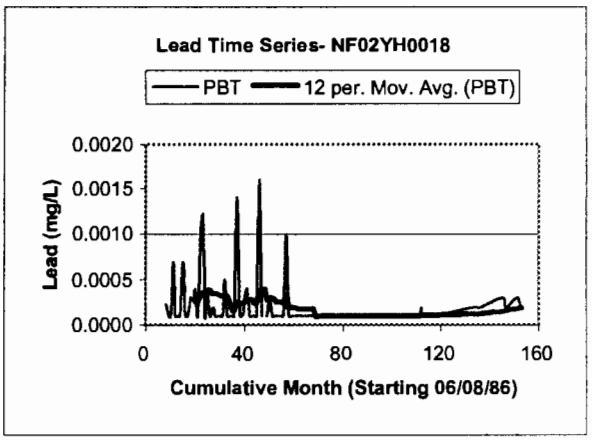

Manganese Time Series- NF02YH0018
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

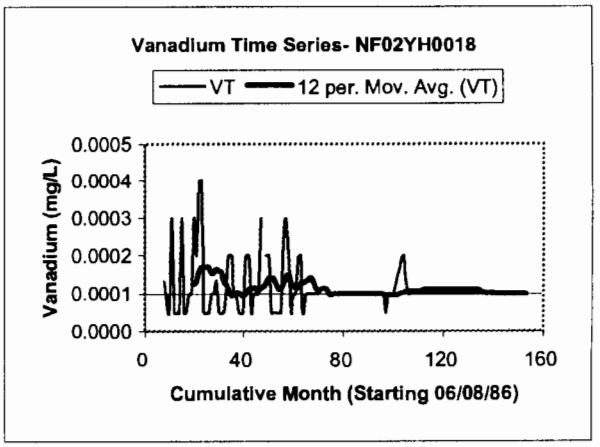

Molybdenum Time Series- NF02YH0018
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

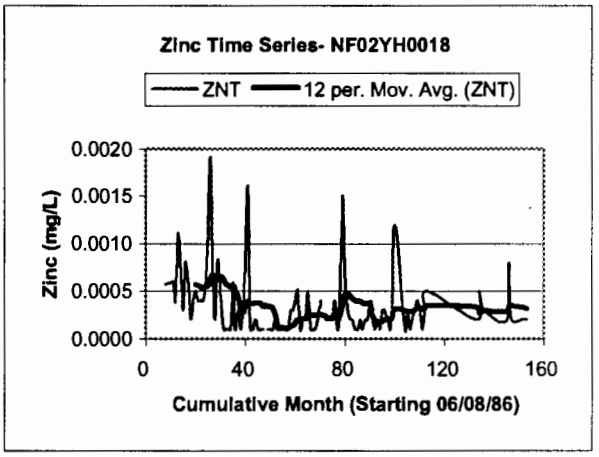

Selenium Time Series- NF02YH0018
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)


Nickel Time Series- NF02YH0018
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

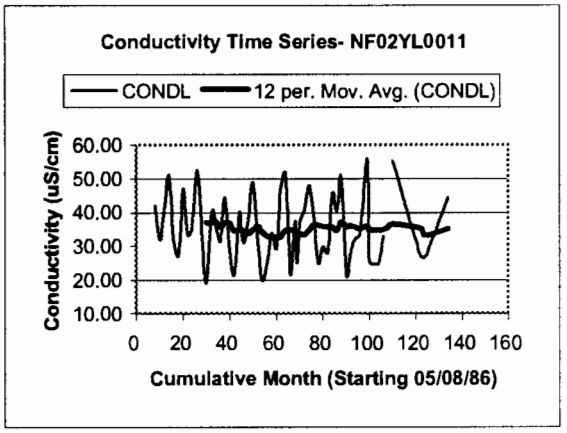

Strontium Time Series- NF02YH0018
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

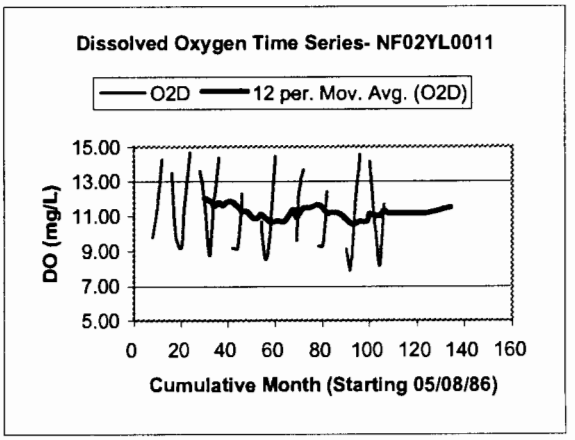

Lead Time Series- NF02YH0018
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

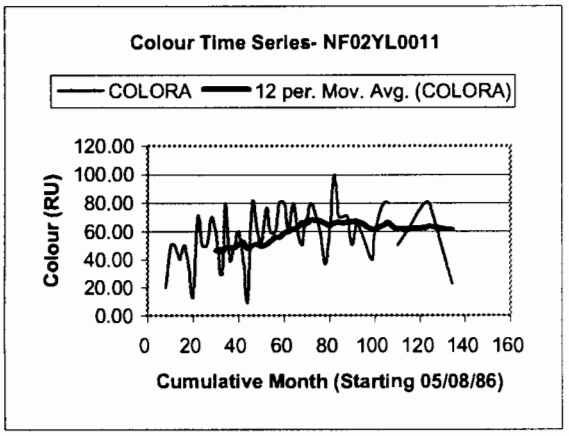

Vanadium Time Series- NF02YH0018
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

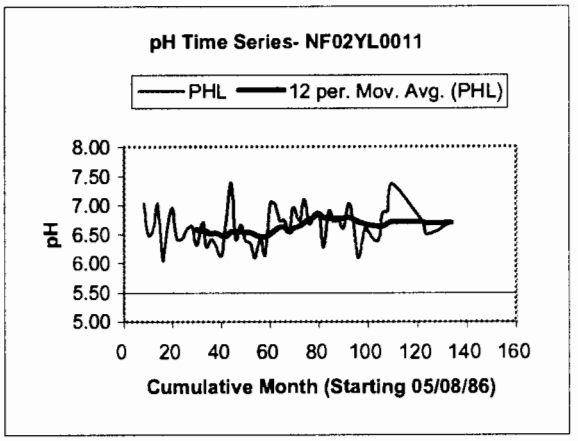

Zinc Time Series- NF02YH0018
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 06/08/86)

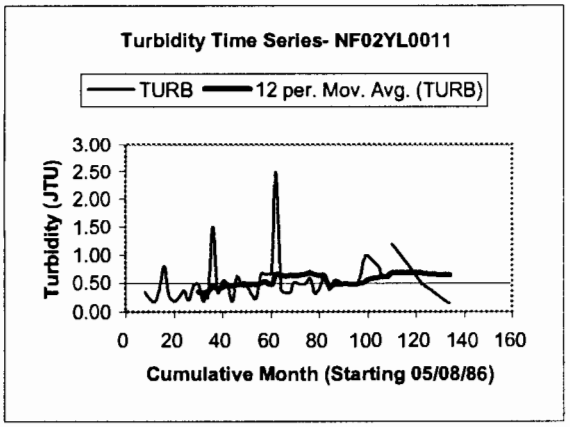
Time Series Plots of Upper Humber River- NF02YL0011

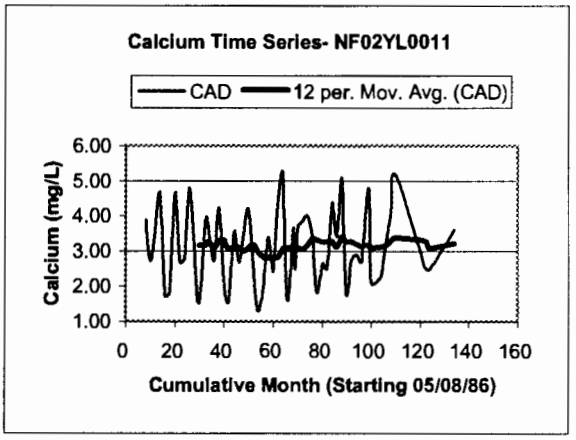


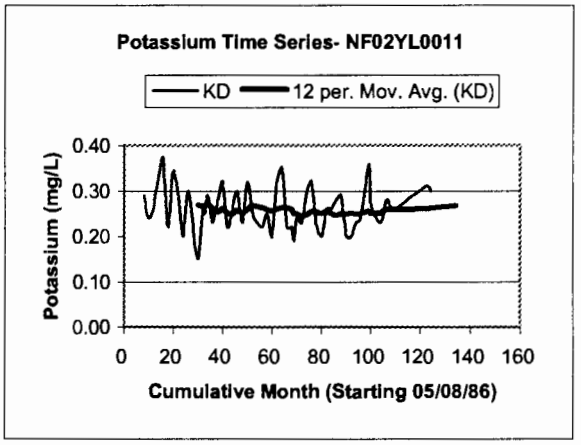


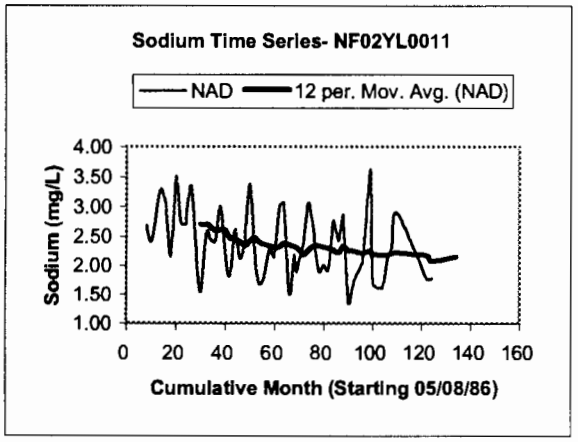


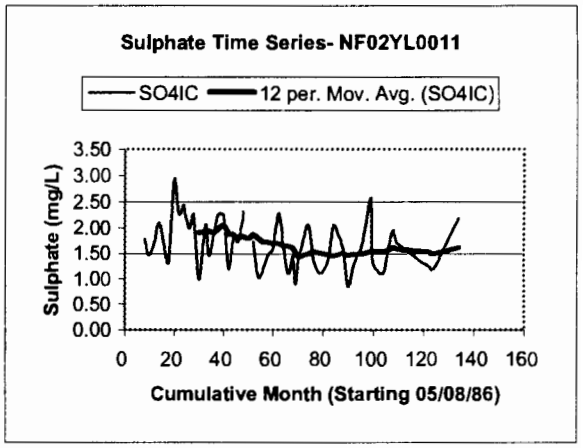


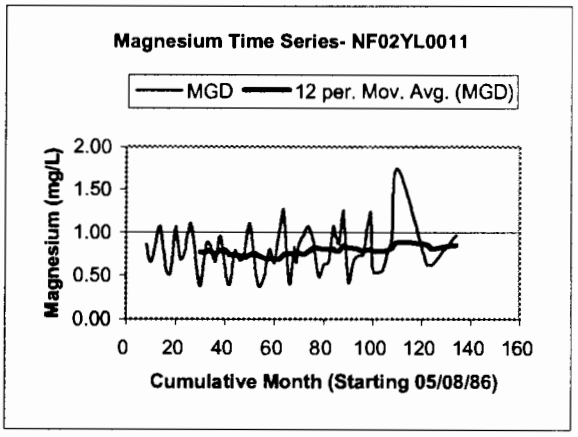


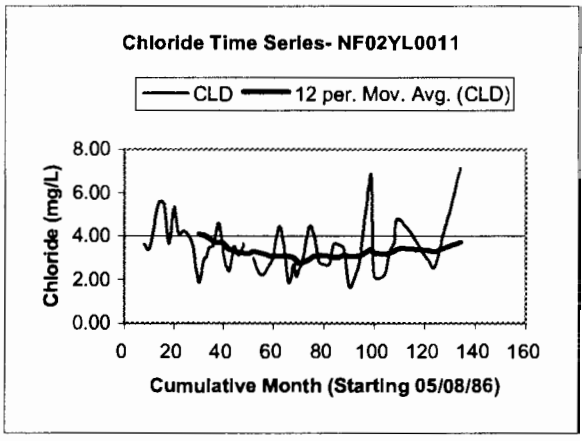

Calcium Time Series- NF02YL0011
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

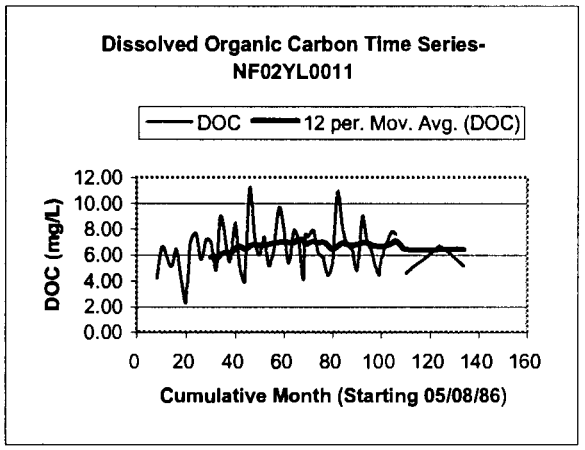

Potassium Time Series- NF02YL0011
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

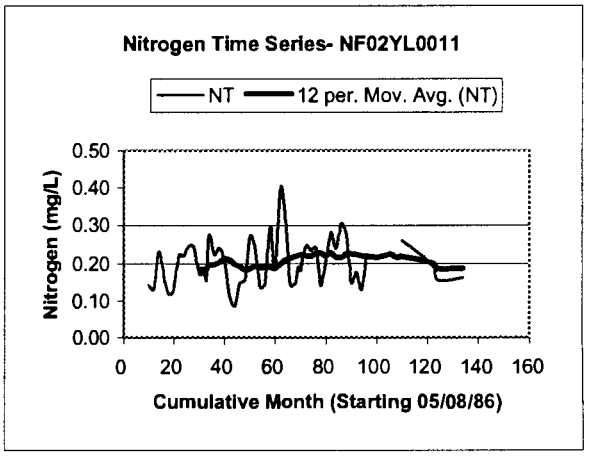

Sodium Time Series- NF02YL0011
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

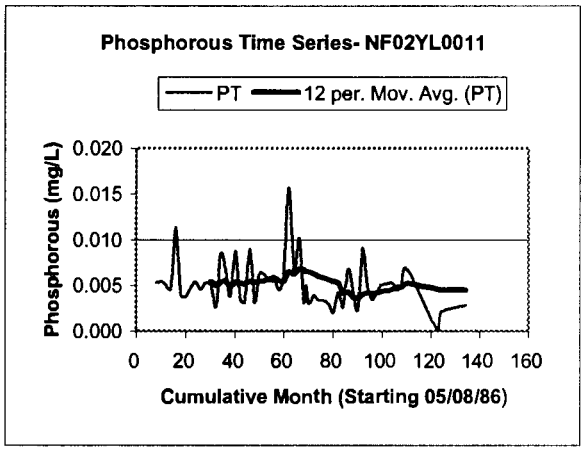

Sulphate Time Series- NF02YL0011
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

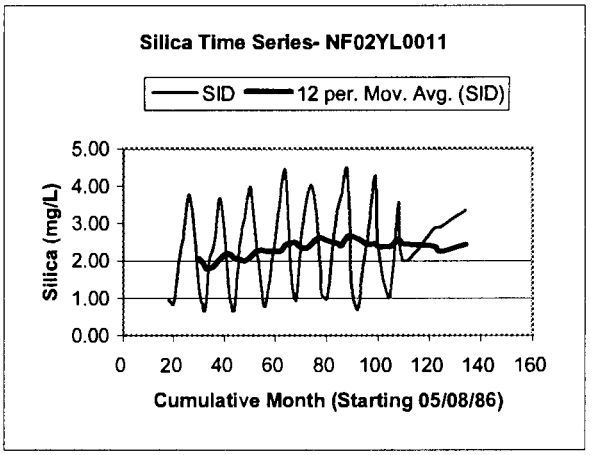

Magnesium Time Series- NF02YL0011
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

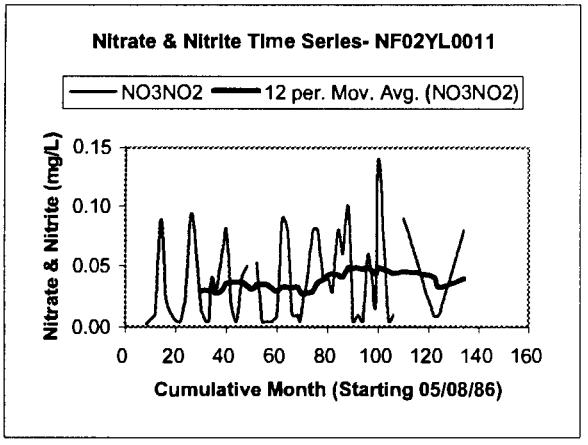

Chloride Time Series- NF02YL0011
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

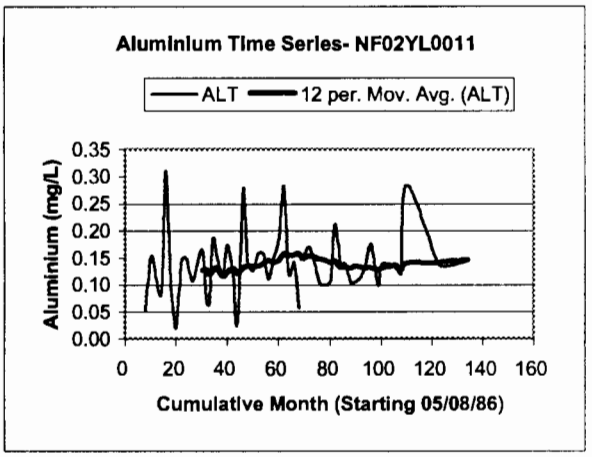

Dissolved Organic Carbon Time Series- NF02YL0011
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

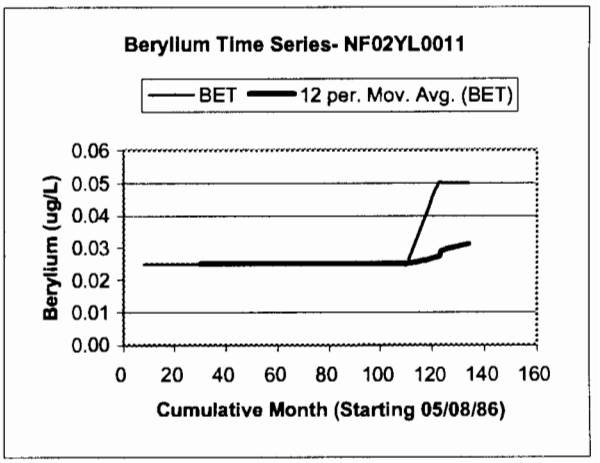

Nitrogen Time Series- NF02YL0011
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

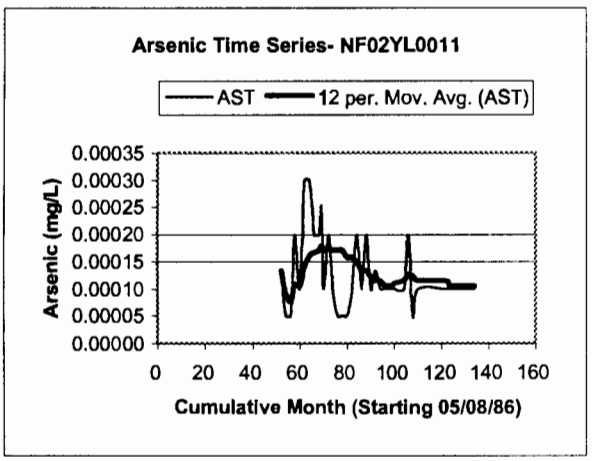

Phosphorous Time Series- NF02YL0011
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

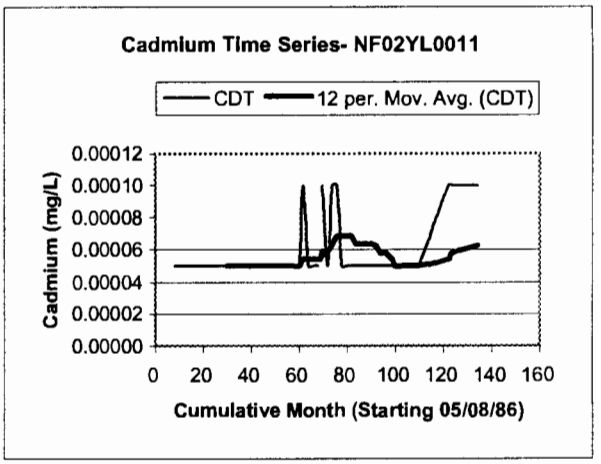

Silica Time Series- NF02YL0011
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

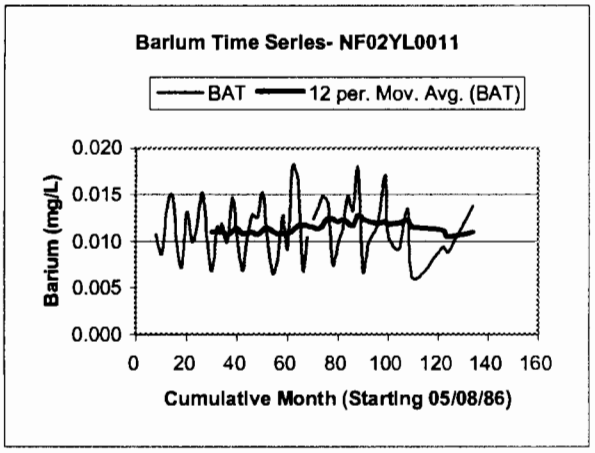

Nitrate & Nitrite Time Series- NF02YL0011
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

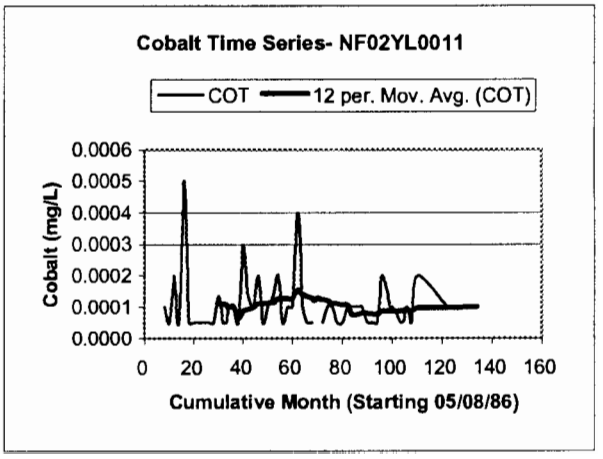

Aluminium Time Series- NF02YL0011
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

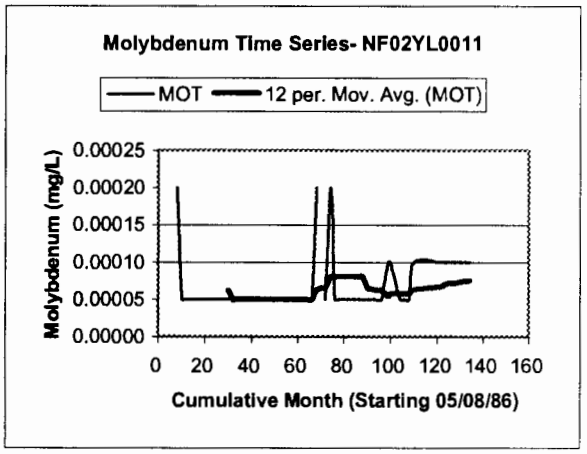

Beryllium Time Series- NF02YL0011
BET
12 per. Mov. Avg. (BET)
Berylium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

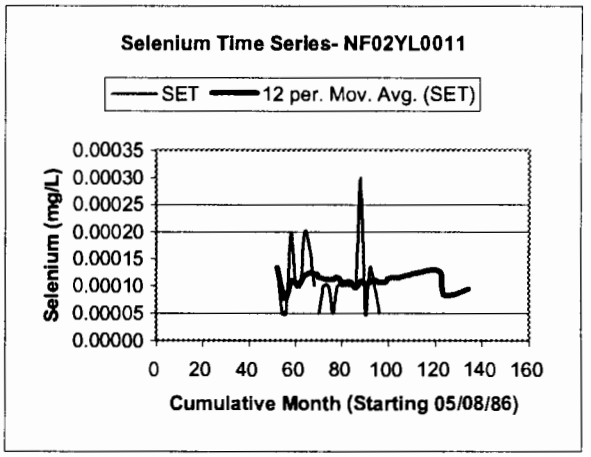

Arsenic Time Series- NF02YL0011
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

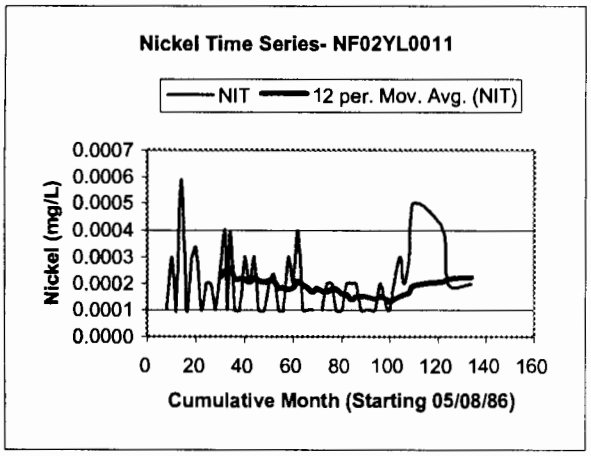

Cadmium Time Series- NF02YL0011
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

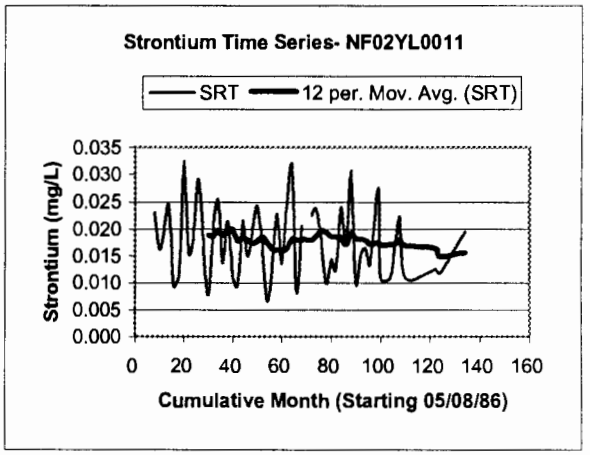

Barium Time Series- NF02YL0011
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

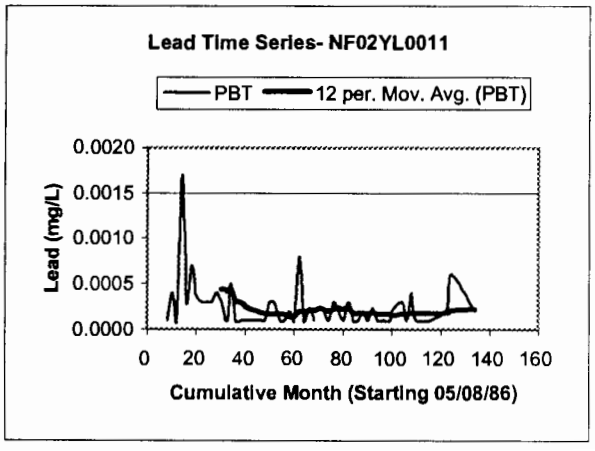

Cobalt Time Series- NF02YL0011
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

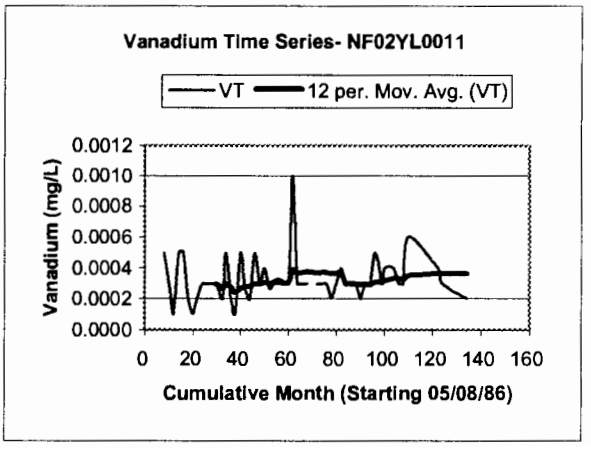

Molybdenum Time Series- NF02YL0011
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

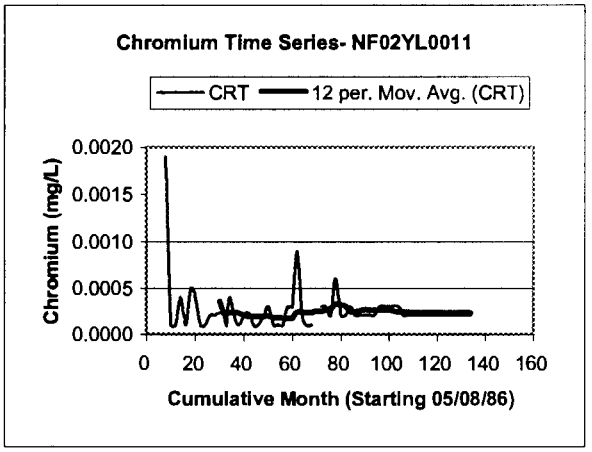

Selenium Time Series- NF02YL0011
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

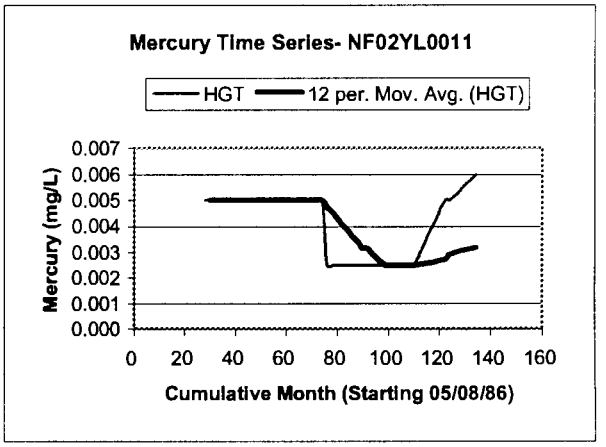

Nickel Time Series- NF02YL0011
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

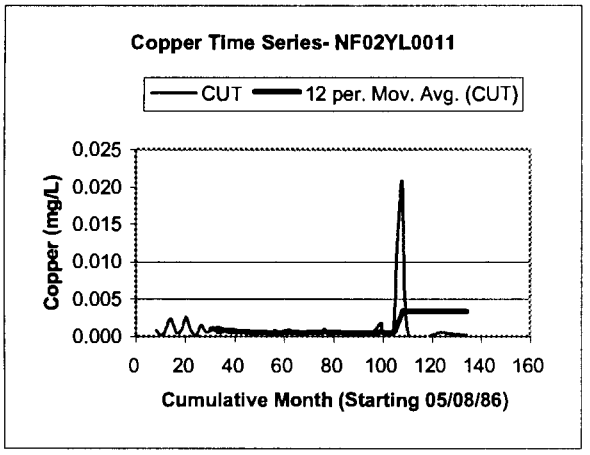

Strontium Time Series- NF02YL0011
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

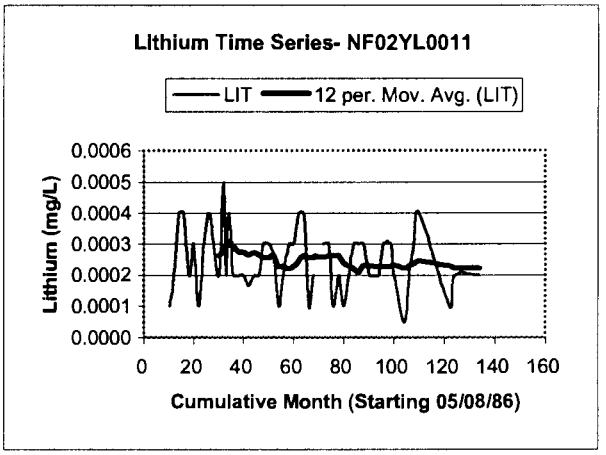

Lead Time Series- NF02YL0011
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

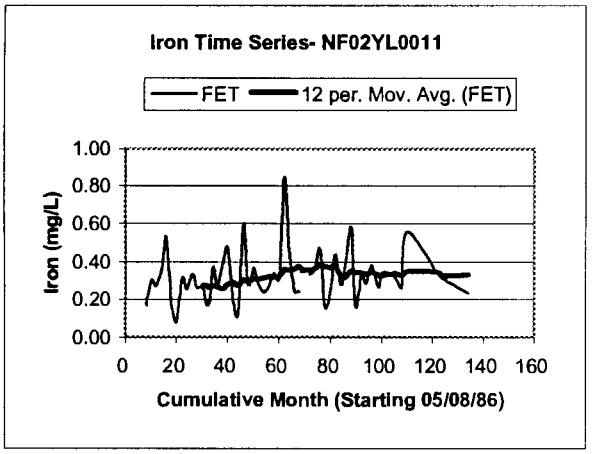

Vanadium Time Series- NF02YL0011
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

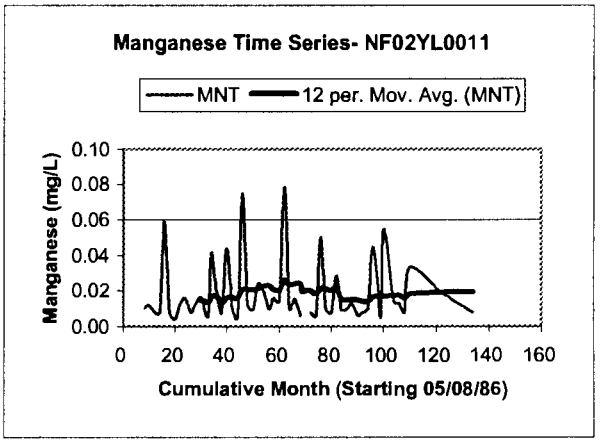

Chromium Time Series- NF02YL0011
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

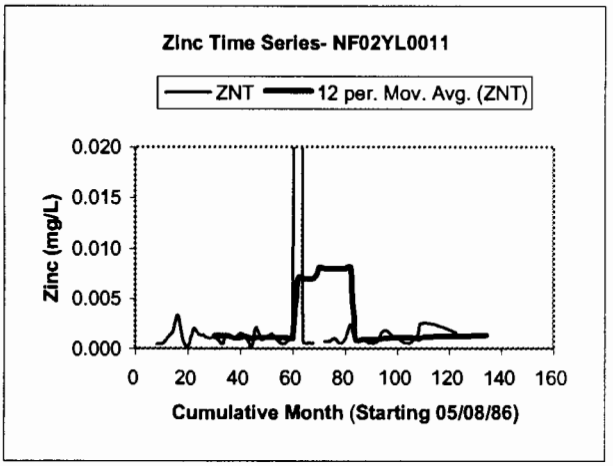

Mercury Time Series- NF02YL0011
HGT
12 per. Mov. Avg. (HGT)
Mercury (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)


Copper Time Series- NF02YL0011
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

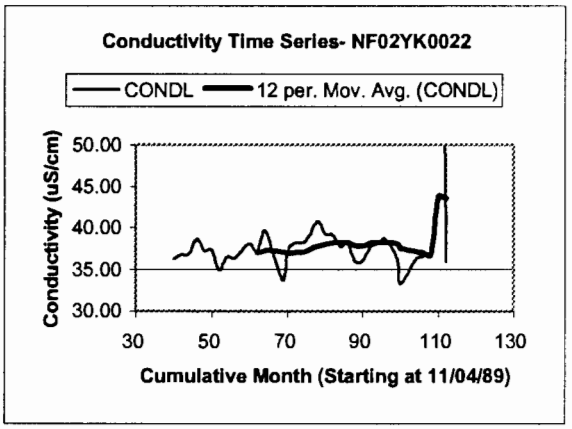

Lithium Time Series- NF02YL0011
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

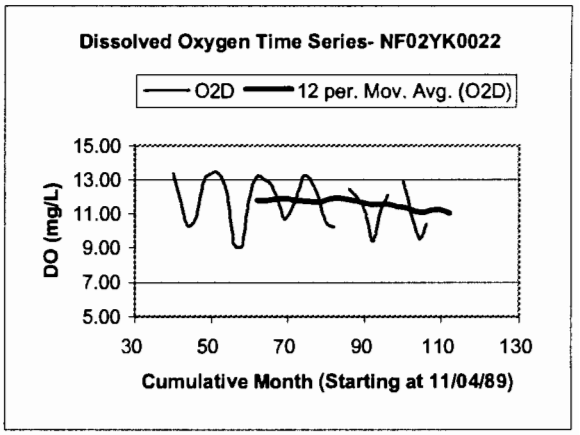

Iron Time Series- NF02YL0011
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

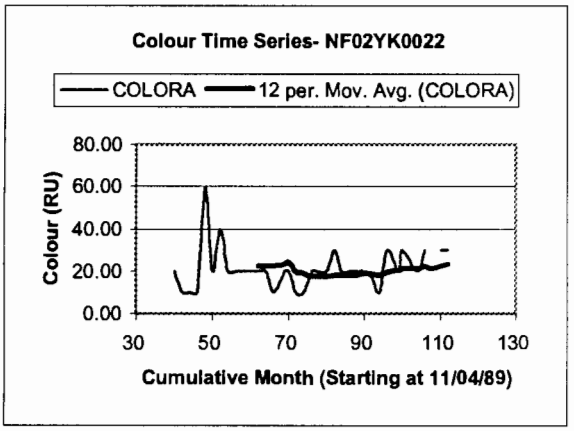

Manganese Time Series- NF02YL0011
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
0 20 40 60 80 100 120 140 160
Cumulative Month (Starting 05/08/86)

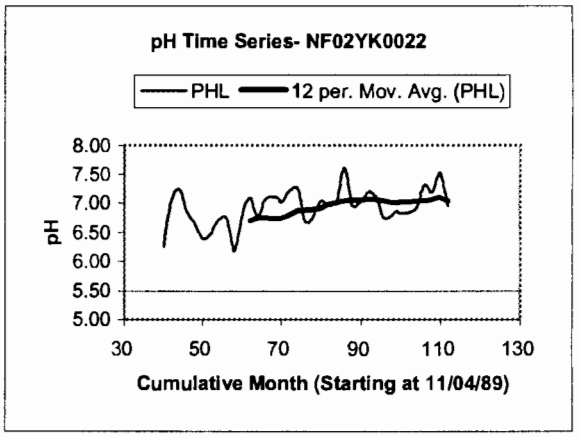

Zinc Time Series- NF02YL0011
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
140
160
Cumulative Month (Starting 05/08/86)

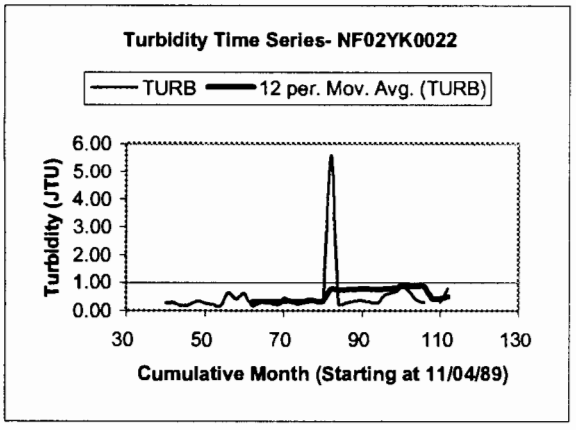
Time Series Plots of Humber Canal- NF02YK0022

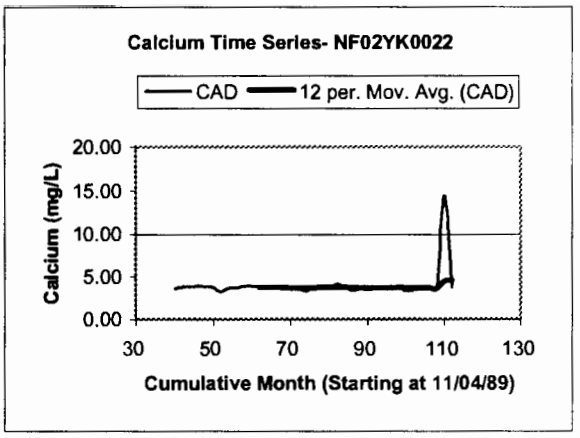


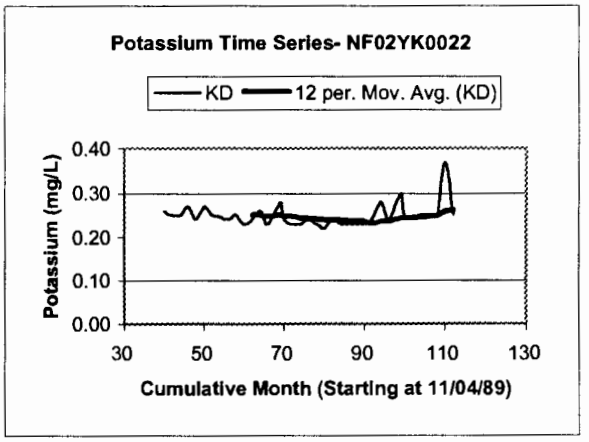


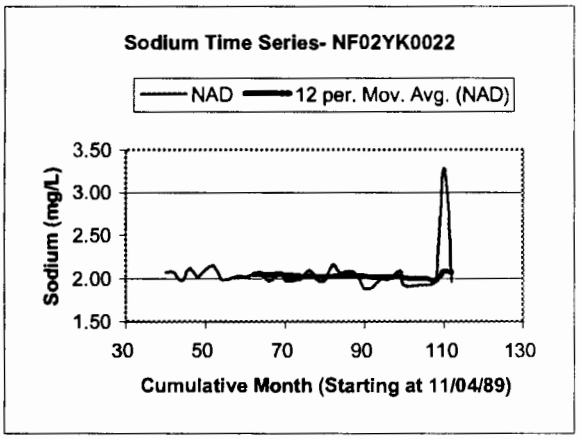


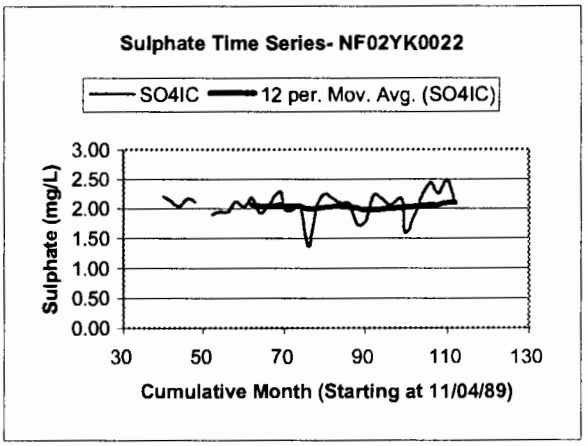


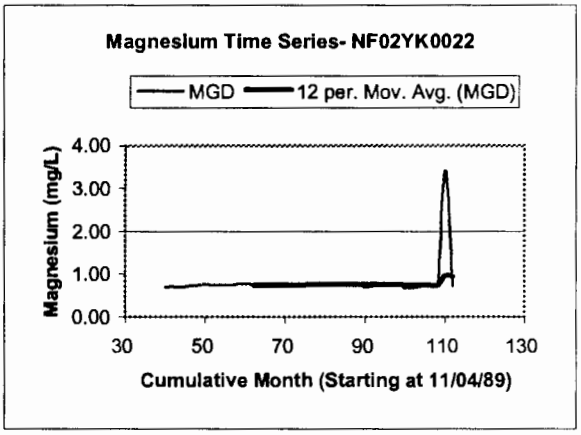


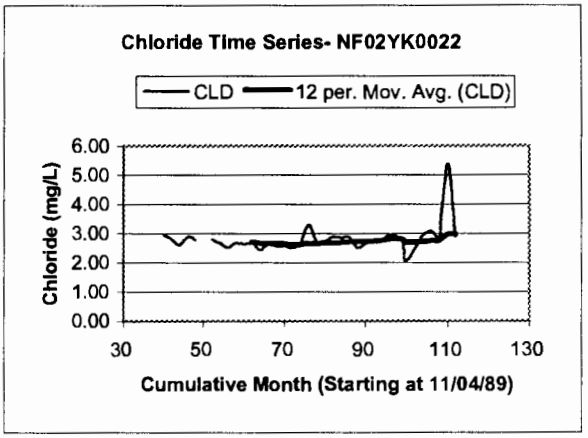

Calcium Time Series- NF02YK0022
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
20.00
15.00
10.00
5.00
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

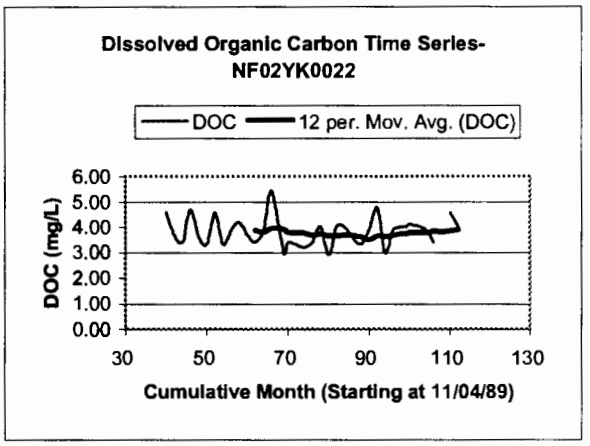

Potassium Time Series- NF02YK0022
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.30
0.20
0.10
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

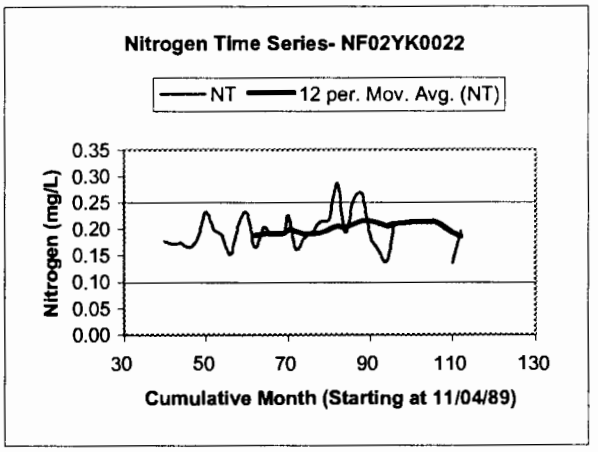

Sodium Time Series- NF02YK0022
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.50
3.00
2.50
2.00
1.50
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

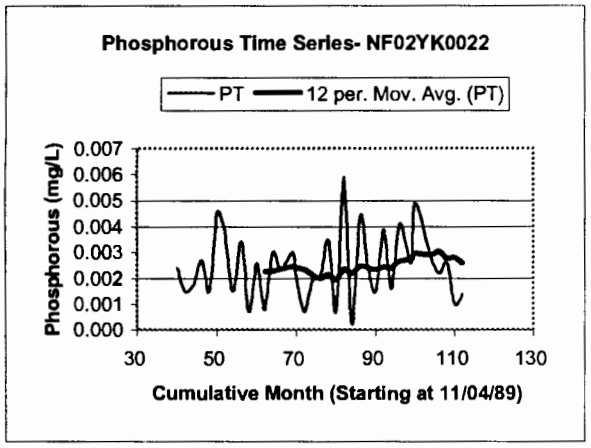

Sulphate Time Series- NF02YK0022
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

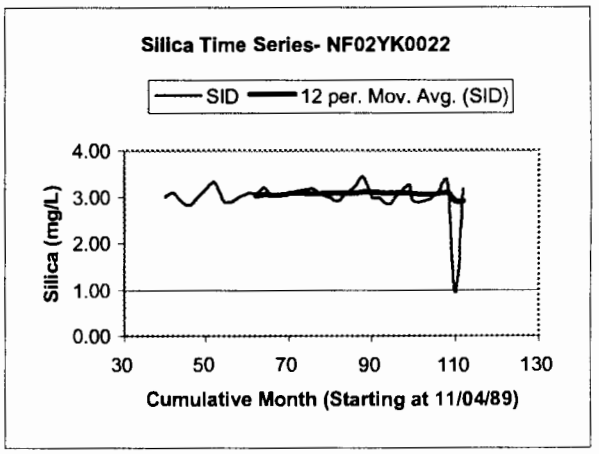

Magnesium Time Series- NF02YK0022
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
4.00
3.00
2.00
1.00
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

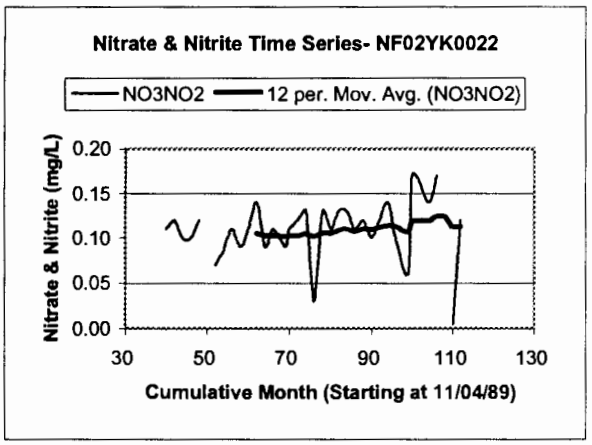

Chloride Time Series- NF02YK0022
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

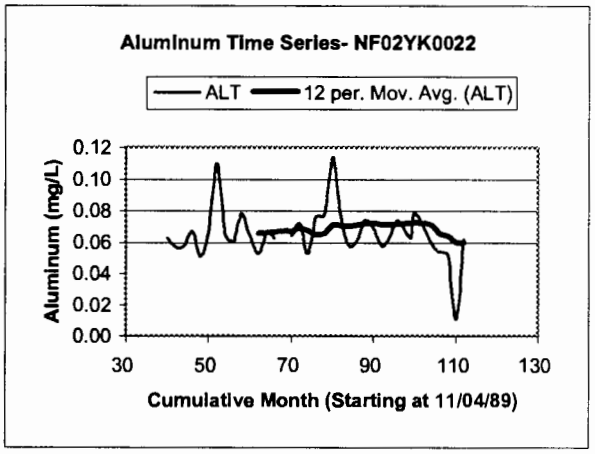

Dissolved Organic Carbon Time Series- NF02YK0022
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

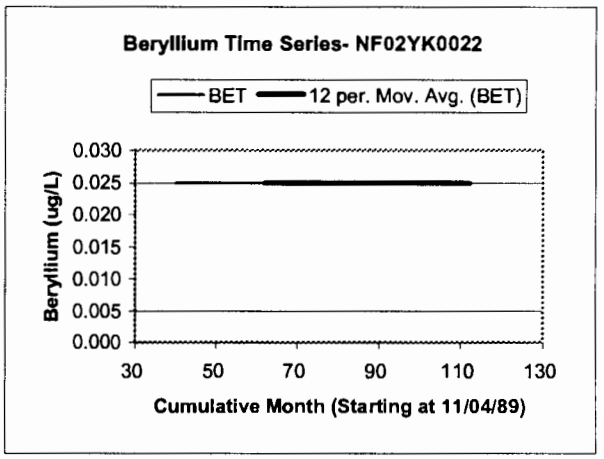

Nitrogen Time Series- NF02YK0022
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

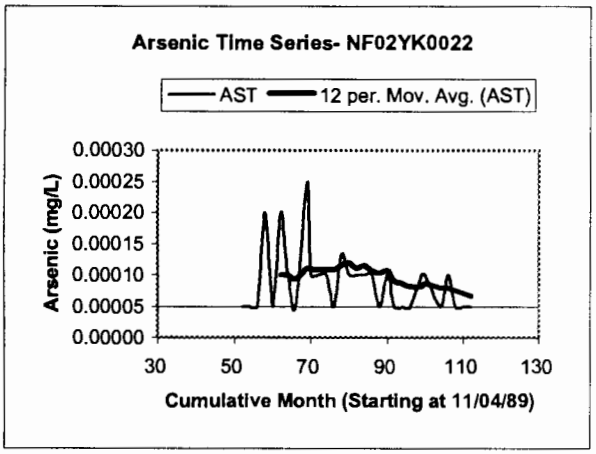

Phosphorous Time Series- NF02YK0022
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

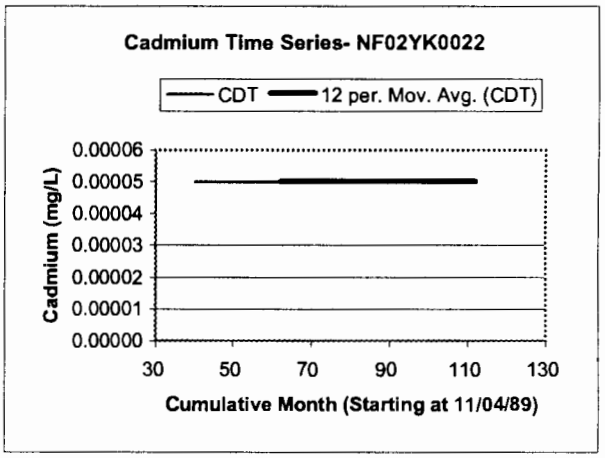

Silica Time Series- NF02YK0022
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.00
2.00
1.00
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

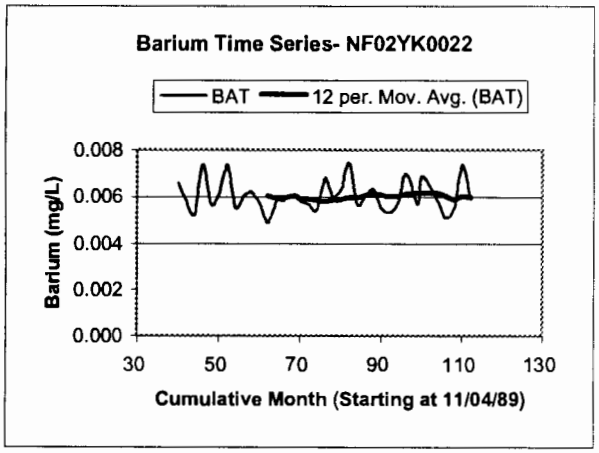

Nitrate & Nitrite Time Series- NF02YK0022
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

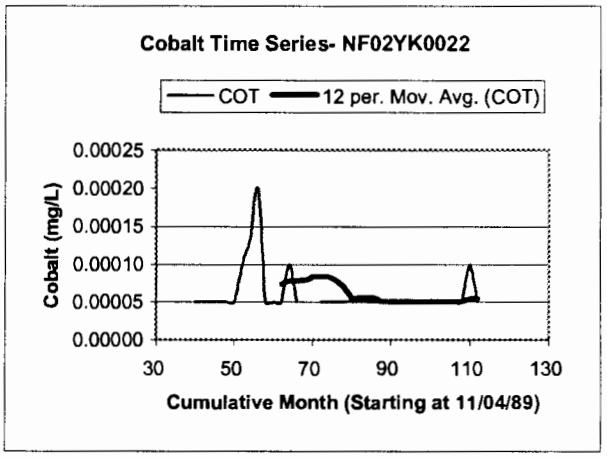

Aluminum Time Series- NF02YK0022
ALT
12 per. Mov. Avg. (ALT)
Aluminum (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

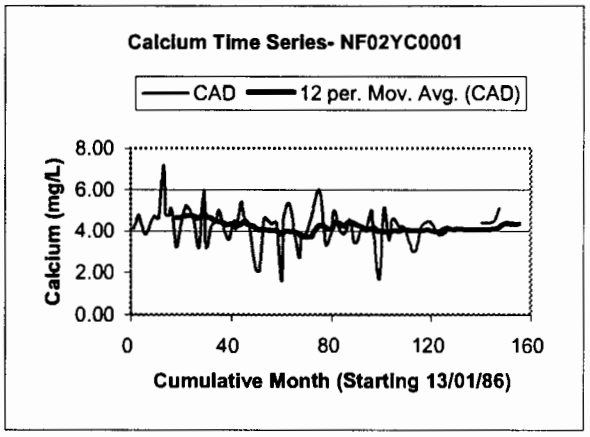

Beryllium Time Series- NF02YK0022
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

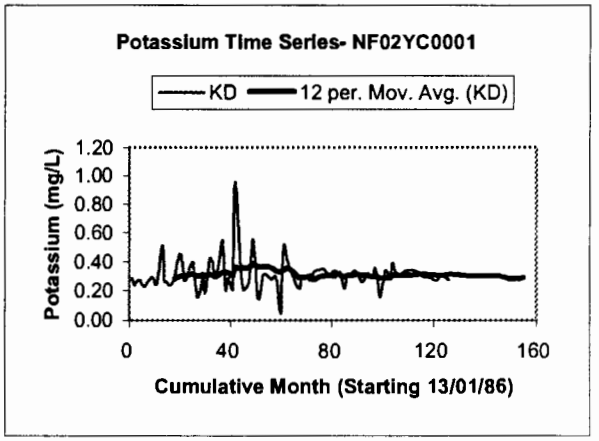

Arsenic Time Series- NF02YK0022
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

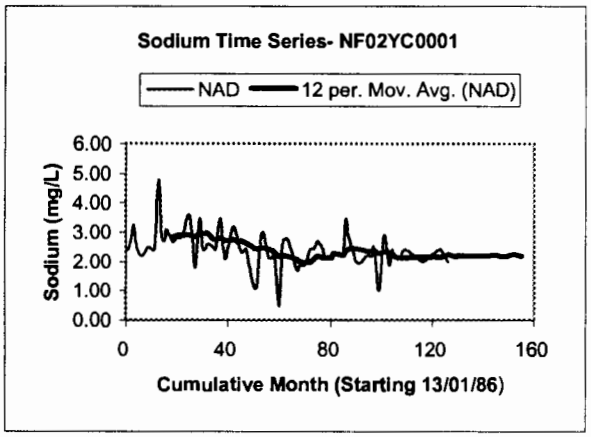

Cadmium Time Series- NF02YK0022
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00006
0.00005
0.00004
0.00003
0.00002
0.00001
0.00000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

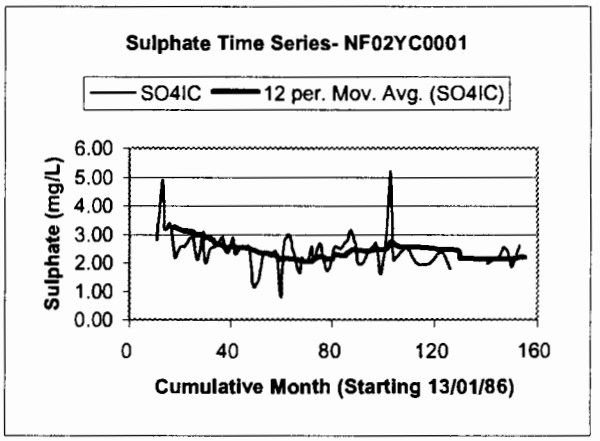

Barium Time Series- NF02YK0022
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.006
0.004
0.002
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

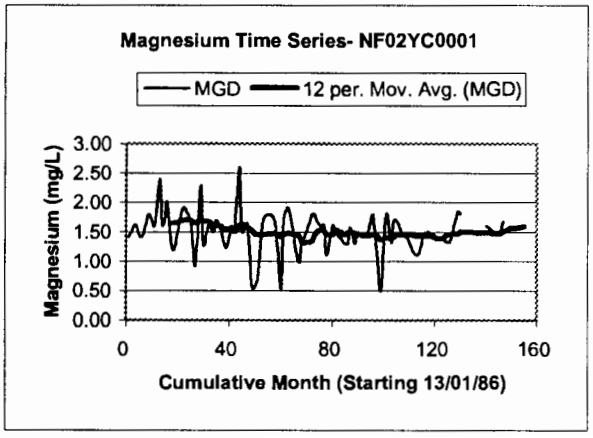

Cobalt Time Series- NF02YK0022
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

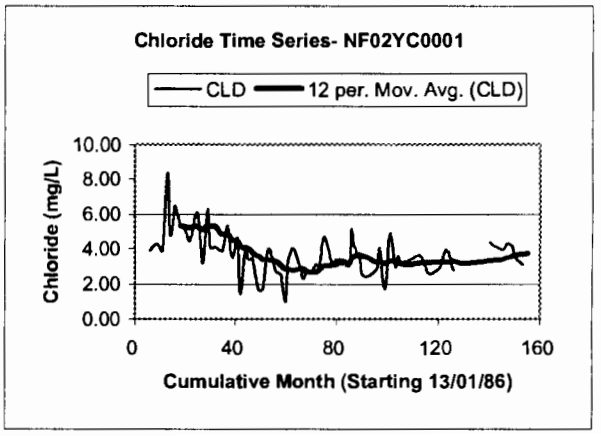

Calcium Time Series- NF02YC0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

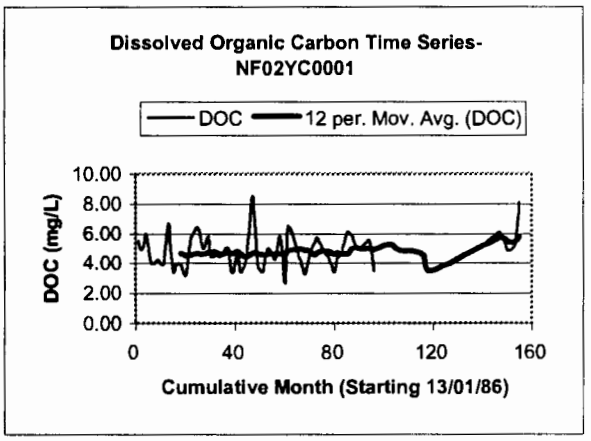

Potassium Time Series- NF02YC0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

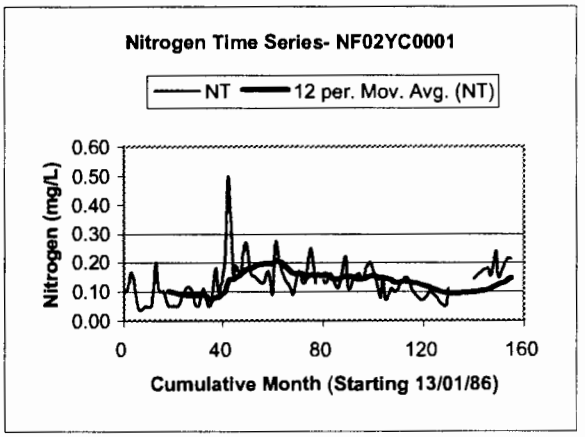

Sodium Time Series- NF02YC0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

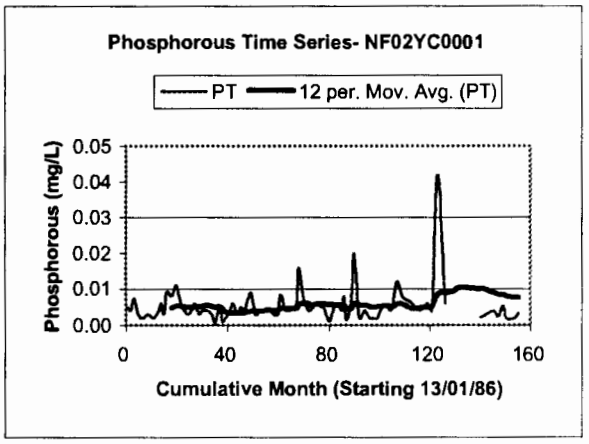

Sulphate Time Series- NF02YC0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

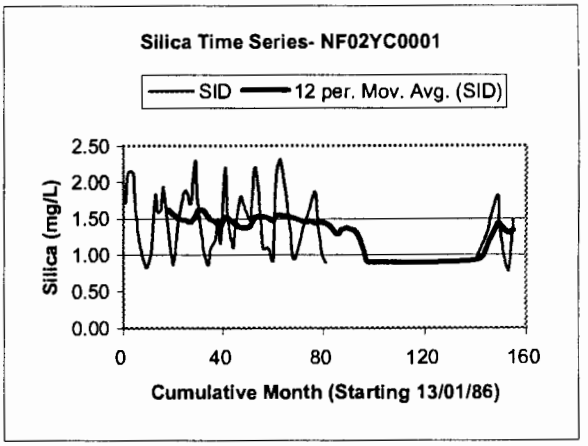

Magnesium Time Series- NF02YC0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

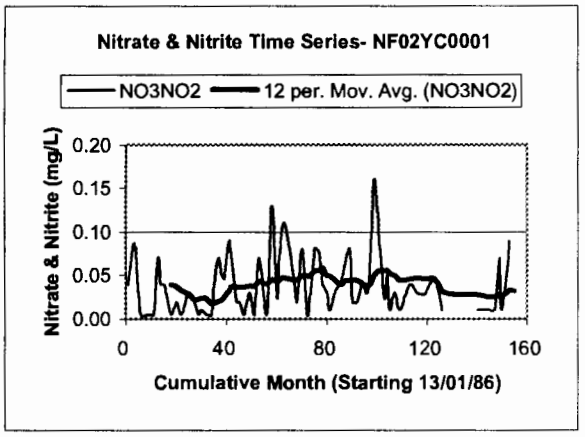

Chloride Time Series- NF02YC0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

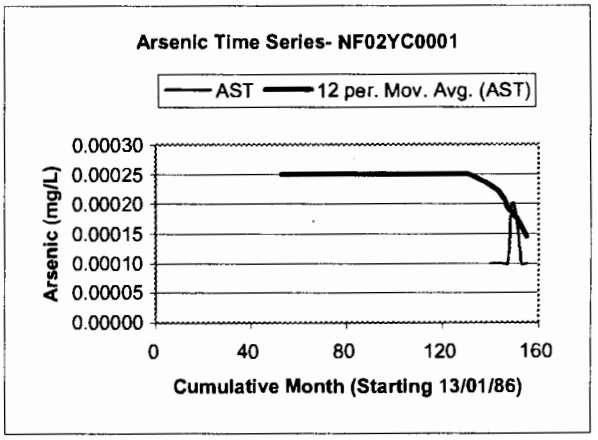

Dissolved Organic Carbon Time Series- NF02YC0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

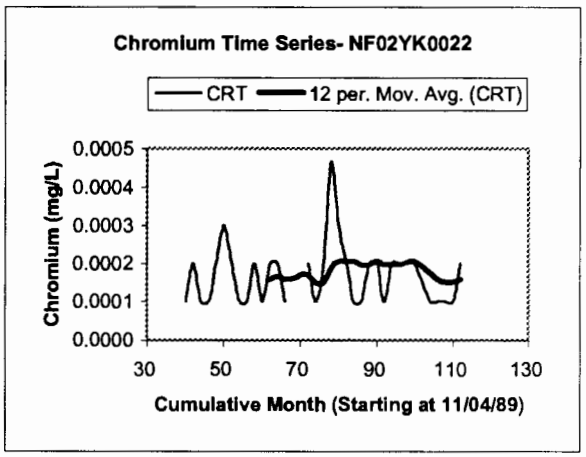

Nitrogen Time Series- NF02YC0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

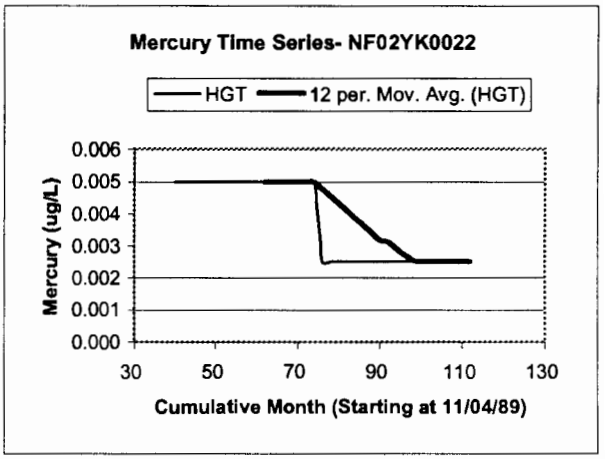

Phosphorous Time Series- NF02YC0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

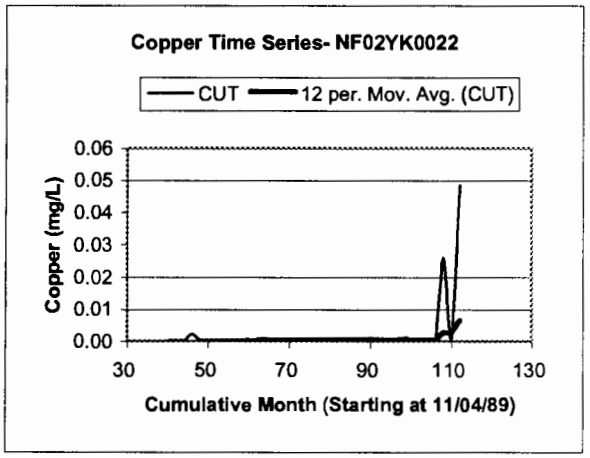

Silica Time Series- NF02YC0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

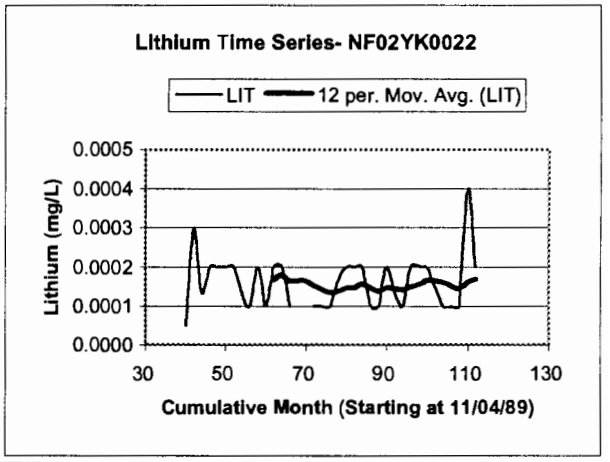

Nitrate & Nitrite Time Series- NF02YC0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

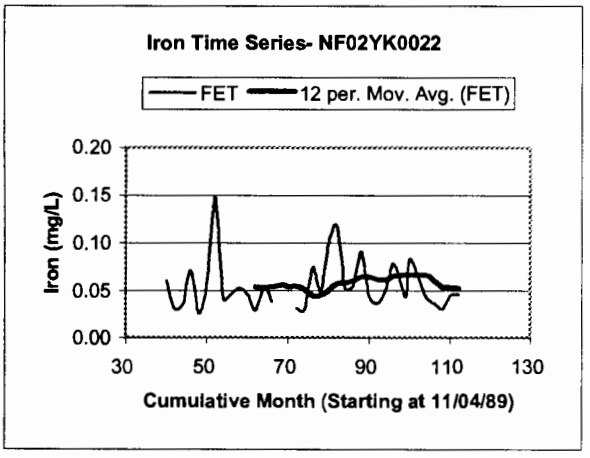

Arsenic Time Series- NF02YC0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
40
80
120
160
Cumulative Month (Starting 13/01/86)

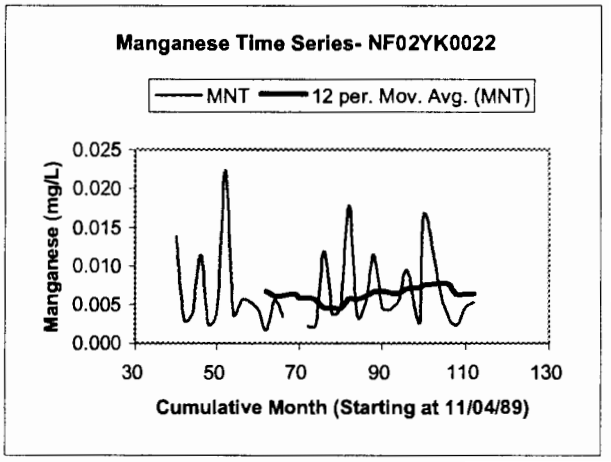

Chromium Time Series- NF02YK0022
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

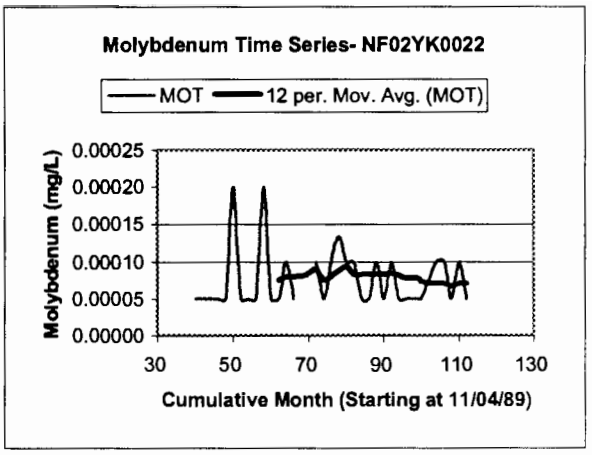

Mercury Time Series- NF02YK0022
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

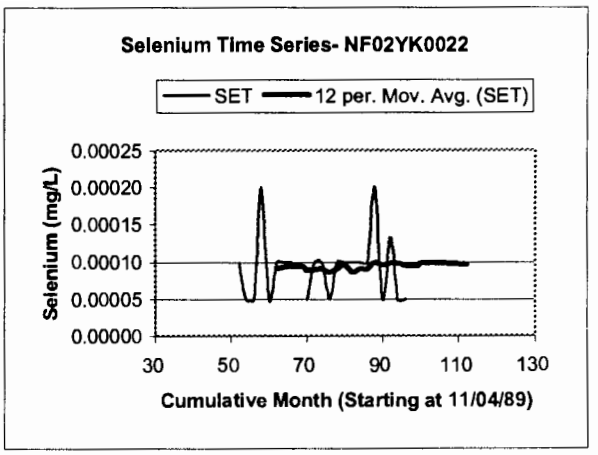

Copper Time Series- NF02YK0022
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

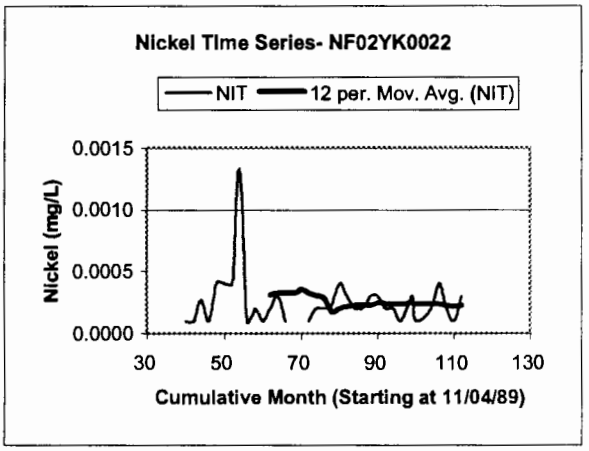

Lithium Time Series- NF02YK0022
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

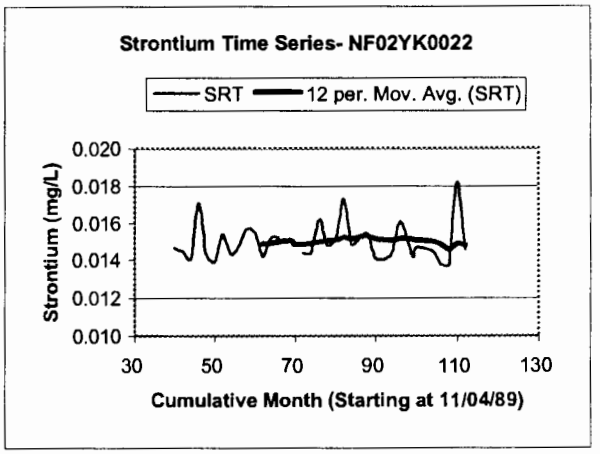

Iron Time Series- NF02YK0022
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.20
0.15
0.10
0.05
0.00
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

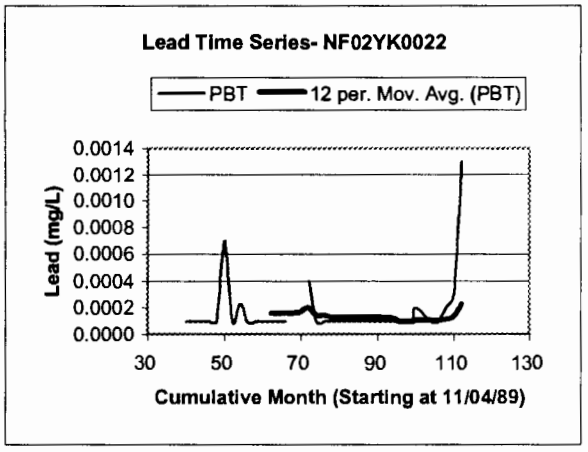

Manganese Time Series- NF02YK0022
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

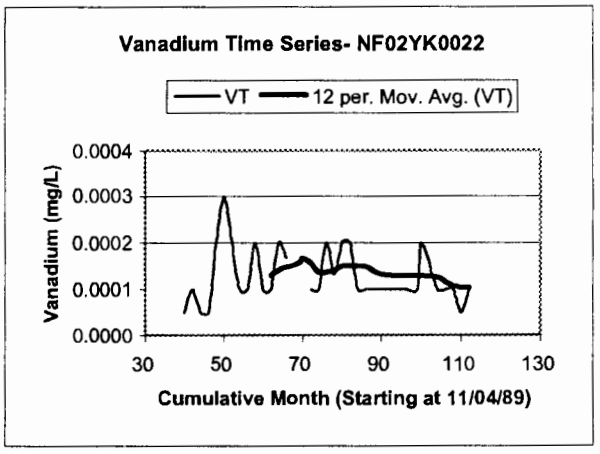

Molybdenum Time Series- NF02YK0022
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

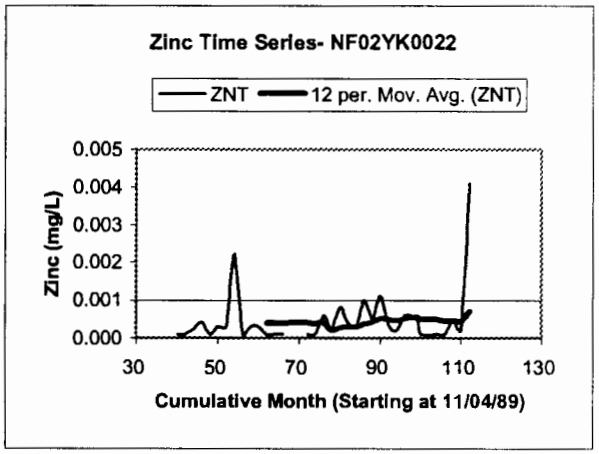

Selenium Time Series- NF02YK0022
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)


Nickel Time Series- NF02YK0022
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0015
0.0010
0.0005
0.0000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

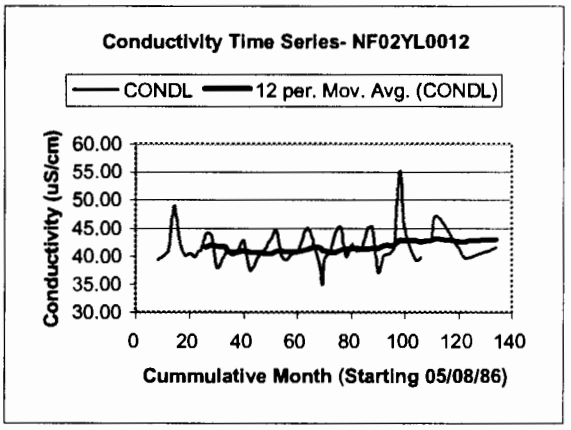

Strontium Time Series- NF02YK0022
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.020
0.018
0.016
0.014
0.012
0.010
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

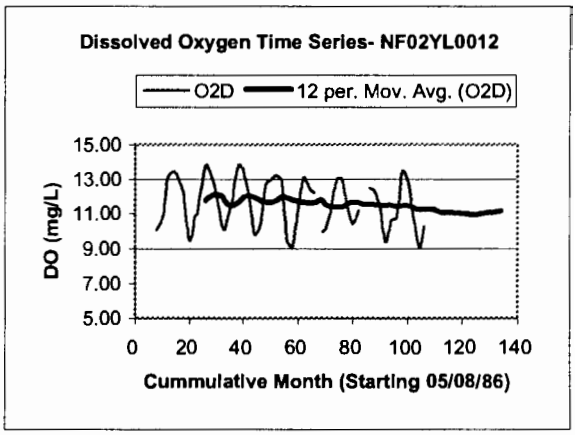

Lead Time Series- NF02YK0022
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

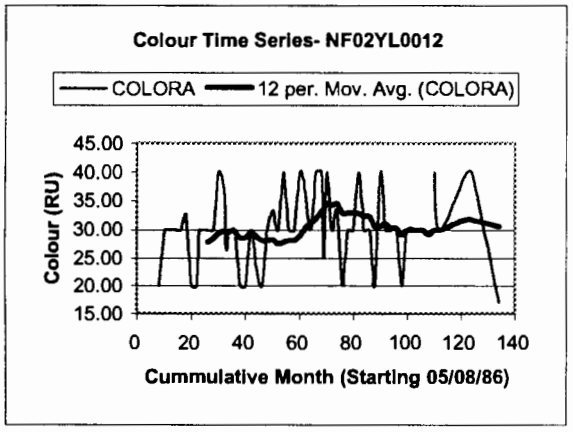

Vanadium Time Series- NF02YK0022
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0004
0.0003
0.0002
0.0001
0.0000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

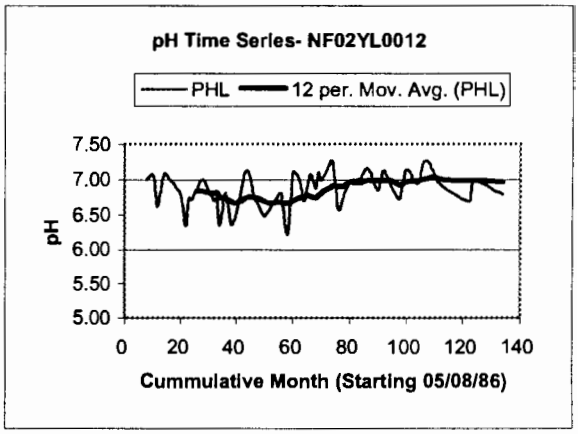

Zinc Time Series- NF02YK0022
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
30
50
70
90
110
130
Cumulative Month (Starting at 11/04/89)

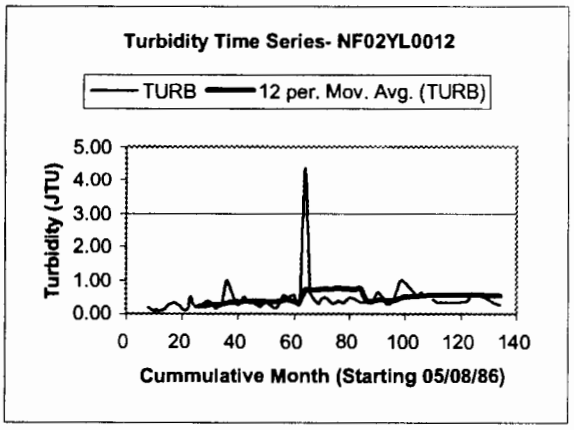
Time Series Plots of Lower Humber River- NF02YL0012

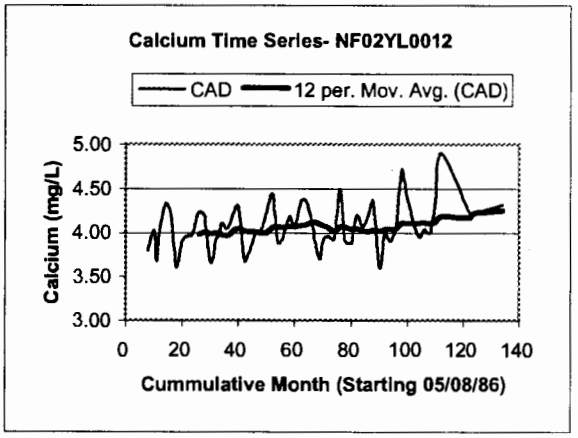


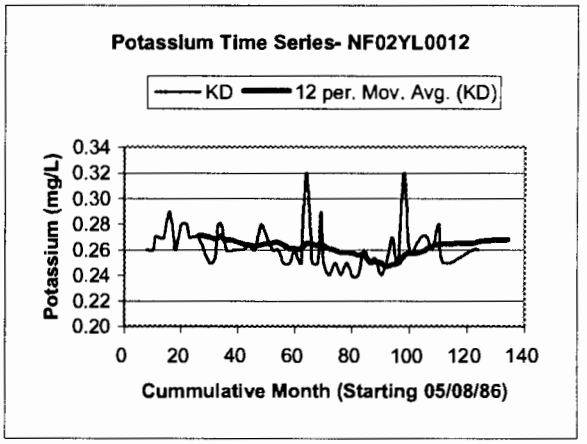


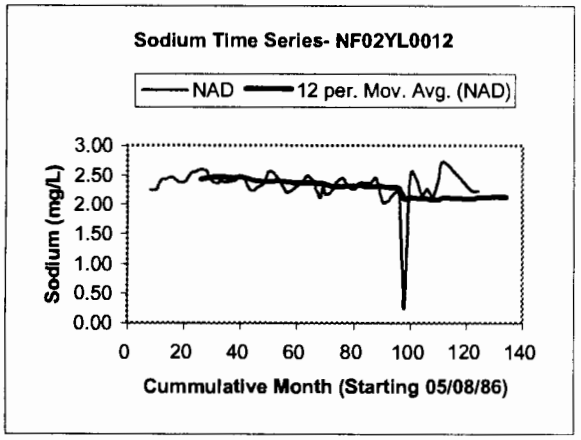


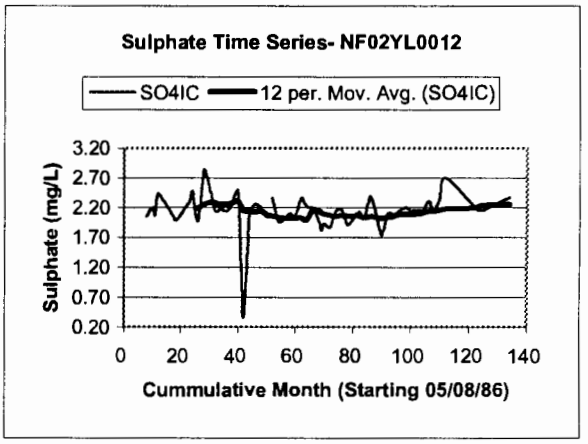


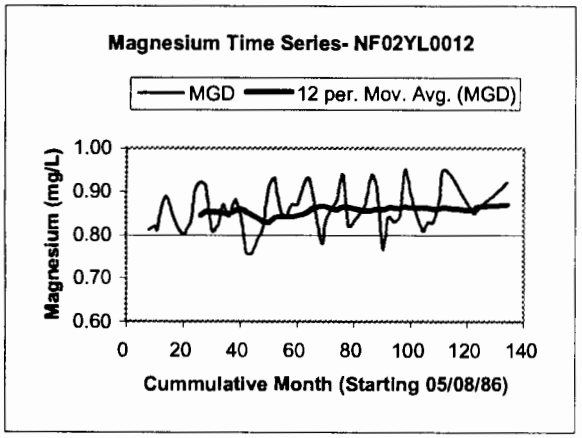


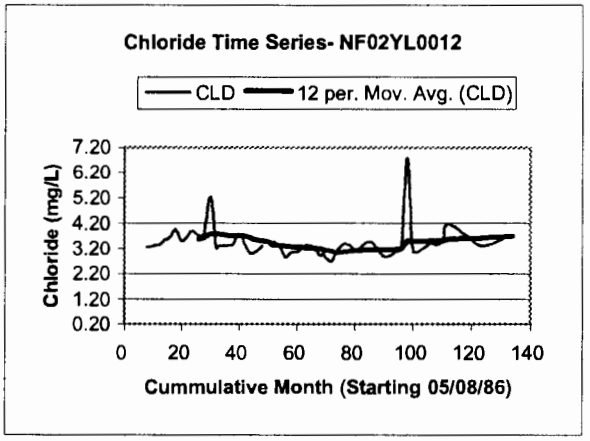

Calcium Time Series- NF02YL0012
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
5.00
4.50
4.00
3.50
3.00
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

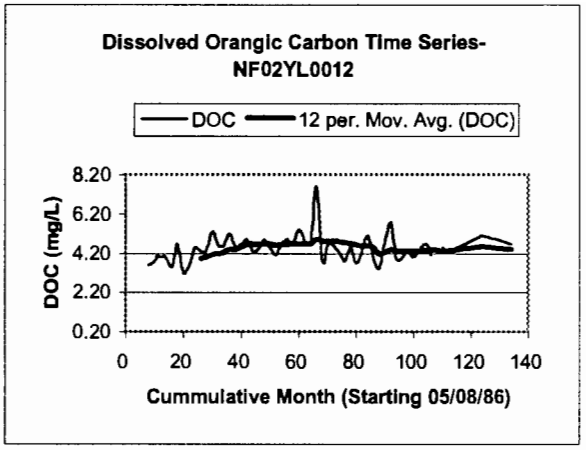

Potassium Time Series- NF02YL0012
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.34
0.32
0.30
0.28
0.26
0.24
0.22
0.20
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

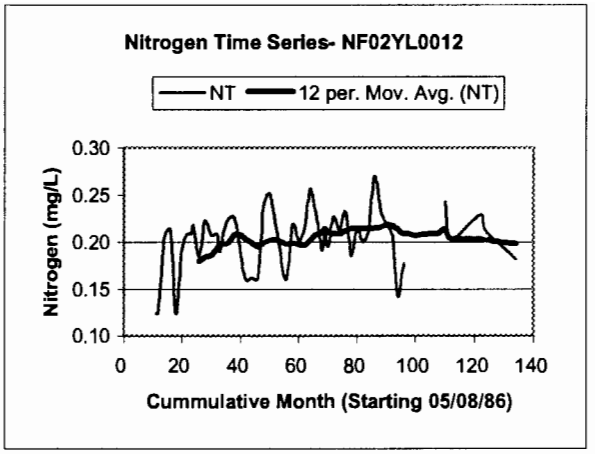

Sodium Time Series- NF02YL0012
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

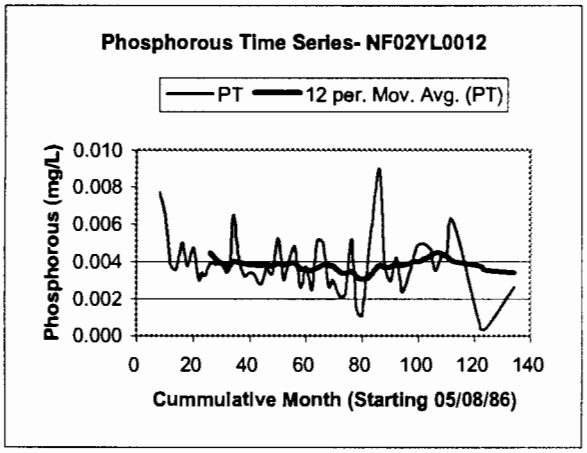

Sulphate Time Series- NF02YL0012
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.20
2.70
2.20
1.70
1.20
0.70
0.20
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

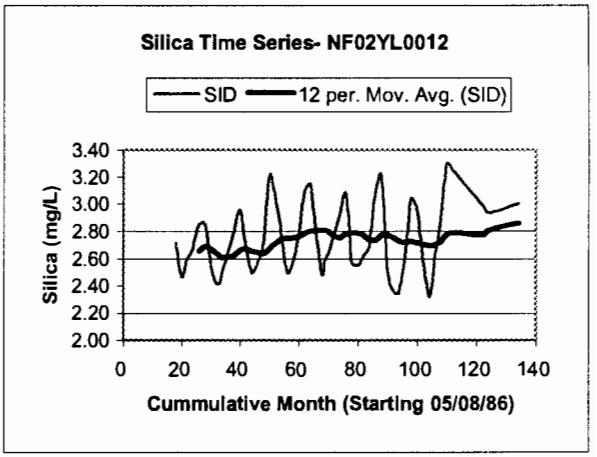

Magnesium Time Series- NF02YL0012
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.90
0.80
0.70
0.60
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

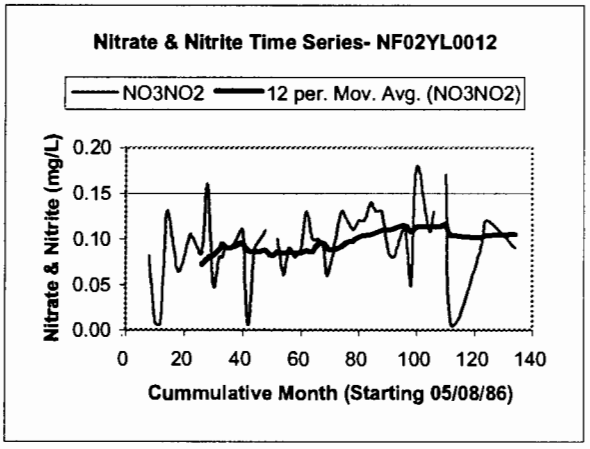

Chloride Time Series- NF02YL0012
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
7.20
6.20
5.20
4.20
3.20
2.20
1.20
0.20
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

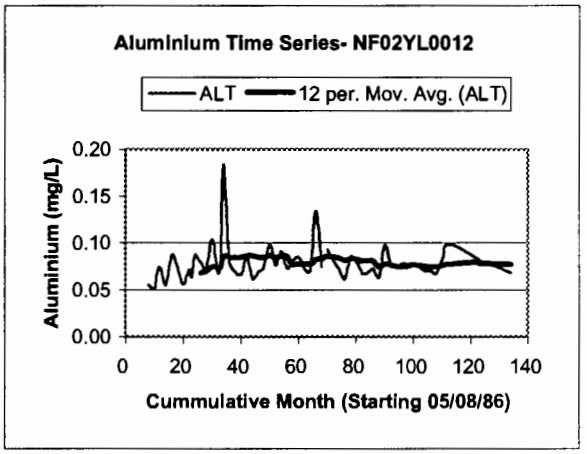

Dissolved Orangic Carbon Time Series- NF02YL0012
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
8.20
6.20
4.20
2.20
0.20
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

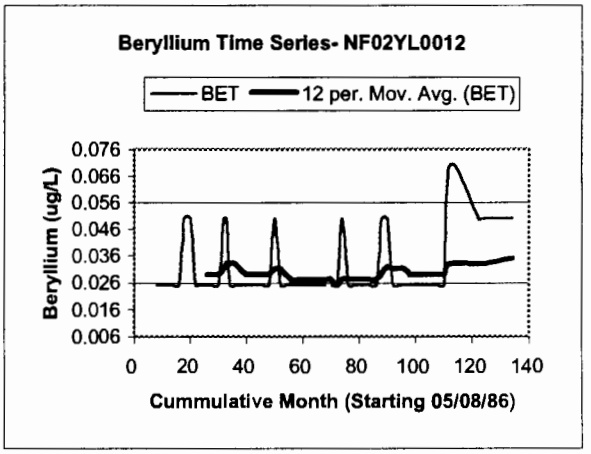

Nitrogen Time Series- NF02YL0012
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.30
0.25
0.20
0.15
0.10
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

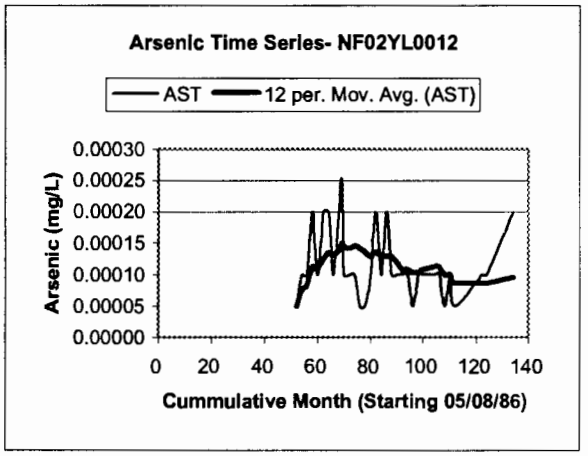

Phosphorous Time Series- NF02YL0012
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

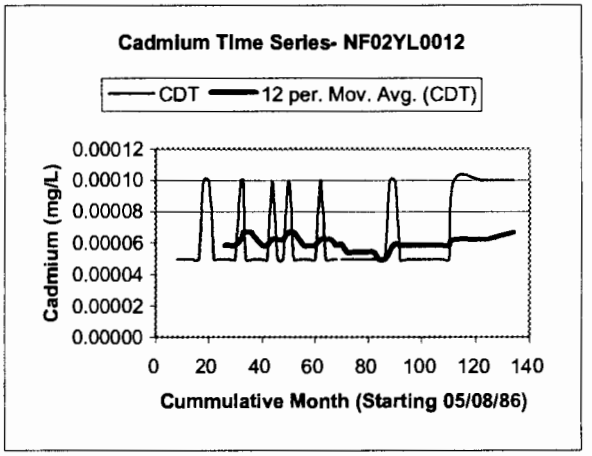

Silica Time Series- NF02YL0012
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.40
3.20
3.00
2.80
2.60
2.40
2.20
2.00
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

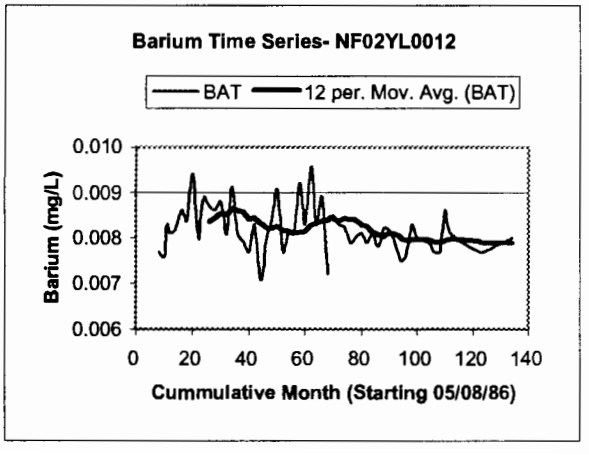

Nitrate & Nitrite Time Series- NF02YL0012
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

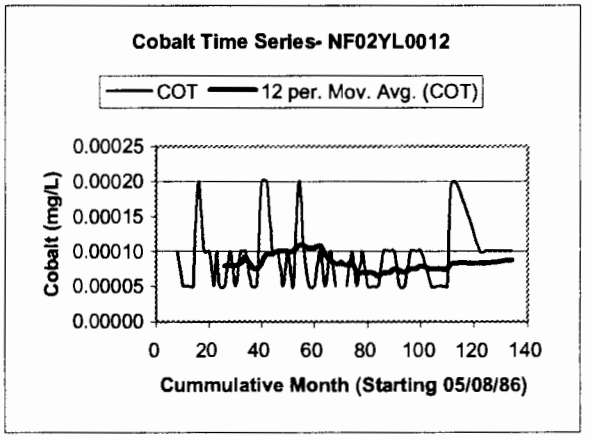

Aluminium Time Series- NF02YL0012
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

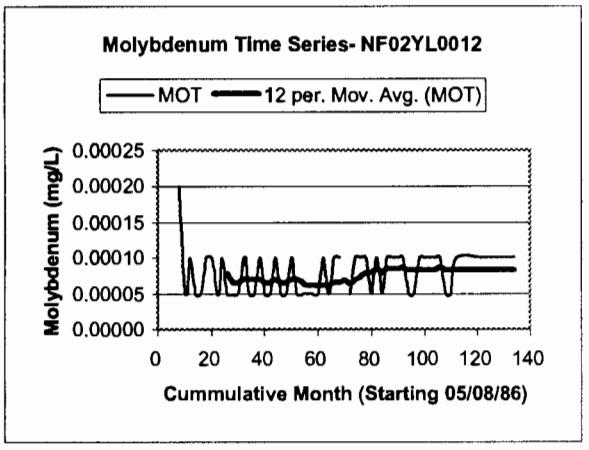

Beryllium Time Series- NF02YL0012
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.076
0.066
0.056
0.046
0.036
0.026
0.016
0.006
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

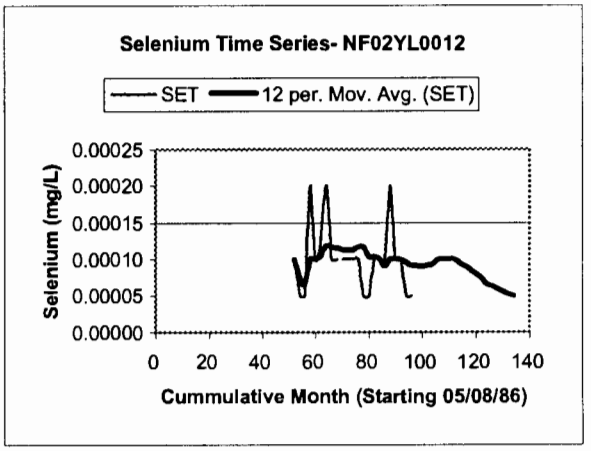

Arsenic Time Series- NF02YL0012
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

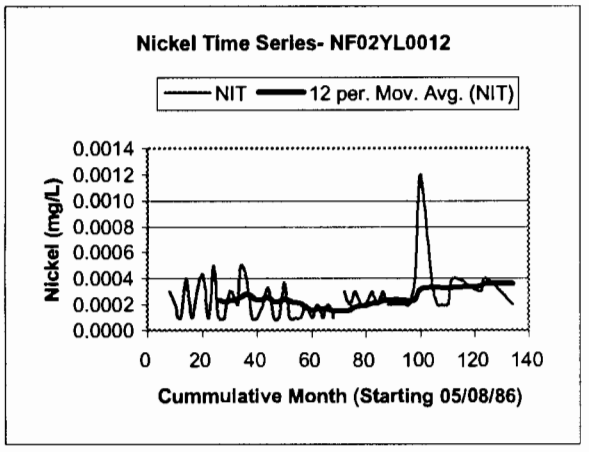

Cadmium Time Series- NF02YL0012
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

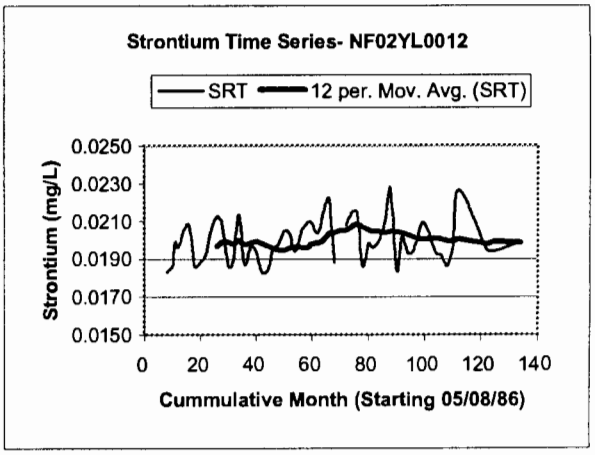

Barium Time Series- NF02YL0012
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.010
0.009
0.008
0.007
0.006
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

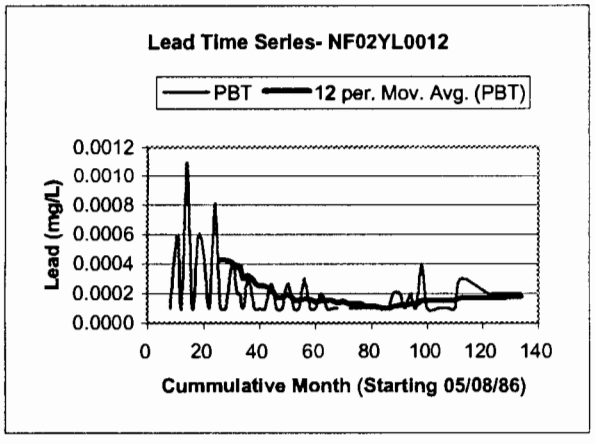

Cobalt Time Series- NF02YL0012
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

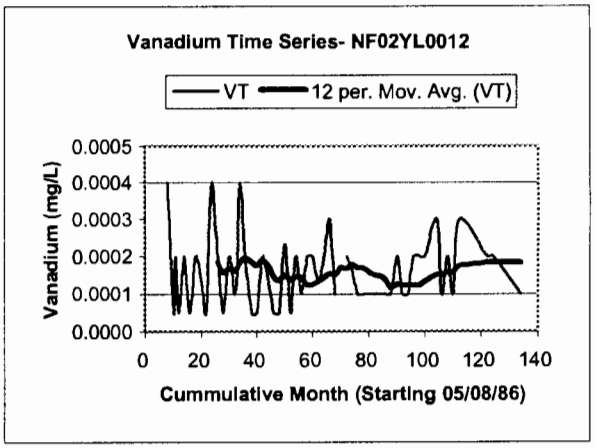

Molybdenum Time Series- NF02YL0012
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

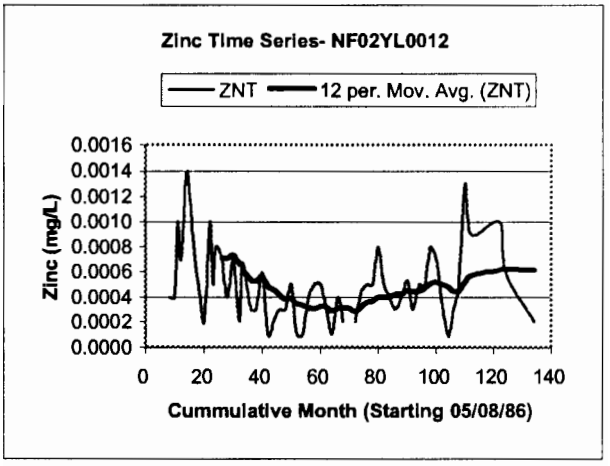

Selenium Time Series- NF02YL0012
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

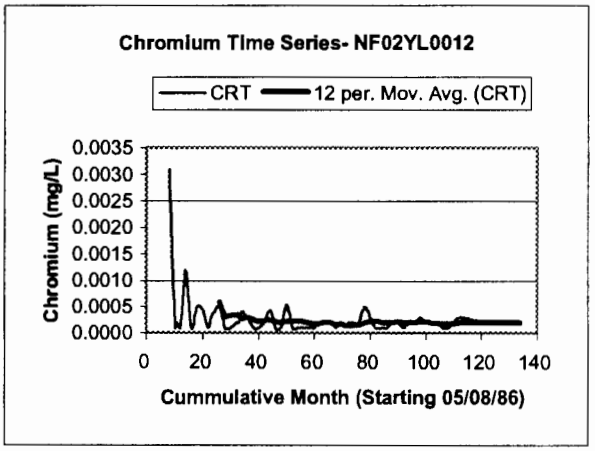

Nickel Time Series- NF02YL0012
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

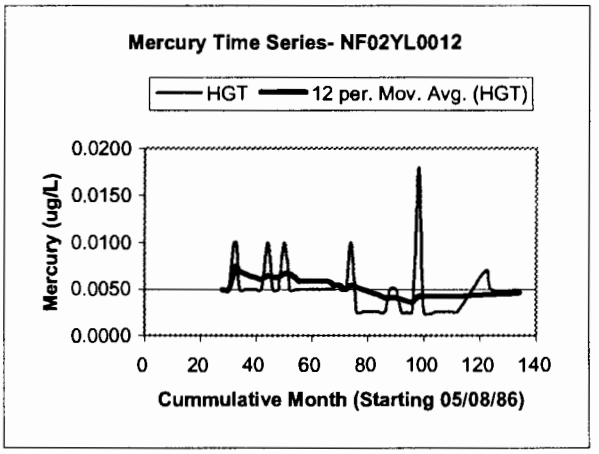

Strontium Time Series- NF02YL0012
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.0250
0.0230
0.0210
0.0190
0.0170
0.0150
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

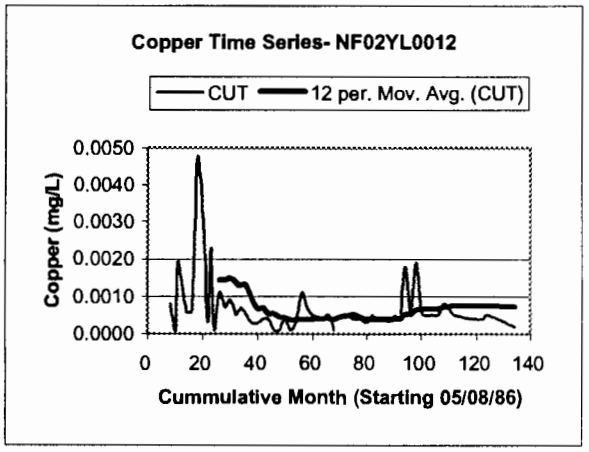

Lead Time Series- NF02YL0012
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

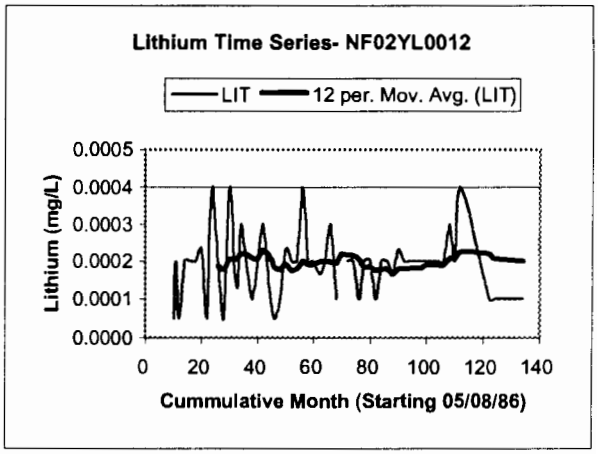

Vanadium Time Series- NF02YL0012
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

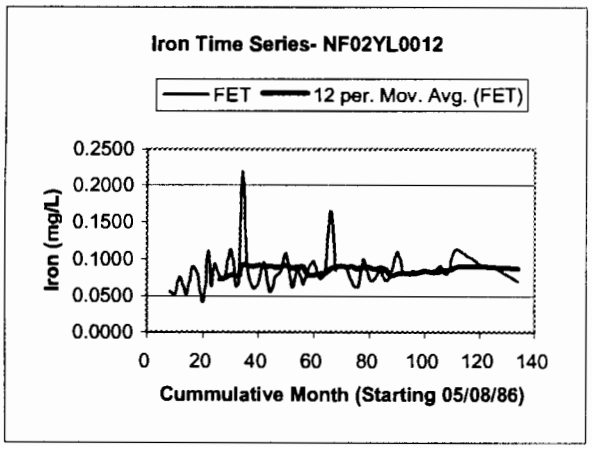

Zinc Time Series- NF02YL0012
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
140
Cummulative Month (Starting 05/08/86)

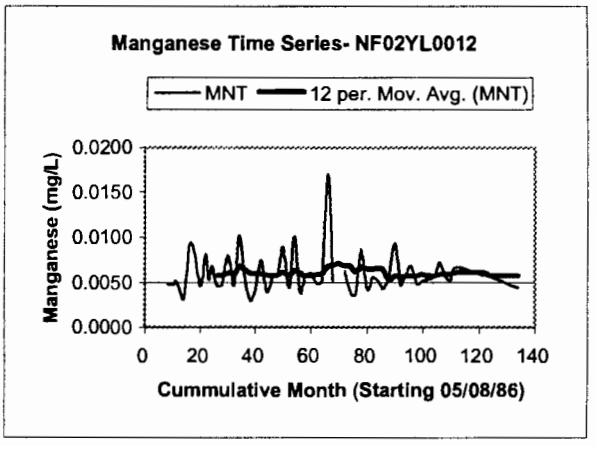

Chromium Time Series- NF02YL0012
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

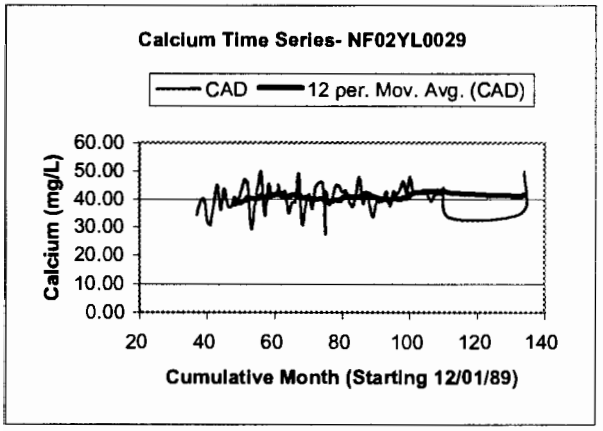

Mercury Time Series- NF02YL0012
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.0200
0.0150
0.0100
0.0050
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

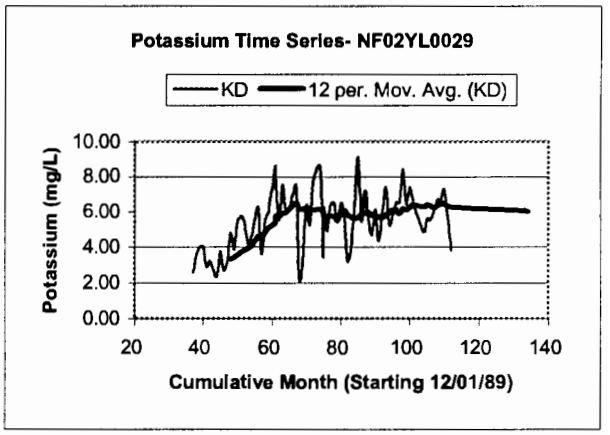

Copper Time Series- NF02YL0012
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.0050
0.0040
0.0030
0.0020
0.0010
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

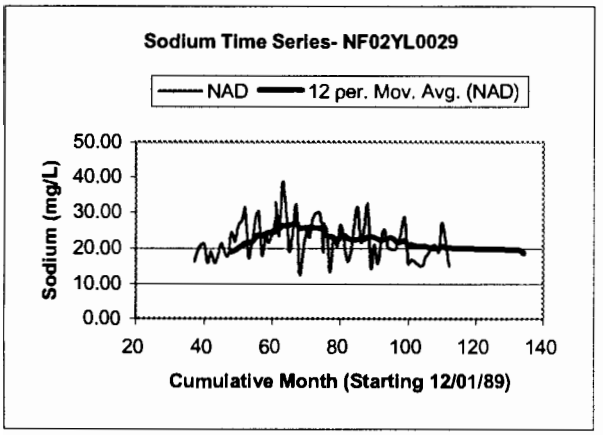

Lithium Time Series- NF02YL0012
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

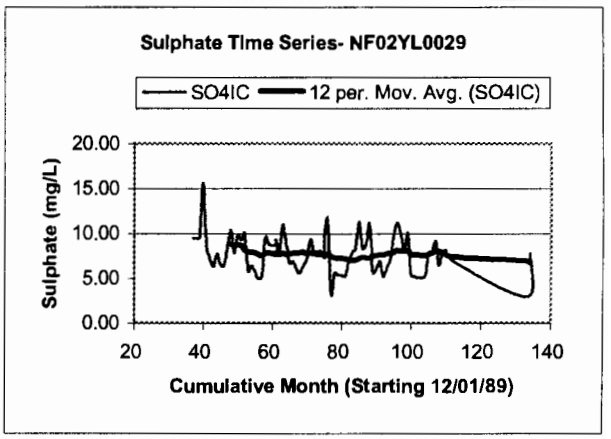

Iron Time Series- NF02YL0012
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

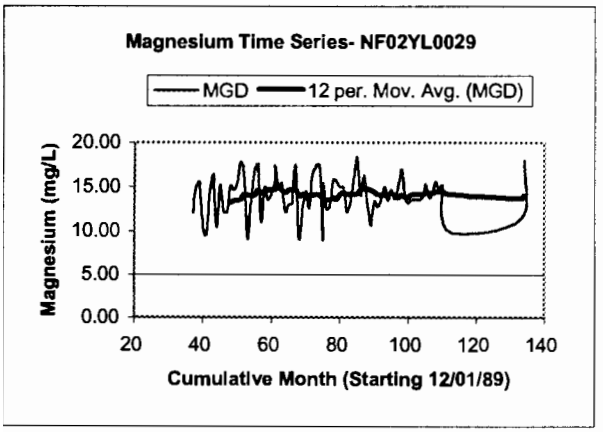

Manganese Time Series- NF02YL0012
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.0200
0.0150
0.0100
0.0050
0.0000
0 20 40 60 80 100 120 140
Cummulative Month (Starting 05/08/86)

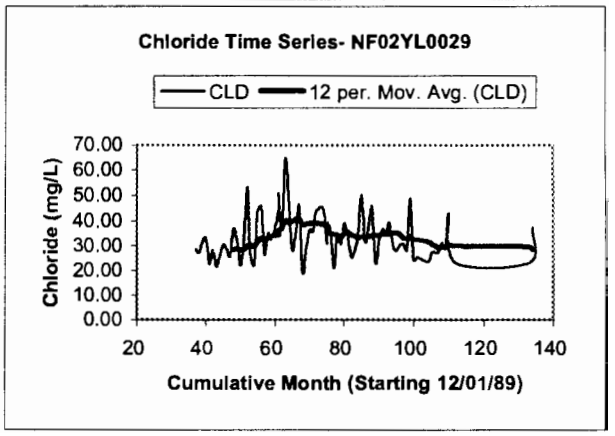

Calcium Time Series- NF02YL0029
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)


Potassium Time Series- NF02YL0029
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

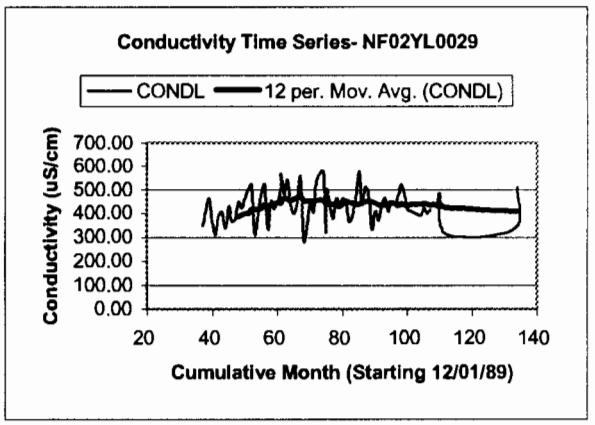

Sodium Time Series- NF02YL0029
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
50.00
40.00
30.00
20.00
10.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

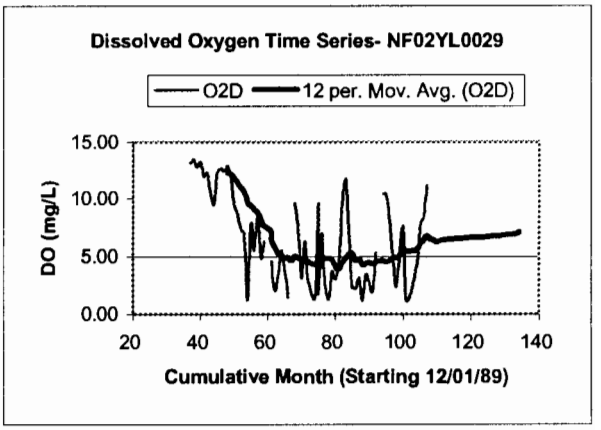

Sulphate Time Series- NF02YL0029
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
20.00
15.00
10.00
5.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

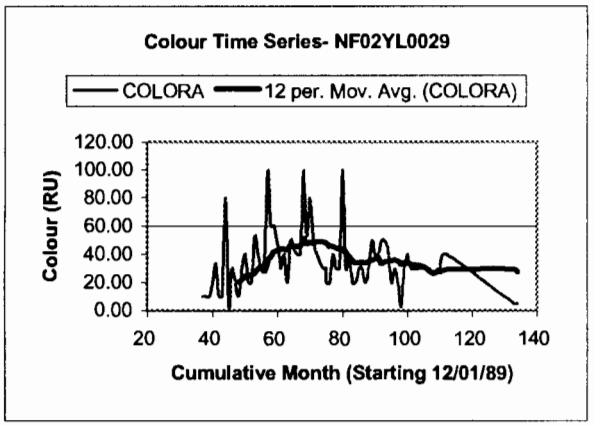

Magnesium Time Series- NF02YL0029
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
20.00
15.00
10.00
5.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

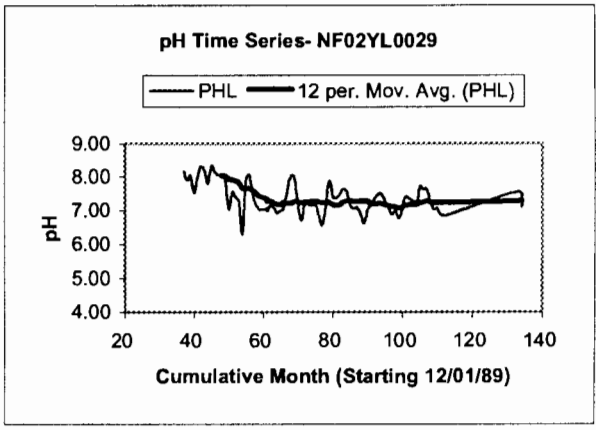

Chloride Time Series- NF02YL0029
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

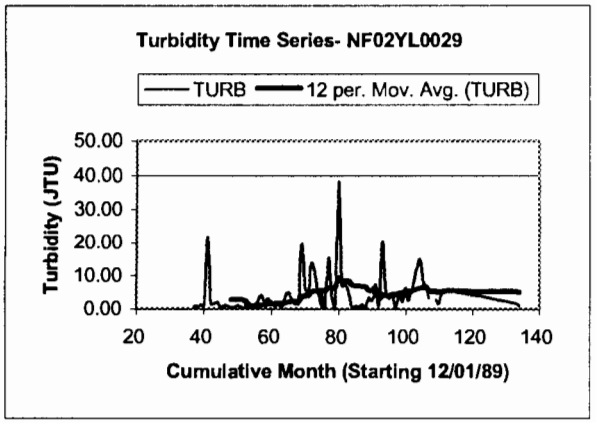
Time Series Plots of Wild Cove Brook- NF02YL0029

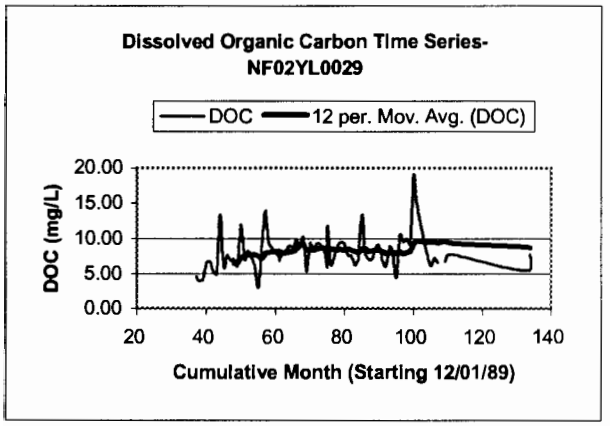


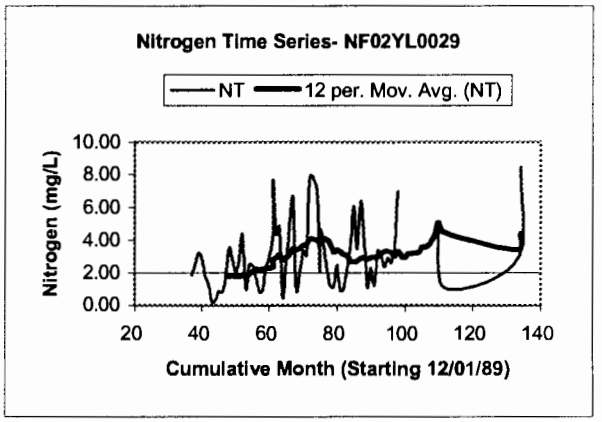


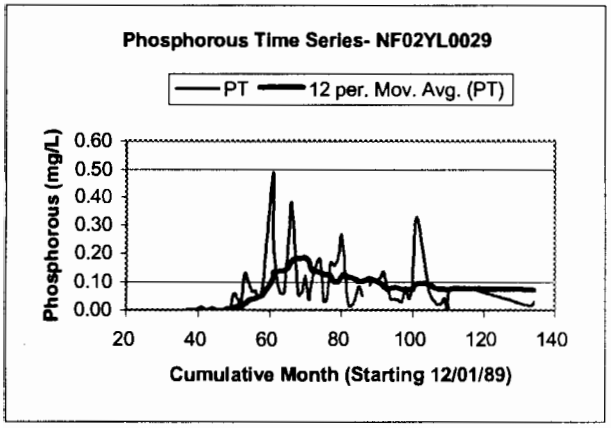


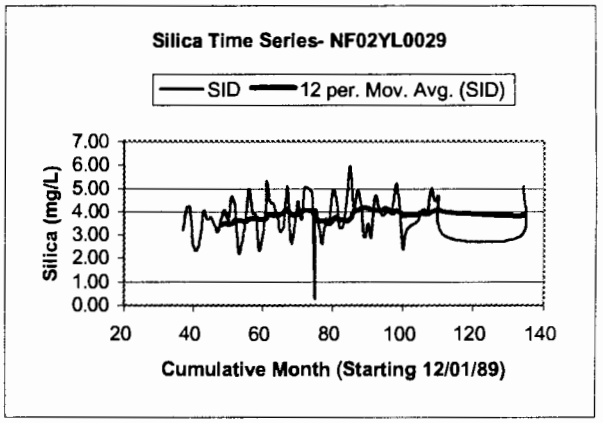


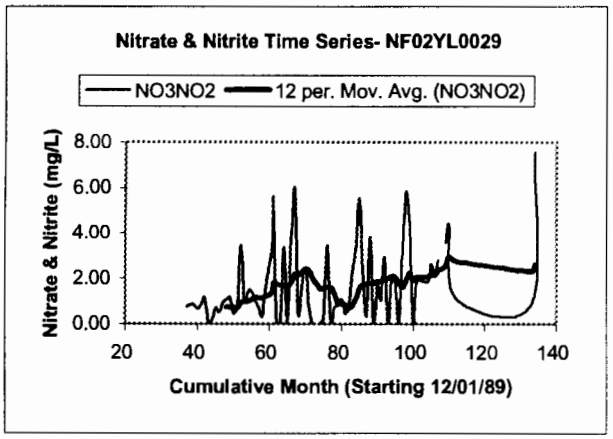


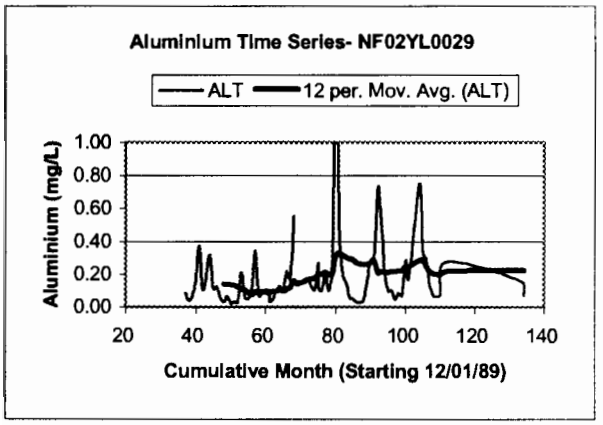

Dissolved Organic Carbon Time Series- NF02YL0029
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

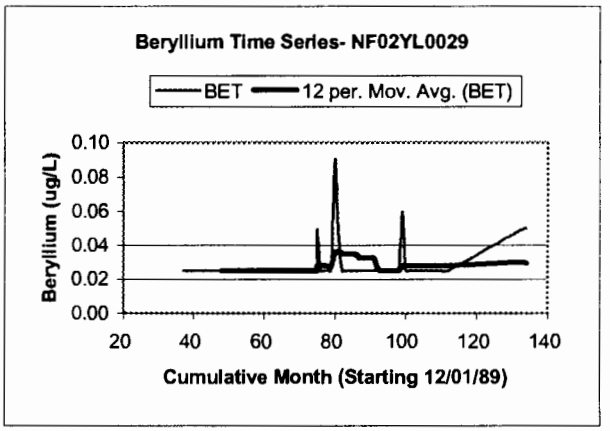

Nitrogen Time Series- NF02YL0029
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

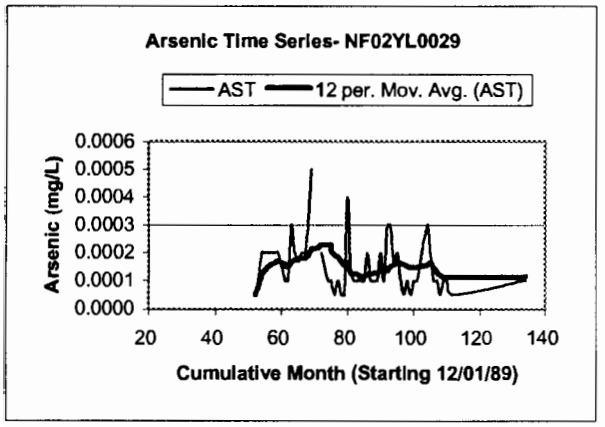

Phosphorous Time Series- NF02YL0029
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

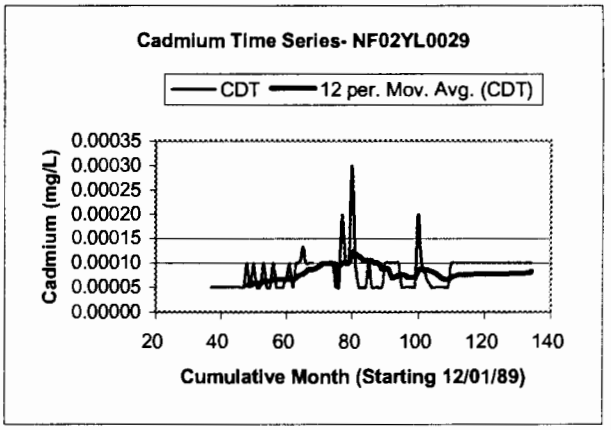

Silica Time Series- NF02YL0029
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

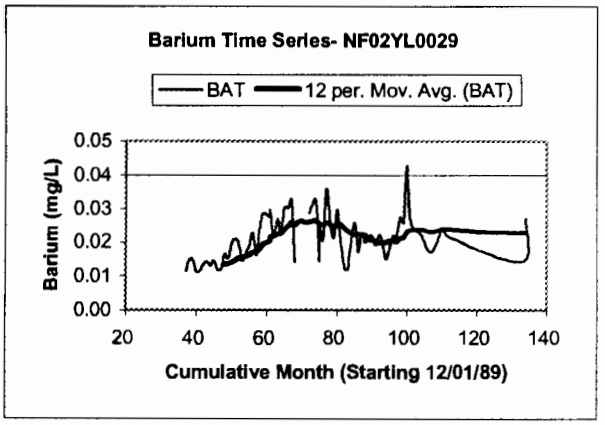

Nitrate & Nitrite Time Series- NF02YL0029
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
8.00
6.00
4.00
2.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

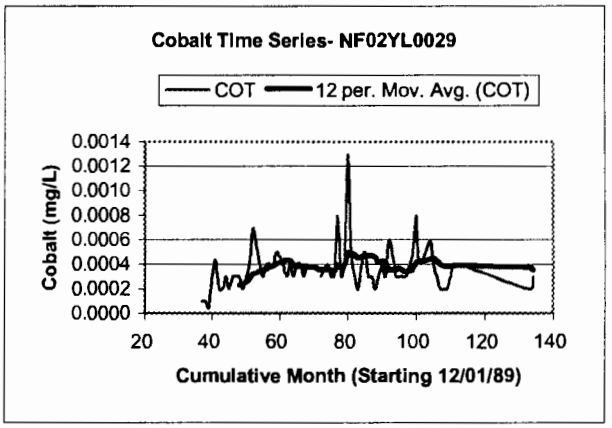

Aluminium Time Series- NF02YL0029
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

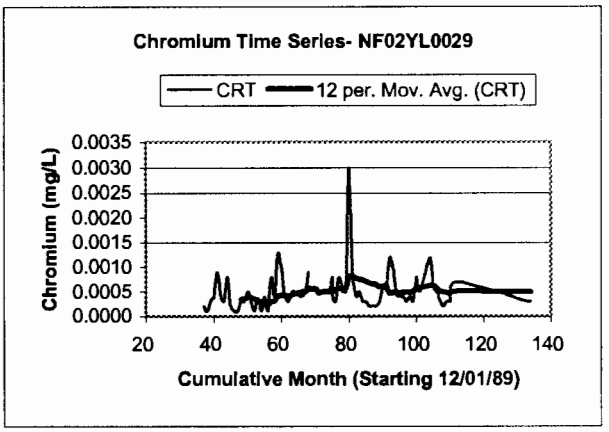

Beryllium Time Series- NF02YL0029
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.10
0.08
0.06
0.04
0.02
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

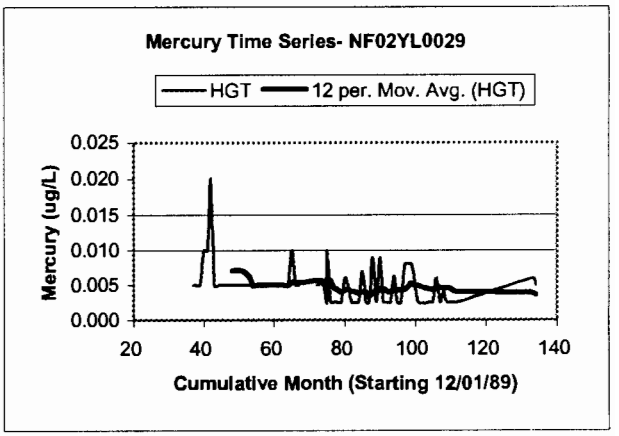

Arsenic Time Series- NF02YL0029
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

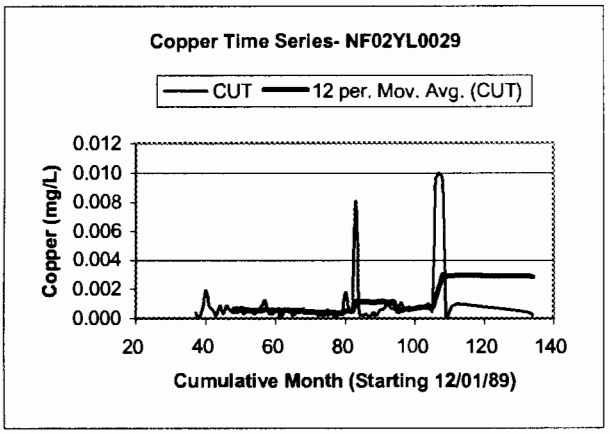

Cadmium Time Series- NF02YL0029
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

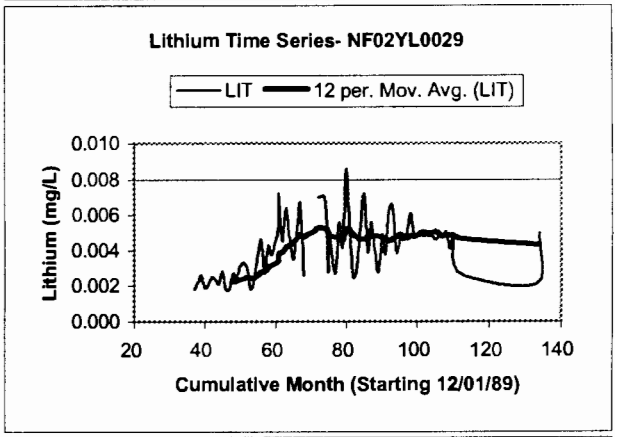

Barium Time Series- NF02YL0029
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

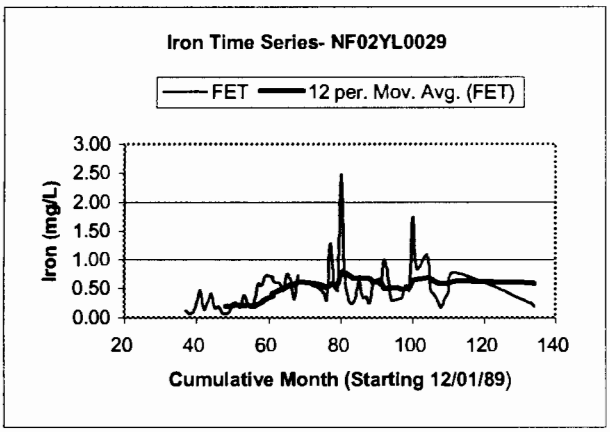

Cobalt Time Series- NF02YL0029
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

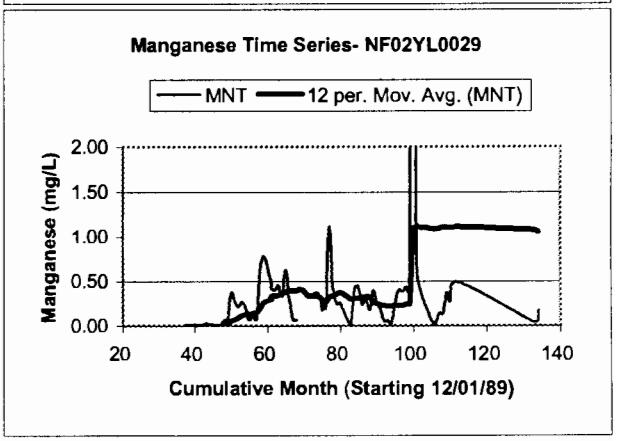

Chromium Time Series- NF02YL0029
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

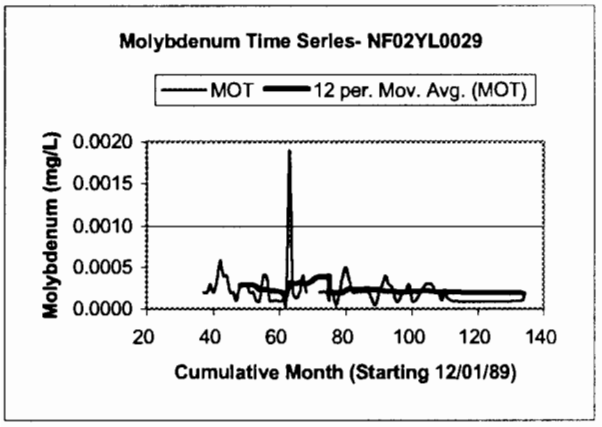

Mercury Time Series- NF02YL0029
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

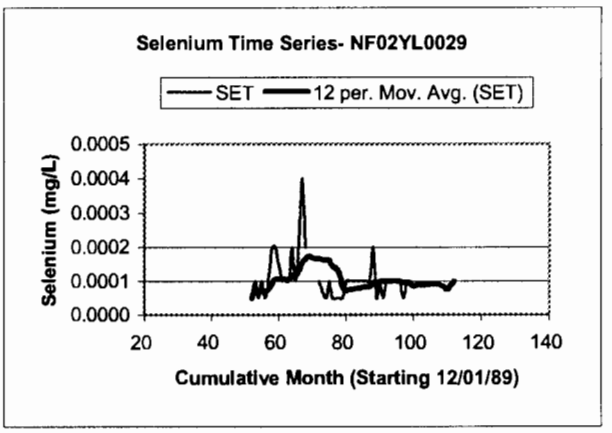

Copper Time Series- NF02YL0029
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

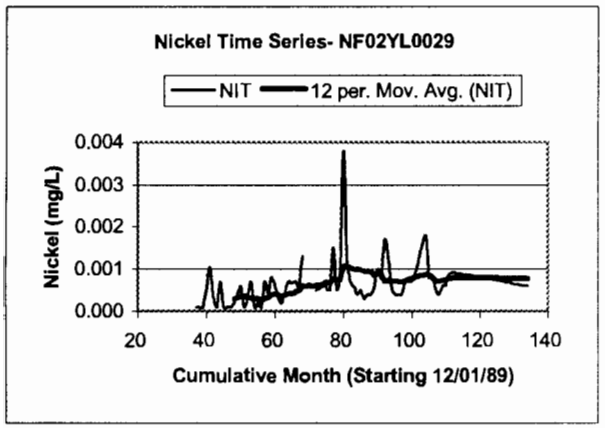

Lithium Time Series- NF02YL0029
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

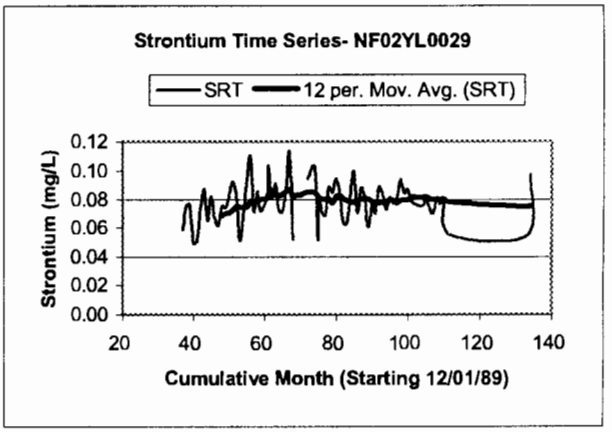

Iron Time Series- NF02YL0029
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

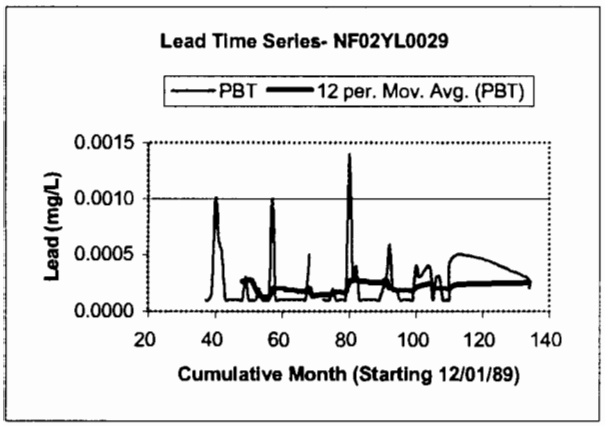

Manganese Time Series- NF02YL0029
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
2.00
1.50
1.00
0.50
0.00
20 40 60 80 100 120 140
Cumulative Month (Starting 12/01/89)

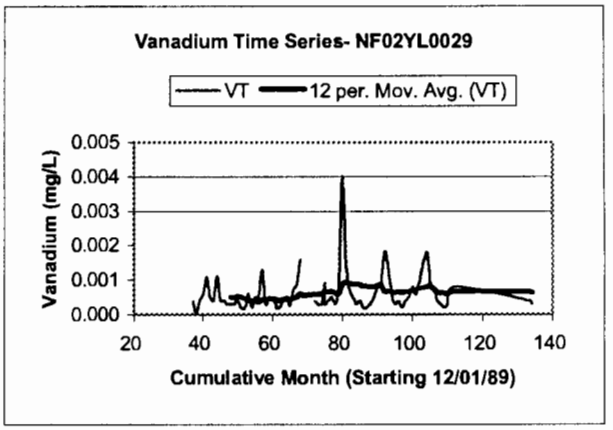

Molybdenum Time Series- NF02YL0029
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

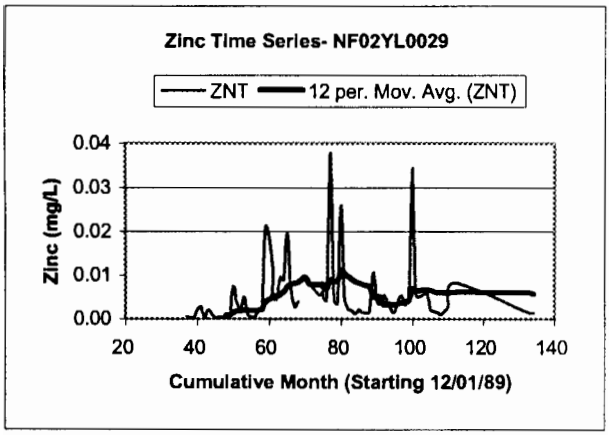

Selenium Time Series- NF02YL0029
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)


Nickel Time Series- NF02YL0029
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.004
0.003
0.002
0.001
0.000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

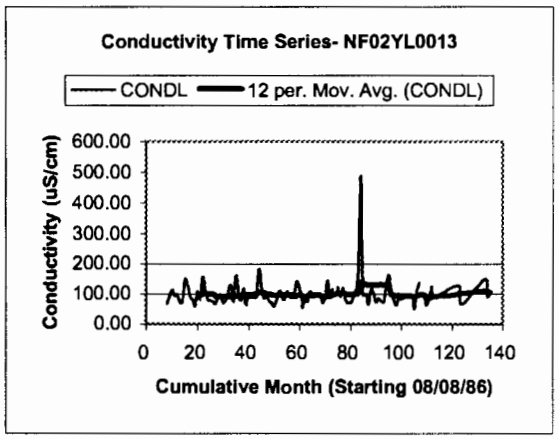

Strontium Time Series- NF02YL0029
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

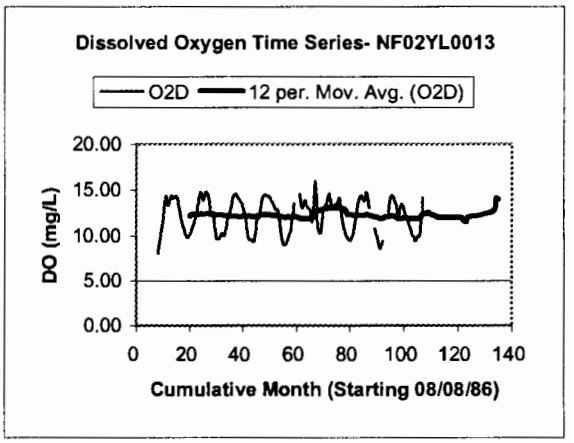

Lead Time Series- NF02YL0029
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0015
0.0010
0.0005
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

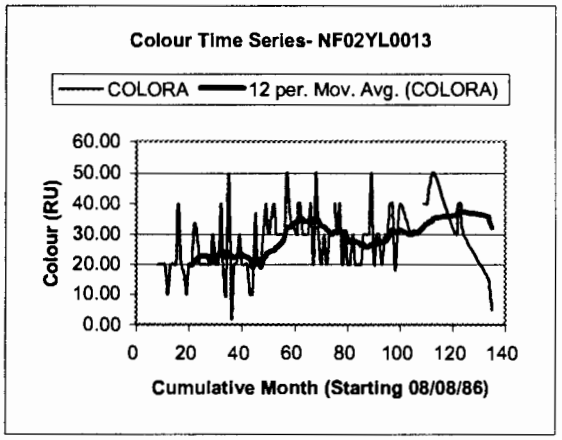

Vanadium Time Series- NF02YL0029
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

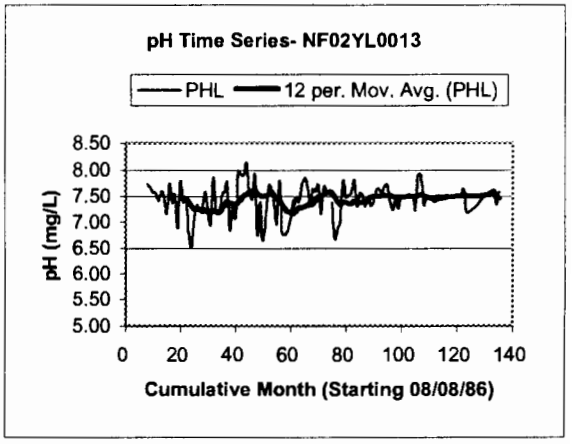

Zinc Time Series- NF02YL0029
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.04
0.03
0.02
0.01
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 12/01/89)

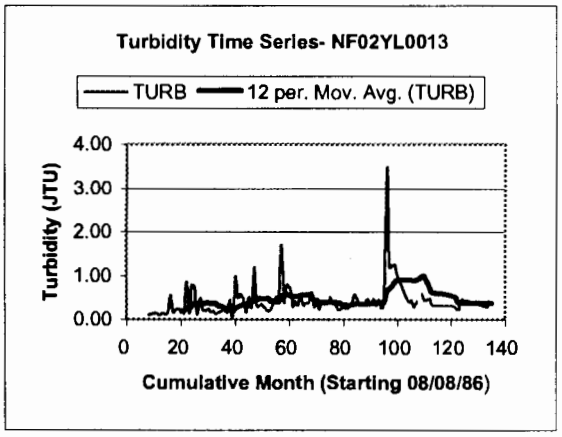
Time Series Plots of Corner Brook- NF02YL0013

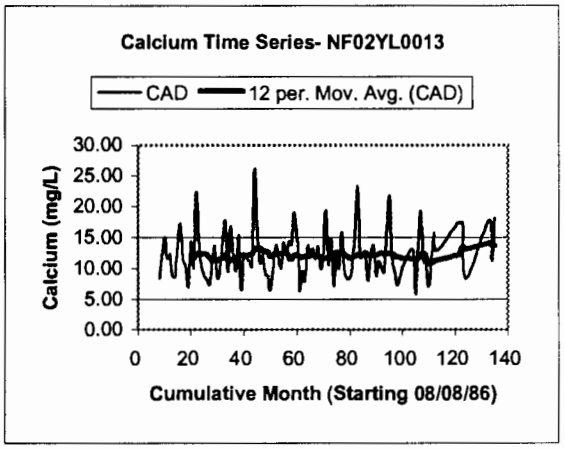


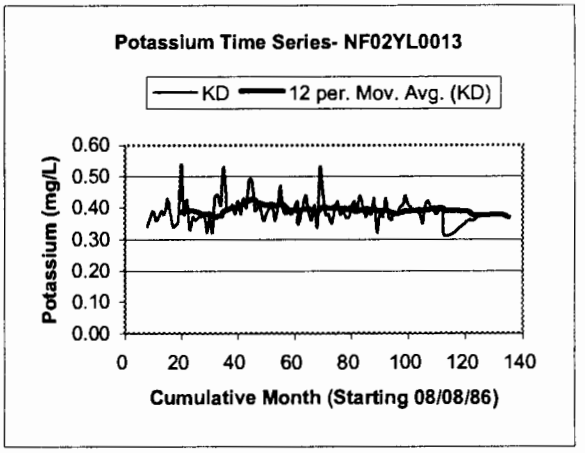


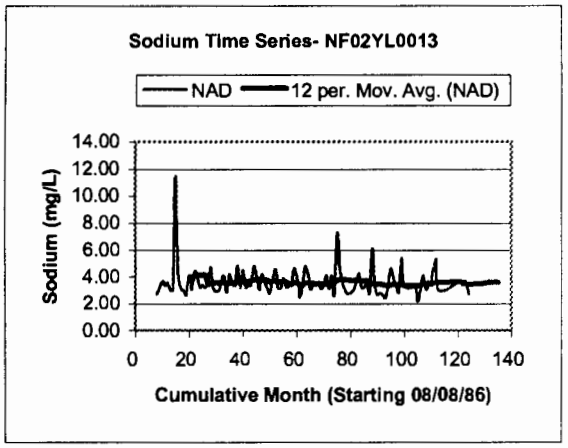


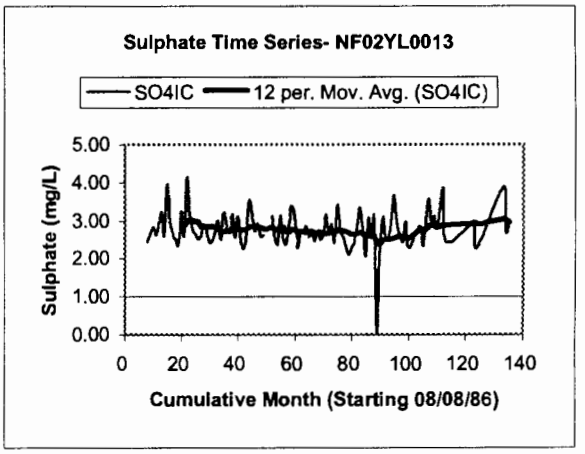


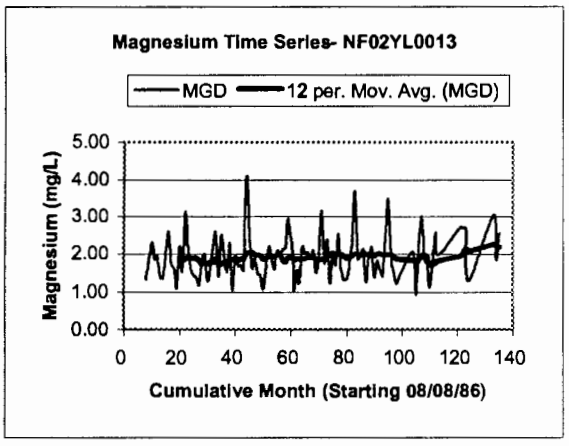


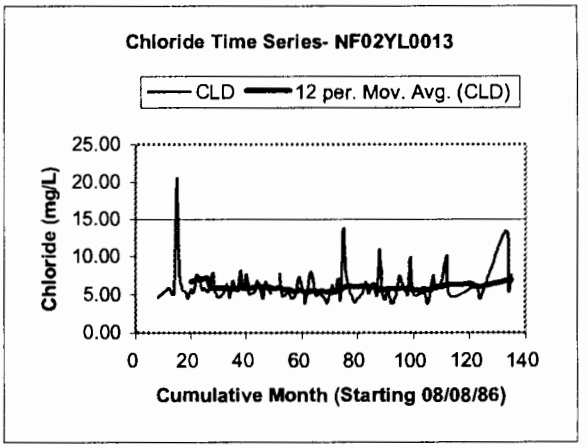

Calcium Time Series- NF02YL0013
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

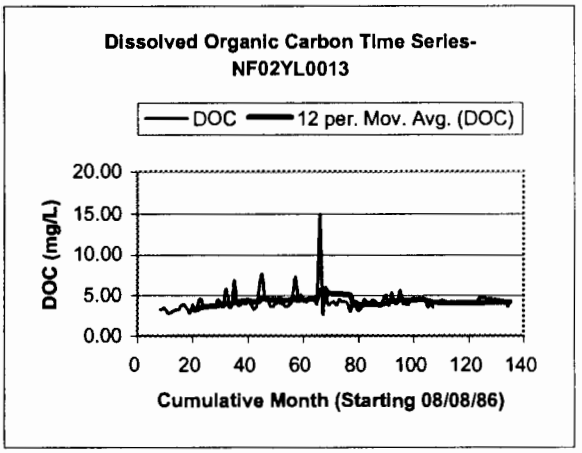

Potassium Time Series- NF02YL0013
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

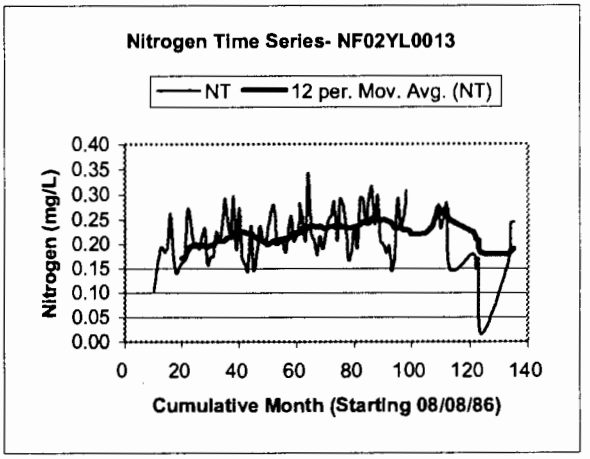

Sodium Time Series- NF02YL0013
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

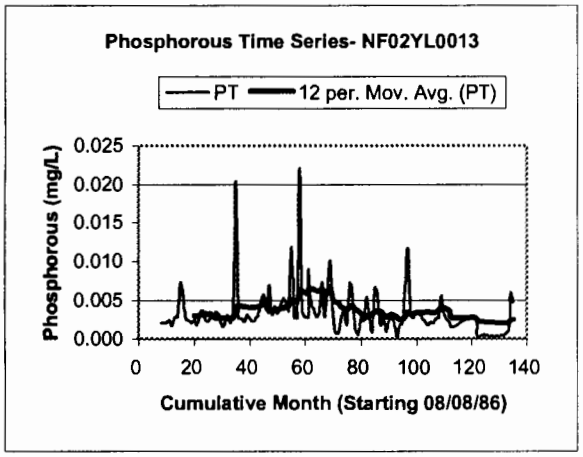

Sulphate Time Series- NF02YL0013
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

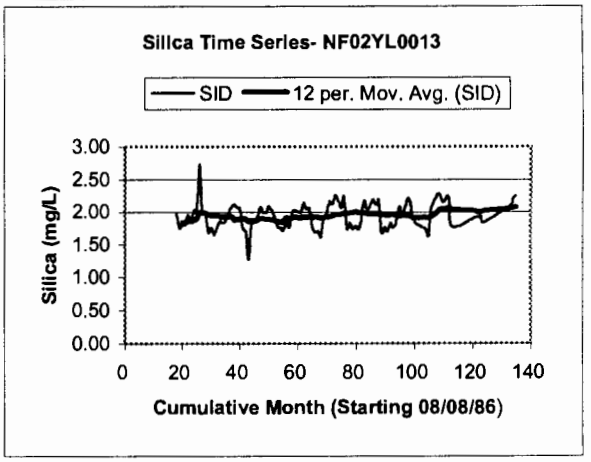

Magnesium Time Series- NF02YL0013
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

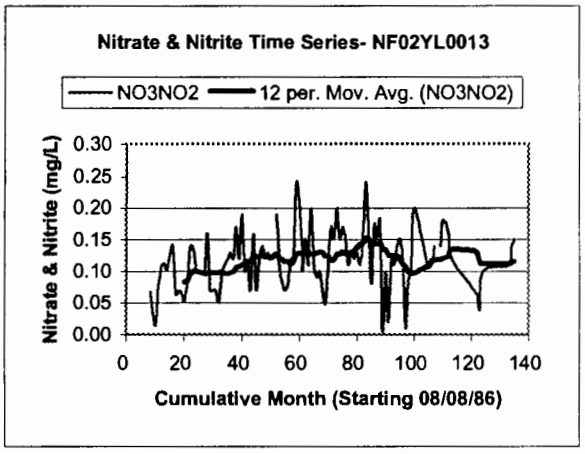

Chloride Time Series- NF02YL0013
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

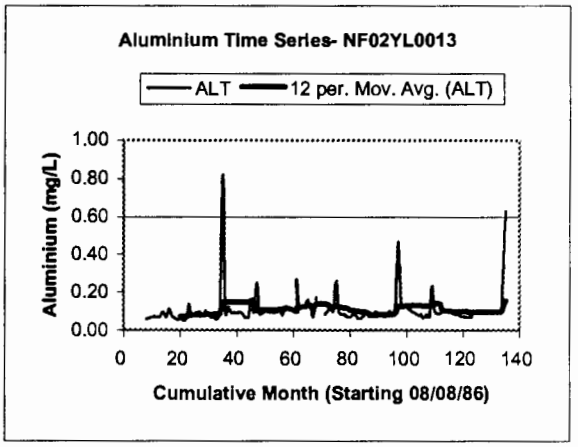

Dissolved Organic Carbon Time Series- NF02YL0013
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

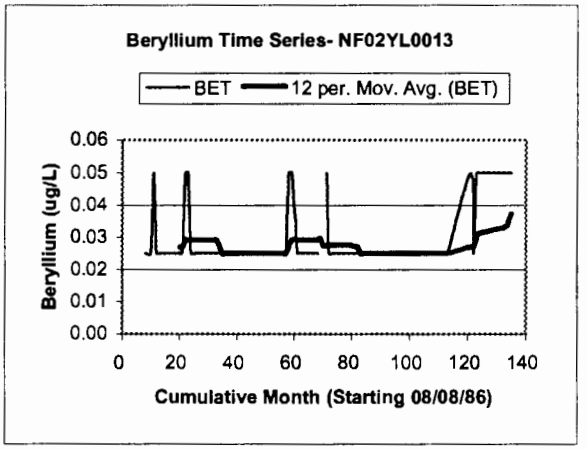

Nitrogen Time Series- NF02YL0013
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

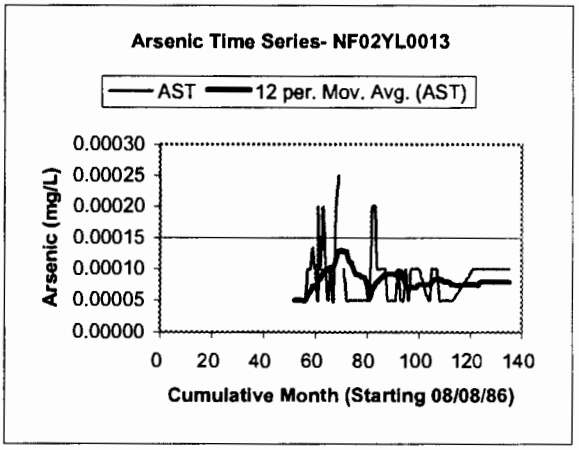

Phosphorous Time Series- NF02YL0013
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

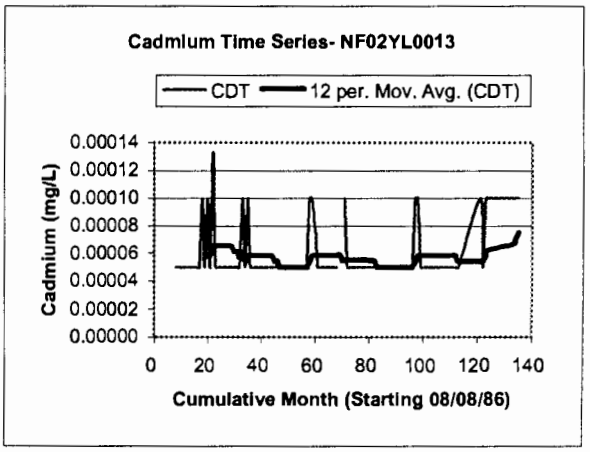

Silica Time Series- NF02YL0013
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

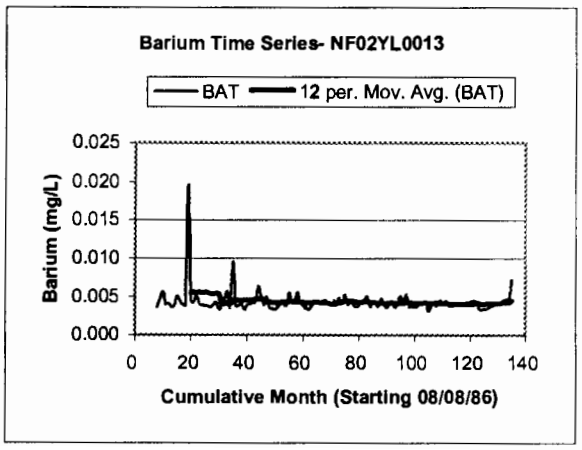

Nitrate & Nitrite Time Series- NF02YL0013
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

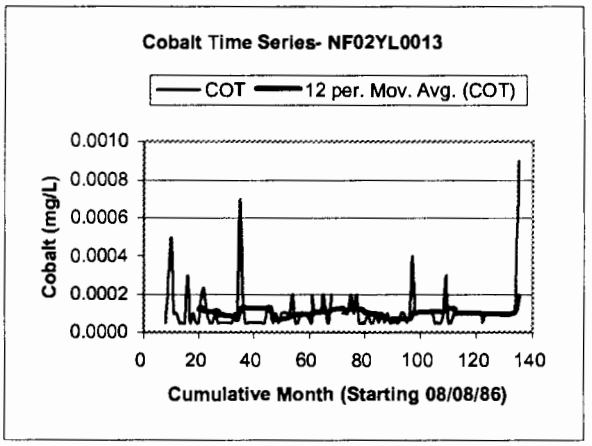

Aluminium Time Series- NF02YL0013
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

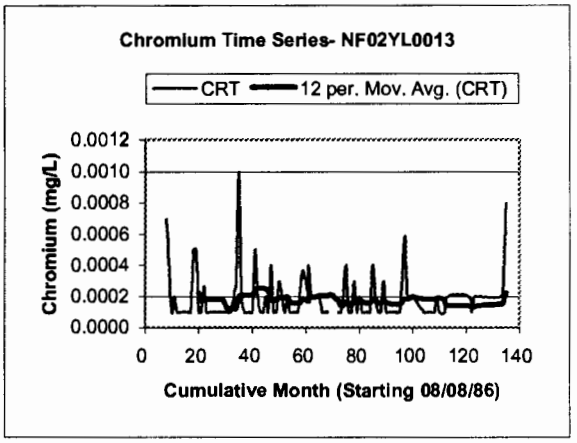

Beryllium Time Series- NF02YL0013
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

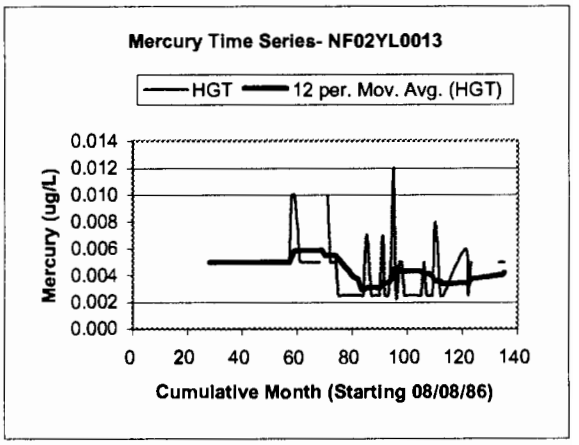

Arsenic Time Series- NF02YL0013
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

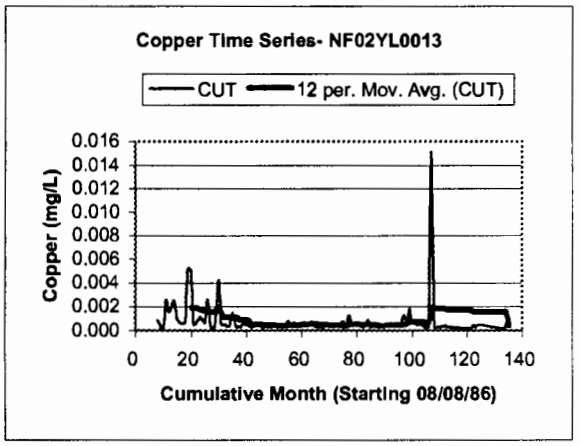

Cadmium Time Series- NF02YL0013
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

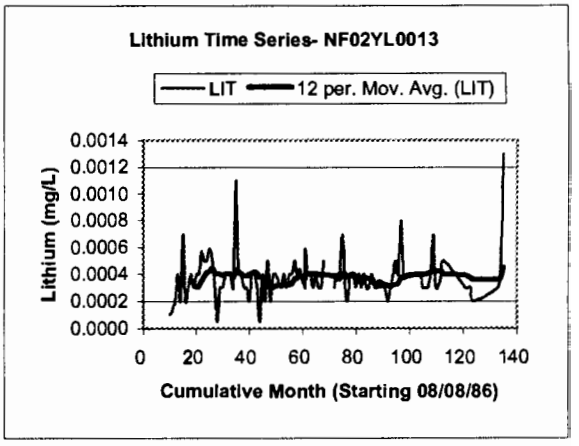

Barium Time Series- NF02YL0013
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

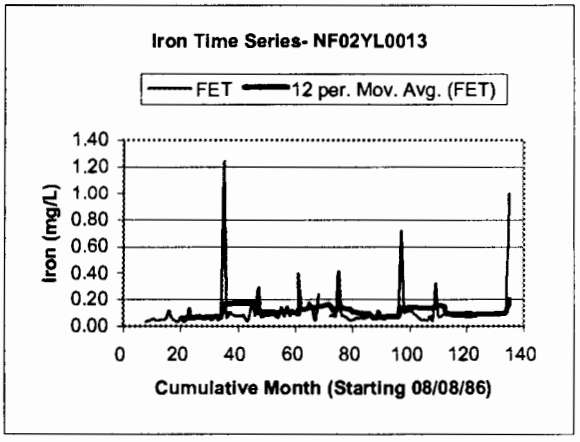

Cobalt Time Series- NF02YL0013
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

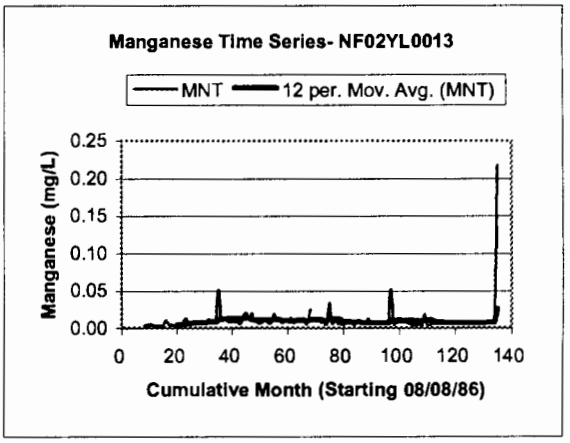

Chromium Time Series- NF02YL0013
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

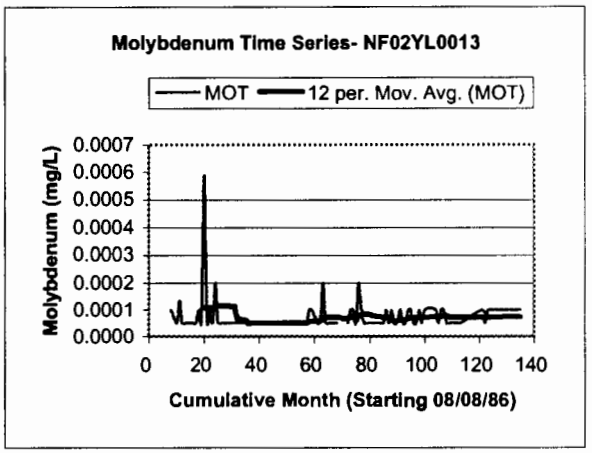

Mercury Time Series- NF02YL0013
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

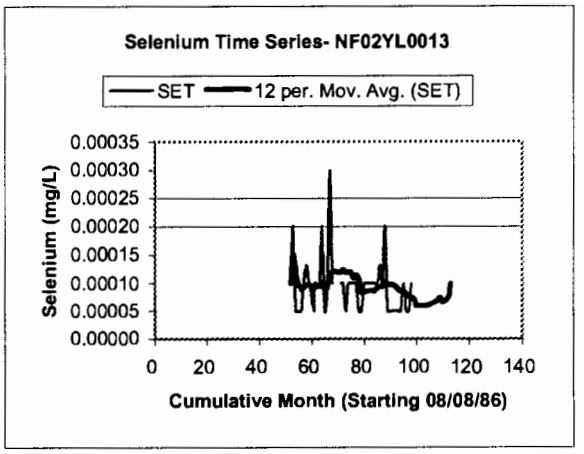

Copper Time Series- NF02YL0013
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

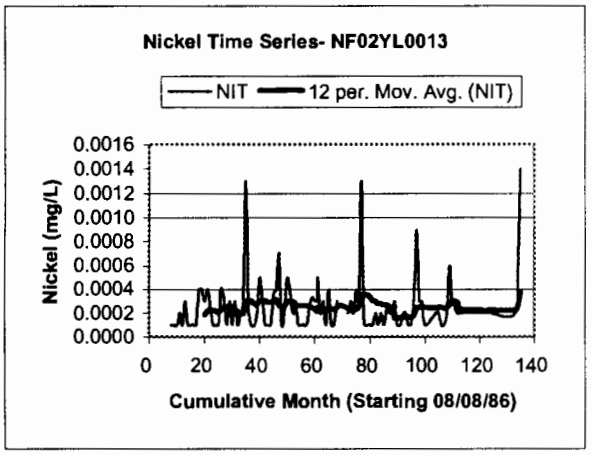

Lithium Time Series- NF02YL0013
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

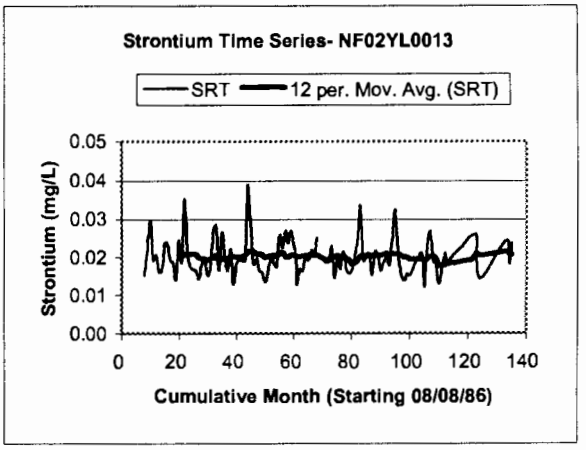

Iron Time Series- NF02YL0013
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

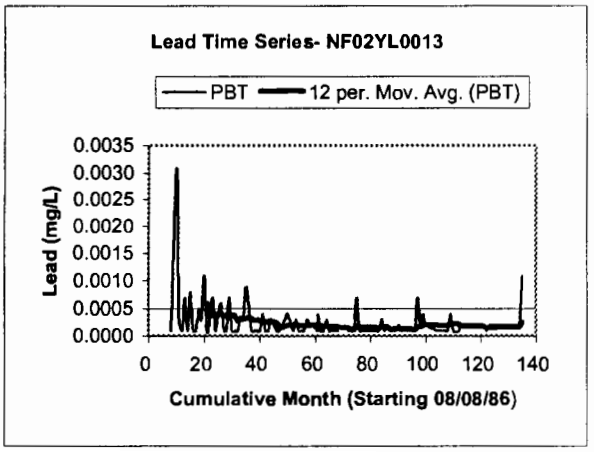

Manganese Time Series- NF02YL0013
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

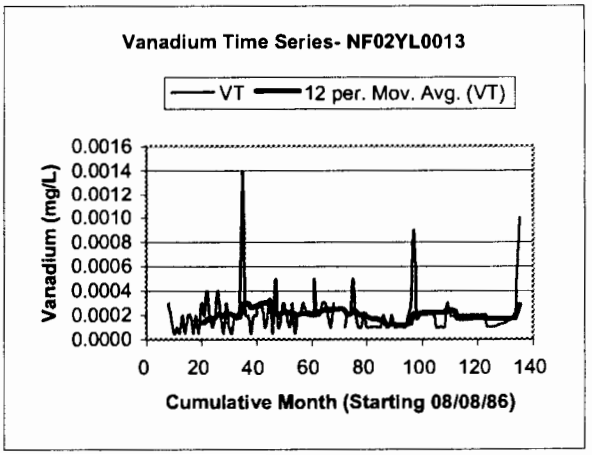

Molybdenum Time Series- NF02YL0013
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

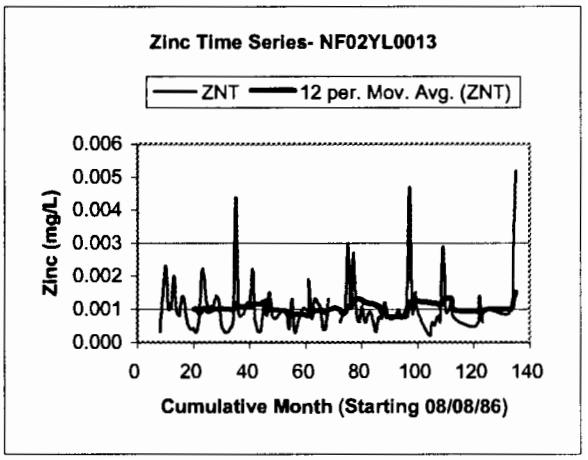

Selenium Time Series- NF02YL0013
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)


Nickel Time Series- NF02YL0013
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

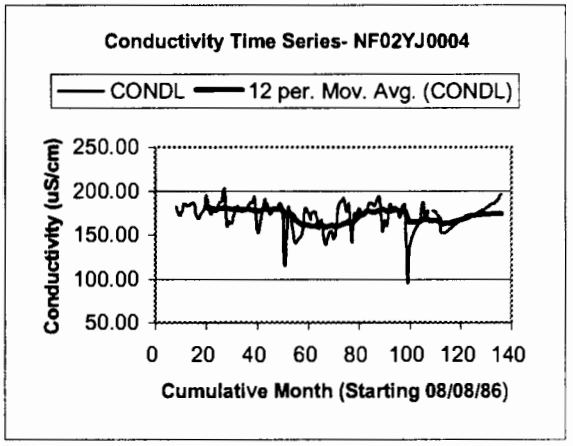

Strontium Time Series- NF02YL0013
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

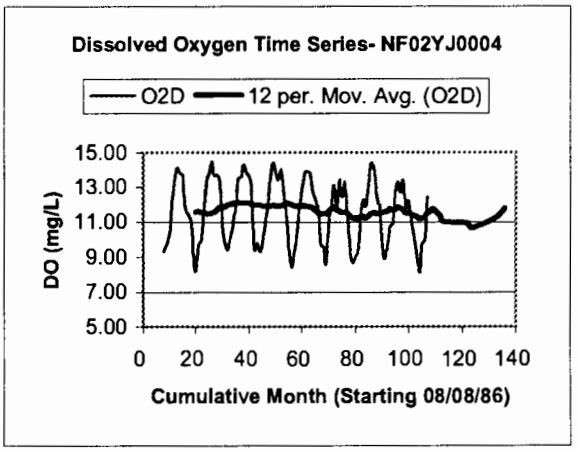

Lead Time Series- NF02YL0013
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

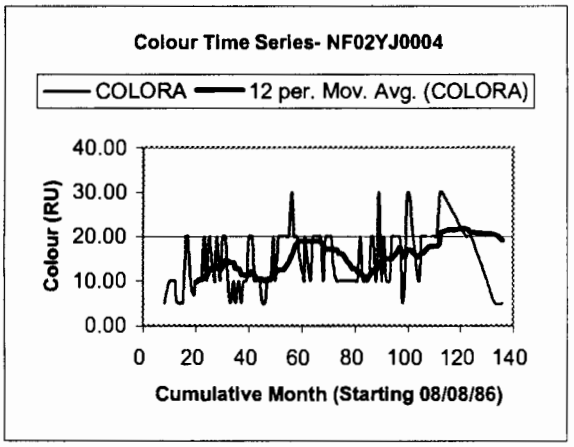

Vanadium Time Series- NF02YL0013
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

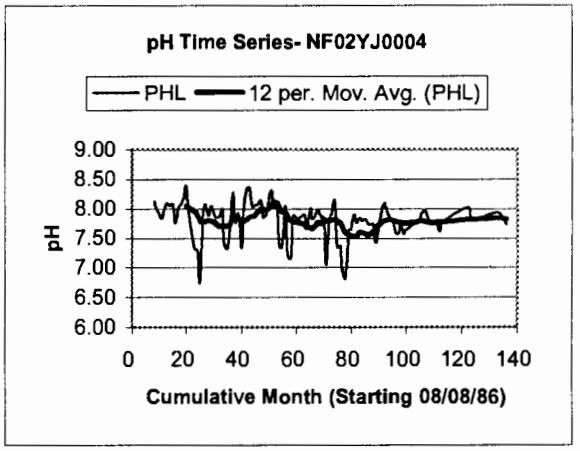

Zinc Time Series- NF02YL0013
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 08/08/86)

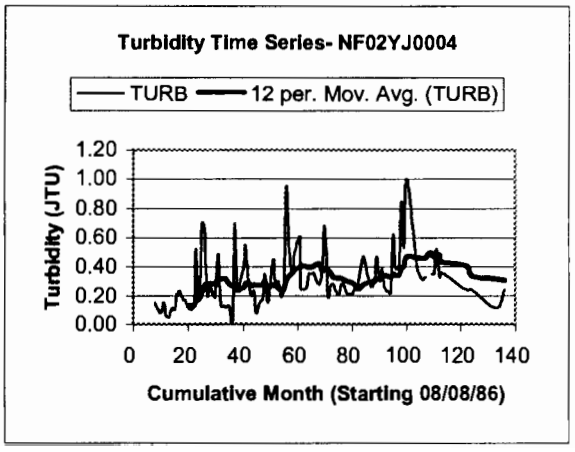
Time Series Plots of Pinchgut Brook- NF02YJ0004

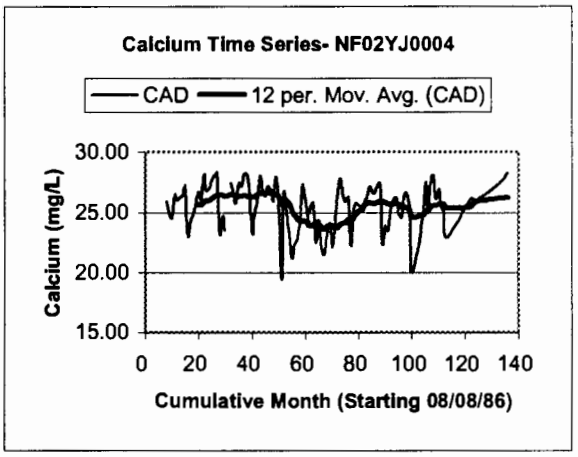


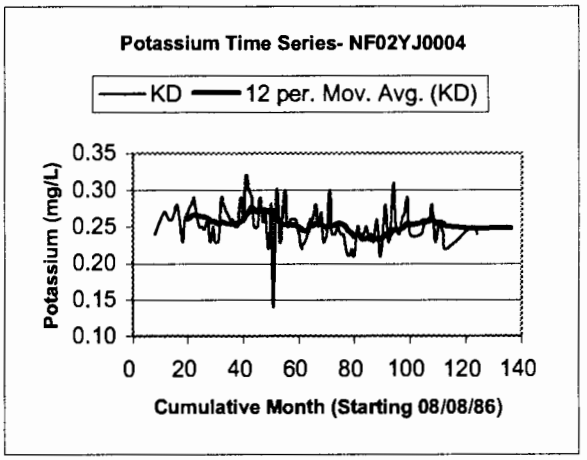


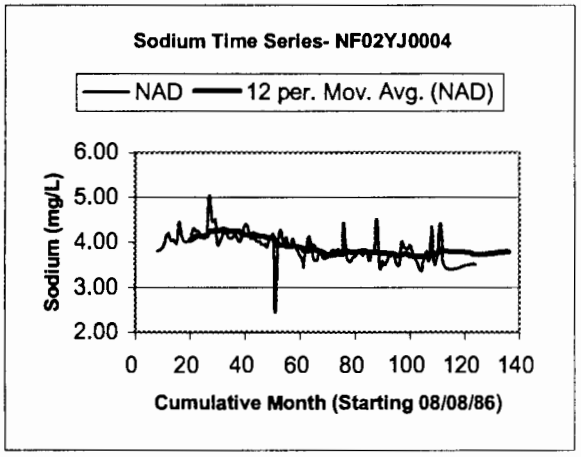


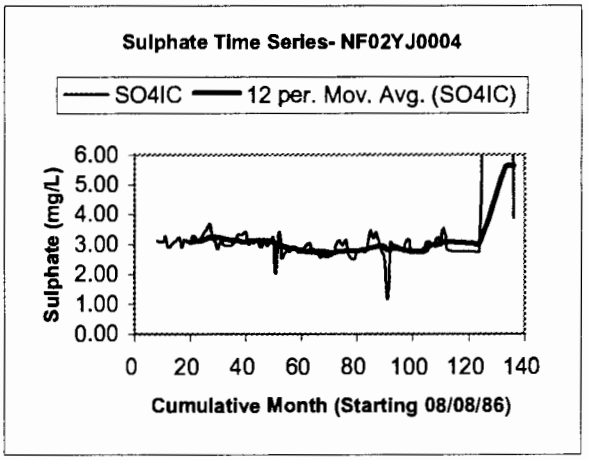


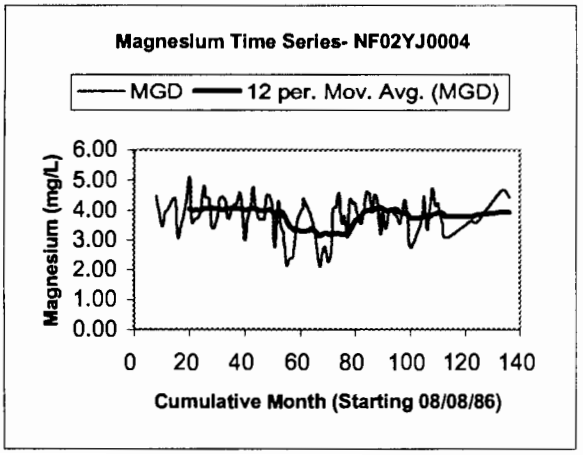


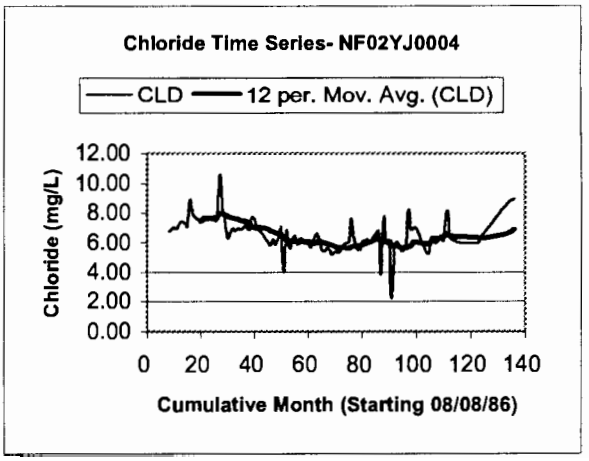

Calcium Time Series- NF02YJ0004
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
30.00
25.00
20.00
15.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

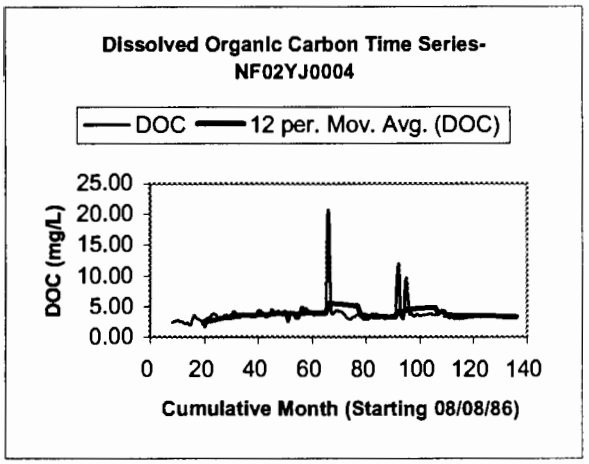

Potassium Time Series- NF02YJ0004
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

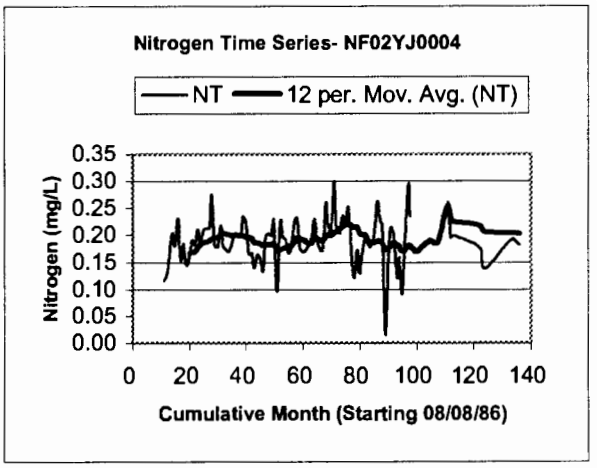

Sodium Time Series- NF02YJ0004
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
6.00
5.00
4.00
3.00
2.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

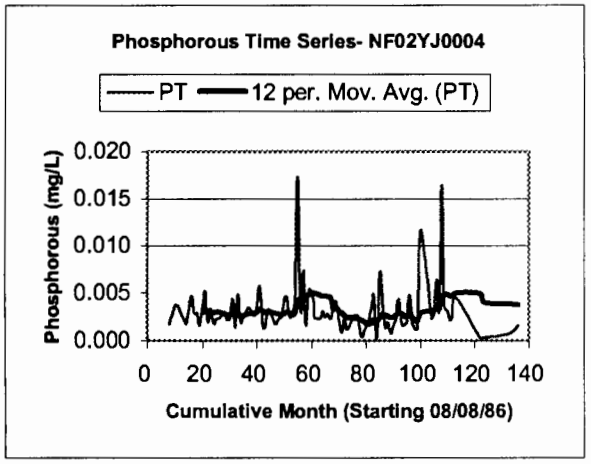

Sulphate Time Series- NF02YJ0004
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

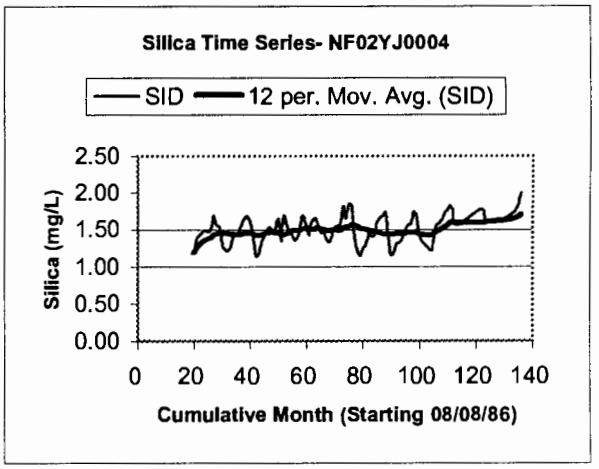

Magnesium Time Series- NF02YJ0004
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

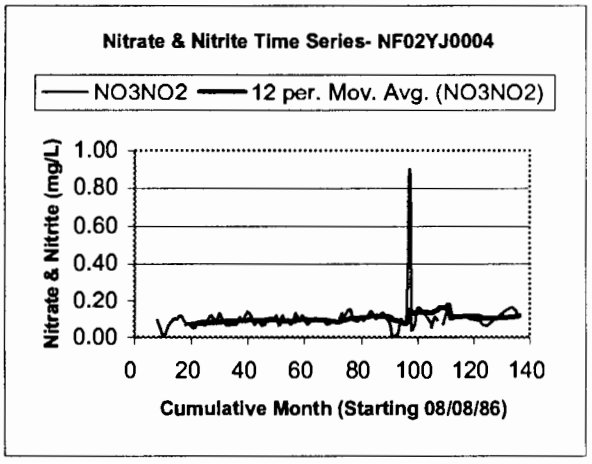

Chloride Time Series- NF02YJ0004
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

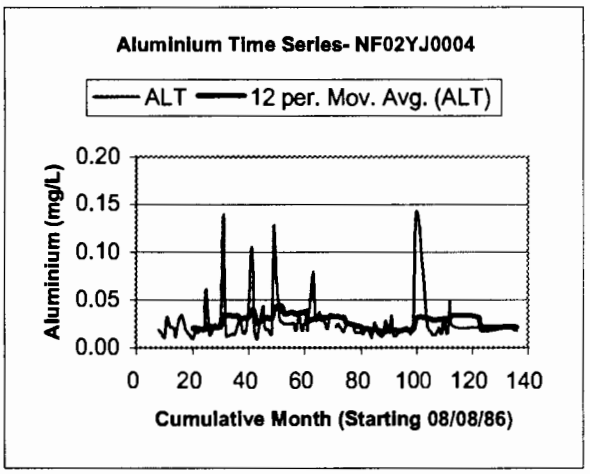

Dissolved Organic Carbon Time Series- NF02YJ0004
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

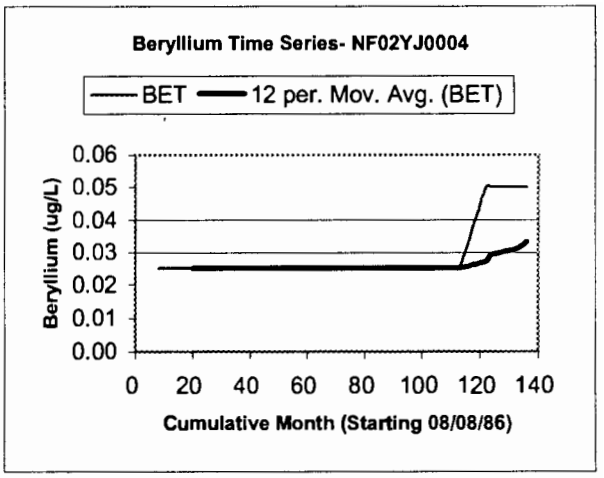

Nitrogen Time Series- NF02YJ0004
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

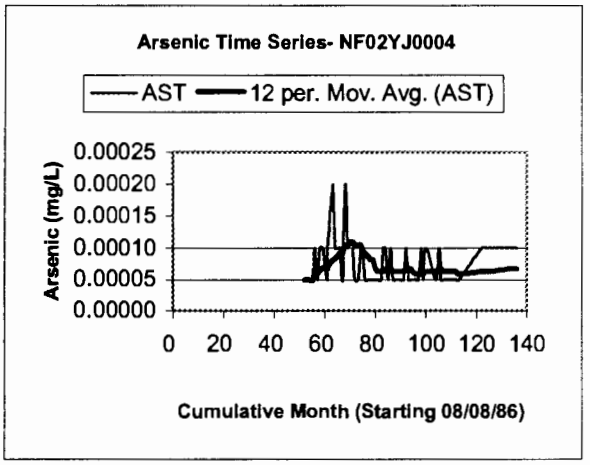

Phosphorous Time Series- NF02YJ0004
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

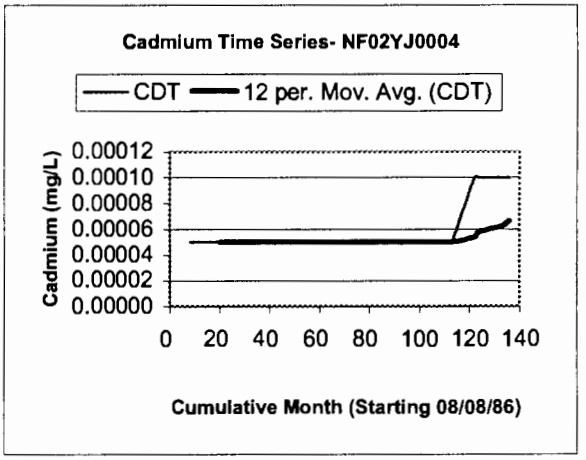

Silica Time Series- NF02YJ0004
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

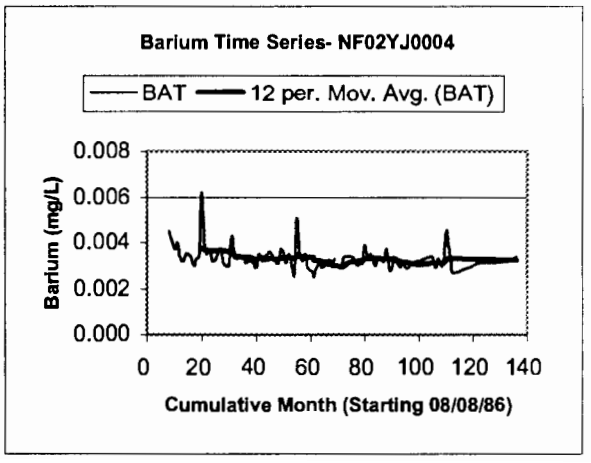

Nitrate & Nitrite Time Series- NF02YJ0004
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

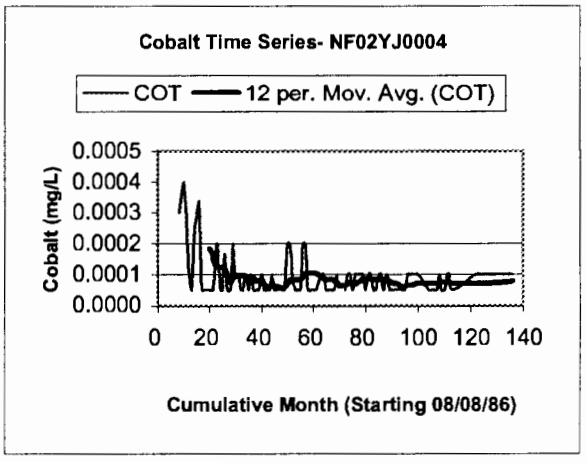

Aluminium Time Series- NF02YJ0004
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

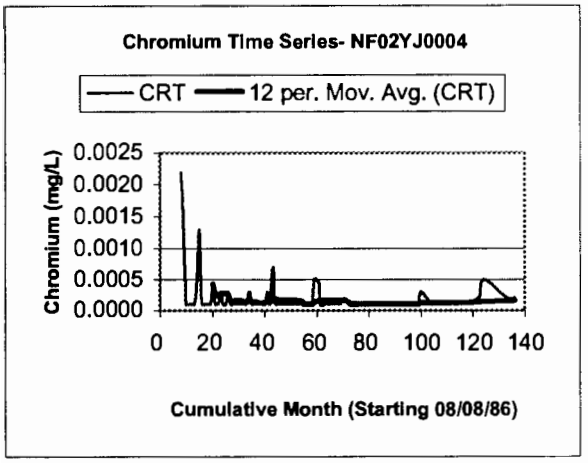

Beryllium Time Series- NF02YJ0004
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

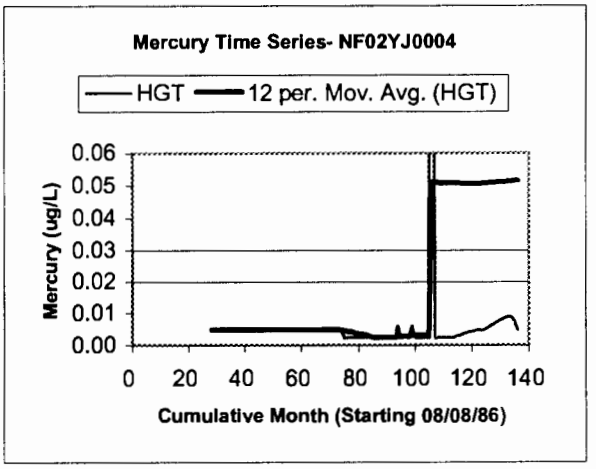

Arsenic Time Series- NF02YJ0004
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

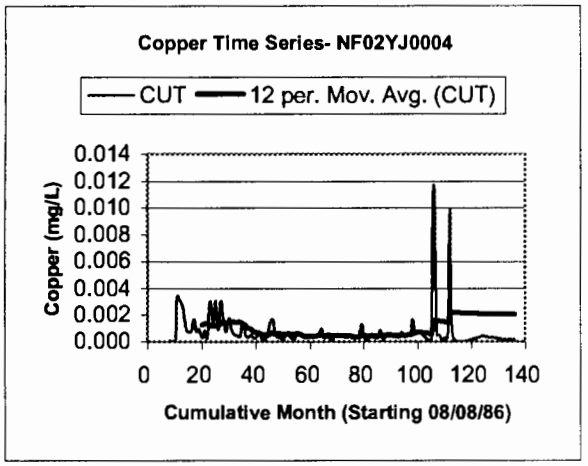

Cadmium Time Series- NF02YJ0004
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

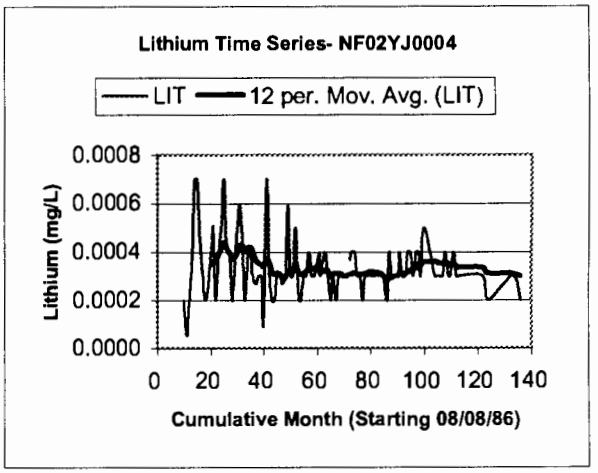

Barium Time Series- NF02YJ0004
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

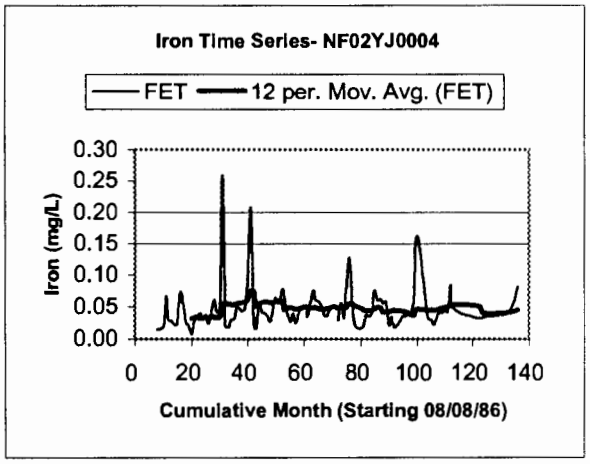

Cobalt Time Series- NF02YJ0004
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

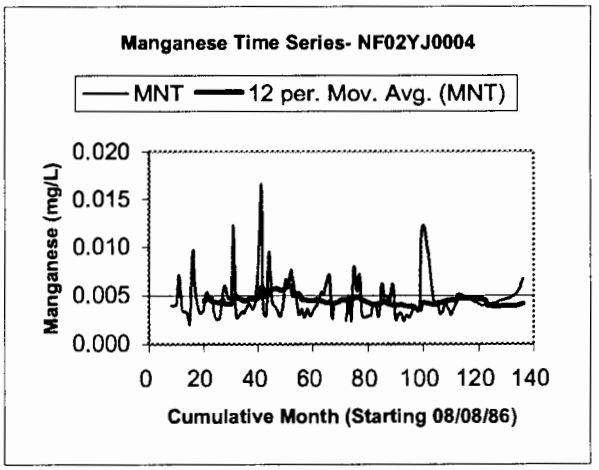

Chromium Time Series- NF02YJ0004
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

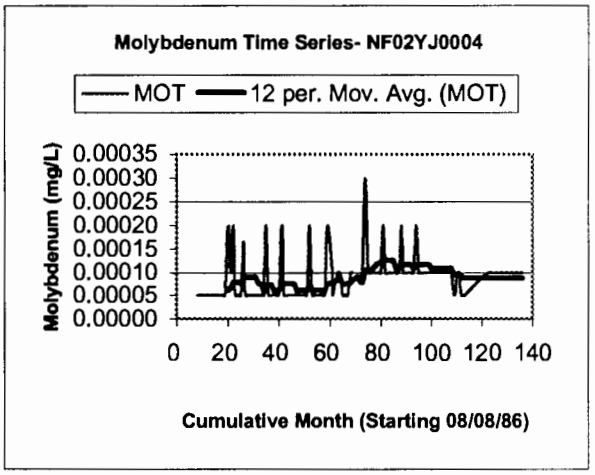

Mercury Time Series- NF02YJ0004
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

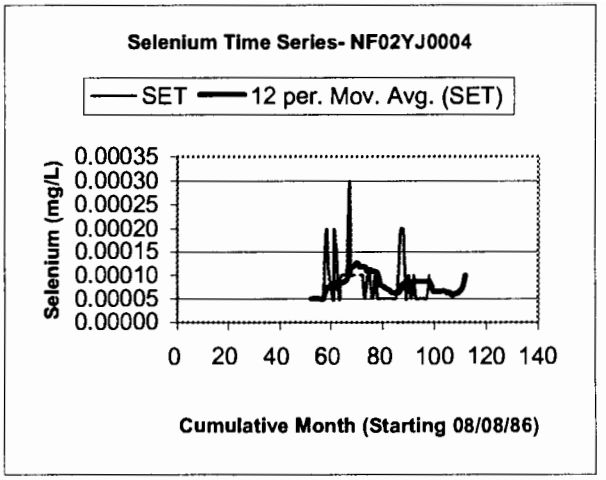

Copper Time Series- NF02YJ0004
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

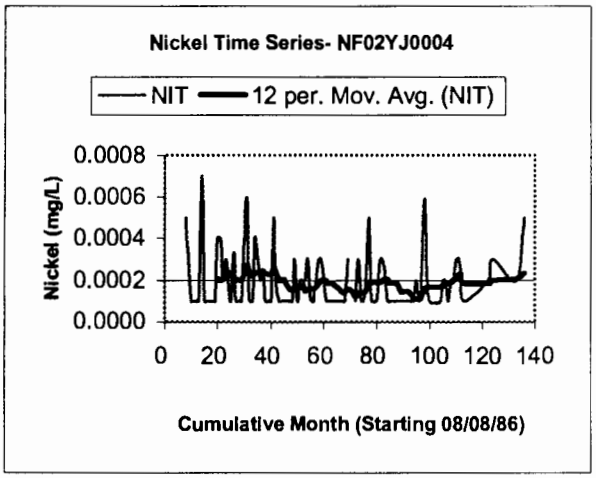

Lithium Time Series- NF02YJ0004
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

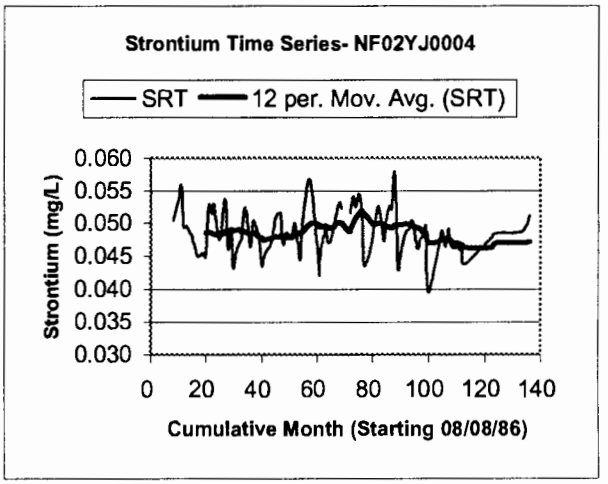

Iron Time Series- NF02YJ0004
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

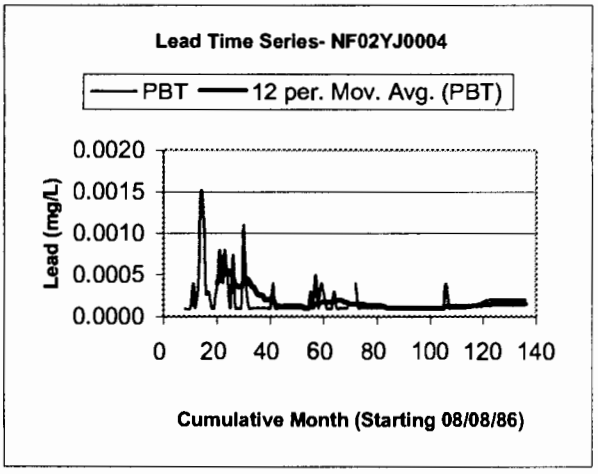

Manganese Time Series- NF02YJ0004
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

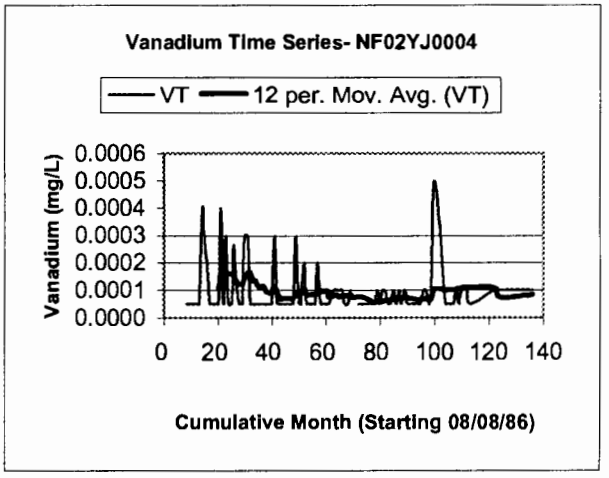

Molybdenum Time Series- NF02YJ0004
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

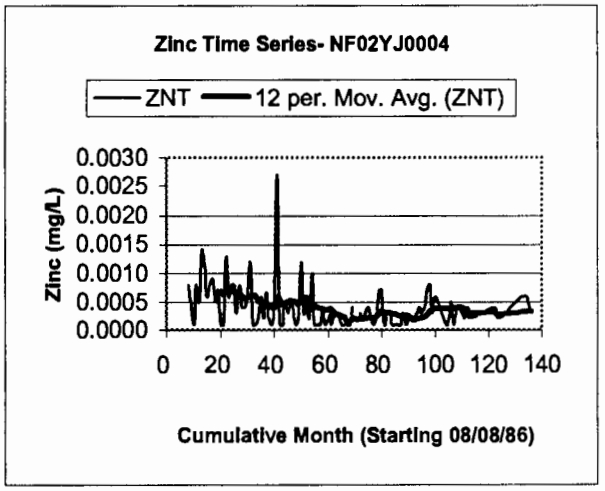

Selenium Time Series- NF02YJ0004
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)


Nickel Time Series- NF02YJ0004
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

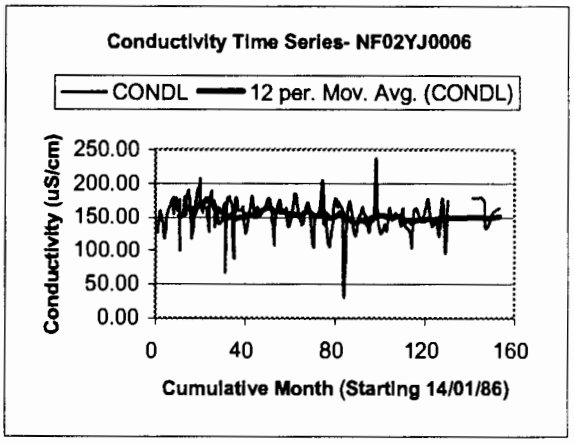

Strontium Time Series- NF02YJ0004
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.060
0.055
0.050
0.045
0.040
0.035
0.030
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

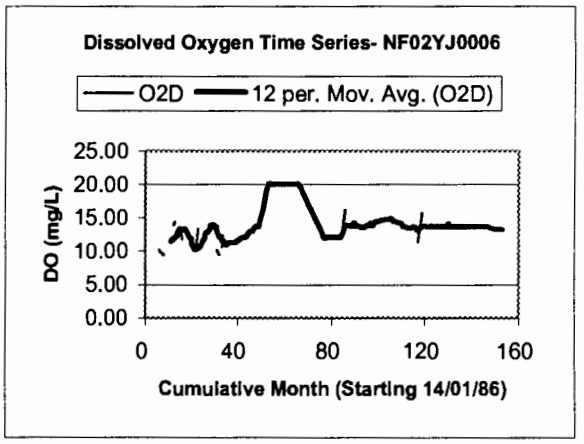

Lead Time Series- NF02YJ0004
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

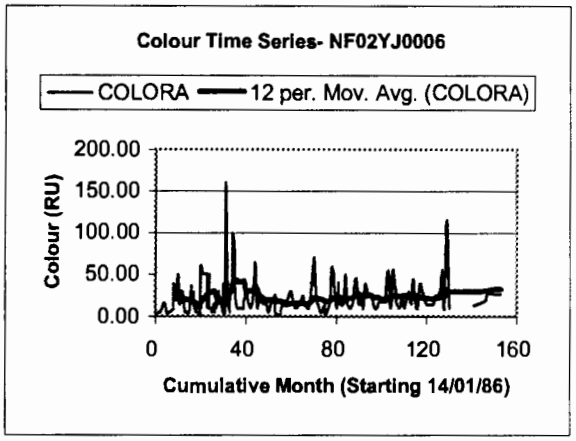

Vanadium Time Series- NF02YJ0004
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

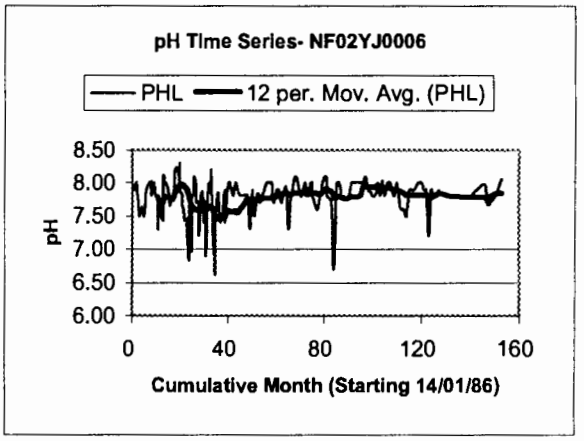

Zinc Time Series- NF02YJ0004
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 08/08/86)

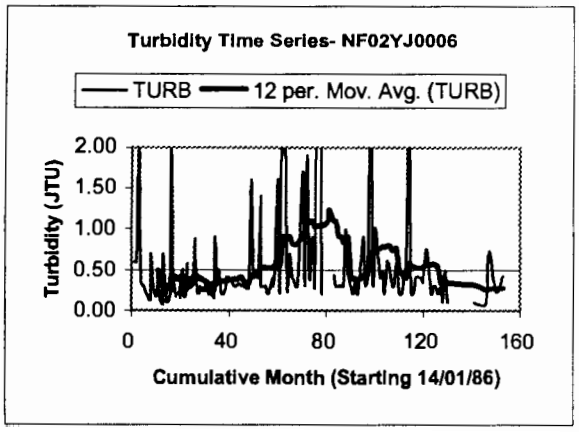
Time Series Plots of Harry's River- NF02YJ0006

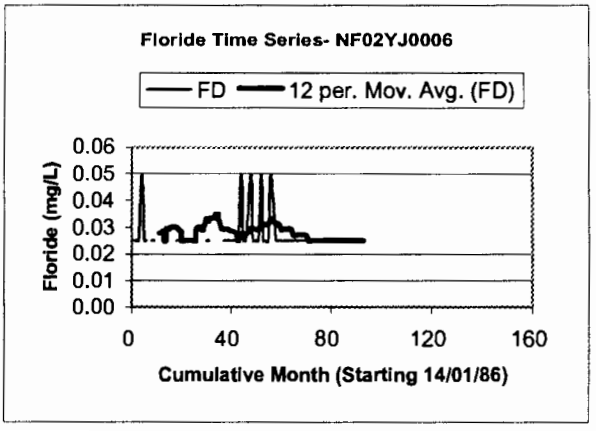


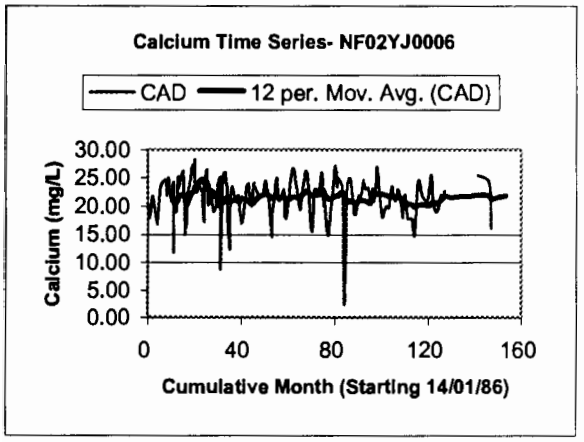


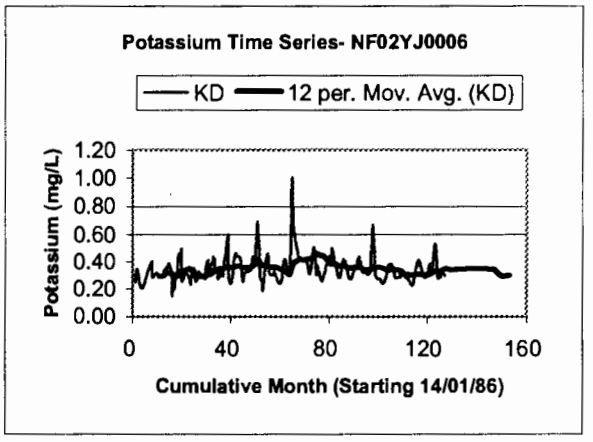


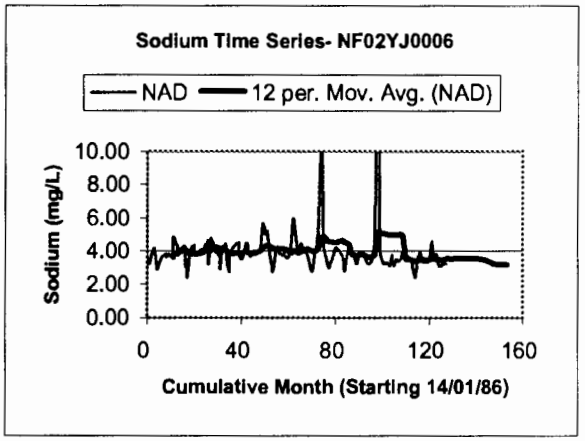


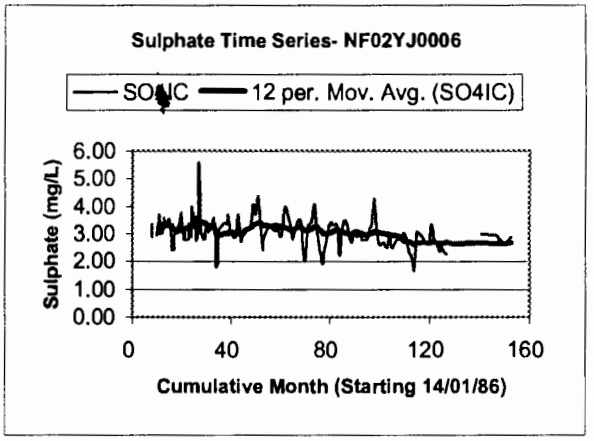


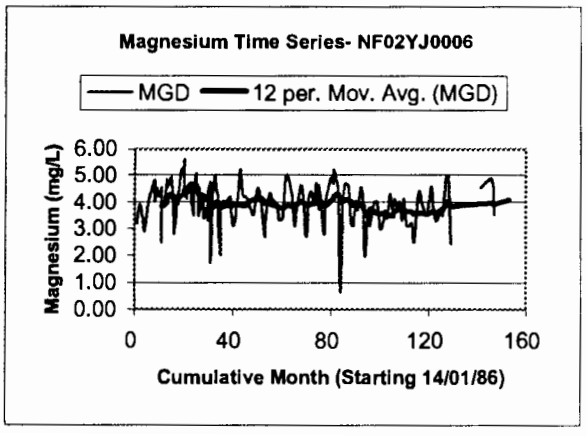


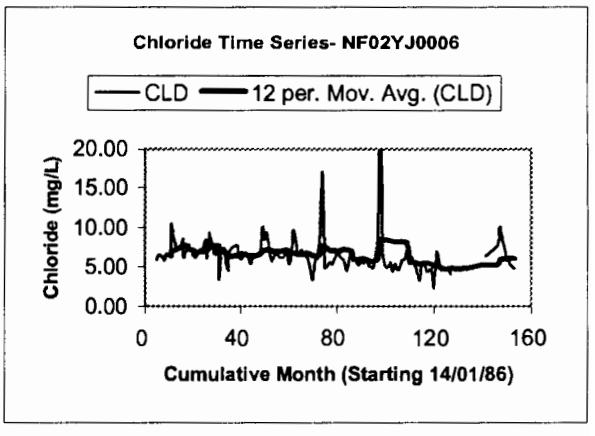

Calcium Time Series- NF02YJ0006
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

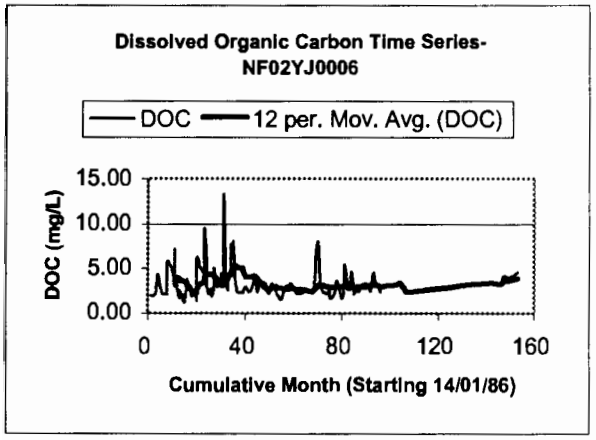

Potassium Time Series- NF02YJ0006
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

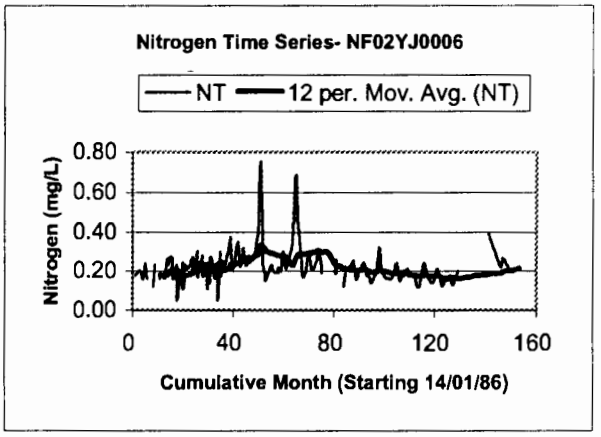

Sodium Time Series- NF02YJ0006
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

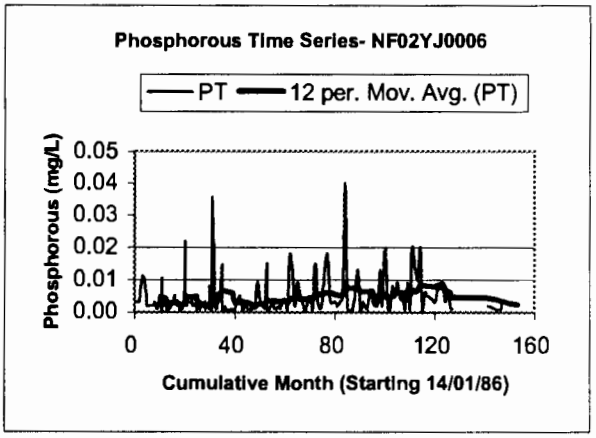

Sulphate Time Series- NF02YJ0006
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

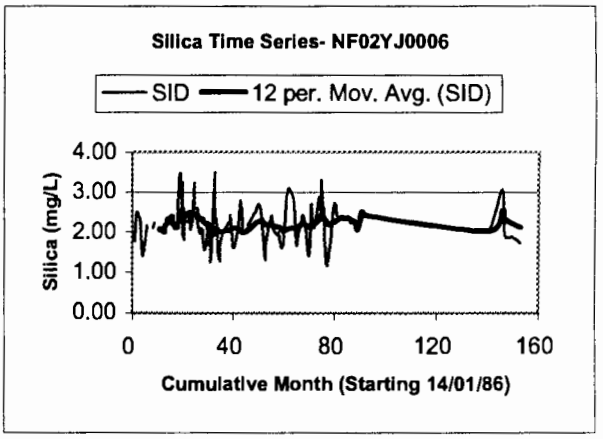

Magnesium Time Series- NF02YJ0006
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

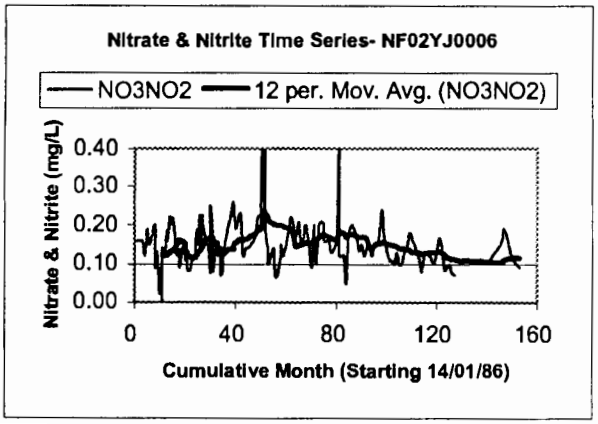

Chloride Time Series- NF02YJ0006
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
20.00
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

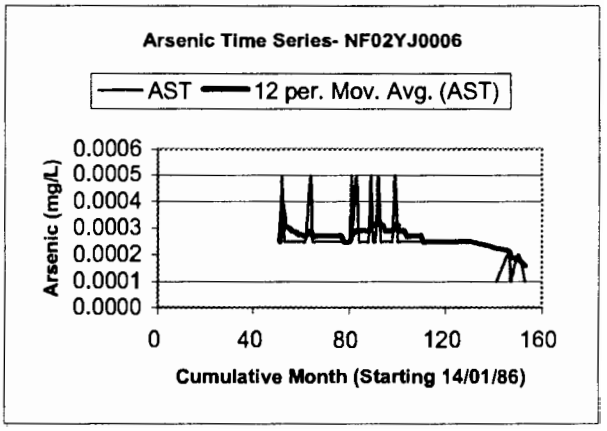

Dissolved Organic Carbon Time Series- NF02YJ0006
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)


Nitrogen Time Series- NF02YJ0006
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

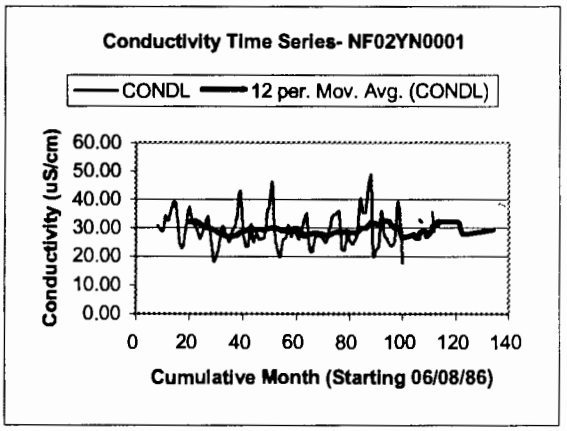

Phosphorous Time Series- NF02YJ0006
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.05
0.04
0.03
0.02
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

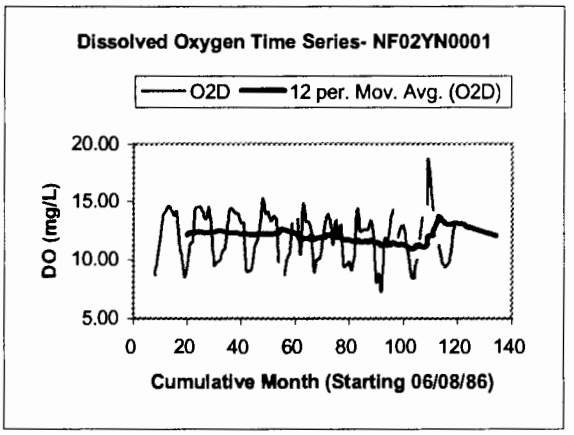

Silica Time Series- NF02YJ0006
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

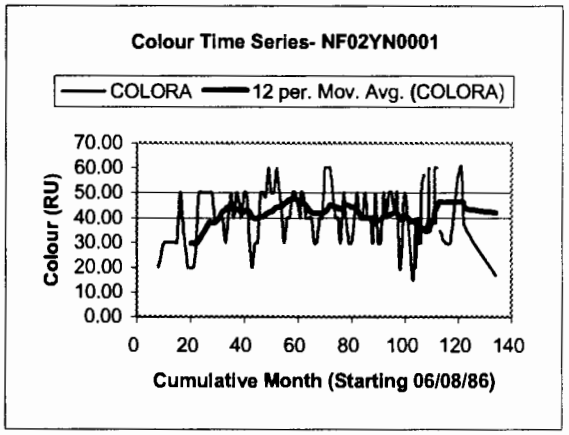

Nitrate & Nitrite Time Series- NF02YJ0006
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

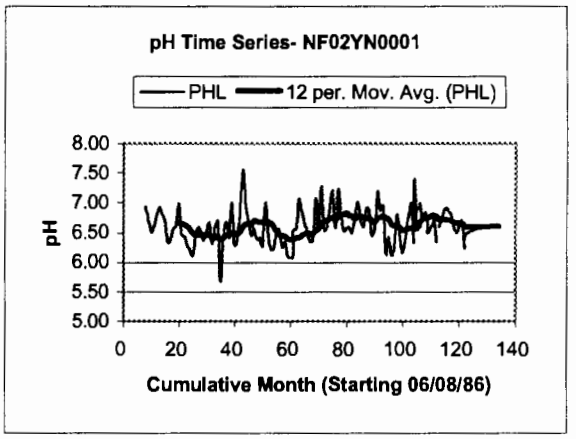

Arsenic Time Series- NF02YJ0006
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 14/01/86)

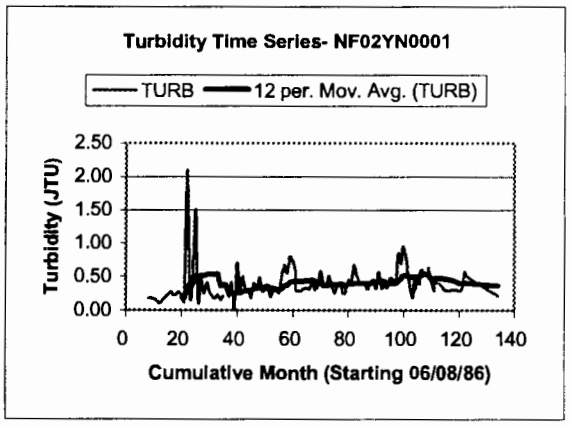
Time Series Plots of Lloyd's River- NF02YN0001

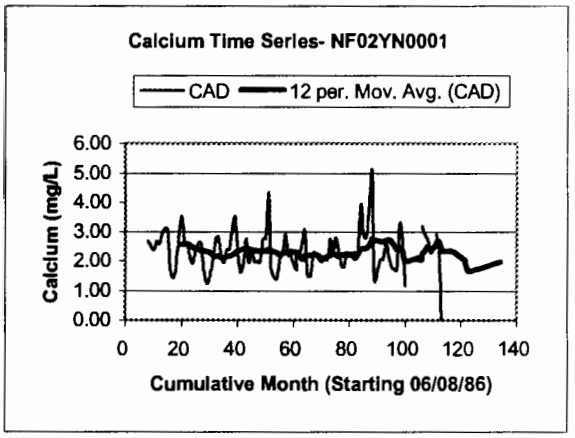


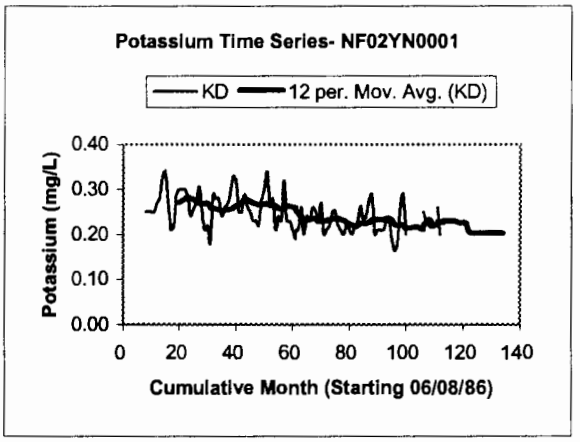


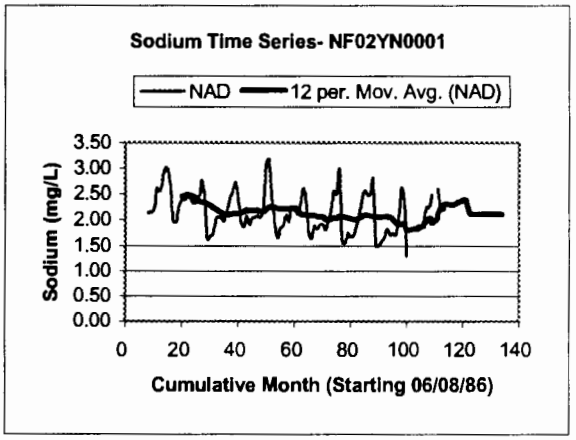


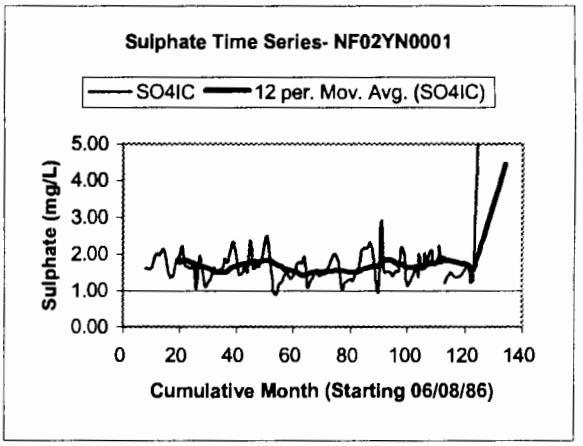


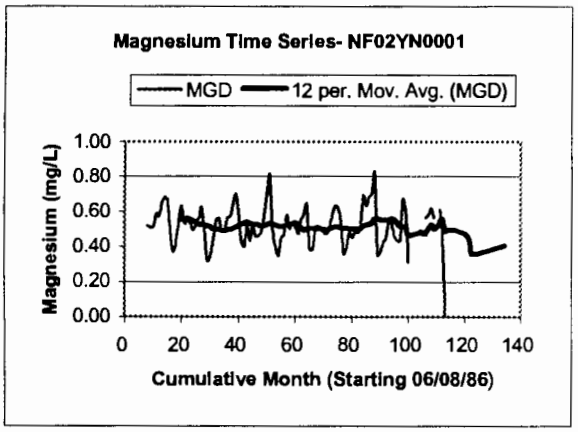


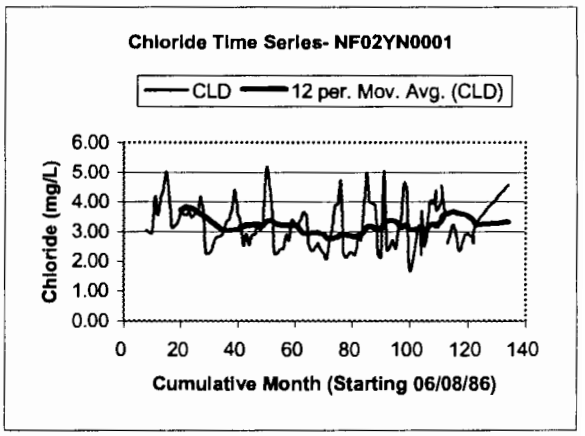

Calcium Time Series- NF02YN0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

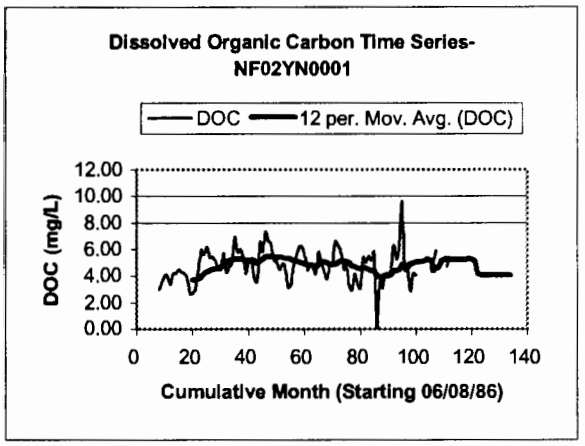

Potassium Time Series- NF02YN0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

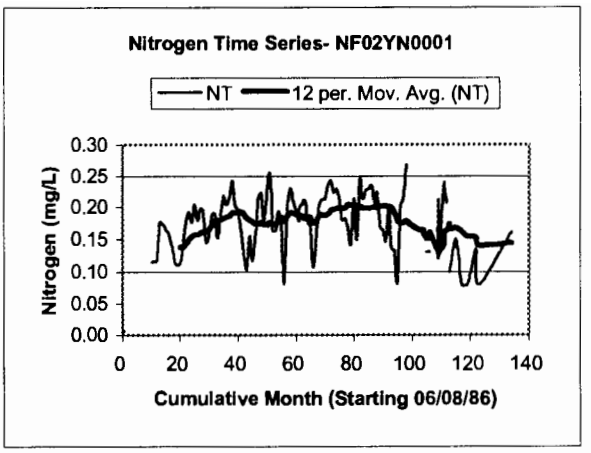

Sodium Time Series- NF02YN0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

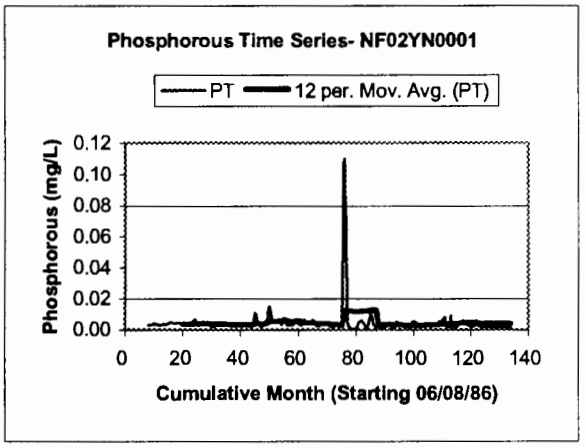

Sulphate Time Series- NF02YN0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

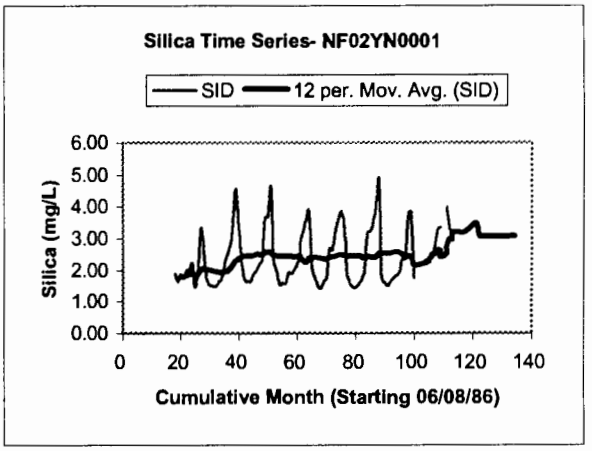

Magnesium Time Series- NF02YN0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

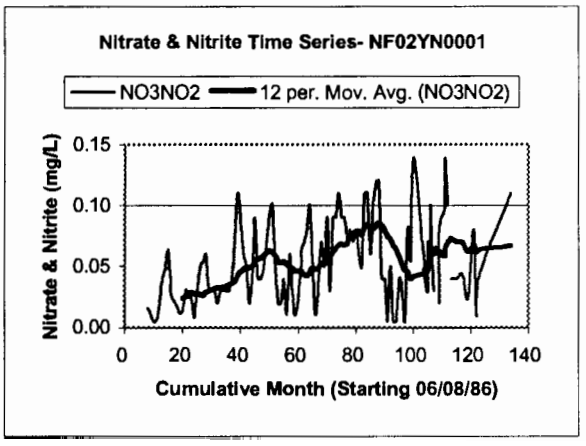

Chloride Time Series- NF02YN0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

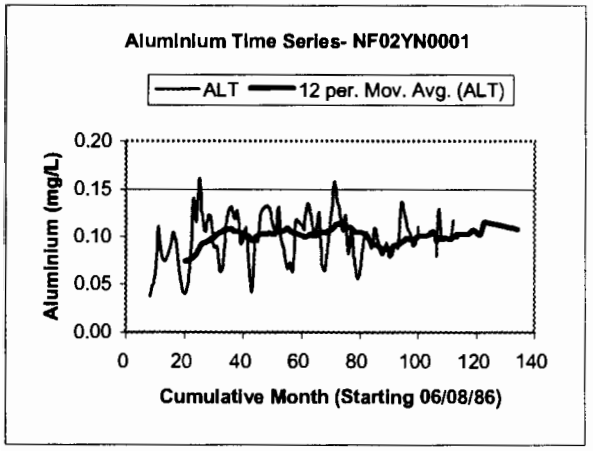

Dissolved Organic Carbon Time Series- NF02YN0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

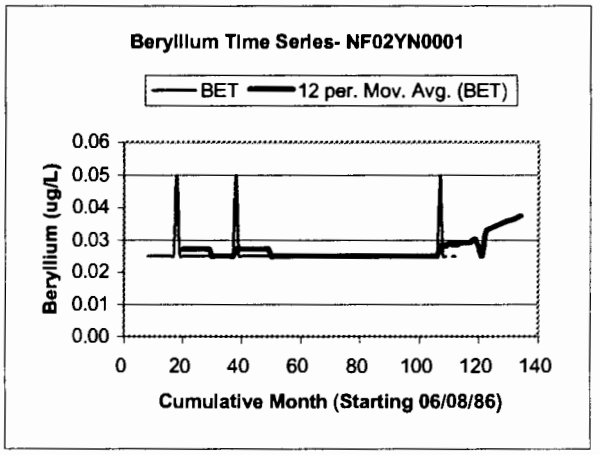

Nitrogen Time Series- NF02YN0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

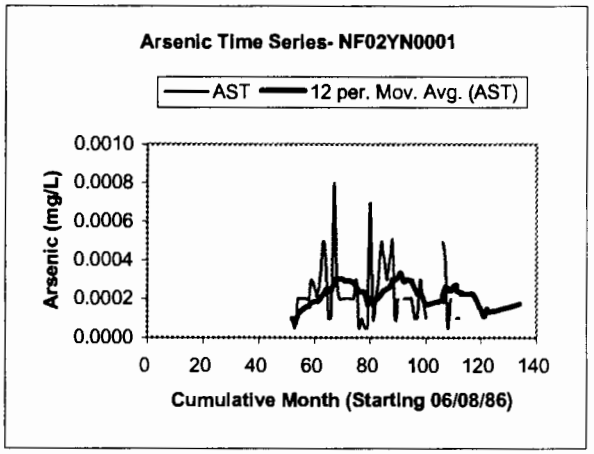

Phosphorous Time Series- NF02YN0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

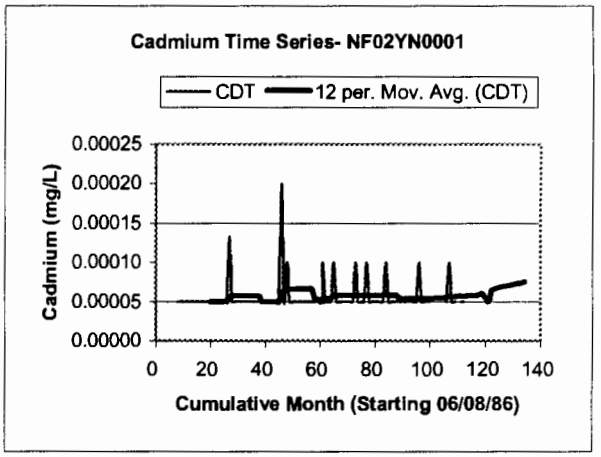

Silica Time Series- NF02YN0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

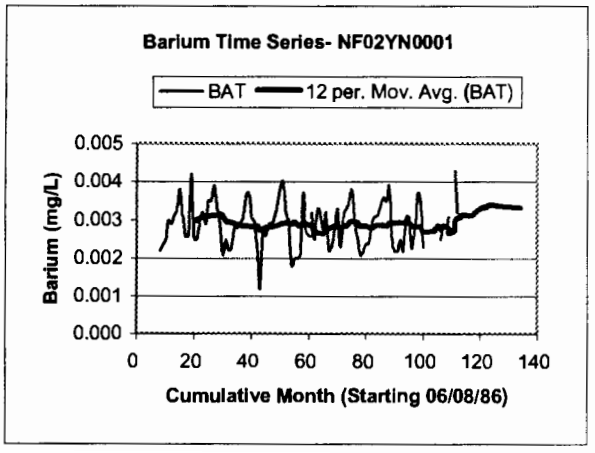

Nitrate & Nitrite Time Series- NF02YN0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

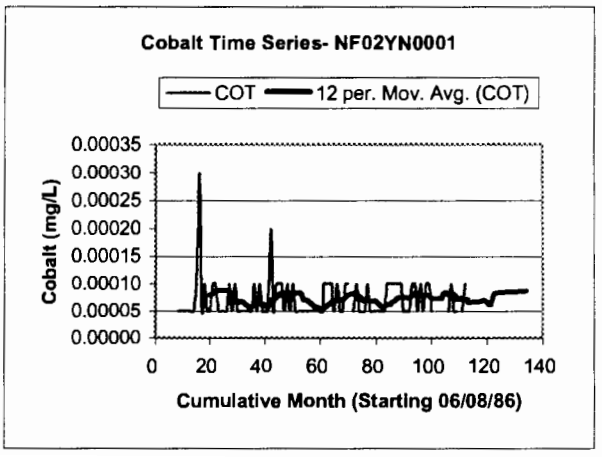

Aluminium Time Series- NF02YN0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

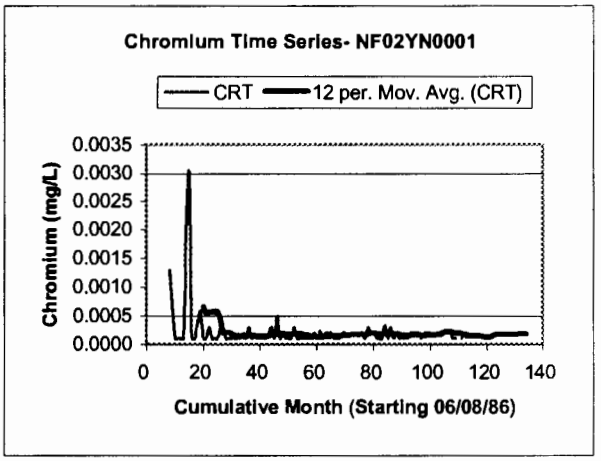

Beryllium Time Series- NF02YN0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

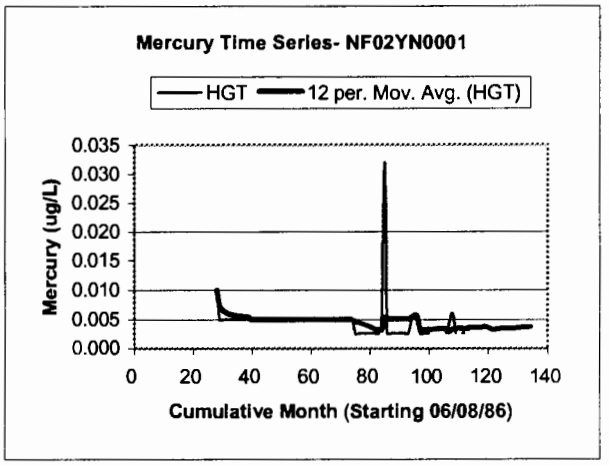

Arsenic Time Series- NF02YN0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

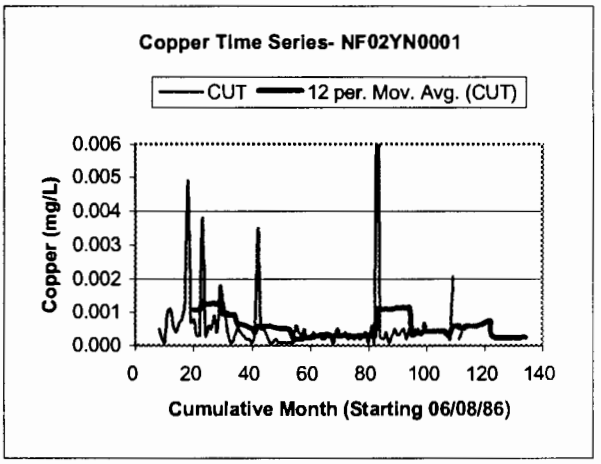

Cadmium Time Series- NF02YN0001
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

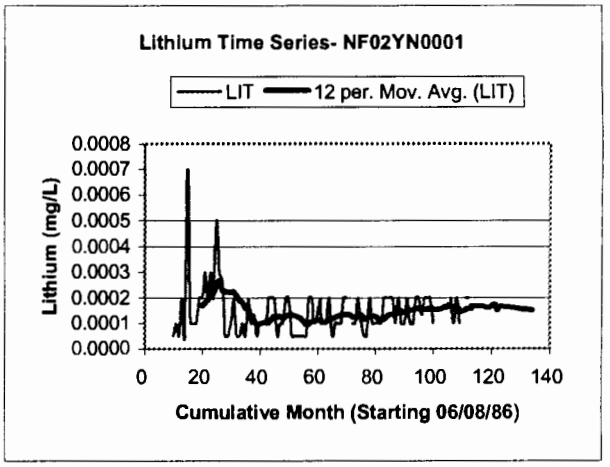

Barium Time Series- NF02YN0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

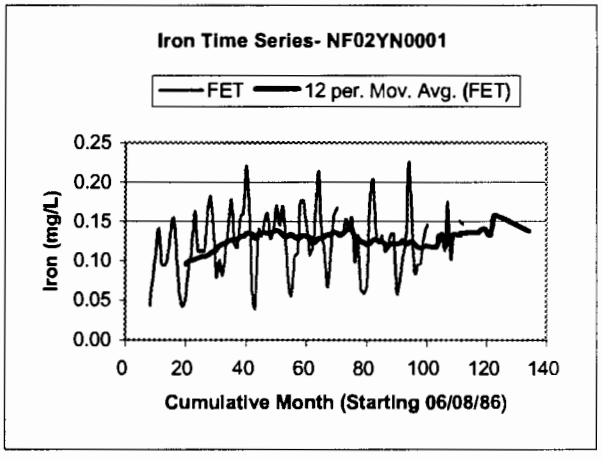

Cobalt Time Series- NF02YN0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

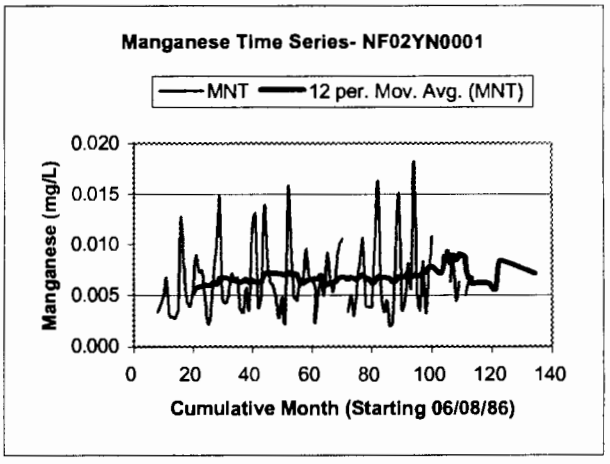

Chromium Time Series- NF02YN0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

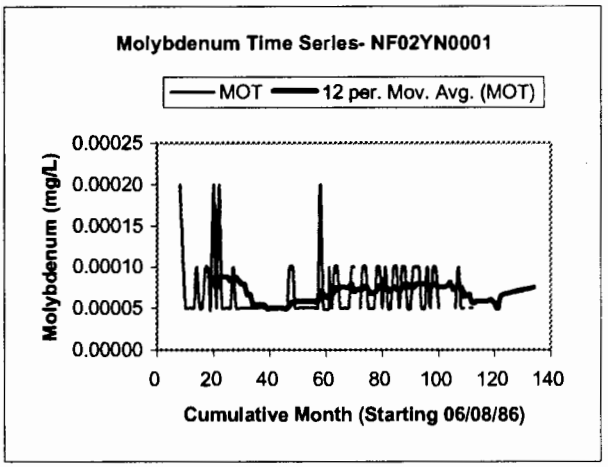

Mercury Time Series- NF02YN0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

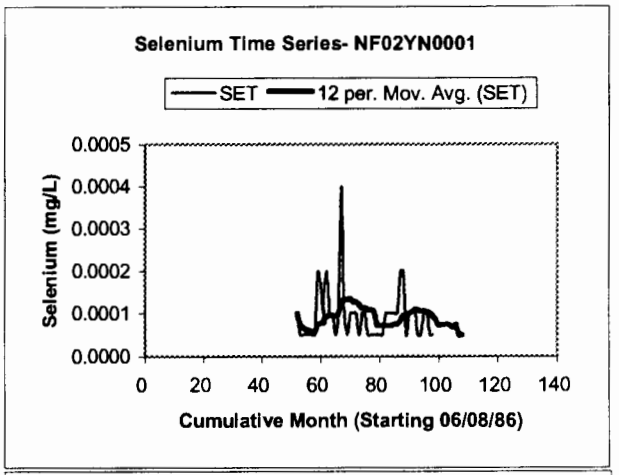

Copper Time Series- NF02YN0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

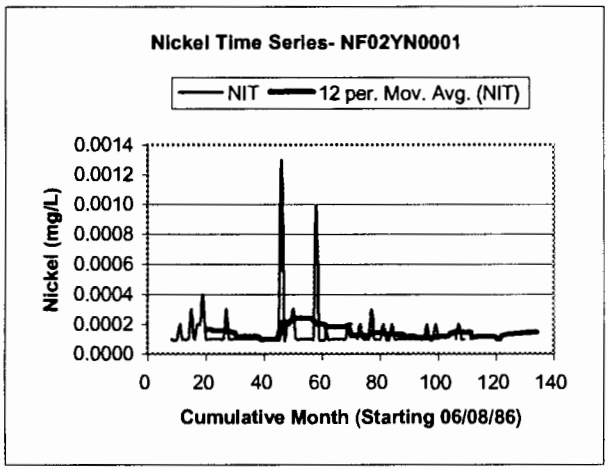

Lithium Time Series- NF02YN0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

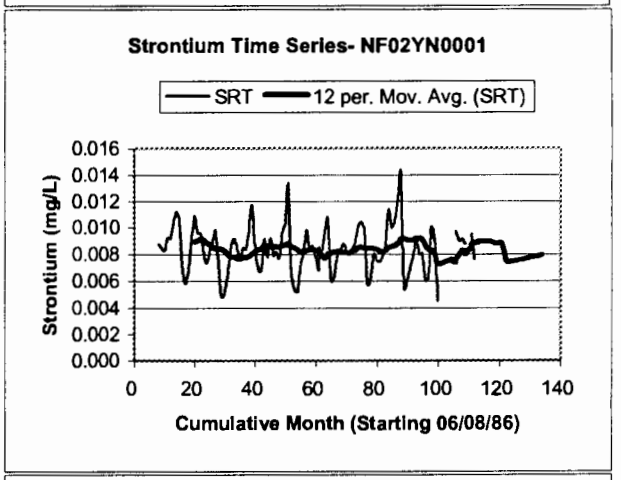

Iron Time Series- NF02YN0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

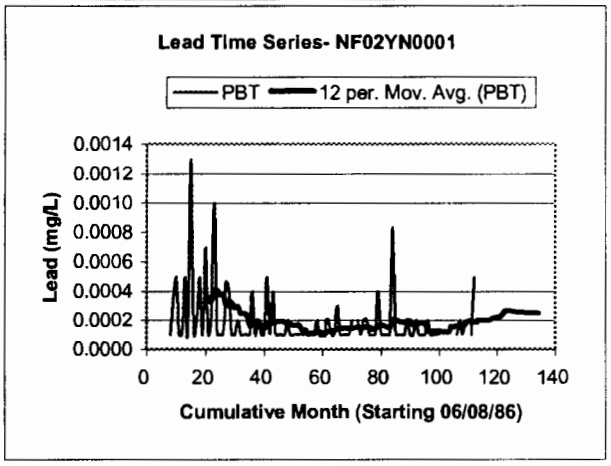

Manganese Time Series- NF02YN0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

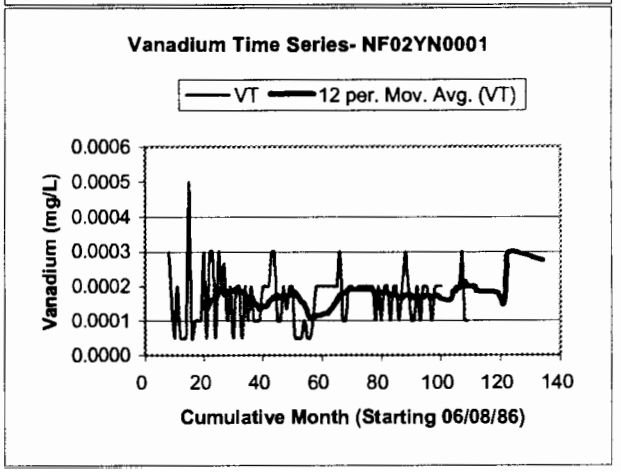

Molybdenum Time Series- NF02YN0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

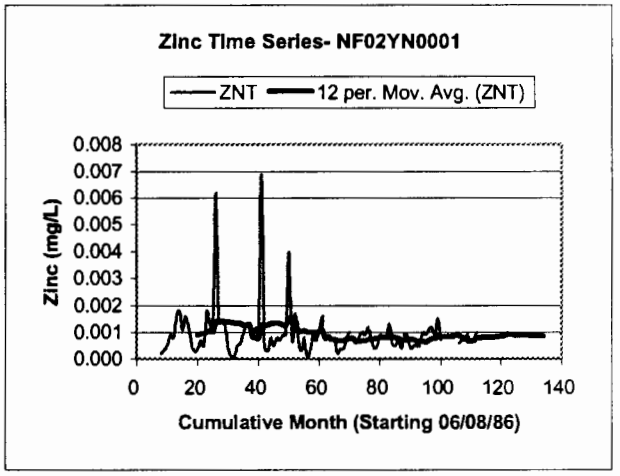

Selenium Time Series- NF02YN0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)


Nickel Time Series- NF02YN0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

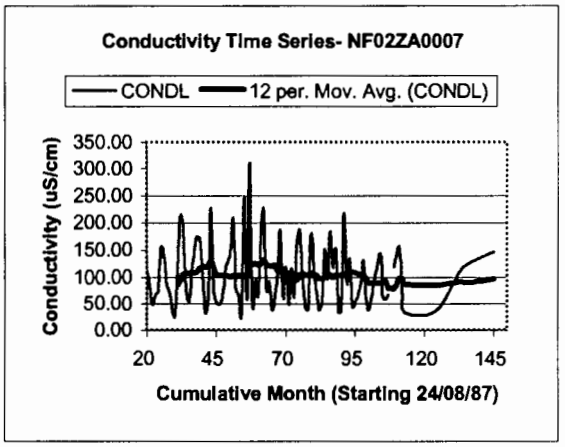

Strontium Time Series- NF02YN0001
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

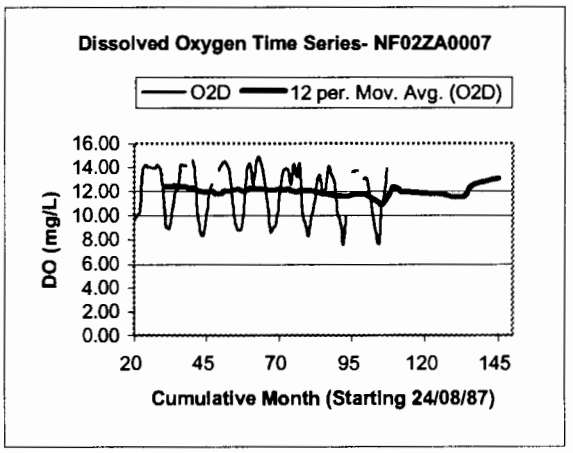

Lead Time Series- NF02YN0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

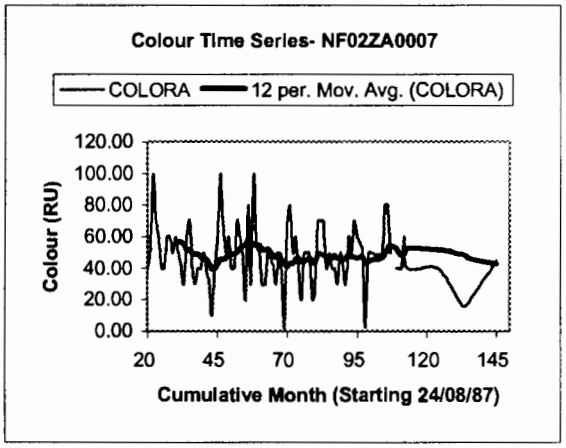

Vanadium Time Series- NF02YN0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 06/08/86)

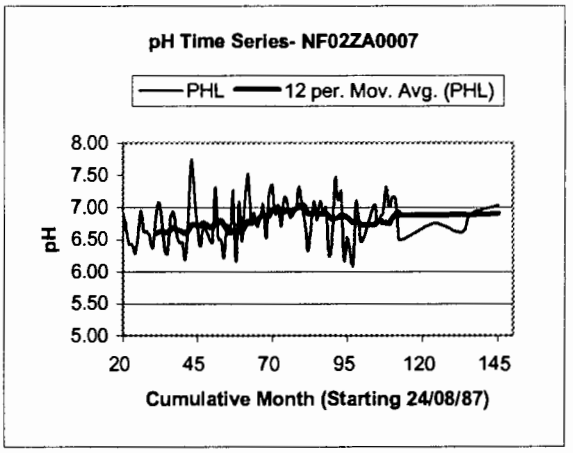

Zinc Time Series- NF02YN0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 06/08/86)

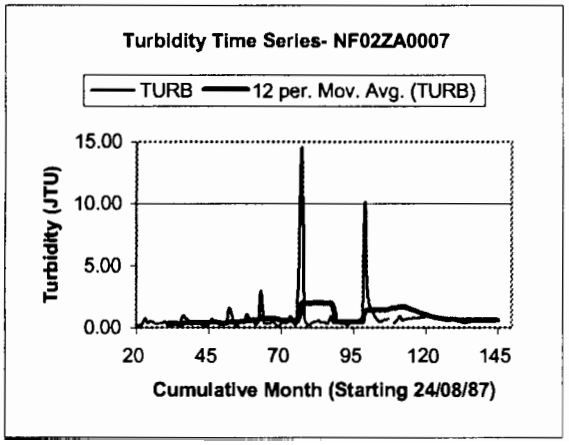
Time Series Plots of Crabbe's River- NF02ZA0007

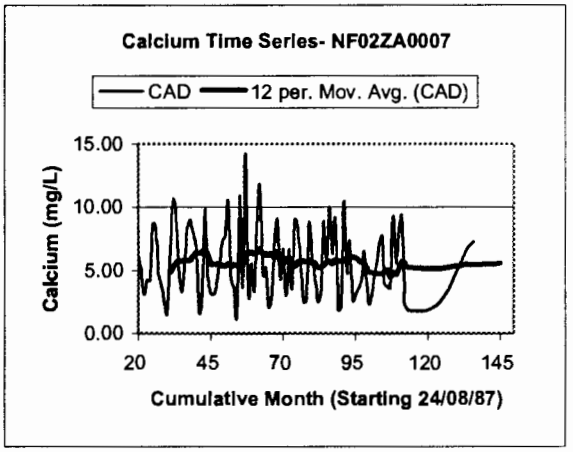


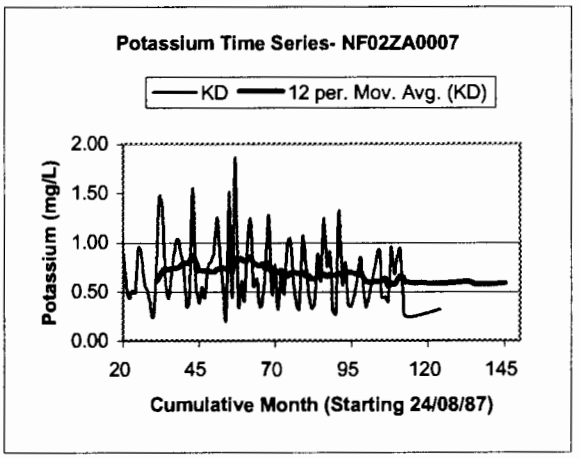


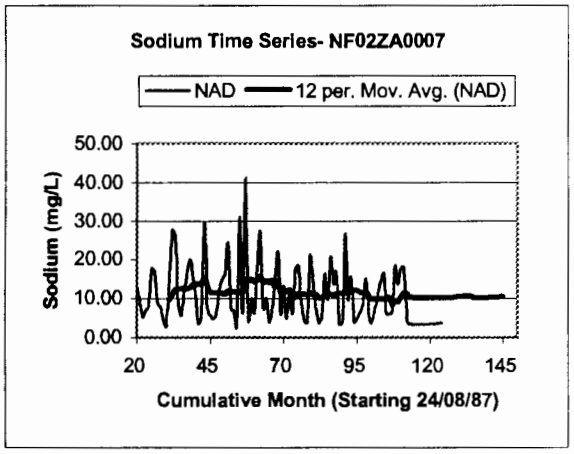


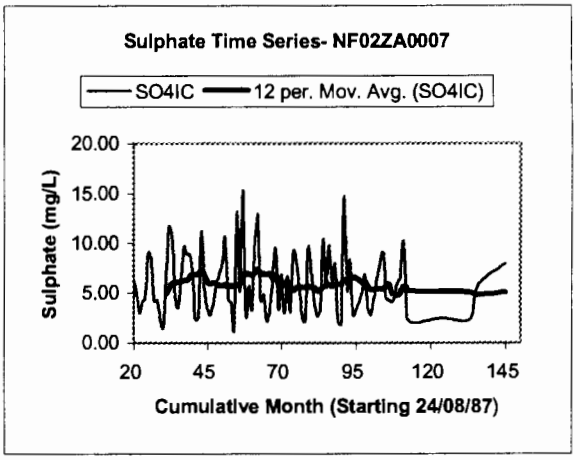


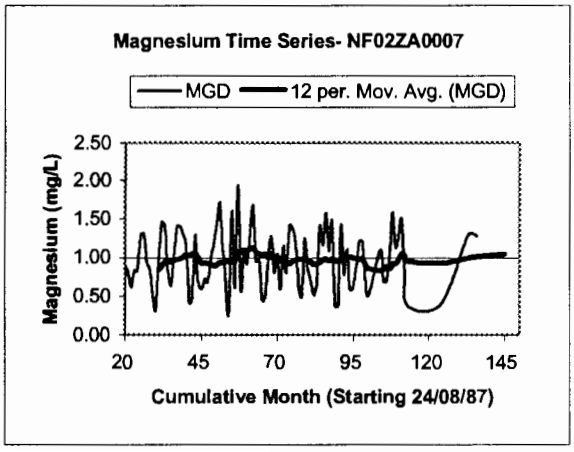


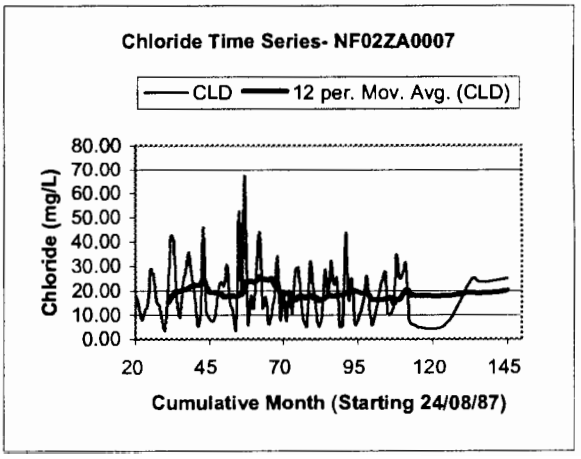

Calcium Time Series- NF02ZA0007
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
15.00
10.00
5.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

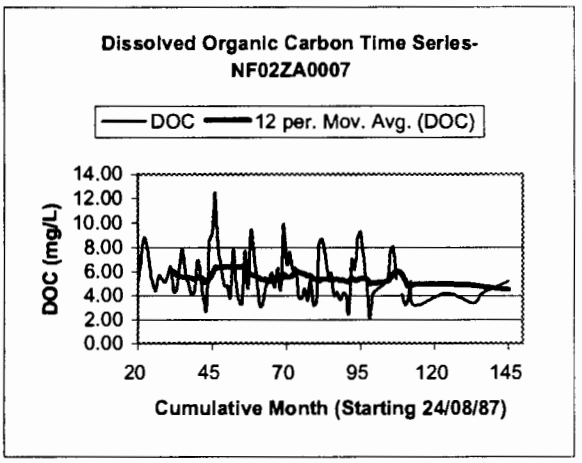

Potassium Time Series- NF02ZA0007
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
2.00
1.50
1.00
0.50
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

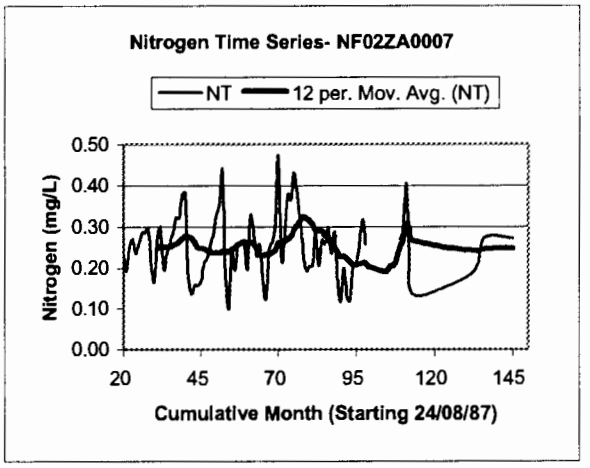

Sodium Time Series- NF02ZA0007
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
50.00
40.00
30.00
20.00
10.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

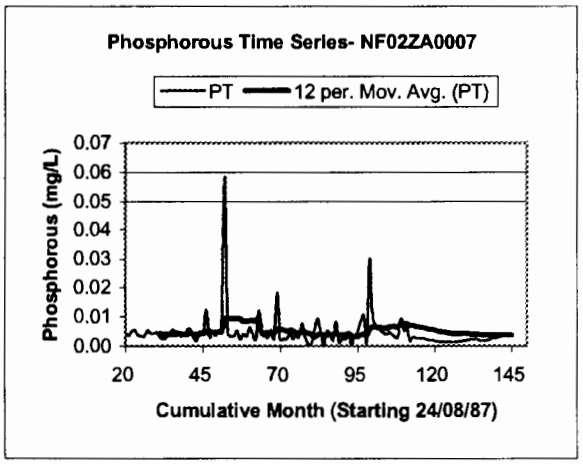

Sulphate Time Series- NF02ZA0007
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
20.00
15.00
10.00
5.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

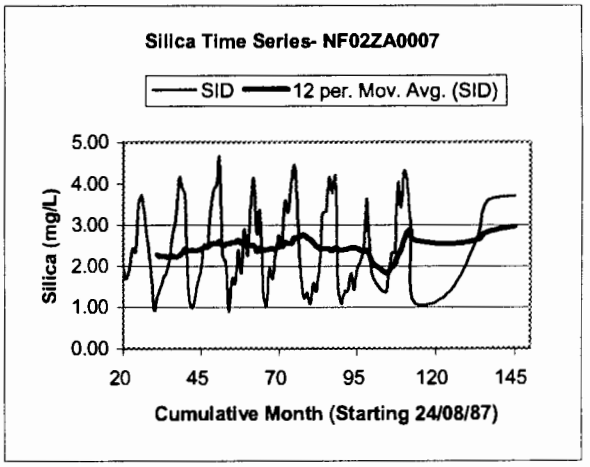

Magnesium Time Series- NF02ZA0007
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

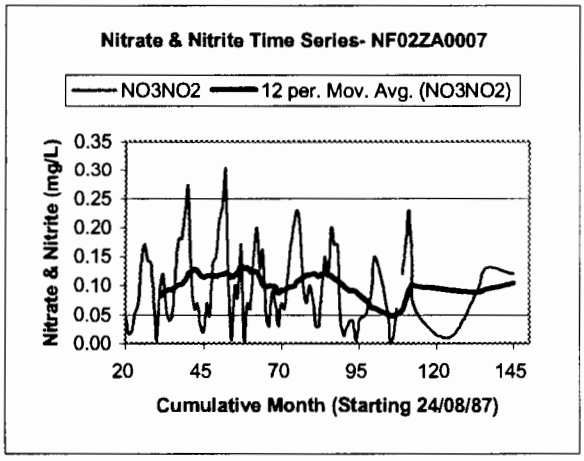

Chloride Time Series- NF02ZA0007
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

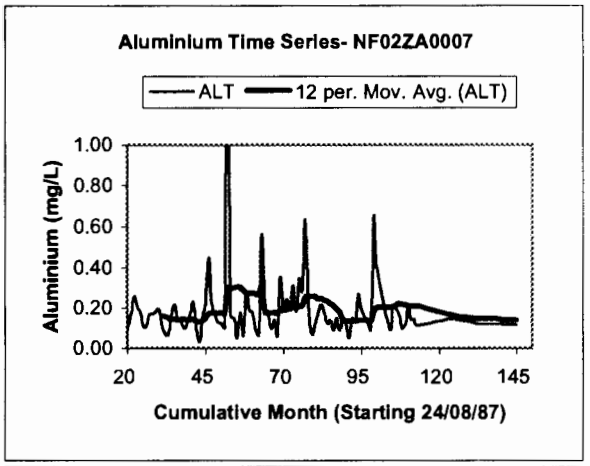

Dissolved Organic Carbon Time Series- NF02ZA0007
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

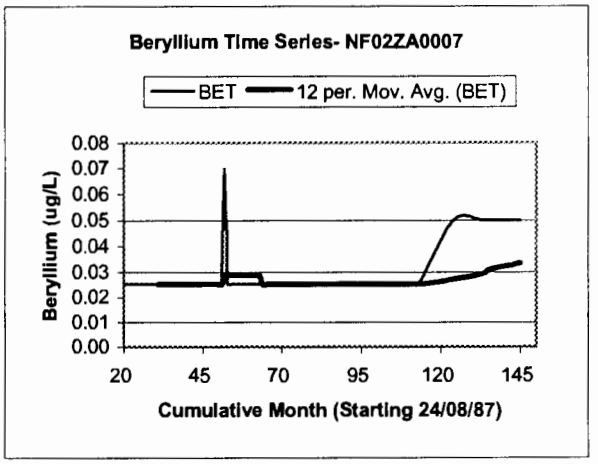

Nitrogen Time Series- NF02ZA0007
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

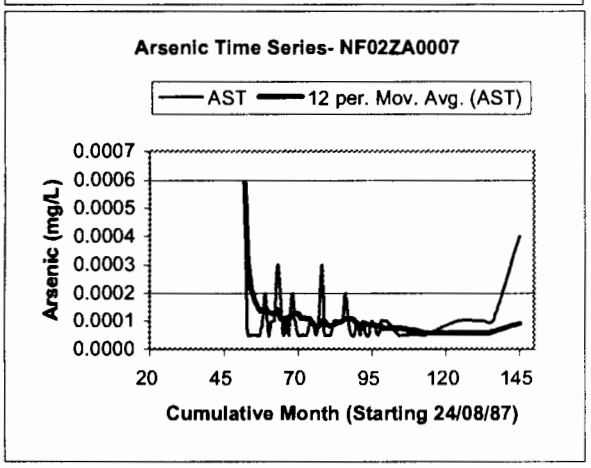

Phosphorous Time Series- NF02ZA0007
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

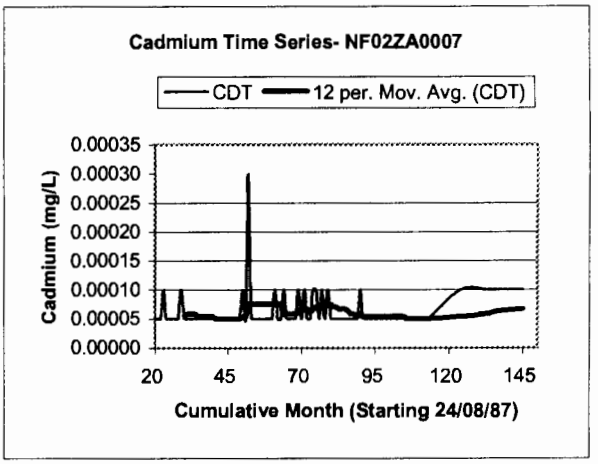

Silica Time Series- NF02ZA0007
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

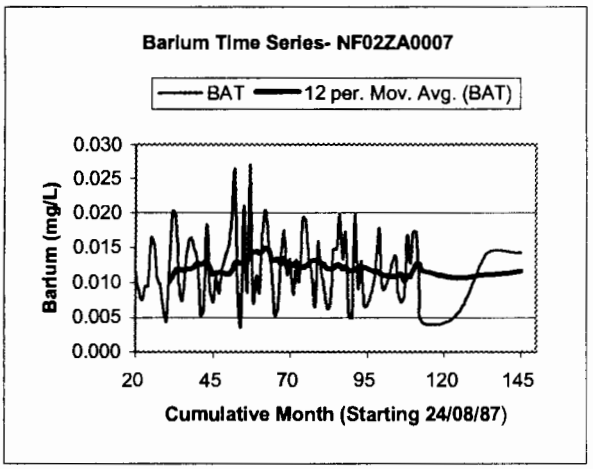

Nitrate & Nitrite Time Series- NF02ZA0007
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

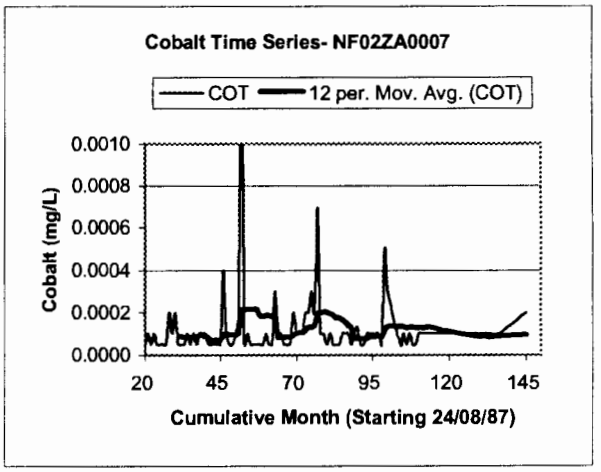

Aluminium Time Series- NF02ZA0007
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

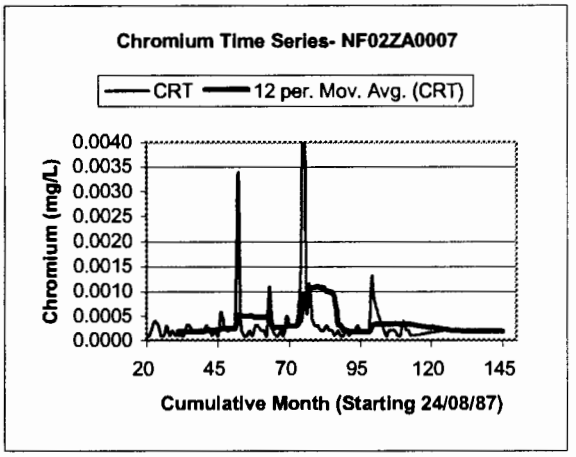

Beryllium Time Series- NF02ZA0007
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

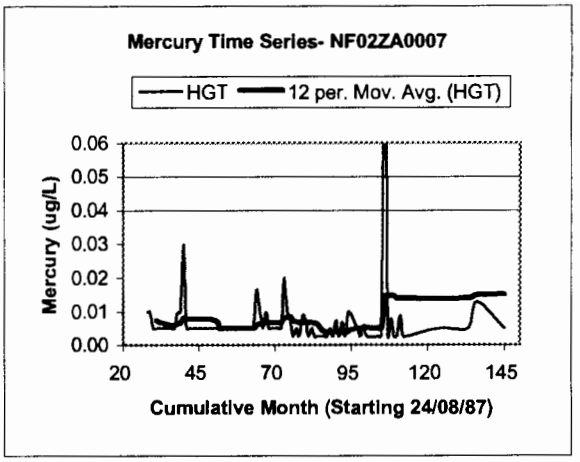

Arsenic Time Series- NF02ZA0007
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

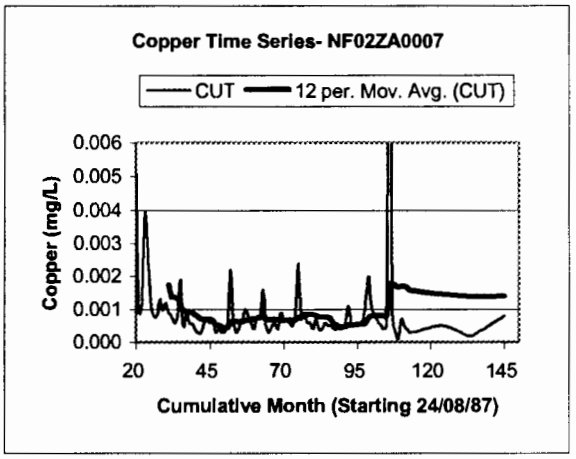

Cadmium Time Series- NF02ZA0007
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

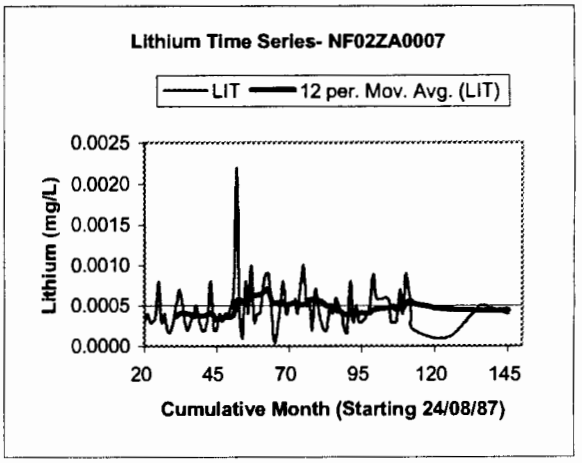

Barium Time Series- NF02ZA0007
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

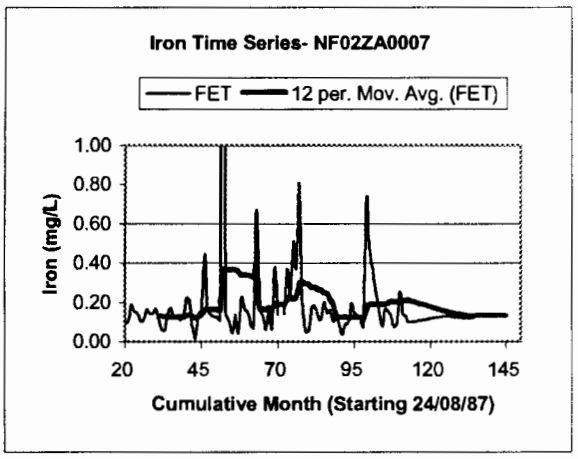

Cobalt Time Series- NF02ZA0007
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

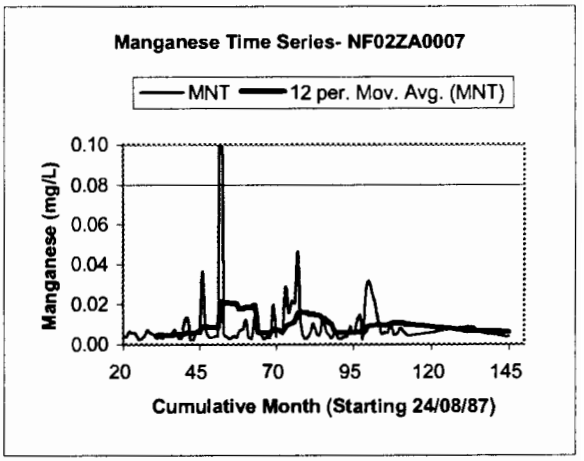

Chromium Time Series- NF02ZA0007
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

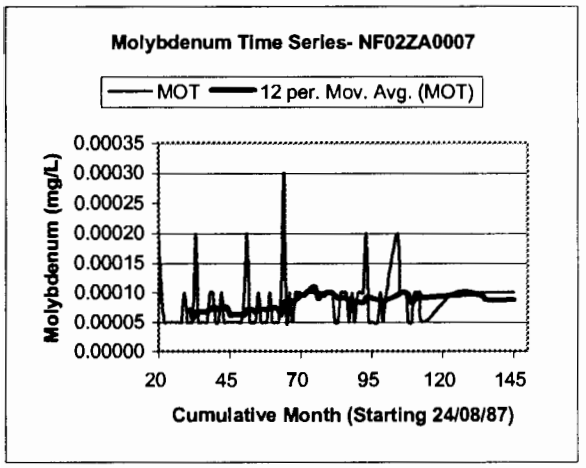

Mercury Time Series- NF02ZA0007
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

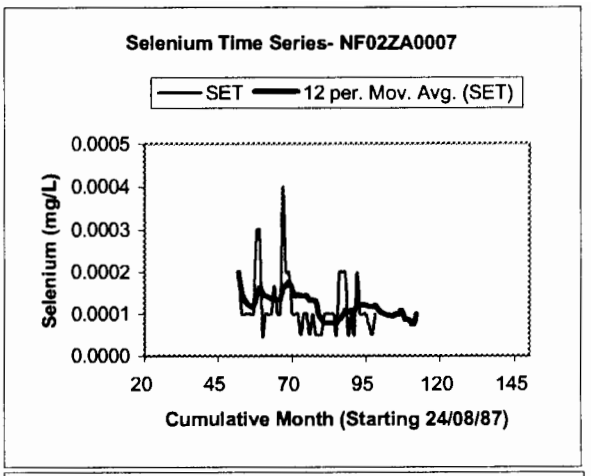

Copper Time Series- NF02ZA0007
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

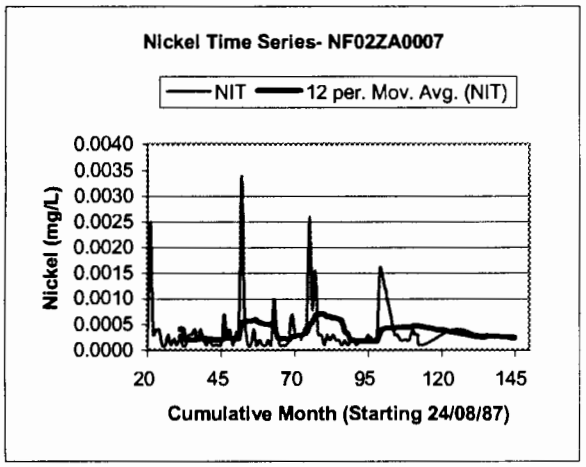

Lithium Time Series- NF02ZA0007
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

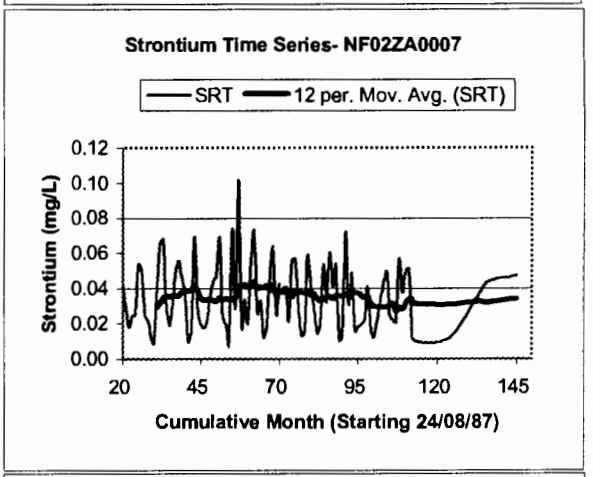

Iron Time Series- NF02ZA0007
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

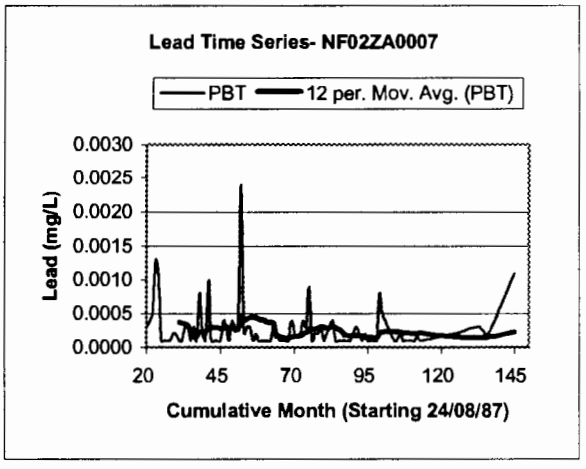

Manganese Time Series- NF02ZA0007
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.10
0.08
0.06
0.04
0.02
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

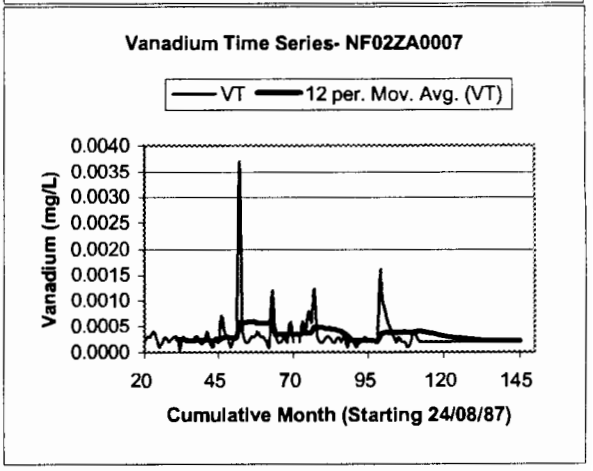

Molybdenum Time Series- NF02ZA0007
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

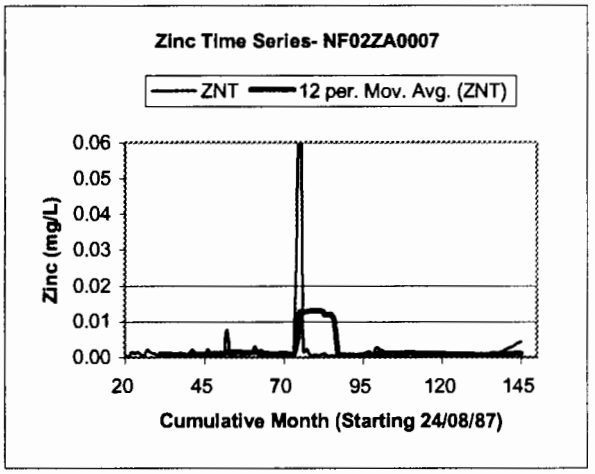

Selenium Time Series- NF02ZA0007
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)


Nickel Time Series- NF02ZA0007
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

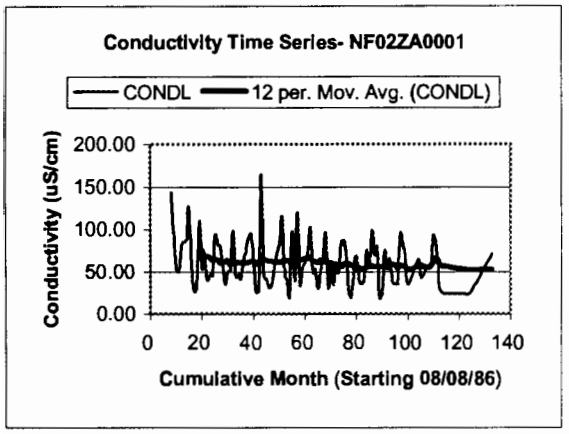

Strontium Time Series- NF02ZA0007
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

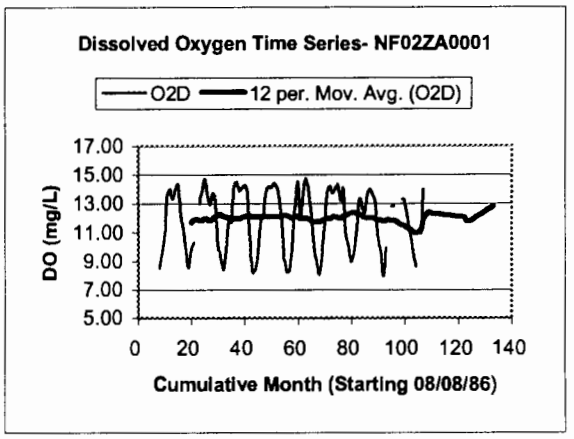

Lead Time Series- NF02ZA0007
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

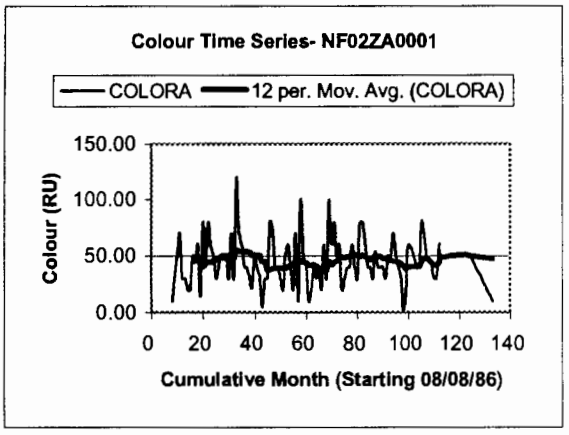

Vanadium Time Series- NF02ZA0007
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

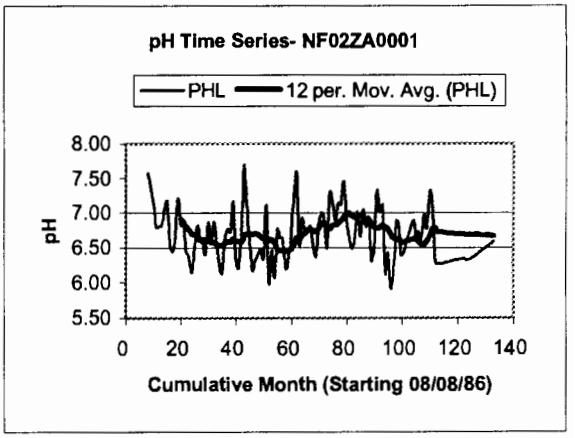

Zinc Time Series- NF02ZA0007
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20
45
70
95
120
145
Cumulative Month (Starting 24/08/87)

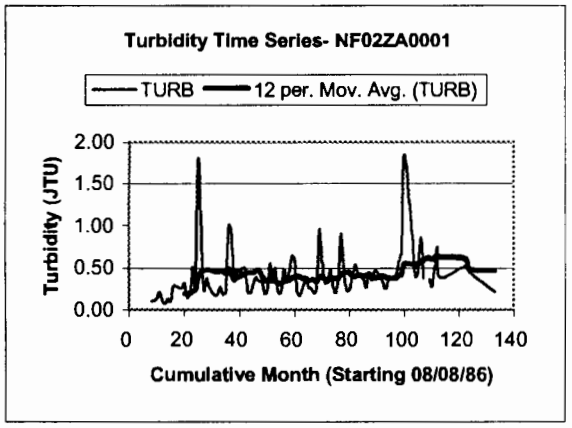
Time Series Plots of South Branch River- NF02ZA0001

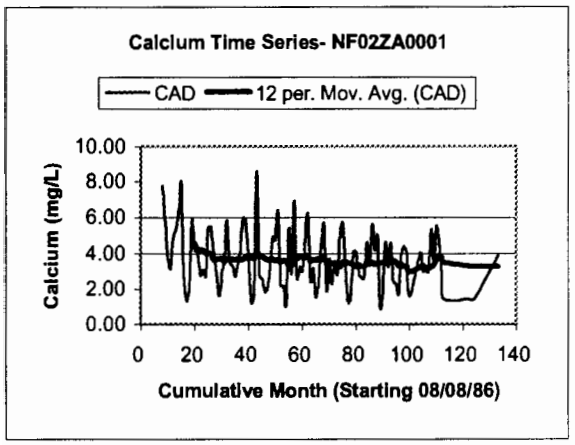


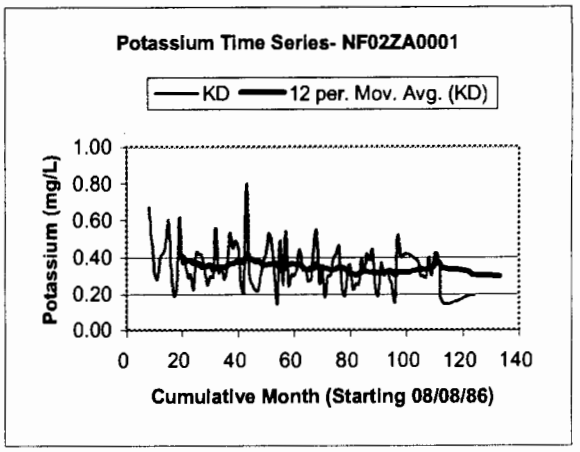


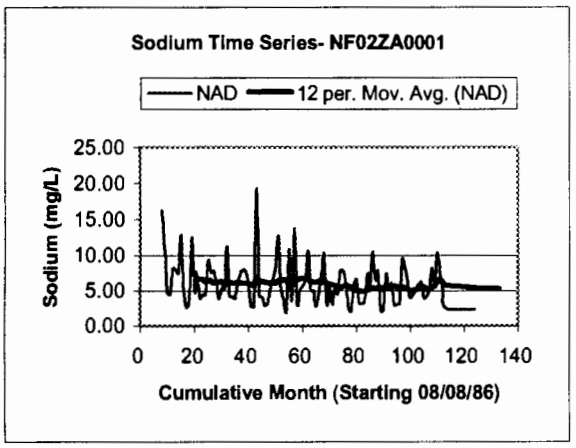


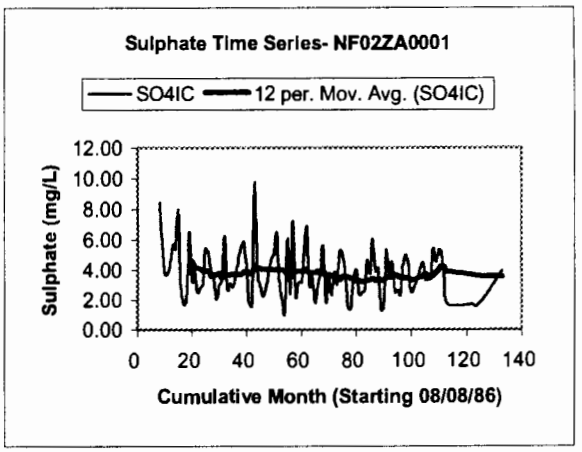


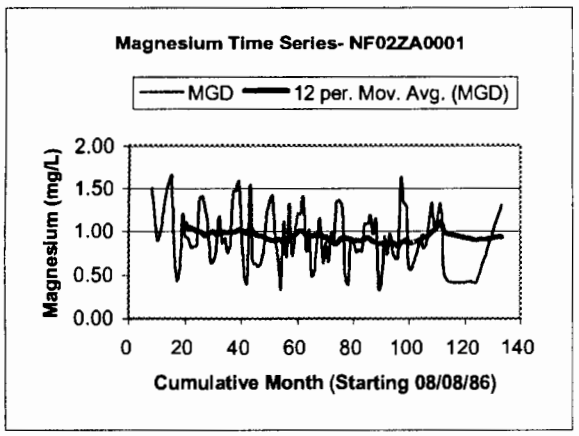


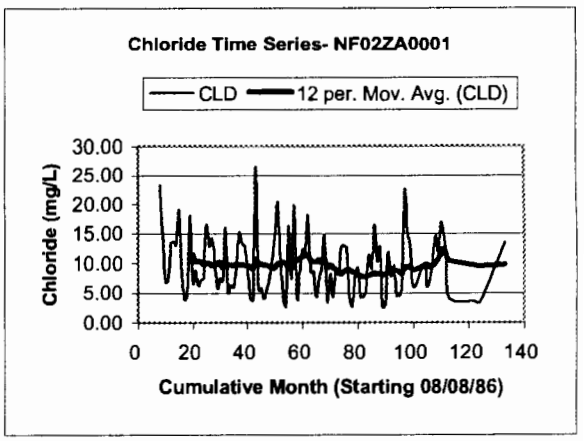

Calcium Time Series- NF02ZA0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

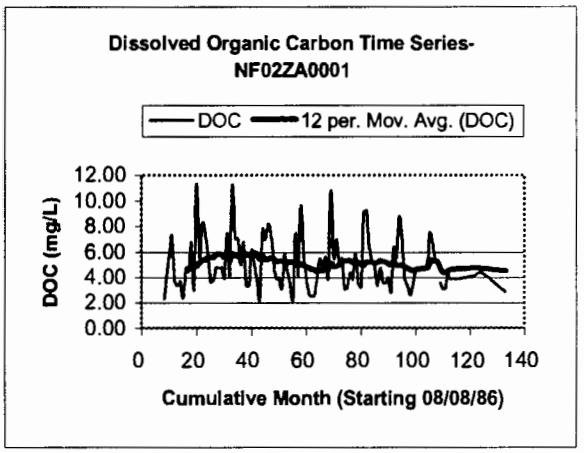

Potassium Time Series- NF02ZA0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

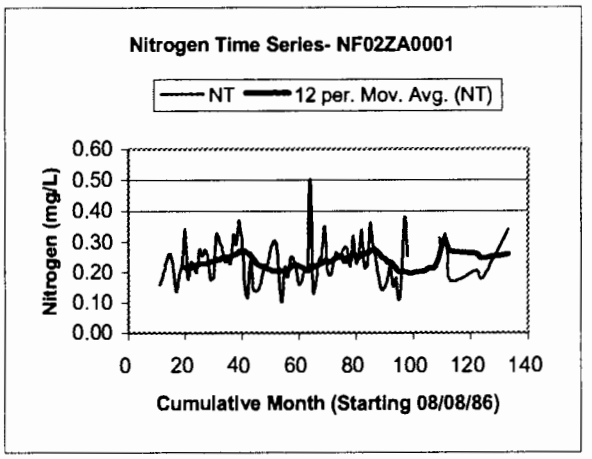

Sodium Time Series- NF02ZA0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

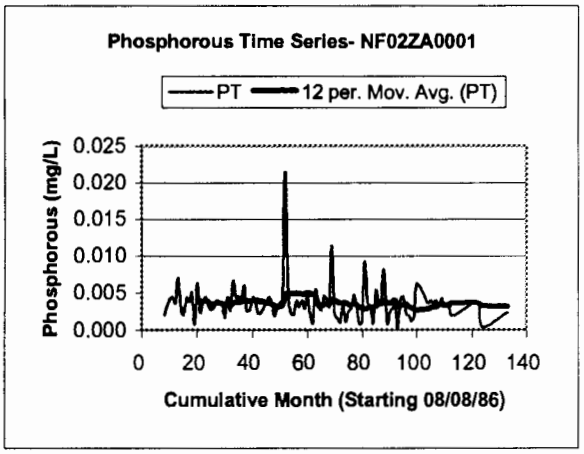

Sulphate Time Series- NF02ZA0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

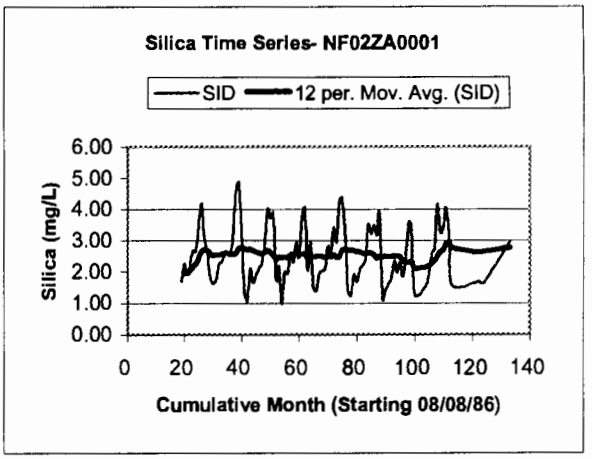

Magnesium Time Series- NF02ZA0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
2.00
1.50
1.00
0.50
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

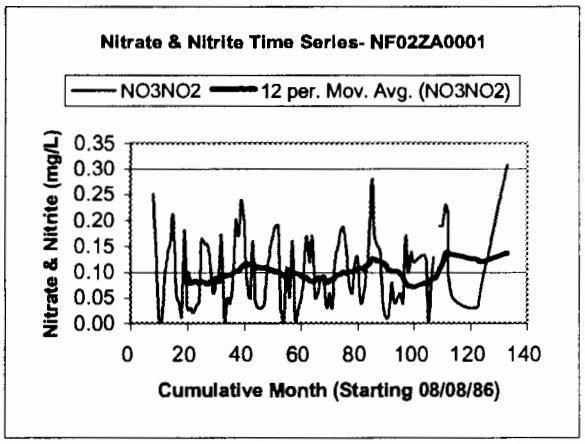

Chloride Time Series- NF02ZA0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

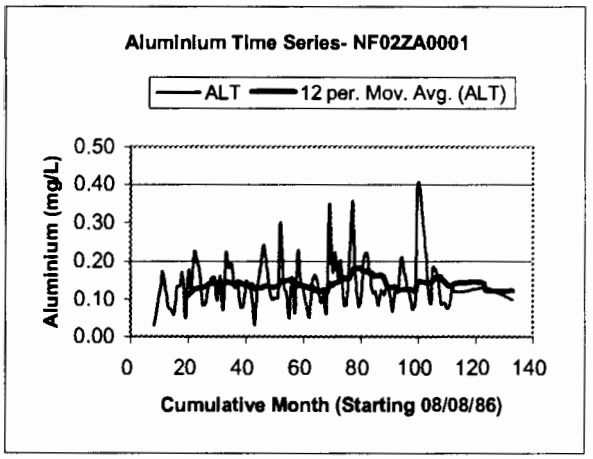

Dissolved Organic Carbon Time Series- NF02ZA0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

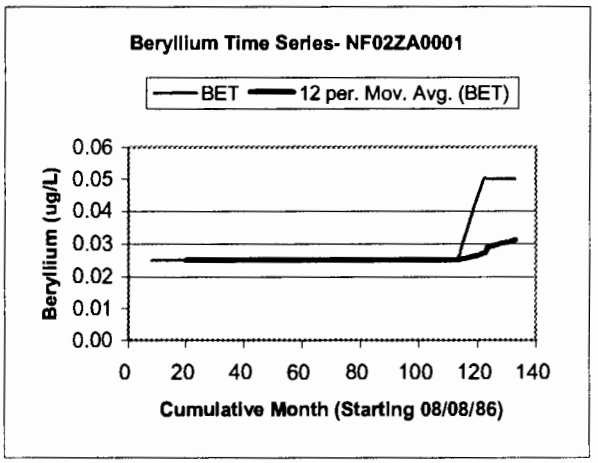

Nitrogen Time Series- NF02ZA0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

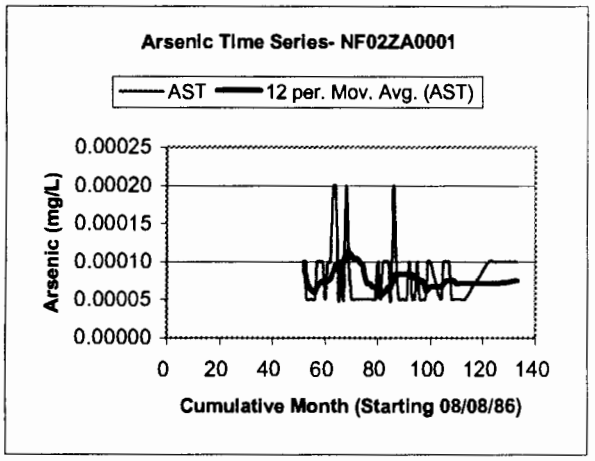

Phosphorous Time Series- NF02ZA0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

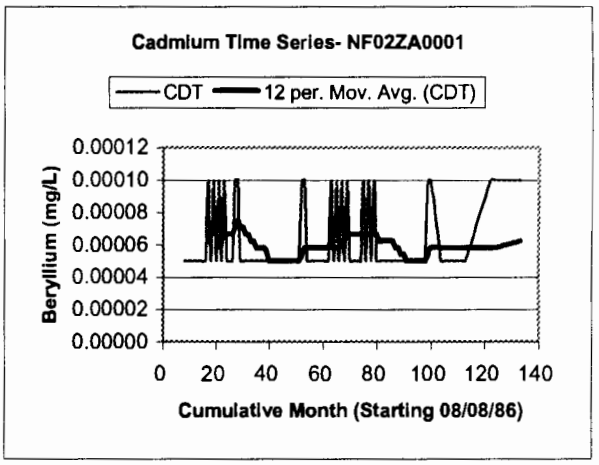

Silica Time Series- NF02ZA0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

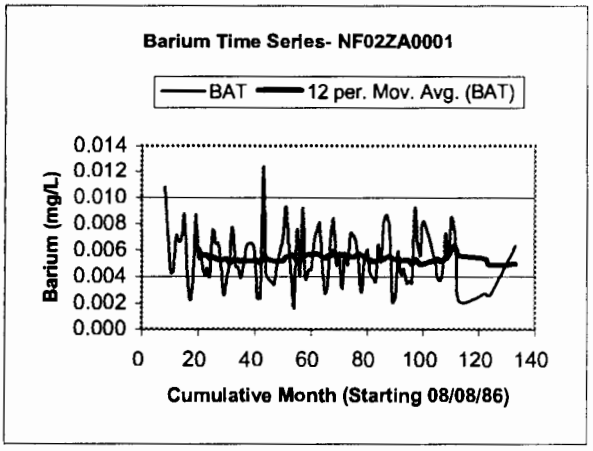

Nitrate & Nitrite Time Series- NF02ZA0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

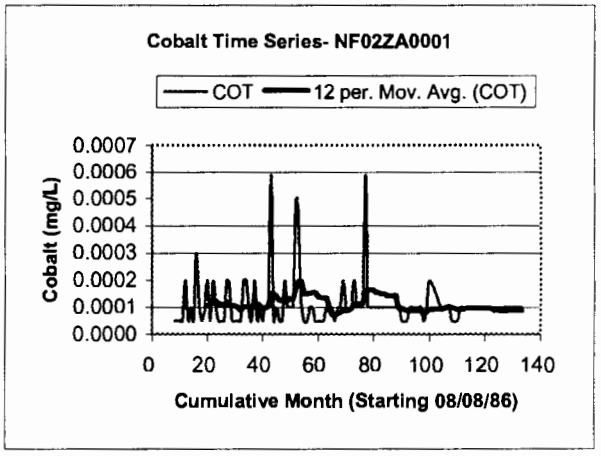

Aluminium Time Series- NF02ZA0001
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

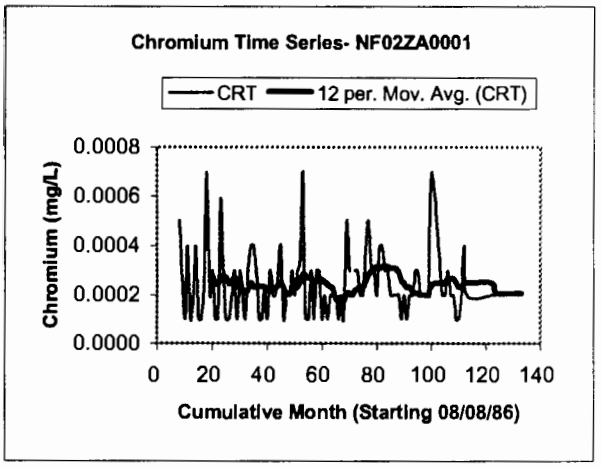

Beryllium Time Series- NF02ZA0001
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

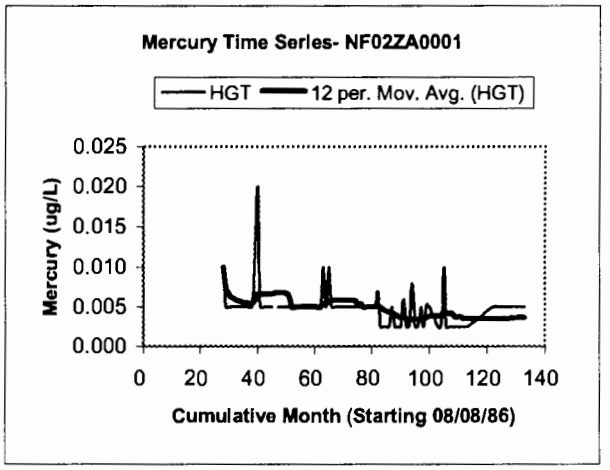

Arsenic Time Series- NF02ZA0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

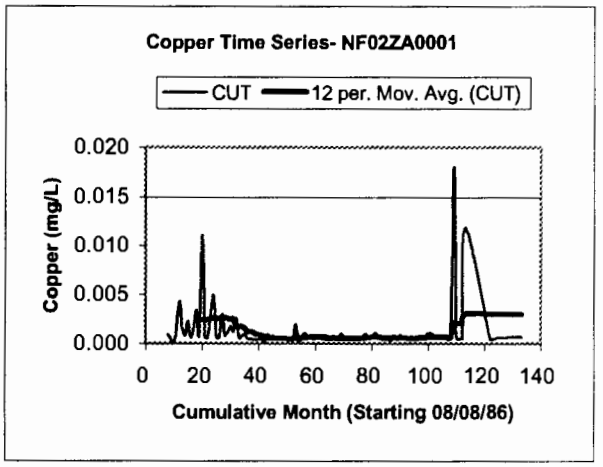

Cadmium Time Series- NF02ZA0001
CDT
12 per. Mov. Avg. (CDT)
Beryllium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

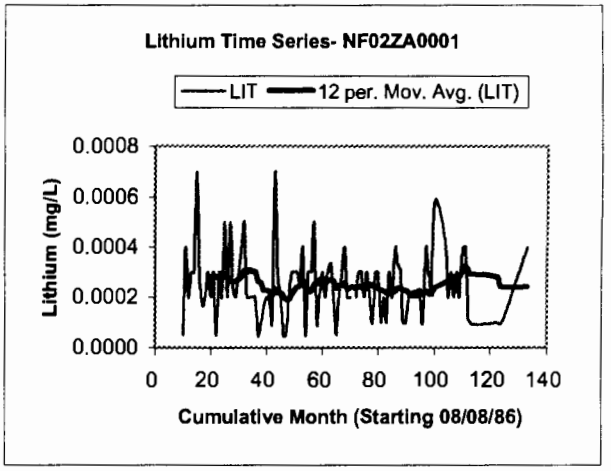

Barium Time Series- NF02ZA0001
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

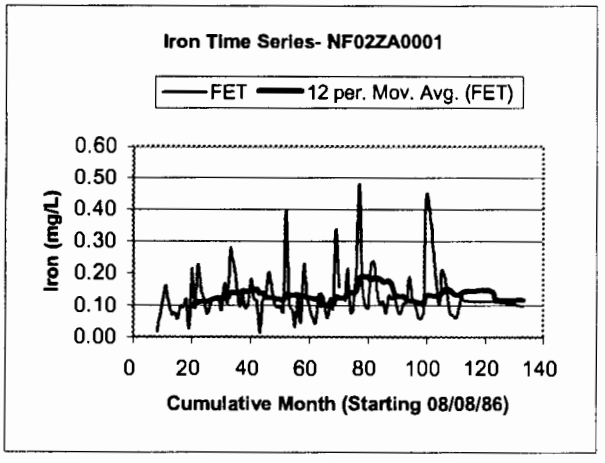

Cobalt Time Series- NF02ZA0001
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

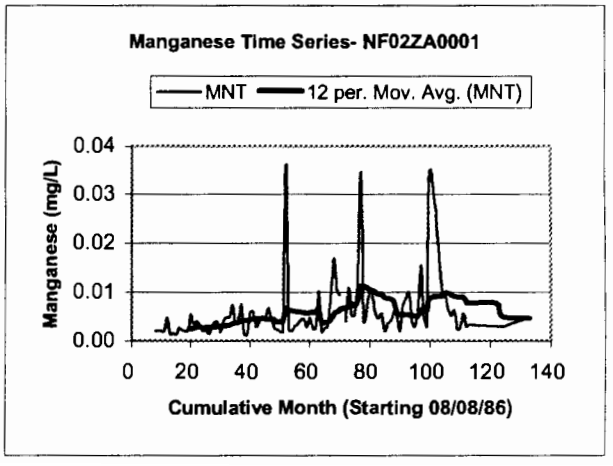

Chromium Time Series- NF02ZA0001
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

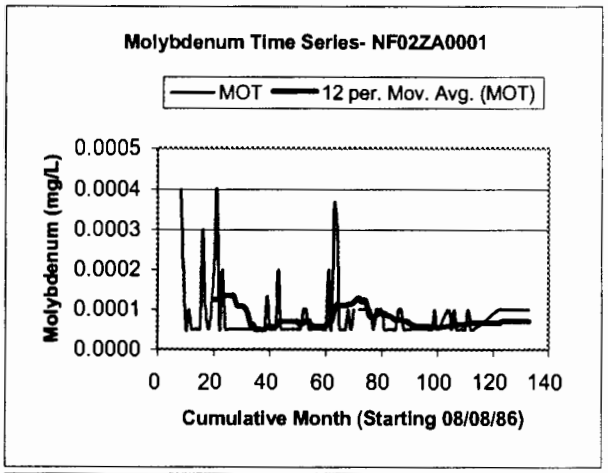

Mercury Time Series- NF02ZA0001
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

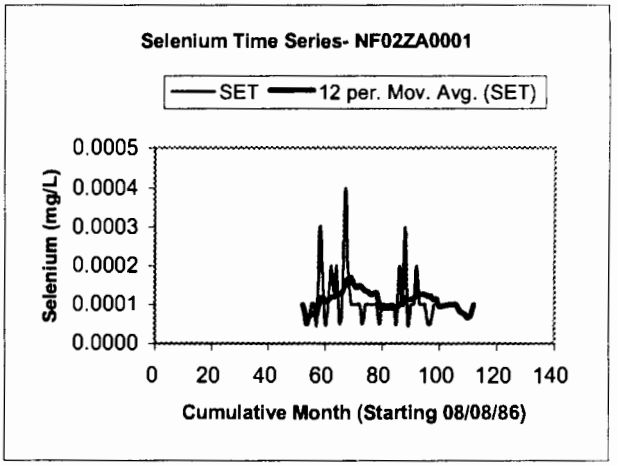

Copper Time Series- NF02ZA0001
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.020
0.015
0.010
0.005
0.000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

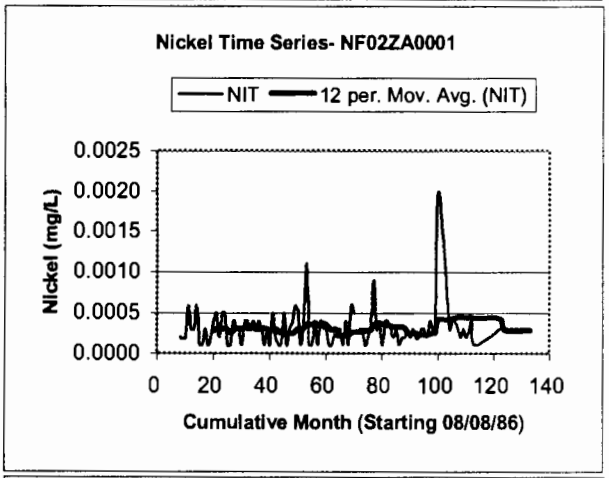

Lithium Time Series- NF02ZA0001
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

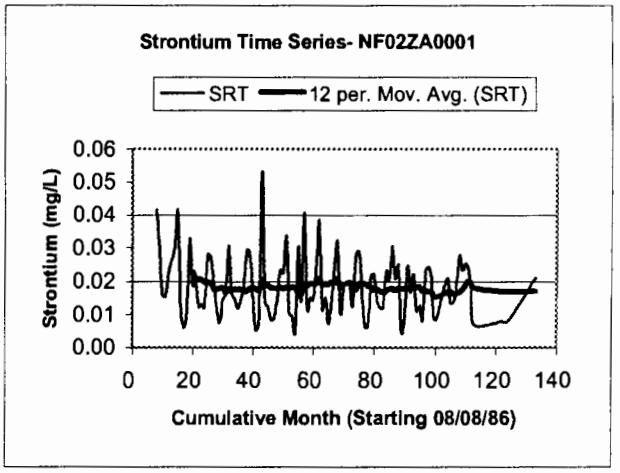

Iron Time Series- NF02ZA0001
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

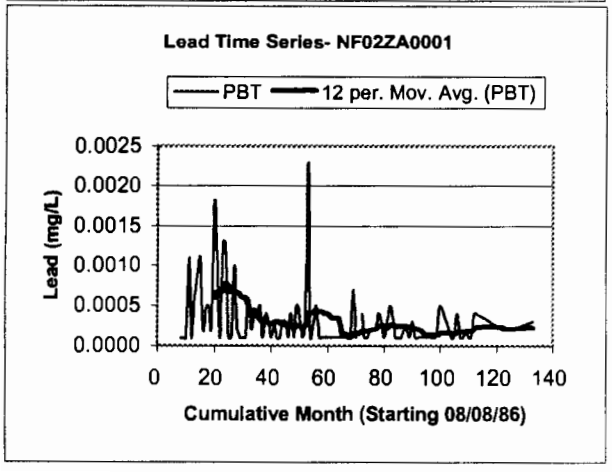

Manganese Time Series- NF02ZA0001
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

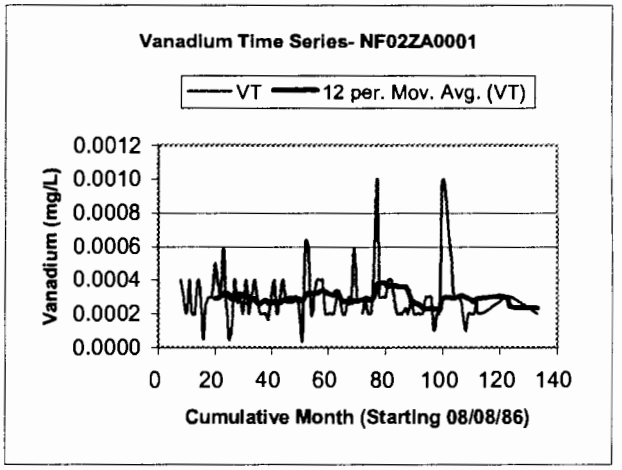

Molybdenum Time Series- NF02ZA0001
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

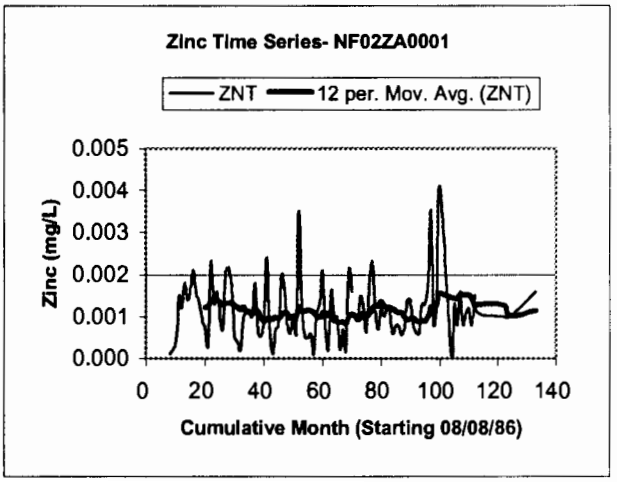

Selenium Time Series- NF02ZA0001
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)


Nickel Time Series- NF02ZA0001
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

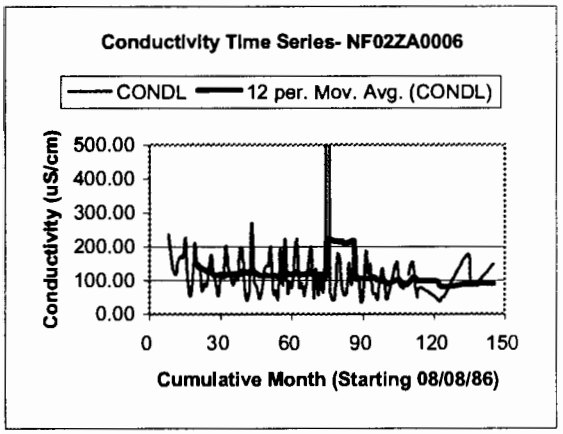

Strontium Time Series- NF02ZA0001
SRT
12 per. Mov. Avg. (SRT)
Stromtium (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

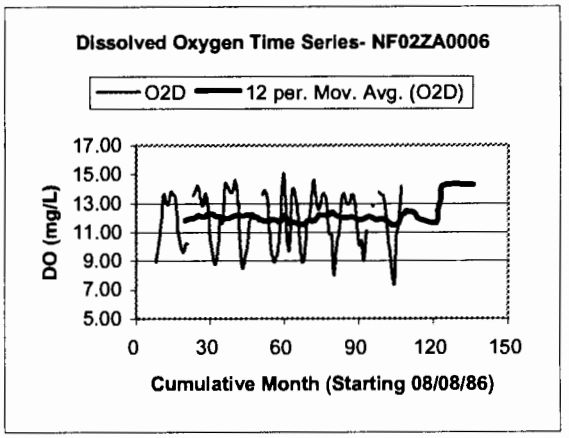

Lead Time Series- NF02ZA0001
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

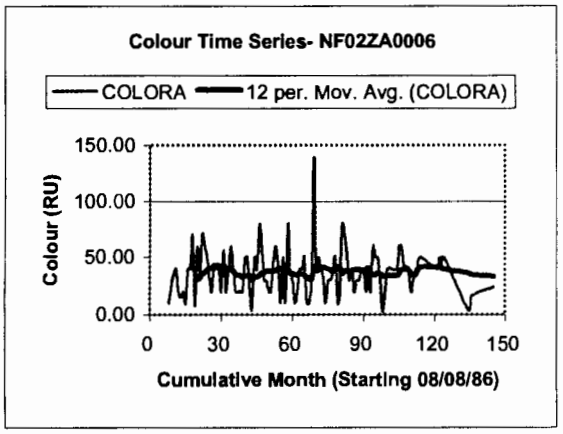

Vanadium Time Series- NF02ZA0001
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0 20 40 60 80 100 120 140
Cumulative Month (Starting 08/08/86)

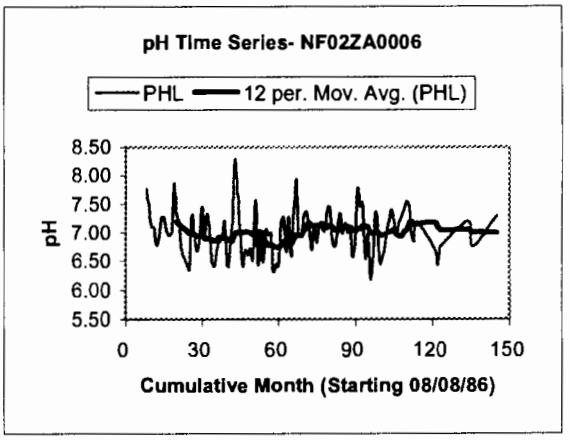

Zinc Time Series- NF02ZA0001
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
140
Cumulative Month (Starting 08/08/86)

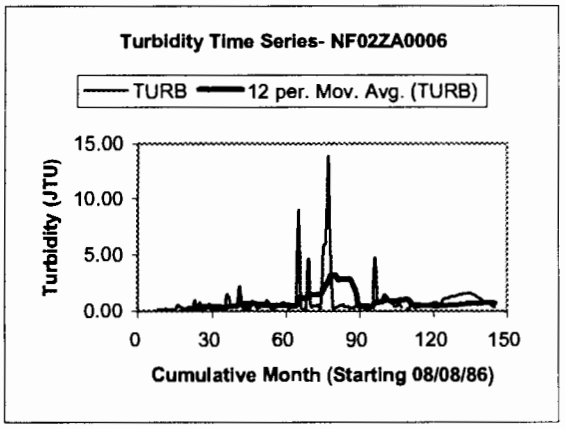
Time Series Plots of Grand Codroy River- NF02ZA0006

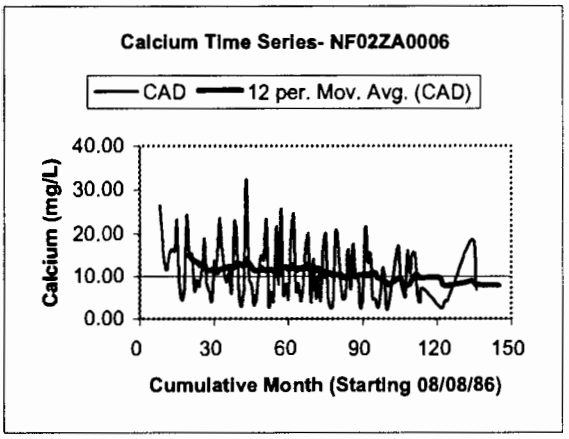


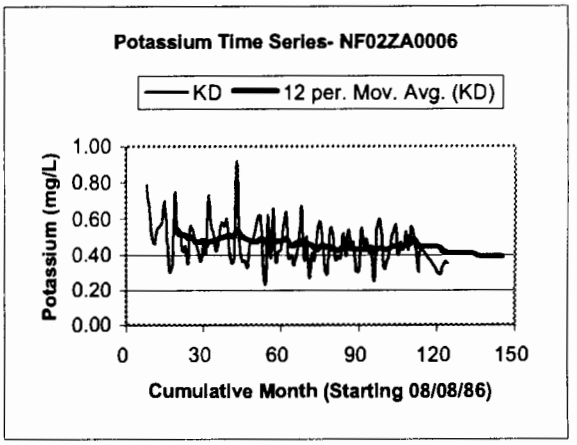


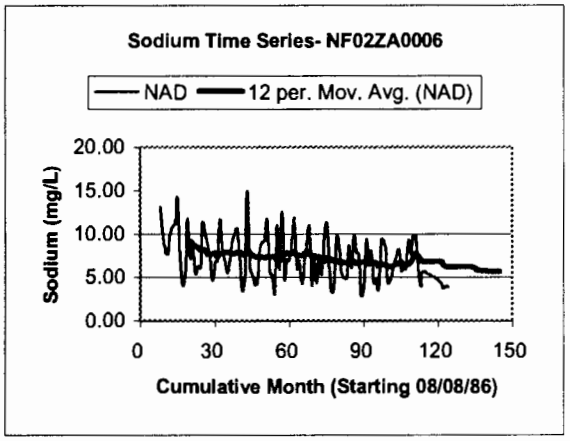


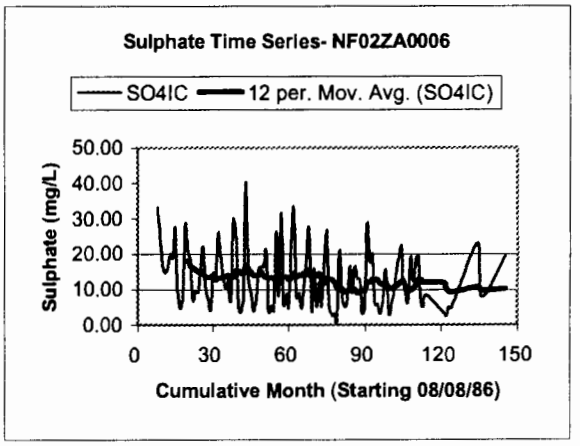


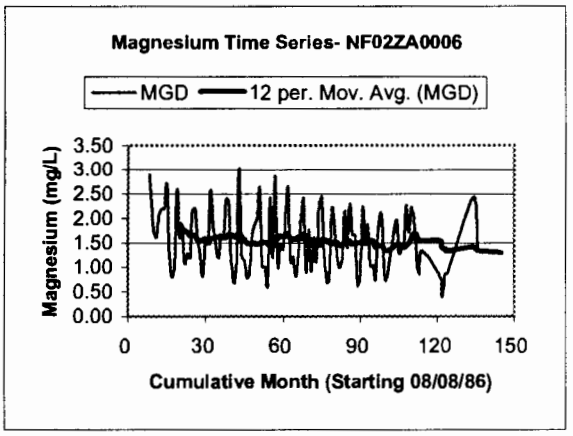


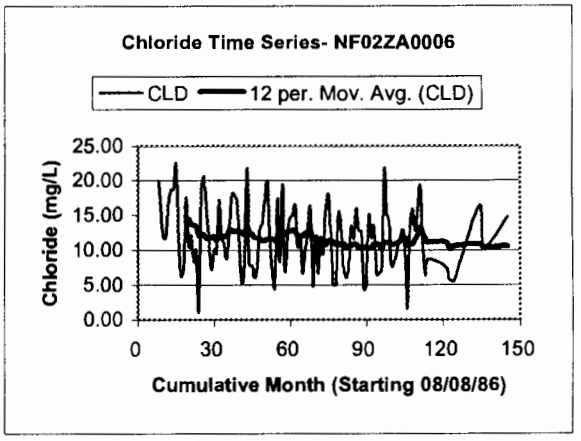

Calcium Time Series- NF02ZA0006
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
40.00
30.00
20.00
10.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

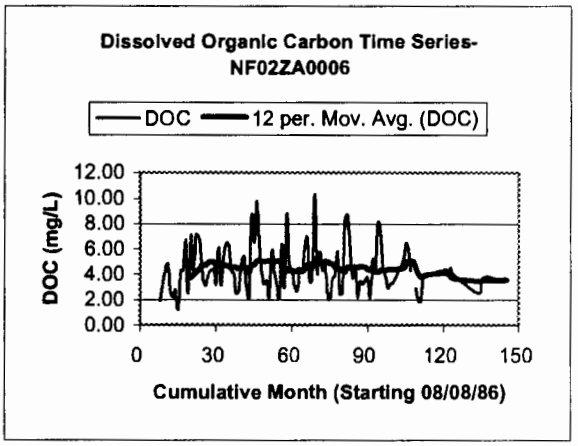

Potassium Time Series- NF02ZA0006
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

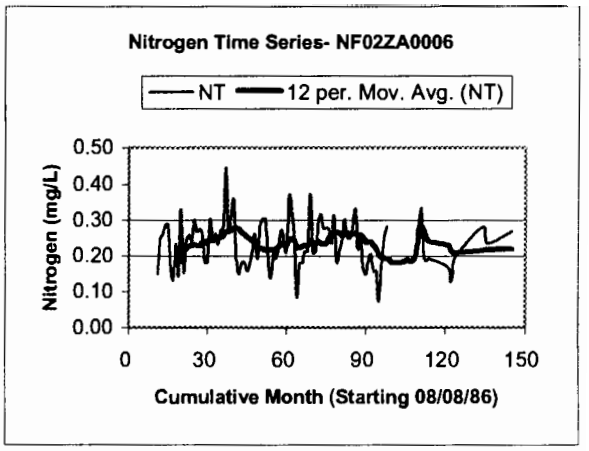

Sodium Time Series- NF02ZA0006
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

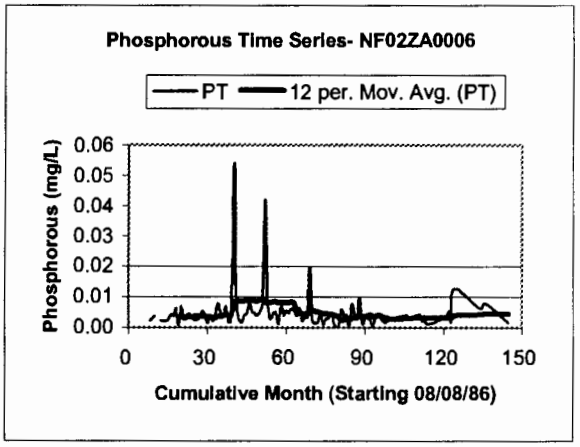

Sulphate Time Series- NF02ZA0006
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
50.00
40.00
30.00
20.00
10.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

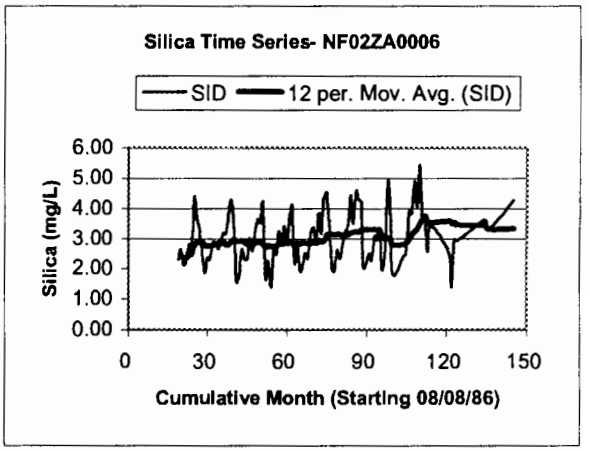

Magnesium Time Series- NF02ZA0006
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

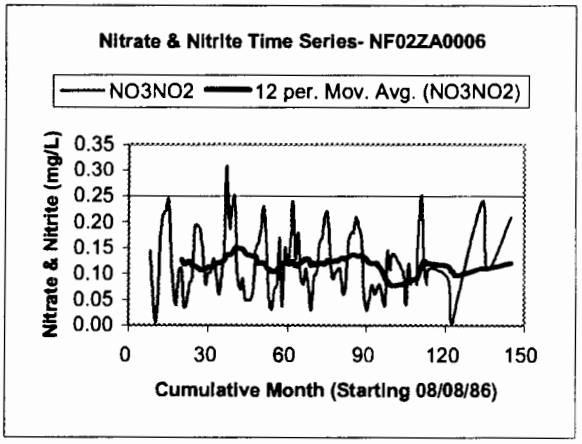

Chloride Time Series- NF02ZA0006
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
25.00
20.00
15.00
10.00
5.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

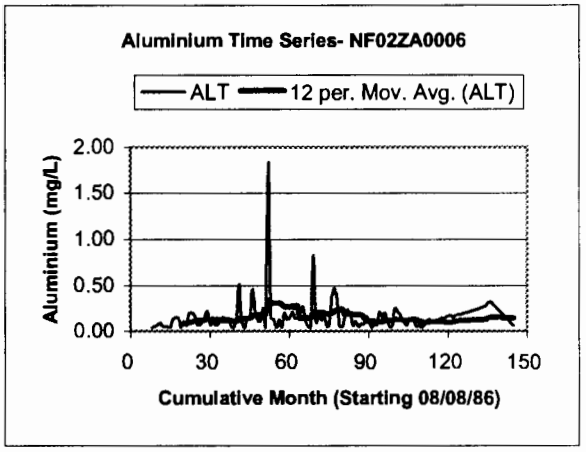

Dissolved Organic Carbon Time Series- NF02ZA0006
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

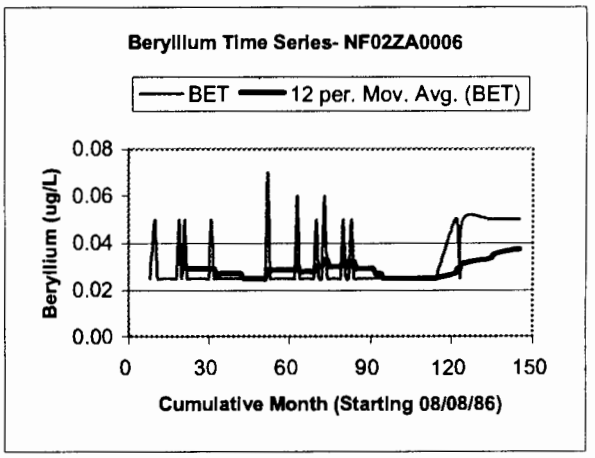

Nitrogen Time Series- NF02ZA0006
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

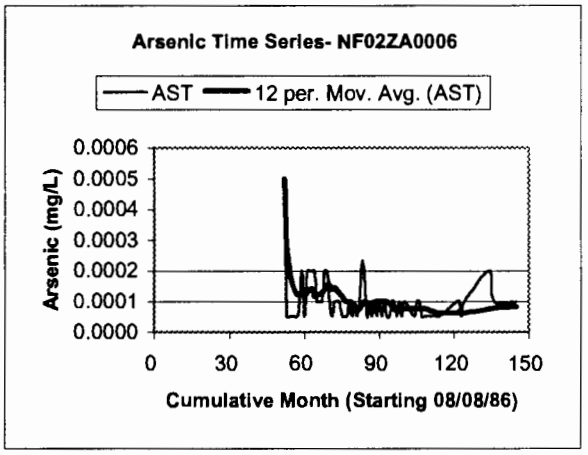

Phosphorous Time Series- NF02ZA0006
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

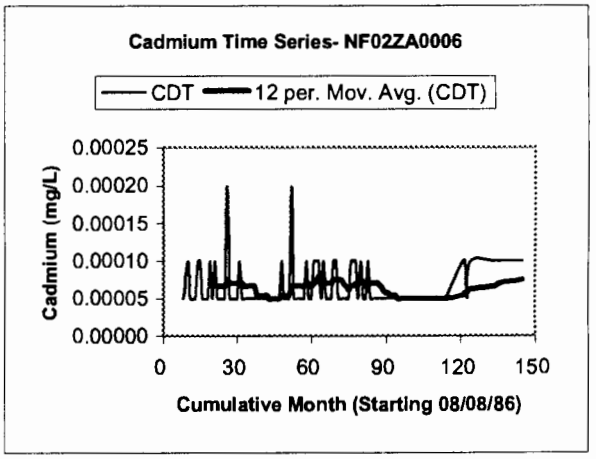

Silica Time Series- NF02ZA0006
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

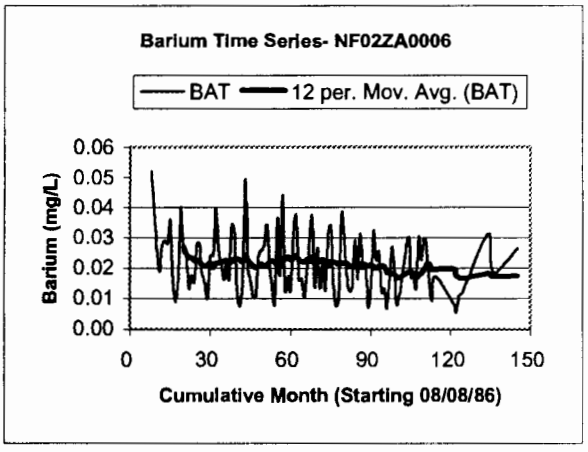

Nitrate & Nitrite Time Series- NF02ZA0006
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

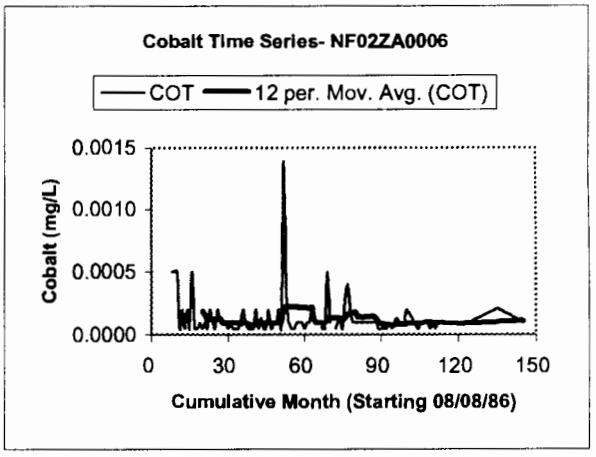

Aluminium Time Series- NF02ZA0006
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

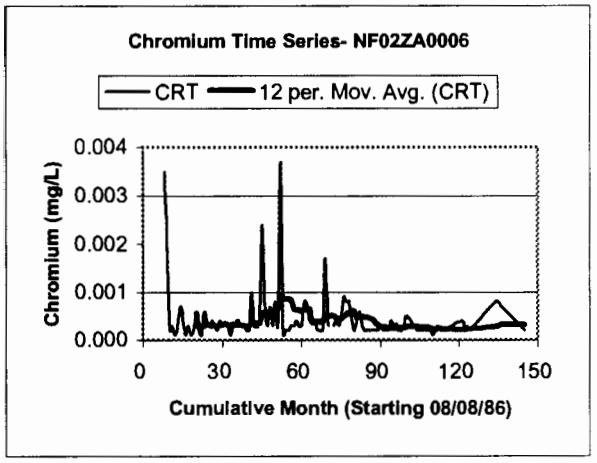

Beryllium Time Series- NF02ZA0006
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.08
0.06
0.04
0.02
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

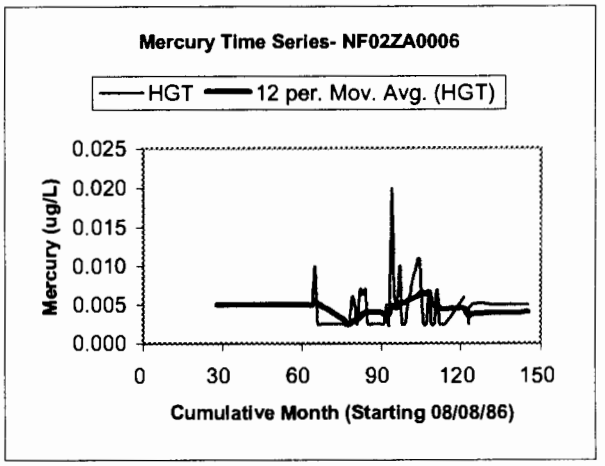

Arsenic Time Series- NF02ZA0006
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

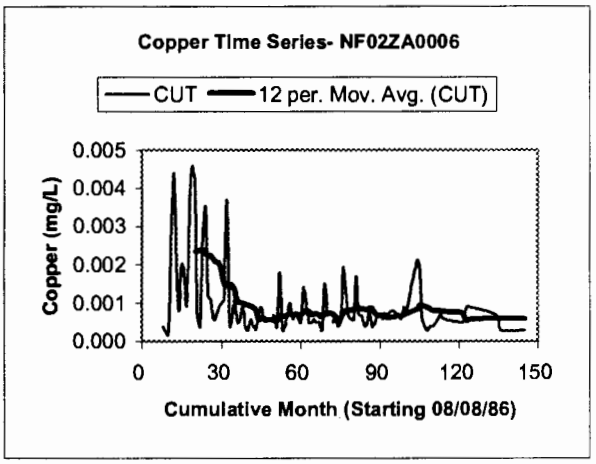

Cadmium Time Series- NF02ZA0006
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

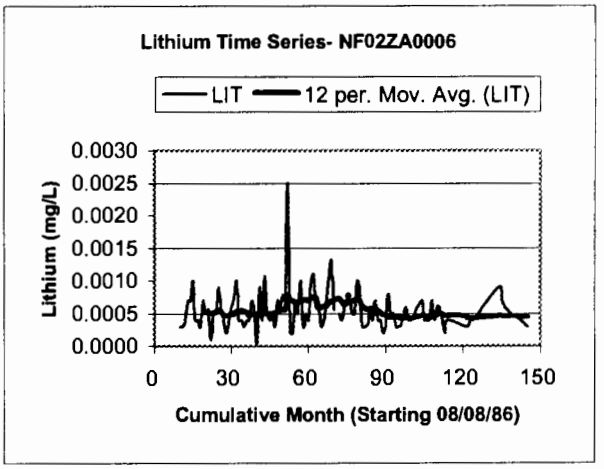

Barium Time Series- NF02ZA0006
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

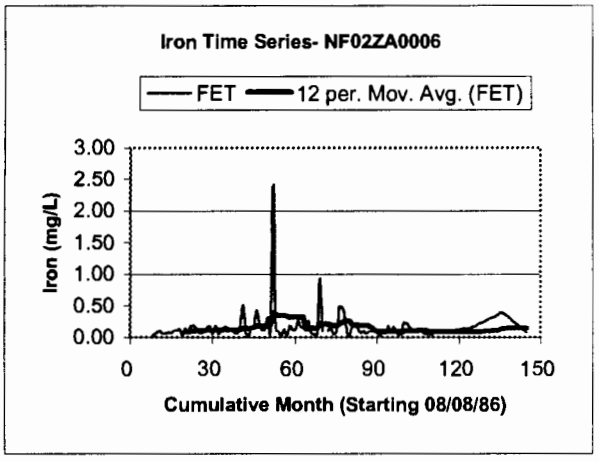

Cobalt Time Series- NF02ZA0006
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

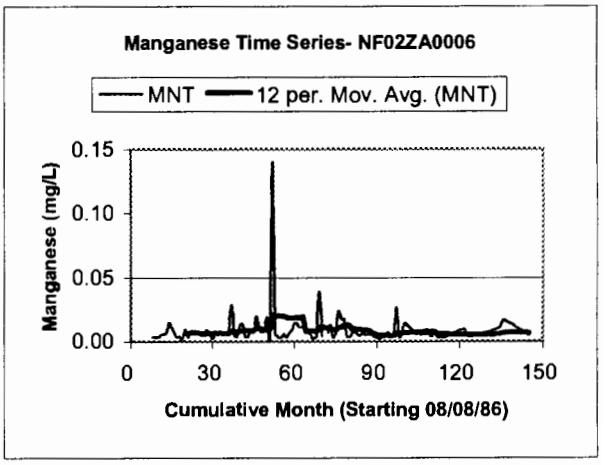

Chromium Time Series- NF02ZA0006
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

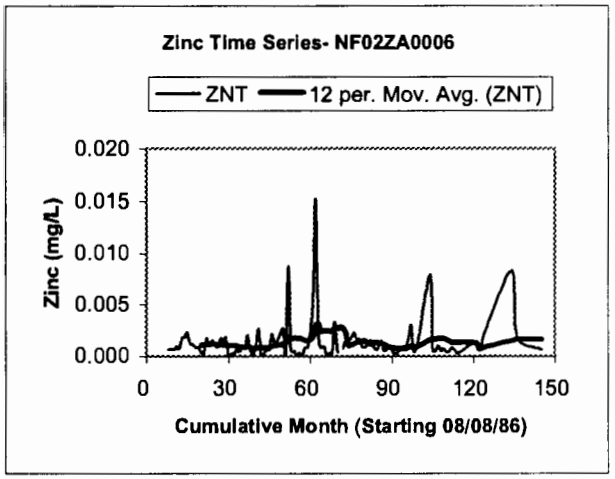

Mercury Time Series- NF02ZA0006
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.025
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

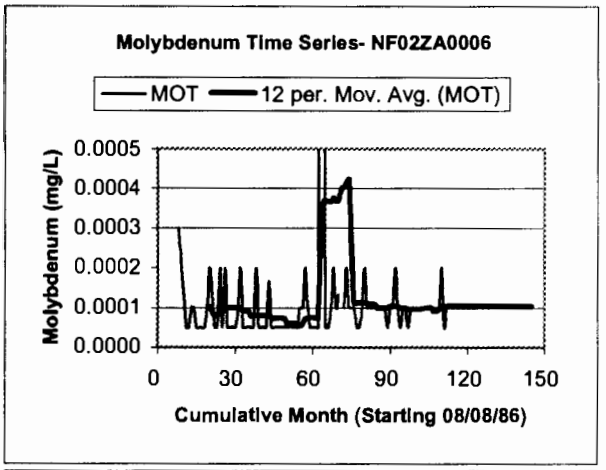

Copper Time Series- NF02ZA0006
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

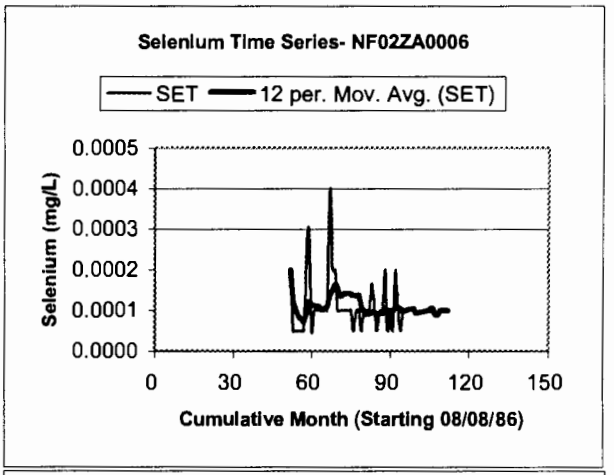

Lithium Time Series- NF02ZA0006
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

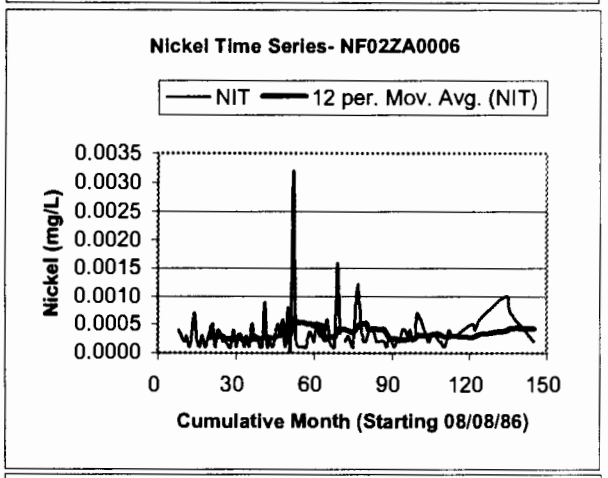

Iron Time Series- NF02ZA0006
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

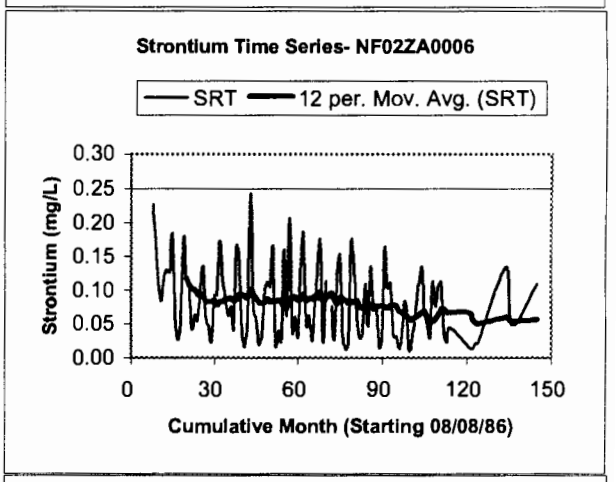

Manganese Time Series- NF02ZA0006
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.15
0.10
0.05
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

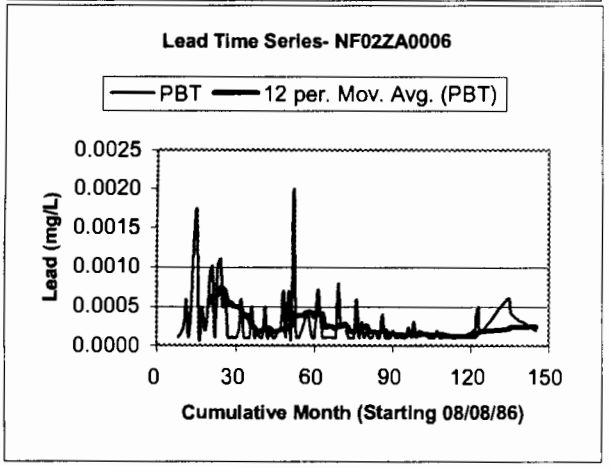

Zinc Time Series- NF02ZA0006
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.020
0.015
0.010
0.005
0.000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

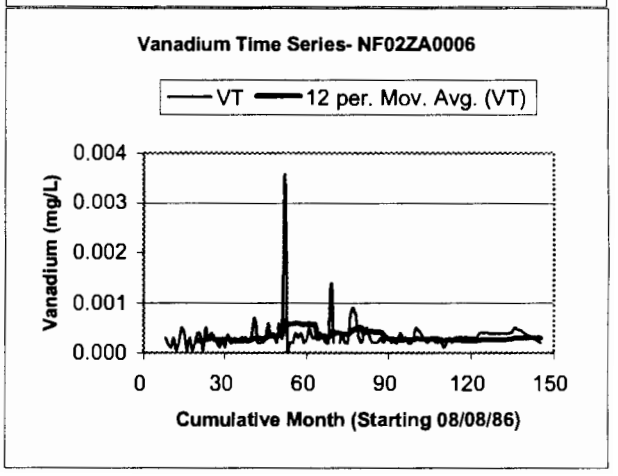

Molybdenum Time Series- NF02ZA0006
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)


Selenium Time Series- NF02ZA0006
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

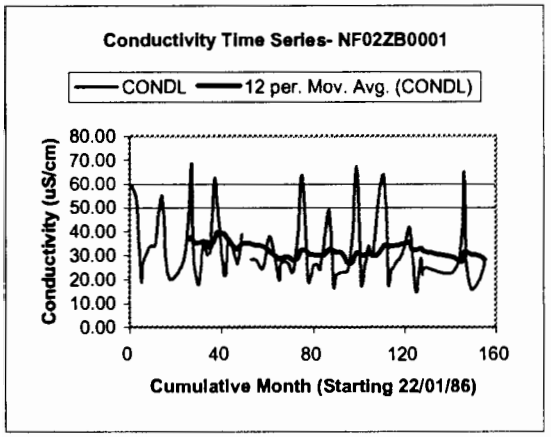

Nickel Time Series- NF02ZA0006
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

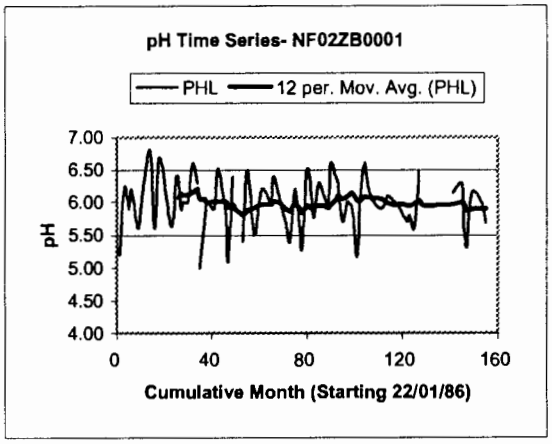

Strontium Time Series- NF02ZA0006
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

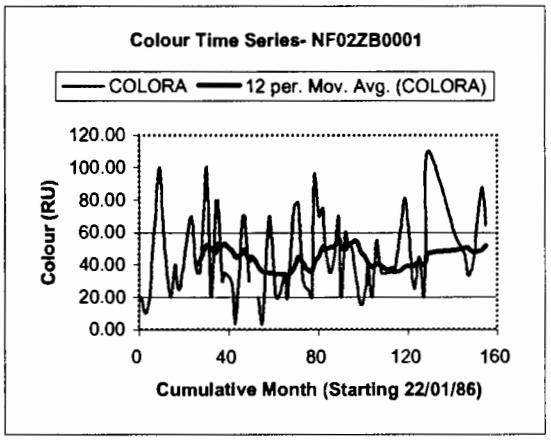

Lead Time Series- NF02ZA0006
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

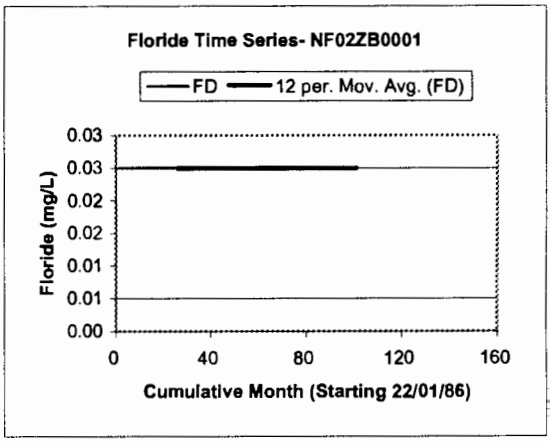

Vanadium Time Series- NF02ZA0006
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.004
0.003
0.002
0.001
0.000
0
30
60
90
120
150
Cumulative Month (Starting 08/08/86)

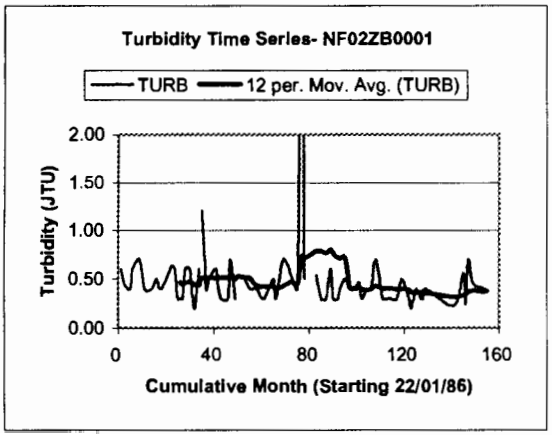
Time Series Plots of Isle aux Mort River- NF02ZB0001

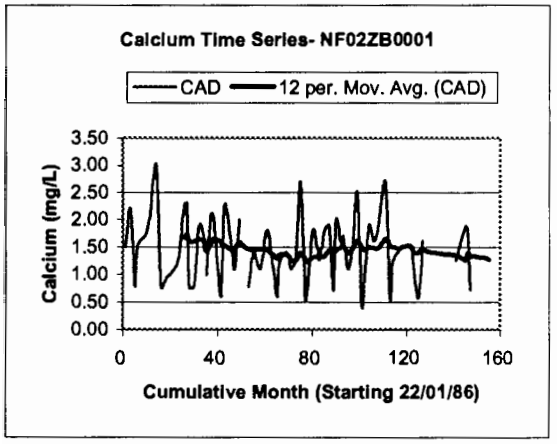


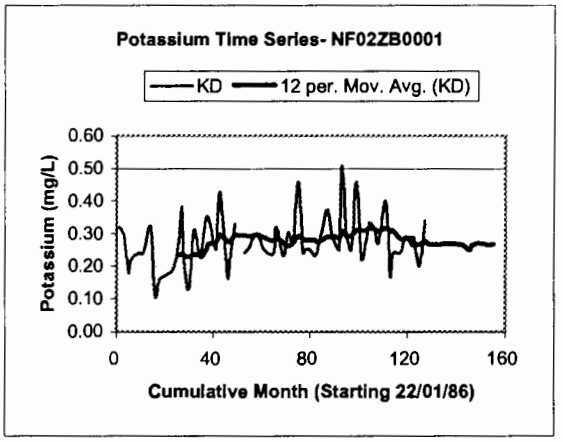


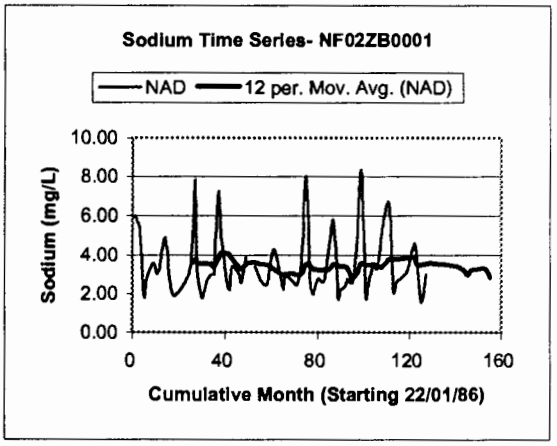


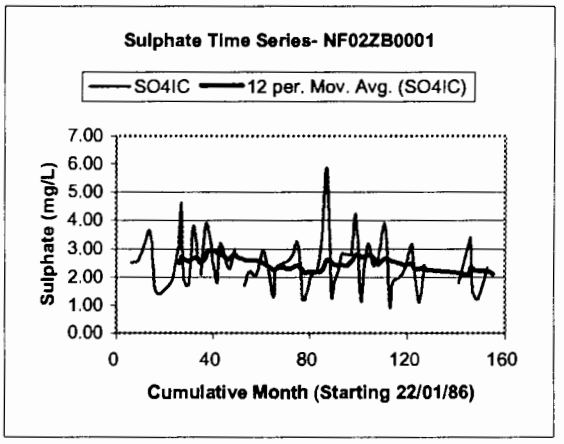


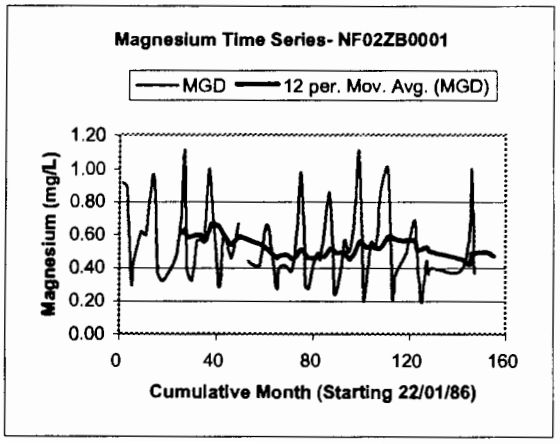


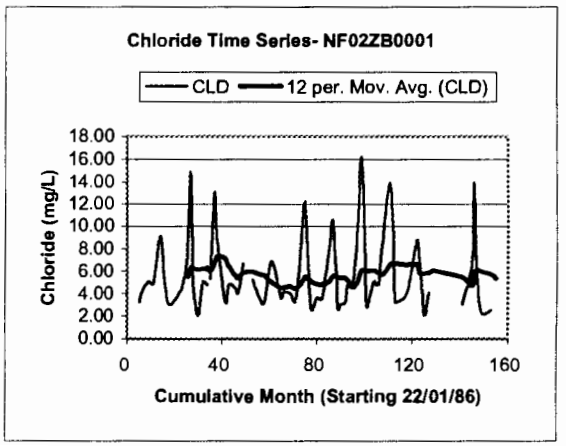

Calcium Time Series- NF02ZB0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

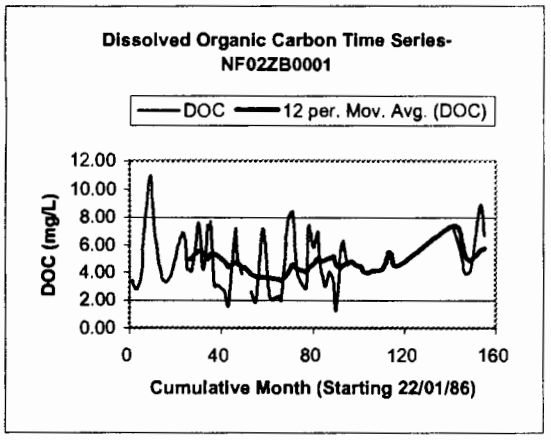

Potassium Time Series- NF02ZB0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

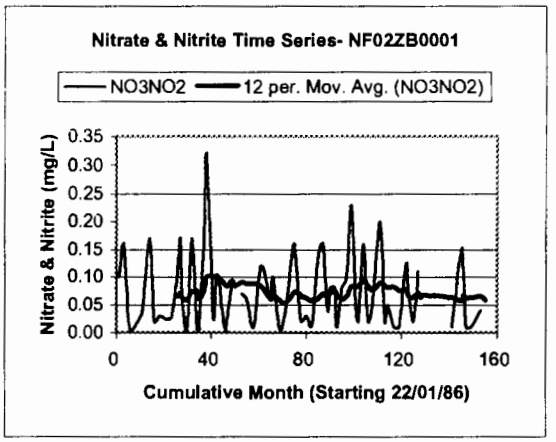

Sodium Time Series- NF02ZB0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

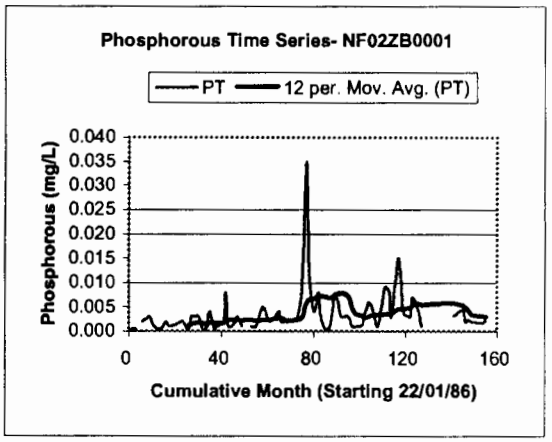

Sulphate Time Series- NF02ZB0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

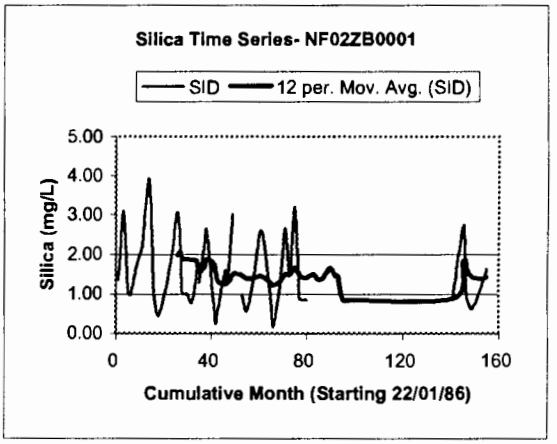

Magnesium Time Series- NF02ZB0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

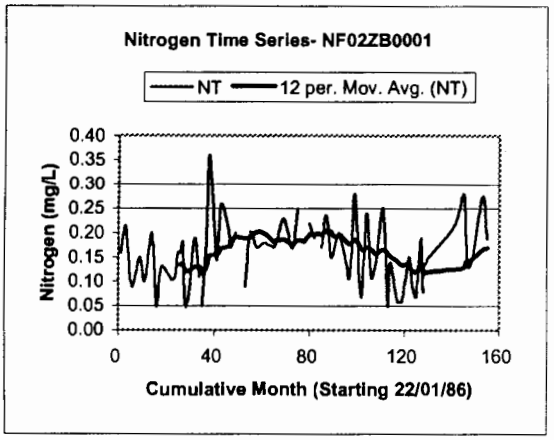

Chloride Time Series- NF02ZB0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)


Dissolved Organic Carbon Time Series- NF02ZB0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

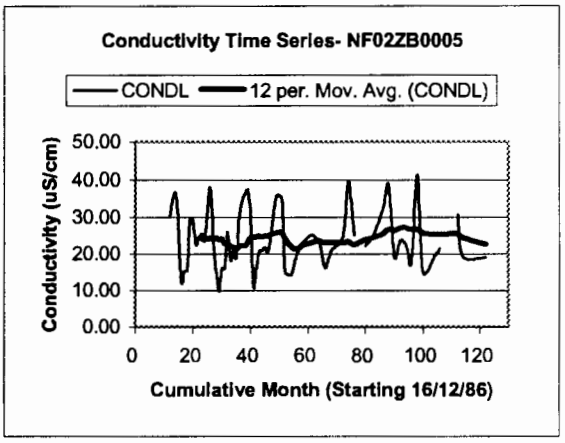

Nitrate & Nitrite Time Series- NF02ZB0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

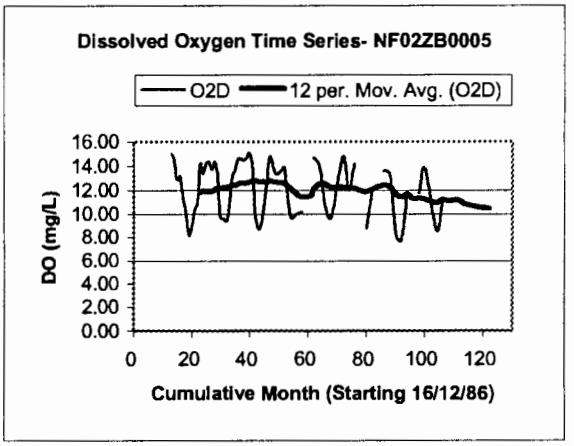

Phosphorous Time Series- NF02ZB0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

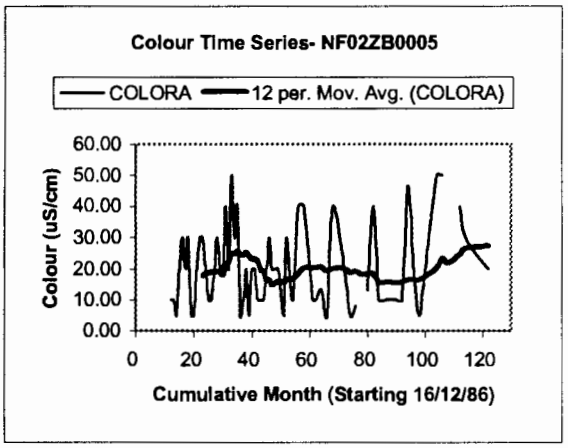

Silica Time Series- NF02ZB0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

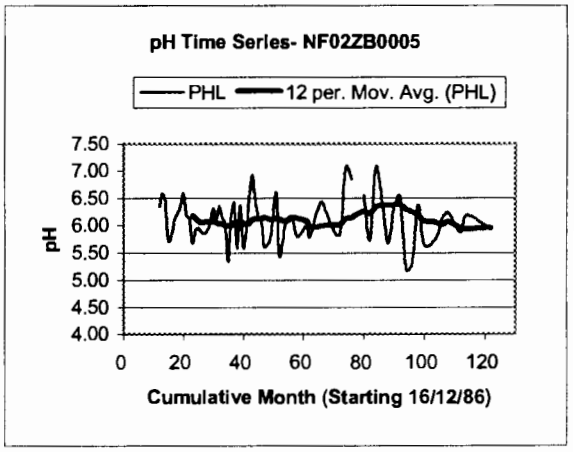

Nitrogen Time Series- NF02ZB0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 22/01/86)

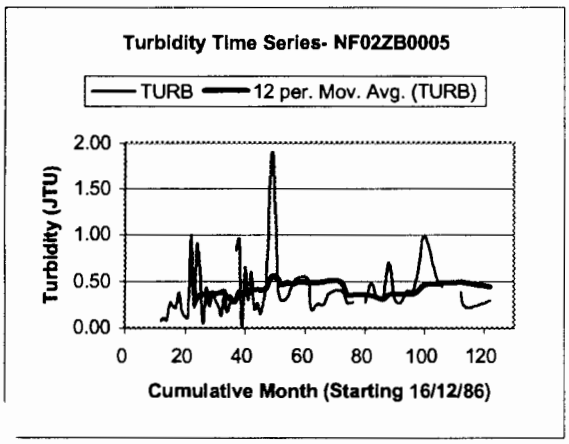
Time Series Plots of Cing Cerf Brook- NF02ZB0005

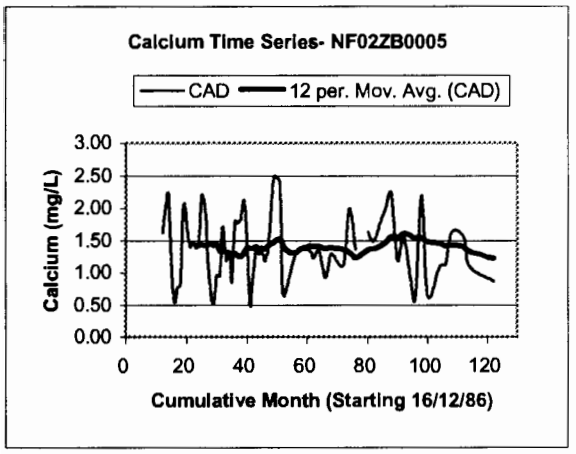


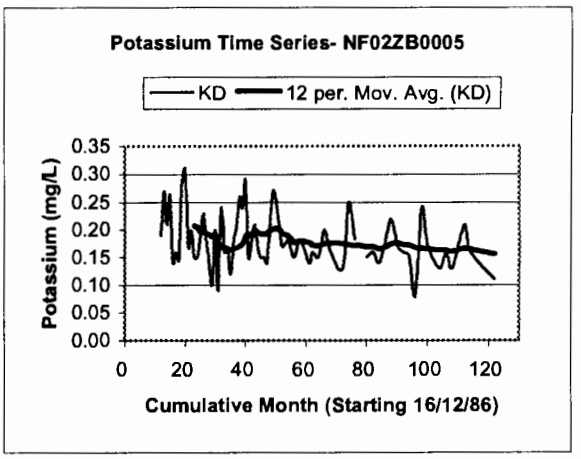


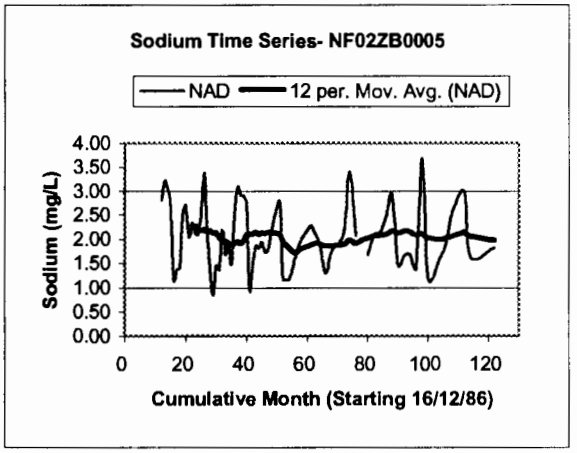


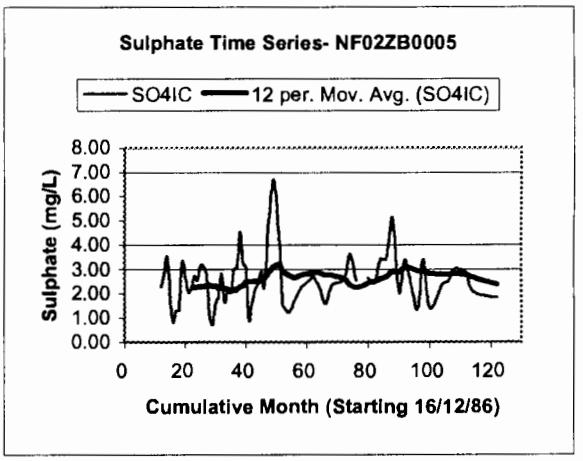


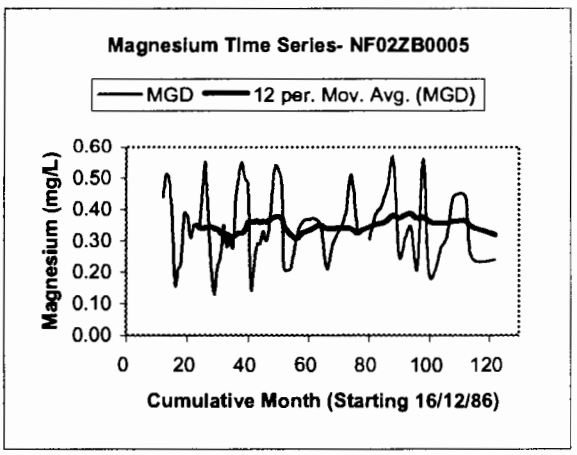


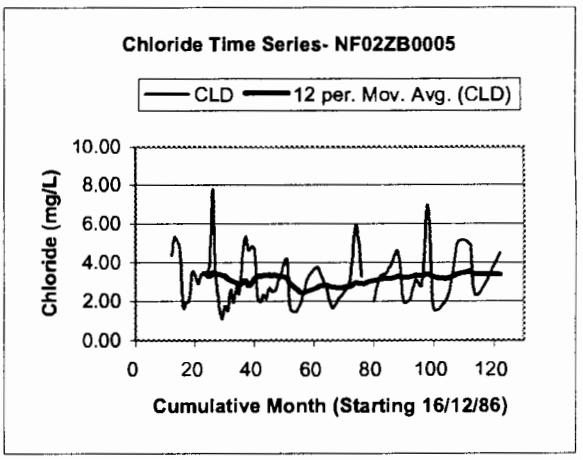

Calcium Time Series- NF02ZB0005
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

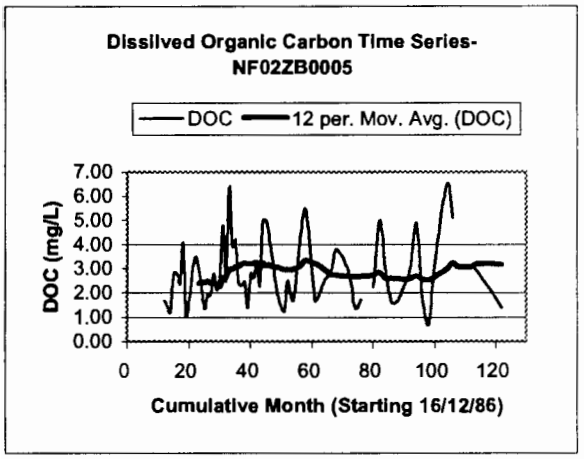

Potassium Time Series- NF02ZB0005
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

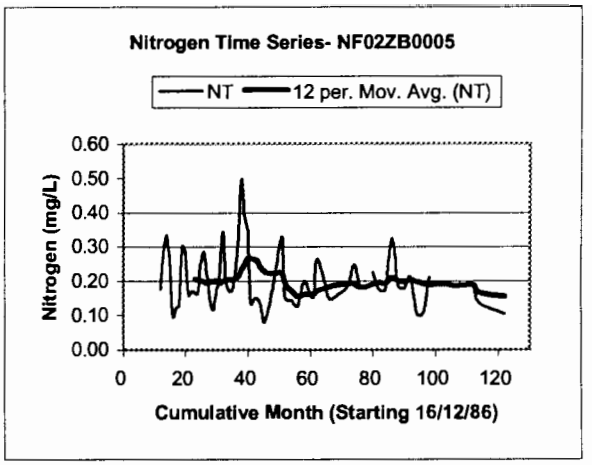

Sodium Time Series- NF02ZB0005
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

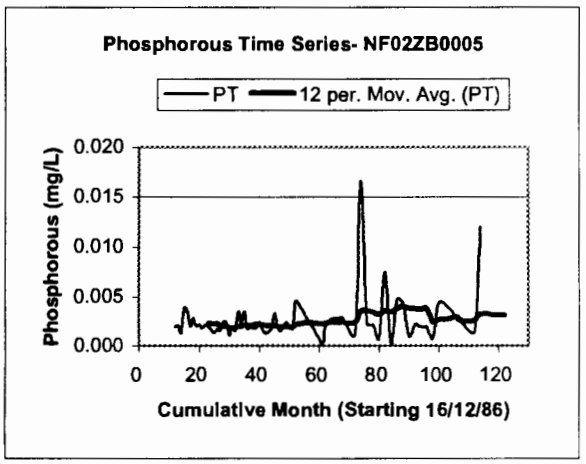

Sulphate Time Series- NF02ZB0005
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

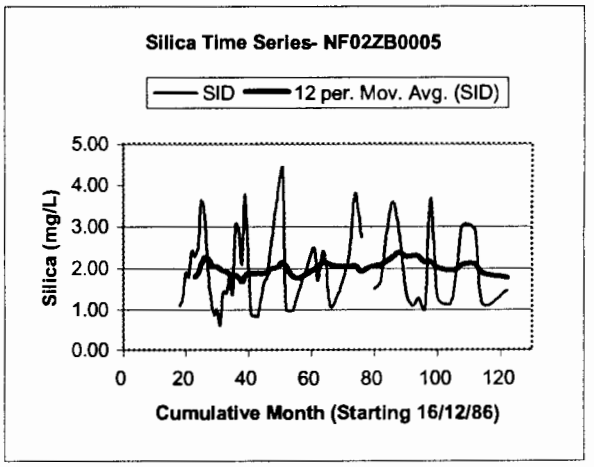

Magnesium Time Series- NF02ZB0005
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

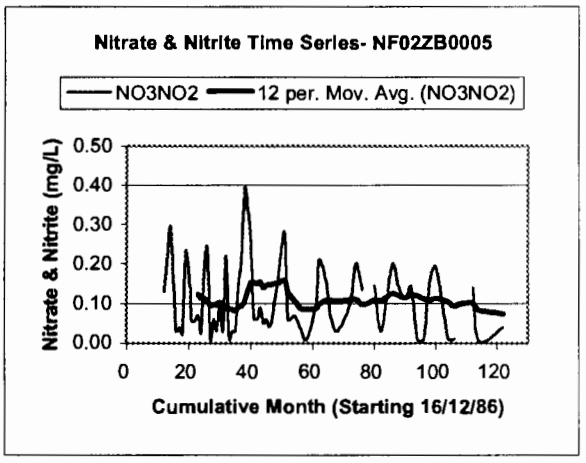

Chloride Time Series- NF02ZB0005
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

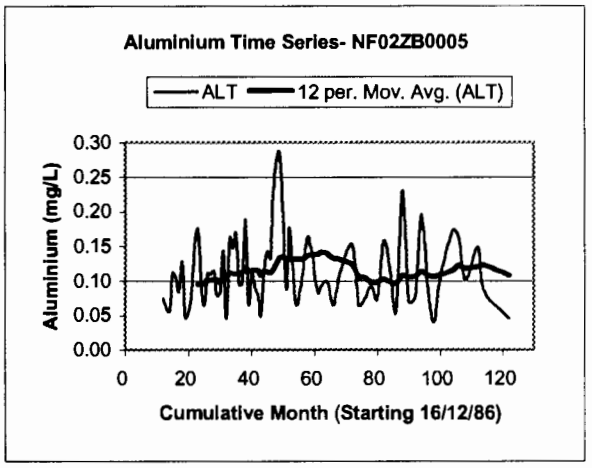

Dissolved Organic Carbon Time Series- NF02ZB0005
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

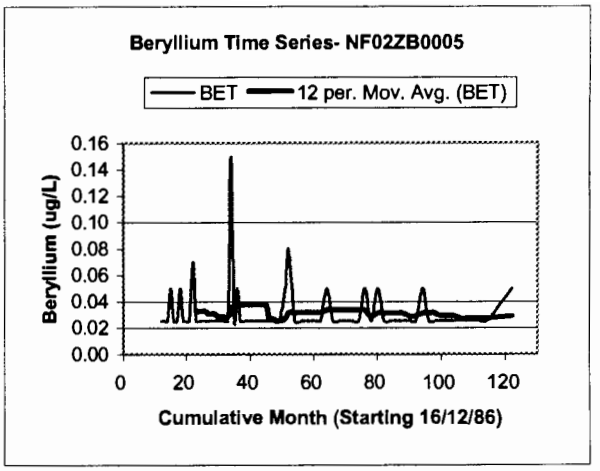

Nitrogen Time Series- NF02ZB0005
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

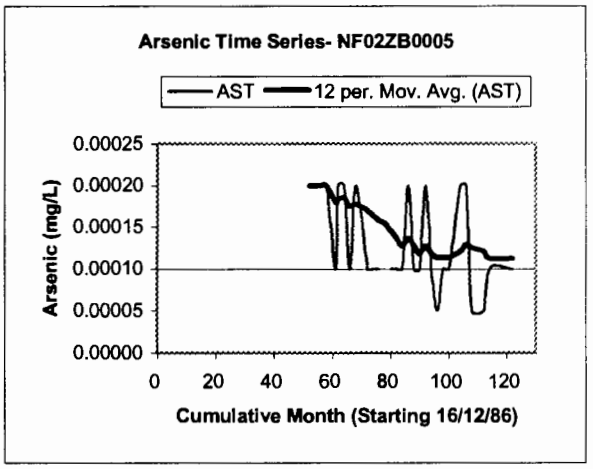

Phosphorous Time Series- NF02ZB0005
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

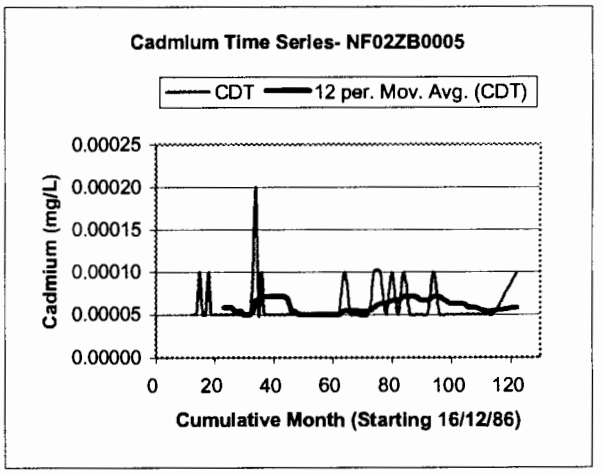

Silica Time Series- NF02ZB0005
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

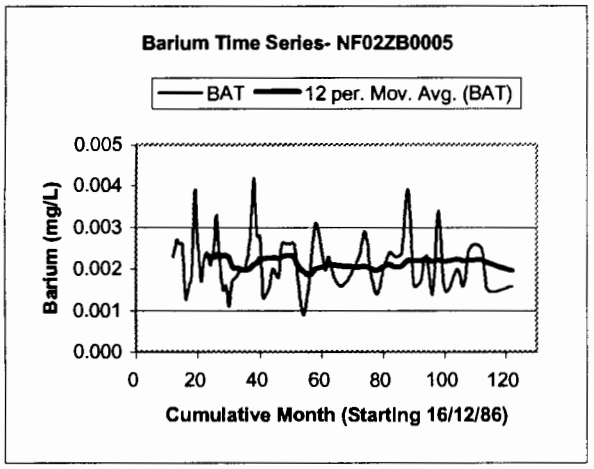

Nitrate & Nitrite Time Series- NF02ZB0005
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

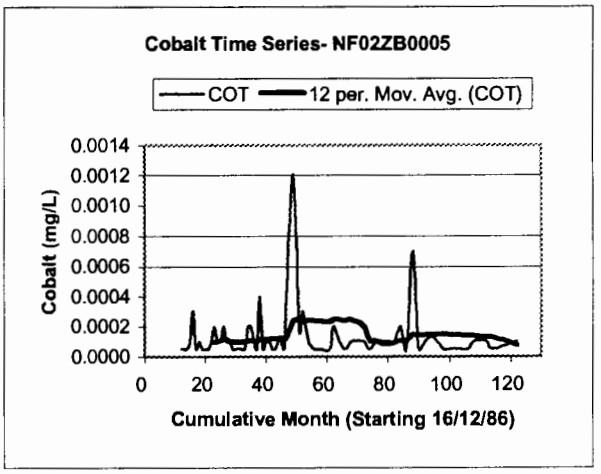

Aluminium Time Series- NF02ZB0005
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

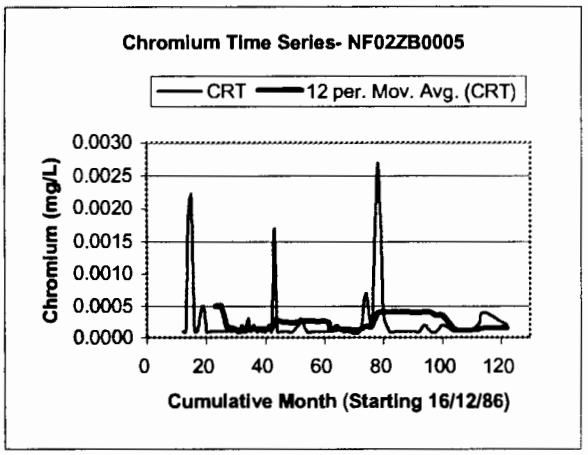

Beryllium Time Series- NF02ZB0005
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

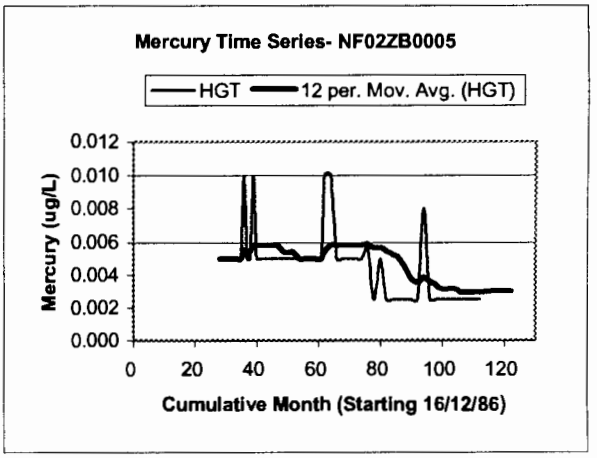

Arsenic Time Series- NF02ZB0005
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

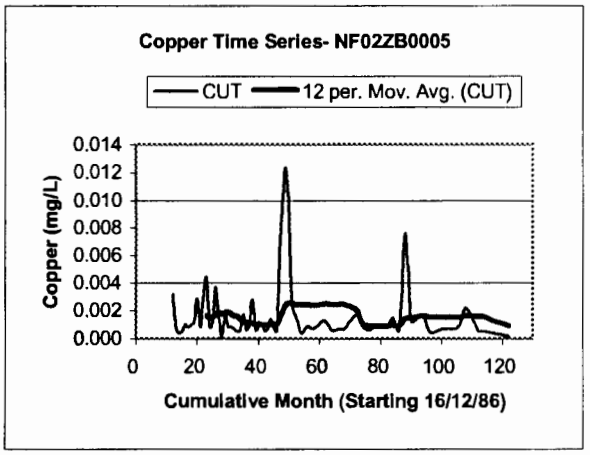

Cadmium Time Series- NF02ZB0005
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

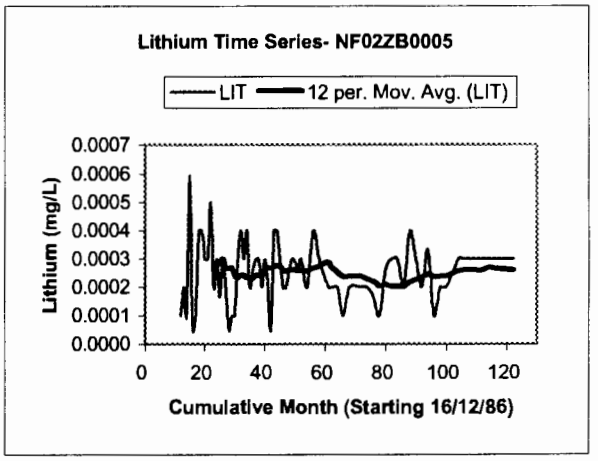

Barium Time Series- NF02ZB0005
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

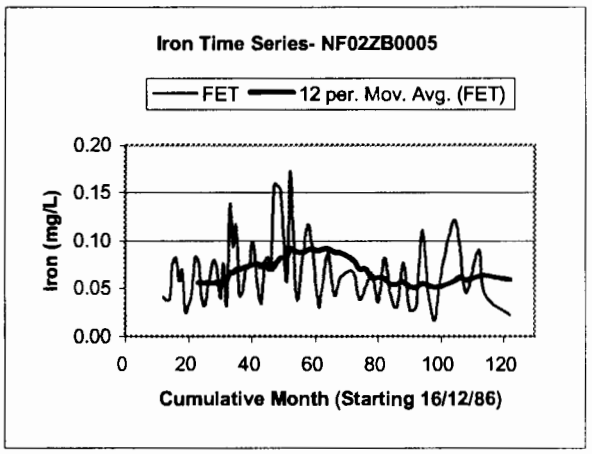

Cobalt Time Series- NF02ZB0005
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

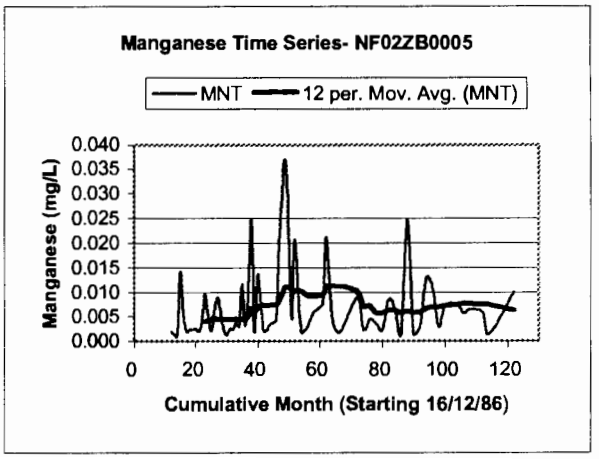

Chromium Time Series- NF02ZB0005
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

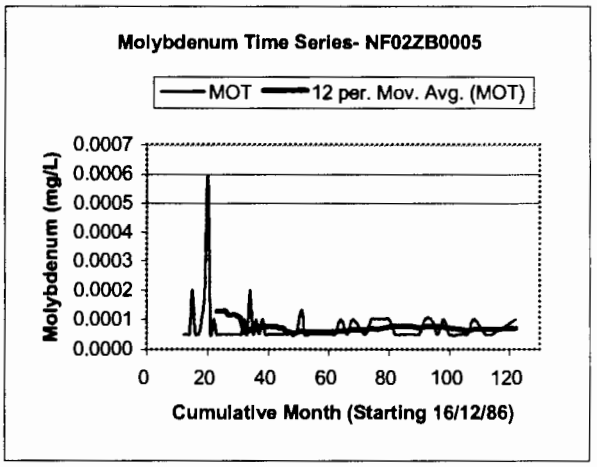

Mercury Time Series- NF02ZB0005
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

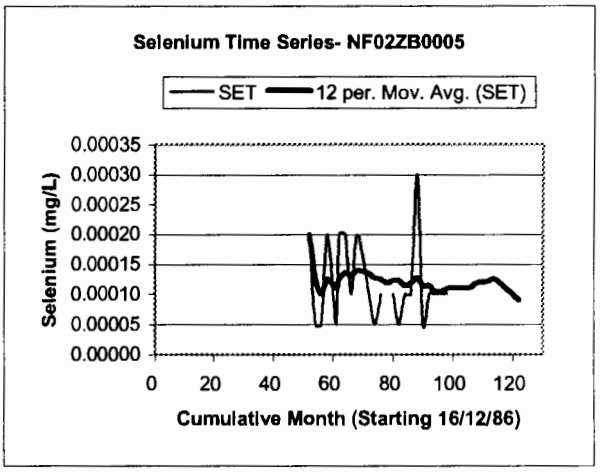

Copper Time Series- NF02ZB0005
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

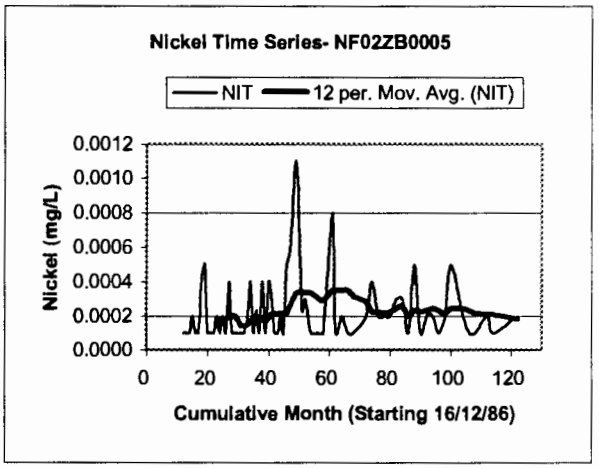

Lithium Time Series- NF02ZB0005
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

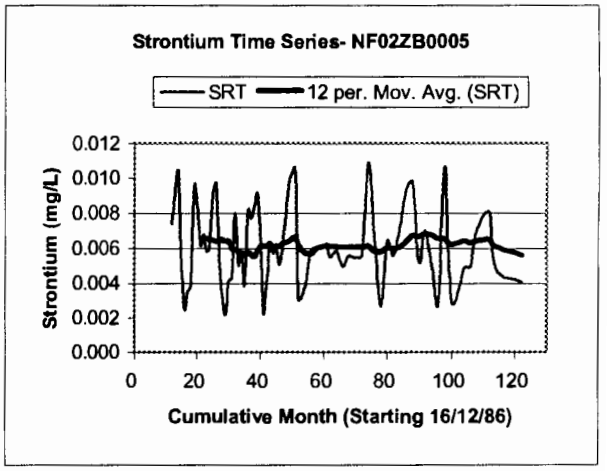

Iron Time Series- NF02ZB0005
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.20
0.15
0.10
0.05
0.00
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

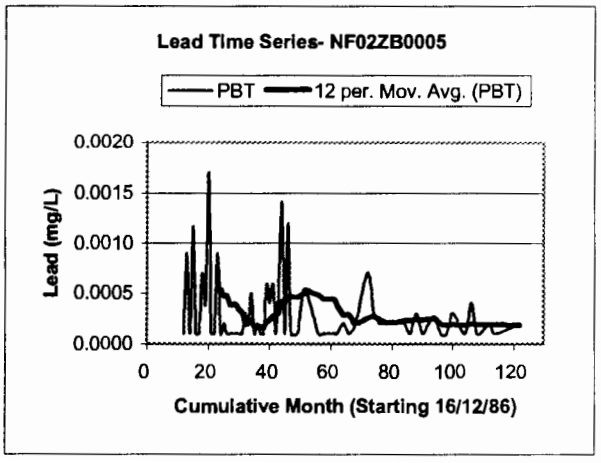

Manganese Time Series- NF02ZB0005
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

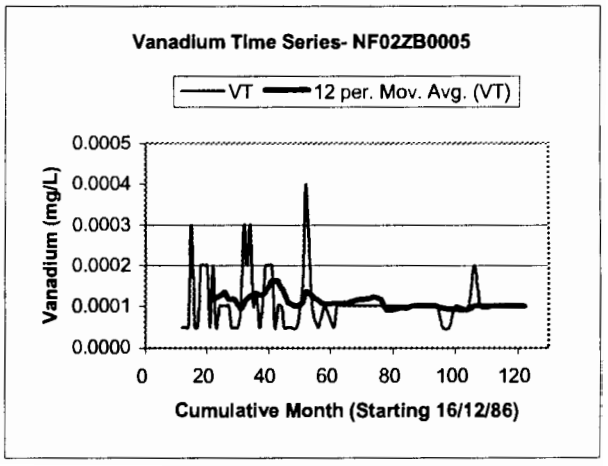

Molybdenum Time Series- NF02ZB0005
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

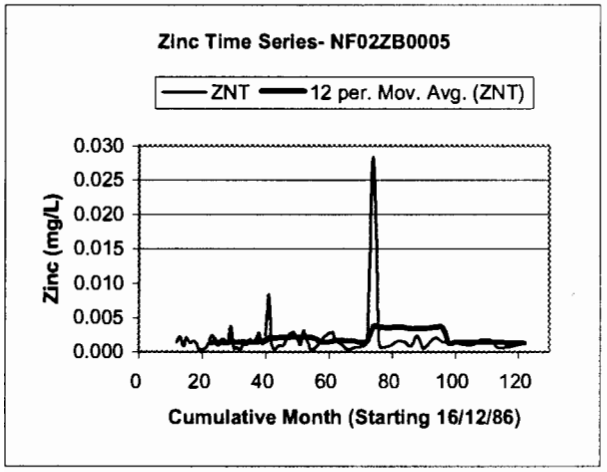

Selenium Time Series- NF02ZB0005
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)


Nickel Time Series- NF02ZB0005
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

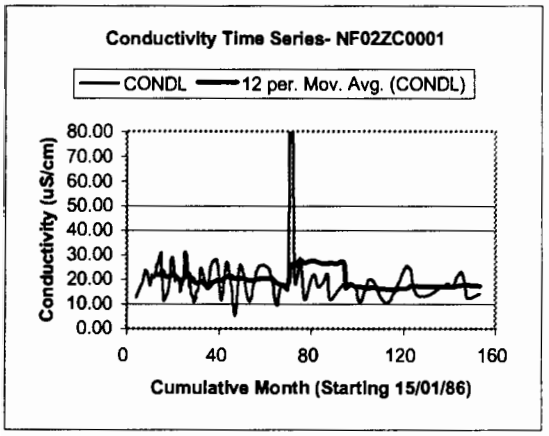

Strontium Time Series- NF02ZB0005
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

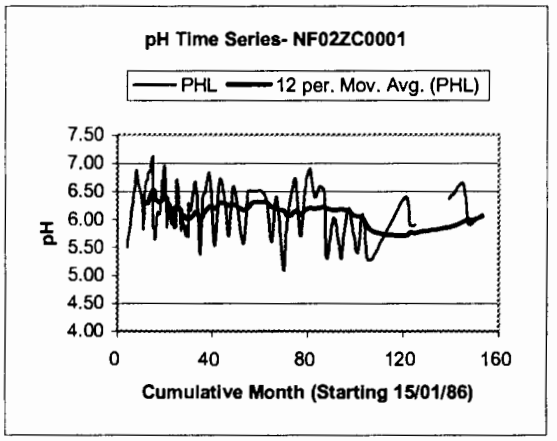

Lead Time Series- NF02ZB0005
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

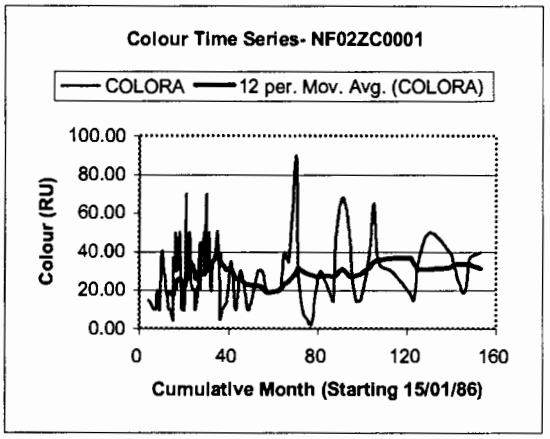

Vanadium Time Series- NF02ZB0005
VT
12 per. Mov. Avg. (VT)
Vanadium (mg/L)
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

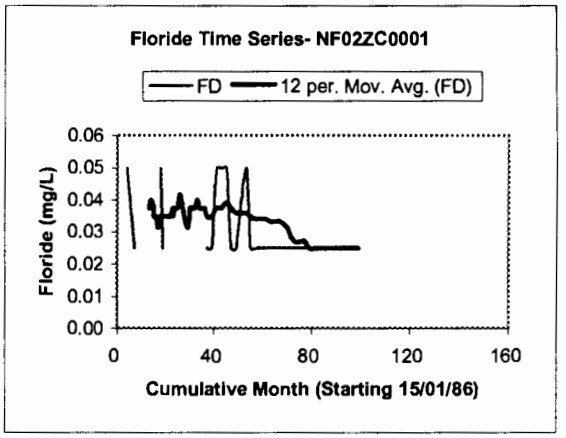

Zinc Time Series- NF02ZB0005
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
20
40
60
80
100
120
Cumulative Month (Starting 16/12/86)

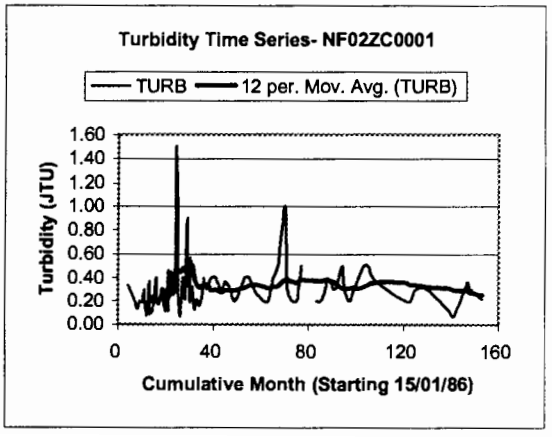
Time Series Plots of Grandy's Brook- NF02ZC0001

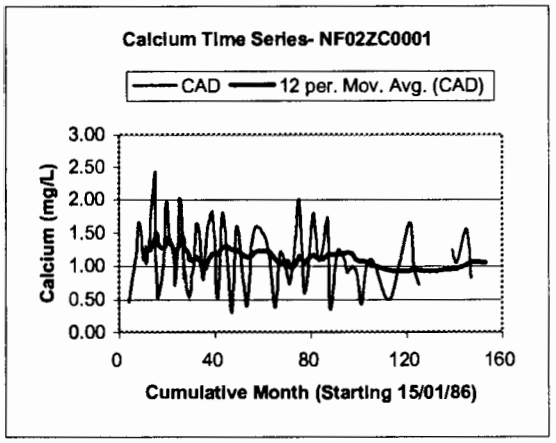


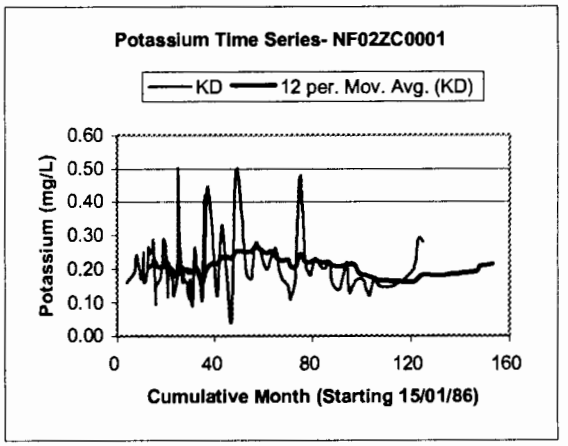


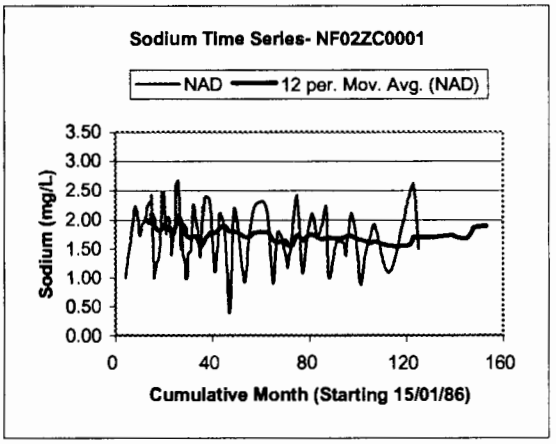


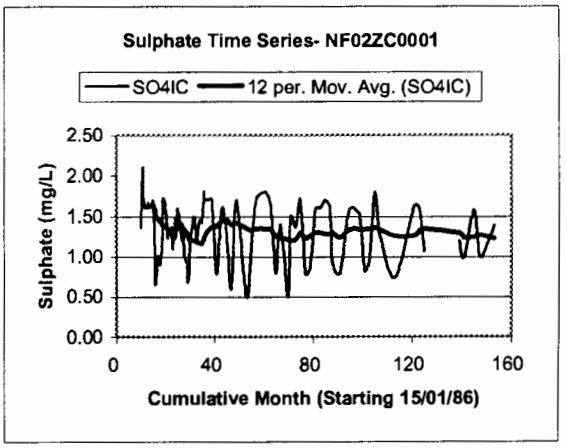


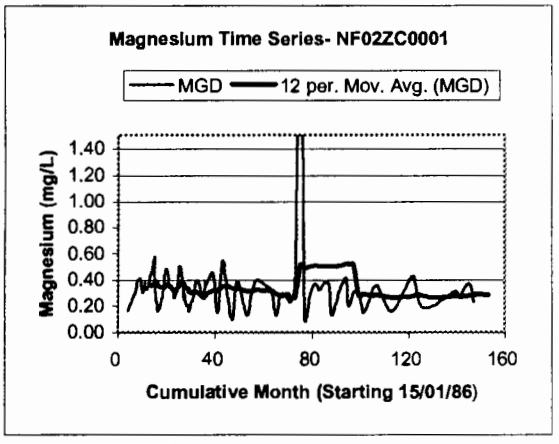


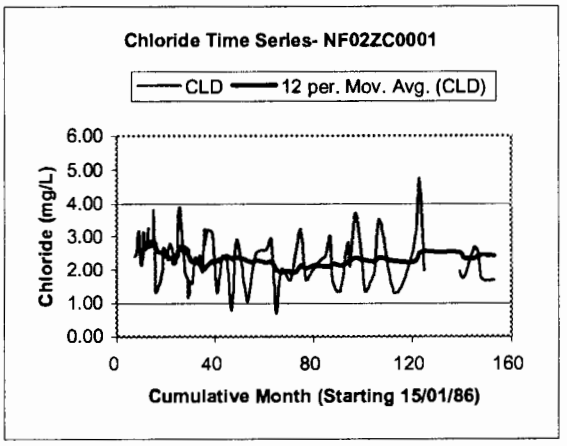

Calcium Time Series- NF02ZC0001
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

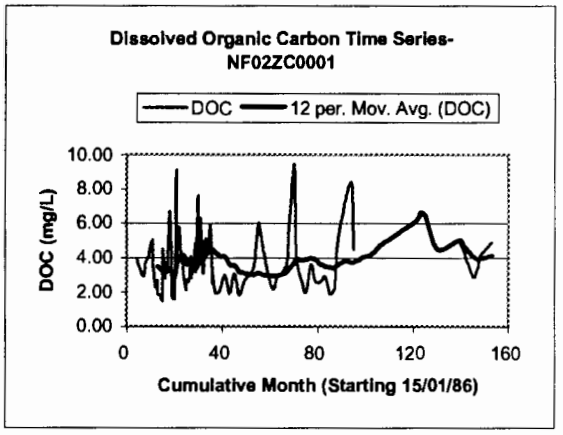

Potassium Time Series- NF02ZC0001
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

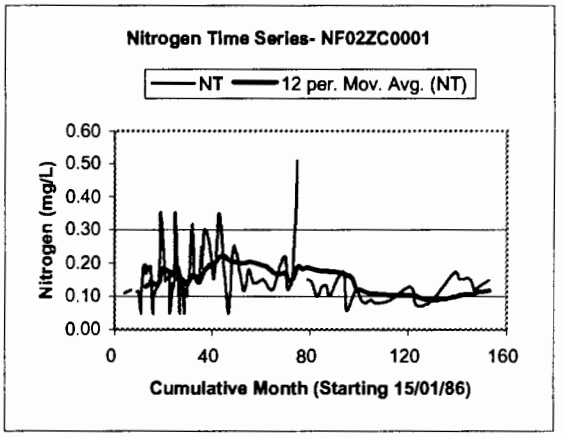

Sodium Time Series- NF02ZC0001
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

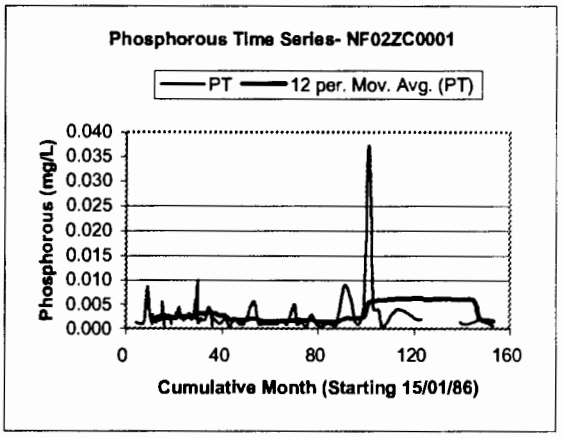

Sulphate Time Series- NF02ZC0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

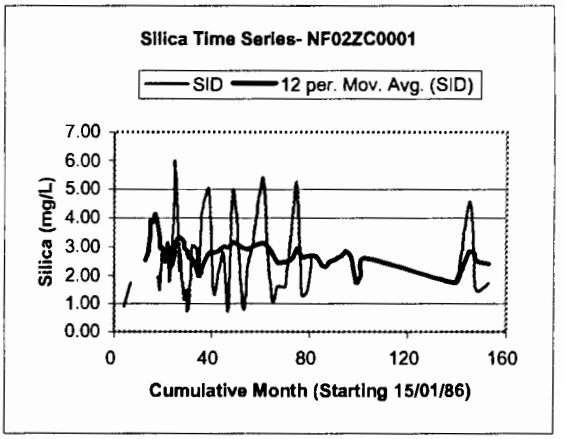

Magnesium Time Series- NF02ZC0001
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

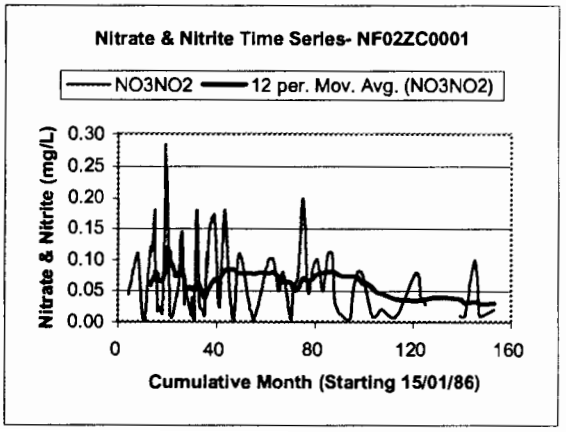

Chloride Time Series- NF02ZC0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

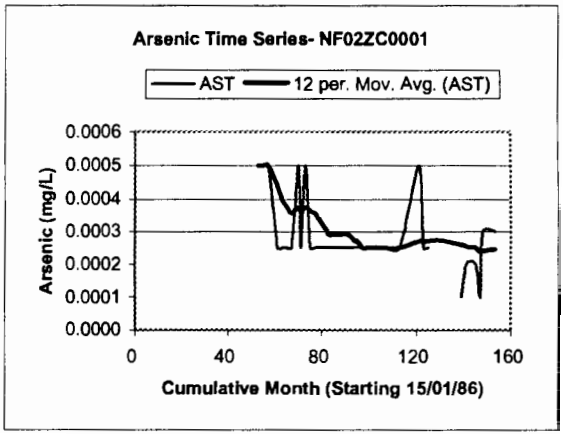

Dissolved Organic Carbon Time Series- NF02ZC0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)


Nitrogen Time Series- NF02ZC0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

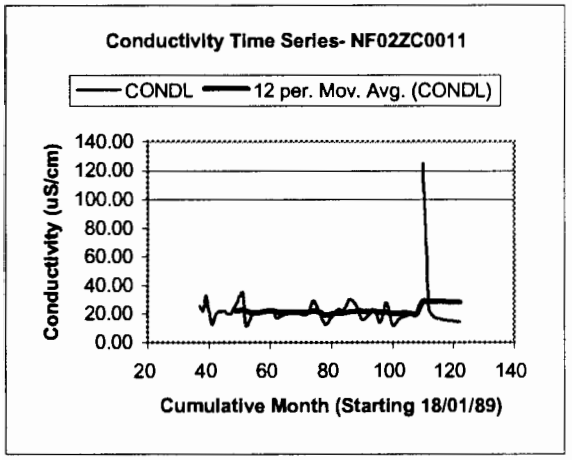

Phosphorous Time Series- NF02ZC0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

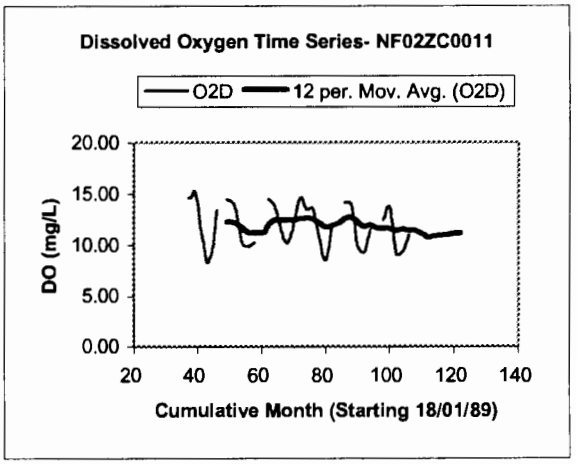

Silica Time Series- NF02ZC0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

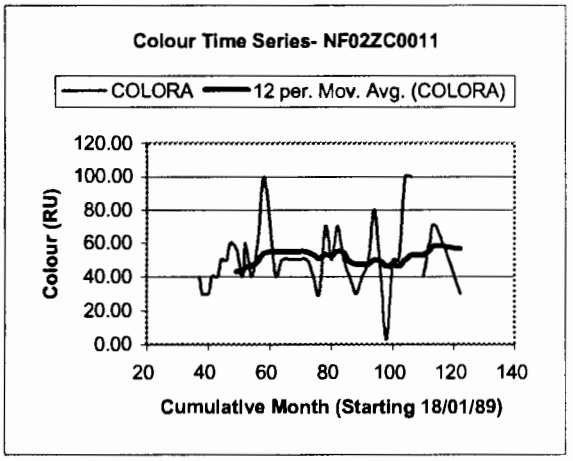

Nitrate & Nitrite Time Series- NF02ZC0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

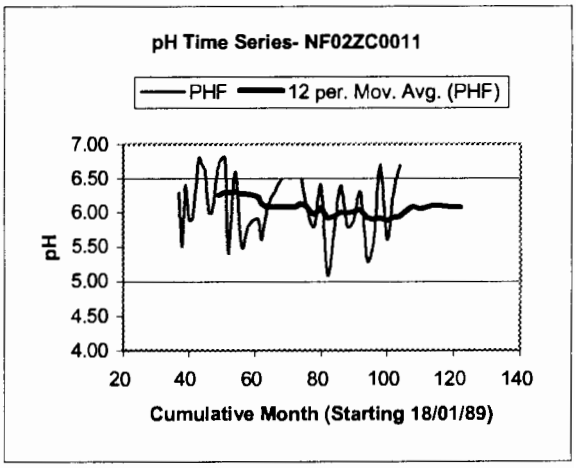

Arsenic Time Series- NF02ZC0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

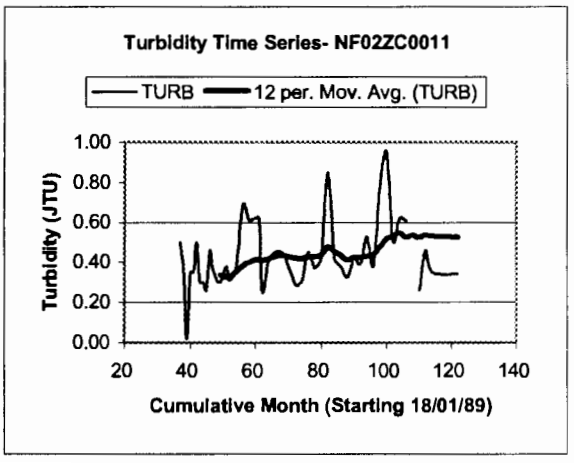
Time Series Plots of White Bear River- NF02ZC0011

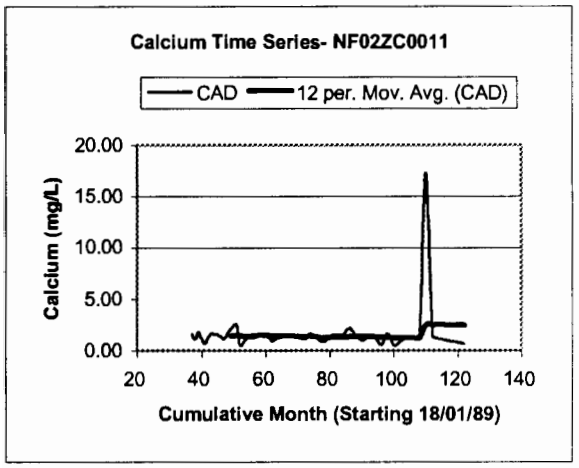


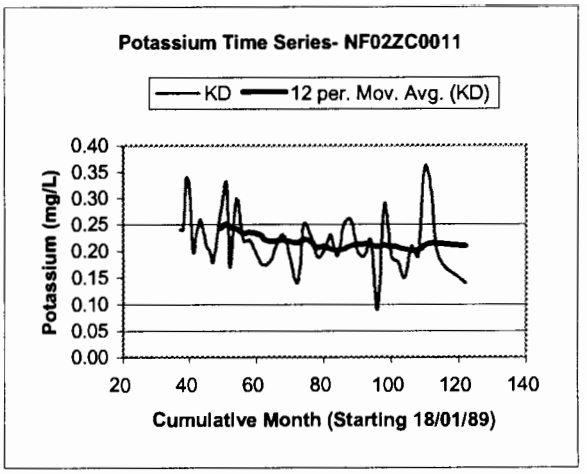


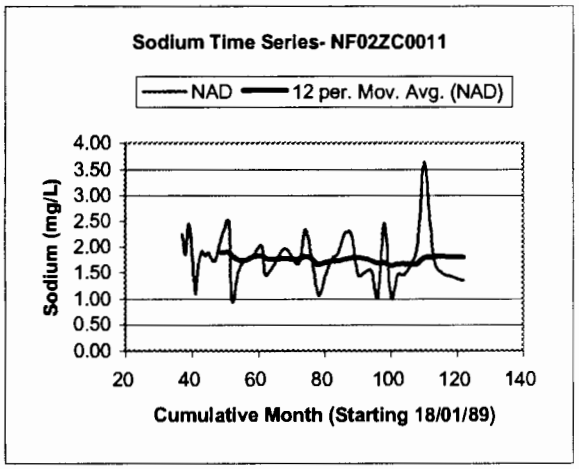


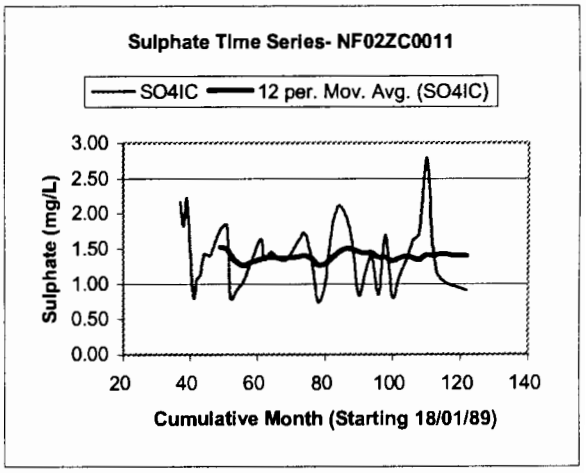


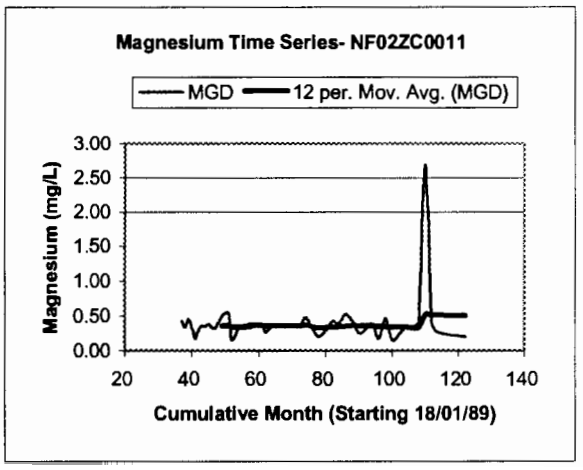


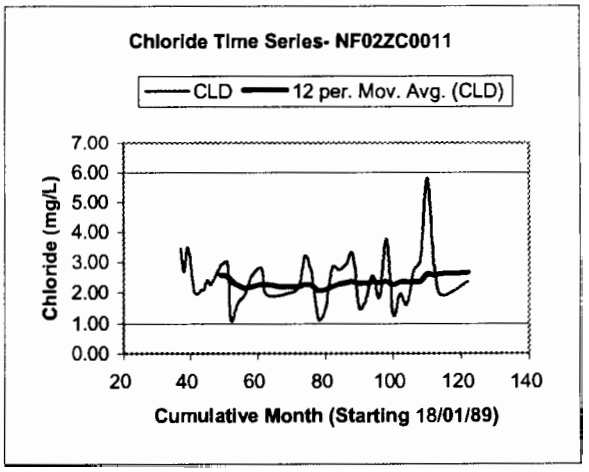

Calcium Time Series- NF02ZC0011
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
20.00
15.00
10.00
5.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

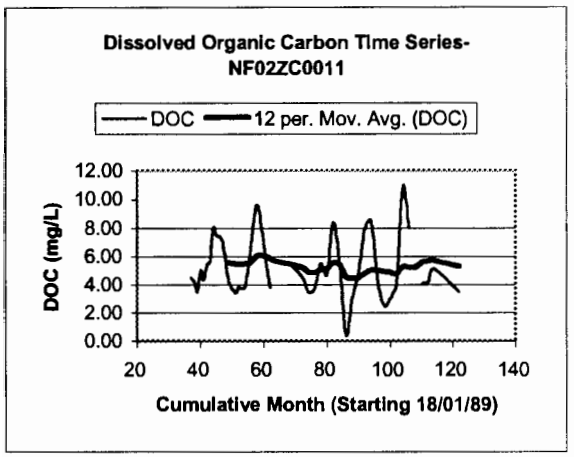

Potassium Time Series- NF02ZC0011
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

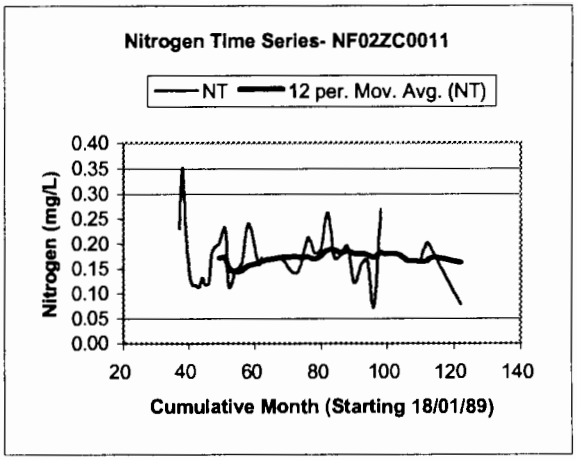

Sodium Time Series- NF02ZC0011
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

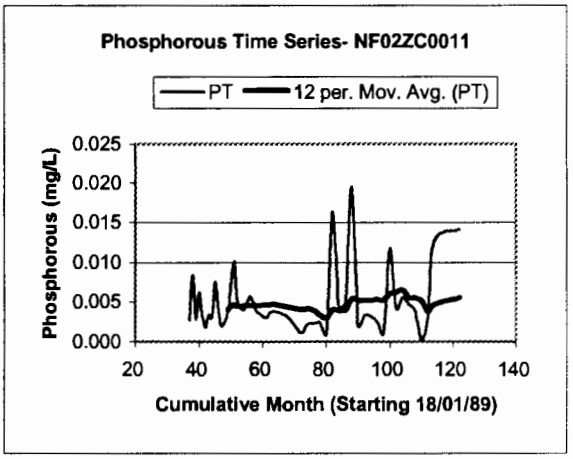

Sulphate Time Series- NF02ZC0011
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

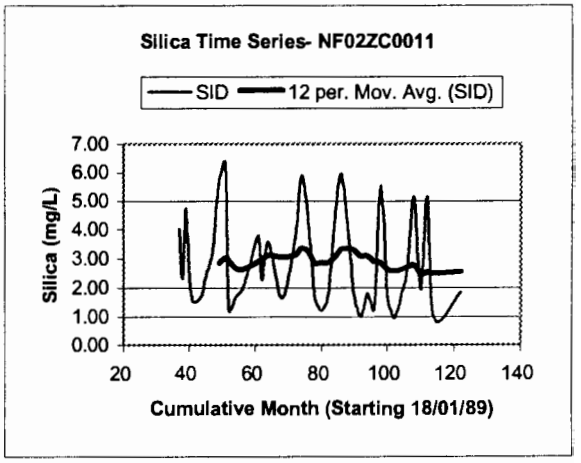

Magnesium Time Series- NF02ZC0011
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

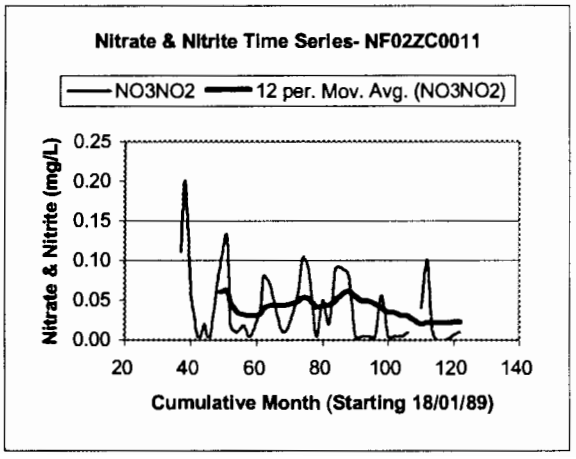

Chloride Time Series- NF02ZC0011
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

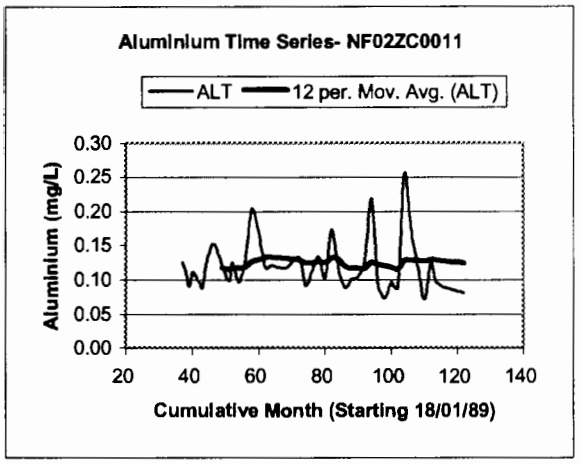

Dissolved Organic Carbon Time Series- NF02ZC0011
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
12.00
10.00
8.00
6.00
4.00
2.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

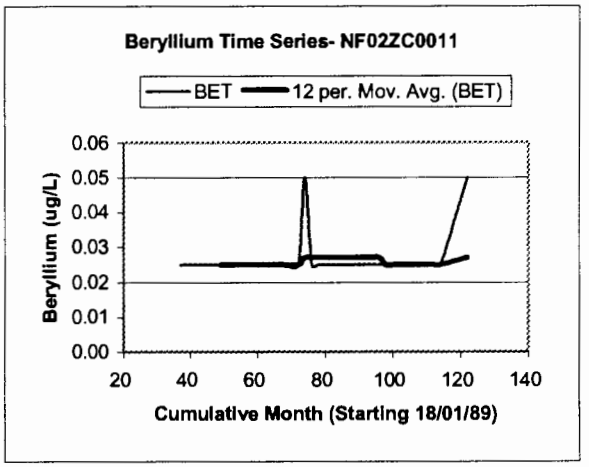

Nitrogen Time Series- NF02ZC0011
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

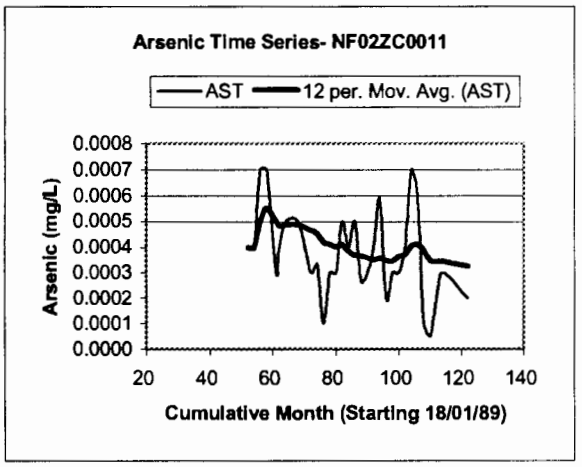

Phosphorous Time Series- NF02ZC0011
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.025
0.020
0.015
0.010
0.005
0.000
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

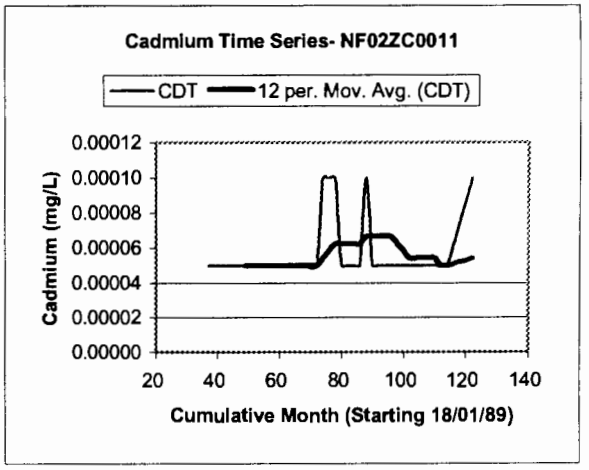

Silica Time Series- NF02ZC0011
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

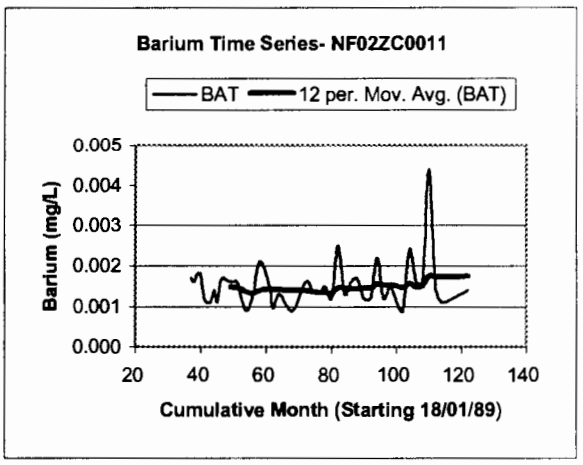

Nitrate & Nitrite Time Series- NF02ZC0011
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

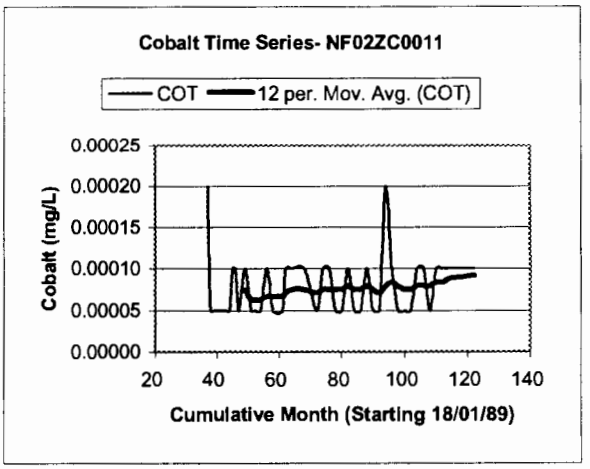

Aluminium Time Series- NF02ZC0011
ALT
12 per. Mov. Avg. (ALT)
Aluminium (mg/L)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

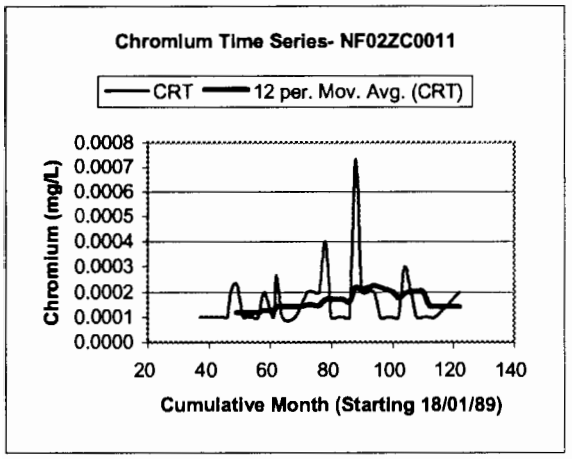

Beryllium Time Series- NF02ZC0011
BET
12 per. Mov. Avg. (BET)
Beryllium (ug/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

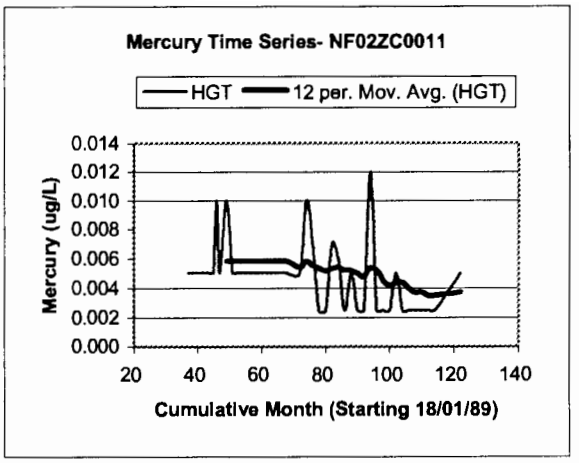

Arsenic Time Series- NF02ZC0011
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

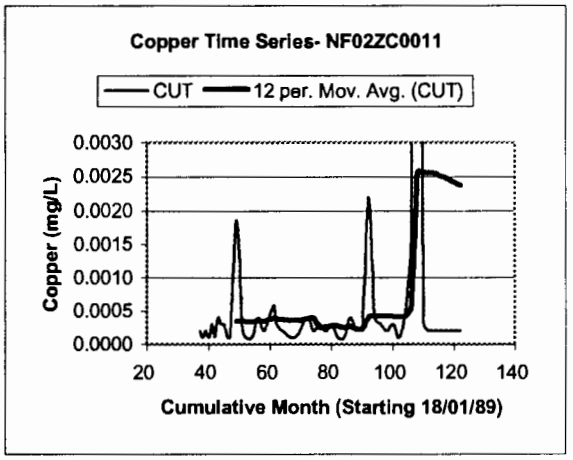

Cadmium Time Series- NF02ZC0011
CDT
12 per. Mov. Avg. (CDT)
Cadmium (mg/L)
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

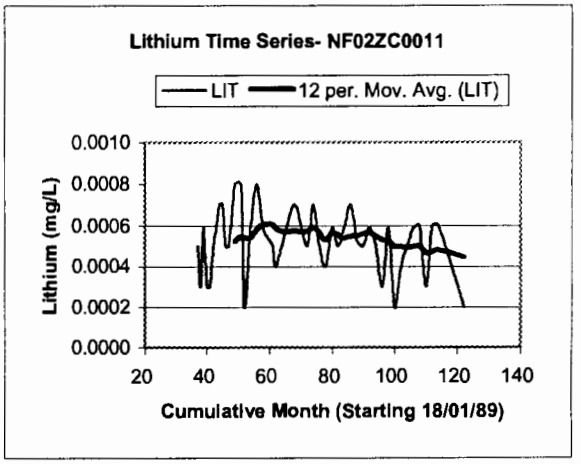

Barium Time Series- NF02ZC0011
BAT
12 per. Mov. Avg. (BAT)
Barium (mg/L)
0.005
0.004
0.003
0.002
0.001
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

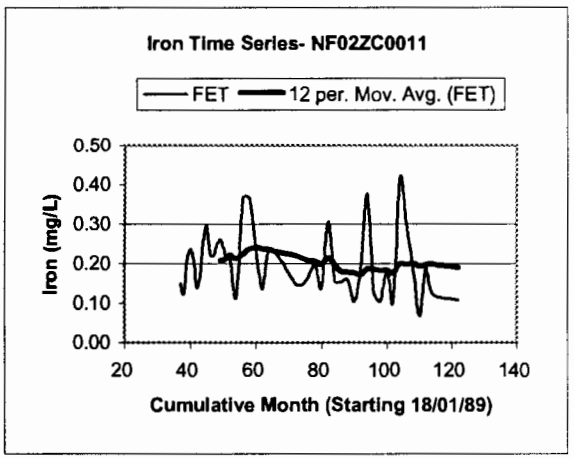

Cobalt Time Series- NF02ZC0011
COT
12 per. Mov. Avg. (COT)
Cobalt (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

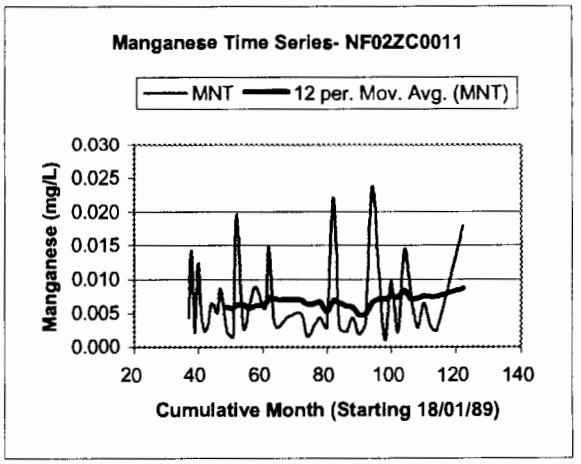

Chromium Time Series- NF02ZC0011
CRT
12 per. Mov. Avg. (CRT)
Chromium (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

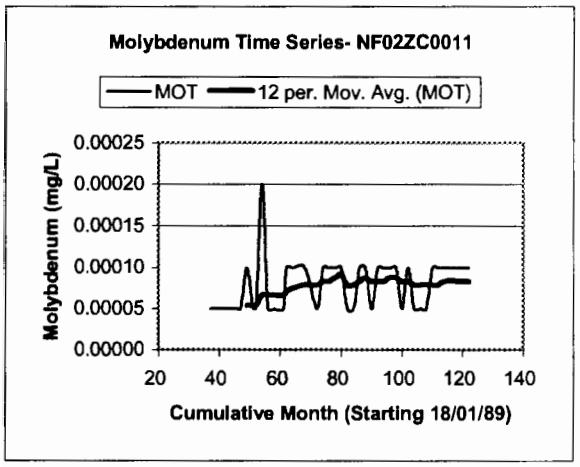

Mercury Time Series- NF02ZC0011
HGT
12 per. Mov. Avg. (HGT)
Mercury (ug/L)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

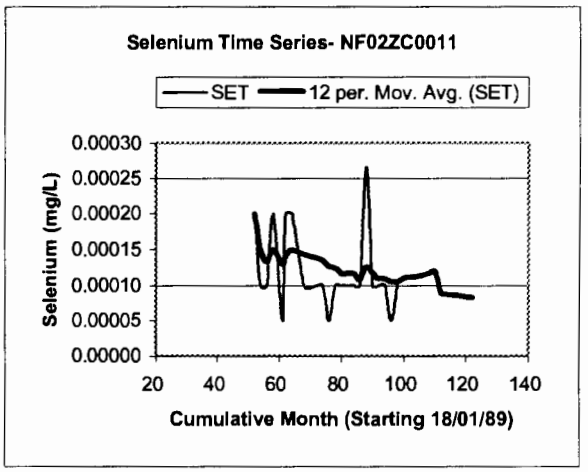

Copper Time Series- NF02ZC0011
CUT
12 per. Mov. Avg. (CUT)
Copper (mg/L)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

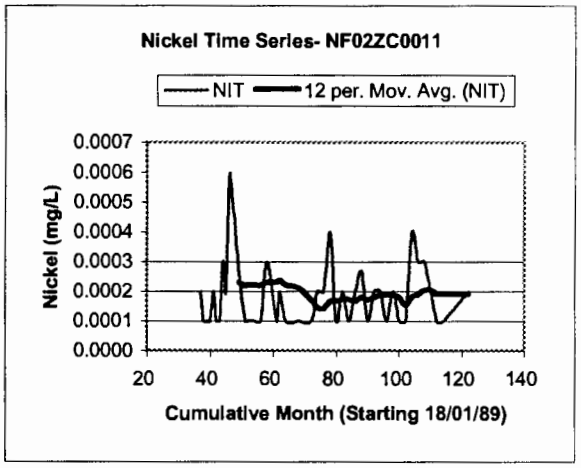

Lithium Time Series- NF02ZC0011
LIT
12 per. Mov. Avg. (LIT)
Lithium (mg/L)
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

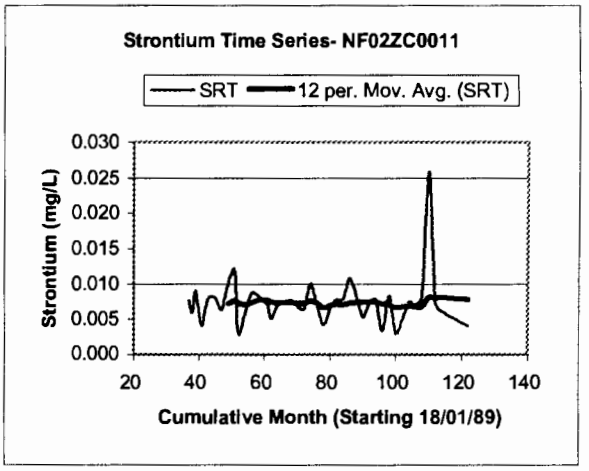

Iron Time Series- NF02ZC0011
FET
12 per. Mov. Avg. (FET)
Iron (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

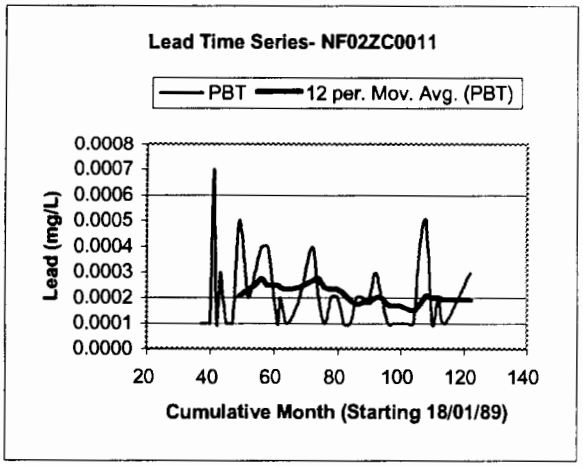

Manganese Time Series- NF02ZC0011
MNT
12 per. Mov. Avg. (MNT)
Manganese (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

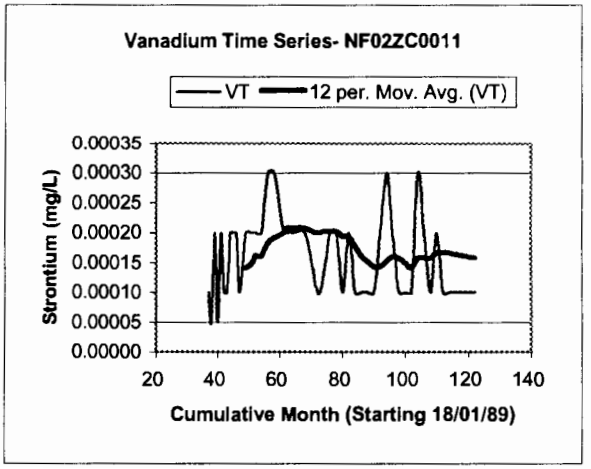

Molybdenum Time Series- NF02ZC0011
MOT
12 per. Mov. Avg. (MOT)
Molybdenum (mg/L)
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

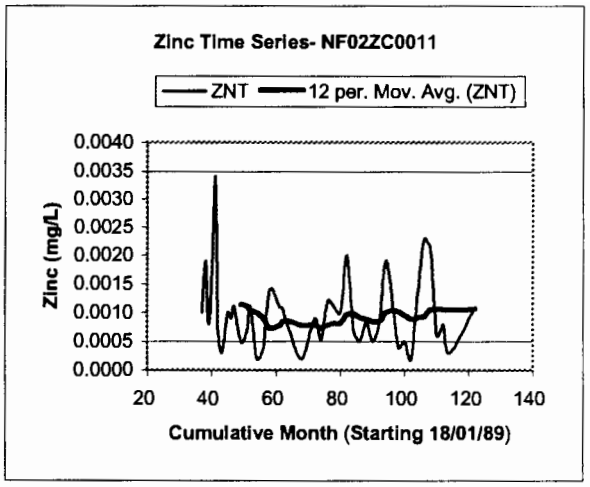

Selenium Time Series- NF02ZC0011
SET
12 per. Mov. Avg. (SET)
Selenium (mg/L)
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)


Nickel Time Series- NF02ZC0011
NIT
12 per. Mov. Avg. (NIT)
Nickel (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

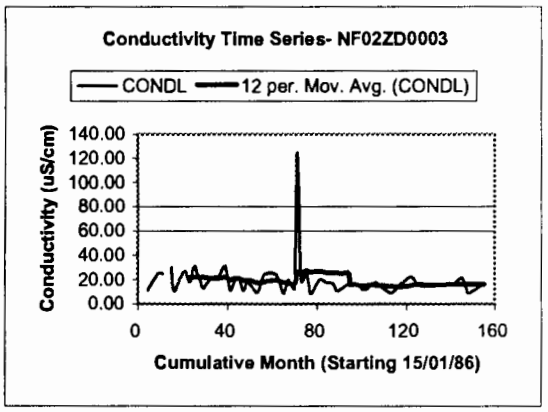

Strontium Time Series- NF02ZC0011
SRT
12 per. Mov. Avg. (SRT)
Strontium (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

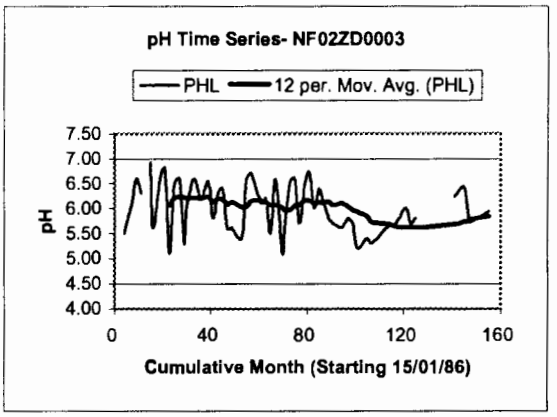

Lead Time Series- NF02ZC0011
PBT
12 per. Mov. Avg. (PBT)
Lead (mg/L)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

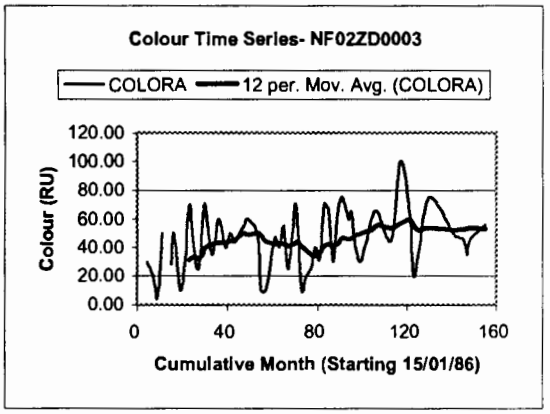

Vanadium Time Series- NF02ZC0011
VT
12 per. Mov. Avg. (VT)
Strontium (mg/L)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
20 40 60 80 100 120 140
Cumulative Month (Starting 18/01/89)

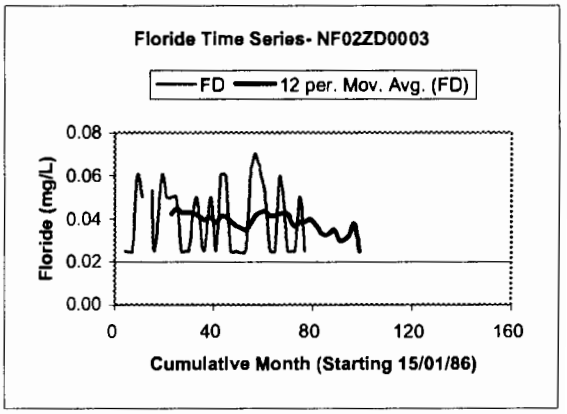

Zinc Time Series- NF02ZC0011
ZNT
12 per. Mov. Avg. (ZNT)
Zinc (mg/L)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
20
40
60
80
100
120
140
Cumulative Month (Starting 18/01/89)

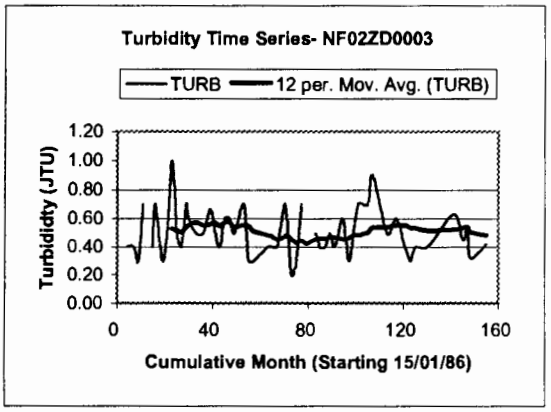
Time Series Plotss of Grey River- NF02ZD0003

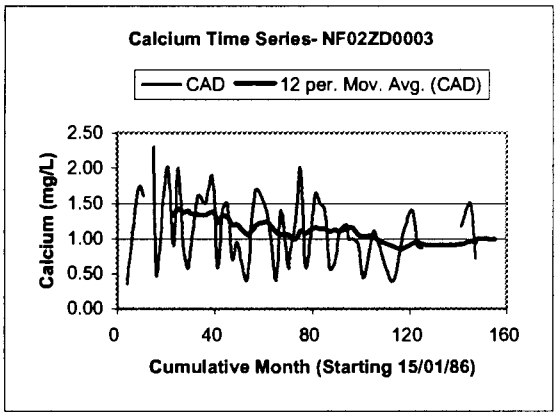


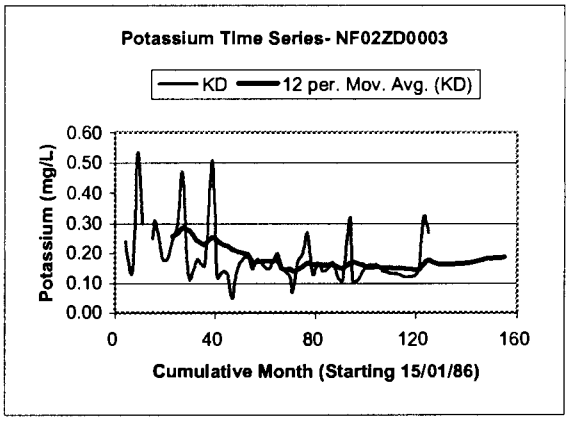


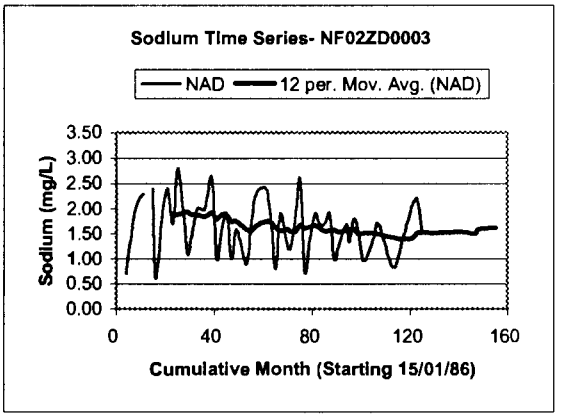


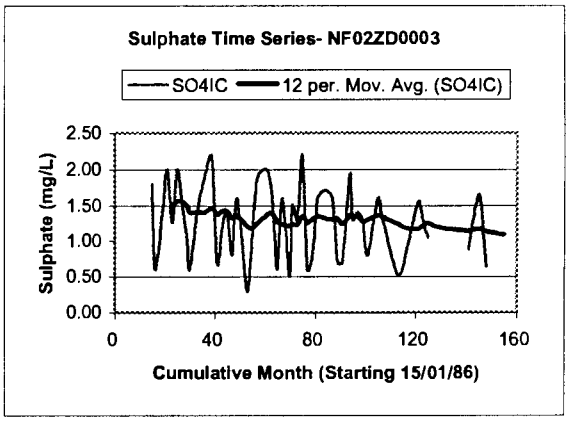


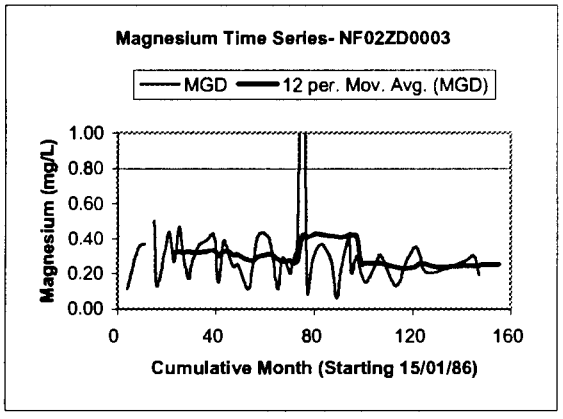


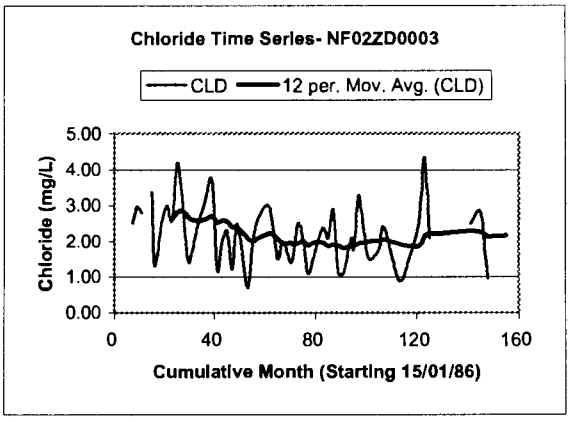

Calcium Time Series- NF02ZD0003
CAD
12 per. Mov. Avg. (CAD)
Calcium (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

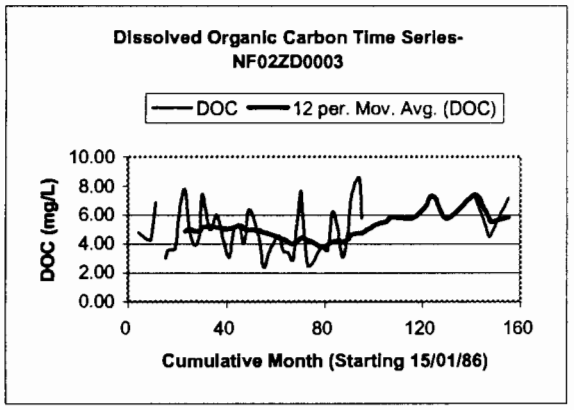

Potassium Time Series- NF02ZD0003
KD
12 per. Mov. Avg. (KD)
Potassium (mg/L)
0.60
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

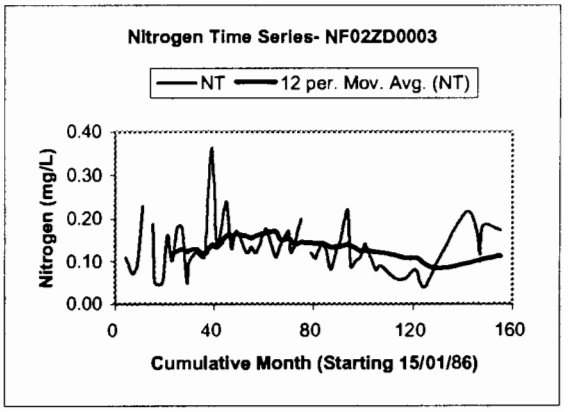

Sodium Time Series- NF02ZD0003
NAD
12 per. Mov. Avg. (NAD)
Sodium (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

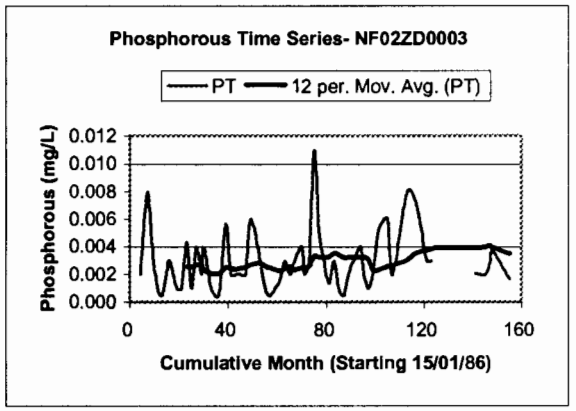

Sulphate Time Series- NF02ZD0003
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

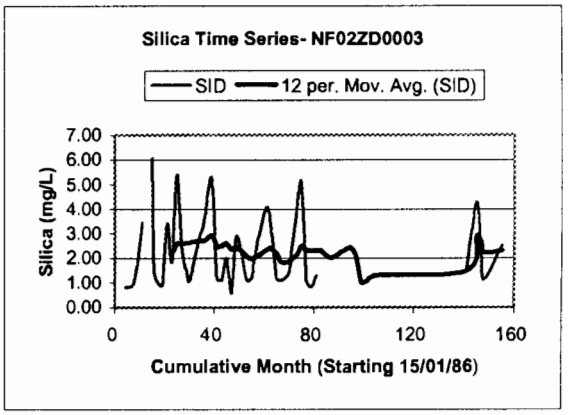

Magnesium Time Series- NF02ZD0003
MGD
12 per. Mov. Avg. (MGD)
Magnesium (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

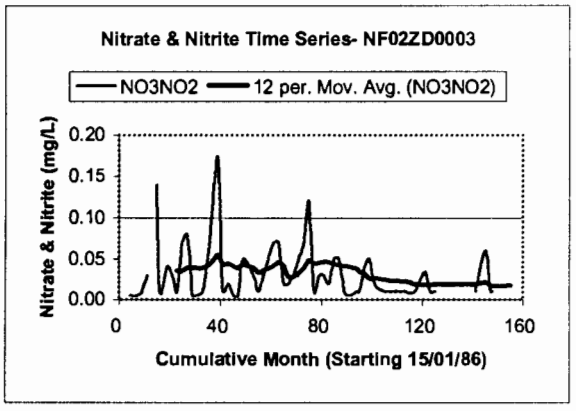

Chloride Time Series- NF02ZD0003
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

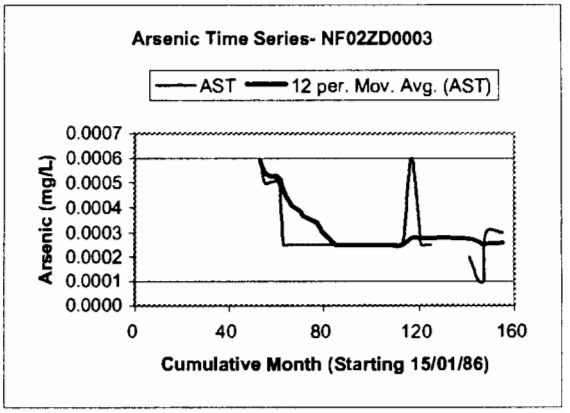

Dissolved Organic Carbon Time Series- NF02ZD0003
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)


Nitrogen Time Series- NF02ZD0003
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

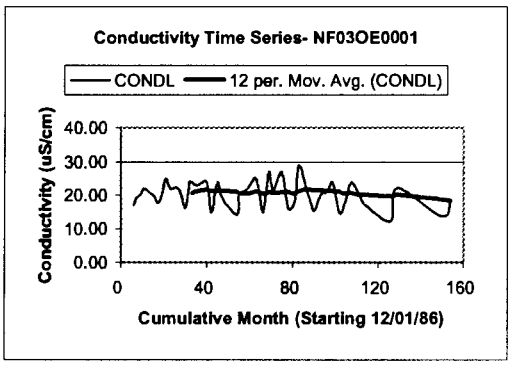

Phosphorous Time Series- NF02ZD0003
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

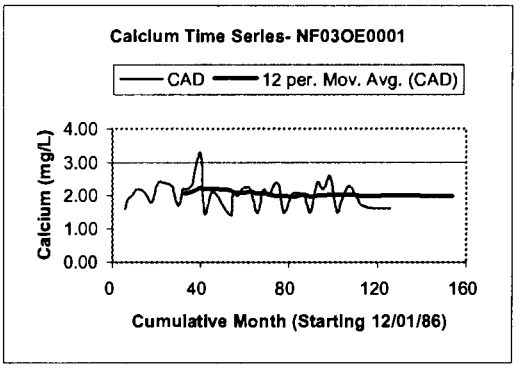

Silica Time Series- NF02ZD0003
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

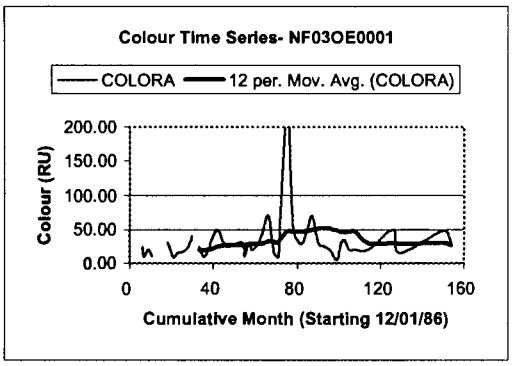

Nitrate & Nitrite Time Series- NF02ZD0003
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

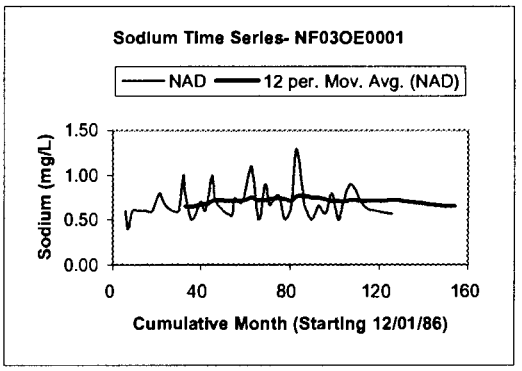

Arsenic Time Series- NF02ZD0003
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
0
40
80
120
160
Cumulative Month (Starting 15/01/86)

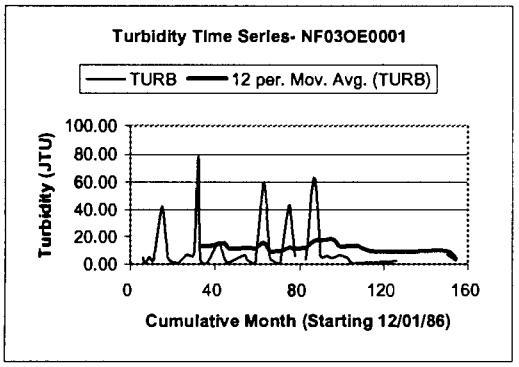
Time Series Plots of Churchill River- NF03OE0001

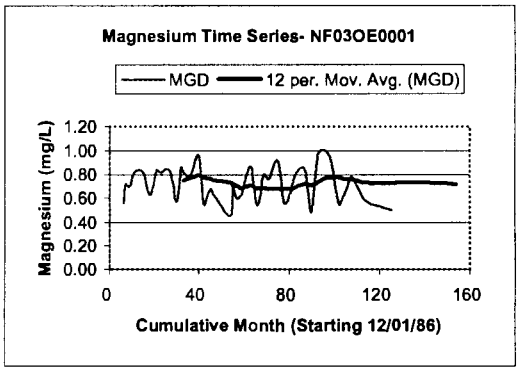


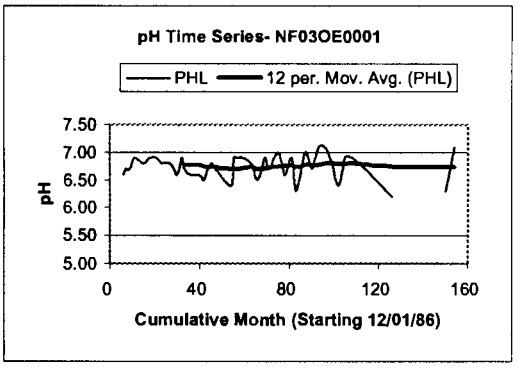


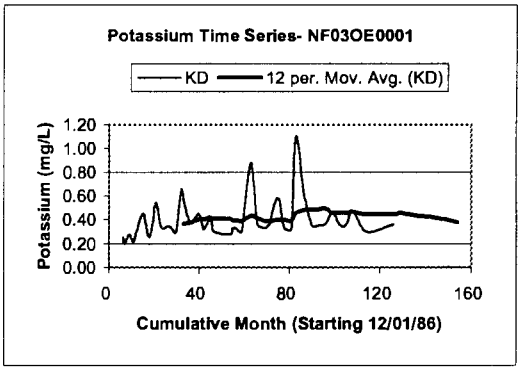


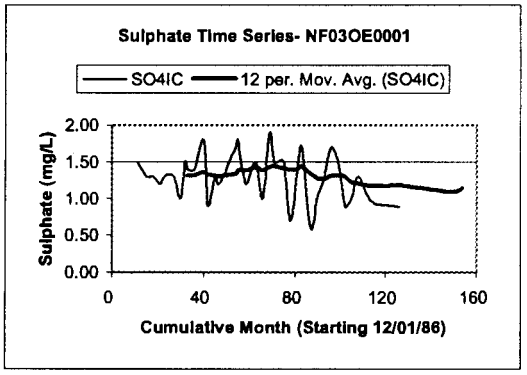


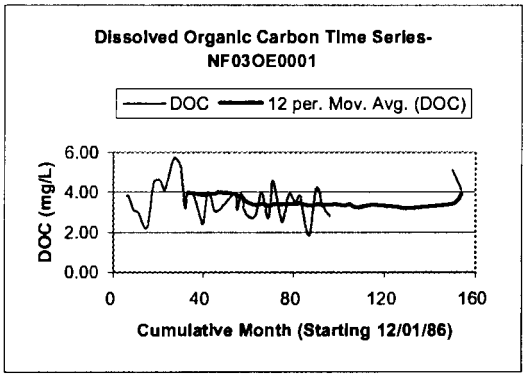


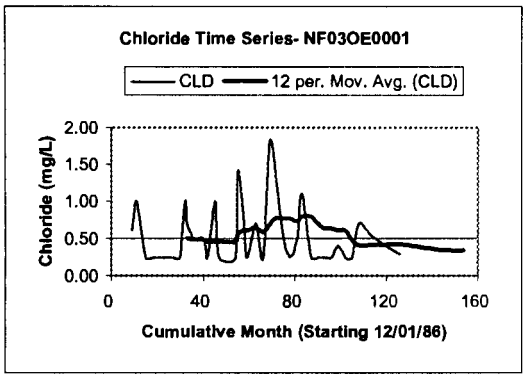


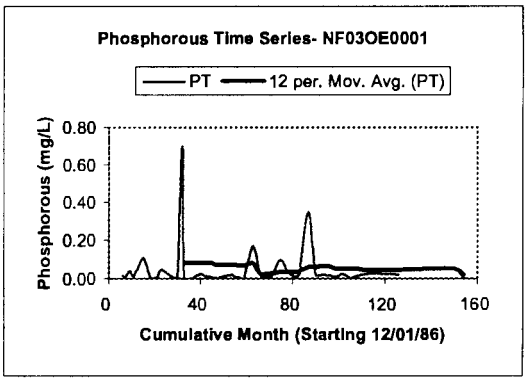


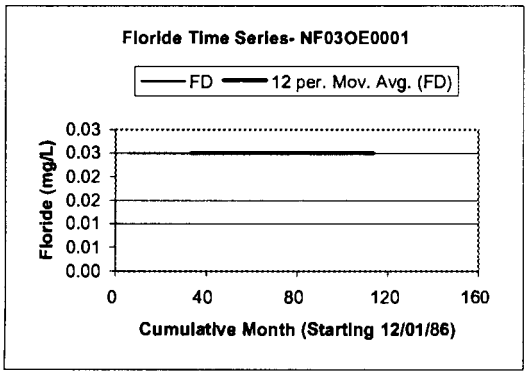


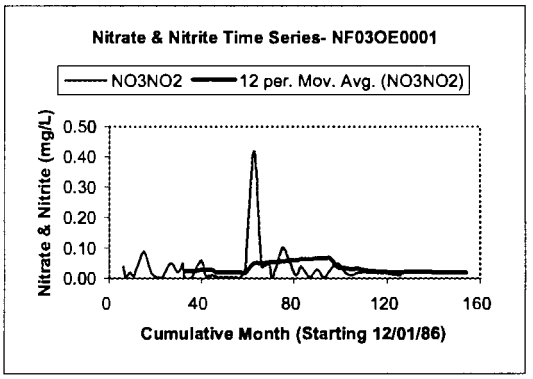

Sulphate Time Series- NF03OE0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

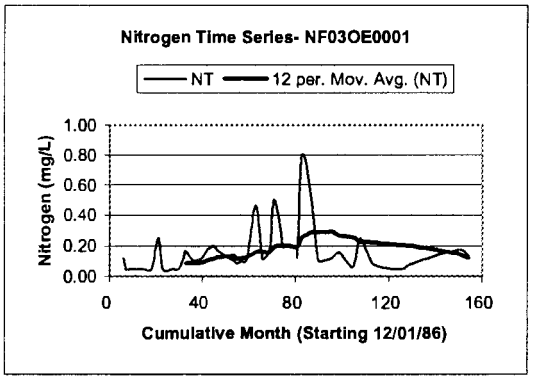

Dissolved Organic Carbon Time Series- NF03OE0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

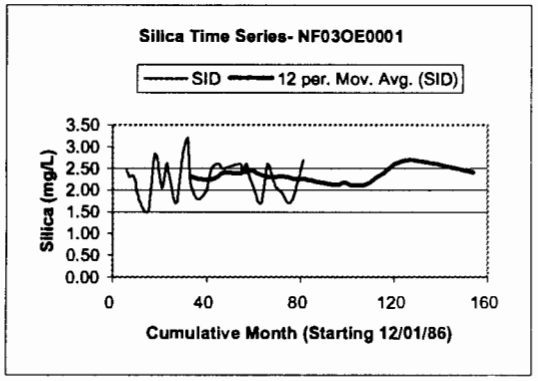

Chloride Time Series- NF03OE0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

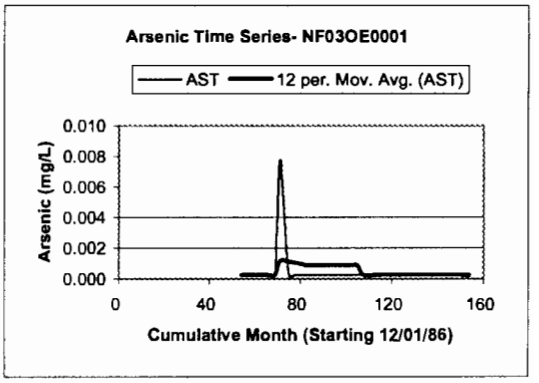

Phosphorous Time Series- NF03OE0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)


Floride Time Series- NF03OE0001
FD
12 per. Mov. Avg. (FD)
Floride (mg/L)
0.03
0.03
0.02
0.02
0.01
0.01
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

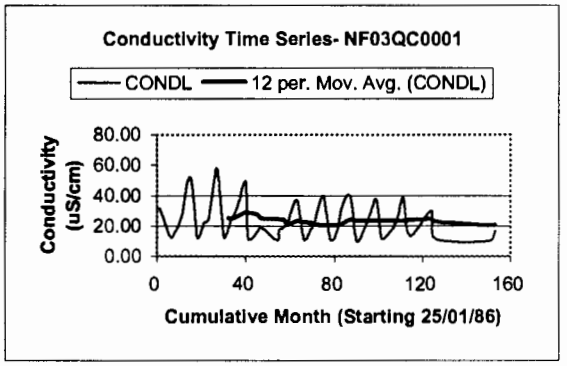

Nitrate & Nitrite Time Series- NF03OE0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.50
0.40
0.30
0.20
0.10
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

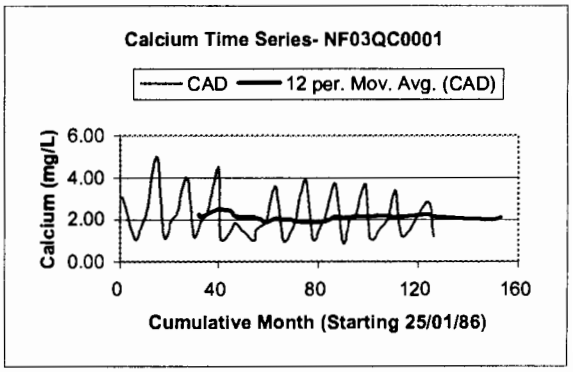

Nitrogen Time Series- NF03OE0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

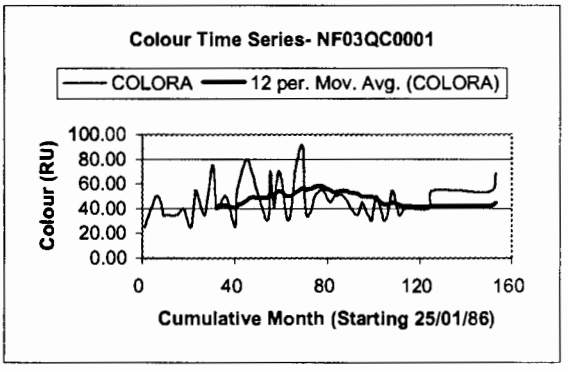

Silica Time Series- NF03OE0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

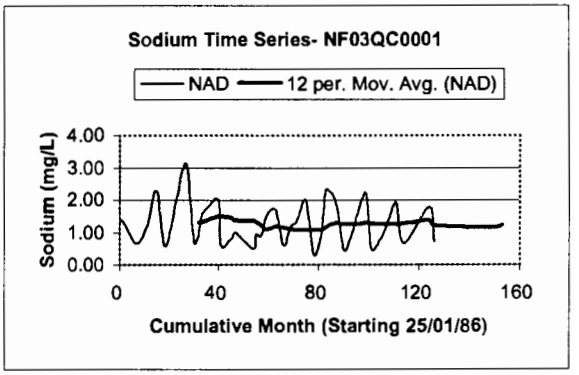

Arsenic Time Series- NF03OE0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.010
0.008
0.006
0.004
0.002
0.000
0
40
80
120
160
Cumulative Month (Starting 12/01/86)

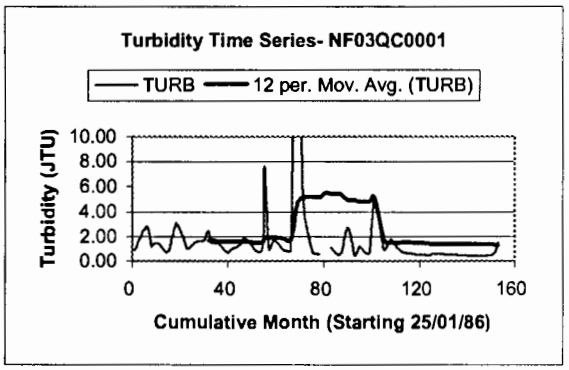
Time Series Plots of Eagle River- NF03QC0001

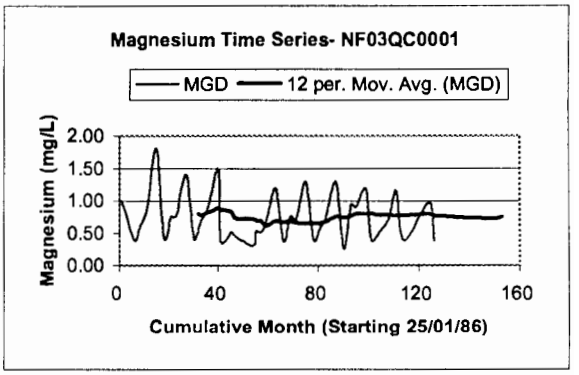


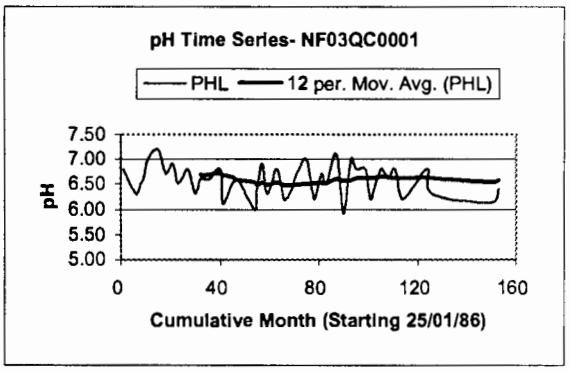


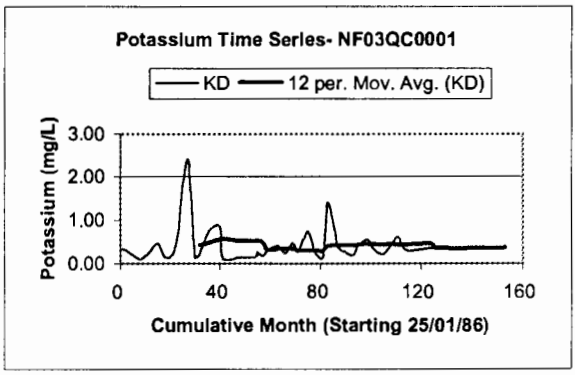


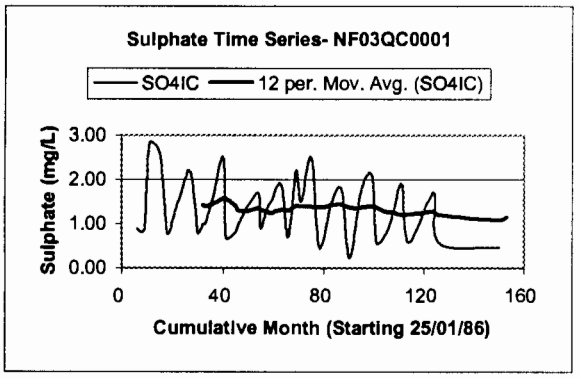


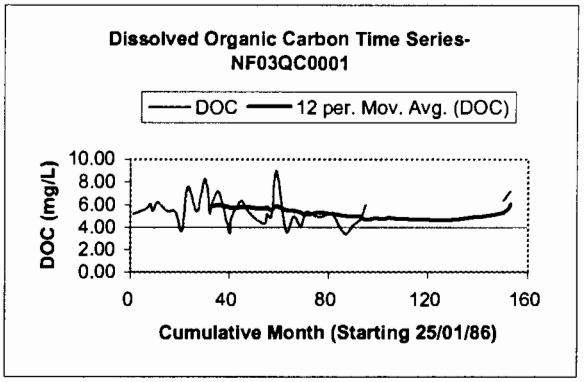


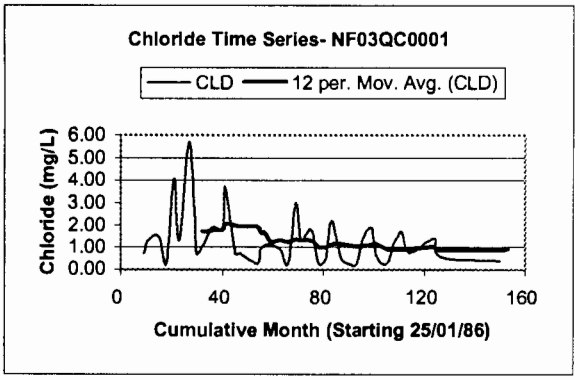


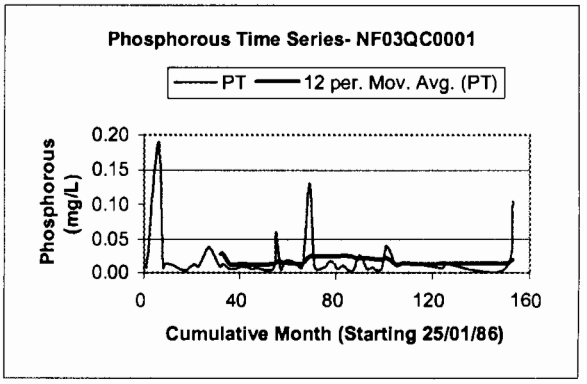


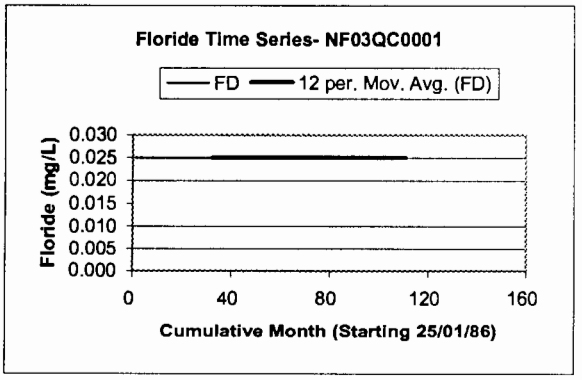


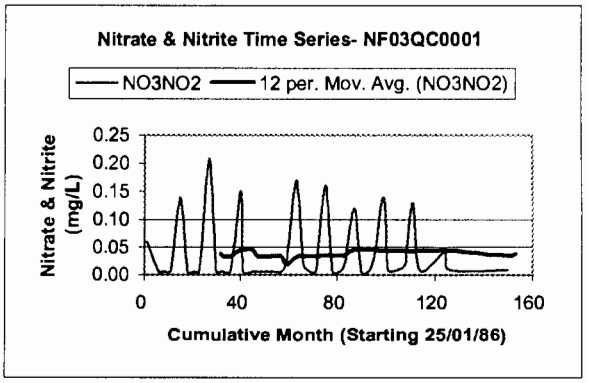

Sulphate Time Series- NF03QC0001
SO4IC
12 per. Mov. Avg. (SO4IC)
Sulphate (mg/L)
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)

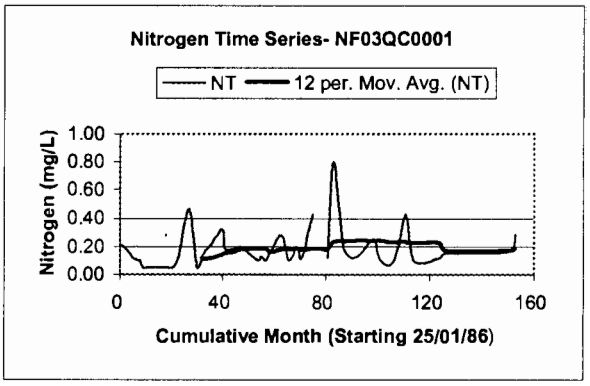

Dissolved Organic Carbon Time Series- NF03QC0001
DOC
12 per. Mov. Avg. (DOC)
DOC (mg/L)
10.00
8.00
6.00
4.00
2.00
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)

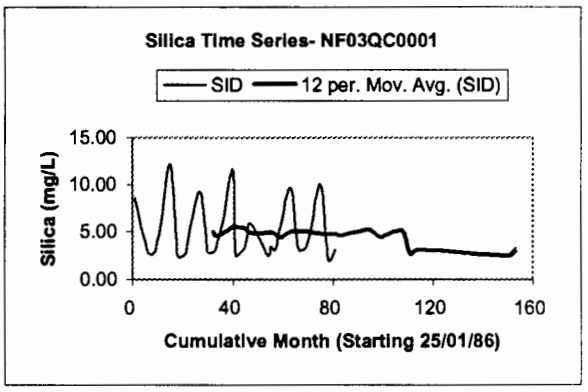

Chloride Time Series- NF03QC0001
CLD
12 per. Mov. Avg. (CLD)
Chloride (mg/L)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)

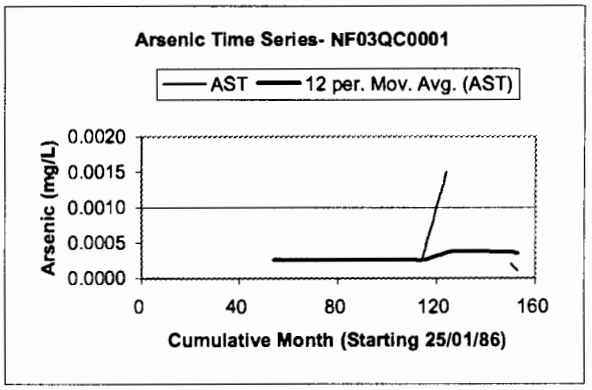

Phosphorous Time Series- NF03QC0001
PT
12 per. Mov. Avg. (PT)
Phosphorous (mg/L)
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)


Floride Time Series- NF03QC0001
FD
12 per. Mov. Avg. (FD)
Floride (mg/L)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
0
40
80
120
160
Cumulative Month (Starting 25/01/86)


Nitrate & Nitrite Time Series- NF03QC0001
NO3NO2
12 per. Mov. Avg. (NO3NO2)
Nitrate & Nitrite (mg/L)
0.25
0.20
0.15
0.10
0.05
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)


Nitrogen Time Series- NF03QC0001
NT
12 per. Mov. Avg. (NT)
Nitrogen (mg/L)
1.00
0.80
0.60
0.40
0.20
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)


Silica Time Series- NF03QC0001
SID
12 per. Mov. Avg. (SID)
Silica (mg/L)
15.00
10.00
5.00
0.00
0
40
80
120
160
Cumulative Month (Starting 25/01/86)


Arsenic Time Series- NF03QC0001
AST
12 per. Mov. Avg. (AST)
Arsenic (mg/L)
0.0020
0.0015
0.0010
0.0005
0.0000
0
40
80
120
160
Cumulative Month (Starting 25/01/86)

Appendix D:
Spearman Trend Analysis

Hearts Content Brook- NF02ZL0002
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.177	112	-1.886	No
COLORA	0.280	112	3.059	Up
TURB	0.368	112	4.151	Up
O2D	0.009	103	0.090	No
PHL	0.022	112	0.231	No
CAD	-0.018	111	-0.188	No
NAD	-0.229	107	-2.411	Down
MGD	-0.051	111	-0.533	No
KD	0.029	107	0.297	No
SO4IC	-0.069	112	-0.725	No
CLD	-0.089	112	-0.937	No
DOC	0.146	111	1.541	No
PT	-0.329	110	-3.621	Down
NO3NO2	-0.065	112	-0.683	No
NT	0.119	105	1.216	No
SID	0.061	103	0.614	No
ALT	-0.125	112	-1.321	No
AST	0.182	70	1.526	No
BAT	-0.184	112	-1.963	Down
BET	0.417	112	4.812	Up
CDT	0.400	112	4.577	Up
COT	0.076	110	0.792	No
CRT	0.024	110	0.249	No
CUT	-0.301	110	-3.280	Down
FET	-0.117	110	-1.224	No
HGT	-0.443	94	-4.740	Down
LIT	-0.113	110	-1.182	No
MNT	-0.171	110	-1.804	No
MOT	0.262	110	2.821	Up
NIT	0.089	110	0.929	No
PBT	-0.208	110	-2.210	Down
SET	-0.296	47	-2.079	Down
SRT	-0.066	110	-0.687	No
VT	0.079	110	0.824	No
ZNT	-0.137	110	-1.437	No
Total Up				5
Total Down				7
Total No				23

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Spout Cove Brook- NF02ZL0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.308	98	-3.172	Down
COLORA	0.224	98	2.252	Up
TURB	0.543	98	6.336	Up
O2D	0.027	96	0.262	No
PHL	0.183	98	1.824	No
CAD	-0.233	98	-2.348	Down
NAD	-0.396	98	-4.225	Down
MGD	-0.219	98	-2.199	Down
KD	-0.163	98	-1.619	No
SO4IC	-0.116	98	-1.144	No
CLD	-0.279	98	-2.847	Down
DOC	0.146	98	1.446	No
PT	-0.205	98	-2.052	Down
NO3NO2	-0.020	98	-0.196	No
NT	0.076	92	0.723	No
SID	0.131	89	1.233	No
ALT	-0.008	97	-0.078	No
AST	-0.429	55	-3.457	Down
BAT	-0.235	97	-2.356	Down
BET	-0.100	97	-0.980	No
CDT	0.013	97	0.127	No
COT	0.113	95	1.097	No
CRT	-0.201	95	-1.979	Down
CUT	-0.177	95	-1.734	No
FET	0.149	95	1.453	No
HGT	-0.427	79	-4.144	Down
LIT	-0.085	95	-0.823	No
MNT	0.241	95	2.395	Up
MOT	-0.268	95	-2.683	Down
NIT	-0.054	95	-0.522	No
PBT	-0.447	95	-4.819	Down
SET	-0.392	46	-2.826	Down
SRT	-0.265	95	-2.650	Down
VT	-0.214	95	-2.113	Down
ZNT	-0.163	95	-1.593	No
Total Up				3
Total Down				15
Total No				17

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Goulds Brook- NF02ZL0029

Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.376	91	3.828	Up
COLORA	0.206	93	2.008	Up
TURB	-0.036	93	-0.344	No
O2D	0.145	75	1.252	No
PHL	0.169	93	1.636	No
CAD	0.185	87	1.736	No
NAD	0.506	82	5.247	Up
MGD	0.176	87	1.648	No
KD	-0.272	82	-2.528	Down
SO4IC	0.494	91	5.360	Up
CLD	0.646	91	7.984	Up
DOC	0.101	91	0.958	No
PT	-0.608	92	-7.265	Down
NO3NO2	-0.387	91	-3.959	Down
NT	-0.568	86	-6.325	Down
SID	-0.020	92	-0.190	No
ALT	-0.184	93	-1.786	No
AST	-0.183	83	-1.675	No
BAT	0.020	93	0.191	No
BET	0.433	93	4.582	Up
CDT	0.341	93	3.460	Up
COT	-0.208	91	-2.006	Down
CRT	0.303	91	3.000	Up
CUT	0.034	91	0.321	No
FET	-0.159	91	-1.519	No
HGT	-0.128	93	-1.231	No
LIT	-0.102	91	-0.967	No
MNT	-0.199	91	-1.916	No
MOT	0.366	91	3.710	Up
NIT	0.293	91	2.891	Up
PBT	0.098	91	0.929	No
SET	-0.218	47	-1.498	No
SRT	0.189	91	1.816	No
VT	-0.173	91	-1.657	No
ZNT	0.269	91	2.635	Up
Total Up				11
Total Down				5
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Broad Cove Brook- NF02ZM0020
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.319	113	3.546	Up
COLORA	0.322	113	3.583	Up
TURB	0.408	113	4.708	Up
O2D	-0.110	99	-1.090	No
PHL	-0.026	114	-0.275	No
CAD	0.095	112	1.001	No
NAD	0.369	105	4.029	Up
MGD	-0.067	112	-0.704	No
KD	-0.116	105	-1.185	No
SO4IC	-0.034	114	-0.360	No
CLD	0.543	114	6.843	Up
DOC	0.100	112	1.054	No
PT	-0.145	113	-1.544	No
NO3NO2	-0.002	113	-0.021	No
NT	0.207	109	2.189	Up
SID	0.042	105	0.427	No
ALT	0.078	114	0.828	No
AST	-0.036	73	-0.304	No
BAT	0.148	114	1.584	No
BET	0.478	114	5.759	Up
CDT	0.306	114	3.402	Up
COT	0.139	112	1.472	No
CRT	0.105	112	1.107	No
CUT	-0.246	112	-2.662	Down
FET	0.099	112	1.043	No
HGT	-0.344	96	-3.552	Down
LIT	0.375	112	4.243	Up
MNT	0.044	112	0.462	No
MOT	0.318	112	3.518	Up
NIT	0.201	112	2.152	Up
PBT	-0.032	112	-0.336	No
SET	-0.060	48	-0.408	No
SRT	0.079	112	0.831	No
VT	-0.113	112	-1.193	No
ZNT	0.177	112	1.886	No
Total Up				11
Total Down				2
Total No				22

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Kelly's Brook- NF02ZM0144
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.383	74	-3.518	Down
COLORA	-0.324	74	-2.906	Down
TURB	-0.523	74	-5.207	Down
O2D	-0.233	56	-1.761	No
PHL	-0.011	75	-0.094	No
CAD	-0.267	68	-2.251	Down
NAD	-0.059	58	-0.442	No
MGD	-0.376	68	-3.297	Down
KD	-0.172	58	-1.307	No
SO4IC	-0.320	73	-2.846	Down
CLD	-0.325	72	-2.875	Down
FD	-	-	-	-
DOC	0.039	70	0.322	No
PT	0.212	71	1.802	No
NO3NO2	0.052	72	0.436	No
NT	-0.410	66	-3.596	Down
SID	-0.112	75	-0.963	No
ALT	-0.159	75	-1.376	No
AST	-0.197	75	-1.717	No
BAT	-0.540	75	-5.482	Down
BET	-0.297	75	-2.657	Down
CDT	-0.254	75	-2.244	Down
COT	-0.409	73	-3.777	Down
CRT	-0.175	73	-1.498	No
CUT	-0.121	73	-1.027	No
FET	-0.211	73	-1.819	No
HGT	-0.180	75	-1.563	No
LIT	-0.553	73	-5.593	Down
MNT	-0.538	73	-5.378	Down
MOT	-0.292	73	-2.573	Down
NIT	0.082	73	0.693	No
PBT	-0.068	73	-0.574	No
SET	-0.217	32	-1.218	No
SRT	-0.476	73	-4.561	Down
VT	-0.039	73	-0.329	No
ZNT	-0.209	73	-1.801	No
Total Up				0
Total Down				16
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Rennies River (@ Carnell Dr)- NF02ZM0016
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.072	132	-0.823	No
COLORA	0.388	133	4.818	Up
TURB	0.262	133	3.107	Up
O2D	-0.026	113	-0.274	No
PHL	0.253	134	3.004	Up
CAD	-0.168	125	-1.890	No
NAD	0.094	114	0.999	No
MGD	-0.331	126	-3.906	Down
KD	-0.018	114	-0.191	No
SO4IC	0.182	131	2.102	Up
CLD	0.043	131	0.489	No
FD	-	-	-	-
DOC	0.195	130	2.249	Up
PT	-0.503	132	-6.636	Down
NO3NO2	0.372	130	4.534	Up
NT	0.319	127	3.763	Up
SID	0.108	124	1.200	No
ALT	-0.029	133	-0.332	No
AST	-0.108	91	-1.025	No
BAT	-0.280	133	-3.338	Down
BET	-0.014	133	-0.160	No
CDT	-0.266	133	-3.158	Down
COT	-0.411	131	-5.121	Down
CRT	0.058	131	0.660	No
CUT	0.030	131	0.341	No
FET	-0.269	131	-3.172	Down
HGT	-0.155	116	-1.675	No
LIT	0.161	131	1.853	No
MNT	-0.495	131	-6.470	Down
MOT	0.403	131	5.001	Up
NIT	-0.051	131	-0.580	No
PBT	-0.378	131	-4.637	Down
SET	-0.356	46	-2.527	Down
SRT	-0.278	131	-3.287	Down
VT	0.000	131	0.000	No
ZNT	-0.125	131	-1.431	No
Total Up				8
Total Down				10
Total No				17

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Mundy Pond- NF02ZM0109

Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.249	79	-2.256	Down
COLORA	-0.288	79	-2.639	Down
TURB	-0.316	79	-2.923	Down
O2D	0.091	55	0.665	No
PHL	0.066	80	0.584	No
CAD	-0.130	69	-1.073	No
NAD	-0.223	57	-1.697	No
MGD	-0.423	69	-3.821	Down
KD	-0.480	57	-4.058	Down
SO4IC	-0.069	78	-0.603	No
CLD	-0.155	78	-1.368	No
DOC	0.236	76	2.089	Up
PT	-0.080	78	-0.700	No
NO3NO2	-0.208	77	-1.842	No
NT	-0.268	73	-2.344	Down
SID	-0.168	79	-1.495	No
ALT	-0.071	80	-0.629	No
AST	-0.178	80	-1.598	No
BAT	-0.442	80	-4.352	Down
BET	-0.315	80	-2.931	Down
CDT	-0.244	80	-2.222	Down
COT	-0.410	78	-3.919	Down
CRT	0.001	78	0.009	No
CUT	-0.067	78	-0.585	No
FET	-0.254	78	-2.289	Down
HGT	-0.152	80	-1.358	No
LIT	-0.588	78	-6.337	Down
MNT	-0.474	78	-4.693	Down
MOT	-0.039	78	-0.340	No
NIT	-0.045	78	-0.393	No
PBT	0.072	78	0.629	No
SET	-0.066	30	-0.350	No
SRT	-0.372	78	-3.494	Down
VT	0.064	78	0.559	No
ZNT	-0.311	78	-2.853	Down
Total Up				1
Total Down				15
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Virginia (@ Outlet to Quidi Vidi Lake)- NF02ZM0014
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observation	Test Statistic	Is There a Trend?
CONDL	-0.159	132	-1.836	No
COLORA	0.395	132	4.902	Up
TURB	0.309	132	3.704	Up
O2D	-0.111	112	-1.171	No
PHL	0.290	133	3.468	Up
CAD	-0.270	125	-3.110	Down
NAD	-0.005	113	-0.053	No
MGD	-0.426	125	-5.222	Down
KD	0.146	113	1.555	No
SO4IC	0.175	130	2.011	Up
CLD	-0.054	130	-0.612	No
FD	-	-	-	-
DOC	0.106	130	1.206	No
PT	-0.299	132	-3.573	Down
NO3NO2	0.362	129	4.376	Up
NT	0.448	127	5.602	Up
SID	-0.059	123	-0.650	No
ALT	0.020	133	0.229	No
AST	0.038	91	0.359	No
BAT	-0.425	133	-5.374	Down
BET	-0.172	133	-1.998	Down
CDT	0.056	133	0.642	No
COT	-0.318	131	-3.810	Down
CRT	0.073	131	0.831	No
CUT	0.147	131	1.688	No
FET	0.078	131	0.889	No
HGT	-0.076	116	-0.814	No
LIT	0.094	131	1.072	No
MNT	-0.100	131	-1.142	No
MOT	0.344	131	4.161	Up
NIT	-0.014	131	-0.159	No
PBT	-0.091	131	-1.038	No
SET	-0.444	47	-3.324	Down
SRT	-0.403	131	-5.001	Down
VT	-0.015	131	-0.170	No
ZNT	-0.307	131	-3.664	Down
Total Up				7
Total Down				9
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Waterford River (@ Kilbride)- NF02ZM0009
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.146	129	1.663	No
COLORA	0.431	129	5.383	Up
TURB	0.364	129	4.404	Up
O2D	-0.087	108	-0.899	No
PHL	0.217	130	2.515	Up
CAD	-0.015	123	-0.165	No
NAD	0.236	111	2.536	Up
MGD	-0.203	123	-2.280	Down
KD	0.130	111	1.369	No
SO4IC	0.347	128	4.153	Up
CLD	0.155	127	1.754	No
FD	-	-	-	-
DOC	0.188	126	2.131	Up
PT	-0.236	128	-2.726	Down
NO3NO2	0.466	127	5.888	Up
NT	0.511	121	6.485	Up
SID	0.077	120	0.839	No
ALT	-0.059	130	-0.669	No
AST	-0.021	92	-0.199	No
BAT	-0.067	130	-0.760	No
BET	0.250	130	2.921	Up
CDT	0.015	130	0.170	No
COT	-0.268	128	-3.123	Down
CRT	-0.023	128	-0.258	No
CUT	-0.182	128	-2.078	Down
FET	-0.126	128	-1.426	No
HGT	-0.209	113	-2.252	Down
LIT	0.225	128	2.592	Up
MNT	-0.333	128	-3.964	Down
MOT	0.497	128	6.429	Up
NIT	0.133	128	1.506	No
PBT	-0.156	128	-1.773	No
SET	-0.280	47	-1.957	No
SRT	-0.206	128	-2.363	Down
VT	0.021	128	0.236	No
ZNT	-0.055	128	-0.618	No
Total Up				11
Total Down				7
Total No				17

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Quidi Vidi Outlet- NF02ZM0015
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.089	131	-1.015	No
COLORA	0.329	131	3.957	Up
TURB	0.219	131	2.549	Up
O2D	0.031	113	0.327	No
PHL	0.213	132	2.486	Up
CAD	-0.179	125	-2.018	Down
NAD	-0.021	113	-0.221	No
MGD	-0.371	125	-4.431	Down
KD	0.030	113	0.316	No
SO4IC	0.110	130	1.252	No
CLD	-0.033	130	-0.374	No
FD	-	-	-	-
DOC	0.217	128	2.495	Up
PT	-0.422	130	-5.266	Down
NO3NO2	0.203	129	2.336	Up
NT	0.336	126	3.972	Up
SID	0.108	122	1.190	No
ALT	-0.125	132	-1.436	No
AST	0.050	90	0.470	No
BAT	-0.424	132	-5.338	Down
BET	0.061	132	0.697	No
CDT	-0.090	132	-1.030	No
COT	-0.349	130	-4.213	Down
CRT	0.112	130	1.275	No
CUT	-0.030	130	-0.340	No
FET	-0.261	130	-3.059	Down
HGT	0.134	115	1.437	No
LIT	0.116	130	1.321	No
MNT	-0.395	130	-4.864	Down
MOT	0.448	130	5.669	Up
NIT	0.032	130	0.362	No
PBT	-0.311	130	-3.702	Down
SET	-0.437	46	-3.223	Down
SRT	-0.392	130	-4.821	Down
VT	-0.038	130	-0.430	No
ZNT	-0.163	130	-1.869	No
Total Up				7
Total Down				10
Total No				18

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Raymond Brook- NF02ZM0017
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.084	125	0.935	No
COLORA	0.044	125	0.488	No
TURB	0.172	125	1.936	No
O2D	0.025	111	0.261	No
PHL	0.102	125	1.137	No
CAD	0.127	118	1.379	No
NAD	0.047	107	0.482	No
MGD	0.136	118	1.479	No
KD	-0.489	107	-5.744	Down
SO4IC	-0.054	125	-0.600	No
CLD	0.261	125	2.999	Up
DOC	0.049	123	0.540	No
PT	-0.139	122	-1.538	No
NO3NO2	0.113	125	1.261	No
NT	0.192	117	2.098	Up
SID	-0.024	116	-0.256	No
ALT	-0.155	125	-1.740	No
AST	-0.225	85	-2.104	Down
BAT	-0.170	125	-1.913	No
BET	0.584	125	7.979	Up
CDT	0.418	125	5.103	Up
COT	-0.169	123	-1.886	No
CRT	0.090	123	0.994	No
CUT	-0.122	123	-1.352	No
FET	-0.121	123	-1.341	No
HGT	-0.281	108	-3.015	Down
LIT	-0.118	123	-1.307	No
MNT	-0.271	123	-3.097	Down
MOT	0.473	123	5.905	Up
NIT	0.206	123	2.316	Up
PBT	0.054	123	0.595	No
SET	-0.230	48	-1.603	No
SRT	0.030	123	0.330	No
VT	-0.041	123	-0.451	No
ZNT	-0.205	123	-2.304	Down
Total Up				6
Total Down				5
Total No				24

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Mobile River- NF02ZM0018
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.223	105	-2.322	Down
COLORA	0.201	106	2.093	Up
TURB	0.397	106	4.411	Up
O2D	0.008	100	0.079	No
PHL	0.040	106	0.408	No
CAD	-0.038	106	-0.388	No
NAD	-0.259	105	-2.721	Down
MGD	-0.095	106	-0.973	No
KD	-0.286	105	-3.029	Down
SO4IC	0.091	106	0.932	No
CLD	-0.155	106	-1.600	No
DOC	0.083	105	0.845	No
PT	-0.171	106	-1.770	No
NO3NO2	-0.122	105	-1.247	No
NT	0.179	100	1.801	No
SID	0.190	97	1.886	No
ALT	0.070	106	0.716	No
AST	-0.169	65	-1.361	No
BAT	-0.060	106	-0.613	No
BET	0.113	106	1.160	No
CDT	0.093	106	0.953	No
COT	-0.330	104	-3.531	Down
CRT	-0.160	104	-1.637	No
CUT	-0.157	104	-1.606	No
FET	-0.163	104	-1.669	No
HGT	-0.316	88	-3.089	Down
LIT	0.030	104	0.303	No
MNT	-0.316	104	-3.364	Down
MOT	0.155	104	1.585	No
NIT	0.040	104	0.404	No
PBT	-0.344	104	-3.700	Down
SET	-0.106	48	-0.723	No
SRT	-0.060	104	-0.607	No
VT	-0.168	104	-1.721	No
ZNT	-0.156	104	-1.595	No
Total Up				2
Total Down				7
Total No				26

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Seal Cove River- NF02ZM0019
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.073	98	-0.717	No
COLORA	0.121	98	1.194	No
TURB	0.358	98	3.757	Up
O2D	0.014	98	0.137	No
PHL	-0.016	98	-0.157	No
CAD	-0.042	98	-0.412	No
NAD	-0.167	98	-1.660	No
MGD	-0.051	98	-0.500	No
KD	-0.192	98	-1.917	No
SO4IC	0.035	98	0.343	No
CLD	-0.049	98	-0.481	No
DOC	-0.029	98	-0.284	No
PT	-0.230	98	-2.316	Down
NO3NO2	-0.061	98	-0.599	No
NT	0.120	92	1.147	No
SID	0.046	89	0.430	No
ALT	0.010	98	0.098	No
AST	-0.160	57	-1.202	No
BAT	-0.105	98	-1.035	No
BET	-	-	-	-
CDT	0.042	98	0.412	No
COT	0.217	96	2.155	Up
CRT	-0.127	96	-1.241	No
CUT	-0.338	96	-3.482	Down
FET	0.039	96	0.378	No
HGT	-0.407	80	-3.935	Down
LIT	0.001	96	0.010	No
MNT	0.023	96	0.223	No
MOT	-0.183	96	-1.805	No
NIT	-0.167	96	-1.642	No
PBT	-0.324	96	-3.320	Down
SET	-0.275	48	-1.940	No
SRT	-0.086	96	-0.837	No
VT	-0.021	96	-0.204	No
ZNT	-0.163	96	-1.602	No
Total Up				2
Total Down				4
Total No				28

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Northwest Brook- NF02ZN0002
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.186	114	-2.003	Down
COLORA	0.260	115	2.862	Up
TURB	0.345	115	3.907	Up
O2D	-0.039	104	-0.394	No
PHL	-0.073	116	-0.782	No
CAD	-0.164	110	-1.728	No
NAD	-0.137	106	-1.410	No
MGD	-0.035	110	-0.364	No
KD	-0.260	106	-2.746	Down
SO4IC	0.128	114	1.366	No
CLD	0.021	114	0.222	No
DOC	0.119	114	1.268	No
PT	-0.070	114	-0.743	No
NO3NO2	0.032	113	0.337	No
NT	0.197	110	2.088	Up
SID	0.056	108	0.577	No
ALT	-0.027	116	-0.288	No
AST	-0.067	75	-0.574	No
BAT	-0.238	116	-2.616	Down
BET	0.445	116	5.306	Up
CDT	0.314	116	3.531	Up
COT	0.077	114	0.817	No
CRT	0.228	114	2.478	Up
CUT	-0.261	114	-2.861	Down
FET	-0.098	114	-1.042	No
HGT	-0.450	99	-4.963	Down
LIT	-0.187	114	-2.015	Down
MNT	-0.096	114	-1.021	No
MOT	0.211	114	2.284	Up
NIT	0.267	114	2.932	Up
PBT	-0.070	114	-0.743	No
SET	-0.152	48	-1.043	No
SRT	-0.176	114	-1.892	No
VT	0.218	114	2.364	Up
ZNT	-0.126	114	-1.344	No
Total Up				9
Total Down				6
Total No				20

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Salmonier River- NF02ZN0004
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.363	121	-4.250	Down
COLORA	0.156	121	1.723	No
TURB	0.137	121	1.509	No
O2D	-0.020	101	-0.199	No
PHL	0.197	121	2.192	Up
CAD	-0.031	112	-0.325	No
NAD	-0.453	105	-5.157	Down
MGD	-0.138	112	-1.461	No
KD	-0.263	105	-2.767	Down
SO4IC	0.015	120	0.163	No
CLD	-0.210	120	-2.333	Down
DOC	-0.014	119	-0.151	No
PT	-0.252	120	-2.829	Down
NO3NO2	0.001	120	0.011	No
NT	0.264	115	2.910	Up
SID	0.008	121	0.087	No
ALT	-0.203	121	-2.262	Down
AST	0.229	89	2.194	Up
BAT	-0.233	121	-2.614	Down
BET	0.498	121	6.265	Up
CDT	0.347	121	4.036	Up
COT	0.133	119	1.452	No
CRT	0.200	119	2.208	Up
CUT	-0.006	119	-0.065	No
FET	-0.249	119	-2.781	Down
HGT	-0.299	114	-3.316	Down
LIT	-0.153	119	-1.675	No
MNT	-0.144	119	-1.574	No
MOT	0.446	119	5.390	Up
NIT	0.196	119	2.162	Up
PBT	0.002	119	0.022	No
SET	-0.342	47	-2.441	Down
SRT	-0.148	119	-1.619	No
VT	-0.155	119	-1.697	No
ZNT	-0.098	119	-1.065	No
Total Up				8
Total Down				10
Total No				17

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Rocky River- NF02ZK0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.063	161	-0.796	No
COLORA	0.067	161	0.847	No
TURB	-0.188	154	-2.360	Down
O2D	-0.383	37	-2.453	Down
PHL	0.132	159	1.669	No
CAD	-0.020	150	-0.243	No
NAD	-0.015	144	-0.179	No
MGD	-0.116	152	-1.430	No
KD	0.094	144	1.125	No
SO4IC	-0.104	155	-1.293	No
CLD	0.058	154	0.716	No
FD	-	-	-	-
DOC	0.012	127	0.134	No
PT	0.127	158	1.599	No
NO3NO2	0.367	158	4.928	Up
NT	0.304	158	3.986	Up
SID	-0.048	107	-0.492	No
ALT	-0.198	31	-1.088	No
AST	-0.461	87	-4.790	Down
BAT	-0.164	31	-0.895	No
BET	0.331	31	1.889	No
CDT	0.358	31	2.065	Up
COT	0.341	31	1.953	No
CRT	0.469	31	2.860	Up
CUT	0.382	31	2.226	Up
FET	0.079	31	0.427	No
HGT	-	-	-	-
LIT	0.002	31	0.011	No
MNT	-0.210	31	-1.157	No
MOT	0.175	31	0.957	No
NIT	0.132	31	0.717	No
PBT	-0.278	31	-1.559	No
SET	-	-	-	-
SRT	0.264	31	1.474	No
VT	-0.045	31	-0.243	No
ZNT	-0.015	31	-0.081	No
Total Up				5
Total Down				3
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Northeast River- NF02ZK0005
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.029	83	0.261	No
COLORA	-0.105	84	-0.956	No
TURB	0.087	84	0.791	No
O2D	-0.083	59	-0.629	No
PHL	0.233	84	2.170	Up
CAD	-0.031	68	-0.252	No
NAD	0.069	56	0.508	No
MGD	-0.077	68	-0.627	No
KD	-0.041	56	-0.302	No
SO4IC	-0.137	80	-1.221	No
CLD	0.261	80	2.388	Up
DOC	0.140	82	1.265	No
PT	-0.305	83	-2.882	Down
NO3NO2	-0.063	80	-0.558	No
NT	0.299	81	2.785	Up
SID	-0.092	80	-0.816	No
ALT	-0.208	84	-1.926	No
AST	-0.011	63	-0.086	No
BAT	-0.118	84	-1.076	No
BET	0.558	84	6.089	Up
CDT	0.485	84	5.022	Up
COT	0.092	83	0.832	No
CRT	-0.044	83	-0.396	No
CUT	-0.207	83	-1.904	No
FET	0.054	83	0.487	No
HGT	-0.113	76	-0.978	No
LIT	-0.346	83	-3.319	Down
MNT	-0.012	83	-0.108	No
MOT	0.519	83	5.465	Up
NIT	0.299	81	2.785	Up
PBT	-0.140	83	-1.273	No
SET	0.288	23	1.378	No
SRT	-0.134	83	-1.217	No
VT	-0.183	83	-1.675	No
ZNT	-0.180	83	-1.647	No
Total Up				7
Total Down				2
Total No				26

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Pipers Hole River- NF02ZH0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.272	134	-3.247	Down
COLORA	0.249	134	2.954	Up
TURB	-0.161	127	-1.824	No
O2D	-	-	-	-
PHL	-0.119	132	-1.367	No
CAD	-0.221	123	-2.493	Down
NAD	-0.224	117	-2.465	Down
MGD	-0.226	125	-2.573	Down
KD	-0.104	117	-1.121	No
SO4IC	-0.266	123	-3.035	Down
CLD	-0.224	128	-2.580	Down
FD	-0.059	69	-0.484	No
DOC	0.107	101	1.071	No
PT	0.142	131	1.629	No
NO3NO2	0.070	131	0.797	No
NT	0.250	131	2.933	Up
SID	-0.129	86	-1.192	No
ALT	-	-	-	-
AST	-0.501	84	-5.242	Down
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				2
Total Down				7
Total No				8

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Rattle Brook- NF02ZG0025
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.010	100	0.099	No
COLORA	0.035	100	0.347	No
TURB	0.363	100	3.857	Up
O2D	0.060	97	0.586	No
PHL	0.003	100	0.030	No
CAD	-0.067	100	-0.665	No
NAD	-0.105	100	-1.045	No
MGD	0.017	100	0.168	No
KD	-0.309	100	-3.216	Down
SO4IC	-0.038	100	-0.376	No
CLD	0.067	100	0.665	No
DOC	-0.185	100	-1.864	No
PT	-0.180	100	-1.811	No
NO3NO2	-0.078	100	-0.775	No
NT	-0.018	94	-0.173	No
SID	-0.023	91	-0.217	No
ALT	-0.192	100	-1.937	No
AST	-0.313	58	-2.466	Down
BAT	-0.116	100	-1.156	No
BET	-	-	-	-
CDT	0.106	100	1.055	No
COT	0.016	98	0.157	No
CRT	-0.221	98	-2.220	Down
CUT	-0.440	98	-4.801	Down
FET	-0.095	98	-0.935	No
HGT	-0.559	82	-6.030	Down
LIT	-0.183	98	-1.824	No
MNT	-0.005	98	-0.049	No
MOT	0.085	98	0.836	No
NIT	-0.100	98	-0.985	No
PBT	-0.417	98	-4.495	Down
SET	-0.122	48	-0.834	No
SRT	-0.032	98	-0.314	No
VT	-0.177	95	-1.734	No
ZNT	-0.202	98	-2.021	Down
Total Up				1
Total Down				7
Total No				26

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Tides Brook- NF02ZG0024
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.383	122	-4.542	Down
COLORA	0.325	122	3.765	Up
TURB	0.276	122	3.146	Up
O2D	-0.053	106	-0.541	No
PHL	-0.049	122	-0.537	No
CAD	-0.231	117	-2.546	Down
NAD	-0.314	113	-3.484	Down
MGD	-0.109	117	-1.176	No
KD	-0.680	113	-9.771	Down
SO4IC	-0.088	120	-0.960	No
CLD	-0.060	120	-0.653	No
DOC	0.155	121	1.712	No
PT	-0.129	122	-1.425	No
NO3NO2	-0.327	120	-3.759	Down
NT	0.199	117	2.178	Up
SID	0.172	113	1.840	No
ALT	-0.157	122	-1.741	No
AST	0.121	81	1.083	No
BAT	-0.312	122	-3.597	Down
BET	-0.050	122	-0.548	No
CDT	-0.048	122	-0.526	No
COT	0.206	120	2.287	Up
CRT	-0.142	120	-1.558	No
CUT	-0.271	120	-3.058	Down
FET	0.172	120	1.897	No
HGT	-0.327	104	-3.495	Down
LIT	0.021	120	0.228	No
MNT	-0.043	120	-0.468	No
MOT	0.341	120	3.940	Up
NIT	0.070	120	0.762	No
PBT	-0.203	120	-2.252	Down
SET	-0.163	48	-1.121	No
SRT	-0.286	120	-3.242	Down
VT	-0.033	120	-0.359	No
ZNT	-0.238	120	-2.662	Down
Total Up				5
Total Down				11
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Garnish River- NF02ZG0016
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.027	101	0.269	No
COLORA	0.028	101	0.279	No
TURB	0.033	97	0.322	No
O2D	-0.339	30	-1.907	No
PHL	0.175	101	1.769	No
CAD	-0.034	95	-0.328	No
NAD	0.125	93	1.202	No
MGD	0.029	95	0.280	No
KD	0.079	93	0.756	No
SO4IC	0.024	99	0.236	No
CLD	0.161	99	1.607	No
FD	-	-	-	-
DOC	0.019	84	0.172	No
PT	0.060	100	0.595	No
NO3NO2	0.133	101	1.335	No
NT	0.043	99	0.424	No
SID	-0.030	66	-0.240	No
ALT	-0.015	35	-0.086	No
AST	-0.490	48	-3.812	Down
BAT	-0.201	35	-1.179	No
BET	0.409	35	2.575	Up
CDT	0.441	35	2.823	Up
COT	-0.132	35	-0.765	No
CRT	0.166	35	0.967	No
CUT	0.227	35	1.339	No
FET	0.072	35	0.415	No
HGT	-	-	-	-
LIT	-0.006	35	-0.034	No
MNT	-0.018	35	-0.103	No
MOT	0.326	35	1.981	No
NIT	-0.007	35	-0.040	No
PBT	-0.275	35	-1.643	No
SET	-	-	-	-
SRT	0.035	35	0.201	No
VT	-0.095	35	-0.548	No
ZNT	-0.062	35	-0.357	No
Total Up				2
Total Down				1
Total No				30

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Grand Bank Brook- NF02ZG0026
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.250	83	-2.324	Down
COLORA	0.190	83	1.742	No
TURB	0.101	83	0.914	No
O2D	0.077	74	0.655	No
PHL	0.107	83	0.969	No
CAD	-0.109	83	-0.987	No
NAD	-0.309	83	-2.924	Down
MGD	-0.150	83	-1.365	No
KD	-0.407	83	-4.010	Down
SO4IC	-0.012	83	-0.108	No
CLD	-0.107	83	-0.969	No
DOC	-0.031	82	-0.277	No
PT	-0.175	82	-1.590	No
NO3NO2	-0.168	83	-1.534	No
NT	0.212	78	1.891	No
SID	0.122	83	1.106	No
ALT	-0.018	83	-0.162	No
AST	-0.189	73	-1.622	No
BAT	-0.290	83	-2.727	Down
BET	0.171	83	1.562	No
CDT	-0.164	83	-1.496	No
COT	0.015	81	0.133	No
CRT	-0.112	81	-1.002	No
CUT	0.242	81	2.217	Up
FET	-0.087	81	-0.776	No
HGT	-0.613	82	-6.940	Down
LIT	-0.173	81	-1.561	No
MNT	-0.337	81	-3.181	Down
MOT	0.117	81	1.047	No
NIT	0.031	81	0.276	No
PBT	-0.180	81	-1.626	No
SET	-0.219	47	-1.506	No
SRT	-0.133	81	-1.193	No
VT	-0.104	81	-0.929	No
ZNT	-0.064	81	-0.570	No
Total Up				1
Total Down				6
Total No				28

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

South West Brook (@ Baie Verte)- NF02YM0004
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.200	108	-2.102	Down
COLORA	0.064	108	0.660	No
TURB	0.323	108	3.514	Up
O2D	-0.071	97	-0.694	No
PHL	0.068	108	0.702	No
CAD	-0.169	107	-1.757	No
NAD	-0.276	105	-2.914	Down
MGD	-0.242	107	-2.556	Down
KD	-0.376	105	-4.118	Down
SO4IC	-0.274	109	-2.947	Down
CLD	-0.242	109	-2.580	Down
DOC	-0.164	109	-1.720	No
PT	-0.237	106	-2.488	Down
NO3NO2	-0.024	109	-0.248	No
NT	0.274	102	2.849	Up
SID	0.023	97	0.224	No
ALT	-0.085	109	-0.882	No
AST	-0.214	63	-1.711	No
BAT	-0.308	109	-3.349	Down
BET	0.542	109	6.671	Up
CDT	0.224	109	2.377	Up
COT	-0.088	106	-0.901	No
CRT	-0.056	106	-0.572	No
CUT	-0.088	106	-0.901	No
FET	-0.025	106	-0.255	No
HGT	-0.337	89	-3.339	Down
LIT	-0.372	105	-4.067	Down
MNT	-0.122	106	-1.254	No
MOT	-0.424	106	-4.774	Down
NIT	0.035	106	0.357	No
PBT	-0.317	106	-3.409	Down
SET	-0.185	51	-1.318	No
SRT	-0.181	106	-1.877	No
VT	-0.086	106	-0.880	No
ZNT	-0.176	106	-1.823	No
Total Up				4
Total Down				12
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Indian Brook- NF02YM0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.384	108	-4.282	Down
COLORA	0.323	108	3.514	Up
TURB	0.111	104	1.128	No
O2D	0.230	25	1.133	No
PHL	0.038	106	0.388	No
CAD	-0.181	106	-1.877	No
NAD	-0.291	105	-3.087	Down
MGD	-0.197	108	-2.069	Down
KD	0.031	105	0.315	No
SO4IC	-0.488	102	-5.591	Down
CLD	-0.537	102	-6.366	Down
FD	-	64	-	-
DOC	0.079	79	0.695	No
PT	0.352	105	3.817	Up
NO3NO2	-0.031	106	-0.316	No
NT	-0.047	106	-0.480	No
SID	0.026	65	0.206	No
ALT	-	-	-	-
AST	-0.217	63	-1.736	No
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				2
Total Down				5
Total No				10

no trend if	(for infinite degrees of freedom)		
1.645		0.05	
-1.96<t<1.96	**alpha**	**0.025**	**5% significance**
2.326		0.01	
2.576		0.005	

Exploits (b/l Millertown Dam)- NF02YO0107
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.815	70	-11.598	Down
COLORA	0.178	85	1.648	No
TURB	0.053	85	0.484	No
O2D	0.280	73	2.458	Up
PHL	0.194	85	1.802	No
CAD	-0.797	63	-10.306	Down
NAD	-0.833	62	-11.662	Down
MGD	-0.624	63	-6.237	Down
KD	-0.383	62	-3.212	Down
SO4IC	-0.782	85	-11.430	Down
CLD	-0.570	85	-6.320	Down
DOC	-0.173	71	-1.459	No
PT	-0.278	85	-2.637	Down
NO3NO2	-0.008	61	-0.061	No
NT	-0.282	83	-2.645	Down
SID	-0.298	70	-2.574	Down
ALT	-0.385	71	-3.465	Down
AST	-0.374	60	-3.071	Down
BAT	-0.682	70	-7.690	Down
BET	0.394	71	3.561	Up
CDT	-0.378	71	-3.392	Down
COT	0.152	68	1.249	No
CRT	0.186	68	1.538	No
CUT	-0.477	68	-4.409	Down
FET	-0.021	68	-0.171	No
HGT	-0.395	71	-3.572	Down
LIT	-0.039	68	-0.317	No
MNT	-0.477	68	-4.409	Down
MOT	0.205	68	1.702	No
NIT	-0.007	68	-0.057	No
PBT	-0.651	68	-6.967	Down
SET	-0.161	38	-0.979	No
SRT	-0.823	68	-11.770	Down
VT	-0.093	68	-0.759	No
ZNT	-0.929	68	-20.394	Down
Total Up				2
Total Down				20
Total No				13

no trend if	(for infinite degrees of freedom)	
1.645	0.05	
-1.96<t<1.96 **alpha**	**0.025**	**5% significance**
2.326	0.01	
2.576	0.005	

Exploits (@ Aspen Brook)- NF02YO0020
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.382	107	-4.236	Down
COLORA	0.392	123	4.687	Up
TURB	0.154	123	1.714	No
O2D	0.121	107	1.249	No
PHL	0.287	123	3.296	Up
CAD	-0.221	103	-2.277	Down
NAD	-0.385	102	-4.172	Down
MGD	-0.079	103	-0.796	No
KD	-0.425	102	-4.695	Down
SO4IC	-0.608	122	-8.389	Down
CLD	-0.471	122	-5.849	Down
DOC	0.185	107	1.929	No
PT	-0.362	121	-4.236	Down
NO3NO2	-0.045	122	-0.493	No
NT	0.014	117	0.150	No
SID	-0.057	96	-0.554	No
ALT	-0.140	107	-1.449	No
AST	-0.280	64	-2.297	Down
BAT	-0.660	106	-8.959	Down
BET	-	-	-	-
CDT	0.143	107	1.481	No
COT	0.107	107	1.103	No
CRT	-0.106	103	-1.071	No
CUT	-0.486	104	-5.616	Down
FET	0.050	104	0.506	No
HGT	-0.217	87	-2.049	Down
LIT	-0.275	102	-2.860	Down
MNT	-0.256	103	-2.661	Down
MOT	0.097	103	0.979	No
NIT	-0.112	103	-1.133	No
PBT	-0.578	103	-7.118	Down
SET	-0.188	48	-1.298	No
SRT	-0.441	103	-4.938	Down
VT	-0.155	103	-1.577	No
ZNT	-0.563	103	-6.846	Down
Total Up				2
Total Down				16
Total No				16

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Exploits (@ Grand Falls)- NF02YO0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.575	106	-7.167	Down
COLORA	0.336	106	3.638	Up
TURB	-0.512	103	-5.990	Down
O2D	-0.222	26	-1.115	No
PHL	0.245	106	2.577	Up
CAD	-0.317	93	-3.188	Down
NAD	-0.424	92	-4.441	Down
MGD	-0.311	93	-3.122	Down
KD	-0.160	92	-1.538	No
SO4IC	-0.633	98	-8.011	Down
CLD	-0.481	101	-5.459	Down
FD	-	60	-	-
DOC	-0.016	91	-0.151	No
PT	-0.040	106	-0.408	No
NO3NO2	0.307	105	3.274	Up
NT	0.426	103	4.732	Up
SID	-0.167	78	-1.477	No
ALT	-	-	-	-
AST	-0.517	66	-4.832	Down
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				4
Total Down				8
Total No				5

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Exploits (@ Bishop Falls)- NF02YO0021
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.547	58	-4.890	Down
COLORA	0.284	75	2.531	Up
TURB	0.050	75	0.428	No
O2D	0.048	70	0.396	No
PHL	0.443	74	4.193	Up
CAD	-0.293	48	-2.078	Down
NAD	-0.247	47	-1.710	No
MGD	-0.160	48	-1.099	No
KD	-0.230	47	-1.585	No
SO4IC	-0.693	72	-8.042	Down
CLD	-0.112	72	-0.943	No
DOC	0.018	57	0.134	No
PT	-0.288	74	-2.552	Down
NO3NO2	0.410	72	3.761	Up
NT	0.156	70	1.302	No
SID	-0.083	49	-0.571	No
ALT	0.057	58	0.427	No
AST	-0.313	32	-1.805	No
BAT	-0.538	57	-4.733	Down
BET	0.812	57	10.318	Up
CDT	0.244	58	1.883	No
COT	0.255	57	1.956	No
CRT	0.062	57	0.461	No
CUT	-0.602	58	-5.642	Down
FET	0.048	58	0.360	No
HGT	0.024	56	0.176	No
LIT	-0.235	57	-1.793	No
MNT	-0.382	58	-3.093	Down
MOT	0.336	57	2.646	Up
NIT	-0.148	57	-1.110	No
PBT	-0.390	58	-3.169	Down
SET	-	-	-	-
SRT	-0.463	57	-3.874	Down
VT	-0.539	57	-4.746	Down
ZNT	-0.568	58	-5.164	Down
Total Up				5
Total Down				11
Total No				18

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

North West Gander River- NF02YQ0006
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.147	62	-1.151	No
COLORA	0.003	62	0.023	No
TURB	0.083	62	0.645	No
O2D	0.031	50	0.215	No
PHL	0.229	62	1.822	No
CAD	-0.186	53	-1.352	No
NAD	-0.088	53	-0.631	No
MGD	0.016	53	0.114	No
KD	-0.278	53	-2.067	Down
SO4IC	-0.291	61	-2.336	Down
CLD	-0.078	61	-0.601	No
DOC	-0.008	62	-0.062	No
PT	-0.290	61	-2.328	Down
NO3NO2	0.019	61	0.146	No
NT	0.121	59	0.920	No
SID	-0.115	56	-0.851	No
ALT	-0.244	62	-1.949	No
AST	-0.187	40	-1.173	No
BAT	-0.244	62	-1.949	No
BET	0.457	62	3.980	Up
CDT	0.287	62	2.321	Up
COT	0.176	60	1.362	No
CRT	-0.349	60	-2.836	Down
CUT	-0.330	60	-2.662	Down
FET	-0.055	60	-0.420	No
HGT	-0.366	53	-2.809	Down
LIT	-0.328	59	-2.621	Down
MNT	0.074	60	0.565	No
MOT	0.050	60	0.381	No
NIT	0.063	60	0.481	No
PBT	-0.210	60	-1.636	No
SET	-0.178	22	-0.809	No
SRT	-0.114	60	-0.874	No
VT	-0.346	60	-2.809	Down
ZNT	-0.100	60	-0.765	No
Total Up				2
Total Down				8
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Gander River (@ Appleton)- NF02YQ0030
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observation	Test Statistic	Is There a Trend?
CONDL	-0.526	45	-4.056	Down
COLORA	0.209	45	1.401	No
TURB	-0.013	45	-0.085	No
O2D	0.211	36	1.259	No
PHL	0.013	45	0.085	No
CAD	-0.423	39	-2.840	Down
NAD	-0.258	39	-1.624	No
MGD	-0.453	39	-3.091	Down
KD	-0.429	39	-2.889	Down
SO4IC	-0.194	44	-1.282	No
CLD	-0.089	44	-0.579	No
FD	-	-	-	-
DOC	0.058	45	0.381	No
PT	0.011	45	0.072	No
NO3NO2	-0.106	44	-0.691	No
NT	0.117	42	0.745	No
SID	-0.176	45	-1.172	No
ALT	-0.658	45	-5.730	Down
AST	-0.355	41	-2.371	Down
BAT	-0.274	45	-1.868	No
BET	0.628	45	5.292	Up
CDT	0.662	45	5.792	Up
COT	0.333	43	2.261	Up
CRT	-0.043	43	-0.276	No
CUT	0.036	43	0.231	No
FET	-0.115	43	-0.741	No
HGT	-0.056	44	-0.363	No
LIT	-0.590	43	-4.679	Down
MNT	-0.110	43	-0.709	No
MOT	0.472	43	3.428	Up
NIT	-0.108	43	-0.696	No
PBT	0.237	43	1.562	No
SET	-0.128	23	-0.591	No
SRT	-0.638	43	-5.305	Down
VT	0.393	43	2.737	Up
ZNT	-0.049	43	-0.314	No
Total Up				5
Total Down				8
Total No				22

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Gander River- NF02YQ0005
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.191	45	1.276	No
COLORA	0.338	45	2.355	Up
TURB	0.417	45	3.009	Up
O2D	0.036	42	0.228	No
PHL	0.056	45	0.368	No
CAD	0.066	45	0.434	No
NAD	-0.239	45	-1.614	No
MGD	0.267	45	1.817	No
KD	-0.446	45	-3.268	Down
SO4IC	-0.205	45	-1.373	No
CLD	-0.163	45	-1.083	No
DOC	0.315	45	2.176	Up
PT	-0.224	44	-1.490	No
NO3NO2	0.135	45	0.893	No
NT	0.291	43	1.948	No
SID	0.041	39	0.250	No
ALT	0.137	45	0.907	No
AST	-0.356	24	-1.787	No
BAT	-0.024	45	-0.157	No
BET	-	-	-	-
CDT	-0.394	45	-2.811	Down
COT	-0.091	44	-0.592	No
CRT	0.028	43	0.179	No
CUT	-0.086	43	-0.553	No
FET	0.524	43	3.939	Up
HGT	0.129	34	0.736	No
LIT	0.046	42	0.291	No
MNT	0.175	43	1.138	No
MOT	-0.120	43	-0.774	No
NIT	0.378	43	2.614	Up
PBT	-0.213	43	-1.396	No
SET	0.222	23	1.043	No
SRT	0.072	43	0.462	No
VT	0.097	43	0.624	No
ZNT	0.162	43	1.051	No
Total Up				5
Total Down				2
Total No				27

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Pound Cove Brook- NF02YR0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.001	115	0.011	No
COLORA	0.331	115	3.729	Up
TURB	0.402	115	4.667	Up
O2D	0.008	103	0.080	No
PHL	-0.373	115	-4.273	Down
CAD	-0.139	110	-1.459	No
NAD	-0.096	110	-1.002	No
MGD	-0.029	110	-0.302	No
KD	-0.047	110	-0.489	No
SO4IC	-0.145	114	-1.551	No
CLD	0.016	114	0.169	No
DOC	0.136	115	1.459	No
PT	-0.259	111	-2.800	Down
NO3NO2	0.074	114	0.785	No
NT	0.365	109	4.055	Up
SID	0.097	104	0.984	No
ALT	0.034	115	0.362	No
AST	-0.024	72	-0.201	No
BAT	-0.098	115	-1.047	No
BET	0.125	115	1.339	No
CDT	0.303	115	3.380	Up
COT	-0.103	112	-1.086	No
CRT	-0.042	112	-0.441	No
CUT	-0.199	112	-2.130	Down
FET	0.109	112	1.150	No
HGT	-0.178	94	-1.735	No
LIT	-0.271	111	-2.939	Down
MNT	0.035	112	0.367	No
MOT	0.006	112	0.063	No
NIT	-0.322	112	-3.567	Down
PBT	-0.268	112	-2.918	Down
SET	-0.274	52	-2.015	Down
SRT	-0.052	112	-0.546	No
VT	0.065	112	0.683	No
ZNT	-0.077	112	-0.810	No
Total Up				4
Total Down				7
Total No				24

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Middle Brook- NF02YR0021
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.639	59	-6.272	Down
COLORA	0.256	59	1.999	Up
TURB	0.289	59	2.279	Up
O2D	0.376	51	2.840	Up
PHL	-0.254	59	-1.983	Down
CAD	-0.483	53	-3.939	Down
NAD	-0.611	53	-5.512	Down
MGD	-0.553	53	-4.740	Down
KD	-0.710	53	-7.200	Down
SO4IC	-0.531	58	-4.689	Down
CLD	-0.009	58	-0.067	No
DOC	-0.125	58	-0.943	No
PT	-0.174	56	-1.298	No
NO3NO2	-0.037	58	-0.277	No
NT	0.137	56	1.016	No
SID	-0.197	59	-1.517	No
ALT	0.072	59	0.545	No
AST	0.107	48	0.730	No
BAT	-0.121	59	-0.920	No
BET	0.296	59	2.340	Up
CDT	0.326	59	2.603	Up
COT	0.210	57	1.593	No
CRT	0.021	57	0.156	No
CUT	0.199	57	1.506	No
FET	0.230	57	1.753	No
HGT	-0.267	58	-2.073	Down
LIT	-0.609	57	-5.694	Down
MNT	0.084	57	0.625	No
MOT	0.154	57	1.156	No
NIT	0.268	57	2.063	Up
PBT	-0.312	57	-2.435	Down
SET	-0.106	36	-0.622	No
SRT	-0.621	57	-5.876	Down
VT	-0.268	57	-2.063	Down
ZNT	0.352	57	2.789	Up
Total Up				7
Total Down				12
Total No				16

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Terra Nova River (@ Newton Lake)- NF02YS0012
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.190	51	-1.355	No
COLORA	0.067	51	0.470	No
TURB	0.438	51	3.411	Up
O2D	-0.104	50	-0.724	No
PHL	-0.071	51	-0.498	No
CAD	-0.194	51	-1.384	No
NAD	-0.313	50	-2.283	Down
MGD	-0.220	51	-1.579	No
KD	-0.463	50	-3.619	Down
SO4IC	-0.086	50	-0.598	No
CLD	-0.194	50	-1.370	No
DOC	-0.282	51	-2.058	Down
PT	-0.243	49	-1.717	No
NO3NO2	0.110	50	0.767	No
NT	0.048	47	0.322	No
SID	-0.094	44	-0.612	No
ALT	-0.166	51	-1.178	No
AST	-0.005	28	-0.025	No
BAT	-0.094	51	-0.661	No
BET	-	-	-	-
CDT	0.105	51	0.739	No
COT	-0.033	50	-0.229	No
CRT	-0.237	50	-1.690	No
CUT	-0.089	50	-0.619	No
FET	-0.055	50	-0.382	No
HGT	-0.388	41	-2.629	Down
LIT	-0.183	49	-1.276	No
MNT	0.036	50	0.250	No
MOT	0.041	50	0.284	No
NIT	-0.043	50	-0.298	No
PBT	-0.396	50	-2.988	Down
SET	-0.204	24	-0.977	No
SRT	-0.240	50	-1.713	No
VT	-0.041	50	-0.284	No
ZNT	-0.121	50	-0.845	No
Total Up				1
Total Down				5
Total No				28

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Terra Nova River (@ Terra Nova)- NF02YS0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.021	63	-0.164	No
COLORA	-0.073	63	-0.572	No
TURB	0.465	63	4.102	Up
O2D	-0.011	51	-0.077	No
PHL	0.110	63	0.864	No
CAD	0.257	57	1.972	Up
NAD	0.187	52	1.346	No
MGD	-0.031	57	-0.230	No
KD	0.301	52	2.232	Up
SO4IC	-0.094	61	-0.725	No
CLD	0.138	61	1.070	No
DOC	-0.110	63	-0.864	No
PT	-0.071	61	-0.547	No
NO3NO2	0.120	61	0.928	No
NT	0.173	58	1.314	No
SID	0.026	57	0.193	No
ALT	-0.068	63	-0.532	No
AST	-0.168	41	-1.064	No
BAT	-0.162	63	-1.282	No
BET	0.513	63	4.668	Up
CDT	0.519	63	4.742	Up
COT	0.209	62	1.655	No
CRT	0.071	62	0.551	No
CUT	-0.035	62	-0.271	No
FET	-0.030	62	-0.232	No
HGT	-0.272	53	-2.019	Down
LIT	-0.125	61	-0.968	No
MNT	0.133	62	1.039	No
MOT	0.132	62	1.031	No
NIT	0.063	63	0.493	No
PBT	-0.002	62	-0.015	No
SET	-0.418	23	-2.109	Down
SRT	-0.065	62	-0.505	No
VT	0.072	62	0.559	No
ZNT	-0.019	62	-0.147	No
Total Up				5
Total Down				2
Total No				28

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Terra Nova River (@ E.S. Spencer Bridge)- NF02YS0011
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.090	63	-0.706	No
COLORA	0.272	63	2.208	Up
TURB	0.332	63	2.749	Up
O2D	-0.053	55	-0.386	No
PHL	0.015	63	0.117	No
CAD	-0.165	60	-1.274	No
NAD	0.019	56	0.140	No
MGD	-0.222	60	-1.734	No
KD	-0.060	56	-0.442	No
SO4IC	-0.054	61	-0.415	No
CLD	0.057	61	0.439	No
FD	-	-	-	-
DOC	0.082	63	0.643	No
PT	-0.178	61	-1.389	No
NO3NO2	0.010	61	0.077	No
NT	0.102	59	0.774	No
SID	0.001	57	0.007	No
ALT	-0.048	63	-0.375	No
AST	-0.008	41	-0.050	No
BAT	0.124	63	0.976	No
BET	0.660	63	6.861	Up
CDT	0.362	63	3.033	Up
COT	0.233	62	1.856	No
CRT	0.001	62	0.008	No
CUT	-0.080	62	-0.622	No
FET	0.150	62	1.175	No
HGT	-0.136	53	-0.980	No
LIT	-0.065	61	-0.500	No
MNT	0.147	62	1.151	No
MOT	0.289	62	2.338	Up
NIT	0.149	62	1.167	No
PBT	-0.071	62	-0.551	No
SET	-0.322	26	-1.666	No
SRT	-0.190	62	-1.499	No
VT	-0.018	62	-0.139	No
ZNT	-0.083	62	-0.645	No
Total Up				5
Total Down				0
Total No				30

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Bread Cove Brook- NF02YS0010
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.264	101	-2.723	Down
COLORA	0.484	101	5.503	Up
TURB	0.460	101	5.155	Up
O2D	0.011	95	0.106	No
PHL	-0.230	101	-2.352	Down
CAD	-0.238	101	-2.438	Down
NAD	-0.313	101	-3.279	Down
MGD	-0.224	101	-2.287	Down
KD	-0.426	101	-4.685	Down
SO4IC	-0.263	101	-2.712	Down
CLD	-0.175	101	-1.769	No
DOC	0.149	101	1.499	No
PT	-0.116	100	-1.156	No
NO3NO2	0.065	101	0.648	No
NT	0.096	95	0.930	No
SID	-0.090	90	-0.848	No
ALT	0.178	100	1.791	No
AST	-0.151	58	-1.143	No
BAT	-0.104	100	-1.035	No
BET	-0.127	101	-1.274	No
CDT	-0.138	100	-1.379	No
COT	-0.006	98	-0.059	No
CRT	-0.035	98	-0.343	No
CUT	-0.308	98	-3.172	Down
FET	0.063	98	0.619	No
HGT	-0.551	79	-5.794	Down
LIT	-0.231	97	-2.314	Down
MNT	-0.010	98	-0.098	No
MOT	0.055	98	0.540	No
NIT	-0.019	98	-0.186	No
PBT	-0.285	98	-2.913	Down
SET	-0.179	46	-1.207	No
SRT	-0.213	98	-2.136	Down
VT	-0.135	98	-1.335	No
ZNT	-0.223	98	-2.241	Down
Total Up				2
Total Down				13
Total No				20

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Southwest Brook (@ Terra Nova National Park)- NF02YS0005
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.307	114	-3.414	Down
COLORA	0.166	114	1.781	No
TURB	0.279	114	3.075	Up
O2D	0.013	99	0.128	No
PHL	-0.028	114	-0.296	No
CAD	-0.258	108	-2.749	Down
NAD	-0.347	104	-3.737	Down
MGD	-0.271	108	-2.899	Down
KD	-0.250	104	-2.608	Down
SO4IC	-0.160	112	-1.700	No
CLD	-0.162	112	-1.722	No
DOC	-0.102	114	-1.085	No
PT	-0.236	112	-2.547	Down
NO3NO2	-0.027	112	-0.283	No
NT	0.071	108	0.733	No
SID	-0.136	103	-1.380	No
ALT	-0.164	114	-1.759	No
AST	-0.108	70	-0.896	No
BAT	-0.194	114	-2.093	Down
BET	0.416	115	4.863	Up
CDT	-0.267	114	-2.932	Down
COT	-0.226	111	-2.422	Down
CRT	-0.240	111	-2.581	Down
CUT	-0.245	110	-2.626	Down
FET	-0.068	111	-0.712	No
HGT	-0.167	94	-1.625	No
LIT	-0.247	110	-2.649	Down
MNT	-0.145	111	-1.530	No
MOT	0.238	111	2.558	Up
NIT	0.024	111	0.251	No
PBT	-0.284	111	-3.092	Down
SET	-0.135	49	-0.934	No
SRT	-0.187	111	-1.987	Down
VT	-0.223	111	-2.388	Down
ZNT	-0.139	111	-1.465	No
Total Up				3
Total Down				15
Total No				17

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Southern Bay River- NF02ZJ0024
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.278	109	-2.994	Down
COLORA	0.122	108	1.266	No
TURB	0.336	108	3.673	Up
O2D	0.004	97	0.039	No
PHL	0.108	109	1.124	No
CAD	-0.121	105	-1.237	No
NAD	-0.432	101	-4.766	Down
MGD	-0.103	105	-1.051	No
KD	0.081	101	0.809	No
SO4IC	-0.025	107	-0.256	No
CLD	-0.279	107	-2.977	Down
DOC	0.006	109	0.062	No
PT	-0.185	108	-1.938	No
NO3NO2	-0.152	107	-1.576	No
NT	0.066	103	0.665	No
SID	0.038	97	0.371	No
ALT	-0.049	109	-0.507	No
AST	0.003	65	0.024	No
BAT	-0.006	109	-0.062	No
BET	0.630	109	8.391	Up
CDT	0.368	109	4.094	Up
COT	0.088	106	0.901	No
CRT	0.129	106	1.327	No
CUT	-0.218	106	-2.278	Down
FET	0.087	106	0.891	No
HGT	-0.267	88	-2.569	Down
LIT	-0.078	105	-0.794	No
MNT	0.003	106	0.031	No
MOT	0.369	109	4.107	Up
NIT	0.195	106	2.028	Up
PBT	-0.216	106	-2.256	Down
SET	-0.188	48	-1.298	No
SRT	-0.097	106	-0.994	No
VT	0.106	106	1.087	No
ZNT	-0.107	106	-1.097	No
Total Up				5
Total Down				6
Total No				24

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Bay du Nord River- NF02ZF0020
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.248	36	-1.493	No
COLORA	-0.144	36	-0.849	No
TURB	0.065	36	0.380	No
O2D	0.279	34	1.644	No
PHL	-0.121	36	-0.711	No
CAD	-0.354	36	-2.207	Down
NAD	-0.345	35	-2.112	Down
MGD	-0.302	36	-1.847	No
KD	-0.625	35	-4.599	Down
SO4IC	0.015	35	0.086	No
CLD	0.089	35	0.513	No
DOC	-0.411	36	-2.629	Down
PT	-0.129	36	-0.759	No
NO3NO2	-0.186	35	-1.087	No
NT	-0.193	33	-1.095	No
SID	-0.109	35	-0.630	No
ALT	-0.286	36	-1.740	No
AST	-0.176	30	-0.946	No
BAT	-0.275	36	-1.668	No
BET	-	-	-	-
CDT	0.055	36	0.321	No
COT	0.057	35	0.328	No
CRT	-0.203	35	-1.191	No
CUT	0.236	35	1.395	No
FET	-0.238	35	-1.408	No
HGT	-0.426	36	-2.746	Down
LIT	-0.339	35	-2.070	Down
MNT	-0.139	35	-0.806	No
MOT	-0.157	35	-0.913	No
NIT	0.033	35	0.190	No
PBT	-0.525	35	-3.544	Down
SET	-0.528	23	-2.849	Down
SRT	-0.388	35	-2.418	Down
VT	-0.241	35	-1.426	No
ZNT	0.076	35	0.438	No
Total Up				0
Total Down				9
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Jeddore Lake- NF02ZE0018
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.603	38	-4.535	Down
COLORA	0.305	38	1.922	No
TURB	0.272	38	1.696	No
O2D	0.158	36	0.933	No
PHL	0.107	38	0.646	No
CAD	-0.558	38	-4.035	Down
NAD	-0.790	37	-7.623	Down
MGD	-0.758	38	-6.973	Down
KD	-0.645	37	-4.993	Down
SO4IC	-0.052	37	-0.308	No
CLD	-0.313	37	-1.950	No
DOC	-0.292	38	-1.832	No
PT	-0.132	38	-0.799	No
NO3NO2	0.173	37	1.039	No
NT	0.149	35	0.866	No
SID	0.333	37	2.089	Up
ALT	0.070	37	0.415	No
AST	-0.097	31	-0.525	No
BAT	0.026	37	0.154	No
BET	-	-	-	-
CDT	0.039	37	0.231	No
COT	-0.104	36	-0.610	No
CRT	-0.046	36	-0.269	No
CUT	0.209	36	1.246	No
FET	0.048	36	0.280	No
HGT	-0.505	35	-3.361	Down
LIT	-0.294	36	-1.794	No
MNT	-0.075	36	-0.439	No
MOT	0.104	36	0.610	No
NIT	0.143	36	0.842	No
PBT	-0.266	36	-1.609	No
SET	-0.315	22	-1.484	No
SRT	-0.537	36	-3.712	Down
VT	0.115	36	0.675	No
ZNT	0.436	36	2.825	Up
Total Up				2
Total Down				7
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Ste. Genevieve River- NF02YA0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.136	82	-1.228	No
COLORA	0.095	82	0.854	No
TURB	0.093	82	0.835	No
O2D	-0.075	67	-0.606	No
PHL	-0.105	83	-0.950	No
CAD	-0.053	80	-0.469	No
NAD	-0.643	77	-7.271	Down
MGD	-0.160	80	-1.432	No
KD	0.237	77	2.113	Up
SO4IC	-0.188	80	-1.691	No
CLD	-0.259	80	-2.368	Down
DOC	-0.088	82	-0.790	No
PT	-0.151	83	-1.375	No
NO3NO2	0.224	79	2.017	Up
NT	0.300	76	2.705	Up
SID	0.069	82	0.619	No
ALT	-0.197	83	-1.808	No
AST	-0.020	68	-0.163	No
BAT	-0.096	83	-0.868	No
BET	0.535	83	5.699	Up
CDT	0.461	83	4.675	Up
COT	0.390	81	3.764	Up
CRT	0.293	81	2.724	Up
CUT	0.123	81	1.102	No
FET	-0.029	81	-0.258	No
HGT	-0.468	83	-4.766	Down
LIT	0.024	81	0.213	No
MNT	-0.091	81	-0.812	No
MOT	0.436	81	4.306	Up
NIT	0.240	81	2.197	Up
PBT	0.319	81	2.992	Up
SET	-0.157	47	-1.066	No
SRT	-0.094	81	-0.839	No
VT	0.257	81	2.364	Up
ZNT	0.247	81	2.266	Up
Total Up				12
Total Down				3
Total No				20

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Torrent River- NF02YC0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.371	79	-3.506	Down
COLORA	0.360	79	3.386	Up
TURB	-0.330	77	-3.027	Down
O2D	-	-	-	-
PHL	0.136	76	1.181	No
CAD	-0.166	73	-1.418	No
NAD	-0.457	70	-4.237	Down
MGD	-0.140	75	-1.208	No
KD	0.200	70	1.683	No
SO4IC	-0.348	70	-3.061	Down
CLD	-0.364	72	-3.270	Down
DOC	0.217	63	1.736	No
PT	-0.002	77	-0.017	No
NO3NO2	0.084	76	0.725	No
NT	0.240	78	2.155	Up
SID	-0.231	54	-1.712	No
ALT	-	-	-	-
AST	-0.625	45	-1.712	No
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				2
Total Down				5
Total No				9

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Portland Creek- NF02YE0004
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.193	106	-2.006	Down
COLORA	0.494	106	5.794	Up
TURB	0.431	106	4.871	Up
O2D	-0.080	97	-0.782	No
PHL	0.276	106	2.928	Up
CAD	0.200	106	2.082	Up
NAD	-0.715	104	-10.329	Down
MGD	0.111	106	1.139	No
KD	-0.380	104	-4.149	Down
SO4IC	-0.532	106	-6.407	Down
CLD	-0.534	106	-6.441	Down
DOC	0.399	106	4.438	Up
PT	-0.006	106	-0.061	No
NO3NO2	0.490	106	5.732	Up
NT	0.525	99	6.075	Up
SID	-0.028	96	-0.272	No
ALT	0.251	106	2.644	Up
AST	-0.029	64	-0.228	No
BAT	-0.342	106	-3.712	Down
BET	0.326	106	3.517	Up
CDT	0.322	106	3.469	Up
COT	0.329	104	3.519	Up
CRT	0.014	104	0.141	No
CUT	-0.263	104	-2.753	Down
FET	0.316	104	3.364	Up
HGT	-0.562	86	-6.227	Down
LIT	0.034	103	0.342	No
MNT	0.182	104	1.869	No
MOT	0.462	104	5.261	Up
NIT	0.372	104	4.047	Up
PBT	-0.148	104	-1.511	No
SET	-0.359	48	-2.609	Down
SRT	-0.132	104	-1.345	No
VT	0.028	104	0.283	No
ZNT	-0.079	104	-0.800	No
Total Up				14
Total Down				9
Total No				12

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Western Brook- NF02YE0005
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.096	106	-0.984	No
COLORA	0.360	106	3.935	Up
TURB	0.489	106	5.717	Up
O2D	-0.077	95	-0.745	No
PHL	0.214	107	2.245	Up
CAD	0.038	102	0.380	No
NAD	-0.409	99	-4.414	Down
MGD	-0.015	102	-0.150	No
KD	-0.182	99	-1.823	No
SO4IC	-0.154	105	-1.582	No
CLD	-0.204	105	-2.115	Down
DOC	0.382	106	4.215	Up
PT	-0.023	107	-0.236	No
NO3NO2	0.323	104	3.447	Up
NT	0.315	99	3.269	Up
SID	0.180	97	1.784	No
ALT	0.200	107	2.092	Up
AST	0.315	64	2.613	Up
BAT	-0.098	107	-1.009	No
BET	0.429	107	4.867	Up
CDT	0.409	107	4.593	Up
COT	0.304	105	3.239	Up
CRT	0.140	105	1.435	No
CUT	-0.365	105	-3.979	Down
FET	0.175	105	1.804	No
HGT	-0.446	87	-4.594	Down
LIT	-0.147	104	-1.501	No
MNT	0.136	105	1.393	No
MOT	0.305	105	3.250	Up
NIT	0.129	105	1.320	No
PBT	-0.028	105	-0.284	No
SET	-0.107	46	-0.714	No
SRT	-0.017	105	-0.173	No
VT	0.045	105	0.457	No
ZNT	-0.092	105	-0.938	No
Total Up				12
Total Down				4
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Main River- NF02YG0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.185	105	-1.911	No
COLORA	0.249	104	2.597	Up
TURB	0.415	105	4.629	Up
O2D	-0.060	86	-0.551	No
PHL	0.116	106	1.191	No
CAD	0.056	105	0.569	No
NAD	-0.400	103	-4.386	Down
MGD	-0.070	105	-0.712	No
KD	-0.247	103	-2.562	Down
SO4IC	-0.160	106	-1.653	No
CLD	-0.207	106	-2.158	Down
DOC	-0.008	105	-0.081	No
PT	-0.117	105	-1.196	No
NO3NO2	-0.015	105	-0.152	No
NT	0.142	98	1.406	No
SID	0.191	96	1.887	No
ALT	0.037	106	0.378	No
AST	-0.076	62	-0.590	No
BAT	-0.028	106	-0.286	No
BET	0.366	106	4.011	Up
CDT	0.135	106	1.389	No
COT	0.051	105	0.518	No
CRT	-0.084	105	-0.856	No
CUT	-0.312	105	-3.333	Down
FET	0.032	105	0.325	No
HGT	-0.398	85	-3.952	Down
LIT	-0.070	104	-0.709	No
MNT	0.001	105	0.010	No
MOT	0.093	105	0.948	No
NIT	0.087	105	0.886	No
PBT	-0.152	105	-1.561	No
SET	-0.162	45	-1.077	No
SRT	-0.087	105	-0.886	No
VT	0.104	105	1.061	No
ZNT	-0.187	105	-1.932	No
Total Up				3
Total Down				5
Total No				27

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Lomond River- NF02YH0018
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.061	108	-0.629	No
COLORA	0.362	109	4.017	Up
TURB	0.439	109	5.054	Up
O2D	-0.089	97	-0.871	No
PHL	-0.256	109	-2.739	Down
CAD	-0.057	105	-0.579	No
NAD	-0.398	102	-4.338	Down
MGD	0.070	105	0.712	No
KD	-0.332	102	-3.520	Down
SO4IC	-0.165	107	-1.714	No
CLD	-0.185	107	-1.929	No
DOC	0.333	109	3.653	Up
PT	-0.152	109	-1.591	No
NO3NO2	0.422	106	4.747	Up
NT	0.277	102	2.883	Up
SID	0.295	100	3.056	Up
ALT	0.025	109	0.259	No
AST	-0.010	67	-0.081	No
BAT	-0.243	109	-2.591	Down
BET	0.452	109	5.242	Up
CDT	0.434	109	4.983	Up
COT	-0.053	107	-0.544	No
CRT	0.029	107	0.297	No
CUT	-0.381	107	-4.223	Down
FET	0.099	107	1.019	No
HGT	-0.413	89	-4.230	Down
LIT	-0.057	106	-0.582	No
MNT	0.029	107	0.297	No
MOT	0.238	107	2.511	Up
NIT	0.070	107	0.719	No
PBT	-0.150	107	-1.555	No
SET	-0.163	47	-1.108	No
SRT	-0.146	107	-1.512	No
VT	0.073	107	0.750	No
ZNT	-0.210	107	-2.201	Down
Total Up				9
Total Down				7
Total No				19

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Upper Humber- NF02YL0011
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observation	Test Statistic	Is There a Trend?
CONDL	-0.114	55	-0.835	No
COLORA	0.384	55	3.028	Up
TURB	0.422	55	3.389	Up
O2D	-0.085	35	-0.490	No
PHL	0.222	56	1.673	No
CAD	-0.009	56	-0.066	No
NAD	-0.387	55	-3.055	Down
MGD	0.013	56	0.096	No
KD	-0.051	55	-0.372	No
SO4IC	-0.295	55	-2.248	Down
CLD	-0.235	55	-1.760	No
DOC	0.118	55	0.865	No
PT	-0.254	56	-1.930	No
NO3NO2	0.162	54	1.184	No
NT	0.177	50	1.246	No
SID	0.221	51	1.586	No
ALT	0.104	55	0.761	No
AST	-0.219	33	-1.250	No
BAT	0.020	55	0.146	No
BET	0.393	55	3.111	Up
CDT	0.340	55	2.632	Up
COT	0.088	54	0.637	No
CRT	0.125	54	0.909	No
CUT	-0.175	54	-1.282	No
FET	0.202	54	1.487	No
HGT	-0.587	45	-4.755	Down
LIT	-0.136	53	-0.980	No
MNT	0.089	54	0.644	No
MOT	0.359	54	2.774	Up
NIT	-0.021	54	-0.151	No
PBT	-0.184	54	-1.350	No
SET	-0.088	23	-0.405	No
SRT	-0.168	54	-1.229	No
VT	0.184	54	1.350	No
ZNT	0.049	54	0.354	No
Total Up				5
Total Down				3
Total No				27

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Humber Canal- NF02YK0022
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.023	35	0.132	No
COLORA	0.315	35	1.907	No
TURB	0.469	35	3.051	Up
O2D	-0.250	31	-1.390	No
PHL	0.424	37	2.770	Up
CAD	0.013	37	0.077	No
NAD	-0.424	37	-2.770	Down
MGD	0.201	37	1.214	No
KD	0.018	37	0.107	No
SO4IC	0.299	36	1.827	No
CLD	0.329	36	2.031	Up
DOC	0.045	35	0.259	No
PT	0.059	37	0.350	No
NO3NO2	0.282	34	1.663	No
NT	0.135	31	0.734	No
SID	0.163	37	0.977	No
ALT	-0.140	36	-0.824	No
AST	-0.239	31	-1.325	No
BAT	-0.088	36	-0.515	No
BET	-	-	-	-
CDT	-	-	-	-
COT	-0.166	35	-0.967	No
CRT	-0.061	35	-0.351	No
CUT	0.224	35	1.320	No
FET	-0.035	35	-0.201	No
HGT	-0.865	36	-10.052	Down
LIT	-0.057	35	-0.328	No
MNT	-0.012	35	-0.069	No
MOT	0.096	35	0.554	No
NIT	0.022	35	0.126	No
PBT	0.296	35	1.780	No
SET	0.042	22	0.188	No
SRT	-0.125	35	-0.724	No
VT	-0.099	35	-0.572	No
ZNT	0.304	35	1.833	No
Total Up				3
Total Down				2
Total No				28

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Lower Humber- NF02YL0012

Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.108	58	0.813	No
COLORA	0.179	58	1.362	No
TURB	0.551	58	4.941	Up
O2D	-0.130	51	-0.918	No
PHL	0.298	59	2.357	Up
CAD	0.288	59	2.271	Up
NAD	-0.399	58	-3.256	Down
MGD	0.239	59	1.858	No
KD	-0.323	58	-2.554	Down
SO4IC	-0.031	58	-0.232	No
CLD	-0.232	58	-1.785	No
DOC	0.204	58	1.559	No
PT	-0.204	59	-1.573	No
NO3NO2	0.350	57	2.771	Up
NT	0.260	52	1.904	No
SID	0.276	53	2.051	Up
ALT	0.192	58	1.464	No
AST	-0.167	34	-0.958	No
BAT	-0.339	58	-2.697	Down
BET	0.185	58	1.409	No
CDT	0.137	58	1.035	No
COT	0.023	57	0.171	No
CRT	-0.096	57	-0.715	No
CUT	-0.181	57	-1.365	No
FET	0.310	57	2.418	Up
HGT	-0.505	46	-3.881	Down
LIT	0.038	56	0.279	No
MNT	0.068	57	0.505	No
MOT	0.240	57	1.833	No
NIT	0.196	57	1.482	No
PBT	-0.244	57	-1.866	No
SET	-0.179	23	-0.834	No
SRT	0.124	57	0.927	No
VT	0.065	57	0.483	No
ZNT	-0.058	57	-0.431	No
Total Up				6
Total Down				4
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Wild Cove Brook- NF02YL0029

Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observation	Test Statistic	Is There a Trend?
CONDL	0.084	74	0.715	No
COLORA	0.042	74	0.357	No
TURB	0.373	74	3.411	Up
O2D	-0.439	67	-3.939	Down
PHL	-0.423	75	-3.989	Down
CAD	0.152	75	1.314	No
NAD	-0.065	73	-0.549	No
MGD	0.034	75	0.291	No
KD	0.482	73	4.635	Up
SO4IC	-0.172	75	-1.492	No
CLD	-0.005	75	-0.043	No
DOC	0.216	74	1.877	No
PT	0.218	74	1.895	No
NO3NO2	0.312	74	2.787	Up
NT	0.322	67	2.742	Up
SID	0.205	75	1.790	No
ALT	0.215	72	1.842	No
AST	-0.292	58	-2.285	Down
BAT	0.366	72	3.290	Up
BET	0.246	72	2.123	Up
CDT	0.188	72	1.601	No
COT	0.124	72	1.046	No
CRT	0.186	72	1.584	No
CUT	0.160	72	1.356	No
FET	0.370	72	3.332	Up
HGT	-0.342	71	-3.023	Down
LIT	0.514	72	5.013	Up
MNT	0.341	72	3.035	Up
MOT	-0.179	72	-1.522	No
NIT	0.485	72	4.640	Up
PBT	0.161	72	1.365	No
SET	-0.094	44	-0.612	No
SRT	0.100	72	0.841	No
VT	0.130	72	1.097	No
ZNT	0.254	72	2.197	Up
Total Up				11
Total Down				4
Total No				20

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Corner Brook- NF02YL0013
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	0.106	105	1.082	No
COLORA	0.347	105	3.755	Up
TURB	0.405	104	4.474	Up
O2D	-0.023	93	-0.219	No
PHL	0.078	106	0.798	No
CAD	0.103	107	1.061	No
NAD	-0.060	104	-0.607	No
MGD	0.133	107	1.375	No
KD	0.023	104	0.232	No
SO4IC	-0.002	106	-0.020	No
CLD	-0.003	106	-0.031	No
DOC	0.332	106	3.589	Up
PT	-0.106	107	-1.092	No
NO3NO2	0.235	105	2.454	Up
NT	0.232	99	2.349	Up
SID	0.247	98	2.497	Up
ALT	0.233	105	2.432	Up
AST	0.071	64	0.560	No
BAT	0.075	105	0.763	No
BET	0.167	105	1.719	No
CDT	0.156	105	1.603	No
COT	0.146	104	1.490	No
CRT	0.109	104	1.107	No
CUT	-0.331	104	-3.543	Down
FET	0.255	104	2.663	Up
HGT	-0.375	85	-3.685	Down
LIT	0.035	103	0.352	No
MNT	0.069	104	0.699	No
MOT	0.239	104	2.486	Up
NIT	0.091	104	0.923	No
PBT	-0.172	104	-1.763	No
SET	-0.230	45	-1.550	No
SRT	0.050	104	0.506	No
VT	0.026	104	0.263	No
ZNT	0.026	104	0.263	No
Total Up				9
Total Down				2
Total No				24

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Pinchgut Brook- NF02YJ0004
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.164	104	-1.679	No
COLORA	0.320	104	3.411	Up
TURB	0.444	104	5.005	Up
O2D	-0.112	96	-1.093	No
PHL	-0.321	105	-3.440	Down
CAD	-0.088	104	-0.892	No
NAD	-0.601	103	-7.557	Down
MGD	-0.082	105	-0.835	No
KD	-0.312	103	-3.300	Down
SO4IC	-0.236	105	-2.465	Down
CLD	-0.425	105	-4.765	Down
DOC	0.159	104	1.627	No
PT	-0.158	105	-1.624	No
NO3NO2	0.234	104	2.431	Up
NT	0.144	96	1.411	No
SID	0.302	95	3.055	Up
ALT	-0.052	104	-0.526	No
AST	-0.133	61	-1.031	No
BAT	-0.348	104	-3.749	Down
BET	0.333	104	3.567	Up
CDT	0.333	104	3.567	Up
COT	-0.098	103	-0.990	No
CRT	-0.098	103	-0.990	No
CUT	-0.301	103	-3.172	Down
FET	0.149	103	1.514	No
HGT	-0.526	85	-5.635	Down
LIT	-0.071	102	-0.712	No
MNT	-0.029	103	-0.292	No
MOT	0.519	103	6.102	Up
NIT	0.029	103	0.292	No
PBT	-0.308	103	-3.254	Down
SET	-0.087	45	-0.573	No
SRT	-0.094	103	-0.949	No
VT	0.096	103	0.969	No
ZNT	-0.265	103	-2.762	Down
Total Up				7
Total Down				10
Total No				18

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Harry's River- NF02YJ0006
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.226	151	-2.832	Down
COLORA	0.209	151	2.609	Up
TURB	0.127	148	1.547	No
O2D	0.347	51	2.590	Up
PHL	0.135	148	1.646	No
CAD	-0.120	146	-1.450	No
NAD	-0.257	143	-3.158	Down
MGD	-0.191	148	-2.351	Down
KD	0.116	143	1.387	No
SO4IC	-0.400	141	-5.146	Down
CLD	-0.501	144	-6.898	Down
FD	-0.095	70	-0.787	No
DOC	0.028	118	0.302	No
PT	0.133	147	1.616	No
NO3NO2	-0.110	148	-1.337	No
NT	-0.099	145	-1.190	No
SID	-0.013	94	-0.125	No
ALT	0.101	33	0.565	No
AST	-0.385	75	-3.564	Down
BAT	-0.312	33	-1.828	No
BET	0.416	33	2.547	Up
CDT	0.461	33	2.892	Up
COT	-0.069	33	-0.385	No
CRT	0.191	33	1.083	No
CUT	0.096	33	0.537	No
FET	0.035	33	0.195	No
HGT	0.361	14	1.341	No
LIT	0.020	32	0.110	No
MNT	-0.080	33	-0.447	No
MOT	0.216	33	1.232	No
NIT	0.269	33	1.555	No
PBT	-0.144	33	-0.810	No
SET	-	-	-	-
SRT	-0.067	33	-0.374	No
VT	0.121	33	0.679	No
ZNT	-0.192	33	-1.089	No
Total Up				4
Total Down				6
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Lloyd's River- **NF02YN0001**

Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.085	102	-0.853	No
COLORA	0.084	114	0.892	No
TURB	0.473	113	5.656	Up
O2D	-0.157	105	-1.613	No
PHL	0.142	115	1.525	No
CAD	-0.037	104	-0.374	No
NAD	-0.316	101	-3.314	Down
MGD	-0.090	104	-0.913	No
KD	-0.510	101	-5.899	Down
SO4IC	-0.049	115	-0.522	No
CLD	-0.103	115	-1.101	No
DOC	0.042	102	0.420	No
PT	-0.147	116	-1.587	No
NO3NO2	0.342	114	3.852	Up
NT	0.016	108	0.165	No
SID	0.187	94	1.826	No
ALT	0.123	103	1.246	No
AST	0.022	59	0.166	No
BAT	-0.011	103	-0.111	No
BET	0.181	103	1.850	No
CDT	0.216	103	2.223	Up
COT	0.198	102	2.020	Up
CRT	0.116	102	1.168	No
CUT	-0.252	102	-2.604	Down
FET	0.125	102	1.260	No
HGT	-0.523	83	-5.522	Down
LIT	0.081	101	0.809	No
MNT	0.168	102	1.704	No
MOT	0.194	102	1.978	Up
NIT	0.045	102	0.450	No
PBT	-0.065	102	-0.651	No
SET	-0.007	46	-0.046	No
SRT	-0.060	102	-0.601	No
VT	0.212	102	2.169	Up
ZNT	-0.093	102	-0.934	No
Total Up				6
Total Down				4
Total No				25

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Crabbe's River- NF02ZA0007
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.044	93	-0.420	No
COLORA	-0.108	93	-1.036	No
TURB	0.334	93	3.380	Up
O2D	-0.118	81	-1.056	No
PHL	0.282	94	2.819	Up
CAD	-0.040	93	-0.382	No
NAD	-0.083	91	-0.786	No
MGD	0.015	93	0.143	No
KD	-0.128	91	-1.218	No
SO4IC	-0.083	94	-0.799	No
CLD	-0.007	94	-0.067	No
DOC	-0.250	93	-2.463	Down
PT	-0.155	94	-1.505	No
NO3NO2	-0.055	93	-0.525	No
NT	-0.065	87	-0.601	No
SID	0.059	94	0.567	No
ALT	-0.018	94	-0.173	No
AST	-0.099	62	-0.771	No
BAT	-0.004	94	-0.038	No
BET	0.285	94	2.852	Up
CDT	0.128	94	1.238	No
COT	0.222	93	2.172	Up
CRT	0.042	93	0.401	No
CUT	-0.338	93	-3.426	Down
FET	-0.005	93	-0.048	No
HGT	-0.254	86	-2.407	Down
LIT	0.127	93	1.221	No
MNT	0.214	93	2.090	Up
MOT	0.336	93	3.403	Up
NIT	0.106	93	1.017	No
PBT	-0.147	93	-1.418	No
SET	-0.235	46	-1.604	No
SRT	-0.026	93	-0.248	No
VT	-0.100	93	-0.959	No
ZNT	-0.010	93	-0.095	No
Total Up				6
Total Down				3
Total No				26

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

South Branch River- NF02ZA0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.140	104	-1.428	No
COLORA	0.040	104	0.404	No
TURB	0.412	104	4.567	Up
O2D	-0.055	92	-0.523	No
PHL	-0.014	105	-0.142	No
CAD	-0.165	105	-1.698	No
NAD	-0.154	104	-1.574	No
MGD	-0.126	105	-1.289	No
KD	-0.179	104	-1.837	No
SO4IC	-0.116	105	-1.185	No
CLD	-0.083	105	-0.845	No
DOC	-0.119	104	-1.210	No
PT	-0.171	105	-1.761	No
NO3NO2	0.112	104	1.138	No
NT	0.052	96	0.505	No
SID	-0.013	95	-0.125	No
ALT	0.002	105	0.020	No
AST	-0.064	62	-0.497	No
BAT	-0.061	105	-0.620	No
BET	0.289	105	3.064	Up
CDT	0.040	105	0.406	No
COT	0.096	104	0.974	No
CRT	0.000	104	0.000	No
CUT	-0.231	104	-2.398	Down
FET	0.027	104	0.273	No
HGT	-0.478	85	-4.958	Down
LIT	-0.020	103	-0.201	No
MNT	0.428	104	4.783	Up
MOT	0.006	104	0.061	No
NIT	0.005	104	0.050	No
PBT	-0.248	104	-2.585	Down
SET	-0.056	47	-0.376	No
SRT	-0.079	104	-0.800	No
VT	-0.159	104	-1.627	No
ZNT	0.012	104	0.121	No
Total Up				3
Total Down				3
Total No				29

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Grand Codroy River- NF02ZA0006
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.255	109	-2.728	Down
COLORA	0.055	109	0.570	No
TURB	0.395	109	4.448	Up
O2D	0.008	92	0.076	No
PHL	0.069	110	0.719	No
CAD	-0.277	109	-2.982	Down
NAD	-0.295	107	-3.164	Down
MGD	-0.169	109	-1.774	No
KD	-0.255	107	-2.702	Down
SO4IC	-0.245	110	-2.626	Down
CLD	-0.182	110	-1.924	No
DOC	-0.050	109	-0.518	No
PT	-0.057	109	-0.591	No
NO3NO2	-0.081	109	-0.841	No
NT	-0.082	101	-0.819	No
SID	0.231	100	2.350	Up
ALT	0.112	110	1.171	No
AST	-0.191	67	-1.569	No
BAT	-0.193	110	-2.044	Down
BET	0.139	110	1.459	No
CDT	0.028	110	0.291	No
COT	0.064	109	0.663	No
CRT	-0.146	109	-1.527	No
CUT	-0.249	109	-2.659	Down
FET	0.001	109	0.010	No
HGT	-0.187	90	-1.786	No
LIT	-0.086	108	-0.889	No
MNT	-0.083	109	-0.862	No
MOT	0.281	109	3.029	Up
NIT	0.187	109	1.969	Up
PBT	-0.240	109	-2.557	Down
SET	0.019	47	0.127	No
SRT	-0.277	109	-2.982	Down
VT	0.070	109	0.726	No
ZNT	0.018	109	0.186	No
Total Up				4
Total Down				9
Total No				22

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Isle aux Mort River- NF02ZB0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.192	73	-1.648	No
COLORA	0.131	73	1.113	No
TURB	-0.264	71	-2.274	Down
O2D	-	-	-	-
PHL	-0.095	71	-0.793	No
CAD	-0.118	68	-0.965	No
NAD	-0.080	64	-0.632	No
MGD	-0.158	70	-1.319	No
KD	0.174	64	1.391	No
SO4IC	-0.141	67	-1.148	No
CLD	-0.087	68	-0.709	No
DOC	0.073	55	0.533	No
PT	0.398	71	3.604	Up
NO3NO2	-0.024	70	-0.198	No
NT	0.067	70	0.554	No
SID	-0.211	46	-1.432	No
ALT	-	-	-	-
AST	-	-	-	-
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				1
Total Down				1
Total No				13

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Cing Cerf Brook- NF02ZB0005
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.043	66	-0.344	No
COLORA	0.083	66	0.666	No
TURB	0.368	65	3.141	Up
O2D	-0.154	59	-1.177	No
PHL	-0.048	67	-0.387	No
CAD	-0.069	67	-0.558	No
NAD	-0.112	67	-0.909	No
MGD	-0.042	67	-0.339	No
KD	-0.253	67	-2.108	Down
SO4IC	0.118	67	0.958	No
CLD	-0.014	67	-0.113	No
DOC	0.128	66	1.032	No
PT	0.128	67	1.041	No
NO3NO2	-0.122	66	-0.983	No
NT	-0.138	63	-1.088	No
SID	0.053	61	0.408	No
ALT	0.080	68	0.652	No
AST	-0.492	29	-2.937	Down
BAT	-0.131	68	-1.074	No
BET	0.003	68	0.024	No
CDT	0.081	68	0.660	No
COT	0.053	68	0.431	No
CRT	0.070	68	0.570	No
CUT	-0.147	68	-1.207	No
FET	-0.008	68	-0.065	No
HGT	-0.595	50	-5.129	Down
LIT	0.058	68	0.472	No
MNT	0.237	68	1.982	No
MOT	0.032	68	0.260	No
NIT	0.177	68	1.461	No
PBT	-0.032	68	-0.260	No
SET	-0.052	22	-0.233	No
SRT	-0.079	68	-0.644	No
VT	0.049	68	0.399	No
ZNT	-0.021	68	-0.171	No
Total Up				1
Total Down				3
Total No				31

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Grandy Brook- NF02ZC0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.274	90	-2.673	Down
COLORA	0.193	90	1.845	No
TURB	0.142	87	1.323	No
O2D	-	-	-	-
PHL	-0.185	89	-1.756	No
CAD	-0.168	87	-1.571	No
NAD	-0.188	83	-1.723	No
MGD	-0.237	88	-2.262	Down
KD	-0.051	83	-0.460	No
SO4IC	-0.145	85	-1.335	No
CLD	-0.203	87	-1.911	No
FD	-0.314	37	-1.957	No
DOC	0.093	79	0.820	No
PT	-0.164	88	-1.542	No
NO3NO2	-0.160	89	-1.512	No
NT	-0.180	88	-1.697	No
SID	-0.057	63	-0.446	No
ALT	0.027	35	0.155	No
AST	-0.411	37	-2.667	Down
BAT	-0.370	35	-2.288	Down
BET	0.515	35	3.451	Up
CDT	0.496	35	3.281	Up
COT	0.112	35	0.647	No
CRT	0.242	35	1.433	No
CUT	-0.003	35	-0.017	No
FET	0.092	35	0.531	No
HGT	-	-	-	-
LIT	-0.192	34	-1.107	No
MNT	0.137	35	0.794	No
MOT	0.169	35	0.985	No
NIT	0.006	35	0.034	No
PBT	-0.176	35	-1.027	No
SRT	-0.216	35	-1.271	No
VT	-0.111	35	-0.642	No
ZNT	-0.233	35	-1.376	No
Total Up				2
Total Down				4
Total No				27

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

White Bear River- NF02ZC0011
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.165	43	-1.071	No
COLORA	0.243	43	1.604	No
TURB	0.309	43	2.080	Up
O2D	-0.288	35	-1.728	No
PHL	-0.034	44	-0.220	No
CAD	-0.101	44	-0.658	No
NAD	-0.188	44	-1.240	No
MGD	-0.066	44	-0.429	No
KD	-0.294	44	-1.993	Down
SO4IC	-0.121	44	-0.790	No
CLD	-0.072	44	-0.468	No
DOC	-0.102	42	-0.648	No
PT	0.074	44	0.481	No
NO3NO2	-0.280	43	-1.868	No
NT	0.038	38	0.228	No
SID	-0.093	44	-0.605	No
ALT	-0.122	44	-0.797	No
AST	-0.400	31	-2.350	Down
BAT	-0.017	44	-0.110	No
BET	0.189	44	1.247	No
CDT	0.189	44	1.247	No
COT	0.239	44	1.595	No
CRT	0.227	44	1.511	No
CUT	0.277	44	1.868	No
FET	-0.274	44	-1.846	No
HGT	-0.509	44	-3.832	Down
LIT	-0.045	44	-0.292	No
MNT	-0.011	44	-0.071	No
MOT	0.458	44	3.339	Up
NIT	0.088	44	0.573	No
PBT	0.032	44	0.207	No
SET	-0.277	22	-1.289	No
SRT	-0.063	44	-0.409	No
VT	-0.057	44	-0.370	No
ZNT	-0.041	44	-0.266	No
Total Up				2
Total Down				3
Total No				30

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Grey River- NF02ZD0003
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.368	59	-2.988	Down
COLORA	0.288	59	2.271	Up
TURB	-0.067	57	-0.498	No
O2D	-	-	-	-
PHL	-0.213	58	-1.631	No
CAD	-0.206	56	-1.547	No
NAD	-0.261	53	-1.931	No
MGD	-0.258	57	-1.980	Down
KD	-0.363	53	-2.782	Down
SO4IC	-0.201	53	-1.465	No
CLD	-0.259	55	-1.952	No
FD	-0.074	34	-0.420	No
DOC	0.118	48	0.806	No
PT	0.202	58	1.543	No
NO3NO2	-0.090	57	-0.670	No
NT	-0.080	58	-0.601	No
SID	0.033	41	0.206	No
ALT	-	-	-	-
AST	-0.346	36	-2.150	Down
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				1
Total Down				4
Total No				12

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Churchill Falls- NF03OE0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.154	42	-0.986	No
COLORA	0.233	40	1.477	No
TURB	-0.062	40	-0.383	No
O2D	-	-	-	-
PHL	0.063	41	0.394	No
CAD	-0.085	39	-0.519	No
NAD	0.108	39	0.661	No
MGD	-0.077	39	-0.470	No
KD	0.345	39	2.236	Up
SO4IC	-0.278	37	-1.712	No
CLD	-0.128	39	-0.785	No
DOC	-0.056	35	-0.322	No
PT	0.090	41	0.564	No
NO3NO2	0.067	40	0.414	No
NT	0.308	41	2.022	Up
SID	-0.006	30	-0.032	No
ALT	-	-	-	-
AST	-	-	-	-
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				2
Total Down				0
Total No				13

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Eagle River- NF03QC0001
Spearman Rank Correlation Coefficients for Agreement Water Quality Parameters

	Spearman's R	Number of Observations	Test Statistic	Is There a Trend?
CONDL	-0.159	44	-1.044	No
COLORA	0.172	44	1.132	No
TURB	-0.331	43	-2.246	Down
O2D	-	-	-	-
PHL	-0.149	44	-0.977	No
CAD	-0.031	42	-0.196	No
NAD	-0.006	42	-0.038	No
MGD	-0.053	42	-0.336	No
KD	0.290	42	1.916	No
SO4IC	-0.174	42	-1.118	No
CLD	-0.231	41	-1.483	No
DOC	-0.246	36	-1.480	No
PT	0.020	44	0.130	No
NO3NO2	0.338	43	2.300	Up
NT	0.321	43	2.170	Up
SID	-0.027	31	-0.145	No
ALT	-	-	-	-
AST	-	-	-	-
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total Up				2
Total Down				1
Total No				12

no trend if	(for infinite degrees of freedom)	
1.645		0.05
-1.96<t<1.96	**alpha**	**0.025 5% significance**
2.326		0.01
2.576		0.005

Appendix E:
Monthly Spearman Trend Analysis

Hearts Content Brook- NF02ZL0002

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.561	0.295	0.317	0.671	-0.483	-0.517	-0.667	-0.335	0.286	-0.483	-0.517	0.126	-0.167	-0.741*	-0.500	-0.595	0.067	0.866
February	-0.527	0.125	0.579	-0.807*	-0.115	-0.159	-0.527	-0.316	-0.232	-0.236	-0.345	-0.298	-0.226	-0.557	-0.100	-0.667	-0.693*	0.207
March	0.262	0.123	0.755*	0.252	0.262	0.299	0.120	0.342	0.289	0.381	0.357	0.096	-0.452	-0.634	0.310	0.464	-0.479	0.258
April	-0.592*	0.511	0.182	-0.012	0.186	-0.055	-0.685*	-0.290	-0.299	-0.648*	-0.305	0.120	-0.371	-0.019	0.385	-0.018	-0.497	0.365
May	0.000	0.412	-0.108	0.000	0.071	0.108	0.048	0.049	0.252	0.240	-0.024	0.157	-0.571	-0.577	0.476	0.090	-0.635	0.000
June	0.250	0.237	0.183	0.100	0.153	0.454	0.142	0.176	-0.086	0.383	0.333	0.209	-0.133	0.050	0.717*	-0.262	-0.267	-0.293
July	0.071	0.049	-0.133	0.290	0.024	0.238	0.429	0.258	0.541	-0.599	-0.048	0.000	-0.524	0.764*	-0.143	-0.238	0.143	0.707
August	0.234	0.410	0.075	0.454	-0.117	0.598	0.200	0.586	-0.479	0.017	0.350	0.644	0.100	-0.548	0.577	0.767*	0.134	0.207
September	0.000	0.784**	0.667	0.036	-0.595	0.778*	-0.048	0.552	0.123	0.643	0.095	0.563	-0.407	-0.577	0.286	0.857***	-0.119	0.000
October	-0.524	0.678**	0.358	0.146	0.182	-0.211	-0.445	-0.384	-0.238	-0.413	-0.741***	0.606*	-0.280	0.163	-0.043	0.273	0.042	0.069
November	-0.117	0.720*	0.594	-0.427	-0.667	-0.008	-0.385	0.298	0.616	0.780*	0.100	0.550	-0.477	0.455	-0.167	-0.120	0.300	0.289
December	-0.406	0.532	0.699*	0.463	0.529	-0.195	-0.515	-0.207	0.573	0.061	-0.127	0.024	-0.552	0.261	0.350	-0.200	-0.358	-0.309
Pos	6	12	10	9	7	6	5	7	7	7	5	11	1	5	7	5	5	10
Neg	6	0	2	3	5	6	7	5	5	5	7	1	11	7	5	7	7	2
Trend	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	no trend	no trend	no trend	pos trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.339	0.548	0.548	0.494	0.548	-0.385	0.300	-0.060	-0.691	0.400	-0.091	0.224	-0.128	0.894	-0.460	0.000	-0.445
February	-0.466	0.522	0.522	-0.304	0.017	-0.612	-0.345	0.148	-0.259	0.030	0.435	-0.205	-0.019	-0.775	-0.354	0.262	-0.492
March	-0.167	-	-	0.056	-0.577	-0.736	-0.143	-0.878	-0.127	0.190	-	0.277	-0.878**	-	0.386	-0.770*	0.157
April	-0.529	0.648*	0.648*	-0.062	0.461	-0.255	-0.014	-0.342	0.059	0.000	0.184	0.291	-0.067	0.000	-0.439	0.376	-0.585
May	0.024	-	-	0.000	-	-0.301	-0.048	-0.866*	-0.485	-0.429	0.082	-0.412	-0.282	0.211	-0.048	-0.639	-0.228
June	-0.387	0.548	0.548	0.346	0.548	-0.185	-0.467	-0.507	0.321	-0.700*	0.207	0.414	0.588	-0.894	-0.042	0.730*	-0.588
July	0.167	0.577	0.630	0.000	0.041	-0.699	-0.357	-0.474	0.089	-0.571	0.577	0.109	-0.166	-0.894	0.333	0.613	0.012
August	-0.437	-	-	0.414	-0.548	-0.117	-0.517	-0.873**	-0.578	-0.833***	-	-0.548	-0.772*	-0.738	0.762*	-0.129	0.329
September	0.156	-	-	-0.183	-0.082	-0.512	-0.595	-0.866*	0.165	-0.762*	0.412	-	-0.520	-0.258	0.865***	-0.214	0.060
October	-0.088	0.480	0.389	-0.147	0.000	0.254	0.189	-0.319	0.479	-0.648*	0.480	0.194	-0.081	-0.775	-0.292	0.503	-0.207
November	0.025	-	-	0.183	-0.536	-0.599	0.359	-0.561	-0.309	0.619	-	-0.265	-0.495	-0.316	0.491	-0.395	0.132
December	-0.402	-	-	0.116	-	-0.254	0.183	-0.873**	0.000	-0.533	0.274	-0.104	0.494	-0.775	-0.176	0.137	-0.457
Pos	4	6	6	8	6	1	4	1	6	5	8	6	2	3	5	7	5
Neg	8	0	0	4	4	11	8	11	6	7	1	5	10	8	7	5	7
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	no trend

Spout Cove Brook- NF02ZL0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.429	0.464	0.357	0.259	0.060	-0.714	-0.595	-0.464	-0.419	-0.476	-0.357	0.244	-0.299	-0.381	-0.452	-0.342	-0.024	0.258
February	-0.263	-0.218	0.479	0.446	-0.024	-0.299	-0.429	-0.108	0.196	-0.238	-0.357	-0.048	-0.335	-0.503	-0.286	-0.679	0.048	-0.447
March	-0.429	0.049	0.643	-0.060	0.476	0.000	-0.357	-0.262	0.530	0.333	-0.214	0.119	-0.476	0.467	0.048	0.500	-0.036	-
April	-0.720*	0.035	0.717*	0.288	0.185	-0.700*	-0.800**	-0.444	0.093	-0.150	-0.517	0.117	-0.218	0.176	0.333	0.286	-0.350	-0.393
May	-0.429	0.439	0.571	0.530	-0.333	-0.238	-0.238	-0.286	-0.537	-0.333	-0.262	0.190	-0.169	-0.115	0.714	0.143	0.563	0.000
June	-0.452	0.417	0.410	0.143	0.108	-0.602	-0.643	-0.415	-0.135	-0.491	-0.524	0.095	-0.071	0.210	0.252	0.324	0.419	-0.894
July	-0.072	0.165	0.536	0.232	0.250	0.216	-0.536	-0.071	-0.412	-0.775	-0.607	0.071	-0.643	0.535	0.464	0.143	0.214	-
August	-0.964****	0.299	0.148	0.408	0.071	-0.667	-0.607	-0.704	-1.000****	-0.685	-0.679	0.286	0.643	0.039	0.071	0.750	-0.143	-0.775
September	-0.467	0.481	0.683	0.407	-0.024	-0.643	-0.643	-0.587	-0.446	-0.167	-0.476	0.687	0.277	-0.592	-0.714	0.714	0.190	-0.707
October	0.033	0.239	0.750*	0.075	0.437	0.176	-0.283	-0.269	-0.604	0.109	-0.333	0.563	-0.184	-0.104	0.571	0.405	-0.050	-0.707
November	-0.233	0.316	0.467	-0.350	-0.067	0.083	-0.351	-0.050	-0.055	0.350	0.167	0.351	-0.427	-0.128	0.012	-0.024	0.109	-0.289
December	-0.050	0.410	0.686	-0.288	0.733*	-0.217	-0.350	0.083	0.444	0.059	0.083	-0.250	-0.333	-0.136	-0.429	-0.024	-0.717*	-0.866
Pos	1	11	12	9	8	4	0	1	4	4	2	10	2	5	8	8	6	2
Neg	11	1	0	3	4	8	12	11	8	8	10	2	10	7	4	4	6	8
Trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	no trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.479	-	-	-0.247	-0.247	-0.542	0.167	-0.828	-0.102	0.333	-0.247	0.171	-0.609	0.894	-0.500	-0.124	-0.635
February	-0.209	-	-	0.620	-0.082	0.128	0.310	0.213	0.282	0.299	-	-0.065	-0.546	-0.949	-0.132	-0.345	-0.707
March	-0.018	-	-	0.577	-0.401	0.429	0.071	-0.866	0.148	0.143	-0.401	-0.535	0.000	-	-0.071	-0.225	-0.342
April	-0.728*	-	-	-0.091	-	-0.454	0.067	-0.339	-0.076	-0.050	-0.365	0.365	-0.481	0.775	-0.746*	-0.657	-0.495
May	0.049	-	0.252	0.300	0.000	-0.317	0.738*	-0.281	0.000	0.790*	-0.247	0.382	-0.233	0.447	-0.431	-0.217	-0.096
June	-0.700	-0.082	-0.082	0.094	0.203	-0.651	0.143	-0.866*	-0.173	0.190	-0.082	0.378	-0.464	-0.949	-0.790*	0.300	-0.359
July	-0.036	-	-	-	0.134	-0.709	0.214	-0.555	-0.458	0.571	-	-0.612	-0.535	-0.258	-0.144	0.577	0.148
August	-0.418	-	-	0.158	-0.630	-0.306	-0.143	-0.828	-0.315	0.071	-	-0.535	-0.535	-0.738	-0.883*	-0.296	0.727
September	-0.383	-	-	0.252	-	-0.368	0.762*	-0.866*	-0.404	0.381	0.000	-	-0.846**	-0.775	-0.719	-0.289	0.101
October	-0.252	-	0.274	0.274	-0.183	0.579	0.283	0.134	0.632	0.333	-0.548	0.378	0.000	-0.894	0.068	-0.075	-0.070
November	-0.092	-0.411	-0.411	-0.605	-0.682	-0.335	0.238	-0.374	-0.096	0.690	-0.764*	-0.548	-0.709	-0.949	-0.145	-0.503	-0.108
December	-0.675	-	-	-	-0.247	-0.143	-0.738*	-0.279	-0.439	-0.383	-	-0.300	-0.791*	-0.775	-0.410	-0.519	-0.342
Pos	1	0	2	7	3	3	10	2	4	10	1	5	2	3	1	2	3
Neg	11	2	2	3	7	9	2	10	8	2	7	6	10	8	11	10	9
Trend	neg trend			no trend	no trend	neg trend	pos trend	neg trend	no trend	pos trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend

Goulds Brook- NF02ZL0029

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.771	0.039	-0.306	0.200	-0.464	0.179	0.543	0.679	-0.638	0.143	0.679	0.054	-0.643	-0.071	-0.393	-0.319	-0.703	-0.621
February	-0.036	0.189	0.464	0.667	0.286	0.036	0.107	-0.234	-0.643	0.750	0.321	0.058	-0.771	0.000	-0.829	-0.679	-0.536	-0.216
March	0.464	0.546	0.107	-0.400	-0.357	0.500	0.486	0.464	0.200	0.857*	0.857*	0.643	-0.107	0.500	-0.036	0.214	-0.679	-
April	0.564	0.727*	0.492	-0.234	-0.340	0.548	0.536	0.500	0.000	0.782**	0.742*	0.772**	-0.733*	0.134	-0.633	-0.115	-0.274	-0.412
May																		
June	0.750	-0.418	-0.071	0.509	-0.250	0.500	0.857*	0.429	-0.214	0.857*	0.857*	-0.468	-0.714	0.036	-0.179	0.179	-0.643	-0.293
July	0.455	0.142	-0.127	-0.255	0.428	0.117	0.714	0.067	0.095	0.515	0.818***	0.547	-0.945****	-0.782**	-0.818***	0.319	0.150	0.026
August																		
September	0.119	0.501	0.311	-0.549	0.357	-0.143	0.738*	-0.286	-0.619	0.714	0.905****	0.024	-0.826*	-0.690	-0.750	-0.690	0.071	-0.636
October	0.829****	-0.263	-0.601	0.619	0.592	0.500	0.667	0.745*	0.024	0.782**	0.600	-0.146	-0.818****	-0.842****	-0.697*	0.242	-0.636	-0.840****
November	0.000	0.401	-0.286	0.536	0.750	-0.090	0.464	-0.018	-0.090	0.571	0.357	-0.214	-0.679	-0.536	-0.771	-0.857*	-0.679	-0.207
December																		
Pos	8	7	4	5	5	7	9	6	4	9	9	6	0	4	0	4	2	1
Neg	1	2	5	4	4	2	0	3	5	0	0	3	9	5	9	5	7	7
Trend	pos trend	pos trend	no trend	no trend	no trend	pos trend	pos trend	no trend	no trend	pos trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.829*	0.612	0.612	-0.498	0.612	0.056	-0.321	-0.433	0.000	-0.250	0.612	0.866*	-0.075	0.894	0.714	0.408	0.857*
February	0.309	0.612	0.612	0.267	0.223	-0.611	-0.821*	0.055	0.094	-0.393	0.316	0.039	0.757	-0.775	0.090	0.020	0.536
March	0.714	0.612	0.612	-0.408	0.623	-0.673	-0.559	0.134	-0.296	-0.143	0.000	0.612	-0.075	-	0.464	-0.612	0.643
April	0.256	0.522	0.522	-0.375	0.388	0.475	-0.503	-0.085	-0.058	-0.673*	0.190	0.737*	-0.158	0.000	0.406	-0.079	0.546
May																	
June	-0.306	0.612	0.612	-0.408	0.045	-0.449	-0.750	-0.433	0.327	-0.893**	0.474	0.612	0.612	-0.949	0.393	0.791*	-0.291
July	-0.132	0.581	0.581	0.565	0.407	0.248	0.336	0.217	-0.391	0.127	0.462	0.618	0.346	-	0.351	0.175	-0.110
August																	
September	0.602	-	-	-0.126	-	0.086	0.024	-0.183	-0.306	0.190	-0.056	0.412	0.183	-0.775	0.060	-0.756*	0.238
October	-0.064	0.522	0.289	-0.308	0.418	0.427	-0.818****	-0.080	0.000	-0.364	0.554	0.000	0.035	-0.258	0.709**	-0.136	0.159
November	-0.559	-	-0.612	-0.845	-	-0.029	-0.943**	-0.501	0.030	-0.657	0.414	0.507	0.655	-0.258	-0.086	-0.912*	0.348
December																	
Pos	5	7	7	2	7	5	2	3	5	2	8	9	6	2	8	4	7
Neg	4	0	1	7	0	4	7	6	4	7	1	0	3	5	1	5	2
Trend	no trend	pos trend	pos trend	neg trend	pos trend	no trend	neg trend	no trend	no trend	neg trend	pos trend	pos trend	no trend	no trend	pos trend	no trend	pos trend

Broad Cove Brook- NF02ZM0020

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.383	-0.07	0.226	0.218	0.017	-0.067	0.318	0.1	-0.328	-0.05	0.583	-0.051	-0.367	-0.008	-0.117	0.143	0.31	-0.289
February	0.383	0.083	0.700*	-0.455	0.267	0.383	0.429	0.134	0.119	-0.133	0.517	0.067	-0.427	-0.218	-0.167	-0.024	-0.084	-
March	0.845****	-0.067	0.405	-0.034	0.825****	0.731**	0.745**	0.538	-0.166	0.636*	0.845****	-0.146	-0.187	0.211	0.436	0.479	-0.609	-0.418
April	0.509	0.480	0.059	-0.100	-0.055	0.286	0.500	-0.097	0.083	-0.100	0.697*	-0.110	-0.518	0.476	0.382	0.091	0.091	0.371
May	0.633	-0.168	0.349	-0.368	0.367	367.000	0.583	0.184	0.017	0.435	0.750*	-0.643	-0.653	0.162	0.100	-0.671	-0.467	0.621
June	0.600	-0.244	-0.300	-0.955***	-0.100	0.452	0.643	-0.071	0.250	0.109	0.783**	-0.201	-0.633	-0.111	0.183	0.000	-0.367	0.135
July	0.433	0.247	0.333	0.143	-0.176	0.377	0.483	0.167	-0.134	0.100	0.667	0.059	-0.168	-0.227	0.550	0.067	-0.067	0.621
August	-0.310	0.466	0.539	0.146	0.214	-0.571	-0.357	-0.619	-0.786*	-0.405	0.024	0.168	-0.171	-0.132	-0.024	-0.810*	0.429	0.224
September	-0.043	0.837****	0.576	-0.546	-0.316	-0.171	0.127	-0.600	-0.322	-0.176	0.552	0.912****	0.663	-0.142	0.862***	-0.091	0.855****	-0.612
October	0.261	0.646	0.644	0.146	0.122	0.030	0.133	0.234	0.261	0.091	0.614	0.527	0.248	0.427	0.450	0.750*	0.527	-0.507
November	0.248	0.773**	0.794***	-0.134	-0.042	-0.285	0.321	-0.159	0.000	-0.127	0.370	0.665	-0.212	0.197	0.300	0.583	0.430	-0.845
December	0.357	0.708	0.357	-0.505	-0.233	0.000	0.357	-0.250	0.180	-0.267	0.467	0.286	-0.067	-0.214	-0.048	0.381	0.283	-0.655
Pos	10	8	11	4	6	8	11	6	7	5	12	7	2	5	8	9	7	5
Neg	2	4	1	8	6	4	1	6	5	7	0	5	10	7	4	3	5	6
Trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend	pos trend	no trend	neg trend	no trend	no trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.068	-	-0.548	0.08	-0.548	-0.672	0.033	-0.777	0.135	0.267	0.411	0.164	-0.358	-0.775	0.109	0.18	-0.033
February	0.300	0.548	0.548	0.114	-0.091	0.118	0.038	-0.474	0.886****	0.067	0.548	-0.055	-0.406	0.000	0.333	-0.165	0.288
March	-0.087	0.671*	0.500	-0.470	0.632*	-0.556	-0.173	-0.018	0.193	-0.573	0.075	0.089	-0.244	-0.316	0.818****	-0.747**	-0.292
April	0.164	0.671*	0.447	0.132	0.302	-0.516	-0.173	-0.284	0.140	-0.018	0.213	0.088	-0.364	0.775	-0.032	-0.251	0.474
May	0.276	-	0.137	-0.381	-0.137	-0.326	-0.150	-0.756*	0.502	0.100	-	0.188	-0.438	0.000	0.267	-0.239	-0.728*
June	0.519	0.725*	0.725*	0.050	0.725*	-0.367	-0.711*	-0.252	0.687	0.000	0.639	0.707*	0.727*	0.000	0.109	-0.518	0.310
July	0.220	0.548	0.104	0.365	0.000	-0.127	0.017	-0.419	0.898****	0.150	0.725*	0.621	-0.009	0.447	0.326	0.083	-0.025
August	-0.036	0.577	0.000	0.926****	0.577	-0.639	0.238	-0.474	0.000	-0.405	-0.109	-0.109	-0.300	0.775	-0.381	0.153	0.898***
September	0.515	-	0.058	0.651	0.174	0.201	0.608	-0.030	0.334	0.576	-0.406	0.664	0.395	-	-0.280	0.130	0.748**
October	0.815***	0.522	0.722*	0.640	-0.275	-0.006	0.758**	0.355	0.715*	0.745**	0.609	0.094	-0.220	-0.258	0.273	-0.052	0.879****
November	0.217	-	-0.058	0.693	-0.518	0.354	0.450	-0.873**	0.586	0.000	-	-0.224	0.359	-0.775	0.033	0.056	0.025
December	-0.092	0.251	0.414	0.000	0.312	-0.743*	0.238	-0.579	0.184	0.119	0.577	0.089	0.268	-0.775	-0.214	-0.140	0.275
Pos	9	8	10	10	7	3	8	1	12	9	8	9	4	6	8	5	8
Neg	3	0	2	2	5	9	4	11	0	3	2	3	8	5	4	7	4
Trend	pos trend	pos trend	pos trend	pos trend	no trend	neg trend	no trend	neg trend	pos trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	pos trend

Virginia River (@ Outlet to Quidi Vidi Lake)- NF02ZM0014
Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.200	0.243	0.479	0.085	0.200	-0.406	-0.467	-0.576	0.117	0.432	-0.055	0.176	-0.472	0.503	0.636	0.483	-0.353	-0.393
February	0.055	-0.166	0.055	0.084	0.176	-0.006	0.300	-0.236	0.469	0.091	0.164	-0.207	-0.709	0.491	0.552	0.050	-0.321	0.207
March	0.167	-0.017	0.683	0.084	0.473	0.018	0.267	-0.224	0.383	0.473	0.091	-0.432	-0.736**	0.509	0.345	0.224	-0.661*	0.316
April	0.164	0.125	0.391	0.422	-0.018	0.176	0.517	0.347	0.517	0.418	0.164	-0.132	-0.500	0.645*	0.564	0.030	-0.282	0.179
May	-0.355	0.512	0.743**	-0.034	0.387	-0.758**	-0.017	-0.733**	0.167	0.445	0.018	-0.237	-0.152	0.227	0.358	0.248	0.064	0.630
June	-0.200	0.446	0.227	0.317	-0.055	-0.515	0.333	-0.486	0.333	0.492	-0.255	-0.100	-0.773***	0.383	0.664*	0.282	0.382	-0.189
July	-0.455	0.226	0.453	0.108	-0.073	-0.614	-0.133	-0.636	-0.367	0.304	-0.055	0.192	0.091	-0.116	0.445	-0.300	0.518	0.701
August	-0.618	0.582	0.209	-0.198	-0.014	-0.778**	-0.267	-0.855****	-0.433	0.418	-0.323	0.241	0.369	0.629*	0.430	-0.497	0.273	0.412
September	-0.769***	0.806****	0.578	-0.248	0.158	-0.818****	-0.602	-0.864****	-0.285	-0.477	-0.736**	0.432	0.252	0.436	0.627*	-0.748***	0.627*	-0.627
October	-0.440	0.634*	0.407	-0.487	0.655**	-0.616*	-0.155	-0.764***	0.032	0.077	-0.319	0.504	-0.465	0.490	0.713**	-0.056	0.467	0.037
November	0.018	0.660*	0.664*	-0.621*	0.582	-0.127	-0.067	-0.309	0.418	0.055	0.136	0.438	-0.227	-0.555	0.624	-0.115	0.155	-0.089
December	0.079	0.603	0.503	-0.510	0.560	-0.210	0.079	-0.667*	0.462	0.345	0.073	0.482	-0.082	0.455	0.236	-0.140	0.191	-0.677
Pos	5	10	12	6	8	2	5	1	9	11	6	7	3	10	12	6	8	7
Neg	7	2	0	6	4	10	7	11	3	1	6	5	9	2	0	6	4	5
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	no trend	pos trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.624	-0.850****	-0.735*	-0.825***	-0.550	-0.430	-0.200	0.220	0.018	-0.673*	-0.336	-0.390	-0.492	-0.775	-0.442	-0.505	-0.624
February	-0.091	-0.479	-0.281	-0.783**	-0.445	-0.341	-0.648*	-0.497	0.470	-0.600	0.522	-0.455	-0.327	0.000	-0.006	-0.329	-0.770*
March	-0.273	-0.825****	-0.548	-0.792***	0.112	-0.028	-0.418	-0.581	0.159	-0.173	0.139	-0.214	-0.653*	-	-0.145	-0.514	-0.691*
April	-0.109	-0.369	0.115	-0.527	0.058	-0.009	-0.055	-0.640	0.191	-0.682*	0.447	-0.255	-0.167	0.316	0.036	-0.214	-0.091
May	-0.809****	-0.562	0.255	-0.153	0.185	0.225	0.082	-0.596	0.041	-0.418	0.239	0.084	-0.158	-0.258	-0.682*	0.070	-0.500
June	-0.709**	0.164	0.346	-0.234	0.383	-0.261	0.255	-0.320	0.236	-0.091	0.462	0.497	0.117	-0.949	-0.673*	0.010	-0.391
July	-0.573	0.372	0.693*	-0.617	0.206	-0.156	0.455	0.411	-0.050	0.464	0.837****	0.927****	0.364	-0.775	-0.736**	0.850****	-0.318
August	-0.591	0.249	0.058	0.548	0.438	0.303	0.387	0.273	-0.209	0.100	0.130	0.277	0.293	-0.600	-0.845****	0.204	-0.209
September	-0.844****	0.464	0.641*	0.086	0.455	0.333	0.671**	0.570	-0.091	0.559	0.386	0.234	0.529	-0.258	-0.867****	0.102	-0.252
October	-0.846	0.381	-0.079	-0.411	0.099	0.633*	0.531	0.348	-0.157	0.429	0.395	0.100	0.112	-0.894	-0.846****	0.186	-0.418
November	-0.336	-0.032	0.382	-0.160	-0.074	0.806***	0.236	-0.170	0.280	-0.267	0.711*	-0.132	-0.200	-0.775	-0.152	-0.095	-0.491
December	-0.700*	-0.144	0.255	-0.585	0.179	0.103	0.261	0.099	0.178	-0.552	0.354	-0.449	0.055	-	-0.491	0.045	-0.309
Pos	0	5	8	2	9	6	8	6	8	4	11	6	6	2	1	7	0
Neg	12	7	4	10	3	6	4	6	4	8	1	6	6	8	11	5	12
Trend	neg trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	neg trend	neg trend	no trend	neg trend

Rennies River (@ Carnell Dr)- NF02YM0016

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.406	0.434	0.061	0.241	-0.030	-0.479	-0.717*	-0.345	-0.133	-0.091	-0.394	0.470	-0.624	0.079	0.309	0.167	-0.164	-0.207
February	0.091	-0.068	0.236	0.569	0.574	0.109	0.382	-0.078	0.285	0.191	0.291	-0.396	-0.418	0.182	0.455	0.067	-0.564	-0.193
March	0.100	0.141	-0.050	0.233	0.291	0.212	0.350	-0.073	0.500	0.391	0.182	0.069	-0.445	0.509	0.291	0.261	-0.518	0.356
April	0.000	0.351	-0.045	0.331	-0.018	0.079	0.333	0.200	0.126	0.255	0.000	-0.193	-0.629*	0.564	0.273	0.212	-0.041	0.217
May	0.027	0.332	0.100	-0.017	0.214	-0.636	0.167	-0.733*	-0.502	0.555	0.123	-0.471	-0.648*	0.433	-0.127	0.243	-0.261	0.267
June	-0.155	0.548	0.045	0.176	0.164	-0.333	0.383	-0.515	0.042	0.555	-0.027	0.073	-0.536	0.264	0.465	0.845****	0.355	-0.284
July	-0.264	-0.056	0.282	0.240	0.118	-0.273	0.067	-0.406	-0.150	0.212	0.079	0.402	-0.114	0.430	0.273	0.055	0.009	0.126
August	-0.009	0.381	0.314	-0.432	0.005	-0.378	0.167	-0.564	-0.250	0.651*	-0.032	0.361	0.091	0.571	0.733*	0.109	-0.027	-0.371
September	-0.580	0.479	0.585	0.110	0.105	-0.691*	-0.236	-0.818****	-0.693	0.027	-0.409	0.516	-0.879****	0.442	0.415	0.364	0.767***	-0.730*
October	-0.522	0.563*	0.294	0.382	0.775****	-0.622*	-0.114	-0.658*	-0.519	0.238	-0.070	0.681**	-0.594*	0.622*	0.517	0.455	0.396	-0.142
November	-0.245	0.716**	0.645*	-0.347	0.500	-0.473	-0.358	-0.456	-0.200	-0.396	-0.200	0.676*	-0.636*	0.736**	0.697*	0.200	-0.182	-0.223
December	0.006	0.565	0.511	-0.371	0.227	-0.152	0.285	-0.433	0.128	0.527	0.369	0.321	-0.688*	0.419	0.248	0.067	0.292	-0.236
Pos	5	10	10	8	10	3	8	1	5	10	6	9	1	12	11	12	5	4
Neg	7	2	2	4	2	9	4	11	7	2	6	3	11	0	1	0	7	8
Trend	no trend	pos trend	pos trend	no trend	pos trend	no trend	no trend	neg trend	no trend	pos trend	no trend	pos trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.243	-0.052	-0.640	-0.289	-0.260	-0.370	-0.552	-0.481	-0.025	-0.733*	0.221	-0.337	-0.590	-	-0.430	0.019	-0.358
February	0.082	-0.263	-0.240	-0.348	-0.279	-0.014	-0.591	-0.119	0.392	-0.527	0.353	-0.129	-0.434	0.000	0.109	-0.439	-0.055
March	-0.227	-0.323	-0.501	-0.670*	-0.009	-0.137	-0.536	-0.301	0.127	-0.573	0.669*	-0.244	-0.255	-0.866	-0.055	-0.361	-0.473
April	-0.191	-0.060	-0.229	-0.282	0.264	0.424	-0.545	-0.657*	0.280	-0.309	0.156	-0.080	-0.511	0.316	-0.082	0.151	0.064
May	-0.705*	0.178	-0.250	-0.673*	0.218	-0.407	-0.382	-0.487	0.079	-0.745**	0.798***	0.098	-0.274	-0.500	-0.770**	0.056	-0.248
June	-0.491	0.253	0.156	-0.398	0.244	-0.510	-0.218	-0.203	0.377	-0.645*	0.244	0.492	-0.206	-0.600	-0.573	0.097	0.032
July	-0.527	0.000	0.267	-0.623*	0.383	0.538	-0.191	0.271	0.082	-0.847****	0.633*	0.713**	-0.294	-	-0.482	0.435	-0.041
August	-0.055	0.598	0.025	-0.206	0.594	0.382	0.300	0.110	0.352	-0.682*	0.353	0.299	-0.348	-0.316	-0.509	0.307	-0.036
September	-0.636*	0.543	0.000	-0.739***	0.182	0.497	0.144	0.841****	0.239	-0.559	0.760***	-0.007	-0.078	0.258	-0.760***	0.220	0.676**
October	-0.654**	0.385	-0.403	-0.795****	-0.380	0.174	-0.115	-0.138	0.050	-0.874****	0.201	-0.285	-0.420	-0.775	-0.760***	-0.003	-0.209
November	-0.527	-0.292	-0.708*	-0.576	-0.157	-0.024	-0.297	-0.293	-0.436	-0.721*	0.066	-0.080	-0.409	-0.775	-0.358	-0.215	-0.588
December	-0.300	-0.255	-0.523	-0.519	0.389	0.128	-0.564	-0.438	-0.036	-0.316	0.389	-0.470	-0.419	-0.775	-0.382	0.156	-0.012
Pos	1	6	4	0	7	6	2	3	9	0	12	4	0	3	1	8	3
Neg	11	6	8	12	5	6	10	9	3	12	0	8	12	7	11	4	9
Trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Waterford River (@ Kilbride)- NF02ZM0009

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.103	0.039	0.018	-0.072	0.164	-0.321	0.083	-0.455	0.117	0.091	-0.024	0.544	-0.406	0.723*	0.770**	0.400	-0.515	0.030
February	0.418	0.547	0.492	0.086	0.297	-0.030	0.328	-0.576	0.367	0.188	0.217	-0.050	-0.400	0.515	0.600	0.150	-0.350	0.139
March	-0.096	0.241	0.492	-0.126	0.082	0.321	-0.217	0.236	0.450	0.336	0.018	-0.266	-0.091	0.545	0.673*	0.418	-0.424	-0.378
April	0.373	0.372	0.041	0.402	0.087	0.321	0.367	-0.018	-0.083	0.658*	0.327	-0.132	-0.691*	0.891****	0.600	0.006	-0.191	0.504
May	0.327	0.279	0.009	-0.228	0.173	-0.042	0.427	-0.273	-0.025	0.745**	0.245	-0.326	-0.527	0.364	0.479	0.505	-0.145	0.027
June	0.329	0.547	0.524	0.127	-0.060	0.136	0.624	-0.082	0.663	0.308	0.308	0.021	-0.035	0.046	0.981****	0.287	0.162	-0.183
July	0.373	0.383	0.491	0.400	0.273	-0.452	0.417	-0.273	-0.150	0.782**	0.503	0.205	-0.600	0.139	0.738**	0.042	-0.233	0.052
August	0.136	0.387	0.369	-0.018	-0.227	0.273	0.467	-0.073	-0.134	0.679*	0.318	0.082	-0.091	0.856****	0.527	-0.218	-0.036	0.225
September	-0.300	0.715*	0.683	0.084	0.133	-0.300	-0.024	-0.533	0.024	0.050	-0.433	0.234	-0.050	0.837***	0.905****	0.109	0.583	0.179
October	-0.159	0.825****	0.646*	-0.018	0.582*	-0.601	-0.055	-0.650	-0.141	0.210	-0.098	0.861****	-0.104	0.622*	0.623*	0.147	0.445	0.410
November	0.491	0.334	0.415	-0.073	0.547	0.336	0.626	0.082	0.358	0.450	0.445	0.050	-0.173	0.564	0.661*	0.321	-0.555	-0.433
December	0.317	0.451	0.594	-0.156	0.565	0.115	0.433	-0.139	0.317	0.382	0.321	0.812**	0.030	0.433	0.367	0.143	0.127	-0.842*
Pos	8	12	12	5	10	6	9	2	7	12	9	8	1	12	12	11	4	8
Neg	4	0	0	7	2	6	3	10	5	0	3	4	11	0	0	1	8	4
Trend	no trend	pos trend	pos trend	no trend	pos trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.309	-0.534	-0.786**	-0.890****	-0.778**	-0.287	-0.588	-0.430	0.067	-0.818***	-0.143	-0.574	-0.591	-0.775	-0.224	-0.571	-0.418
February	-0.333	0.330	-0.524	-0.791**	-0.684*	-0.444	-0.830****	-0.100	0.341	-0.770**	0.798***	-0.336	-0.068	0.000	-0.285	0.281	-0.479
March	-0.091	-0.193	-0.487	-0.396	0.267	-0.492	-0.255	-0.353	0.265	-0.545	0.478	0.372	-0.169	-0.316	-0.018	-0.207	-0.227
April	-0.055	-0.110	-0.288	-0.553	-0.125	0.018	-0.327	-0.389	0.091	-0.255	0.544	-0.187	-0.134	0.775	0.055	-0.132	-0.191
May	-0.287	0.239	0.342	-0.468	0.367	-0.755***	-0.382	-0.111	0.446	-0.727	0.777***	0.484	0.215	-0.447	-0.196	0.506	-0.427
June	-0.182	0.769***	0.563	-0.313	0.241	-0.194	-0.189	-0.260	0.560	-0.615*	0.256	0.476	-0.173	-0.258	-0.259	-0.109	0.039
July	-0.373	0.777***	0.577	-0.811****	0.047	-0.163	-0.300	-0.215	0.260	-0.864****	0.778***	0.848****	-0.424	-0.258	-0.400	0.277	-0.182
August	0.579	0.674*	0.637*	-0.146	0.477	0.264	-0.155	0.076	0.612	-0.255	0.561	0.596	0.084	-0.258	-0.091	-0.033	0.109
September	0.142	0.548	0.173	-0.073	0.817**	0.843***	0.550	-0.219	0.303	0.200	0.677	0.676	0.639	-	-0.817**	0.548	0.567
October	-0.564*	0.763****	0.371	-0.538	-0.160	0.223	0.302	-0.028	0.210	-0.520	0.624*	0.234	-0.180	-0.775	-0.775****	0.372	0.151
November	-0.460	0.075	-0.019	-0.378	-0.648*	-0.136	-0.176	0.105	-0.134	-0.261	0.522	-0.696*	-0.777**	-0.632	0.224	-0.675*	-0.115
December	0.024	0.086	-0.168	-0.151	0.034	-0.383	0.133	-0.651	-0.050	-0.800**	0.276	-0.109	-0.134	-0.775	0.033	0.117	0.150
Pos	3	9	6	0	7	4	3	2	10	1	11	7	3	2	3	6	5
Neg	9	3	6	12	5	8	9	10	2	11	1	5	9	9	9	6	7
Trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	pos trend	no trend	no trend	no trend	neg trend	no trend	no trend

Quidi Vidi Outlet- NF02ZM0015

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.552	0.462	0.091	0.036	-0.115	-0.608	-0.633	-0.723*	-0.150	-0.152	-0.432	0.634	-0.455	0.721*	0.455	0.286	0.115	-
February	-0.200	-0.180	0.333	0.542	-0.006	-0.321	-0.083	-0.310	0.183	-0.055	-0.188	-0.267	-0.527	0.164	0.418	0.167	-0.273	0.118
March	-0.055	0.179	0.228	-0.203	0.382	0.309	0.217	-0.139	0.233	0.636*	0.218	0.128	-0.573	0.555	0.182	0.152	-0.692*	0.722
April	0.045	0.193	-0.132	0.611	0.118	0.321	0.183	0.491	0.200	0.500	-0.027	-0.023	-0.645*	0.583	0.409	-0.067	-0.109	-0.026
May	0.273	0.186	0.327	0.176	0.485	0.152	0.100	-0.225	0.167	0.755***	0.273	-0.490	-0.468	0.518	0.770**	0.261	-0.118	0.275
June	-0.139	-0.006	0.042	0.168	-0.267	-0.233	0.381	-0.469	0.238	0.541	-0.067	0.261	-0.273	0.285	0.527	0.758**	0.176	0.000
July	-0.214	0.056	0.491	0.323	0.400	-0.224	0.083	-0.503	-0.250	0.552	0.018	0.336	-0.418	-0.036	0.636*	-0.188	-0.064	0.452
August	-0.245	0.313	0.510	0.500	0.323	-0.600	-0.083	-0.600	-0.326	0.318	-0.436	0.308	-0.036	0.891****	0.139	-0.588	0.000	0.522
September	-0.573	0.660*	0.405	0.298	0.330	-0.736**	-0.333	-0.727**	-0.588	-0.027	-0.409	0.365	-0.118	-0.109	0.359	0.182	-0.073	-0.701
October	-0.313	0.630*	0.270	-0.092	0.530	-0.476	-0.118	-0.510	-0.255	0.448	-0.154	0.674**	-0.182	0.438	0.839****	0.413	0.369	-0.311
November	-0.755***	0.618*	0.182	-0.756***	-0.200	-0.791***	-0.638	-0.709**	-0.079	-0.492	-0.809****	0.756***	-0.524	0.855****	0.636	0.673*	-0.018	0.535
December	0.067	0.757**	0.455	0.240	0.665*	-0.318	-0.345	-0.565	0.152	-0.018	0.045	0.600	-0.636	0.377	0.770**	0.564	-0.045	-0.668
Pos	3	10	11	9	8	3	5	1	6	7	4	9	0	10	12	9	4	7
Neg	9	2	1	3	4	9	7	11	6	5	8	3	12	2	0	3	8	4
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	pos trend	neg trend	pos trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.661*	-0.591	-0.778**	-0.604	-0.469	-0.451	-0.685*	0.038	0.061	-0.685*	0.241	0.133	-0.775**	-0.258	-0.770**	-0.308	-0.721*
February	-0.442	-0.168	-0.523	-0.798***	-0.349	0.105	-0.576	-0.381	0.285	-0.527	0.256	-0.457	-0.201	-0.775	-0.345	-0.080	-0.273
March	-0.273	-0.736**	-0.820****	-0.860****	0.425	-0.096	-0.918****	0.332	-0.041	-0.515	0.714**	0.388	-0.670*	0.000	-0.109	-0.306	-0.500
April	-0.127	-0.201	-0.127	-0.580	0.318	0.229	-0.327	-0.082	0.291	-0.382	0.506	0.095	-0.207	0.775	-0.036	0.030	0.014
May	-0.245	0.014	0.048	-0.310	0.343	-0.233	-0.309	-0.276	0.182	-0.500	0.746**	0.135	-0.569	-0.600	-0.218	0.020	-0.251
June	-0.273	0.721*	0.382	-0.171	0.443	0.122	-0.152	0.261	0.354	-0.527	0.222	0.526	0.012	0.000	-0.857****	0.470	-0.079
July	-0.691*	0.490	0.751**	-0.538	0.272	0.000	-0.200	0.448	0.187	-0.700*	0.707*	0.697*	-0.178	-0.894	-0.655*	0.315	-0.410
August	-0.700*	0.671*	0.173	-0.563	0.477	-0.037	-0.218	0.025	-0.059	-0.573	0.809****	0.000	-0.037	-0.316	-0.700*	0.302	-0.319
September	-0.745**	0.500	0.179	-0.433	0.441	0.293	0.000	0.807***	0.114	-0.360	0.287	-0.108	-0.225	-0.258	-0.764***	-0.085	0.091
October	-846****	0.629*	0.067	-0.356	0.600*	0.399	0.385	0.149	0.091	-0.456	0.261	0.158	-0.064	-0.949	-0.731***	0.499	0.258
November	-0.718**	0.433	0.516	0.133	-0.052	0.061	0.200	-0.239	-0.518	-0.576	0.864****	-0.061	-0.104	-0.632	-0.717*	-0.446	-0.624
December	-0.655*	-0.327	-0.607	-0.526	0.303	-0.406	-0.407	0.110	0.201	-0.733*	-0.046	-0.642	-0.630	-0.775	-0.394	0.094	-0.600
Pos	0	7	7	1	9	7	3	8	9	0	11	8	1	3	0	7	3
Neg	12	5	5	11	3	5	9	4	3	12	1	4	11	9	12	5	9
Trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Raymond Brook- NF02ZM0017

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.075	0.580	0.067	-0.133	-0.183	0.500	0.000	0.300	-0.407	0.133	0.183	0.469	-0.033	-0.339	-0.226	0.071	0.251	-0.671
February	0.564	0.074	0.401	0.214	0.297	0.648*	0.383	0.571	-0.653	0.006	0.552	-0.217	-0.617	-0.709*	-0.300	0.267	-0.468	-0.632
March	-0.018	-0.370	0.515	0.538	0.745**	0.277	-0.133	0.227	-0.733*	-0.515	0.139	-0.602	-0.115	-0.377	0.030	0.333	-0.705*	-0.655
April	0.036	0.158	0.165	0.565	-0.030	0.000	0.115	0.178	-0.648*	-0.239	0.264	0.063	-0.389	0.461	0.469	-0.049	-0.072	-0.261
May	0.006	0.007	-0.140	0.479	0.370	-0.033	0.548	-0.083	-0.695	0.176	0.292	-0.286	-0.450	0.062	0.059	0.335	-0.261	-0.267
June	0.364	-0.060	0.032	-0.075	0.009	0.286	0.233	0.201	-0.444	-0.378	0.473	0.000	0.182	0.416	0.364	-0.036	-0.192	0.200
July	0.333	-0.310	0.144	0.429	-0.357	-0.310	-0.143	-0.214	-0.811*	0.262	0.214	-0.491	-0.524	0.109	-0.143	-0.721	-0.262	-0.791
August	0.126	-0.293	-0.378	-0.520	0.176	-0.091	0.133	-0.224	-0.233	0.287	0.560	-0.137	-0.245	0.549	-0.077	-0.385	-0.420	-0.111
September	0.050	0.356	0.567	0.402	0.450	0.383	-0.214	0.555	-0.643	-0.433	-0.317	0.367	0.033	0.420	0.857**	0.383	0.433	-0.293
October	0.133	0.388	0.483	-0.110	0.147	0.109	-0.191	0.512	-0.382	0.042	0.147	0.575	0.123	0.187	0.770**	0.345	0.119	0.014
November	0.042	-0.098	0.262	-0.401	0.413	-0.042	-0.017	-0.098	-0.377	0.164	0.285	-0.079	-0.091	0.157	0.183	-0.483	-0.624	-0.683
December	0.000	0.715*	-0.042	0.263	-0.297	0.297	0.183	0.333	-0.519	-0.389	0.552	0.726*	-0.140	-0.130	0.183	0.250	-0.079	-0.849*
Pos	11	7	9	7	8	8	7	8	0	7	11	6	3	8	8	7	3	2
Neg	1	5	3	5	4	4	5	4	12	5	1	6	9	4	4	5	9	10
Trend	pos trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.192	0.548	0.548	0.606	0.251	-0.218	0.050	-0.474	0.621	-0.100	0.289	0.251	0.251	-0.894	0.444	0.529	0.034
February	-0.252	0.696*	0.696*	-0.465	-0.404	-0.251	-0.442	-0.115	-0.222	-0.539	0.696*	-0.436	-0.143	-0.258	0.579	-0.874****	-0.565
March	-0.783**	0.522	0.522	-0.519	0.261	0.067	-0.467	-0.165	-0.610	-0.455	0.522	0.110	-0.044	-0.632	0.030	-0.443	-0.286
April	0.006	0.513	-0.095	-0.164	0.030	-0.098	0.074	-0.401	-0.643*	-0.102	0.178	0.218	-0.276	0.894	-0.216	0.248	0.095
May	-0.173	0.696*	0.646	0.203	0.696*	-0.505	-0.261	-0.266	-0.329	-0.345	0.696*	0.358	0.315	-	0.012	0.014	-0.517
June	-0.404	0.775***	0.775***	-0.191	0.577	0.119	0.000	-0.166	0.093	-0.455	0.775***	0.583	193.000	-0.632	0.300	-0.059	-0.358
July	-0.072	0.577	0.126	-0.791*	-0.401	-0.491	-0.452	-0.359	-0.530	-0.333	-0.109	0.171	-0.700	-0.258	-0.205	-0.698	-0.561
August	-0.651*	0.518	0.102	-0.092	-0.496	0.198	-0.294	-0.404	-0.366	-0.364	0.563	0.139	0.051	0.775	-0.210	-0.148	0.074
September	0.293	0.548	0.365	-0.494	0.548	0.100	0.517	-0.183	0.254	0.200	0.548	0.783**	0.386	-	0.333	0.280	0.301
October	-0.028	0.480	0.512	-0.030	0.000	-0.060	0.224	-0.194	0.287	-0.063	0.389	-0.198	-0.047	-0.775	0.116	0.167	-0.039
November	-0.573	0.522	0.522	-0.598	0.548	-0.294	-0.600	-0.507	-0.749*	-0.594	0.548	0.183	0.548	-0.775	-0.017	-0.106	-0.762*
December	-0.105	0.522	0.348	-0.018	0.091	-0.569	0.000	-0.436	0.424	-0.183	0.518	0.274	0.128	-0.447	0.167	0.217	-0.033
Pos	3	12	11	2	9	4	6	0	5	1	11	10	7	2	8	6	4
Neg	9	0	1	10	3	8	6	12	7	11	1	2	5	8	4	6	8
Trend	neg trend	pos trend	pos trend	neg trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	pos trend	pos trend	no trend	neg trend	no trend	no trend	no trend

Mobile River- NF02ZM0018

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.267	0.358	0.250	0.611	-0.250	-0.133	-0.333	-0.227	-0.279	-0.150	-0.150	0.377	0.142	-0.876****	-0.067	-0.024	0.300	-0.632
February	-0.119	-0.049	0.476	0.025	0.000	0.012	-0.286	0.000	-0.230	-0.214	-0.310	-0.143	-0.333	0.371	-0.238	0.429	-0.096	-0.316
March	-0.191	-0.573	0.582	0.291	0.800****	0.378	-0.297	0.211	-0.632	0.291	0.064	-0.706*	-0.703*	-0.524	-0.345	0.661*	-0.697*	-0.231
April	-0.180	0.312	-0.067	-0.068	0.151	-0.167	-0.117	-0.192	0.227	0.167	-0.050	0.186	-0.418	-0.546	0.333	0.119	0.283	0.414
May	-0.234	-0.018	0.477	0.276	0.300	0.367	-0.200	-0.168	-0.519	0.561	0.167	-0.310	-0.259	-0.251	0.517	0.071	-0.383	0.655
June	0.180	-0.164	0.414	-0.182	0.357	0.541	-0.071	-0.091	0.214	0.464	0.036	0.072	-0.559	-0.223	0.357	-0.486	0.214	-0.894
July	-0.267	0.219	0.700*	-0.091	-0.283	-0.142	-0.200	-0.390	0.008	0.533	-0.251	-0.117	0.033	0.730*	0.500	0.276	0.183	-0.278
August	-0.036	0.523	-0.429	0.414	-0.036	-0.179	-0.071	-0.667	-0.414	0.571	-0.357	0.179	-0.107	0.535	0.250	0.214	0.393	-0.258
September	-0.226	0.787**	0.231	0.283	-0.261	0.091	0.139	0.232	-0.763**	0.139	-0.043	0.584	0.085	-0.303	0.770*	0.624	0.527	0.540
October	0.226	0.908****	0.717*	0.333	-0.317	0.400	-0.017	0.400	-0.370	0.133	-0.100	0.867****	0.201	-0.091	0.714	0.786*	0.767*	-0.158
November	-0.669*	0.309	0.842****	-0.164	0.243	-0.316	-0.669*	-0.407	-0.828***	0.024	-0.394	0.146	-0.413	-0.034	-0.101	0.083	-0.164	-0.621
December	-0.333	0.295	0.690	0.048	-0.084	-0.143	-0.524	0.229	-0.036	0.494	-0.119	0.252	-0.143	-0.100	-0.107	0.179	0.000	-
Pos	2	8	10	8	6	6	1	5	3	10	3	8	4	3	7	10	8	3
Neg	10	4	2	4	6	6	11	7	9	2	9	4	8	9	5	2	4	8
Trend	neg trend	no trend	pos trend	no trend	no trend	no trend	neg trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.136	-	-	0.000	-	0.306	-0.700*	-0.866*	-0.183	-0.133	-	-0.137	-0.220	-0.894	-0.167	0.387	-0.017
February	0.024	-	0.247	-0.618	-0.764*	-0.405	-0.333	-0.878	-0.173	-0.381	-0.218	-0.289	-0.862**	0.000	0.012	-0.651	-0.578
March	-0.434	0.500	0.500	-0.753**	0.135	-0.018	-0.645*	-0.053	-0.224	-0.855****	0.500	0.225	-0.364	-0.775	0.447	-0.419	-0.645*
April	0.168	-	-	-0.129	0.548	0.008	-0.117	-0.873**	0.410	-0.383	0.000	0.311	-0.182	0.775	0.100	-0.261	0.245
May	-0.276	-	0.104	-0.391	0.000	-0.555	-0.450	0.184	-0.146	-0.700*	-	0.220	-0.183	0.258	0.067	-0.639	-0.845***
June	-0.180	-	0.408	-0.668	-0.177	-0.564	-0.321	-0.555	0.315	-0.321	0.408	-0.089	0.225	-0.316	0.468	0.134	-0.036
July	0.050	0.548	0.518	-0.522	-0.289	-0.368	0.067	-0.436	0.520	-0.467	0.548	0.000	-0.587	-	-0.220	0.365	-0.329
August	-0.180	-	-0.355	-0.741	-0.778	-0.327	-0.500	0.213	0.670	-0.750	-	-0.374	-0.927**	0.775	-0.500	0.335	0.360
September	0.396	-	-0.418	-0.472	0.000	0.399	0.139	0.289	0.013	-0.552	0.174	0.570	0.153	0.632	0.024	0.467	0.585
October	0.433	-0.411	0.639	-0.402	-0.359	0.085	0.717*	0.356	0.730*	-0.517	0.274	0.505	-0.256	0.775	0.385	0.297	0.600
November	-0.595	-	-0.290	0.009	0.000	-0.136	-0.317	-0.845**	-0.295	-0.600	-	-0.139	-0.529	-0.775	-0.301	-0.488	-0.546
December	-0.323	-	-	-0.551	-0.490	-0.618	-0.393	-0.828	0.378	-0.714	-	-0.478	-0.073	-0.775	-0.429	-0.077	-0.432
Pos	5		6	2	5	4	3	4	7	0	6	6	2	6	7	6	4
Neg	7		3	10	6	8	9	8	5	12	1	6	10	5	5	6	8
Trend	no trend		no trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	pos trend	no trend	neg trend	no trend	no trend	no trend	no trend

Seal Cove River- NF02ZM0019

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.143	-0.026	0.143	0.376	-0.048	0.357	-0.024	0.143	-0.156	0.381	0.119	0.048	-0.156	-0.275	0.119	-0.536	-0.190	0.258
February	0.048	0.109	0.575	-0.193	0.286	-0.071	-0.095	0.119	-0.036	0.036	-0.095	0.024	-0.381	-0.347	0.333	-0.250	0.286	-0.775
March	0.767*	-0.290	0.483	0.244	0.317	0.383	0.617	0.728*	0.194	0.267	0.733*	-0.667	-0.467	-0.288	0.067	0.333	-0.569	-0.447
April	0.500	0.356	-0.067	-0.067	-0.067	0.367	0.300	0.410	0.117	0.427	0.733*	-0.075	-0.333	-0.578	0.571	0.071	-0.494	-0.414
May	0.024	0.160	0.143	0.333	0.000	-0.119	0.024	0.012	-0.146	0.333	0.214	0.168	-0.826*	-0.577	0.095	0.929***	0.000	0.577
June	0.405	0.060	-0.263	-0.160	-0.443	0.275	0.190	0.310	0.431	0.714	0.167	0.192	0.048	0.245	-0.143	0.857*	0.190	-0.289
July	-0.214	0.111	0.679	-0.327	-0.179	-0.357	-0.286	-0.250	-0.234	-0.250	-0.214	-0.464	-0.414	0.668	0.286	0.071	0.071	-
August	0.270	0.273	0.607	0.643	0.143	-0.036	-0.429	-0.324	-0.527	-0.321	-0.536	0.000	-0.144	0.059	0.179	0.214	0.321	0.258
September	-0.595	0.563	0.667	-0.361	-0.119	-0.429	-0.667	-0.503	-0.566	0.262	-0.405	0.500	0.238	0.094	0.396	-0.095	0.357	0.000
October	-0.283	0.606	0.733*	0.117	-0.050	0.100	-0.450	0.017	-0.532	0.167	-0.267	0.417	0.083	0.109	0.214	-0.263	0.617	0.000
November	-0.733*	0.175	0.183	-0.153	0.017	0.075	-0.733*	-0.350	-0.093	-0.250	-0.733*	0.050	-0.567	0.420	-0.143	-0.190	-0.233	-0.224
December	-0.548	0.481	0.476	-0.144	-0.048	-0.429	-0.619	-0.357	-0.506	-0.048	-0.405	-0.205	0.192	-0.217	0.072	-0.357	-0.190	-0.354
Pos	7	10	10	5	5	6	4	7	3	8	5	8	4	6	10	6	7	5
Neg	5	2	2	7	7	6	8	5	9	4	7	4	8	6	2	6	5	6
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.168	-	-	0.544	0.430	-0.476	0.452	-0.828	0.196	-0.024	-0.577	0.436	-0.558	-0.632	0.143	0.220	-0.071
February	0.167	-	-0.577	0.064	-0.549	-0.371	0.429	-0.828	-0.442	0.455	-0.577	-0.736	-0.545	0.000	-0.024	-0.401	0.024
March	0.288	-	-	0.040	-0.104	-0.479	-0.617	-0.866*	-0.452	-0.067	-	0.411	-0.557	-0.316	0.748*	-0.639	-0.017
April	0.209	-	-	0.261	0.508	-0.299	0.042	-0.873**	0.328	0.300	0.000	-0.137	-0.128	0.775	0.298	0.390	-0.085
May	0.036	-	0.247	0.041	-0.630	-0.530	-0.072	-0.094	-0.195	0.071	-	0.247	-0.327	0.775	0.095	0.000	-0.635
June	0.036	-	-	0.430	-0.064	-0.515	0.095	-0.866*	0.449	0.143	-	-	0.171	-0.258	0.167	0.441	0.310
July	0.071	-	0.408	-0.289	-0.600	-0.218	-0.107	0.169	-0.206	0.464	0.408	-0.802*	0.019	-0.632	-0.214	0.374	-0.286
August	-0.679	-	-	0.289	-0.374	-0.595	0.143	-0.169	0.036	-0.143	-	-0.099	-0.535	-	-0.143	0.000	0.775
September	0.036	-	0.247	0.651	0.694	-0.143	0.190	-0.279	0.060	-0.119	-0.577	0.109	0.096	-0.775	-0.563	-0.063	0.209
October	-0.051	-	0.311	0.477	-0.465	0.060	0.667	0.867*	0.468	0.267	-0.207	-0.393	-0.369	-0.894	0.017	-0.046	0.451
November	-0.441	-	-0.274	-0.472	-0.805*	-0.494	-0.381	-0.060	-0.436	-0.262	-	-0.495	-0.788*	-0.632	-0.286	-0.701	-0.554
December	-0.699	-	0.082	0.661	-0.116	-0.655	0.393	-0.878	0.126	0.179	-	-0.060	-0.132	-0.775	-0.270	0.231	-0.559
Pos	8		5	10	3	1	8	2	7	7	2	4	3	3	6	7	5
Neg	4		2	2	9	11	4	10	5	5	4	7	9	8	6	5	7
Trend	no trend		no trend	pos trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

Northwest Brook- NF02ZN0002

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.442	0.924****	-0.024	0.143	-0.079	-0.100	-0.167	0.333	-0.133	0.224	-0.455	0.353	0.092	-0.356	0.438	-0.767*	-0.030	0.334
February	-0.267	0.458	0.055	0.060	0.134	-0.188	-0.370	-0.176	-0.541	-0.201	-0.248	0.267	-0.544	0.073	0.333	0.467	-0.358	-
March	0.778*	-0.053	0.812**	-0.277	0.217	0.209	0.500	0.758*	-0.042	0.326	0.767*	-0.628	-0.567	-0.118	0.008	0.310	-0.450	-0.894
April	0.203	0.589*	0.146	0.419	-0.154	0.169	0.321	0.470	0.224	0.459	0.681**	-0.077	-0.198	0.547	0.329	-0.308	-0.379	0.035
May	-0.095	0.591	0.381	0.252	-0.167	-0.335	-0.048	0.048	-0.410	0.381	-0.095	0.095	-0.524	0.000	0.286	0.857*	0.108	0.577
June	0.460	-0.265	0.200	-0.218	0.350	0.444	0.350	0.536	0.000	0.350	0.750*	-0.367	0.367	0.260	-0.083	0.533	-0.504	-0.093
July	-0.483	0.101	0.494	0.643	-0.483	-0.524	-0.500	-0.262	-0.709	-0.119	-0.238	0.383	0.192	0.164	0.517	0.117	0.250	-
August	-0.091	0.006	0.283	0.554	0.321	-0.033	-0.450	0.067	-0.360	0.371	0.067	-0.127	-0.152	0.078	0.309	0.067	-0.273	0.498
September	0.270	0.544	0.639	-0.256	-0.196	-0.178	-0.174	0.238	-0.277	0.230	-0.351	0.563	0.457	-0.276	0.832*	0.186	0.525	-0.707
October	-0.403	0.406	0.077	0.050	-0.203	-0.142	-0.297	-0.050	-0.477	0.196	-0.009	0.523	-0.007	0.213	0.500	0.145	0.308	-0.169
November	-0.683	0.743*	0.678	-0.667	-0.233	-0.586	-0.300	-0.678	-0.836***	0.050	-0.393	0.184	-0.343	0.087	0.238	-0.310	0.385	-0.577
December	-0.690	0.709	0.595	-0.443	-0.450	-0.667	-0.700*	-0.510	-0.430	0.133	-0.650	0.476	0.452	0.000	0.214	-0.714	0.117	-0.507
Pos	4	10	12	7	4	3	3	7	2	10	4	8	5	9	11	8	6	4
Neg	8	2	0	5	8	9	9	5	10	2	8	4	7	3	1	4	6	6
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	no trend	pos trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.432	0.510	0.522	0.400	0.406	-0.049	0.103	-0.620	-0.285	-0.219	0.406	0.510	-0.156	-0.632	-0.321	0.449	-0.561
February	-0.267	0.522	0.522	-0.488	0.105	-0.279	-0.406	-0.183	0.000	-0.491	0.522	0.062	0.321	-	-0.261	0.426	-0.103
March	0.303	-	-0.548	-0.257	-	-0.192	-0.600	-0.913****	0.324	-0.083	-	-0.137	-0.351	-0.775	0.661	-0.040	0.168
April	0.335	0.513	0.513	0.102	0.812****	-0.322	-0.357	-0.386	-0.614*	0.000	0.291	0.669**	-0.631*	0.894	0.217	0.324	-0.003
May	-0.558	-	0.247	0.176	0.247	-0.527	-0.048	-0.694	-0.125	-0.167	-	0.436	-0.412	-	-0.214	0.620	-0.639
June	0.730*	0.548	0.548	0.284	0.207	-0.559	-0.633	-0.443	-0.447	-0.467	0.548	0.207	-0.434	-0.258	0.075	0.347	-0.633
July	-0.655	0.725*	0.725*	0.391	0.149	-0.358	0.083	0.096	-0.202	0.277	0.725*	0.129	0.053	0.258	-0.427	0.615	0.202
August	-0.129	-	-	0.707*	-0.121	-0.335	-0.079	-0.866***	-0.424	-0.067	-0.764**	0.522	-0.631	0.775	0.055	-0.432	0.309
September	0.406	0.577	-	0.510	-0.082	-0.345	0.420	-0.060	0.112	0.384	0.252	0.038	0.270	-	0.090	0.664	0.612
October	-0.113	0.585	0.202	-0.470	-0.046	-0.092	-0.049	0.044	0.004	-0.270	0.648*	0.039	0.190	-0.775	-0.102	-0.207	-0.102
November	-0.870****	-	-	0.274	0.412	-0.012	0.310	-0.866*	-0.274	-0.548	-0.577	0.252	-0.218	-0.632	-0.762*	0.344	-0.313
December	-0.361	-	-	0.175	-	-0.687	0.238	-0.866*	0.365	0.095	-	-	0.498	-0.316	-0.683	0.261	-0.286
Pos	4	7	7	9	7	0	5	2	5	4	7	10	5	3	5	9	4
Neg	8	0	1	3	3	12	7	10	7	8	2	1	7	6	7	3	8
Trend	no trend	pos trend	pos trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	no trend	no trend	no trend	pos trend	no trend

Salmonier River- NF0ZZN0004

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.500	0.753*	-0.714	-0.116	-0.228	-0.738*	-0.548	-0.386	-0.049	0.143	-0.381	-0.310	-0.036	-0.430	-0.071	0.357	-0.108	0.000
February	-0.552	0.183	0.115	-0.060	-0.091	0.394	-0.583	-0.409	-0.588	0.146	-0.636	0.390	-0.433	-0.357	0.167	-0.248	-0.345	0.472
March	-0.394	0.725*	0.604	0.595	0.632	0.686	-0.452	0.109	-0.393	0.156	-0.321	0.517	-0.333	-0.762**	0.171	0.467	-0.236	0.378
April	-0.497	0.362	0.294	-0.084	0.259	-0.298	-0.567	-0.006	-0.034	-0.594*	-0.392	0.410	-0.263	0.159	0.527	0.144	-0.126	0.402
May	-0.500	-0.056	0.627	0.048	0.190	0.060	-0.443	-0.024	-0.552	0.190	-0.190	-0.703	-0.571	-0.412	0.238	0.167	-0.675	0.154
June	-0.773***	0.124	0.018	-0.539	0.055	-0.083	-0.476	-0.422	-0.627	0.032	-0.327	-0.305	-0.300	0.417	0.670*	-0.232	-0.245	0.214
July	-0.310	0.253	0.762*	0.571	-0.071	0.167	-0.548	-0.184	-0.410	-0.143	-0.500	0.119	0.024	0.312	0.252	0.286	0.000	0.655
August	-0.413	0.099	0.018	0.109	0.516	-0.092	-0.500	-0.152	-0.390	0.406	0.028	-0.106	-0.552	0.288	0.495	0.112	-0.322	0.000
September	-0.103	0.426	0.588	-0.017	0.182	0.158	-0.333	0.178	0.092	0.128	-0.164	0.267	0.321	0.156	0.250	0.212	0.248	-0.617
October	-0.085	-0.330	-0.484	-0.018	0.467	0.292	-0.358	-0.111	-0.552	0.200	0.091	-0.187	-0.418	0.354	0.575	0.071	-0.659**	0.256
November	-0.250	0.260	0.433	0.167	0.300	-0.100	-0.417	-0.179	-0.136	0.067	-0.200	-0.025	-0.168	-0.347	0.214	-0.350	-0.251	0.778
December	-0.778**	0.432	0.321	-0.310	-0.109	-0.442	-0.667	-0.585	-0.025	-0.255	-0.467	0.152	0.122	0.085	0.017	-0.176	0.122	-0.299
Pos	0	10	10	5	8	6	0	2	1	9	2	6	3	7	11	8	3	10
Neg	12	2	2	7	4	6	12	10	11	3	10	6	9	5	1	4	9	2
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	pos trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	neg trend	pos trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.241	-	0.504	-0.096	-0.355	0.240	-0.476	-0.866*	-0.277	-0.214	-	-0.764*	-0.846**	0.000	-0.643	-0.169	-0.333
February	-0.418	0.696*	0.390	-0.369	0.562	0.085	-0.624	0.456	-0.346	-0.467	0.696*	0.208	0.006	-0.775	-0.073	-0.019	-0.576
March	-0.128	0.406	0.216	0.000	-0.120	-0.049	-0.091	-0.563	-0.055	-0.430	0.406	0.216	0.123	0.866	0.030	-0.093	-0.152
April	-0.301	0.518	0.518	0.217	0.240	-0.116	-0.035	-0.261	-0.157	-0.105	0.244	0.158	0.298	-	-0.218	-0.133	0.018
May	-0.145	-	0.082	0.082	-0.082	0.012	-0.571	-0.574	0.293	-0.476	0.082	0.218	-0.412	-0.738	-0.143	-0.756*	-0.238
June	-0.287	0.581	0.581	-0.080	0.357	0.365	-0.282	-0.326	-0.262	0.036	0.581	0.581	0.574	-	-0.273	0.279	0.169
July	-0.071	0.577	0.096	0.655	0.396	-0.229	-0.119	-0.183	-0.366	-0.071	0.577	0.577	-0.245	-0.258	-0.167	-0.296	-0.330
August	-0.411	0.518	0.518	0.502	0.263	-0.247	-0.252	-0.404	0.103	0.469	0.456	0.115	0.168	-0.738	-0.235	-0.351	-0.044
September	0.328	-	0.290	0.158	0.674*	-0.359	0.103	-0.693	-0.128	0.248	0.623	-	-0.216	-	0.067	0.172	0.274
October	-0.534	0.513	0.142	0.095	0.071	-0.158	-0.676**	-0.122	-0.698**	-0.670**	0.387	0.042	-0.171	-	-0.320	-0.383	-0.682**
November	-0.042	-	-	-0.245	-0.536	0.356	-0.048	-0.873**	-0.121	0.333	-	-0.089	-0.873**	-0.894	-0.524	-0.764*	-0.157
December	-0.354	0.522	0.522	0.558	0.402	-0.051	0.033	0.110	0.717*	-0.300	0.548	0.707*	0.725*	-0.632	-0.800**	0.736*	0.050
Pos	1	8	11	8	8	5	2	2	3	4	10	9	6	2	2	3	4
Neg	11	0	0	4	4	7	10	10	9	8	0	2	6	6	10	9	8
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	no trend

Rocky River- NF02ZK0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.492	0.240	-0.378	-	-0.065	-0.300	-0.306	-0.383	-0.380	-0.182	-0.236	0.024	0.101	0.266	0.168	0.342	-	-
February	0.119	0.289	0.208	-	0.385	0.274	-0.036	0.145	0.027	-0.137	0.155	0.367	0.004	0.238	0.162	0.464	-	-0.612
March	-0.491	0.107	-0.236	-	0.274	0.081	-0.073	-0.032	0.068	-0.317	-0.300	-0.277	-0.295	-0.023	0.057	-0.095	-	-0.612
April	0.269	-0.260	-0.435	-	0.184	0.500	0.249	0.030	0.024	0.344	0.564	-0.102	0.252	0.406	0.125	0.194	-	-0.612
May	0.068	-0.109	-0.279	-	0.136	-0.126	0.169	-0.247	0.164	0.058	0.253	-0.468	-0.053	0.588	-0.105	-0.238	-	-0.581
June	0.577*	-0.130	0.092	-	0.140	-0.011	0.607*	0.190	0.834****	0.566*	0.490	-0.041	0.649**	0.538*	0.619*	-0.212	-	-0.120
July	0.096	0.182	-0.431	-	-0.080	0.325	-0.298	0.064	-0.170	-0.017	-0.148	0.323	0.251	0.491	0.652**	0.467	-	-0.782*
August	0.144	-0.315	-0.716*	-	0.378	0.242	0.097	0.074	0.298	-0.073	0.173	0.000	0.175	0.749**	0.351	0.071	-	-0.612
September	-0.541	-0.145	-0.679*	-	-0.030	-0.448	-0.388	-0.484	0.171	0.006	0.103	-0.190	-0.311	0.285	0.274	-0.643	-	-0.612
October	0.078	-0.208	-0.575	-	0.109	-0.109	0.095	-0.025	0.120	-0.380	0.317	-0.419	-0.040	0.444	0.251	0.479	-	-0.134
November	-0.577	0.375	0.245	-	-0.238	-0.571	-0.109	-0.367	0.119	-0.576	0.075	-0.393	0.481	0.204	0.228	0.300	-	-
December	-0.679*	-0.024	-0.044	-	-0.391	-0.642	-0.012	-0.863****	0.587	-0.788**	-0.371	-0.524	0.038	0.638	0.445	-0.257	-	-
Pos	7	5	3		7	7	5	5	10	4	8	4	8	11	11	7		0
Neg	5	7	9		5	5	7	7	2	8	4	8	4	1	1	5		9
Trend	no trend	no trend	neg trend		no trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend	pos trend	pos trend	no trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Northeast River- NF02ZK0005

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.292	0.683*	-0.127	0.185	-0.116	-0.553	-0.033	-0.438	0.034	-0.103	-0.067	0.394	-0.164	-0.688*	0.115	-0.452	0.158	0.655
February																		
March	0.189	0.113	0.403	0.429	0.203	0.370	0.083	0.151	-0.210	0.476	0.487	0.268	-0.434	-0.424	0.182	0.210	-0.259	-0.126
April																		
May	0.473	-0.295	0.455	0.000	0.357	-0.316	0.267	-0.030	0.157	0.368	0.476	0.261	-0.109	0.051	0.500	-0.228	-0.420	0.183
June																		
July	-0.039	0.119	0.039	0.515	-0.039	-0.370	-0.033	-0.304	-0.227	-0.536	0.118	0.446	0.000	-0.114	0.455	0.469	0.182	-0.207
August																		
September	0.060	0.399	0.487	-0.474	0.047	-0.645*	0.115	-0.462	0.321	0.081	0.434	0.116	-0.435	0.185	0.427	0.264	0.188	0.171
October																		
November	0.073	0.428	0.433	-0.132	0.255	0.050	0.115	-0.018	0.146	-0.127	0.109	0.345	-0.036	0.020	0.479	-0.036	-0.091	0.204
December																		
Pos	4	5	5	4	4	2	4	1	4	3	5	6	1	3	6	3	3	4
Neg	2	1	1	2	2	4	2	5	2	3	1	0	5	3	0	3	3	2
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.091	0.522	0.522	0.019	-0.505	-0.171	0.517	0.309	-0.405	0.042	0.522	-0.355	-0.527	0.775	-0.450	-0.032	-0.139
February																	
March	-0.074	0.518	0.518	0.107	0.362	-0.179	-0.182	-0.261	-0.452	-0.364	0.518	0.148	-0.307	-	-0.049	-0.047	-0.203
April																	
May	0.186	0.518	0.518	0.366	0.122	-0.293	-0.210	-0.494	-0.148	0.070	0.518	0.244	-0.031	0.447	0.281	-0.363	-0.445
June																	
July	-0.120	0.585	0.585	0.432	-0.044	-0.147	0.385	0.356	-0.075	0.490	0.585	0.202	-0.236	-0.258	-0.217	0.121	0.371
August																	
September	-0.080	0.513	0.513	0.006	0.258	-0.269	0.209	-0.030	-0.416	0.187	0.342	0.771****	-0.058	0.775	-0.316	0.287	0.305
October																	
November	0.198	0.500	0.238	0.228	-0.560	0.142	0.273	-0.324	-0.682*	-0.176	0.435	-0.241	-0.457	-	-0.036	-0.407	-0.166
December																	
Pos	2	6	6	6	3	2	4	2	0	4	6	4	0	3	1	2	2
Neg	4	0	0	0	3	4	2	4	6	2	0	2	6	1	5	4	4
Trend	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Pipers Hole River- NF02ZH0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.975****	0.585	-0.260	-	-0.479	-0.812****	-0.980****	-0.740**	-0.509	-0.755**	-0.620	0.095	0.055	-0.489	-0.232	0.286	-	-
February	-0.152	0.626*	0.451	-	0.194	-0.269	0.000	-0.073	0.401	-0.295	-0.061	0.277	0.260	-0.414	0.246	0.167	-	-0.655
March	-0.530	0.148	0.550	-	-0.248	-0.289	-0.285	-0.547	-0.167	-0.646	-0.430	0.214	0.183	-0.398	-0.110	0.257	-	-0.134
April	0.479	0.000	-0.365	-	-0.175	0.395	0.587	0.168	0.000	0.275	0.467	0.400	0.443	0.420	0.779*	0.522	-	-0.655
May	0.076	0.182	-0.271	-	-0.271	-0.269	-0.301	-0.336	-0.017	0.621	0.214	0.108	0.204	0.170	-0.031	-0.345	-	-0.581
June	-0.030	0.131	-0.579*	-	0.277	0.113	0.257	0.344	0.420	0.122	-0.100	-0.005	-0.248	0.170	0.548	-0.243	-	-0.866**
July	0.138	0.310	-0.078	-	-0.039	-0.216	-0.340	-0.286	-0.239	0.030	-0.187	0.313	0.011	0.337	0.452	0.050	-	-0.837***
August	-0.508	0.389	-0.148	-	-0.120	-0.542	-0.744*	-0.406	-0.308	-0.448	-0.700*	0.483	-0.061	-0.146	0.399	-0.143	-	-0.612
September	-0.661*	0.662*	-0.332	-	-0.371	-0.709*	-0.865***	-0.610	0.326	-0.583	-0.515	0.429	0.427	0.640	0.340	-0.679	-	-0.655
October	-0.625*	0.678**	0.025	-	-0.716**	-0.681*	-0.458	-0.407	-0.652*	-0.723*	-0.580	0.293	0.300	0.253	0.285	0.179	-	-0.612
November	0.201	-0.006	-0.571	-	-0.245	0.347	0.534	0.126	-0.180	0.732*	0.413	-0.132	0.105	0.646	0.165	0.353	-	0.581
December	-0.268	-0.228	-0.184	-	-0.481	-0.380	0.136	-0.067	-0.184	-0.639	0.008	-0.607	0.026	0.681	0.343	0.800	-	-
Pos	4	10	3		2	3	5	3	4	5	4	9	10	8	10	8		1
Neg	8	2	9		10	9	7	9	8	7	8	3	2	4	2	4		9
Trend	no trend	pos trend	neg trend		neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	pos trend	pos trend	no trend	pos trend	no trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Rattle Brook- NF02ZG0025

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.405	-0.126	0.132	0.127	-0.619	0.143	0.310	0.381	-0.073	0.357	0.405	-0.675	-0.476	-0.238	-0.287	-0.179	-0.071	-0.447
February	0.283	0.183	0.417	-0.209	-0.050	0.033	0.000	0.150	-0.301	-0.167	0.167	-0.633	-0.544	0.117	0.293	-0.238	-0.586	-0.577
March	0.517	-0.104	0.300	-0.101	0.167	-0.533	-0.217	-0.243	-0.483	-0.218	0.033	-0.267	-0.067	-0.218	-0.350	-0.143	-0.450	-0.447
April	0.250	-0.071	0.117	0.234	0.083	0.127	0.167	0.293	-0.218	0.343	0.617	-0.500	-0.477	-0.113	0.160	0.024	-0.733*	-0.414
May	-0.333	0.206	0.048	0.530	0.286	-0.060	-0.439	0.265	-0.626	0.048	-0.024	-0.190	-0.347	-0.115	0.500	0.414	-0.214	0.000
June	0.168	0.394	0.494	0.503	-0.168	0.132	-0.048	0.364	-0.464	0.286	0.119	-0.190	-0.143	0.344	0.048	0.234	-0.204	-0.866
July	0.090	0.286	0.703	0.821*	-0.643	-0.071	-0.500	-0.071	-0.396	-0.607	-0.607	0.250	0.179	-0.223	0.464	0.321	0.286	-
August	-0.793*	0.593	0.643	0.214	-0.214	-0.321	-0.857*	-0.679	-0.818*	-0.679	-0.667	0.357	0.536	-0.453	-0.250	-0.321	0.357	-0.258
September	-0.429	-0.218	0.120	0.095	0.429	-0.563	-0.286	-0.431	-0.147	0.072	-0.238	-0.381	-0.500	0.327	-0.429	-0.778*	-0.238	-
October	-0.083	0.026	0.450	0.156	0.100	0.176	0.100	0.402	-0.691	0.283	-0.268	0.092	-0.550	-0.158	-0.250	-0.190	0.183	-0.707
November	-0.017	-0.286	0.183	-0.361	-0.101	0.059	-0.100	-0.119	-0.130	-0.084	0.050	-0.483	-0.467	0.350	0.048	-0.476	-0.533	0.000
December	0.350	0.422	0.563	-0.024	0.200	0.552	-0.109	0.311	-0.479	0.000	0.483	0.109	0.477	-0.136	0.452	-0.214	-0.017	-0.707
Pos	7	7	12	8	6	7	4	7	0	7	7	4	3	4	7	4	3	2
Neg	5	5	0	4	6	5	8	5	12	5	5	8	9	8	5	8	9	8
Trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.342	-	-	0.845**	0.126	-0.587	-0.395	-0.213	-0.454	0.262	-0.247	-0.234	-0.600	-0.316	0.476	0.192	-0.347
February	0.160	-	0.137	0.053	-0.730*	0.271	-0.033	-0.849*	0.165	0.300	0.548	-0.388	-0.037	-0.632	0.126	0.026	0.519
March	-0.460	-	-	-0.523	-0.673	-0.838***	-0.217	-0.866*	-0.634	0.200	-	-0.411	-0.726*	-0.632	-0.251	-0.730*	-0.270
April	-0.059	-	-0.137	-0.205	-0.023	-0.540	-0.517	-0.873**	0.239	0.167	0.183	0.160	-0.237	0.632	0.293	0.541	-0.321
May	-0.398	-	0.247	0.247	-0.094	-0.439	0.048	-0.393	-0.521	0.000	-	0.630	-0.664	0.211	-0.317	-0.378	-0.561
June	-0.439	-	-	0.000	0.412	-0.831*	-0.310	-0.866*	-0.399	-0.240	0.247	-0.247	-0.358	-0.632	-0.393	-0.109	-0.442
July	0.179	-	0.408	0.866*	0.408	-0.577	0.286	-0.555	-0.079	0.214	0.204	0.000	-0.259	0.775	0.143	0.837*	-0.216
August	-0.536	-	-	0.791*	-0.299	-0.962****	0.357	-0.828	-0.193	0.464	-0.757	-0.612	-0.802*	0.447	-0.595	-0.309	0.306
September	-0.214	-	-	-0.577	-0.245	-0.371	-0.333	-0.474	-0.235	-0.405	0.220	-0.245	-0.533	0.447	-0.361	-0.736	-0.252
October	-0.051	-	0.274	-0.143	-0.373	-0.131	0.133	-0.279	0.548	0.000	0.274	0.139	-0.488	-0.775	0.276	-0.558	-0.544
November	-0.323	-	-	-0.548	-0.350	-0.168	-0.229	-0.279	-0.577	0.095	-	-0.577	-0.748*	-0.447	-0.061	-0.856**	-0.482
December	0.244	-	-	-0.039	-	-0.358	0.431	-0.449	0.166	0.143	-	-	-0.136	-0.775	0.503	0.109	-0.374
Pos	4		4	6	3	1	5	0	4	10	6	4	0	5	6	5	2
Neg	8		1	6	8	11	7	12	8	2	2	7	12	7	6	7	10
Trend	no trend		no trend	no trend	neg trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend

Tides Brook- NF02ZG0024

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.309	0.678*	0.564	-0.587	-0.164	-0.480	-0.267	-0.297	-0.588	0.030	-0.067	0.485	-0.334	-0.591	0.406	0.350	0.079	-0.293
February	-0.236	0.735*	0.638	-0.733*	-0.225	-0.612	-0.370	-0.037	-0.545	-0.248	-0.018	0.142	-0.652*	0.476	0.529	0.633	-0.273	-0.098
March	-0.745**	0.213	0.527	0.203	-0.188	-0.467	-0.726*	-0.742*	-0.766**	-0.778**	-0.717*	0.310	-0.018	-0.505	-0.139	0.050	-0.345	0.000
April	-0.504	0.014	-0.129	-0.079	0.430	0.018	-0.406	0.169	-0.889****	-0.055	0.093	0.250	-0.514	-0.388	0.264	0.375	-0.457	-0.610
May	-0.267	0.791**	0.402	-0.096	-0.119	0.084	-0.233	-0.176	-0.683	0.243	-0.092	-0.048	-0.433	-0.528	0.450	0.714	-0.550	0.621
June	0.095	-0.172	0.467	0.747*	-0.595	-0.167	-0.024	0.156	-0.563	-0.048	0.214	-0.419	-0.143	-0.110	0.286	0.571	0.310	-0.289
July	-0.370	0.298	-0.517	-0.107	-0.225	-0.417	-0.048	0.218	-0.795*	0.233	0.150	0.423	0.261	-0.079	0.709*	-0.371	0.103	0.620
August	-0.382	-0.127	0.079	-0.240	0.018	-0.101	-0.300	0.142	-0.800**	0.539	-0.134	-0.219	0.097	-0.430	0.297	0.413	-0.486	0.579
September	-0.794***	0.652*	0.602	0.076	-0.612	-0.479	-0.778**	-0.286	-0.748**	0.055	-0.515	0.515	0.333	-0.576	0.433	0.248	0.600	0.433
October	-0.462	0.296	0.379	0.329	0.363	0.141	-0.314	0.159	-0.799***	-0.004	0.364	0.358	-0.401	-0.392	-0.045	0.028	-0.126	0.018
November	-0.176	0.468	0.400	0.126	-0.109	-0.326	-0.250	0.042	-0.439	0.033	-0.400	0.151	0.109	0.289	0.333	0.095	0.133	0.000
December	-0.131	0.779**	0.559	0.111	-0.473	-0.708*	-0.370	0.078	-0.751**	-0.461	0.160	-0.249	0.437	-0.027	0.034	-0.269	-0.225	-
Pos	1	10	10	6	3	3	0	7	0	6	5	8	5	2	10	10	5	7
Neg	11	2	2	6	9	9	12	5	12	6	7	4	7	10	2	2	7	4
Trend	neg trend	pos trend	pos trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.486	-	-	0.430	-0.127	-0.283	0.636	0.000	0.055	0.115	0.646	-0.127	-0.116	-0.775	-0.321	-0.208	-0.255
February	-0.421	-	0.058	0.355	-0.701*	-0.157	0.030	-0.873**	0.277	-0.030	0.418	-	0.026	-	-0.671*	0.097	0.073
March	-0.770**	-	-0.522	0.021	-0.749**	-0.820***	0.418	-0.756*	-0.587	0.127	0.406	-0.738*	-0.444	-0.316	-0.583	-0.415	-0.333
April	-0.382	-0.231	-0.231	0.278	0.235	-0.360	-0.236	-0.471	-0.139	-0.390	0.356	0.235	-0.173	0.632	0.033	-0.238	-0.617*
May	-0.383	-	0.104	0.456	-	-0.431	0.633	-0.652	0.165	-0.483	0.000	0.388	-0.346	-0.258	-0.067	-0.488	-0.783**
June	-0.119	-	-	0.504	0.247	-0.539	0.238	-0.694	0.400	0.310	-	0.082	-	-0.316	-0.108	0.913****	-0.277
July	-0.669*	-	-	0.355	0.236	-0.185	0.018	0.442	-0.081	-0.462	0.275	0.631	-0.330	-0.775	-0.498	0.296	-0.495
August	-0.673*	-	-	0.174	-0.754**	-0.698*	0.139	-0.266	0.110	-0.164	-0.062	-0.522	-0.559	0.775	-0.348	-0.459	-0.485
September	-0.031	-	-	-0.190	-	0.024	0.152	-0.493	-0.546	0.467	0.853****	0.406	-0.396	0.447	-0.806***	0.511	0.286
October	-0.118	-	0.000	-0.155	-0.066	0.156	0.448	0.119	0.065	0.170	0.238	-0.006	-0.151	-0.775	-0.110	-0.307	-0.365
November	0.209	-	0.274	0.137	-0.412	-0.169	0.167	-0.279	0.449	0.190	-0.252	0.577	-0.307	-0.632	-0.263	-0.436	0.371
December	0.194	-	0.058	0.187	-	-0.528	0.606	-0.361	-0.017	0.506	0.416	-0.286	-0.108	-0.775	-0.656	0.758*	0.125
Pos	2	0	5	10	3	2	11	3	7	7	9	6	1	3	1	5	4
Neg	10	1	2	2	6	10	1	9	5	5	2	5	10	8	11	7	8
Trend	neg trend		no trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Garnish River- NF02ZG0016

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January				-													-	
February	-0.309	0.143	0.282	-	-0.275	-0.187	-0.139	-0.155	-0.018	-0.061	-0.006	0.075	0.452	0.192	-0.433	-0.324	-	-0.655
March				-													-	
April	0.209	-0.588	-0.463	-	0.351	0.048	0.217	0.072	0.146	0.193	0.310	-0.577	-0.167	-0.170	0.319	0.500	-	-0.707
May				-													-	
June	0.713**	-0.032	0.271	-	0.319	0.652*	0.758**	0.411	-0.457	0.179	0.378	0.167	-0.161	0.423	0.063	0.357	-	-0.802*
July				-													-	
August	0.217	0.561	-0.353	-	-0.247	0.085	0.048	0.268	0.537	0.000	0.300	-0.143	0.790*	0.502	0.050	-0.086	-	-0.707
September				-													-	
October	-0.036	0.169	0.375	-	0.418	-0.343	-0.251	-0.350	-0.126	-0.073	0.145	0.300	-0.378	0.561	-0.285	0.750	-	-0.134
November				-													-	
December				-													-	
Pos	3	3	3		3	3	3	3	2	3	4	3	2	4	3	3		0
Neg	2	2	2		2	2	2	2	3	2	1	2	3	1	2	2		5
Trend	no trend	no trend	no trend		no trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	pos trend	no trend	no trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Grand Bank Brook- NF02ZG0026

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February																		
March	-0.714	0.318	0.929***	0.091	-0.250	-0.750	-0.571	-0.714	-0.631	-0.429	-0.541	0.643	-0.232	-0.709	0.464	-0.429	0.321	-0.655
April	-0.464	0.917**	0.214	-0.739	0.000	-0.179	-0.750	-0.464	-0.306	0.179	-0.179	0.536	-0.893**	-0.673	-0.841	-0.179	-0.321	-0.501
May																		
June	0.357	-0.112	-0.107	0.018	0.613	0.571	0.071	0.500	-0.630	0.714	0.500	-0.500	0.286	-0.185	0.893**	0.679	-0.464	-0.207
July	-0.250	0.234	-0.667	-0.058	0.036	-0.250	-0.393	-0.250	-0.393	-0.286	-0.036	0.000	-0.429	-0.204	0.821*	-0.036	0.143	0.338
August	0.321	-0.309	0.036	0.023	0.090	0.500	0.071	0.500	0.143	-0.179	0.250	-0.786*	-0.613	0.617	-0.286	0.643	-0.643	0.207
September	-0.857**	0.807*	0.190	0.883*	-0.310	-0.857**	-0.833**	-0.857**	-0.743*	-0.214	-0.762*	0.690	0.120	-0.514	0.893**	-0.762*	0.738*	-0.722
October	-0.048	0.431	-0.571	0.108	0.683	0.214	-0.310	-0.048	-0.524	0.048	-0.143	-0.024	-0.898***	-0.562	-0.071	0.286	-0.452	0.309
November	-0.464	-0.184	-0.090	0.873*	-0.107	-0.214	-0.500	-0.252	-0.393	-0.214	-0.288	-0.018	0.286	-0.655	0.429	-0.036	-0.214	-
December	-0.821*	0.642	0.126	0.357	-0.286	-0.429	-0.571	-0.378	-0.309	-0.090	-0.286	-0.216	0.821*	-0.306	0.257	-0.286	-0.179	-0.837
Pos	2	6	5	7	5	3	2	2	1	3	2	4	4	1	3	3	3	3
Neg	7	3	4	2	4	6	7	7	8	6	7	5	5	8	6	6	6	5
Trend	neg trend	no trend	no trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February																	
March	-0.162	-	-0.408	0.000	-	-0.564	0.414	-0.777	-0.837*	0.000	-	0.612	-0.267	-0.632	-0.786*	-	0.000
April	-0.600	-	-0.612	-0.179	-0.158	-0.019	0.036	-0.791*	-0.879*	-0.964****	-0.408	-0.267	-0.767	0.775	-0.179	0.112	-0.393
May																	
June	-0.418	0.612	0.612	0.000	0.158	0.436	-0.286	-0.433	0.371	-0.143	0.612	0.612	0.612	-0.258	0.429	0.408	0.018
July	-0.473	-	0.000	-0.474	-0.401	-0.206	-0.214	0.150	-0.234	-0.750	-	-	-0.764	-	-0.250	-0.418	0.018
August	0.198	-	-	0.158	-	0.505	-0.214	-0.866*	0.450	0.036	-0.204	0.612	0.154	-0.258	0.500	0.000	-0.218
September	-0.146	-	-0.082	0.218	0.247	0.822*	-0.048	-0.309	-0.898***	-0.667	0.630	0.454	0.617	-	-0.857**	0.825*	0.738*
October	-0.747*	-	-0.082	-0.151	-0.394	0.643	-0.571	-0.562	-0.073	-0.571	-0.247	-0.573	-0.677	-0.775	0.119	-0.766*	-0.303
November	-0.613	-	-0.408	0.507	-	0.334	0.086	-0.866*	-0.493	-0.543	-	0.655	0.655	-0.775	-0.754	0.235	-0.058
December	-0.291	-	-0.204	0.878*	-	0.232	-0.714	-0.866*	0.058	0.029	0.207	-	-0.772	0.258	-0.043	-0.621	0.348
Pos	1		2	6	2	6	3	1	3	3	3	5	4	2	3	5	5
Neg	8		6	3	3	3	6	8	6	6	3	2	5	5	6	3	4
Trend	neg trend		no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend

South West Brook (@Baie Verte)- NF02YM0004

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.667	0.373	0.017	-0.551	0.150	-0.500	-0.833***	-0.667	-0.661	-0.700*	-0.717*	-0.450	-0.381	-0.285	0.233	0.238	-0.159	-0.894
February	-0.095	0.273	0.084	-0.443	-0.333	0.048	-0.262	0.012	-0.461	-0.143	-0.500	0.036	-0.262	0.133	0.333	0.536	0.299	-0.211
March	-0.079	0.151	0.721*	0.030	0.018	-0.225	-0.127	0.061	-0.462	-0.382	-0.042	-0.480	-0.030	-0.049	0.200	0.617	-0.297	-0.772
April	0.067	-0.295	0.602	0.108	0.285	0.248	-0.250	-0.109	-0.460	-0.382	0.067	-0.790**	-0.262	-0.067	-0.033	0.300	-0.673*	-0.433
May	-0.619	-0.165	0.410	0.142	-0.119	-0.500	-0.429	-0.500	-0.476	-0.467	-0.467	-0.550	-0.417	-0.051	0.381	-0.429	-0.483	0.354
June	-0.333	-0.393	0.109	0.095	-0.100	-0.310	-0.643	-0.357	-0.096	-0.745*	-0.333	-0.233	-0.467	-0.199	0.183	-0.238	-0.345	-0.741
July	-0.200	0.153	0.283	0.393	-0.383	-0.683	-0.714	-0.690	-0.595	-0.133	-0.200	0.000	0.067	-0.037	0.517	0.000	0.100	0.289
August	-0.217	0.068	0.417	0.185	0.183	-0.133	-0.183	-0.267	-0.678	-0.383	-0.233	0.100	-0.083	-0.184	0.476	0.619	0.117	-
September	-0.667	0.542	0.527	0.000	-0.156	-0.667	-0.683	-0.659	-0.714	-0.571	-0.690	0.667	0.024	-0.277	0.643	0.405	0.667	-0.707
October	-0.183	0.127	0.517	-0.262	0.500	-0.333	-0.167	-0.577	-0.483	-0.217	-0.317	-0.250	-0.583	-0.084	0.381	-0.479	-0.134	0.205
November	-0.467	0.343	0.450	-0.638	0.300	-0.550	-0.433	-0.650	-0.454	-0.167	-0.500	-0.283	0.117	0.695	0.381	-0.381	-0.083	0.224
December	-0.595	0.140	0.095	-0.655	0.144	-0.167	-0.643	-0.431	-0.311	-0.524	-0.762*	-0.240	-0.524	0.371	0.286	0.429	-0.071	-0.447
Pos	1	9	12	7	7	2	0	2	0	0	1	4	3	3	11	8	4	4
Neg	11	3	0	5	5	10	12	10	12	12	11	8	9	9	1	4	8	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.740*	0.548	-	-0.027	-0.402	-0.360	-0.283	-0.652	-0.725*	-0.183	-0.411	-0.124	-0.514	-0.775	-0.650	-0.260	-0.243
February	-0.419	-	-	0.421	0.128	-0.205	0.405	-0.866*	-0.772*	-0.143	-0.577	0.027	-0.788*	0.258	-0.048	-0.587	-0.602
March	-0.603	0.701*	0.522	-0.356	-0.119	0.549	-0.285	-0.110	-0.623	-0.503	-0.646	-0.358	-0.098	-0.632	-0.231	-0.026	-0.148
April	-0.345	0.701*	0.522	-0.502	0.031	-0.323	-0.079	-0.110	-0.205	-0.467	-0.398	-0.111	-0.132	-0.354	0.201	-0.193	-0.472
May	-0.577	0.548	-	-0.440	0.143	-0.092	0.150	-0.873**	-0.752*	0.050	-0.725*	0.525	-0.437	-0.775	-0.500	0.095	-0.506
June	-0.387	0.725*	-	0.026	-0.581	-0.094	-0.233	0.236	-0.518	-0.117	-0.697	-0.287	0.079	0.258	-0.167	-0.254	-0.333
July	0.517	0.725*	-	-0.298	0.262	-0.254	0.067	-0.013	-0.219	-0.159	-0.645	0.328	-0.221	-	-0.083	-0.143	0.135
August	-0.611	0.548	-	-0.051	-0.261	-0.544	-0.017	-0.866*	-0.570	-0.267	-0.630	0.126	-0.395	0.949	-0.293	-0.160	0.067
September	-0.262	-	-	-0.130	0.537	-0.415	0.524	-0.791*	0.170	-0.048	0.252	0.503	-0.546	-	-0.667	0.170	0.240
October	-0.343	0.548	-	0.016	0.368	0.156	-0.167	-0.498	-0.113	0.190	-	0.122	0.082	-0.775	-0.381	0.565	-0.333
November	-0.317	-	-	0.179	-0.419	-0.084	0.096	-0.498	-0.290	0.190	-0.756*	-0.306	-0.712	-0.707	-0.714	-0.421	0.060
December	-0.407	-	-	0.018	-0.036	0.270	-0.036	-0.828	0.318	-0.286	-0.612	-0.126	-0.378	0.258	-0.143	-0.225	-0.037
Pos	1	8	-	5	6	3	5	1	2	3	1	6	2	4	1	3	4
Neg	11	0	-	7	6	9	7	11	10	9	10	6	10	6	11	9	8
Trend	neg trend	pos trend		no trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend	no trend

Indian Brook- NF02YM0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.876****	0.740***	-0.280	0.600	0.365	-0.432	-0.456	-0.484	-0.579	-0.842****	-0.756***	-	0.433	0.751***	-0.416	-0.077	-0.135	-	-
February	-0.418	0.283	-0.298	-	-0.191	-0.115	-0.505	-0.024	0.146	-0.488	-0.967****	-	-0.108	0.037	-0.451	-0.239	0.943**	-	-
March	-0.611*	0.520	0.171	-0.429	-0.487	-0.053	-0.380	-0.145	0.169	-0.728**	-0.627*	-	0.368	0.210	-0.206	0.046	0.524	-	-0.612
April	0.198	0.577	0.335	-	0.288	0.198	0.234	-0.055	0.482	0.198	-0.657	-	-0.949	0.214	0.000	-0.090	1.000****	-	-
May	-0.759***	0.187	0.555	0.400	-0.033	-0.635*	-0.553	-0.832****	-0.023	-0.622	-0.598	-	0.571	0.547	-0.608	-0.239	0.571	-	-
June	-0.333	0.419	0.835**	-	0.128	-0.347	-0.429	-0.347	-0.018	-0.673	-0.476	-	0.200	0.233	0.454	-0.132	1.000****	-	-
July	-0.536	0.396	0.000	0.500	-0.334	-0.464	-0.741	-0.180	-0.613	-0.378	-0.821*	-	0.551	0.655	0.818*	0.143	0.500	-	-
August	-0.723*	0.716	0.457	-	-0.410	-0.502	-0.540	-0.614	-0.477	-0.536	-0.711*	-	0.703	0.519	0.352	0.469	0.406	-	-
September	-0.286	0.168	-0.306	-0.500	0.180	-0.036	-0.436	-0.310	0.286	-0.582	-0.286	-	-0.100	0.168	-0.054	-0.132	-0.400	-	-
October																		-	-
November	-0.773***	0.448	-0.015	-	0.205	-0.647	-0.730***	-0.295	0.683**	-0.549	-0.557	-	-0.049	0.579	0.161	0.140	-0.735	-	-
December																		-	
Pos	1	10	6	3	5	1	1	0	5	1	0		6	10	5	4	7		0
Neg	9	0	4	2	5	9	9	10	5	9	10		4	0	5	6	3		1
Trend	neg trend	pos trend	no trend		no trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend		no trend	pos trend	no trend	no trend	no trend		

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Exploits (b/l Millertown Dam)- NF02YO0107

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.543	-0.076	0.095	0.071	0.643	-0.400	-0.900	-0.900	0.447	-0.667	-0.619	-0.058	-0.571	-0.206	-0.405	-0.429	-0.771	-0.354
February																		
March	-1.000	0.578	0.571	0.432	-0.429	-1.000	-0.943**	-1.000	-0.412	-0.929***	-0.667	-0.486	-0.857*	-0.306	-0.371	-0.348	-0.771	-0.316
April																		
May	-0.667	-0.183	0.268	0.378	0.080	-0.829	-0.900	-0.638	-0.667	-0.778	-0.134	-0.683	-0.395	-0.363	0.142	-0.524	-0.310	-0.954***
June																		
July	-0.946****	0.472	-0.443	0.541	-0.333	-0.899*	-0.943**	-0.706	-0.290	-0.946****	-0.318	0.337	0.092	-0.072	0.402	-0.595	-0.393	-0.621
August	-1.000	-0.218	0.036	0.714	0.036	-1.000	-1.000	-0.400	0.316	-0.750	-0.857*	-0.200	-0.055	0.126	-0.107	-0.600	-0.100	-0.447
September	-0.929***	0.295	-0.024	0.725	0.204	-0.943**	-0.943**	-0.348	-0.736	-0.476	-0.500	-0.071	-0.452	0.024	-0.275	-0.667	-0.429	0.098
October	-0.847*	0.468	0.509	0.616	0.919**	-0.943**	-0.829	-0.771	-0.377	-0.657	-0.200	0.309	-0.071	-0.754	0.029	-0.250	-0.536	0.393
November	-0.900	0.267	-0.679	-0.071	0.429	-0.900	-0.900	-0.205	-0.975	-0.929***	-0.955***	-0.900	-0.036	-0.218	-0.786*	-0.700	0.224	-
December																		
Pos	0	5	5	7	6	0	0	0	2	0	0	2	1	2	3	0	1	2
Neg	8	3	3	1	2	8	8	8	6	8	8	6	7	6	5	8	7	5
Trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.771	0.655	0.393	0.621	0.000	-0.899*	0.029	-0.414	0.169	-0.486	0.828	0.655	-0.714	-0.894	-1.000	-0.393	-1.000
February																	
March	-0.600	0.655	-0.338	-0.207	0.339	-0.771	-0.714	0.334	-0.131	-0.714	0.621	-0.169	-0.600	-	-0.771	-0.655	-0.943**
April																	
May	-0.571	0.504	-0.577	0.000	0.179	-0.548	-0.238	0.184	-0.126	-0.738*	0.065	-0.214	-0.643	-	-0.892***	-0.491	-0.929****
June																	
July	-0.750	-	-0.791*	0.204	-0.158	-0.090	0.107	-0.866*	-0.579	-0.607	-0.158	-0.386	-0.643	0.000	-0.893**	-0.356	-1.000
August	-0.900	0.707	-0.354	0.000	0.707	-0.975	-0.100	-0.354	0.577	-0.900	0.577	0.289	-0.700	0.866	-1.000	0.866	-1.000
September	-0.500	-	-0.267	-0.408	0.134	-0.865*	0.500	-0.866*	-0.206	-0.286	0.000	0.118	-0.429	-	-0.964****	-0.677	-1.000
October	-0.429	0.791*	-0.668	0.772	0.541	-0.600	0.086	-0.433	0.029	-0.657	0.207	-0.030	-0.714	-	-0.812	0.507	-1.000
November	-0.900	-0.354	-	-	-0.258	-0.400	0.400	-0.866	0.632	-0.800	-0.105	0.000	-1.000	-0.316	-0.800	0.316	-0.800
December																	
Pos	0	5	1	5	6	0	5	2	4	0	6	4	0	2	0	4	0
Neg	8	1	6	2	2	8	3	6	4	8	2	4	8	2	8	4	8
Trend	neg trend	pos trend	neg trend	no trend	pos trend	neg trend	no trend	neg trend	no trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	neg trend

Exploits (@ Aspen Brook)- NF02YO0020

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.867****	0.636	0.390	-0.407	0.006	-0.482	-0.81*	-0.359	-0.843**	-0.770**	-0.942****	0.420	-0.442	-0.098	0.321	0.238	0.026	0.224
February	0.179	-0.908****	0.122	0.500	0.619	0.144	0.179	0.360	0.546	-0.095	-0.405	0.643	-0.287	0.156	0.095	0.600	-0.162	-0.866
March	0.381	0.149	0.233	0.116	-0.441	-0.190	0.714	0.755*	0.390	-0.650	-0.393	-0.333	-0.383	-0.142	0.024	-0.857*	-0.810	-0.949
April	0.267	-0.258	0.335	-	0.377	0.267	-0.008	-0.226	-0.203	-0.276	-0.059	-0.711*	-0.190	-0.145	0.667	0.238	0.067	-0.638
May	-0.667	-0.174	0.517	0.524	-0.051	-0.238	-0.611	-0.337	-0.551	-0.683	-0.569	-0.267	-0.460	0.192	0.433	-0.714	-0.285	-0.878
June	-0.850**	0.040	0.050	-0.075	-0.183	-0.503	-0.571	-0.400	-0.267	-0.917****	-0.678	0.156	-0.633	0.400	0.033	-0.214	-0.098	-
July	-0.745*	0.453	0.091	-0.357	0.042	-0.650	-0.351	0.052	-0.420	-0.879****	-0.433	0.008	-0.152	-0.141	0.345	0.060	-0.067	-0.648
August	0.055	0.758	0.084	0.522	0.151	0.603	0.276	0.857***	-0.658	-0.682*	-0.440	0.669*	-0.136	-0.400	0.515	0.267	0.467	-0.414
September	-0.802*	0.596	0.583	0.524	0.117	-0.695	-0.755*	-0.268	-0.158	-0.750*	-0.733*	0.347	0.276	-0.092	-0.024	-0.524	0.060	-0.866
October	-0.903****	0.769**	0.444	-0.700*	0.806***	-0.477	-0.533	-	-0.628	-0.650	-0.350	0.726*	-0.452	-0.077	0.100	-0.283	-0.479	0.778
November	-0.565	0.535	-0.152	0.061	0.685*	-0.236	-0.394	0.111	-0.843****	-0.802***	-0.468	0.176	-0.535	0.110	0.100	0.502	-0.298	-0.247
December	-0.711*	0.480	0.294	0.299	0.402	-0.636	-0.924****	-0.681	-0.514	-0.782**	-0.770**	-0.051	-0.297	0.019	0.176	-0.048	0.218	-
Pos	4	9	11	7	9	3	3	5	2	0	0	8	1	5	11	6	5	2
Neg	8	3	1	4	3	9	9	6	10	12	12	4	11	7	1	6	7	8
Trend	neg trend	pos trend	pos trend	no trend	pos trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.828**	-	-0.137	-0.091	-0.111	-0.753*	-0.017	-0.677	-0.359	-0.350	-0.046	-0.373	-0.633	-	-0.883****	-0.018	-0.867****
February	-0.821*	-	-0.312	-0.802*	-0.571	-0.964****	-0.071	-0.134	-0.906**	-0.643	-0.394	-0.225	-0.893**	-	-0.865*	-0.709	-0.893**
March	-0.595	-	0.148	-0.218	-0.393	-0.390	-0.786	-0.031	-0.434	-0.667	-0.069	-0.544	-0.590	-0.500	-0.619	-0.509	-0.429
April	-0.033	-	0.692	0.538	0.420	0.200	0.217	-0.495	0.211	0.150	0.365	0.376	0.050	0.707	0.252	0.366	0.167
May	-0.550	-	0.693	0.183	-0.119	-0.285	0.000	-0.677	-0.781*	-0.100	0.518	-0.598	-0.433	-0.894	-0.820**	-0.775*	-0.483
June	-0.929****	-	0.873**	0.126	0.646	-0.838**	0.048	-0.109	-0.234	-0.814*	0.630	0.452	-0.857**	-0.316	-0.892***	0.378	-0.690
July	-0.950****	-	0.274	0.548	0.009	-0.444	0.100	-0.677	-0.387	-0.267	0.091	-	-0.950****	-0.258	-0.783**	0.027	-0.867****
August	-0.867****	-	0.000	0.284	-0.395	-0.675*	0.745**	-0.513	0.290	0.500	-0.075	0.548	-0.678	-0.258	0.429	-0.113	-0.833***
September	-0.810*	-	-0.289	0.577	-0.592	-0.643	0.524	-0.866**	-0.109	0.060	-0.077	-0.464	-0.723	-0.707	-0.639	-0.464	-0.762*
October	-0.721*	-	0.435	0.000	0.080	-0.410	-0.167	-0.535	0.369	-0.400	-0.040	-0.009	-0.778*	0.258	-0.552	0.312	-0.800**
November	-0.721*	-	-0.550	-0.289	-0.730*	-0.746*	-0.233	-0.837***	-0.584	-0.483	0.183	-0.234	-0.916****	-0.738	-0.667	-0.586	-0.717*
December	-0.750*	-	0.319	0.725*	0.082	-0.838**	0.143	-0.183	-0.694	-0.143	0.577	-0.103	-0.476	0.258	-0.548	-0.151	-0.635
Pos	0		8	8	5	1	7	0	3	3	6	3	1	3	2	4	1
Neg	12		4	4	7	11	5	12	9	9	6	8	11	7	10	8	11
Trend	neg trend		no trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	neg trend	no trend	neg trend	no trend	neg trend

Exploits (@ Grand Falls)- NF02YO0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.795****	0.310	-0.604*	-0.600	0.392	-0.910****	-0.696*	-0.818****	-0.589	-0.825****	-0.328	-0.412	-0.025	0.714**	0.676**	-0.119	-	-0.401
February	-0.467	0.287	-0.371	-	0.366	-0.036	-0.126	-0.393	-0.054	-0.750	-0.393	-0.778*	0.204	0.299	0.395	0.000	-	-0.775
March	-0.487	0.429	-0.633**	-0.450	0.178	-0.296	-0.297	-0.332	0.038	-0.824****	-0.662**	0.284	-0.186	-0.093	0.520	-0.373	-	-0.749*
April	-0.072	0.837*	0.509	-	0.582	0.198	0.355	0.429	0.179	-0.309	-0.377	-0.500	0.400	-0.036	-0.143	0.638	-	-0.866
May	-0.658*	0.378	0.101	-0.500	-0.109	-0.695	-0.712*	-0.800**	-0.100	-0.723*	-0.767***	0.190	0.077	0.574	0.059	-0.240	-	-0.546
June																	-	
July	-0.795***	0.420	-0.360	0.500	0.631*	-0.421	-0.667*	-0.111	-0.255	-0.821***	-0.712**	0.353	0.074	0.222	0.881****	-0.012	-	-0.764*
August	-0.821*	0.775	-0.928*	-	0.808*	-0.030	-0.638	0.314	-0.029	-0.754	-0.778	0.679	-0.580	0.541	0.847*	-0.609	-	-0.775
September	-0.545	0.687*	-0.685*	-	-0.046	-0.017	-0.879****	-0.150	-0.712*	-0.764***	-0.706*	0.383	-0.346	0.374	0.255	-0.181	-	0.245
October																	-	
November	-0.857**	0.602	-0.455	-	0.170	-0.756*	-0.872**	-0.850**	-0.101	-0.854**	-0.970****	-0.429	0.025	-0.036	-0.162	-0.200	-	-
December																	-	
Pos	0	9	2	1	7	1	1	2	2	0	0	5	5	6	7	2		1
Neg	9	0	7	3	2	8	8	7	7	9	9	4	4	3	2	7		7
Trend	neg trend	pos trend	neg trend		pos trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	pos trend	neg trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

North West Gander River- NF02YQ0006

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	-0.479	0.018	0.721*	0.429	-0.195	-0.617	-0.494	-0.717*	-0.678	-0.802***	-0.418	-0.553	-0.470	-0.608	-0.588	-0.333	-0.633	-0.278
March																		
April	0.400	-0.018	0.633	-0.587	0.377	0.267	0.435	0.467	0.477	-0.050	0.533	-0.318	-0.319	-0.109	0.357	0.084	-0.500	-0.432
May																		
June	-0.316	-0.277	0.164	0.783**	-0.226	-0.695	-0.285	0.017	-0.410	0.006	-0.328	-0.444	-0.152	0.192	0.150	-0.467	-0.608	-0.509
July																		
August	-0.782**	0.587	-0.134	0.427	-0.358	-0.600	-0.750*	-0.134	-0.899****	-0.539	-0.723	0.620	-0.817**	0.391	0.025	0.250	0.418	0.232
September																		
October	-0.286	0.342	-0.143	-0.464	0.396	0.257	-0.200	0.029	-0.232	-0.429	-0.143	0.393	-0.500	0.338	0.536	-0.200	-0.167	-0.500
November																		
December	0.430	0.168	0.061	-0.033	0.523	-0.033	0.417	0.770*	0.000	-0.309	0.164	0.212	0.207	-0.067	0.195	0.467	-0.438	-0.265
Pos	2	4	4	3	3	2	2	4	2	1	2	3	1	3	5	3	1	1
Neg	4	2	2	3	3	4	4	2	4	5	4	3	5	3	1	3	5	5
Trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	no trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	-0.647	0.548	0.241	-0.323	-0.655	-0.494	-0.317	-0.344	-0.647	-0.417	0.183	-0.305	-0.568	0.256	-0.350	-0.523	-0.160
March																	
April	0.226	-	0.137	-0.096	0.333	-0.050	-0.217	-0.233	0.068	0.033	0.000	0.420	0.238	0.500	0.418	0.265	-0.328
May																	
June	-0.289	0.522	0.348	0.007	-0.753**	0.295	-0.479	-0.182	-0.175	0.091	-0.125	-0.372	-0.395	-0.632	-0.598	-0.395	0.147
July																	
August	-0.116	0.522	0.522	0.604	-0.540	-0.591	0.248	-0.507	-0.109	-0.116	-0.491	0.055	-0.130	0.447	-0.564	-0.525	0.450
September																	
October	-0.132	0.577	0.577	0.393	-0.291	-0.364	0.214	0.169	-0.356	0.357	0.612	0.054	-0.218	-	-0.107	-0.791*	0.144
November																	
December	-0.139	0.522	0.284	0.374	0.298	-0.625	0.167	-0.507	-0.485	0.367	0.593	0.809**	0.139	-0.775	0.353	0.645	0.034
Pos	1	5	6	4	2	1	3	1	1	4	4	4	2	3	2	2	4
Neg	5	0	0	2	4	5	3	5	5	2	2	2	4	2	4	4	2
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend

Gander River (@ Appleton)- NF02YQ0030

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	-0.429	-0.116	0.393	-0.205	-0.144	-0.116	-0.203	-0.759	-0.213	-0.357	-0.036	-0.631	-0.571	-0.180	0.179	-0.321	-0.286	-0.845
March																		
April	-0.543	0.837	0.522	0.100	-0.029	-0.714	-0.543	-0.886*	-0.883	-0.870	-0.543	0.232	-0.200	-0.123	0.000	0.261	-0.600	-0.093
May																		
June	-0.571	-0.045	-0.464	-0.086	0.234	-0.377	-0.203	-0.577	-0.638	-0.500	-0.643	-0.250	0.143	-0.378	-0.486	-0.179	-0.955***	-0.289
July																		
August	-0.487	-0.134	-0.107	0.174	-0.429	-0.406	-0.486	0.086	-0.088	0.143	0.071	0.250	-0.071	-0.055	0.286	-0.126	-0.286	-0.507
September																		
October	-0.500	0.599	-0.090	0.657	0.414	0.232	-0.290	-0.314	-0.290	0.714	0.257	-0.216	0.214	-0.232	0.257	-0.306	-0.829*	0.439
November																		
December	-0.643	-0.060	-0.342	0.714	-0.179	-0.771	-0.371	-0.500	-0.406	-0.144	-0.286	0.509	0.234	-0.216	0.071	-0.342	-0.964****	-0.926*
Pos	0	2	2	4	2	1	0	1	0	2	2	3	3	0	5	1	0	1
Neg	6	4	4	2	4	5	6	5	6	4	4	3	3	6	1	5	6	5
Trend	neg trend	no trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	-0.054	0.612	0.612	0.316	0.045	-0.396	-0.393	-0.433	-0.510	-0.214	0.612	-0.342	0.299	-0.775	-0.612	0.433	0.054
March																	
April	-0.200	-	-	-0.154	0.665	0.794	-0.200	-0.051	-0.926*	-0.486	0.131	-0.928*	-0.507	-	-0.771	0.393	-0.522
May																	
June	-0.505	0.612	0.612	0.612	0.612	0.473	-0.250	0.168	-0.134	-0.613	0.612	0.000	0.657	-	-0.607	0.791*	0.519
July																	
August	-0.091	0.612	0.612	0.632	-0.558	0.636	0.286	-0.433	-0.535	0.286	0.144	0.482	0.612	0.775	-0.450	0.577	0.321
September																	
October	-0.342	0.612	0.612	-0.169	0.655	0.232	-0.086	0.056	-0.309	0.029	0.414	0.261	0.068	-	-0.600	0.828	-0.058
November																	
December	-0.631	0.612	0.612	0.655	-0.828	-0.771	-0.143	-0.433	-0.926*	-0.638	0.655	-0.783	-0.167	-0.447	-0.829	-0.309	-0.736
Pos	0	5	5	4	4	4	1	2	0	2	6	3	4	1	0	5	3
Neg	6	0	0	2	2	2	5	4	6	4	0	3	2	2	6	1	3
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	-	neg trend	pos trend	no trend

Gander River- NF02YQ0005

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	C2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	0.493	0.131	0.714	-0.086	-0.143	-0.086	-0.116	0.265	-0.029	-0.086	-0.086	0.841	0.257	-0.736	0.543	-0.200	0.486	-0.500
March																		
April	0.491	-0.082	0.214	-0.306	0.060	0.405	-0.204	0.299	-0.330	-0.286	0.024	-0.491	0.268	-0.127	0.071	0.198	-0.381	-0.447
May																		
June	0.564	-0.060	0.179	0.286	-0.143	-0.126	0.000	0.236	-0.473	-0.018	-0.786*	0.714	-0.571	0.618	0.679	0.257	0.464	-0.775
July																		
August	0.563	0.638	0.467	0.180	0.190	0.805*	-0.563	0.833*	-0.714	0.145	-0.778*	0.695	-0.108	-0.287	0.143	0.679	0.690	0.000
September																		
October	0.393	0.289	0.357	-0.214	0.218	0.234	-0.393	0.691	-0.642	-0.286	-0.360	0.571	-0.857*	0.112	0.429	-0.086	0.429	0.500
November																		
December	0.024	0.535	0.429	-0.657	0.143	-0.386	-0.571	0.323	-0.590	-0.405	-0.095	0.096	-0.310	0.216	0.333	-0.393	-0.095	-0.738
Pos	6	4	6	2	4	3	1	6	0	1	1	5	2	3	6	3	4	2
Neg	0	2	0	4	2	3	5	0	6	5	5	1	4	3	0	3	2	4
Trend	pos trend	no trend	pos trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	neg trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	-0.086	-	0.000	0.393	-0.058	0.493	0.600	-	0.621	0.116	-	0.116	-0.655	-	0.600	-0.154	0.087
March																	
April	-0.407	-	-0.252	-0.203	0.409	0.072	-0.095	-0.134	0.368	0.024	0.082	0.602	0.302	0.447	0.347	0.605	0.061
May																	
June	0.225	-	-0.612	-0.309	-0.709	-0.546	0.393	-	-0.433	0.378	-	-0.259	-0.279	0.258	0.036	0.000	0.259
July																	
August	0.461	-	-0.577	-0.109	0.145	-0.874**	0.667	0.707	-0.315	0.119	-0.756	0.454	-0.632	0.775	0.168	-0.275	0.831*
September																	
October	-0.200	-	-0.612	-0.289	-0.216	-0.087	0.943**	-0.717	0.000	0.543	-	0.116	-0.338	0.000	0.516	0.093	-0.334
November																	
December	-0.342	-	-0.536	-0.204	0.656	-0.414	0.821*	0.655	0.393	0.536	-	0.778	0.177	-0.775	0.018	0.144	-0.162
Pos	2		1	1	3	2	5	2	4	6	1	5	2	4	6	4	4
Neg	4		5	5	3	4	1	2	2	0	1	1	4	1	0	2	2
Trend	no trend		neg trend	neg trend	no trend	no trend	pos trend	no trend	no trend	pos trend	-	pos trend	no trend	no trend	pos trend	no trend	no trend

Pound Cove Brook- NF02YR0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.233	0.237	0.100	-0.408	-0.433	-0.217	-0.183	-0.083	-0.283	-0.050	0.067	-0.233	-0.335	-0.008	0.350	-0.262	-0.133	-0.866
February	0.042	0.775**	0.213	-0.577	-0.333	-0.345	-0.006	-0.079	-0.091	-0.248	0.176	-0.182	-0.492	-0.122	0.333	0.033	-0.328	-0.177
March	-0.127	0.640	0.733*	-0.360	0.055	-0.328	-0.103	-0.288	-0.431	-0.261	0.006	-0.018	-0.370	0.103	0.417	0.017	-0.212	-0.338
April	0.370	0.810***	0.491	-0.075	-0.438	0.006	0.382	0.358	0.448	-0.127	0.426	0.146	-0.442	0.579	0.600	0.042	-0.067	0.158
May	-0.381	0.000	0.826*	0.762*	0.036	-0.524	-0.476	-0.548	-0.217	-0.371	-0.381	-0.524	-0.643	-0.562	-0.286	0.429	-0.587	0.577
June	-0.200	0.244	0.076	0.405	-0.393	-0.479	-0.310	-0.738*	0.144	-0.033	-0.117	0.117	-0.143	-0.115	0.533	0.602	0.167	-0.655
July	0.539	0.265	0.564	0.897***	-0.869****	0.234	0.167	0.067	0.200	-0.043	0.358	0.503	0.353	-0.226	0.770**	0.661	0.661*	-0.433
August	-0.383	0.477	0.667	0.183	-0.450	-0.469	-0.517	-0.250	-0.286	-0.467	-0.467	0.681	-0.452	0.028	0.476	0.690	0.533	0.447
September	0.248	0.529	0.564	-0.145	-0.778**	-0.500	-0.643	-0.371	-0.571	0.017	-0.200	0.661*	-0.550	0.522	0.350	0.830****	0.564	0.231
October	-0.433	0.724*	0.167	-0.745*	-0.487	-0.385	-0.550	-0.435	-0.561	-0.483	-0.383	0.450	-0.458	0.139	0.667	-0.310	0.533	0.158
November	-0.109	0.378	0.516	-0.237	-0.601	-0.301	-0.387	-0.066	-0.333	-0.393	0.068	0.000	-0.105	-0.153	0.492	-0.176	-0.224	0.399
December	0.018	0.455	0.231	-0.467	-0.455	-0.083	-0.050	0.133	0.059	-0.430	0.236	0.243	-0.406	0.208	0.527	0.134	-0.261	-0.293
Pos	5	12	12	4	2	2	2	3	4	1	7	8	1	6	11	9	5	6
Neg	7	0	0	8	10	10	10	9	8	11	5	4	11	6	1	3	7	6
Trend	no trend	pos trend	pos trend	no trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.009	0.153	-	-0.035	-0.213	-0.075	-0.100	-0.598	0.059	-0.200	-	-0.788**	-0.136	-0.258	-0.050	-0.176	-0.159
February	0.135	0.120	0.522	0.426	0.119	-0.068	-0.479	-0.344	-0.188	-0.200	0.522	0.020	0.043	-	-0.006	0.149	-0.036
March	-0.305	0.123	0.225	-0.822***	-0.483	-0.555	0.345	0.355	-0.085	0.018	-0.078	-0.500	-0.421	-0.632	-0.202	-0.681*	-0.123
April	0.117	0.254	-	-0.216	0.224	0.050	0.455	-0.018	0.000	0.212	-	0.214	-0.239	0.264	0.261	0.290	0.252
May	-0.707	-0.454	-	-0.412	-0.463	-0.095	-0.548	-0.896**	-0.536	-0.216	-	-0.784**	-0.558	-0.258	-0.690	-0.183	-0.766*
June	-0.368	0.026	0.548	-0.303	-0.149	0.252	0.483	-0.038	-0.647	0.243	-0.359	-0.671	-0.479	0.258	-0.517	0.624	0.083
July	0.263	0.280	-	0.165	0.554	0.098	0.806***	-0.034	-0.646	0.745**	-	-0.553	-0.317	-0.738	0.328	0.351	0.036
August	-0.050	0.455	0.023	0.093	-0.638	-0.059	0.083	-0.134	-0.826*	0.033	-0.229	0.044	-0.077	-0.316	-0.409	0.000	0.033
September	0.561	0.562	0.701*	0.591	-0.132	-0.321	0.333	0.218	-0.644	0.535	0.406	-0.013	0.122	-0.707	0.164	0.352	0.098
October	-0.597	0.035	0.274	-0.451	0.281	-0.563	0.429	-0.498	-0.520	-0.048	-	-0.073	-0.643	-0.775	-0.048	0.192	0.317
November	-0.369	-0.135	-	-0.335	-0.067	-0.059	0.061	-0.825**	-0.702*	0.195	-	-0.406	-0.646	-0.525	-0.073	-0.020	-0.538
December	-0.500	0.025	0.522	-0.224	0.087	-0.636	-0.067	-0.408	-0.521	-0.367	-0.091	-0.456	-0.009	-0.775	-0.117	0.274	-0.351
Pos	5	10	7	4	5	3	8	2	2	7	2	3	2	2	3	8	6
Neg	7	2	0	8	7	9	4	10	10	5	4	9	10	9	9	4	6
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend

Terra Nova River (@ Newton Lake)- NF02YS0012

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.400	0.166	0.300	-0.190	0.217	-0.450	-0.571	-0.350	-0.424	-0.351	-0.167	-0.633	0.100	-0.159	0.310	0.048	0.142	-0.410
February																		
March	0.017	-0.134	0.661	-0.393	-0.452	-0.033	-0.310	-0.150	-0.719	-0.096	-0.333	-0.500	-0.467	0.289	0.190	-0.321	-0.583	-0.600
April																		
May	-0.323	-0.084	0.060	0.714	0.095	-0.095	-0.500	-0.060	-0.073	-0.095	-0.310	-0.398	-0.095	0.491	-0.071	0.357	-0.228	0.103
June																		
July	-0.857*	0.291	0.679	0.216	-0.214	-0.811*	-0.847*	-0.750	-0.321	-0.429	-0.857*	-0.288	-0.143	0.612	0.252	-0.714	0.071	-0.500
August																		
September	-0.714	0.120	0.929***	-0.714	-0.286	-0.286	-0.714	-0.357	-0.775	-0.250	-0.607	-0.250	-0.107	-0.045	-0.371	-0.321	0.071	1.000***
October																		
November	-0.510	0.256	0.787**	-0.517	-0.200	-0.050	-0.717*	-0.251	-0.863***	-0.510	-0.167	-0.417	-0.550	0.264	-0.167	-0.167	0.067	0.410
December																		
Pos	1	4	6	2	2	0	0	0	0	0	0	0	1	4	3	2	4	3
Neg	5	2	0	4	4	6	6	6	6	6	6	6	5	2	3	4	2	3
Trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.017	-	0.086	-0.277	0.085	0.243	0.033	-0.393	0.085	0.067	-0.274	-0.034	-0.244	-	-0.259	-0.254	0.333
February																	
March	-0.254	-	-0.071	-0.358	-0.310	-0.042	-0.617	0.556	-0.483	-0.417	0.414	0.104	-0.353	-0.316	-0.276	-0.564	0.167
April																	
May	-0.356	-	0.247	0.218	-0.378	0.024	-0.381	-0.866*	0.209	-0.095	0.000	-0.339	-0.294	0.775	-0.439	0.772*	-0.401
June																	
July	0.036	-	0.577	0.374	0.414	-0.523	0.000	-0.169	-0.382	-0.036	0.200	0.185	-0.598	-0.500	-0.811*	-0.120	-0.741
August																	
September	-0.259	-	0.791*	-0.220	0.000	-0.393	0.306	-0.741	-0.321	-0.071	0.945***	0.273	-0.356	-	-0.393	0.374	-0.306
October																	
November	-0.350	-	0.137	0.154	-0.848**	-0.123	0.381	-0.866*	-0.682	0.500	-0.627	-0.355	-0.847**	-0.707	-0.252	-0.300	-0.759*
December																	
Pos	2		5	3	3	2	4	1	2	2	4	3	0	1	0	2	2
Neg	4		1	3	3	4	2	5	4	4	2	3	6	3	6	4	4
Trend	no trend		pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Terra Nova River (@ Terra Nova)- NF02YS0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.200	-0.516	0.438	-0.333	0.091	-0.018	-0.150	-0.377	0.530	-0.267	0.261	-0.646	-0.477	0.318	-0.115	0.000	-0.164	-0.706
February																		
March	0.008	0.120	0.633	-0.250	0.418	0.367	0.117	-0.318	0.684	-0.383	0.017	-0.067	-0.359	0.209	0.335	0.405	-0.250	0.200
April																		
May	0.091	-0.157	0.745**	0.156	0.139	0.444	0.483	0.034	0.471	-0.018	0.248	-0.345	0.042	0.261	0.192	0.017	-0.237	0.077
June																		
July	-0.091	-0.640	0.109	0.429	-0.134	0.214	0.500	-0.108	0.667	-0.350	0.390	-0.171	-0.276	-0.134	0.333	-0.417	-0.043	-0.433
August																		
September	0.267	0.170	0.533	-0.704	-0.136	0.762	0.228	0.293	0.156	0.067	0.083	0.283	0.628	0.177	0.595	0.233	0.250	0.377
October																		
November	0.410	0.698	0.817**	0.184	0.067	0.378	-0.293	-0.126	-0.192	0.184	0.617	-0.209	0.159	0.790**	0.214	0.491	0.533	0.564
December																		
Pos	4	3	6	3	4	5	4	2	5	2	6	1	3	5	5	5	2	4
Neg	2	3	0	3	2	1	2	4	1	4	0	5	3	1	1	1	4	2
Trend	no trend	no trend	pos trend	no trend	no trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend	no trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.122	0.522	0.472	0.569	0.451	0.152	0.030	-0.319	0.032	0.152	0.456	0.063	0.451	-0.775	0.140	0.348	0.267
February																	
March	-0.311	-	0.479	-0.129	-0.168	0.261	-0.450	0.139	-0.493	0.083	-0.101	0.111	-0.160	-0.866	-0.100	-0.085	-0.025
April																	
May	-0.800***	-	0.290	0.226	0.026	0.308	-0.321	-0.894****	0.197	-0.309	-0.114	0.146	-0.127	-0.258	-0.079	0.305	-0.322
June																	
July	-0.597	0.522	0.569	0.569	0.106	-0.624	-0.264	0.034	-0.454	0.345	-0.139	-0.153	-0.665*	-0.894	-0.299	-0.057	-0.208
August																	
September	0.000	-	0.365	-0.248	0.122	-0.510	0.467	-0.873**	0.306	-0.200	0.294	-0.106	0.148	-	0.303	0.170	0.335
October																	
November	0.378	-	-	0.234	0.408	0.683	0.429	-0.866*	-0.027	0.405	-0.082	0.143	-0.026	-	0.096	0.571	0.287
December																	
Pos	3	2	5	4	5	4	3	2	3	4	2	4	2	0	3	4	3
Neg	3	0	0	2	1	2	3	4	3	2	4	2	4	4	3	2	3
Trend	no trend	-	pos trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	-	no trend	no trend	no trend

Terra Nova River (@ E.S. Spencer Bridge)- NF02YS0011
Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.406	0.046	-0.139	-0.494	0.079	-0.394	-0.067	-0.382	-0.068	-0.347	-0.333	-0.297	0.274	-0.085	-0.309	-0.159	-0.401	-0.088
February																		
March	0.236	0.604	0.685*	-0.479	0.207	0.018	0.370	0.109	0.693*	0.152	0.370	0.505	0.158	0.402	0.450	0.300	0.103	-0.621
April																		
May	0.167	0.110	-0.048	0.144	-0.619	-0.310	0.333	-0.518	-0.038	0.238	0.156	-0.455	-0.366	0.467	-0.143	0.429	0.190	-0.354
June																		
July	-0.464	0.000	0.373	-0.214	0.018	-0.135	-0.377	-0.171	-0.336	-0.578	0.037	0.383	0.128	-0.232	0.591	-0.547	-0.159	-0.069
August																		
September	-0.530	0.638	0.643	-0.310	-0.357	-0.690	-0.548	-0.643	-0.575	-0.838**	-0.833**	0.286	-0.324	-0.125	0.643	-0.143	0.667	0.354
October																		
November	-0.663*	0.655*	0.851****	-0.188	-0.073	-0.261	-0.685*	-0.274	-0.348	-0.273	-0.370	0.164	-0.055	0.243	0.350	-0.067	0.139	0.759
December																		
Pos	2	6	4	1	3	1	2	1	1	2	3	4	3	3	4	2	4	2
Neg	4	0	2	5	3	5	4	5	5	4	3	2	3	3	2	4	2	4
Trend	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.335	0.701*	0.610	0.435	0.140	-0.104	0.042	-0.309	-0.116	-0.505	0.522	0.434	0.000	0.000	-0.333	0.347	-0.042
February																	
March	0.748**	0.701*	0.150	0.273	-0.043	0.573	0.709	0.203	0.340	0.782**	-0.067	0.295	-0.119	-0.316	0.430	0.020	0.636
April																	
May	-0.073	0.577	0.082	0.065	-0.156	-0.289	0.048	-0.866*	-0.146	-0.143	-0.247	-0.365	-0.025	-0.894	-0.659	0.164	-0.172
June																	
July	-0.383	0.858****	0.598	0.206	0.112	-0.066	0.269	0.013	-0.234	0.000	0.520	0.425	-0.303	-0.894	-0.382	0.100	-0.201
August																	
September	0.506	-	-	-0.378	-0.365	-0.331	0.548	-0.866*	0.179	0.571	0.507	0.000	-0.501	-0.289	-0.524	0.436	0.012
October																	
November	0.298	0.218	-0.202	0.193	0.143	-0.267	0.083	-0.873**	0.319	0.067	0.000	-0.061	-0.305	-0.707	-0.542	0.084	-0.068
December																	
Pos	3	5	4	5	3	1	6	2	3	4	4	4	1	1	1	6	2
Neg	3	0	1	1	3	5	0	4	3	2	2	2	5	5	5	0	4
Trend	no trend	pos trend	no trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend

Bread Cove Brook- NF02YS0010

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.548	0.865**	-0.675	0.086	-0.419	-0.690	-0.476	-0.587	-1.000***	-0.095	0.048	0.347	-0.663	0.061	0.405	-0.214	0.357	0.000
February	-0.393	0.632	0.618	-0.771	0.036	-0.464	-0.286	-0.429	-0.593	-0.714	-0.071	0.286	0.107	0.018	-0.179	-0.771	-0.018	0.000
March	0.377	0.245	0.563	-0.417	0.033	0.433	0.350	0.267	-0.197	0.000	0.350	-0.234	0.301	0.377	0.381	0.119	-0.150	-0.707
April	0.350	0.450	0.773*	0.505	0.092	0.305	0.318	0.153	0.145	-0.150	0.393	0.042	0.183	-0.105	0.214	-0.071	0.301	-0.393
May	-0.762*	0.342	0.976****	0.214	-0.551	-0.755*	-0.667	-0.771*	-0.255	0.048	-0.429	-0.024	-0.500	0.491	-0.132	0.857*	-0.024	-0.354
June	-0.295	-0.138	0.370	0.347	-0.398	-0.240	-0.671	-0.358	-0.458	-0.072	-0.659	-0.090	-0.638	0.083	0.355	0.600	0.455	-0.229
July	-0.429	0.898**	0.636	0.714	-0.252	-0.429	-0.464	-0.324	-0.559	-0.357	-0.214	0.179	0.703	-0.612	0.357	-0.294	0.396	-
August	-0.500	0.764	0.347	0.671	-0.667	-0.452	-0.500	-0.452	-0.711	-0.357	-0.500	0.429	-0.631	0.382	0.179	-0.536	0.766*	-0.775
September	-0.720	0.624	0.658	0.210	-0.849***	-0.586	-0.519	-0.510	-0.718*	-0.811**	-0.502	0.244	-0.276	-0.408	-0.036	-0.067	0.527	-0.554
October	-0.667	0.276	0.083	-0.417	-0.067	-0.533	-0.717*	-0.418	-0.412	-0.617	-0.728*	0.117	-0.717*	-0.158	0.024	-0.548	0.167	0.707
November	-0.778**	0.411	0.363	0.085	0.228	-0.693*	-0.888****	-0.467	-0.753**	-0.085	-0.544	-0.177	-0.037	0.480	0.042	0.193	-0.448	-0.078
December	-0.433	0.754*	0.243	-0.275	-0.433	-0.370	-0.683	-0.375	-0.562	-0.500	0.083	0.603	-0.183	0.393	-0.109	0.548	-0.146	0.000
Pos	2	11	11	8	4	2	2	2	1	2	4	8	4	8	8	5	7	4
Neg	10	1	1	4	8	10	10	10	11	10	8	4	8	4	4	7	5	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.500	-	-	-0.056	-0.187	-0.325	0.381	-0.555	0.000	-0.190	0.577	-	-0.327	-0.894	-0.619	0.078	-0.781*
February	0.071	-	-	0.158	-0.579	0.112	-0.090	0.707	-0.400	0.036	-	-0.401	-0.535	0.000	-0.429	-0.716	-0.250
March	0.134	-	-0.411	0.346	-0.174	0.218	-0.059	0.056	-0.616	-0.283	0.000	0.104	-0.621	-0.866	0.268	-0.089	0.094
April	0.429	-	-	-0.525	0.725*	-0.111	0.350	-0.383	0.194	0.300	0.183	0.000	0.137	-0.112	0.417	-0.093	-0.086
May	-0.533	-	-	-0.082	0.082	-0.238	-0.095	-0.926**	-0.300	-0.167	-	-0.082	0.204	0.258	-0.819	0.395	-0.443
June	-0.123	-	-	0.317	-0.220	-0.528	-0.283	-0.397	0.038	-0.156	-	-0.242	-0.249	-0.344	-0.311	-0.201	-0.228
July	-0.109	-	-	0.612	-0.089	-0.519	0.286	-0.169	-0.579	-0.286	-0.408	-0.408	-0.797*	-0.866	-0.564	-0.239	-0.327
August	-0.167	-	-0.191	-0.655	-0.482	-0.491	-0.238	-0.828	-0.855*	0.167	-0.514	-0.078	-0.514	0.775	-0.405	-0.583	0.060
September	-0.452	-	0.000	0.510	0.602	-0.439	0.477	-0.850**	-0.318	0.008	0.733*	0.254	-0.069	-0.544	-0.720*	0.448	-0.068
October	-0.450	-0.411	-0.411	-0.660	-0.516	-0.822*	0.214	-0.694	-0.537	-0.167	-0.536	-0.255	-0.846**	-0.866	-0.524	-0.859**	-0.702
November	-0.012	-	-	0.160	0.000	-0.009	-0.192	-0.891*	-0.035	-0.206	0.550	0.206	-0.116	-0.725	-0.414	0.000	-0.412
December	-0.255	-	-	-0.082	0.577	-0.393	0.190	-0.878	-0.013	-0.156	-	0.546	0.409	0.000	-0.299	0.143	0.072
Pos	3		1	6	5	2	6	2	3	4	5	5	3	4	2	5	3
Neg	9	1	3	6	7	10	6	10	9	8	3	6	8	8	10	7	9
Trend	no trend			no trend	no trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	no trend	neg trend	no trend	neg trend	no trend	neg trend

Southwest Brook (@ Terra Nova National Park)- NF02YS0005

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.770**	0.308	0.292	-0.321	0.042	-0.370	-0.850***	-0.588	-0.711*	-0.333	-0.321	-0.721*	0.006	-0.500	-0.673*	-0.100	-0.648*	-0.414
February	-0.233	0.668	0.617	-0.476	0.600	0.067	-0.517	-0.234	-0.143	-0.383	-0.600	-0.939	-0.200	-0.033	-0.335	0.333	-0.479	-0.354
March	-0.250	0.560	0.745*	-0.527	-0.050	-0.183	-0.400	-0.150	-0.407	-0.025	0.067	-0.250	-0.150	-0.293	0.190	-0.659	-0.527	-0.894
April	0.091	0.423	0.055	0.850**	0.608	0.273	0.017	0.224	-0.042	-0.224	0.382	-0.128	-0.255	-0.075	0.406	-0.030	-0.405	0.218
May	0.091	-0.380	0.896****	0.183	-0.073	-0.393	-0.200	-0.402	-0.185	0.024	0.273	-0.547	-0.515	0.270	-0.188	-0.075	-0.736*	-0.120
June	-0.048	-0.337	0.476	0.802*	-0.190	-0.262	0.048	-0.383	0.429	0.452	0.000	-0.571	0.357	0.709	-0.095	-0.071	-0.524	-0.051
July	-0.333	-0.306	0.059	0.750	-0.291	-0.567	-0.755	-0.683	-0.790*	-0.353	-0.248	0.382	-0.233	-0.017	0.609*	0.103	0.132	0.577
August	-0.400	0.477	-0.117	0.571	-0.417	-0.500	-0.200	-0.333	-0.650	-0.533	-0.267	0.820**	-0.600	-	0.571	-0.500	0.762*	0.205
September	-0.750	0.561	0.679	-0.086	0.073	-0.657	-0.829*	-0.886*	-0.657	-0.393	-0.571	0.214	-0.536	0.099	-0.086	-0.321	0.714	0.632
October	-0.297	0.332	0.006	-0.611	-0.140	-0.350	-0.429	-0.250	-0.204	-0.283	-0.283	0.224	-0.061	0.574	0.317	-0.667	0.152	-0.665
November	-0.176	0.389	0.624	-0.231	0.345	-0.188	-0.309	-0.295	0.128	-0.491	-0.297	-0.515	0.201	-0.488	0.301	0.383	-0.418	0.414
December	-0.452	0.289	0.190	0.571	-0.143	-0.476	-0.333	-0.333	-0.407	-0.084	-0.333	-0.381	-0.536	0.168	0.238	-0.429	-0.405	-0.632
Pos	2	9	11	6	5	2	2	1	2	2	4	4	3	5	7	3	4	5
Neg	10	3	1	6	7	10	10	11	10	10	8	8	9	6	5	9	8	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.514	0.522	-0.313	-0.536	-0.283	-0.555	-0.382	-	-0.268	-0.334	0.522	-0.322	-0.408	-0.894	-0.485	-0.334	-0.195
February	-0.657*	0.522	-0.035	-0.039	-0.068	-0.486	0.382	-	0.193	-0.139	0.000	0.203	-0.089	-	-0.006	0.131	-0.213
March	0.067	-	-0.568	-0.493	-0.381	-0.008	0.033	-	-0.742*	-0.267	0.137	-0.090	-0.317	-0.316	-0.167	-0.691	0.151
April	-0.210	0.671*	0.000	-0.298	0.391	-0.340	0.009	-	-0.328	0.218	0.586	0.462	0.229	0.224	0.005	0.117	-0.554
May	-0.506	-	-0.696*	0.388	-0.820***	-0.492	-0.394	-	-0.782**	-0.333	0.058	-0.415	-0.798***	-	-0.164	-0.356	-0.671*
June	-0.204	-	-0.169	-0.495	-0.801*	-0.651	-0.429	-	-0.025	-0.286	0.630	-0.825*	-0.609	-0.894	-0.524	-0.327	-0.457
July	0.064	0.522	-0.058	-0.309	-0.124	0.157	-0.427	-	-0.676*	-0.227	-0.196	-0.246	-0.632*	-0.258	-0.328	-0.696*	0.111
August	0.539	-	-0.540	0.217	-0.575	0.025	-0.491	-	-0.811*	-0.452	-0.183	0.436	-0.409	0.775	-0.252	-0.615	0.554
September	0.179	-	0.158	-0.538	0.020	0.109	0.286	-	-0.793	-0.357	0.000	0.474	-0.408	-	-0.883*	-0.222	0.306
October	-0.117	-0.696*	-0.075	-0.866***	-0.754*	-0.663	0.083	-	0.084	-0.283	0.725*	0.173	-0.420	-0.316	-0.233	-0.490	-0.008
November	-0.323	-	-0.711	0.149	0.291	0.044	0.433	-	-0.128	0.126	0.137	-0.137	-0.274	-0.577	-0.368	0.408	-0.458
December	-0.398	-	-0.507	-0.158	0.231	-0.414	-0.393	-	0.020	-0.536	-	0.408	0.204	-0.447	-0.162	0.164	-0.162
Pos	4	4	2	3	4	4	6		3	2	9	6	2	2	1	4	4
Neg	8	1	10	9	8	8	6		9	10	2	6	10	7	11	8	8
Trend	no trend	pos trend	neg trend	neg trend	neg trend	no trend	no trend		neg trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Southern Bay River- NF02ZJ0024

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.188	-0.133	0.188	0.000	0.576	0.128	-0.617	0.091	0.502	0.018	-0.529	-0.539	-0.261	-0.316	-0.340	0.283	-0.505	-0.169
February	0.382	0.075	-0.017	-0.561	0.442	0.055	-0.036	0.006	0.517	0.012	0.067	-0.663*	-0.283	-0.261	0.036	0.317	-0.176	-0.224
March	-0.669	-0.328	0.067	-0.186	-0.083	-0.500	-0.828**	-0.583	-0.303	0.067	-0.217	-0.600	-0.400	0.151	0.238	0.120	-0.192	-0.447
April	-0.236	0.249	0.610	-0.262	0.557	-0.164	-0.418	-0.049	0.685	-0.073	-0.073	-0.246	-0.156	-0.272	0.232	-0.152	-0.336	0.394
May	-0.631	0.118	0.378	0.357	0.500	0.393	-0.714	-0.559	0.056	0.000	-0.357	-0.536	-0.393	-0.556	0.429	-0.657	-0.036	0.000
June	-0.571	0.072	0.500	0.288	0.071	-0.286	-0.559	-0.234	0.393	0.464	-0.607	0.179	-0.214	0.039	0.286	-0.290	0.321	-0.316
July	-0.355	0.064	0.109	0.143	-0.182	-0.225	-0.477	0.018	-0.367	0.224	-0.297	0.409	0.218	-0.022	0.445	-0.152	0.127	0.218
August	-0.75	0.849***	0.683	-0.599	-0.583	-0.595	-0.738*	-0.738*	-0.252	0.400	-0.733	0.683	-0.517	-0.383	-0.119	0.395	0.783**	0.447
September	-0.964****	0.811*	0.786*	-0.595	-0.564	-0.857*	-1.000	-0.857*	-0.577	-0.714	-0.829*	0.929***	0.679	-0.955***	0.600	-0.429	0.893**	0.000
October	-0.738	0.146	0.685	0.133	0.086	-0.200	-0.643	0.343	-0.108	-0.650	-0.367	0.212	-0.285	0.358	-0.033	0.214	0.079	-0.655
November	-0.127	0.019	0.438	0.115	0.604	0.286	-0.636	0.210	0.560	-0.297	-0.236	-0.176	-0.632	0.025	-0.033	0.510	-0.297	0.717
December	-0.072	0.195	0.762*	0.667	-0.060	-0.263	-0.381	0.048	-0.122	0.048	-0.286	-0.310	-0.357	0.132	-0.214	0.714	-0.095	-0.775
Pos	1	10	11	7	7	4	0	6	6	8	1	5	2	5	7	7	5	6
Neg	11	2	1	5	5	8	12	6	6	4	11	7	10	7	5	5	7	6
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.406	0.701*	0.522	0.326	-0.076	-0.409	-0.261	-0.134	-0.056	-0.430	0.522	0.212	-0.193	-0.949	0.176	0.461	-0.348
February	-0.324	0.701*	0.000	0.051	-0.025	-0.185	-0.261	-0.139	-0.013	-0.515	0.522	0.161	-0.094	-0.500	0.164	0.037	-0.477
March	-0.790**	0.548	-	0.269	-0.329	0.017	-0.259	0.371	-0.615	-0.133	0.274	-0.251	-0.881****	-0.316	-0.617	0.266	-0.304
April	-0.278	0.783***	0.671*	-0.165	0.462	-0.653*	-0.100	-0.332	-0.089	-0.164	0.710**	0.204	0.231	0.112	-0.127	-0.171	0.065
May	-0.321	0.612	-	0.225	0.045	-0.107	0.429	-0.828	-0.037	-0.214	-	0.401	-0.299	-0.866	-0.090	0.418	-0.577
June	0.357	-	-	0.501	0.267	-0.727	0.090	-0.828	-0.193	0.357	-0.408	-0.408	-0.748	-0.316	-0.144	0.657	-0.509
July	0.032	0.858****	0.671*	0.200	-0.072	0.244	0.591	-0.111	-0.357	0.219	0.671*	0.205	-0.236	0.447	-0.345	0.075	-0.316
August	0.343	-	-	0.026	-0.310	-0.067	0.717*	-0.279	-0.229	0.750*	-	0.139	0.228	0.447	-0.669	-0.349	0.669
September	0.607	-	-	0.866*	0.802*	-0.487	0.929***	-0.828	-0.056	0.786*	-0.612	-0.179	-0.579	0.000	-0.786*	0.168	0.741
October	0.212	0.696*	0.696*	-0.274	0.671	0.221	0.233	0.300	0.675	-0.033	0.730*	0.448	0.091	-0.775	0.200	0.621	-0.445
November	-0.288	0.522	-	-0.633	-0.096	-0.343	-0.133	-0.873**	-0.940****	-0.267	0.406	0.390	-0.621	-0.707	0.142	-0.632	-0.633
December	-0.095	-	-	0.056	0.289	0.036	0.000	-0.828	-0.073	-0.500	-	0.408	0.259	-0.775	-0.321	0.556	-0.148
Pos	5	8	5	9	6	4	7	2	1	4	7	9	4	4	4	9	3
Neg	7	0	0	3	6	8	5	10	11	8	2	3	8	8	8	3	9
Trend	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	neg trend	no trend	pos trend	pos trend	no trend	no trend	no trend	pos trend	neg trend

Torrent River- NF02YC0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.483	0.346	-0.411	-	-0.092	-0.109	-0.484	-0.321	-0.445	-0.557	-0.455	-	-0.017	-0.236	-0.384	-0.232	-0.357	-	-0.612
February				-														-	
March	-0.383	0.349	-0.681*	-	0.030	-0.030	-0.243	-0.158	0.335	-0.127	0.018	-	0.563	-0.128	-0.055	0.049	0.000	-	-0.655
April				-														-	
May	-0.667	-0.371	-0.491	-	0.366	-0.607	-0.883*	-0.577	0.704	-0.539	-0.405	-	-0.087	-0.807*	-0.024	0.503	-0.975	-	-0.655
June	-0.690	0.638	-0.371	-	0.627	0.357	-0.667	0.144	0.357	-0.595	-0.524	-	0.643	0.072	0.430	0.739	0.086	-	-0.866
July				-														-	
August	-0.406	0.431	-0.624	-	0.175	0.067	-0.653	-0.178	-0.536	-0.951****	-0.365	-	0.548	-0.436	0.403	0.365	-0.148	-	-0.612
September				-														-	
October				-														-	
November	-0.464	0.429	0.126	-	0.649	-0.543	-0.754	-0.657	0.200	-1.000	-0.928*		0.700	0.541	0.177	0.631	0.800	-	-0.775
December				-														-	
Pos	0	5	1		5	2	0	1	4	0	1		4	2	3	5	3		0
Neg	6	1	5		1	4	6	5	2	6	5		2	4	3	1	3		6
Trend	neg trend	no trend	neg trend		no trend	no trend	neg trend	no trend	no trend	neg trend	neg trend		no trend	no trend	no trend	no trend	no trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Portland Creek- NF02YE0004

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.573	0.019	0.265	-0.683	-0.173	-0.023	-0.693*	-0.319	-0.462	-0.655	-0.418	0.260	-0.005	0.083	-0.087	-0.564	0.127	0.289
February	-0.467	0.051	0.817**	-0.536	0.183	0.333	-0.886***	0.243	-0.361	-0.583	-0.567	0.481	0.150	0.202	0.250	0.240	0.227	0.169
March	-0.697*	0.449	0.806***	-0.539	0.515	0.030	-0.842****	-0.212	-0.422	-0.517	-0.584	0.503	0.188	0.603	0.383	0.216	0.370	-0.655
April	-0.292	0.614	0.455	0.561	0.224	0.588	-0.363	0.111	-0.239	-0.736*	-0.248	0.334	-0.043	0.536	0.736*	-0.678	0.224	0.158
May	-0.238	0.851**	0.252	0.927**	0.500	0.071	-0.929****	0.095	-0.855**	-0.833**	-0.934****	0.410	-0.333	0.527	0.500	-0.571	0.036	-0.354
June	-0.107	0.505	0.179	0.144	-0.214	0.786*	-0.929***	0.643	-0.567	-0.901**	-0.964****	0.564	0.450	0.775	0.786*	-0.286	0.321	-0.258
July	-0.500	0.472	0.750	0.685	0.286	0.571	-1.000****	0.252	0.018	-0.234	-0.750	0.148	-0.335	0.889*	0.857*	0.613	0.357	-
August	-0.552	0.618	0.617	-0.504	-0.042	-0.167	-0.85***	-0.301	-0.511	-0.617	-0.567	0.600	-0.100	0.728*	0.786*	-0.220	0.467	-0.289
September	-0.929****	0.537	0.524	-0.524	0.143	-0.262	-0.976****	-0.482	-0.655	-0.690	-0.619	0.071	-0.048	-0.135	0.000	-0.476	0.180	-
October	-0.700*	0.842***	0.550	-0.176	0.467	-0.301	-0.767*	-0.437	-0.403	-0.667	-0.650	0.350	-0.360	0.887****	0.667	-0.643	0.500	0.000
November	-0.433	0.832**	0.333	-0.354	0.650	-0.251	-0.867****	-0.367	-0.675	-0.767*	-0.717*	0.243	-0.167	0.610	0.719	-0.476	0.167	-0.671
December	-0.357	0.899*	0.037	0.090	0.429	0.321	-0.857*	0.162	-0.873*	-0.964****	-0.857*	0.595	0.286	0.889*	0.857*	-0.486	0.721	-
Pos	0	12	12	5	9	7	0	6	1	0	0	12	4	11	11	3	12	4
Neg	12	0	0	7	3	5	12	6	11	12	12	0	8	1	1	9	0	5
Trend	neg trend	pos trend	pos trend	no trend	pos trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend	pos trend	pos trend	neg trend	pos trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.737**	0.671*	0.581	0.359	0.331	-0.703*	0.582	-0.239	-0.505	0.745**	0.359	0.470	-0.292	-0.775	-0.566	0.000	-0.311
February	-0.349	0.725*	0.725*	0.822**	0.667	-0.587	0.571	-0.219	-0.010	0.683	0.730*	0.783**	0.390	-0.447	-0.502	0.104	-0.261
March	-0.413	-	-	0.497	0.087	-0.265	0.328	0.845**	0.025	0.201	0.261	0.290	-0.365	0.866	-0.742*	0.000	-0.440
April	-0.085	0.522	0.522	0.177	0.787**	0.092	0.164	-0.548	0.445	-0.055	0.640	0.795***	0.203	-0.258	0.503	0.617	0.244
May	-0.783*	-	0.252	-0.056	-0.265	-0.376	0.119	-0.866*	-0.166	0.405	0.282	0.247	-0.206	-0.949	-0.277	-0.183	-0.759*
June	-0.252	-	-	0.193	-0.158	-0.327	0.429	0.169	0.118	0.536	0.474	-	-0.223	-0.258	-0.126	0.056	-0.148
July	-0.679	-	0.408	0.316	-0.612	-0.111	0.536	0.393	-0.267	-0.214	-	-0.267	-0.037	-0.738	-0.337	-0.189	-0.054
August	-0.602	-	-	0.412	-0.483	-0.060	0.524	-0.866*	-0.327	0.611	0.620	0.000	-0.783**	0.775	-0.599	-0.365	0.551
September	-0.655	-	-	0.873**	-0.577	0.196	0.238	-0.866*	-0.591	0.381	0.674	0.056	-0.394	0.000	-0.731	-0.204	0.683
October	-0.226	-	0.137	0.041	-0.504	0.156	0.571	-0.866*	0.390	0.524	0.247	-0.082	-0.012	-0.949	-0.157	-0.012	0.470
November	-0.770*	0.000	-	-0.222	-0.247	-0.482	0.262	-0.866*	0.350	-0.286	-	0.247	-0.753*	-0.949	-0.928****	-0.344	-0.711
December	-0.291	-	-	0.810*	0.612	-0.536	0.500	-0.775	0.318	0.607	0.791*	-	-	0.000	-0.334	-0.842*	-0.270
Pos	0		6	10	5	3	12	3	6	9	10	8	2	4	1	5	4
Neg	12		0	2	7	9	0	9	6	3	0	2	9	8	11	7	8
Trend	neg trend		pos trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	pos trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend

Western Brook- NF02YE0005

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.645*	0.243	0.593	-0.683	-0.132	-0.539	-0.850****	-0.527	-0.182	-0.527	-0.428	0.610	0.169	0.205	-0.073	0.515	0.323	0.386
February	-0.433	-0.210	0.433	-0.600	-0.117	-0.452	-0.107	0.000	-0.200	0.167	-0.433	-0.227	-0.435	0.126	0.117	-0.381	-0.792**	0.493
March	-0.697*	-0.148	0.758**	-0.571	0.394	-0.300	-0.633	-0.412	-0.398	-0.274	-0.721*	-0.091	-0.316	0.262	-0.267	-0.024	0.451	0.088
April	0.548	0.300	0.429	0.667	0.262	0.627	0.270	0.503	0.168	-0.357	-0.228	-0.073	-0.036	0.036	0.607	0.071	0.381	0.527
May	-0.383	0.540	0.667	0.321	-0.238	-0.349	-0.357	-0.400	-0.125	-0.071	-0.503	0.732	-0.310	0.537	0.357	0.342	0.096	-0.866
June	-0.071	0.632	0.500	0.396	0.000	-0.109	-0.929***	-0.497	-0.364	-0.500	-0.929***	0.847*	0.396	0.618	0.360	0.107	0.321	-0.258
July	0.204	0.655	0.898***	0.893**	0.156	0.270	-0.107	-0.225	0.073	-0.750	-0.714	0.537	-0.455	0.036	0.714	0.790*	0.539	0.949
August	-0.117	0.533	0.669	-0.301	-0.050	0.142	-0.633	0.143	-0.532	0.184	-0.183	0.587	-0.247	0.770*	0.607	0.327	0.250	0.051
September	-0.351	0.530	0.435	-0.571	0.477	0.095	-0.643	0.331	-0.528	-0.084	-0.667	0.201	0.151	-0.395	0.119	-0.235	-0.075	0.926*
October	0.728*	0.547	0.783**	0.293	0.500	0.633	-0.617	0.604	-0.593	-0.200	-0.217	0.368	-0.343	0.783**	0.048	0.204	0.032	0.791
November	-0.400	0.585	0.301	-0.319	0.400	-0.300	-0.800**	-0.400	-0.184	-0.517	-0.583	0.487	0.075	0.767*	0.214	0.000	0.200	0.103
December	-0.190	0.536	-0.071	-0.862**	0.733*	-0.042	-0.887****	-0.153	-0.110	-0.279	-0.433	0.755*	0.293	0.719	0.738*	0.333	0.500	0.632
Pos	3	10	11	7	8	5	1	5	2	2	0	9	5	11	10	9	10	10
Neg	9	2	1	5	4	7	11	7	10	10	12	3	7	1	2	3	2	2
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend	pos trend	pos trend	pos trend	pos trend	pos trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.864****	0.671*	0.671*	0.581	0.598	-0.507	0.507	-0.274	-0.530	0.159	0.598	0.108	-0.137	-0.775	-0.787***	0.021	-0.262
February	-0.7*	0.725*	0.639	0.548	0.186	-0.492	-0.583	-0.158	-0.633	-0.700*	0.639	0.725*	-0.259	-0.400	-0.544	-0.018	-0.350
March	-0.503	0.303	0.435	0.711*	0.451	0.043	-0.370	-0.436	-0.472	-0.418	0.494	0.480	-0.084	0.500	-0.491	0.163	-0.383
April	0.374	0.577	0.577	0.000	0.729	-0.627	0.476	-0.474	-0.295	0.838**	0.171	0.732	0.370	0.866	0.132	-0.098	0.252
May	-0.602	-	-	0.630	-0.082	-0.717	0.143	-0.866*	-0.100	-0.180	0.630	0.000	0.027	-0.949	-0.590	0.247	-0.563
June	0.109	-	-	0.134	-0.487	-0.685	0.000	-0.393	0.000	0.090	0.474	-0.223	-0.512	0.211	-0.168	-0.267	-0.223
July	-0.230	0.577	0.592	0.630	0.109	-0.647	0.786*	-0.158	0.639	0.524	0.218	-0.123	0.183	-0.738	0.012	0.469	0.244
August	0.430	-	-	-0.260	0.040	-0.281	0.700*	-0.866*	0.222	0.717*	-0.627	-0.168	0.358	-	0.294	-0.474	0.405
September	0.317	0.548	0.548	-0.091	-0.202	0.227	-0.017	-0.507	0.059	-0.333	0.414	-0.224	0.139	0.775	-0.243	-0.134	-0.136
October	0.686	-	-	0.504	0.136	0.060	0.667	-0.279	0.245	0.762*	0.247	-0.261	-0.577	-0.775	0.683	-0.098	0.061
November	-0.345	-	-	-0.078	-0.254	-0.619	-0.071	-0.866*	-0.077	0.000	-	0.086	0.069	-0.316	-0.262	-0.077	-0.386
December	-0.385	-	-	0.411	0.518	-0.402	0.317	-0.060	-0.248	-0.085	0.311	0.548	-0.090	0.775	-0.555	0.708*	-0.388
Pos	5	6	6	9	8	3	8	0	5	7	10	7	7	5	4	5	4
Neg	7	0	0	3	4	9	4	12	7	5	1	5	5	6	8	7	8
Trend	no trend	pos trend	pos trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend

Lomond River- NF02YH0018

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.196	0.106	0.371	-0.604	-0.082	-0.406	-0.433	0.018	-0.496	-0.645*	-0.109	0.499	0.009	0.196	0.310	0.036	-0.251	0.418
February	-0.151	-0.053	0.427	-0.455	-0.182	-0.073	-0.433	0.140	0.069	0.152	0.255	0.368	-0.387	0.354	0.018	0.565	-0.420	-0.267
March	-0.309	0.425	0.767**	-0.506	-0.663*	0.393	-0.745*	0.333	-0.094	-0.012	-0.406	0.535	-0.182	-0.092	-0.200	0.132	0.079	-0.309
April	0.415	-0.111	0.024	0.181	-0.140	0.418	-0.150	0.673*	-0.376	-0.467	-0.139	-0.018	-0.430	0.796***	0.017	0.667	-0.201	0.120
May	0.119	0.702	0.476	0.857*	-0.333	-0.143	-0.500	0.214	-0.454	-0.048	-0.167	0.554	-0.431	0.928****	0.738*	0.750	-0.238	-0.289
June	-0.450	0.433	0.577	0.286	-0.393	-0.607	-0.786*	-0.342	-0.433	-0.429	-0.179	0.414	0.143	0.685	0.679	0.018	0.607	0.316
July	-0.524	0.764	0.707	0.523	-0.180	-0.893**	-0.324	-0.857*	0.162	-0.429	-0.821*	0.347	0.000	0.519	0.810*	0.156	0.889***	0.707
August	-0.698	0.742*	0.700*	-0.033	-0.600	-0.617	-0.862***	-0.600	-0.860***	-0.300	-0.717*	0.550	-0.675	0.420	0.786*	-0.024	0.159	-0.158
September	-0.427	0.541	0.567	-0.144	0.367	-0.551	-0.929****	-0.286	-0.491	-0.452	-0.643	0.410	-0.500	-0.240	0.190	0.067	0.686	0.169
October	0.024	0.716*	0.433	-0.767*	0.405	-0.271	-0.767*	0.251	-0.754*	-0.100	-0.300	0.317	-0.661	0.866***	0.262	0.048	-0.136	-0.316
November	-0.418	0.639	0.400	-0.552	-0.033	-0.051	-0.753*	-0.033	-0.506	-0.400	-0.733*	0.322	0.075	0.921****	0.262	0.071	-0.067	-0.707
December	-0.146	0.544	0.238	-0.491	-0.603	0.042	-0.778*	0.167	-0.553	-0.519	-0.533	0.347	0.250	0.503	-0.143	0.190	0.419	-0.224
Pos	3	10	12	4	2	3	0	7	2	1	1	11	5	10	10	11	6	5
Neg	9	2	0	8	10	9	12	5	10	11	11	1	7	2	2	1	6	7
Trend	neg trend	pos trend	pos trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.673	0.671*	0.671*	0.115	0.498	-0.530	-0.082	-0.274	-0.645*	0.118	0.255	0.376	-0.042	-0.775	-0.269	0.288	-0.485
February	-0.346	0.671*	0.671*	0.231	0.298	-0.569	-0.318	0.060	-0.005	-0.385	0.195	0.671*	0.371	-0.949	-0.109	0.422	0.042
March	0.018	0.522	0.522	0.142	-0.135	-0.267	-0.333	-0.436	-0.268	-0.350	0.824**	0.609	-0.337	-	-0.224	-0.082	-0.461
April	0.170	0.522	0.522	-0.304	0.208	-0.228	-0.176	-0.621	0.769**	-0.201	0.853****	0.522	0.315	0.775	0.444	0.640	0.050
May	-0.542	-	0.247	0.247	-0.094	-0.512	0.190	-0.866*	-0.038	0.180	-0.047	0.041	-0.247	-0.949	-0.310	0.013	-0.566
June	-0.613	-	-	-0.474	-0.158	-0.613	0.750	0.169	0.120	0.847*	0.208	-0.612	-0.612	0.447	-0.393	0.139	0.281
July	-0.929****	0.577	0.592	0.507	-0.109	-0.600	0.690	0.131	-0.466	0.048	-0.472	-0.027	0.109	-0.258	-0.762*	0.507	0.268
August	-0.795**	-	-	-0.091	-0.548	-0.094	0.433	-0.279	-0.454	-0.159	-0.558	-0.091	-0.762*	0.775	-0.667	-0.096	-0.420
September	-0.151	0.548	0.548	-0.075	0.548	-0.283	0.717*	-0.507	0.449	0.345	0.913****	0.000	0.251	0.775	-0.467	-0.257	0.208
October	-0.672	-	-	-0.727*	-0.414	-0.318	-0.333	-0.866*	0.332	0.100	0.374	-0.023	-0.388	-0.775	-0.433	-0.183	-0.542
November	-0.763*	-	-	-0.536	-0.412	-0.833**	0.000	-0.866*	-0.856**	0.293	-0.274	-0.540	-0.733	-0.775	-0.262	-0.749*	-0.655
December	-0.359	-	-	-0.267	0.204	-0.414	0.571	-	0.319	0.571	0.168	-0.204	-	0.774	-0.464	0.791*	-0.477
Pos	2	6	6	5	5	0	7	3	5	8	8	6	4	5	1	7	5
Neg	10	0	0	7	7	12	5	8	7	4	4	6	7	6	11	5	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	no trend	no trend	no trend	neg trend	no trend	no trend

Main River- NF02YG0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.518	0.426	0.182	-0.105	0.182	-0.115	-0.455	-0.285	-0.294	-0.351	-0.227	0.352	0.009	0.077	0.282	0.515	-0.174	0.418
February	0.183	-0.220	0.159	-0.406	-0.083	-0.083	-0.405	0.102	-0.253	-0.085	0.083	-0.471	0.067	-0.509	0.283	0.190	-0.126	0.000
March	-0.248	0.180	0.433	-0.029	-0.152	0.030	-0.539	-0.227	-0.456	-0.188	-0.188	0.037	-0.109	-0.165	0.241	0.400	-0.115	-0.655
April	-0.318	-0.094	0.473	-0.374	0.173	0.100	-0.515	-0.337	-0.462	-0.791***	-0.436	-0.609	-0.551	-0.165	0.139	-0.297	-0.005	0.234
May	-0.452	0.447	0.683	0.750	-0.192	-0.611	-0.714	-0.548	-0.671	-0.738*	-0.667	-0.527	-0.036	-0.655	0.500	-0.643	-0.108	-0.354
June	-0.541	0.318	0.288	0.234	-0.234	-0.393	-0.571	-0.429	-0.306	-0.571	-0.500	0.393	0.071	-0.612	-0.071	0.143	0.286	0.447
July	-0.643	0.468	0.464	0.522	-0.250	0.429	-0.786*	-0.382	-0.643	-0.829*	-0.643	0.536	0.179	-0.579	0.214	0.536	0.464	-
August	-0.817**	0.889****	0.753*	-0.176	-0.510	-0.400	-0.917****	-0.753*	-0.866***	-0.209	-0.833***	0.817**	0.102	-0.529	-0.036	-0.143	0.837***	0.000
September	-0.762*	0.430	0.690	-0.048	-0.071	-0.238	-0.952****	-0.708	-0.467	-0.286	-0.619	-0.048	-0.357	-0.312	-0.429	-0.357	0.143	-0.224
October	-0.667	0.270	0.667	0.546	0.517	0.033	-0.767*	-0.509	-0.322	-0.083	-0.433	-0.283	-0.433	0.595	0.024	-0.119	-0.059	-0.224
November	-0.600	0.319	0.201	0.034	0.250	0.343	-0.700*	-0.577	-0.376	-0.633	-0.717*	0.025	-0.192	0.761*	0.143	-0.286	-0.133	-0.671
December	-0.071	0.767	0.500	-0.541	0.619	0.571	-0.619	0.407	0.267	-0.167	-0.381	0.306	-0.619	0.259	0.607	-0.821*	-0.024	-
Pos	1	10	12	5	5	6	0	2	1	0	1	7	5	4	9	5	4	5
Neg	11	2	0	7	7	6	12	10	11	12	11	5	7	8	3	7	8	5
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.105	0.671*	0.581	0.612	-0.011	-0.401	0.205	-0.115	-0.240	0.556	0.567	0.161	0.074	-0.775	-0.196	-0.048	0.000
February	0.458	0.548	0.000	0.168	-0.420	0.000	-0.460	0.134	-0.703*	0.410	0.548	-0.285	-0.085	-0.949	-0.167	-0.183	-0.092
March	-0.055	-	-0.087	-0.076	-0.199	-0.431	-0.491	-0.866*	-0.151	0.115	-0.262	0.241	-0.571	-	-0.248	-0.555	-0.067
April	-0.223	0.671*	0.581	0.150	0.365	-0.593	-0.391	-0.220	0.184	0.091	0.354	0.421	0.438	0.447	-0.227	0.361	-0.241
May	-0.587	-	0.247	0.241	0.281	-0.627	0.571	-0.866*	-0.025	0.405	0.082	0.225	-0.026	-0.258	-0.667	0.708	-0.857**
June	-0.546	-	0.612	-0.120	0.094	-0.505	0.286	-0.707	-0.505	0.250	-	-0.359	-0.356	0.775	-0.214	0.243	-0.667
July	0.450	-	0.000	0.474	-0.218	-0.252	0.143	-0.169	0.239	0.523	0.000	-0.359	-0.382	-0.866	-0.054	0.218	0.321
August	0.537	-	-	0.186	-0.598	-0.293	0.650	-0.866*	-0.096	0.417	-0.440	0.309	-0.171	0.447	-0.678	0.184	0.555
September	-0.357	-	-0.655	0.049	-0.200	-0.850**	-0.262	-0.866*	-0.451	-0.262	-0.756*	-0.098	-0.655	-0.775	-0.762	-0.255	-0.168
October	-0.636	-	-	-0.316	0.409	0.361	-0.383	-0.279	0.592	-0.583	-0.548	-0.070	-0.414	-0.775	-0.567	0.525	-0.593
November	-0.050	-	-0.207	-0.485	-0.699	-0.071	0.262	-0.498	-0.200	0.048	0.577	-0.344	-0.565	-0.775	-0.429	-0.355	-0.595
December	-0.238	-	-	0.041	-0.061	-0.024	0.119	0.393	-0.248	-0.143	0.577	0.077	0.077	-	0.371	-0.091	-0.667
Pos	3		6	8	4	2	7	2	3	9	7	6	3	3	1	6	3
Neg	9		3	4	8	10	5	10	9	3	4	6	9	7	11	6	9
Trend	neg trend		no trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	neg trend

Upper Humber River- NF02YL0011
Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	-0.515	0.270	0.261	-	0.280	-0.564	-0.8*	-0.354	-0.430	-0.383	-0.042	0.139	-0.262	-0.422	-0.236	-0.567	0.811***	-0.655
March																		
April	-0.233	0.402	0.017	-	0.435	0.283	-0.433	0.100	-0.176	-0.812**	-0.600	-0.467	-0.828**	0.305	0.095	0.238	-0.594	-0.406
May																		
June	-0.107	0.072	-	-0.464	0.286	0.107	-0.536	0.107	0.148	-0.500	-0.429	0.179	-0.393	-0.234	0.357	0.450	-0.107	0.211
July																		
August	-0.867****	0.854***	0.706*	-0.695	-0.427	-0.767*	-0.917****	-0.711*	-0.802**	-0.833***	-0.883****	0.717*	0.184	0.516	0.500	0.571	0.817**	0.205
September																		
October	-0.083	0.341	0.583	0.328	0.301	0.134	-0.750*	0.159	-0.286	-0.117	-0.550	0.300	-0.571	-0.026	0.024	-0.335	-0.333	0.000
November																		
December	-	0.454	0.405	0.029	0.335	0.267	-0.583	0.317	0.373	-0.150	-0.133	0.405	-0.367	0.667	0.595	0.476	0.209	-0.527
Pos	0	6	5	2	5	4	0	4	2	0	0	5	1	3	5	4	3	3
Neg	5	0	0	2	1	2	6	2	4	6	6	1	5	3	1	2	3	3
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	no trend	no trend	neg trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	0.687*	0.696*	0.569	0.623	-0.279	-0.663	-0.103	0.096	-0.509	0.406	0.700	0.045	-0.478	-	-0.815***	-0.062	0.116
March																	
April	0.276	0.548	0.519	-0.402	0.608	0.136	-0.050	-0.507	-0.504	-0.100	0.725*	0.009	0.034	0.400	0.217	-0.275	-0.458
May																	
June	0.214	-	-	-0.359	-0.255	-0.631	-0.071	-0.828	-0.060	-0.286	-	-0.906**	-0.593	-0.105	0.071	-0.231	-0.837*
July																	
August	-0.770*	-	-	-0.518	-0.293	-0.715*	0.867****	-0.866*	-0.850**	0.367	-0.311	-0.303	0.238	0.949	-0.800**	0.324	0.496
September																	
October	0.183	-	-	0.287	0.401	0.366	-0.095	-0.866*	0.358	-0.167	-	-0.247	-0.712	-0.316	0.095	0.051	0.156
November																	
December	0.400	-	-	-0.107	0.686	0.243	0.400	-0.866*	0.621	-0.100	-	0.621	0.238	-0.775	0.167	0.703*	0.251
Pos	5	2	2	2	3	3	2	1	2	2	2	3	3	2	4	3	4
Neg	1	0	0	4	3	3	4	5	4	4	1	3	3	3	2	3	2
Trend	no trend			no trend	no trend	no trend	no trend	neg trend	no trend	no trend		no trend	no trend	no trend	no trend	no trend	no trend

Lower Humber River- NF02YL0012
Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	-0.300	0.111	0.373	-0.558	-	0.046	-0.721*	0.005	0.025	0.298	0.127	0.447	-0.164	-0.049	0.176	0.309	0.218	-0.144
March																		
April	0.322	0.250	0.559	-0.639	0.176	0.491	-0.152	0.324	-0.472	-0.468	-0.450	0.195	0.018	0.073	-	0.285	0.188	0.077
May																		
June	-0.286	0.139	0.321	-0.429	-0.143	0.214	-0.775	0.054	-0.694	-0.429	-0.857*	-0.071	-0.357	0.643	0.643	-0.286	0.286	-0.258
July																		
August	0.068	0.507	0.817**	-0.503	0.285	0.418	-0.736*	0.328	-0.373	0.117	-0.318	0.617	-0.417	0.471	0.214	-0.262	0.800**	-0.354
September																		
October	-0.017	0.452	0.767*	-0.335	0.383	-	-0.368	0.316	-0.254	-0.200	-0.283	0.202	-0.467	0.536	0.192	0.216	0.100	-0.577
November																		
December	0.429	0.082	0.429	-0.857*	0.711*	0.126	-0.883****	-0.261	-0.638	-0.500	-0.251	0.108	0.050	-0.747*	-	0.323	-0.377	-0.354
Pos	3	6	6	0	4	5	0	5	1	2	1	5	2	4	4	4	5	1
Neg	3	0	0	6	1	0	6	1	5	4	5	1	4	2	0	2	1	5
Trend	no trend	pos trend	pos trend	neg trend	pos trend	pos trend	neg trend	pos trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	-0.336	0.418	0.359	0.538	-0.411	-0.297	0.364	-0.137	-0.366	0.418	0.387	0.084	-0.058	-0.866	-0.432	-0.268	-0.155
March																	
April	-0.406	0.719*	0.722*	-0.090	0.864****	-0.024	0.479	-0.456	0.058	0.219	0.870****	0.882****	0.719*	0.447	0.294	0.864****	0.239
May																	
June	-0.464	-	-	0.080	0.094	-0.487	0.429	-0.393	-0.150	0.571	0.433	-0.598	-0.512	0.447	-	-0.134	0.036
July																	
August	-0.059	-0.518	-0.548	-0.866***	-0.633	-0.586	0.900****	-0.945***	-0.024	0.267	-0.438	-0.286	-0.511	0.447	0.653	-0.330	-0.131
September																	
October	-0.259	-	-	-0.252	0.062	0.546	0.048	-0.866*	0.501	0.120	0.630	0.192	-0.218	-0.949	0.168	0.401	-0.344
November																	
December	-0.570	-	-	0.411	-0.257	0.122	-0.142	0.866*	0.347	0.100	-0.725*	-0.017	-0.525	-0.775	-0.217	0.138	-0.264
Pos	0	2	2	3	3	2	5	1	3	6	4	3	1	3	3	3	2
Neg	6	1	1	3	3	4	1	5	3	0	2	3	5	3	2	3	4
Trend	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

Corner Brook- NF02YL0013

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.764***	0.110	0.247	-0.498	0.114	0.727**	0.467	0.755***	-0.006	0.237	0.664*	0.653*	0.173	-0.227	-0.073	0.343	0.145	-0.179
February	0.224	0.106	0.366	-0.386	0.207	0.164	0.176	0.155	-0.037	0.152	0.224	0.215	0.333	-0.036	0.145	0.012	0.237	0.158
March	0.150	0.211	0.350	-0.893**	0.717*	0.583	-0.167	0.633	-0.132	0.017	-0.233	0.538	-0.417	0.042	0.286	0.455	0.383	-0.169
April	-0.370	0.318	0.030	0.111	-0.297	-0.401	-0.067	-0.418	-0.104	-0.237	-0.115	0.646	-0.527	-0.061	0.233	-0.059	0.176	0.289
May	0.429	0.902***	0.539	-0.109	-0.333	0.595	-0.216	0.571	-0.181	-0.714	-0.347	0.145	-0.238	0.464	0.156	0.255	0.429	-
June	-0.143	0.433	0.000	0.091	-0.214	-0.143	-0.036	-0.143	0.252	-0.500	-0.750	0.613	-0.107	0.714	0.500	-0.072	0.342	-0.258
July	0.286	0.775	0.536	-0.234	0.577	0.429	0.036	0.414	0.378	0.143	0.357	0.364	0.055	0.185	0.643	-0.018	0.739	-
August	-0.183	0.328	0.683	0.134	-0.633	-0.283	-0.368	-0.192	-0.226	-0.075	-0.519	0.126	-0.261	0.611	0.179	-0.275	0.812**	-0.112
September	-0.667	0.160	0.357	-0.327	0.167	-0.714	-0.738*	-0.690	-0.467	-0.690	-0.810*	0.024	0.000	0.439	-0.214	-0.635	0.414	-0.369
October	0.100	0.276	0.184	0.133	0.533	0.100	-0.267	0.100	-0.109	0.300	-0.050	0.185	-0.267	0.291	0.192	0.286	0.238	-0.316
November	0.583	0.062	0.567	0.367	0.450	0.833***	0.467	0.833***	0.450	0.767*	0.583	-0.017	-0.433	0.628	0.563	0.843**	-0.333	-0.447
December	0.429	0.667	0.657	0.143	0.000	0.095	-0.357	-0.143	0.540	0.262	-0.012	0.793*	0.241	0.631	0.571	0.236	0.241	-0.258
Pos	8	12	12	6	8	8	4	7	4	7	4	11	5	9	10	7	11	2
Neg	4	0	0	6	4	4	8	5	8	5	8	1	7	3	2	5	1	8
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	pos trend	pos trend	no trend	pos trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.721**	0.671*	0.710*	0.645*	0.618*	-0.653*	0.391	0.069	-0.240	0.445	0.581	0.265	-0.214	-0.447	0.555	0.158	-0.087
February	0.651*	0.500	0.522	0.229	0.309	-0.276	0.273	-0.091	-0.029	0.100	0.478	0.392	-0.070	0.258	0.100	0.315	0.349
March	0.450	0.725*	0.725*	0.709*	0.709*	0.025	0.417	0.000	0.158	0.235	0.448	0.449	0.322	-	0.418	0.287	0.250
April	-0.264	0.522	0.522	0.135	0.494	0.062	0.236	-0.873**	0.585	-0.547	0.576	0.213	0.427	0.447	-0.389	0.020	-0.636
May	-0.244	-	-	0.489	0.350	-0.488	0.548	-0.866*	0.250	0.762*	0.247	0.254	-0.342	-0.632	0.072	-0.140	-0.395
June	0.072	-	-0.612	-0.239	-0.355	-0.334	0.071	-0.828	-0.289	0.360	-0.612	-0.612	-0.134	-0.258	-0.143	-0.337	0.400
July	-0.559	-	-	-	-0.612	-0.296	0.464	0.169	0.000	0.144	0.612	-0.802*	-0.612	-0.258	0.286	0.661	0.600
August	-0.185	-	-0.411	0.479	-0.274	-0.655	0.033	-0.866*	-0.114	-0.067	-0.329	0.249	-0.434	-	-0.183	-0.641	0.170
September	-0.643	-	-0.408	-0.808*	-0.474	-0.414	0.321	-0.878	-0.598	-0.252	-	-0.505	-0.453	-	-0.643	-0.667	0.519
October	-0.333	-0.252	-0.296	-0.856**	-0.399	0.146	-0.048	-0.169	0.221	-0.310	0.436	-0.356	-0.875**	-	-0.214	-0.086	-0.687
November	0.343	-0.520	-0.091	-0.717	-0.444	-0.275	-0.167	-0.110	-0.122	-0.180	0.091	-0.444	-0.728	-	0.802*	-0.250	-0.731
December	-0.160	-	-	0.109	0.187	-0.554	0.262	-0.878	0.198	-0.275	-0.412	0.756*	-0.082	-	0.132	0.436	-0.458
Pos	5	4	4	7	6	3	10	3	6	6	8	7	2	2	7	6	6
Neg	7	2	5	4	6	9	2	9	6	6	3	5	10	4	5	6	6
Trend	no trend	no trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

Pinchgut Brook- NF02YJ0004

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.202	0.105	-0.073	-0.728*	-0.236	-0.261	-0.617	-0.152	-0.288	0.304	0.127	0.171	-0.122	0.480	0.267	0.678	-0.518	0.000
February	-0.617	0.537	0.251	-0.360	-0.251	-0.159	-0.854***	-0.600	-0.061	-0.600	-0.783**	0.593	-0.227	0.008	0.267	0.903***	0.627	-0.354
March	-0.583	0.596	0.717*	-0.288	-0.770*	-0.483	-0.167	-0.310	-0.185	0.117	-0.250	0.259	-0.828**	0.400	0.571	0.479	-0.159	-0.894
April	0.273	-0.115	-0.014	-0.238	-0.164	0.424	-0.564	0.373	-0.393	-0.237	-0.155	-0.578	-0.609	0.018	-0.794***	0.377	-0.273	0.436
May	-0.667	0.540	0.524	-0.270	-0.802*	-0.587	-0.810	-0.826*	-0.747*	-0.476	-0.619	-0.119	-0.071	0.012	0.286	0.036	0.024	-0.354
June	-0.107	-0.144	0.655	-0.198	-0.714	-0.107	-0.857*	0.000	-0.378	-0.946***	-0.821*	0.198	-0.429	0.055	-0.613	-0.086	0.000	-0.258
July	-0.607	0.418	0.357	-0.618	-0.286	-0.200	-0.679	-0.571	-0.071	-0.991****	-1.000	0.143	-0.108	-0.148	0.393	-0.036	0.286	-
August	-0.400	0.365	0.683	0.050	-0.583	-0.583	-0.787*	-0.667	-0.515	-0.500	-0.817*	0.695	0.167	-0.034	0.286	0.144	0.209	-0.580
September	0.095	0.517	0.524	-0.060	-0.263	-0.024	-0.905****	0.405	-0.700	-0.119	-0.667	0.060	-0.738*	-0.060	-0.357	-0.168	-0.262	0.289
October	-0.059	0.783**	0.728*	0.218	0.183	-0.118	-0.683	-0.159	-0.180	-0.345	-0.717*	0.133	0.136	0.924****	0.107	0.214	0.287	-0.775
November	-0.672	0.470	0.433	0.393	0.267	-0.084	-0.933****	0.183	-0.485	-0.639	-0.833***	0.467	-0.167	0.538	-0.190	0.216	-0.546	-0.866
December	-0.107	0.668	0.821*	-0.519	-0.143	0.204	-0.286	0.405	-0.109	-0.071	-0.667	0.185	0.310	0.721	0.571	0.536	-0.205	-0.258
Pos	2	10	10	3	2	2	0	5	0	2	1	10	3	9	8	9	6	3
Neg	10	2	2	9	10	10	12	7	12	10	11	2	9	3	4	3	6	8
Trend	neg trend	pos trend	pos trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	neg trend	pos trend	no trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.258	0.522	0.522	0.640	0.522	-0.730*	0.309	-0.183	-0.380	0.541	0.640	0.203	-0.078	-0.775	-0.128	0.395	-0.384
February	-0.375	0.548	0.548	-0.536	-0.426	-0.289	0.333	-0.433	-0.560	0.200	0.301	-0.139	-0.426	-	-0.467	-0.266	-0.102
March	0.111	-	-	-0.124	-0.548	-0.489	0.400	-0.309	-0.256	0.167	0.866***	0.598	-0.548	-	-0.050	-0.075	-0.511
April	0.055	0.671*	0.671*	-0.067	0.688*	-0.247	0.064	-0.284	-0.127	-0.433	0.363	0.682*	0.037	0.632	0.236	0.129	-0.446
May	-0.709	-	-	-0.187	-0.247	-0.602	-0.071	-0.866*	-0.235	0.143	0.179	-0.041	-0.592	0.000	-0.643	0.082	-0.712
June	-0.523	-	-	0.000	-	-0.306	-0.214	-0.828	0.159	-0.464	0.791*	-0.453	-0.408	0.447	0.036	-0.223	-0.346
July	-0.577	-	-	0.000	-0.204	-0.090	0.036	-0.828	0.145	-0.536	0.791*	-0.408	-0.316	-0.258	0.607	-0.089	-0.281
August	-0.630	-	-	-0.505	-0.730*	0.077	0.317	-0.866*	-0.454	0.059	0.374	-0.730*	-0.411	0.447	0.100	-	-0.164
September	-0.439	-	-	0.124	-	-0.731	0.048	-0.866**	-0.218	-0.395	0.509	-0.111	-0.546	-0.258	-0.323	-0.396	0.396
October	-0.724	-	-	-0.730	-0.247	0.719	0.048	0.577	0.540	-0.683	0.386	0.062	0.126	-0.866	-0.476	0.247	0.265
November	-0.661	-	-	-0.764*	-0.203	-0.833*	-0.548	-0.866*	0.175	-0.619	0.428	-0.200	-0.632	-0.894	-0.810*	-0.412	-0.885***
December	-0.807*	-	-	0.109	-	-0.549	0.286	-0.878	0.279	0.048	0.873**	-0.056	-0.296	-0.866	-0.431	0.756*	-0.301
Pos	2	3	3	5	2	2	9	1	5	6	12	4	2	4	4	5	2
Neg	10	0	0	7	7	10	3	11	7	6	0	8	10	6	8	6	10
Trend	neg trend			no trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	neg trend

Harry's River-NF02YJ0006

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.182	0.557	0.327	-0.200	0.492	-0.032	0.282	-0.156	0.237	-0.638	-0.297	0.467	0.248	-0.239	0.070	0.319	-	-
February	-0.082	0.665*	-0.196	-	0.057	-0.132	-0.055	-0.005	0.006	-0.430	-0.309	0.755*	-0.219	-0.392	-0.319	0.829	-	-0.612
March	-0.800****	0.668*	-0.027	0.522	-0.346	-0.469	-0.754**	-0.564	0.115	-0.794***	-0.297	0.659	0.150	-0.492	-0.355	-0.029	-	-0.401
April	0.347	0.012	0.443	-	0.219	0.498	-0.353	0.227	0.140	-0.583	-0.933****	-0.721	0.115	-0.301	-0.358	0.700	-	-0.828
May	-0.438	0.227	0.509	0.084	0.024	-0.103	-0.394	-0.202	0.176	-0.373	-0.818***	-0.685	0.394	-0.573	-0.647	-0.700	-	0.000
June	-0.600	0.566	0.360	-	-0.429	-0.644	-0.608	-0.620	-0.356	-0.614	-0.761***	0.587	-0.055	-0.641*	-0.347	-0.543	-	-0.655
July	-0.381	0.270	0.147	-	-0.295	-0.275	-0.405	-0.168	-0.611	-0.755*	-0.452	-0.103	0.072	-0.512	-0.551	-0.400	-	-
August	-0.465	-0.393	0.166	-	-0.140	-0.067	-0.153	-0.145	-0.036	-0.455	-0.418	0.167	0.321	-0.259	-0.409	-0.086	-	0.131
September	-0.159	-0.502	0.276	-	0.810*	-0.084	-0.643	-0.732	0.355	-0.381	-0.833**	-0.234	0.071	0.366	-0.536	-0.900	-	-
October	-0.159	-0.502	0.276	-	0.810*	-0.084	-0.643	-0.732	0.355	-0.381	-0.833**	-0.234	0.071	0.366	-0.536	-0.900	-	-
November	0.233	-0.705*	-0.159	0.348	0.902****	0.492	-0.552	0.233	-0.151	-0.226	-0.567	-0.929***	-0.243	0.500	-0.671	0.400	-	-0.131
December	0.103	-0.322	0.387	-	0.609	0.152	-0.699*	-0.189	0.294	-0.395	-0.830****	-0.503	0.067	-0.049	-0.552	-0.300	-	-
Pos	3	7	9	3	8	3	1	2	8	0	0	5	9	3	1	4		2
Neg	9	5	3	1	4	9	11	10	4	12	12	7	3	9	11	8		5
Trend	neg trend	no trend	pos trend		no trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	no trend	pos trend	neg trend	neg trend	no trend		no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Lloyd's River- NF02YN0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.323	0.304	0.261	-0.452	0.018	-0.275	-0.595	-0.357	-0.778*	-0.382	-0.236	-0.143	-0.079	0.488	-0.152	0.179	-0.167	-0.316
February	-0.370	-0.541	0.503	-0.690	0.061	0.067	-0.350	-0.310	-0.783**	0.321	0.067	-0.697*	-0.224	0.402	-0.127	-0.133	-0.079	-
March	-0.238	-0.183	0.503	-0.358	-0.243	-0.167	-0.786*	-0.299	-0.659	-0.492	-0.648*	-0.424	-0.212	-0.061	0.167	0.036	0.048	-0.800
April	0.200	-0.053	0.617	-0.690	0.100	0.233	-0.250	0.183	-0.536	0.183	-0.433	-0.243	-0.176	0.832**	0.619	0.048	-0.142	-0.030
May	-0.250	0.000	0.575	-0.190	0.643	0.286	-0.750	-0.143	-0.259	-0.238	-0.405	-0.286	-0.310	0.395	0.262	-0.086	-0.357	0.775
June	-0.214	0.231	0.216	-0.429	-0.250	-0.143	-0.964****	-0.252	-0.509	-0.571	-0.714	0.252	-0.643	0.357	0.393	-0.214	0.214	-0.105
July	-0.321	-0.055	0.202	-0.036	0.183	-0.342	-0.685	-0.536	-0.396	0.033	0.233	0.286	-0.510	0.477	-0.167	-0.636	0.286	-0.500
August	-0.500	0.694	0.787**	-0.318	-0.433	-0.767*	-0.983****	-0.762*	-0.840***	-0.700*	-0.917****	0.533	0.160	0.678	0.643	-0.190	0.653	-0.224
September	-0.810*	0.522	0.500	-0.544	0.483	-0.524	-0.857**	-0.524	-0.766*	-0.533	-0.733*	0.275	0.183	-0.202	-0.310	-0.192	0.383	0.447
October	-0.183	0.743*	0.300	-0.233	0.050	-0.134	-0.800**	0.126	-0.477	-0.283	-0.350	0.417	0.017	0.546	0.405	0.000	0.317	0.707
November	-0.283	0.403	0.612	-0.263	0.297	0.083	-0.567	-0.234	-0.792**	-0.383	-0.467	0.167	-0.243	0.425	-0.358	0.024	-0.033	0.316
December	-0.214	0.234	0.086	-0.357	0.190	0.143	-0.452	0.095	-0.599	0.132	0.071	0.071	-0.180	0.750	0.607	0.714	-0.024	-0.800
Pos	1	8	12	0	9	5	0	3	0	4	3	7	3	10	7	6	6	4
Neg	11	4	0	12	3	7	12	9	12	8	9	5	9	2	5	6	6	7
Trend	neg trend	no trend	pos trend	neg trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.229	-	-	0.504	0.247	-0.434	0.262	-0.169	-0.206	0.786*	0.504	0.126	-0.577	-0.447	-0.357	0.089	-0.422
February	-0.201	0.418	0.693*	0.570	-0.293	-0.380	-0.134	-0.252	-0.089	0.212	0.453	0.405	0.383	-0.949	-0.413	0.562	-0.579
March	-0.554	-	-	0.056	-0.426	-0.352	-0.405	-0.878	-0.233	0.167	0.436	-0.454	-0.627	0.866	-0.238	-0.330	-0.180
April	-0.068	-	-	-	0.615	0.017	-0.594	-0.913****	0.474	-0.467	0.207	-	0.183	0.316	0.150	0.688	-0.529
May	-0.509	-	-	0.433	0.204	-0.487	0.000	-0.828	-0.144	0.393	-0.612	-0.045	-0.037	-	-0.036	0.401	-0.577
June	-0.073	-0.612	-	-0.418	-0.267	-0.704	0.250	-0.828	0.267	-0.286	-0.158	-0.612	-0.612	0.447	-0.321	0.236	-0.433
July	-0.371	-	-	-	-0.418	-0.811*	0.357	-0.828	-0.359	0.220	0.791*	-0.612	-0.040	0.000	-0.321	-0.150	0.709
August	0.306	-	-	0.311	-0.083	-0.271	0.711*	-0.878	0.076	0.617	-0.258	0.548	0.238	0.447	-0.850***	-0.316	0.443
September	0.060	-	-	0.169	0.770*	0.012	0.551	-0.866*	-0.426	0.238	0.507	0.056	-	-	-0.731	0.794*	0.247
October	0.160	-	-	0.000	-0.071	0.373	0.517	-0.632	0.507	0.467	-0.229	-0.040	-0.596	-	-0.034	0.218	0.610
November	-0.084	0.548	0.548	0.577	0.732	-0.310	0.036	0.134	0.115	-0.120	0.378	0.000	0.031	-0.775	0.108	0.077	-0.393
December	-0.209	-	-	0.218	0.225	-0.410	-0.048	0.655	0.332	0.119	0.394	0.394	0.225	-	-0.024	0.381	-0.443
Pos	3	3	2	9	6	3	8	2	6	9	8	6	5	5	2	9	4
Neg	9	0	0	1	6	9	4	10	6	3	4	5	6	3	10	3	8
Trend	no trend	-	-	pos trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend

Crabbe's River- NF02ZA0007

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.442	-0.055	-0.127	-0.415	0.224	-0.617	-0.643	-0.402	-0.619	-0.539	-0.333	-0.103	0.231	-0.714*	-0.333	-0.212	-0.055	0.347
February	-0.238	-0.296	0.357	-0.429	0.554	-0.204	-0.071	-0.214	-0.275	-0.310	-0.071	-0.826*	-0.071	-0.313	-0.214	0.333	0.119	-0.447
March	-0.214	-0.281	0.571	-0.371	0.452	0.071	-0.071	0.036	-0.071	0.000	0.119	-0.659	0.214	-0.146	0.214	-0.071	0.286	-0.894
April	-0.139	-0.579	0.285	-0.901**	0.382	-0.055	-0.550	-0.061	-0.533	-0.091	-0.067	-0.778**	-0.564	-0.596	-0.661	-0.127	-0.474	-0.350
May	-0.214	-0.193	0.429	-0.353	0.107	-0.179	-0.464	-0.523	-0.577	-0.714	-0.414	-0.685	-0.571	-0.571	-0.536	-0.536	-0.571	0.000
June	0.200	-0.265	-0.086	-0.371	0.314	0.200	0.314	0.371	0.200	0.200	0.371	-0.086	-0.600	0.377	-0.200	0.771	0.086	0.632
July	0.143	0.000	0.657	0.667	0.314	0.371	-0.029	0.371	0.086	0.543	-0.029	-0.600	-0.200	-0.395	-0.314	0.486	0.000	-
August	0.048	0.292	0.667	-0.850**	0.071	-0.071	0.048	-0.071	-0.120	0.048	0.071	0.024	-0.275	-0.096	-0.500	-0.714	0.167	-0.112
September	-0.190	0.434	0.571	-0.012	0.333	-0.262	-0.190	-0.190	-0.262	-0.168	-0.238	0.238	0.132	-0.132	0.036	0.095	0.238	-0.354
October	-0.214	-0.250	0.347	0.036	-0.024	-0.214	-0.262	-0.299	-0.262	-0.238	-0.262	-0.144	-0.263	-0.374	0.071	-0.190	-0.071	-0.577
November	-0.262	-0.482	0.119	0.310	0.548	-0.381	-0.405	-0.024	-0.619	-0.381	-0.095	-0.419	-0.381	0.217	-0.964****	-0.383	-0.667	-0.527
December	0.657	-0.463	-0.086	-0.667	0.857*	0.786*	0.714	0.857*	0.714	0.321	0.571	-0.377	-0.571	0.377	0.143	0.750	-0.393	0.258
Pos	4	3	9	3	11	4	3	4	3	5	4	2	3	3	4	5	6	4
Neg	8	9	3	9	1	8	9	8	9	7	8	10	9	9	8	7	6	7
Trend	no trend	neg trend	pos trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.527	0.696*	0.494	0.632	0.105	-0.524	0.091	-0.229	-0.545	0.359	0.569	0.521	0.363	-0.775	-0.442	0.150	0.067
February	0.168	-	-0.126	0.170	0.356	0.240	0.381	-0.794*	0.727	0.476	0.504	0.196	-0.409	0.258	-0.238	0.209	0.410
March	0.359	-	0.082	0.450	-0.096	-0.095	0.286	-0.054	0.506	0.667	-0.143	0.229	0.073	-	-0.071	0.431	0.143
April	-0.261	0.315	0.180	-0.344	-0.006	-0.529	-0.467	-0.367	0.080	-0.370	0.583	0.267	0.349	-0.105	-0.067	-0.200	-0.474
May	-0.505	-	-0.316	0.458	-0.430	-0.371	-0.536	-0.756	0.259	-0.250	-0.316	-0.346	-0.733	-0.775	-0.214	-0.218	-0.429
June	0.371	-	0.655	-0.029	0.525	-0.058	-0.029	0.169	-0.580	-0.029	0.621	0.778	0.093	-0.258	0.200	-0.207	-0.530
July	0.371	-	0.393	0.393	0.439	-0.338	-0.086	-0.030	0.247	-0.086	0.683	-0.207	0.683	-0.738	0.371	-0.359	0.759
August	-0.048	-	-	-	0.261	-0.577	-0.286	0.060	0.216	0.000	0.340	0.562	-0.218	0.211	0.071	0.014	-0.195
September	-0.071	-	0.082	0.443	0.756*	-0.417	0.381	-0.866	-0.217	0.619	0.154	0.098	-0.593	-0.258	-0.143	-0.055	0.120
October	-0.539	-	-	-0.170	-0.605	-0.241	-0.143	0.802*	-0.191	0.071	0.504	-0.717	-0.614	-0.775	-0.167	-0.250	-0.195
November	-0.548	-	-0.378	0.144	-0.896**	-0.393	-0.750	-0.279	0.120	0.357	0.474	-0.591	-0.493	-0.775	-0.357	-0.637	0.579
December	0.786*	-	-	-0.144	-0.538	-0.436	-0.613	0.169	0.852*	-0.393	0.474	-0.694	-0.709	-	0.786*	-0.694	-0.613
Pos	5		6	7	6	1	4	4	8	7	10	7	5	2	4	4	6
Neg	7		3	4	6	11	8	8	4	5	2	5	7	8	8	8	6
Trend	no trend		no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend

South Branch River- NF02ZA0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.467	-0.044	0.006	-0.405	-0.127	-0.745**	-0.417	-0.333	-0.510	-0.745**	-0.248	-0.255	-0.418	0.588	0.588	-0.550	0.304	0.000
February	-0.079	0.114	0.321	-0.262	0.043	-0.588	0.188	-0.964****	-0.763**	-0.345	0.139	-0.183	0.280	0.013	-0.285	-0.833***	0.146	-0.123
March	-0.633	0.162	0.567	-0.108	-0.310	-0.450	-0.600	-0.433	-0.393	-0.367	-0.350	0.142	-0.033	-0.250	-0.048	0.095	0.167	-0.527
April	-0.248	0.271	0.517	-0.144	-0.201	-0.164	-0.273	-0.176	-0.322	-0.285	-0.224	-0.578	-0.348	0.158	-0.250	-0.233	-0.127	-0.270
May	-0.190	-0.192	0.289	0.286	-0.048	-0.262	-0.310	-0.143	-0.192	-0.479	-0.167	-0.551	-0.452	0.036	0.143	-0.321	-0.024	-
June	-0.571	0.018	0.324	0.536	-0.071	-0.357	-0.500	-0.357	-0.523	-0.500	-0.571	-0.090	0.090	-0.162	-0.107	0.029	0.071	-0.258
July	-0.286	0.250	0.342	0.643	0.321	-0.286	-0.357	-0.357	-0.357	-0.286	-0.286	-0.090	-0.036	-0.643	-0.288	-0.107	0.250	-
August	-0.300	0.244	0.628	-0.259	-0.117	-0.483	-0.200	-0.450	-0.417	-0.200	-0.100	-0.033	0.133	-0.017	-0.429	-0.714	0.033	-0.158
September	-0.096	0.168	0.548	-0.071	0.167	-0.095	-0.429	-0.048	-0.286	0.000	0.000	0.095	0.119	0.136	0.036	0.214	0.167	-0.289
October	-0.183	0.069	0.800**	-0.356	-0.167	-0.250	-0.250	-0.300	-0.200	-0.183	0.050	0.234	-0.434	0.695	-0.018	0.024	-0.017	0.000
November	-0.067	-0.511	0.301	0.350	0.233	-0.350	-0.117	0.000	-0.244	-0.318	-0.117	-0.800**	-0.276	0.723*	-0.262	-0.071	-0.477	0.354
December	-0.214	0.192	0.455	-0.386	0.317	0.117	-0.067	0.134	-0.042	0.233	0.067	0.048	-0.367	0.095	0.238	0.333	-0.351	0.000
Pos	0	9	12	4	5	1	1	2	0	2	4	4	4	8	4	5	7	4
Neg	12	3	0	8	7	11	11	10	12	10	8	8	8	4	8	7	5	6
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.305	0.522	0.522	0.182	0.086	0.117	-0.042	-0.378	0.031	0.455	0.292	0.247	-0.068	-0.775	-0.456	0.041	0.067
February	0.195	0.522	0.522	0.035	0.000	-0.172	-0.176	-0.507	0.247	0.742*	0.494	0.019	-0.459	-0.447	-0.515	0.142	0.128
March	-0.117	-	0.087	0.091	0.050	-0.293	0.117	-0.599	-0.268	0.683	0.408	0.279	-0.656	-0.866	-0.300	-0.306	-0.300
April	0.188	0.522	0.142	-0.317	0.482	0.232	0.122	-0.697	-0.193	0.097	-0.243	0.526	0.487	0.632	-0.018	0.388	-0.207
May	-0.204	-	-0.218	0.327	-0.145	-0.072	0.429	-0.598	-0.430	0.286	-0.504	-0.241	-0.195	0.258	-0.143	-0.120	-0.429
June	-0.234	-	-	0.144	-0.459	-0.321	0.000	-0.655	-0.487	0.306	0.408	0.598	0.039	0.775	-0.357	-0.158	0.180
July	-0.357	-	0.000	-0.193	-0.159	-0.837*	0.250	0.655	-0.630	0.750	-0.299	0.281	0.020	-0.316	-0.324	-0.668	0.198
August	-0.345	-	-	0.186	-0.511	-0.712*	-0.067	-0.791*	0.062	0.700*	-0.319	-0.286	-0.566	0.447	-0.233	-0.563	0.017
September	-0.429	-	-0.378	0.096	0.158	0.204	0.167	0.134	-0.464	0.738*	-0.577	-0.217	-0.436	0.775	-0.143	-0.250	0.407
October	-0.500	-	-	0.000	0.499	0.400	0.033	0.030	-0.816**	0.317	0.518	0.498	0.378	-0.775	-0.250	0.224	-0.050
November	-0.335	-	-0.411	0.394	-0.741*	-0.711	-0.714	-0.866*	-0.520	0.527	-0.733	-0.764*	-0.851**	-0.775	0.084	-0.753*	0.037
December	0.133	-	-	-0.160	0.053	-0.264	-0.492	-0.866*	0.280	0.707	0.137	-0.806**	-0.436	0.000	0.233	-0.298	-0.293
Pos	3	3	5	9	7	4	7	3	4	12	6	7	4	6	2	4	7
Neg	9	0	3	3	5	8	5	9	8	0	6	5	8	6	10	8	5
Trend	neg trend		no trend	pos trend	no trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend

Grand Codroy River- NF02ZA0006

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level

** significant at 0.02 level

*** significant at 0.01 level

**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.436	0.507	0.155	0.036	0.301	-0.612	-0.733**	-0.693*	-0.632*	-0.355	-0.500	0.287	-0.159	-0.515	-0.418	-0.182	0.055	-0.231
February	-0.314	-0.221	0.553	-0.222	-0.018	-0.373	-0.669*	0.059	-0.183	-0.369	-0.809****	-0.220	0.383	-0.041	0.009	0.079	0.082	-0.100
March	-0.479	0.359	0.685*	0.076	-0.285	-0.564	-0.624	-0.564	-0.576	-0.588	-0.503	0.267	-0.042	-0.377	-0.317	-0.133	0.467	-0.655
April	-0.264	-0.314	0.369	-0.108	0.082	-0.145	-0.576	0.109	-0.492	-0.159	-0.564	-0.594	-0.164	-0.586	-0.127	0.358	0.155	-0.472
May	-0.429	-0.165	0.228	-0.036	-0.286	-0.595	-0.500	-0.048	-0.442	-0.048	-0.357	-0.590	-0.381	0.133	0.347	0.750	-0.143	-0.354
June	-0.500	0.097	0.503	0.000	-0.190	-0.500	-0.214	-0.143	-0.095	-0.333	-0.143	0.168	-0.381	0.253	0.036	0.393	0.095	0.000
July	-0.280	0.334	0.691	0.357	0.000	-0.198	-0.286	-0.250	-0.270	-0.107	-0.286	-0.270	0.036	-0.126	0.179	0.357	0.055	-0.258
August	-0.300	0.068	0.351	-0.420	-0.126	-0.300	-0.300	-0.267	-0.333	-0.217	-0.150	0.050	-0.117	-0.494	-0.393	-0.548	-0.067	-0.158
September	-0.143	0.275	0.738*	0.429	0.143	-0.262	-0.357	-0.071	-0.299	-0.143	-0.167	0.228	0.095	-0.036	0.179	0.286	0.310	0.112
October	-0.267	0.051	0.550	-0.090	0.100	-0.267	-0.333	-0.243	-0.310	-0.350	-0.583	0.083	-0.025	0.828**	-0.179	0.786*	0.350	-0.354
November	-0.586	-0.053	-0.017	0.217	0.433	-0.867****	-0.417	-0.233	-0.435	-0.817**	-0.133	-0.134	-0.359	0.276	-0.310	0.802*	-0.067	-0.359
December	-0.429	0.469	0.619	-0.143	0.217	0.067	-0.083	0.176	-0.117	0.100	0.000	0.228	-0.183	-0.252	-0.143	0.429	-0.200	0.000
Pos	0	8	11	6	7	1	0	3	0	1	1	7	3	4	5	9	8	3
Neg	12	4	1	6	5	11	12	9	12	11	11	5	9	8	7	3	4	9
Trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.455	0.522	0.516	0.387	-0.349	-0.795***	0.027	0.133	-0.746**	-0.309	0.402	0.085	-0.254	-0.258	-0.418	-0.274	-0.455
February	-0.173	0.671*	-0.153	-0.199	-0.370	-0.604	-0.036	-0.436	-0.139	-0.260	-0.060	-0.042	-0.439	-	-0.411	-0.385	-0.083
March	-0.564	-0.058	-0.435	0.255	-0.273	0.031	0.212	-0.326	-0.388	-0.152	0.496	0.604	-0.078	-	-0.564	0.104	-0.293
April	-0.227	0.371	0.330	-0.100	0.354	-0.228	-0.018	-0.190	0.277	-0.155	0.678*	0.476	0.363	-0.105	-0.173	0.363	0.110
May	-0.228	-	0.252	0.098	-0.289	-0.084	-0.357	-0.694	-0.528	-0.286	0.577	-0.024	-0.630	-	-0.595	-0.073	-0.524
June	-0.167	-	0.247	0.535	0.250	-0.265	0.048	-0.866*	0.000	-0.132	0.756*	0.843**	0.110	0.775	-0.500	0.872**	0.135
July	-0.214	-0.791*	-0.791*	-0.540	-0.020	-0.523	0.179	-0.278	0.296	-0.143	-0.204	-0.617	-0.926**	-0.258	-0.107	-0.089	-0.072
August	-0.300	0.274	0.274	-0.274	-0.914****	-0.117	0.017	0.401	0.140	-0.150	-0.385	-0.494	-0.402	0.632	-0.300	-0.578	0.247
September	-0.238	-0.577	-0.378	0.426	0.073	0.714	0.310	-0.116	-0.195	0.286	0.038	0.012	-0.464	0.316	-0.190	-0.012	0.347
October	-0.283	-0.311	-0.274	-0.168	0.321	0.690	0.200	0.019	0.254	0.017	0.053	0.496	-0.303	-0.949	-0.267	0.538	-0.133
November	-0.600	0.274	0.274	0.179	-0.682	-0.755*	-0.405	-0.019	0.153	-0.214	0.845**	0.192	-0.476	-0.632	-0.929****	-0.391	0.444
December	0.150	-	-0.137	-0.343	-0.219	-0.695	-0.167	0.433	0.231	-0.300	0.374	-0.079	-0.366	0.775	-0.109	-0.089	-0.244
Pos	1	5	6	6	4	3	7	4	7	2	9	7	2	4	0	4	5
Neg	11	4	6	6	8	9	5	8	5	10	3	5	10	5	12	8	7
Trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

Isle aux Mort River- NF02ZB0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.509	0.428	0.061	-	0.134	-0.279	-0.060	-0.367	-0.252	0.024	0.357	-	0.144	0.656	0.390	0.202	0.179	-	-
February				-														-	-
March	-0.595	0.193	-0.098	-	-0.854**	-0.395	-0.143	-0.491	-0.036	-0.714	-0.604	-	0.300	0.347	-0.342	-0.252	-0.400	-	-
April				-														-	-
May	-0.754**	0.569	-0.379	-	0.247	-0.700*	-0.605	-0.895****	-0.305	-0.756*	-0.833***	-	0.321	0.234	-0.472	-0.134	-0.812	-	-
June	-0.017	-0.170	-0.764*	-	-0.333	-0.034	0.226	-0.430	0.383	-0.017	0.075	-	-0.464	0.460	0.336	0.167	-0.429	-	-
July				-														-	-
August				-														-	-
September	-0.714	-0.036	-0.564	-	0.203	-0.616	-0.200	-0.829	0.316	-0.657	-0.943**	-	-0.300	-0.029	0.334	0.286	-0.800	-	-
October				-														-	-
November	-0.261	-0.084	-0.454	-	0.151	-0.024	-0.060	-0.299	0.711*	0.071	0.024	-	-0.500	0.430	0.024	0.381	-0.116	-	-
December				-														-	-
Pos	0	3	1		4	0	1	0	3	2	3		3	5	4	4	1		
Neg	6	3	5		2	6	5	6	3	4	3		3	1	2	2	5		
Trend	neg trend	no trend	neg trend		no trend	neg trend	no trend	neg trend	no trend	no trend	no trend		no trend	no trend	no trend	no trend	no trend		

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Cing Cerf Brook- NF02ZB0005

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January																		
February	-0.190	0.164	0.548	-0.714	0.238	-0.443	-0.190	-0.252	-0.310	-0.405	-0.238	-0.371	0.214	-0.922****	-0.762*	0.000	-0.659	-0.577
March																		
April	0.617	-0.179	0.695	-0.190	0.067	0.483	0.517	0.400	0.513	0.517	0.333	0.102	-0.126	0.487	0.500	0.524	0.183	-0.926*
May																		
June	0.757	-0.225	-0.721	-0.319	-0.071	0.704	0.429	0.312	-0.073	0.595	0.179	-0.643	0.119	-0.036	0.214	0.577	-0.190	-0.775
July																		
August	-0.595	0.494	0.708	-0.548	-0.395	-0.571	-0.857**	-0.663	-0.843**	-0.143	-0.874**	0.452	0.383	-0.619	-0.321	-0.647	0.548	-
September																		
October	-0.107	0.954***	-0.071	-0.236	-0.214	-0.500	-0.320	0.054	-0.564	0.739	0.107	0.750	0.143	-0.805*	0.058	-0.342	0.536	-
November																		
December	-0.600	0.278	0.205	-	-0.143	-0.071	-0.288	-0.108	-0.847*	0.357	-0.107	0.429	0.234	-0.486	-0.371	-0.086	0.393	-0.894
Pos	2	4	4	0	2	2	2	3	1	4	3	4	5	1	3	3	4	0
Neg	4	2	2	5	4	4	4	3	5	2	3	2	1	5	3	3	2	4
Trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	pos trend	neg trend	no trend	no trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January																	
February	-0.333	0.577	0.504	-0.294	-0.136	-0.500	-0.810*	-0.791	0.183	0.095	0.546	0.334	0.452	-0.316	-0.190	0.126	-0.133
March																	
April	0.418	-0.030	0.104	-0.303	0.466	0.017	-0.267	-0.576	0.530	0.075	0.104	0.547	0.291	0.316	0.533	0.266	0.008
May																	
June	0.084	-0.577	-0.577	-0.282	0.206	-0.132	-0.143	-0.828	0.135	-0.238	-0.252	-0.327	-0.409	-	0.434	0.096	-0.317
July																	
August	-0.303	0.247	0.247	0.327	-0.062	-0.295	0.262	-0.791*	-0.556	0.452	-0.365	0.655	-0.761*	0.316	-0.595	-0.518	0.755*
September																	
October	-0.036	-0.571	-0.089	-0.262	-0.089	0.179	0.393	-0.278	-0.445	0.750	-0.478	-0.222	0.090	-	-0.786*	-0.225	0.360
November																	
December	0.185	-0.204	0.000	0.535	-0.204	-0.179	0.571	-0.894	0.243	0.714	0.316	0.039	0.000	-	-0.429	0.020	0.126
Pos	3	2	4	2	2	2	3	0	4	5	3	4	4	2	2	4	4
Neg	3	4	2	4	4	4	3	6	2	1	3	2	2	1	4	2	2
Trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend

Grandy Brook- NF02ZC0001

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.683*	0.693*	-0.263	-	-0.142	-0.159	-0.505	-0.609	-0.693*	-0.252	-0.236	-0.393	-0.084	-0.056	-0.247	-0.538	-0.071	-	-0.309
February				-														-	
March	-0.533	0.175	-0.053	-	-0.460	-0.550	0.263	-0.417	0.048	-0.443	0.008	-	0.286	-0.093	-0.500	-0.351	-0.257	-	-0.655
April				-														-	
May	-0.217	-0.289	-0.192	-	0.017	0.025	-0.136	-0.051	0.444	-0.025	0.143	-0.289	0.029	0.263	0.192	-0.374	-0.100	-	-0.655
June				-														-	
July	-0.571	0.615	0.170	-	-0.555	-0.195	-0.639	-0.378	-0.494	-0.619	-0.537	0.000	0.383	0.524	-0.412	-0.378	-0.024	-	-0.845
August				-														-	
September	-0.583	0.268	-0.024	-	-0.267	-0.347	-0.126	-0.524	0.143	0.238	-0.883****	-0.707	-0.144	-0.650	-0.288	-0.192	-0.643	-	-0.359
October				-														-	
November	0.095	0.158	0.038	-	-0.410	0.143	0.120	-0.143	0.072	-0.012	0.096	-	-0.393	-0.457	0.506	0.366	-0.300	-	-
December				-														-	
Pos	1	5	2		1	1	2	0	4	1	3	1	3	2	2	1	0		0
Neg	5	1	4		5	5	4	6	2	5	3	3	3	4	4	5	6		5
Trend	neg trend	pos trend	no trend		no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Grey River- NF02ZD0003

Spearman Rank Correlation Coefficients for Monthly Means

* significant at 0.05 level
** significant at 0.02 level
*** significant at 0.01 level
**** significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.494	0.393	-0.527	-	0.226	0.268	-0.544	-0.569	-0.802*	-0.407	-0.144	0.000	0.286	0.420	-0.638	-0.133	0.371	-	-0.845
February				-														-	
March	-0.720*	-0.025	0.017	-	-0.874****	-0.550	-0.381	-0.603	-0.455	-0.669	-0.400	-0.316	0.214	-0.285	-0.874****	-0.700*	-0.600	-	-0.655
April				-														-	
May	0.083	-0.527	-0.383	-	0.254	0.167	-0.033	0.050	0.203	0.159	0.050	-	-0.147	0.702	0.101	-0.265	-0.738	-	-0.612
June				-														-	
July	-0.793*	0.613	0.207	-	-0.148	-0.600	-0.679	-0.607	-0.541	-0.657	-0.901**	0.707	0.143	0.112	-0.073	0.500	-0.029	-	-0.775
August				-														-	
September	-0.917****	0.683	0.703	-	-0.603	-0.800**	-0.783*	-0.765*	-0.805*	-0.627	-0.650	0.527	0.036	0.427	-0.093	-0.167	-0.500	-	-0.359
October				-														-	
November	-0.381	0.217	-0.563	-	-0.048	0.000	-0.222	-0.144	-0.360	-0.090	-0.360	-0.894	-0.108	-0.049	-0.185	-0.262	-0.100	-	0.707
December				-														-	
Pos	1	4	3		2	3	0	1	1	1	1	3	4	4	1	1	1		1
Neg	5	2	3		4	3	6	5	5	5	5	2	2	2	5	5	5		5
Trend	neg trend	no trend	no trend		no trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	neg trend	neg trend	no trend		neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pos																	
Neg																	
Trend																	

Appendix F:
Overall Trend Summaries

Hearts Content Brook- NF02ZL0002

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	up	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	no	down	**down**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	up	up	**up**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	up	no	**no**
BAT	down	no	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	no	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	down	no	down	**down**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**6**
Total down				**7**
Total no				**22**
Total				**35**

Spout Cove Brook- NF02ZL0001

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	up	no	**no**
PHL	no	no	no	**no**
CAD	down	no	no	**no**
NAD	down	down	down	**down**
MGD	down	down	no	**down**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	down	down	down	**down**
DOC	no	up	up	**up**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	down	down	down	**down**
BAT	down	down	down	**down**
BET	no	-	no	**no**
CDT	no	-	no	**no**
COT	no	no	no	**no**
CRT	down	no	no	**no**
CUT	no	down	down	**down**
FET	no	up	up	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	up	up	up	**up**
MOT	down	down	down	**down**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	down	no	down	**down**
SRT	down	down	down	**down**
VT	down	down	down	**down**
ZNT	no	down	no	**no**
Total up				**5**
Total down				**14**
Total no				**16**
Total				**35**

Goulds Brook- NF02ZL0029

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	up	up	up	**up**
COLORA	up	up	up	**up**
TURB	no	no	no	**no**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	up	no	**no**
NAD	up	up	up	**up**
MGD	no	no	up	**no**
KD	down	no	down	**down**
SO4IC	up	up	up	**up**
CLD	up	up	up	**up**
DOC	no	no	no	**no**
PT	down	down	down	**down**
NO3NO2	down	no	down	**down**
NT	down	down	down	**down**
SID	no	no	no	**no**
ALT	no	down	down	**down**
AST	no	down	no	**no**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	down	down	down	**down**
CRT	up	up	up	**up**
CUT	no	no	no	**no**
FET	no	down	no	**no**
HGT	no	no	no	**no**
LIT	no	no	no	**no**
MNT	no	down	down	**down**
MOT	up	up	up	**up**
NIT	up	up	up	**up**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	up	up	**up**
VT	no	no	no	**no**
ZNT	up	up	up	**up**
Total up				**12**
Total down				**7**
Total no				**16**
Total				**35**

Broad Cove Brook- NF02ZM0020

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	up	up	up	**up**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	up	up	up	**up**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	up	up	up	**up**
DOC	no	no	no	**no**
PT	no	down	no	**no**
NO3NO2	no	no	no	**no**
NT	up	no	up	**up**
SID	no	up	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	up	up	**up**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	up	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	up	up	up	**up**
MNT	no	up	no	**no**
MOT	up	up	up	**up**
NIT	up	up	up	**up**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	up	up	**up**
Total up				**13**
Total down				**2**
Total no				**20**
Total				**35**

Virginia River (@ Outlet to Quidi Vidi Lake)- NF02ZM0014
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	no	up	**up**
CAD	down	down	down	**down**
NAD	no	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	up	up	up	**up**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	down	down	down	**down**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	down	no	down	**down**
CDT	no	no	no	**no**
COT	down	down	down	**down**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	no	no	no	**no**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	down	down	no	**down**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	down	down	down	**down**
Total up				**7**
Total down				**9**
Total no				**19**
Total				**35**

Kelly's Brook- NF02ZM0144

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	-	down	**down**
COLORA	down	-	down	**down**
TURB	down	-	no	**no**
O2D	no	-	no	**no**
PHL	no	-	no	**no**
CAD	down	-	down	**down**
NAD	no	-	down	**no**
MGD	down	-	down	**down**
KD	no	-	down	**down**
SO4IC	down	-	down	**down**
CLD	down	-	down	**down**
DOC	no	-	no	**no**
PT	no	-	up	**up**
NO3NO2	no	-	no	**no**
NT	down	-	down	**down**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	no	-	no	**no**
BAT	down	-	down	**down**
BET	down	-	down	**down**
CDT	down	-	down	**down**
COT	down	-	down	**down**
CRT	no	-	no	**no**
CUT	no	-	down	**down**
FET	no	-	down	**down**
HGT	no	-	down	**down**
LIT	down	-	down	**down**
MNT	down	-	down	**down**
MOT	down	-	no	**no**
NIT	no	-	no	**no**
PBT	no	-	no	**no**
SET	no	-	no	**no**
SRT	down	-	down	**down**
VT	no	-	no	**no**
ZNT	no	-	no	**no**
Total up				**1**
Total down				**18**
Total no				**16**
Total				**35**

Rennies River (@Carnell Dr)- NF02ZM0016

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	up	up	**up**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	up	up	up	**up**
CLD	no	no	no	**no**
DOC	up	up	up	**up**
PT	down	down	down	**down**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	up	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	no	no	no	**no**
CDT	down	no	down	**down**
COT	down	down	down	**down**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	down	down	down	**down**
HGT	no	no	no	**no**
LIT	no	up	up	**up**
MNT	down	down	down	**down**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	down	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**9**
Total down				**9**
Total no				**17**
Total				**35**

Mundy Pond- NF02ZM0109

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	-	down	**down**
COLORA	down	-	down	**down**
TURB	down	-	down	**down**
O2D	no	-	no	**no**
PHL	no	-	no	**no**
CAD	no	-	no	**no**
NAD	no	-	no	**no**
MGD	down	-	down	**down**
KD	down	-	down	**down**
SO4IC	no	-	no	**no**
CLD	no	-	no	**no**
DOC	up	-	up	**up**
PT	no	-	no	**no**
NO3NO2	no	-	no	**no**
NT	down	-	down	**down**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	no	-	no	**no**
BAT	down	-	down	**down**
BET	down	-	down	**down**
CDT	down	-	down	**down**
COT	down	-	down	**down**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	down	-	down	**down**
HGT	no	-	no	**no**
LIT	down	-	down	**down**
MNT	down	-	down	**down**
MOT	no	-	no	**no**
NIT	no	-	no	**no**
PBT	no	-	no	**no**
SET	no	-	no	**no**
SRT	down	-	down	**down**
VT	no	-	no	**no**
ZNT	down		down	**down**
Total up				**1**
Total down				**15**
Total no				**19**
Total				**35**

Waterford River (@ Kilbride)- NF02ZM0009
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	up	up	**up**
CAD	no	no	no	**no**
NAD	up	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	up	up	up	**up**
CLD	no	no	no	**no**
DOC	up	no	up	**up**
PT	down	down	down	**down**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	up	up	**up**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	no	no	no	**no**
COT	down	down	down	**down**
CRT	no	no	no	**no**
CUT	down	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	up	up	up	**up**
MNT	down	down	down	**down**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	no
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**11**
Total down				**6**
Total no				**18**
Total				**35**

Quidi Vidi Outlet- NF02ZM0015

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	no	up	**up**
CAD	down	no	no	**no**
NAD	no	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	up	up	up	**up**
PT	down	down	down	**down**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	no	no	no	**no**
CDT	no	no	no	**no**
COT	down	down	down	**down**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	down	down	down	**down**
HGT	no	no	no	**no**
LIT	no	no	no	**no**
MNT	down	down	down	**down**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	down	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**7**
Total down				**8**
Total no				**20**
Total				**35**

Raymond Brook- NF02ZM0017

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	up	no	**no**
COLORA	no	no	no	**no**
TURB	no	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	up	up	up	**up**
DOC	no	no	no	**no**
PT	no	down	no	**no**
NO3NO2	no	no	no	**no**
NT	up	no	no	**no**
SID	no	no	no	**no**
ALT	no	down	down	**down**
AST	down	down	down	**down**
BAT	no	down	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	down	down	**down**
CRT	no	up	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	down	down	down	**down**
MOT	up	up	up	**up**
NIT	up	up	up	**up**
PBT	no	no	no	**no**
SET	no	down	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	no
ZNT	down	no	down	**down**
Total up				**6**
Total down				**8**
Total no				**21**
Total				**35**

Mobile River- NF02ZM0018

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	no	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	up	no	**no**
CLD	no	down	down	**down**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	down	no	**no**
NT	no	no	no	**no**
SID	no	up	up	**up**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	no	-	no	**no**
CDT	no	no	no	**no**
COT	down	down	down	**down**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	down	no	**no**
HGT	down	no	down	**down**
LIT	no	no	no	**no**
MNT	down	down	down	**down**
MOT	no	up	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	down	**no**
ZNT	no	no	no	**no**
Total up				**3**
Total down				**8**
Total no				**24**
Total				**35**

Seal Cove River- NF02ZM0019

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	no	down	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	down	no	down	**down**
NO3NO2	no	no	no	**no**
NT	no	up	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	-	-	no	**no**
CDT	no	no	no	**no**
COT	up	up	up	**up**
CRT	no	down	down	**down**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	no
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**3**
Total down				**5**
Total no				**27**
Total				**35**

Northwest Brook- NF02ZN0002

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	no	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	down	no	**no**
NAD	no	down	no	**no**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	up	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	up	no	**no**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	no	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	up	no	**no**
CRT	up	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	down	no	down	**down**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	up	up	up	**up**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	up	up	up	**up**
ZNT	no	no	no	**no**
Total up				**8**
Total down				**6**
Total no				**21**
Total				**35**

Salmonier River- NF02ZN0004

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	up	up	**up**
TURB	no	up	up	**up**
O2D	no	no	no	**no**
PHL	up	no	up	**up**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	down	no	**no**
KD	down	down	down	**down**
SO4IC	no	up	no	**no**
CLD	down	down	down	**down**
DOC	no	no	no	**no**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	down	down	down	**down**
AST	up	up	up	**up**
BAT	down	down	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	no	no	**no**
CRT	up	no	up	**up**
CUT	no	no	no	**no**
FET	down	down	down	**down**
HGT	down	down	no	**down**
LIT	no	down	down	**down**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	up	up	no	**up**
PBT	no	no	no	**no**
SET	down	no	no	**no**
SRT	no	down	down	**down**
VT	no	down	down	**down**
ZNT	no	no	no	**no**
Total up				**10**
Total down				**12**
Total no				**13**
Total				**35**

Rocky River- NF02ZK0001

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	down	down	down	**down**
O2D	down	-	down	**down**
PHL	no	no	up	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	no	up	no	**no**
SO4IC	no	no	down	**no**
CLD	no	no	no	**no**
FD	-	-	no	**no**
DOC	no	no	no	**no**
PT	no	no	up	**no**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	no	down	**no**
ALT	no	-	-	**no**
AST	down	down	down	**down**
BAT	no	-	-	**no**
BET	no	-	-	**no**
CDT	up	-	-	**up**
COT	no	-	-	**no**
CRT	up	-	-	**up**
CUT	up	-	-	**up**
FET	no	-	-	**no**
HGT	-	-	-	-
LIT	no	-	-	**no**
MNT	no	-	-	**no**
MOT	no	-	-	**no**
NIT	no	-	-	**no**
PBT	no	-	-	**no**
SET	-	-	-	-
SRT	no	-	-	**no**
VT	no	-	-	**no**
ZNT	no	-	-	**no**
Total up				**5**
Total down				**3**
Total no				**26**
Total				**34**

Northeast River- NF02ZK0005

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	up	no	**no**
TURB	no	up	no	**no**
O2D	no	no	no	**no**
PHL	up	no	up	**up**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	down	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	up	up	up	**up**
DOC	no	up	no	**no**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	up	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	no	no	down	**no**
LIT	down	down	down	**down**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	up	no	up	**up**
PBT	no	down	down	**down**
SET	no	no	up	**no**
SRT	no	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**7**
Total down				**4**
Total no				**24**
Total				**35**

Pipers Hole River- NF02ZH0001

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	no	down	**down**
COLORA	up	up	up	**up**
TURB	no	down	no	**no**
O2D	-	-	-	-
PHL	no	down	no	**no**
CAD	down	down	down	**down**
NAD	down	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	down	**no**
SO4IC	down	no	down	**down**
CLD	down	no	down	**down**
FD	no	-	no	**no**
DOC	no	up	up	**up**
PT	no	up	no	**no**
NO3NO2	no	no	no	**no**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	-	-	-	-
AST	down	down	down	**down**
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**3**
Total down				**6**
Total no				**8**
Total				**17**

Rattle Brook- NF02ZG0025

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	down	no	**no**
AST	down	down	down	**down**
BAT	no	no	no	**no**
BET	-	-	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	down	down	down	**down**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	down	**no**
MNT	no	up	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	down	**no**
ZNT	down	down	down	**down**
Total up				**1**
Total down				**8**
Total no				**26**
Total				**35**

Tides Brook- NF02ZG0024

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	down	no	**no**
CAD	down	down	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	up	**no**
PT	no	no	no	**no**
NO3NO2	down	down	down	**down**
NT	up	up	up	**up**
SID	no	up	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	no	-	no	**no**
CDT	no	no	no	**no**
COT	up	up	no	**up**
CRT	no	no	down	**no**
CUT	down	down	down	**down**
FET	no	up	up	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	down	no	down	**down**
Total up				**6**
Total down				**10**
Total no				**19**
Total				**35**

Garnish River- NF02ZG0016

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	no	no	no	**no**
O2D	no	-	down	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	no	up	no	**no**
FD	-	-	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	up	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	-	no	**no**
AST	down	down	down	**down**
BAT	no	-	no	**no**
BET	up	-	up	**up**
CDT	up	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	up	**no**
CUT	no	-	up	**up**
FET	no	-	no	**no**
HGT		-	no	**no**
LIT	no	-	no	**no**
MNT	no	-	no	**no**
MOT	no	-	up	**up**
NIT	no	-	no	**no**
PBT	no	-	down	**down**
SET	-	-	-	-
SRT	no	-	no	**no**
VT	no	-	no	**no**
ZNT	no	-	no	**no**
Total up				**3**
Total down				**2**
Total no				**30**
Total				**35**

Grand Bank Brook- NF02ZG0026

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	no	up	**no**
TURB	no	no	no	**no**
O2D	no	up	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	down	down	**down**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	down	no	**no**
DOC	no	no	no	**no**
PT	no	no	down	**no**
NO3NO2	no	down	down	**down**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	no	-	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	up	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	down	no	down	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	no	down	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	down	**no**
ZNT	no	no	no	**no**
Total up				**0**
Total down				**7**
Total no				**28**
Total				**35**

South West Brook (@ Baie Verte)- NF02YM0004
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	up	no	**no**
TURB	up	up	no	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	down	down	no	**down**
DOC	no	no	no	**no**
PT	down	down	no	**down**
NO3NO2	no	down	no	**no**
NT	up	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	up	up	up	**up**
CDT	up	-	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	no	down	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	down	down	down	**down**
MNT	no	down	no	**no**
MOT	down	down	down	**down**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	down	down	**down**
VT	no	down	no	**no**
ZNT	no	no	no	**no**
Total up				**3**
Total down				**14**
Total no				**18**
Total				**35**

Indian Brook- NF02YM0001

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	no	no	no	**no**
O2D	no	-	no	**no**
PHL	no	no	no	**no**
CAD	no	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
FD	-	-	no	**no**
DOC	no	no	up	**no**
PT	up	up	up	**up**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	-	-	-	-
AST	no	-	no	**no**
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**2**
Total down				**6**
Total no				**10**
Total				**18**

Exploits (b/l Millertown Dam)- NF02YO0107

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	no	no	**no**
TURB	no	no	no	**no**
O2D	up	up	up	**up**
PHL	no	up	up	**up**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	down	down	no	**down**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
DOC	no	down	no	**no**
PT	down	down	down	**down**
NO3NO2	no	down	no	**no**
NT	down	no	down	**down**
SID	down	down	down	**down**
ALT	down	down	down	**down**
AST	down	no	down	**down**
BAT	down	down	down	**down**
BET	up	up	up	**up**
CDT	down	down	down	**down**
COT	no	no	no	**no**
CRT	no	up	up	**up**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	no	**down**
LIT	no	no	no	**no**
MNT	down	down	down	**down**
MOT	no	up	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	down	down	down	**down**
Total up				**4**
Total down				**20**
Total no				**11**
Total				**35**

Exploits (@ Aspen Brook)- NF02YO0020

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	no	up	no	**no**
O2D	no	no	no	**no**
PHL	up	up	up	**up**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
DOC	no	no	no	**no**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	up	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	down	down	no	**down**
BAT	down	down	down	**down**
BET	-	-	-	-
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	no	**down**
LIT	down	down	down	**down**
MNT	down	down	down	**down**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	down	down	down	**down**
Total up				**2**
Total down				**16**
Total no				**16**
Total				**34**

Exploits (@ Grand Falls)- NF02YO0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	down	down	down	**down**
O2D	no	-	no	**no**
PHL	up	up	up	**up**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	no	down	no	**no**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
FD	-	-	no	no
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	up	no	up	**up**
NT	up	up	up	**up**
SID	no	down	no	**no**
ALT	-	-	-	-
AST	down	down	down	**down**
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**4**
Total down				**8**
Total no				**6**
Total				**18**

Exploits (@ Bishop Falls)- NF02YO0021

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	-	down	**down**
COLORA	up	-	up	**up**
TURB	no	-	no	**no**
O2D	no	-	no	**no**
PHL	up	-	up	**up**
CAD	down	-	no	**no**
NAD	no	-	no	**no**
MGD	no	-	no	**no**
KD	no	-	no	**no**
SO4IC	down	-	down	**down**
CLD	no	-	no	**no**
DOC	no	-	no	**no**
PT	down	-	down	**down**
NO3NO2	up	-	up	**up**
NT	no	-	no	**no**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	no	-	down	**down**
BAT	down	-	down	**down**
BET	up	-	up	**up**
CDT	no	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	down	-	down	**down**
FET	no	-	no	**no**
HGT	no	-	no	**no**
LIT	no	-	down	**down**
MNT	down	-	no	**no**
MOT	up	-	no	**no**
NIT	no	-	no	**no**
PBT	down	-	down	**down**
SET	-	-	-	**-**
SRT	down	-	down	**down**
VT	down	-	down	**down**
ZNT	down	-	down	**down**
Total up				**4**
Total down				**11**
Total no				**19**
Total				**34**

North West Gander River- NF02YQ0006

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	no	no	no	**no**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	down	no	down	**down**
SO4IC	down	down	down	**down**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	down	down	no	**down**
NO3NO2	no	no	no	**no**
NT	no	up	no	**no**
SID	no	no	no	**no**
ALT	no	down	down	**down**
AST	no	down	down	**down**
BAT	no	down	down	**down**
BET	up	up	up	**up**
CDT	up	up	no	**up**
COT	no	no	no	**no**
CRT	down	no	no	**no**
CUT	down	down	no	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	down	down	down	**down**
MNT	no	no	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	down	no	down	**down**
ZNT	no	no	no	**no**
Total up				**2**
Total down				**10**
Total no				**23**
Total				**35**

Gander River (@ Appleton)- NF02YQ0030

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	no	no	**no**
TURB	no	no	no	**no**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	down	down	down	**down**
NAD	no	down	no	**no**
MGD	down	down	down	**down**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	down	no	**no**
NT	no	up	no	**no**
SID	no	down	no	**no**
ALT	down	down	down	**down**
AST	down	down	down	**down**
BAT	no	down	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	up	no	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	down	down	**down**
HGT	no	no	no	**no**
LIT	down	down	down	**down**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	-	no	**no**
SRT	down	down	down	**down**
VT	up	up	up	**up**
ZNT	no	no	no	**no**
Total up				**4**
Total down				**10**
Total no				**21**
Total				**35**

Gander River- NF02YQ0005

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	up	no	**no**
COLORA	up	no	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	down	down	**down**
MGD	no	up	up	**up**
KD	down	down	down	**down**
SO4IC	no	down	no	**no**
CLD	no	down	no	**no**
DOC	up	up	no	**up**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	no	up	up	**up**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	-	-	no	**no**
CDT	down	down	no	**down**
COT	no	down	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	up	up	up	**up**
HGT	no	no	no	**no**
LIT	no	no	no	**no**
MNT	no	up	no	**no**
MOT	no	-	no	**no**
NIT	up	up	up	**up**
PBT	no	no	down	**no**
SET	no	no	no	**no**
SRT	no	up	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**6**
Total down				**3**
Total no				**26**
Total				**35**

Pound Cove Brook- NF02YR0001

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	down	down	down	**down**
CAD	no	down	down	**down**
NAD	no	down	no	**no**
MGD	no	down	no	**no**
KD	no	no	no	**no**
SO4IC	no	down	down	**down**
CLD	no	no	no	**no**
DOC	no	no	down	**no**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	up	up	up	**up**
SID	no	up	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	no	up	no	**no**
CDT	up	up	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	no	**down**
FET	no	no	no	**no**
HGT	no	down	no	**no**
LIT	down	down	down	**down**
MNT	no	no	no	**no**
MOT	no	no	no	**no**
NIT	down	down	down	**down**
PBT	down	down	down	**down**
SET	down	down	no	**down**
SRT	no	down	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**4**
Total down				**9**
Total no				**22**
Total				**35**

Middle Brook- NF02YR0021

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	-	down	**down**
COLORA	up	-	no	**no**
TURB	up	-	up	**up**
O2D	up	-	up	**up**
PHL	down	-	down	**down**
CAD	down	-	down	**down**
NAD	down	-	down	**down**
MGD	down	-	down	**down**
KD	down	-	down	**down**
SO4IC	down	-	down	**down**
CLD	no	-	no	**no**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	no	-	no	**no**
NT	no	-	no	**no**
SID	no	-	down	**down**
ALT	no	-	no	**no**
AST	no	-	no	**no**
BAT	no	-	no	**no**
BET	up	-	up	**up**
CDT	up	-	up	**up**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	no	-	up	**no**
HGT	down	-	down	**down**
LIT	down	-	down	**down**
MNT	no	-	no	**no**
MOT	no	-	no	**no**
NIT	up	-	up	**up**
PBT	down	-	down	**down**
SET	no	-	no	**no**
SRT	down	-	down	**down**
VT	down	-	no	**down**
ZNT	up	-	up	**up**
Total up				**6**
Total down				**13**
Total no				**16**
Total				**35**

Terra Nova River (@ Newton Lake)- NF02YS0012

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	no	**no**
COLORA	no	no	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	down	no	**no**
NAD	down	down	down	**down**
MGD	no	down	down	**down**
KD	down	down	down	**down**
SO4IC	no	down	no	**no**
CLD	no	down	no	**no**
DOC	down	down	down	**down**
PT	no	down	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	-	-	no	**no**
CDT	no	up	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**2**
Total down				**7**
Total no				**26**
Total				**35**

Terra Nova River (@ Terra Nova)- NF02YS0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	up	up	up	**up**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	up	up	no	**up**
SO4IC	no	no	no	**no**
CLD	no	up	up	**up**
DOC	no	down	no	**no**
PT	no	no	no	**no**
NO3NO2	no	up	up	**up**
NT	no	up	up	**up**
SID	no	up	up	**up**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	-	up	**up**
CDT	up	up	up	**up**
COT	no	no	no	**no**
CRT	no	up	no	**no**
CUT	no	no	no	**no**
FET	no	no	up	**no**
HGT	down	no	down	**down**
LIT	no	no	no	**no**
MNT	no	no	up	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	**no**	no	**no**
SET	down	-	down	**down**
SRT	no	no	no	**no**
VT	no	no	up	**no**
ZNT	no	no	no	**no**
Total up				**9**
Total down				**2**
Total no				**24**
Total				**35**

Terra Nova River (@ E.S. Spencer)- NF02YS0011
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	down	-	no	**no**
TURB	up	up	up	**up**
O2D	no	down	no	**no**
PHL	no	no	no	**no**
CAD	no	down	no	**no**
NAD	no	no	no	**no**
MGD	no	down	down	**down**
KD	no	down	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	up	no	up	**up**
COT	no	up	up	**up**
CRT	no	no	no	**no**
CUT	no	down	no	**no**
FET	no	up	up	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	no	no	**no**
NIT	no	no	no	**no**
PBT	no	down	down	**down**
SET	no	down	no	**no**
SRT	no	down	no	**no**
VT	no	up	no	**no**
ZNT	no	no	no	**no**
Total up				**5**
Total down				**3**
Total no				**27**
Total				**35**

Bread Cove Brook- NF02YS0010

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	down	no	down	**down**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	no	**down**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	no	no	down	**no**
DOC	no	no	up	**no**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	up	up	**up**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	no	-	no	**no**
CDT	no	-	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	down	down	down	**down**
MNT	no	no	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	down	down	down	**down**
Total up				**3**
Total down				**13**
Total no				**19**
Total				**35**

Southwest Brook (@ Terra Nova National Park)- NF02YS0005
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	down	down	down	**down**
SO4IC	no	down	down	**down**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	down	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	down	no	**no**
ALT	no	no	up	**no**
AST	no	no	no	**no**
BAT	down	no	down	**down**
BET	up	up	up	**up**
CDT	down	down	down	**down**
COT	down	down	no	**down**
CRT	down	down	down	**down**
CUT	down	no	no	**no**
FET	no	no	no	**no**
HGT	no	-	no	**no**
LIT	down	down	down	**down**
MNT	no	down	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	down	no	down	**down**
ZNT	no	no	no	**no**
Total up				**4**
Total down				**15**
Total no				**16**
Total				**35**

Southern Bay River- NF02ZJ0024

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	down	down	down	**down**
DOC	no	no	no	**no**
PT	no	down	down	**down**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	up	no	**no**
CRT	no	no	no	**no**
CUT	down	no	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	down	no	**no**
MNT	no	no	no	**no**
MOT	up	up	no	**up**
NIT	up	up	up	**up**
PBT	down	no	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	up	no	**no**
ZNT	no	down	no	**no**
Total up				**6**
Total down				**7**
Total no				**22**
Total				**35**

Bay du Nord River- NF02ZF0020

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	no	-	no	**no**
O2D	no	-	no	**no**
PHL	no	-	no	**no**
CAD	down	-	down	**down**
NAD	down	-	no	**down**
MGD	no	-	no	**no**
KD	down	-	down	**down**
SO4IC	no	-	no	**no**
CLD	no	-	no	**no**
DOC	down	-	down	**down**
PT	no	-	no	**no**
NO3NO2	no	-	no	**no**
NT	no	-	no	**no**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	no	-	no	**no**
BAT	no	-	no	**no**
BET	-	-	no	**no**
CDT	no	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	no	-	no	**no**
HGT	down	-	down	**down**
LIT	down	-	down	**down**
MNT	no	-	no	**no**
MOT	no	-	no	**no**
NIT	no	-	no	**no**
PBT	down	-	down	**down**
SET	down	-	down	**down**
SRT	down	-	down	**down**
VT	no	-	no	**no**
ZNT	no	-	no	**no**
Total up				**0**
Total down				**9**
Total no				**26**
Total				**35**

Jeddore Lake- NF02ZE0018

Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	-	down	**down**
COLORA	no	-	no	**no**
TURB	no	-	no	**no**
O2D	no	-	no	**no**
PHL	no	-	no	**no**
CAD	down	-	down	**down**
NAD	down	-	down	**down**
MGD	down	-	down	**down**
KD	down	-	down	**down**
SO4IC	no	-	no	**no**
CLD	no	-	no	**no**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	no	-	no	**no**
NT	no	-	no	**no**
SID	up	-	no	**up**
ALT	no	-	no	**no**
AST	no	-	no	**no**
BAT	no	-	no	**no**
BET	-	-	no	**no**
CDT	no	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	no	-	no	**no**
HGT	down	-	down	**down**
LIT	no	-	down	**down**
MNT	no	-	no	**no**
MOT	no	-	no	**no**
NIT	no	-	no	**no**
PBT	no	-	no	**no**
SET	no	-	no	**no**
SRT	down	-	down	**down**
VT	no	-	no	no
ZNT	up	-	up	**up**
Total up				**2**
Total down				**8**
Total no				**25**
Total				**35**

Ste. Genevieve River- NF02YA0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	no	-	no	**no**
O2D	no	-	no	**no**
PHL	no	-	no	**no**
CAD	no	-	no	**no**
NAD	down	-	down	**down**
MGD	no	-	no	**no**
KD	up	-	up	**up**
SO4IC	no	-	down	**down**
CLD	down	-	down	**down**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	up	-	up	**up**
NT	up	-	up	**up**
SID	no	-	no	**no**
ALT	no	-	down	**down**
AST	no	-	no	**no**
BAT	no	-	no	**no**
BET	up	-	up	**up**
CDT	up	-	up	**up**
COT	up	-	up	**up**
CRT	up	-	up	**up**
CUT	no	-	no	**no**
FET	no	-	no	**no**
HGT	down	-	no	**no**
LIT	no	-	no	**no**
MNT	no	-	no	**no**
MOT	up	-	up	**up**
NIT	up	-	up	**up**
PBT	up	-	up	**up**
SET	no	-	no	**no**
SRT	no	-	no	**no**
VT	up	-	up	**up**
ZNT	up		up	**up**
Total up				**12**
Total down				**4**
Total no				**19**
Total				**35**

Torrent River- NF02YC0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	no	up	**up**
TURB	down	down	down	**down**
O2D	-	-	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
FD	-	-	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	up	no	up	**up**
SID	no	no	no	**no**
ALT	-	-	-	**-**
AST	no	down	down	**down**
BAT	-	-	-	**-**
BET	-	-	-	**-**
CDT	-	-	-	**-**
COT	-	-	-	**-**
CRT	-	-	-	**-**
CUT	-	-	-	**-**
FET	-	-	-	**-**
HGT	-	-	-	**-**
LIT	-	-	-	**-**
MNT	-	-	-	**-**
MOT	-	-	-	**-**
NIT	-	-	-	**-**
PBT	-	-	-	**-**
SET	-	-	-	**-**
SRT	-	-	-	**-**
VT	-	-	-	**-**
ZNT	-	-	-	**-**
Total up				**2**
Total down				**6**
Total no				**10**
Total				**18**

Portland Creek- NF02YE0004
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	up	up	**up**
CAD	up	no	up	**up**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
DOC	up	up	up	**up**
PT	no	no	no	**no**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	down	no	**no**
ALT	up	up	up	**up**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	up	-	up	**up**
CDT	up	up	no	**up**
COT	up	up	up	**up**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	up	up	up	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	up	up	**up**
MOT	up	up	up	**up**
NIT	up	up	up	**up**
PBT	no	down	down	**down**
SET	down	no	down	**down**
SRT	no	down	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**15**
Total down				**10**
Total no				**10**
Total				**35**

Western Brook- NF02YE0005
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	up	no	up	**up**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	no	down	no	**no**
SO4IC	no	down	no	**no**
CLD	down	down	down	**down**
DOC	up	up	up	**up**
PT	no	no	no	**no**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	no	up	up	**up**
ALT	up	up	up	**up**
AST	up	up	up	**up**
BAT	no	no	no	**no**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	up	up	up	**up**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	no	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	down	no	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**13**
Total down				**6**
Total no				**16**
Total				**35**

Main River- NF02YG0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	down	**down**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	down	no	**no**
KD	down	down	down	**down**
SO4IC	no	down	down	**down**
CLD	down	down	down	**down**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	no	up	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	down	no	**no**
BET	up	-	up	**up**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	no	**down**
LIT	no	down	no	**no**
MNT	no	up	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	down	down	**down**
SET	no	no	no	**no**
SRT	no	down	no	**no**
VT	no	no	no	**no**
ZNT	no	down	no	**no**
Total up				**3**
Total down				**8**
Total no				**24**
Total				**35**

Lomond River- NF02YH0018
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	down	down	down	**down**
CAD	no	down	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	down	no	**no**
CLD	no	down	down	**down**
DOC	up	up	up	**up**
PT	no	no	no	**no**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	up	up	up	**up**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	up	up	up	**up**
CDT	up	up	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	down	**no**
SRT	no	down	no	**no**
VT	no	no	no	**no**
ZNT	down	no	no	**no**
Total up				**9**
Total down				**7**
Total no				**19**
Total				**35**

Upper Humber River- NF02YL0011
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	up	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	up	**no**
KD	no	no	no	**no**
SO4IC	down	down	down	**down**
CLD	no	down	no	**no**
DOC	no	up	no	**no**
PT	no	down	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	up	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	up	-	up	**up**
CDT	up	-	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	down	**no**
MNT	no	no	no	**no**
MOT	up	-	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**5**
Total down				**3**
Total no				**27**
Total				**35**

Humber Canal- NF02YK0022
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	up	-	up	**up**
O2D	no	-	down	**down**
PHL	up	-	up	**up**
CAD	no	-	no	**no**
NAD	down	-	down	**down**
MGD	no	-	no	**no**
KD	no	-	no	**no**
SO4IC	no	-	no	**no**
CLD	up	-	up	**up**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	no	-	up	**up**
NT	no	-	no	**no**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	no	-	down	**down**
BAT	no	-	no	**no**
BET	-	-	no	**no**
CDT	-	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	no	-	no	**no**
HGT	down	-	down	**down**
LIT	no	-	no	**no**
MNT	no	-	no	**no**
MOT	no	-	no	**no**
NIT	no	-	no	**no**
PBT	no	-	no	**no**
SET	no	-	no	**no**
SRT	no	-	no	**no**
VT	no	-	no	**no**
ZNT	no	-	no	**no**
Total up				**4**
Total down				**4**
Total no				**27**
Total				**35**

Lower Humber River- NF02YL0012
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	up	**no**
COLORA	no	up	up	**up**
TURB	up	up	up	**up**
O2D	no	down	down	**down**
PHL	up	up	up	**up**
CAD	up	up	up	**up**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	no	**down**
SO4IC	no	no	no	**no**
CLD	no	down	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	up	no	up	**up**
NT	no	up	up	**up**
SID	up	no	up	**up**
ALT	no	up	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	no	no	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	up	up	no	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	up	no	**no**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	down	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**8**
Total down				**6**
Total no				**21**
Total				**35**

Wild Cove Brook- NF02YL0029
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	up	-	up	**up**
O2D	down	-	down	**down**
PHL	down	-	down	**down**
CAD	no	-	no	**no**
NAD	no	-	no	**no**
MGD	no	-	no	**no**
KD	up	-	up	**up**
SO4IC	no	-	no	**no**
CLD	no	-	no	**no**
DOC	no	-	up	**up**
PT	no	-	no	**no**
NO3NO2	up	-	up	**up**
NT	up	-	up	**up**
SID	no	-	no	**no**
ALT	no	-	up	**up**
AST	down	-	down	**down**
BAT	up	-	up	**up**
BET	up	-	no	**no**
CDT	no	-	no	**no**
COT	no	-	no	**no**
CRT	no	-	no	**no**
CUT	no	-	no	**no**
FET	up	-	up	**up**
HGT	down	-	down	**down**
LIT	up	-	up	**up**
MNT	up	-	no	**no**
MOT	no	-	no	**no**
NIT	up	-	up	**up**
PBT	no	-	no	**no**
SET	no	-	no	**no**
SRT	no	-	no	**no**
VT	no	-	no	**no**
ZNT	up	-	up	**up**
Total up				**11**
Total down				**4**
Total no				**20**
Total				**35**

Corner Brook- NF02YL0013
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	up	up	up	**up**
PT	no	no	no	**no**
NO3NO2	up	up	up	**up**
NT	up	up	up	**up**
SID	up	no	no	**no**
ALT	up	up	up	**up**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	no	no	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	up	up	up	**up**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	no	no	**no**
NIT	no	no	no	**no**
PBT	no	down	down	**down**
SET	no	no	down	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**7**
Total down				**3**
Total no				**25**
Total				**35**

Pinchgut Brook- NF02YJ0004
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	no	**no**
COLORA	up	up	up	**up**
TURB	up	up	up	**up**
O2D	no	down	down	**down**
PHL	down	down	down	**down**
CAD	no	down	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
DOC	no	up	up	**up**
PT	no	down	no	**no**
NO3NO2	up	up	up	**up**
NT	no	no	no	**no**
SID	up	up	up	**up**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	down	down	down	**down**
BET	up	-	up	**up**
CDT	up	-	up	**up**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	no	**down**
FET	no	up	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	no	**no**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	down	down	down	**down**
Total up				**8**
Total down				**11**
Total no				**16**
Total				**35**

Harry's River- NF02YJ0006
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	no	up	**up**
TURB	no	up	no	**no**
O2D	up	-	up	**up**
PHL	no	no	no	**no**
CAD	no	down	no	**no**
NAD	down	down	down	**down**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	down	down	down	**down**
CLD	down	down	down	**down**
DOC	no	no	no	**no**
PT	no	up	up	**up**
NO3NO2	no	down	down	**down**
NT	no	down	no	**no**
SID	no	no	no	**no**
ALT	no	-	-	**no**
AST	down	no	down	**down**
BAT	no	-	-	**no**
BET	up	-	-	**up**
CDT	up	-	-	**up**
COT	no	-	-	**no**
CRT	no	-	-	**no**
CUT	no	-	-	**no**
FET	no	-	-	**no**
HGT	no	-	-	**no**
LIT	no	-	-	**no**
MNT	no	-	-	**no**
MOT	no	-	-	**no**
NIT	no	-	-	**no**
PBT	no	-	-	**no**
SET	-	-	-	**-**
SRT	no	-	-	**no**
VT	no	-	-	**no**
ZNT	no	-	-	**no**
Total up				**5**
Total down				**7**
Total no				**22**
Total				**34**

Lloyd's River- NF02YN0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	no	**no**
COLORA	no	no	no	**no**
TURB	up	up	up	**up**
O2D	no	down	down	**down**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	down	down	down	**down**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	up	up	up	**up**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	no	no	**no**
BET	no	-	up	**up**
CDT	up	-	up	**up**
COT	up	up	up	**up**
CRT	no	no	no	**no**
CUT	down	no	down	**down**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	no	up	**no**
MOT	up	no	no	**no**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	down	no	**no**
VT	up	no	up	**up**
ZNT	no	no	no	**no**
Total up				**6**
Total down				**5**
Total no				**24**
Total				**35**

Crabbe's River- NF02ZA0007
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	down	no	**no**
TURB	up	up	up	**up**
O2D	no	down	no	**no**
PHL	up	up	up	**up**
CAD	no	no	no	**no**
NAD	no	down	no	**no**
MGD	no	no	no	**no**
KD	no	down	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	down	down	down	**down**
PT	no	no	no	**no**
NO3NO2	no	down	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	down	**no**
BAT	no	no	no	**no**
BET	up	-	up	**up**
CDT	no	no	no	**no**
COT	up	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	down	no	no	**no**
LIT	no	no	no	**no**
MNT	up	no	up	**up**
MOT	up	up	up	**up**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	down	down	**down**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**5**
Total down				**3**
Total no				**27**
Total				**35**

South Branch River- NF02ZA0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	down	**down**
COLORA	no	up	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	no	down	down	**down**
NAD	no	down	down	**down**
MGD	no	down	no	**no**
KD	no	down	down	**down**
SO4IC	no	down	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	no	no	no	**no**
BAT	no	down	no	**no**
BET	up	-	up	**up**
CDT	no	no	no	**no**
COT	no	up	no	**no**
CRT	no	no	no	**no**
CUT	down	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	up	up	up	**up**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	down	no	down	**down**
SET	no	no	no	**no**
SRT	no	down	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**3**
Total down				**6**
Total no				**26**
Total				**35**

Grand Codroy River- NF02ZA0006
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	no	no	**no**
TURB	up	up	up	**up**
O2D	no	no	no	**no**
PHL	no	no	no	**no**
CAD	down	down	down	**down**
NAD	down	down	down	**down**
MGD	no	down	down	**down**
KD	down	down	down	**down**
SO4IC	down	down	down	**down**
CLD	no	down	down	**down**
DOC	no	no	no	**no**
PT	no	down	no	**no**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	up	up	up	**up**
ALT	no	no	no	**no**
AST	no	down	down	**down**
BAT	down	down	down	**down**
BET	no	no	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	down	down	down	**down**
FET	no	no	no	**no**
HGT	no	no	no	**no**
LIT	no	no	no	**no**
MNT	no	down	no	**no**
MOT	up	up	up	**up**
NIT	up	no	up	**up**
PBT	down	down	down	**down**
SET	no	no	no	**no**
SRT	down	down	down	**down**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**4**
Total down				**12**
Total no				**19**
Total				**35**

Isle aux Mort River- NF02ZB0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	down	down	**down**
COLORA	no	no	no	**no**
TURB	down	down	down	**down**
O2D	-	-	-	-
PHL	no	no	no	**no**
CAD	no	down	down	**down**
NAD	no	no	no	**no**
MGD	no	down	down	**down**
KD	no	no	no	**no**
SO4IC	no	no	down	**no**
CLD	no	no	no	**no**
FD	-	-	no	**no**
DOC	no	no	no	**no**
PT	up	no	up	**up**
NO3NO2	no	no	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	-	-	-	-
AST	-	-	-	-
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**1**
Total down				**4**
Total no				**11**
Total				**16**

Cing Cerf Brook- NF02ZB0005
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	no	no	**no**
COLORA	no	no	no	**no**
TURB	up	no	up	**up**
O2D	no	down	down	**down**
PHL	no	no	no	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	no	no	no	**no**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	up	up	**up**
NO3NO2	no	down	no	**no**
NT	no	no	no	**no**
SID	no	no	no	**no**
ALT	no	no	no	**no**
AST	down	down	down	**down**
BAT	no	no	no	**no**
BET	no	no	no	**no**
CDT	no	no	no	**no**
COT	no	no	no	**no**
CRT	no	no	no	**no**
CUT	no	no	no	**no**
FET	no	no	no	**no**
HGT	down	down	down	**down**
LIT	no	no	no	**no**
MNT	no	up	up	**up**
MOT	no	no	no	**no**
NIT	no	no	no	**no**
PBT	no	no	no	**no**
SET	no	no	no	**no**
SRT	no	no	no	**no**
VT	no	no	no	**no**
ZNT	no	no	no	**no**
Total up				**3**
Total down				**4**
Total no				**28**
Total				**35**

Grandy Brook- NF02ZC0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	no	up	up	**up**
TURB	no	no	no	**no**
O2D	-	-	-	-
PHL	no	no	down	**no**
CAD	no	no	no	**no**
NAD	no	no	no	**no**
MGD	down	down	down	**down**
KD	no	no	no	**no**
SO4IC	no	no	no	**no**
CLD	no	no	no	**no**
FD	no	down	down	**down**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	no	down	**no**
NT	no	no	no	**no**
SID	no	down	no	**no**
ALT	no	-	-	**no**
AST	down	down	down	**down**
BAT	down	-	-	**down**
BET	up	-	-	**up**
CDT	up	-	-	**up**
COT	no	-	-	**no**
CRT	no	-	-	**no**
CUT	no	-	-	**no**
FET	no	-	-	**no**
HGT	-	-	-	-
LIT	no	-	-	**no**
MNT	no	-	-	**no**
MOT	no	-	-	**no**
NIT	no	-	-	**no**
PBT	no	-	-	**no**
SET	no	-	-	**no**
SRT	no	-	-	**no**
VT	no	-	-	**no**
ZNT	no	-	-	**no**
Total up				**3**
Total down				**5**
Total no				**26**
Total				**34**

White Bear River- NF02ZC0011
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	up	-	up	**up**
O2D	no	-	down	**down**
PHL	no	-	no	**no**
CAD	no	-	no	**no**
NAD	no	-	no	**no**
MGD	no	-	no	**no**
KD	down	-	down	**down**
SO4IC	no	-	no	**no**
CLD	no	-	no	**no**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	no	-	down	**down**
NT	no	-	no	**no**
SID	no	-	no	**no**
ALT	no	-	no	**no**
AST	down	-	down	**down**
BAT	no	-	no	**no**
BET	no	-	no	**no**
CDT	no	-	no	**no**
COT	no	-	up	**up**
CRT	no	-	up	**up**
CUT	no	-	no	**no**
FET	no	-	down	**down**
HGT	down	-	down	**down**
LIT	no	-	no	**no**
MNT	no	-	no	**no**
MOT	up	-	up	**up**
NIT	no	-	no	**no**
PBT	no	-	no	**no**
SET	no	-	down	**down**
SRT	no	-	no	**no**
VT	no	-	no	**no**
ZNT	no	-	no	**no**
Total up				**4**
Total down				**7**
Total no				**24**
Total				**35**

Grey River- NF02ZD0003
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	down	down	down	**down**
COLORA	up	no	up	**up**
TURB	no	no	no	**no**
O2D	-	-	-	-
PHL	no	no	no	**no**
CAD	no	no	down	**no**
NAD	no	down	down	**down**
MGD	down	down	down	**down**
KD	down	down	down	**down**
SO4IC	no	no	no	**no**
CLD	no	down	down	**down**
FD	no	no	no	**no**
DOC	no	no	no	**no**
PT	no	no	no	**no**
NO3NO2	no	down	no	**no**
NT	no	down	no	**no**
SID	no	no	no	**no**
ALT	-	-	-	-
AST	down	down	down	**down**
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**1**
Total down				**6**
Total no				**10**
Total				**17**

Churchill Falls- NF03OE0001
Overall Trend for Individual Agreement Water Quality Parameters

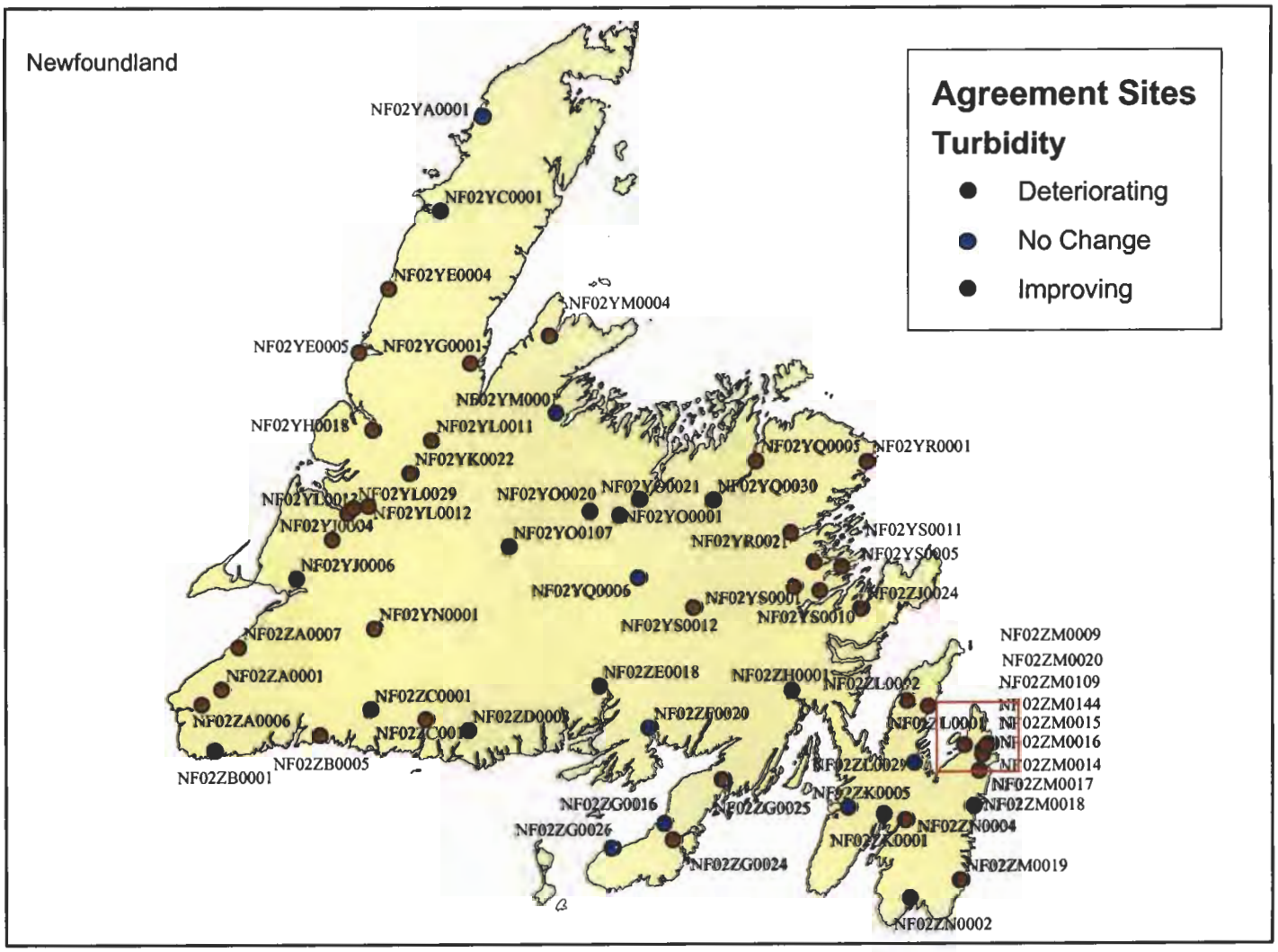
	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	up	**up**
TURB	no	-	no	**no**
O2D	-	-	-	-
PHL	no	-	no	**no**
CAD	no	-	no	**no**
NAD	no	-	no	**no**
MGD	no	-	no	**no**
KD	up	-	up	**up**
SO4IC	no	-	down	**down**
CLD	no	-	no	**no**
FD	-	-	no	**no**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	no	-	no	**no**
NT	up	-	up	**up**
SID	no	-	no	**no**
ALT	-	-	-	-
AST	-	-	-	-
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**3**
Total down				**1**
Total no				**12**
Total				**16**

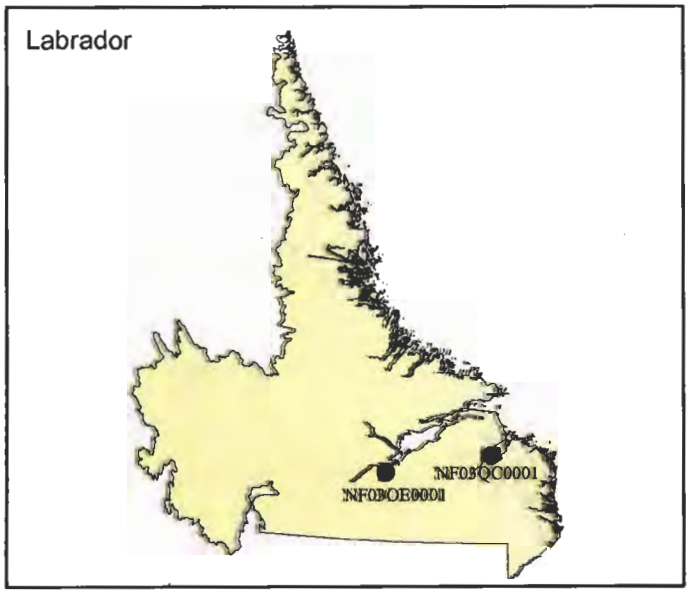
Eagle River- NF03QC0001
Overall Trend for Individual Agreement Water Quality Parameters

	Total Spearman Trend	Monthly Spearman Trend	Moving Average Trend	*Overall Trend*
CONDL	no	-	no	**no**
COLORA	no	-	no	**no**
TURB	down	-	down	**down**
O2D	-	-	-	-
PHL	no	-	no	**no**
CAD	no	-	no	**no**
NAD	no	-	no	**no**
MGD	no	-	no	**no**
KD	no	-	no	**no**
SO4IC	no	-	down	**down**
CLD	no	-	down	**down**
FD	-	-	no	**no**
DOC	no	-	no	**no**
PT	no	-	no	**no**
NO3NO2	up	-	up	**up**
NT	up	-	up	**up**
SID	no	-	no	**no**
ALT	-	-	-	-
AST	-	-	no	no
BAT	-	-	-	-
BET	-	-	-	-
CDT	-	-	-	-
COT	-	-	-	-
CRT	-	-	-	-
CUT	-	-	-	-
FET	-	-	-	-
HGT	-	-	-	-
LIT	-	-	-	-
MNT	-	-	-	-
MOT	-	-	-	-
NIT	-	-	-	-
PBT	-	-	-	-
SET	-	-	-	-
SRT	-	-	-	-
VT	-	-	-	-
ZNT	-	-	-	-
Total up				**2**
Total down				**3**
Total no				**12**
Total				**17**

Appendix G:
Maps of Trends by Parameter

Figure 1: Trends in Turbidity in Canada-NL Water Quality Monitoring Agreement Sites





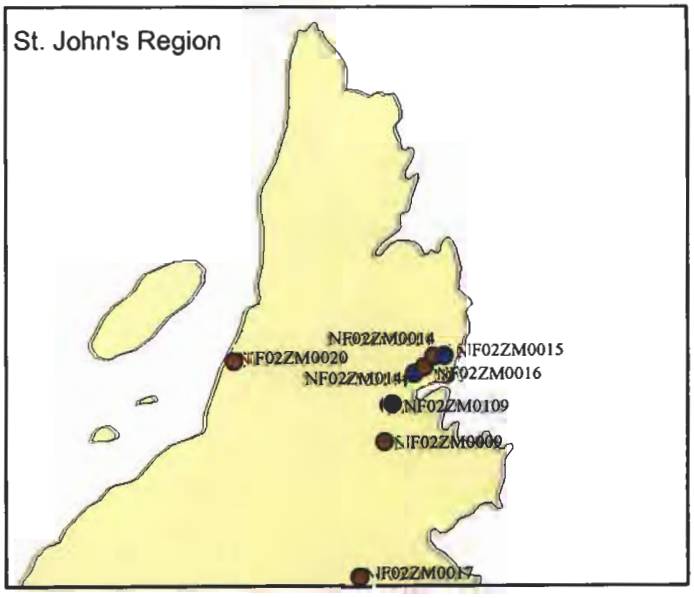


Figure 2: Trends in Colour in Canada-NL Water Quality Monitoring Agreement Sites

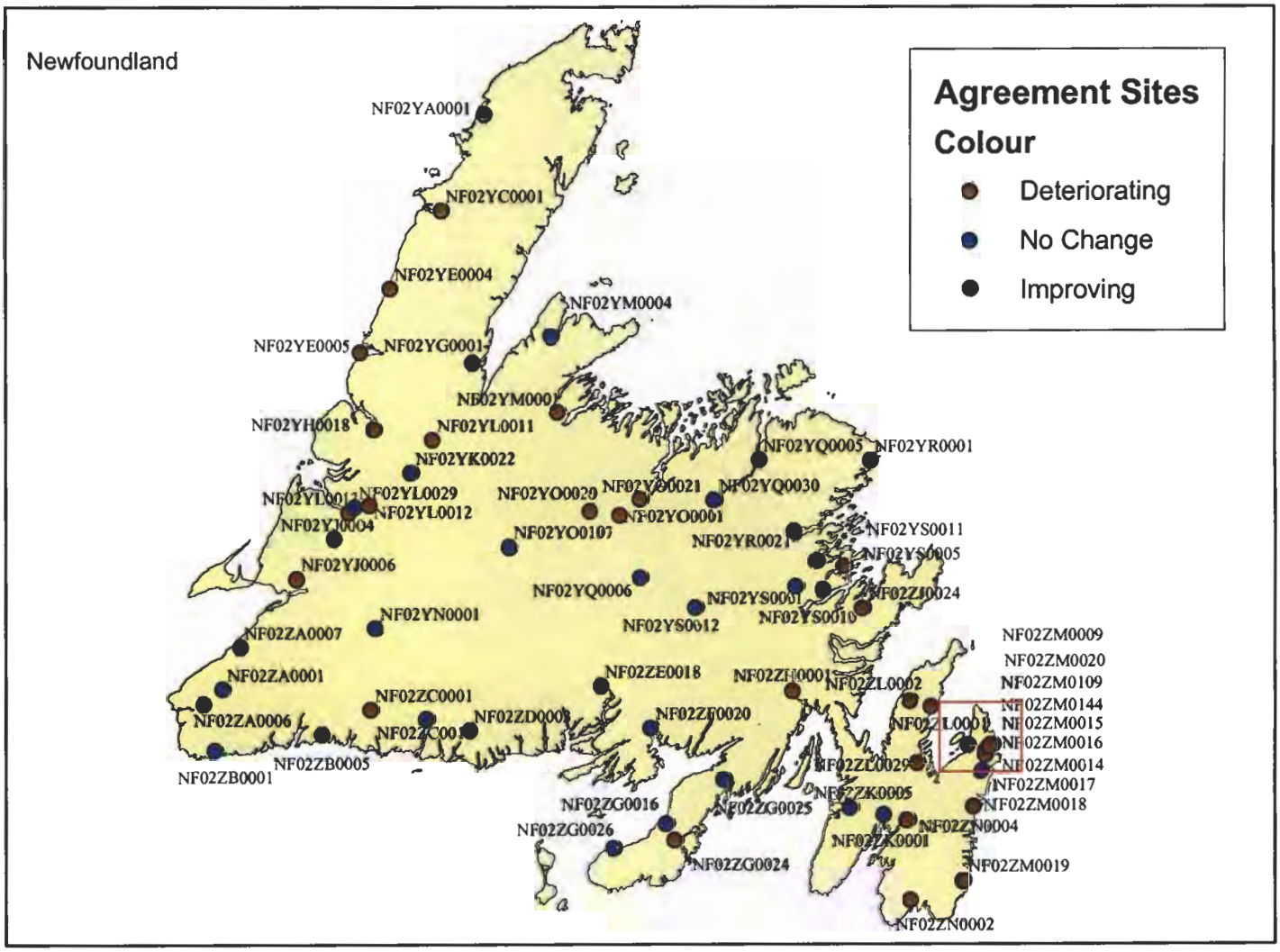
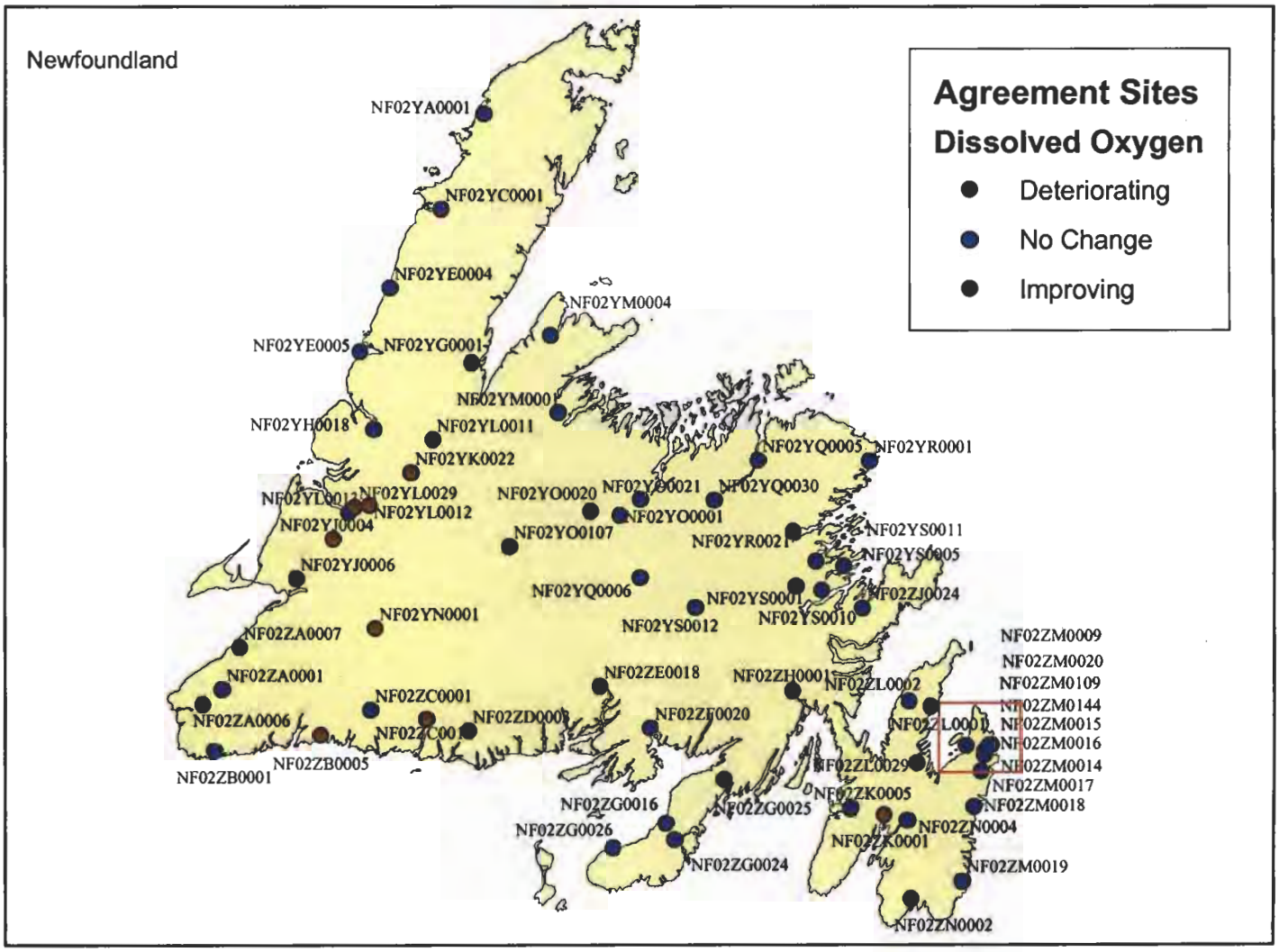
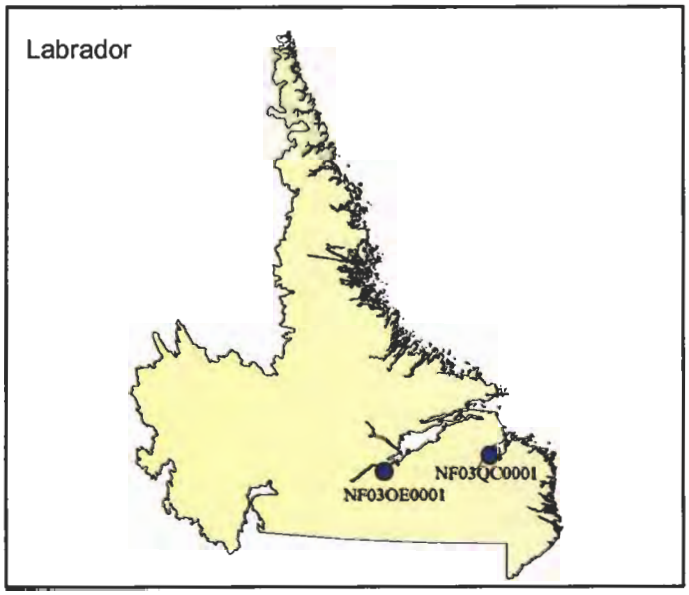


Figure 3: Trends in Dissolved Oxygen in Canada-NL Water Quality Monitoring Agreement Sites





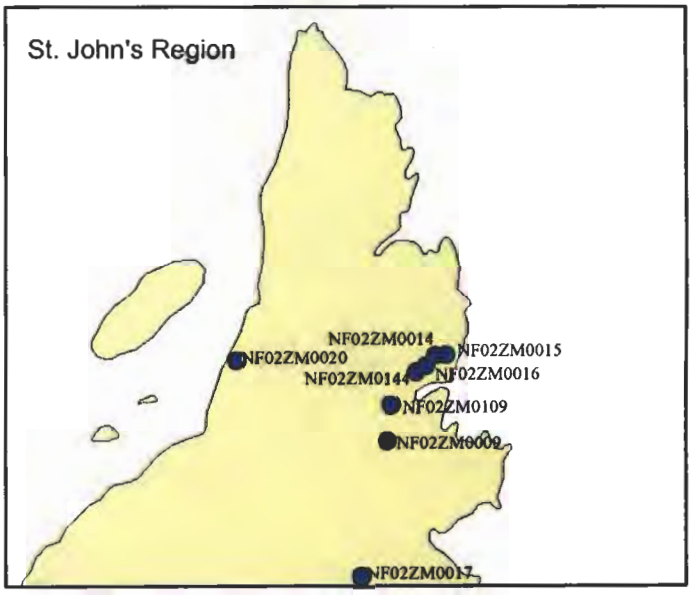
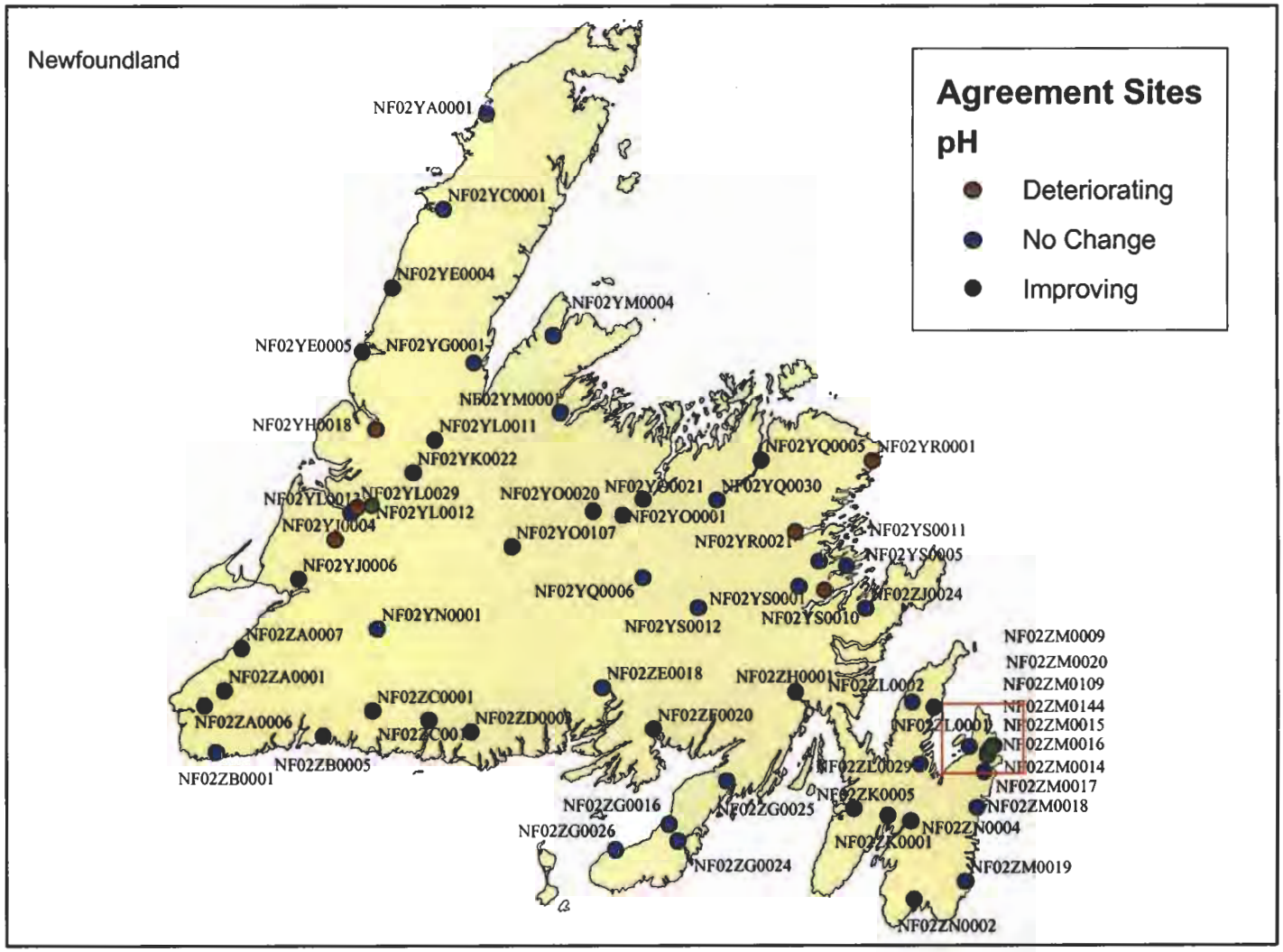
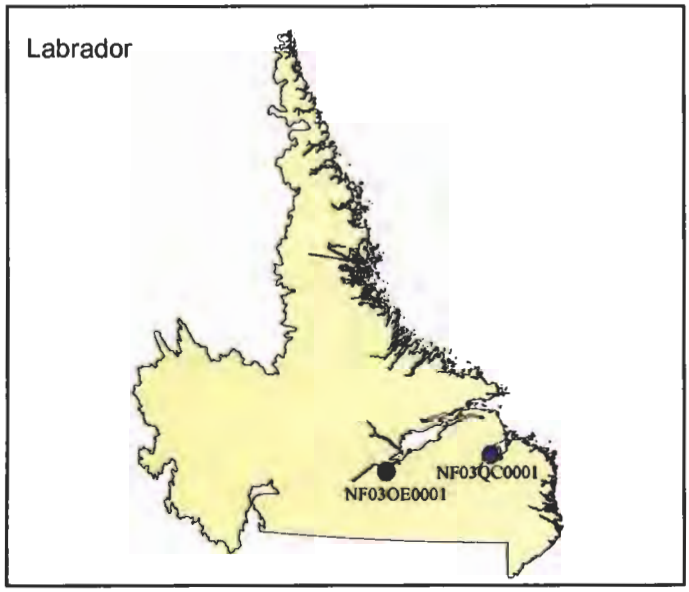


Figure 4: Trends in pH in Canada-NL Water Quality Monitoring Agreement Sites





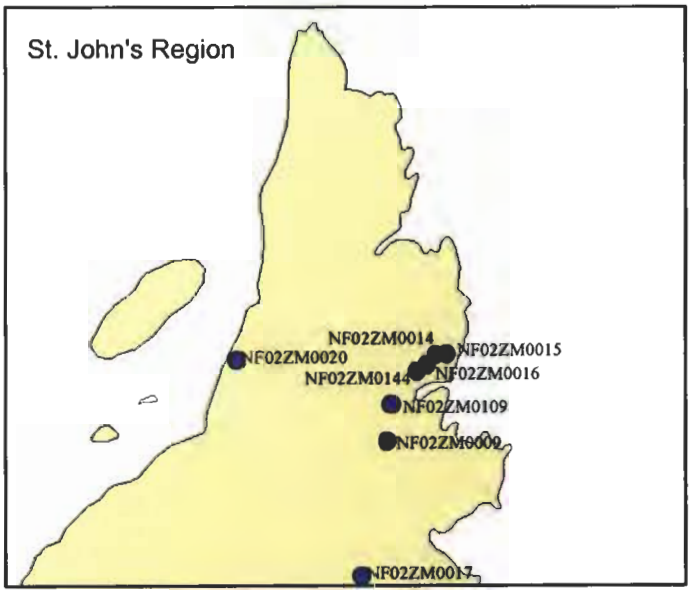
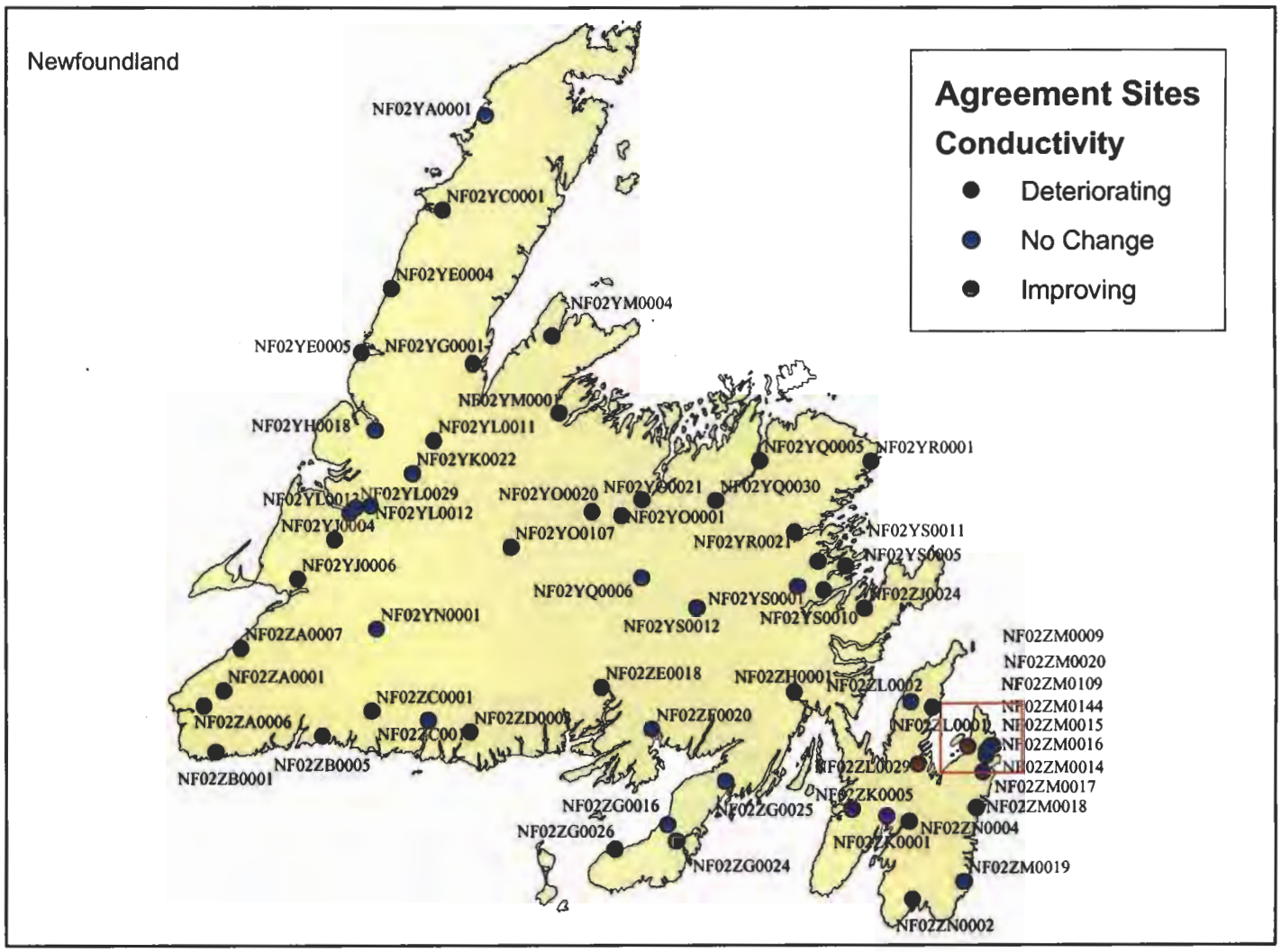
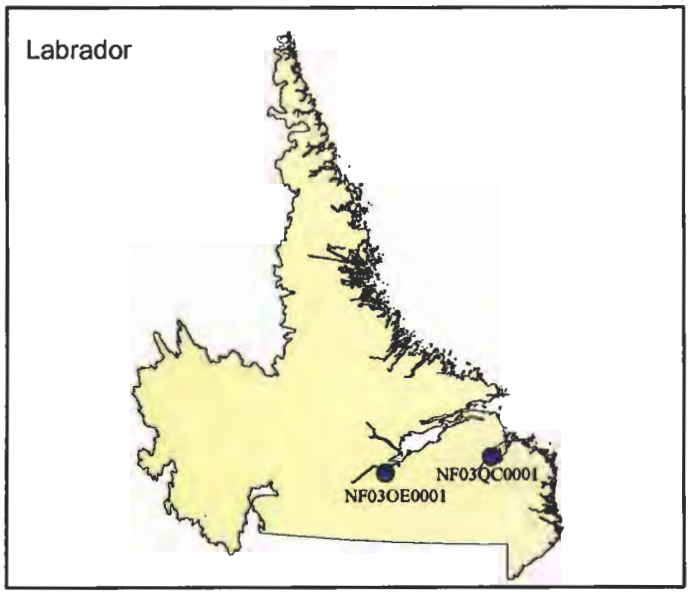


Figure 5: Trends in Conductivity in Canada-NL Water Quality Monitoring Agreement Sites





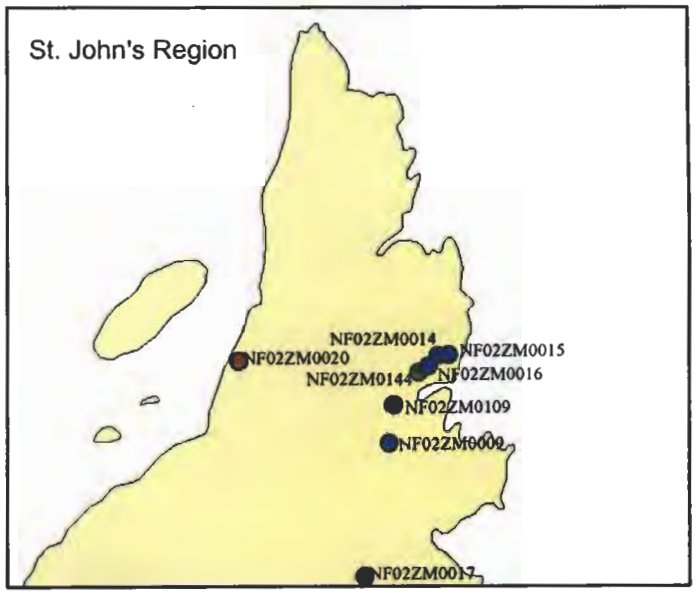
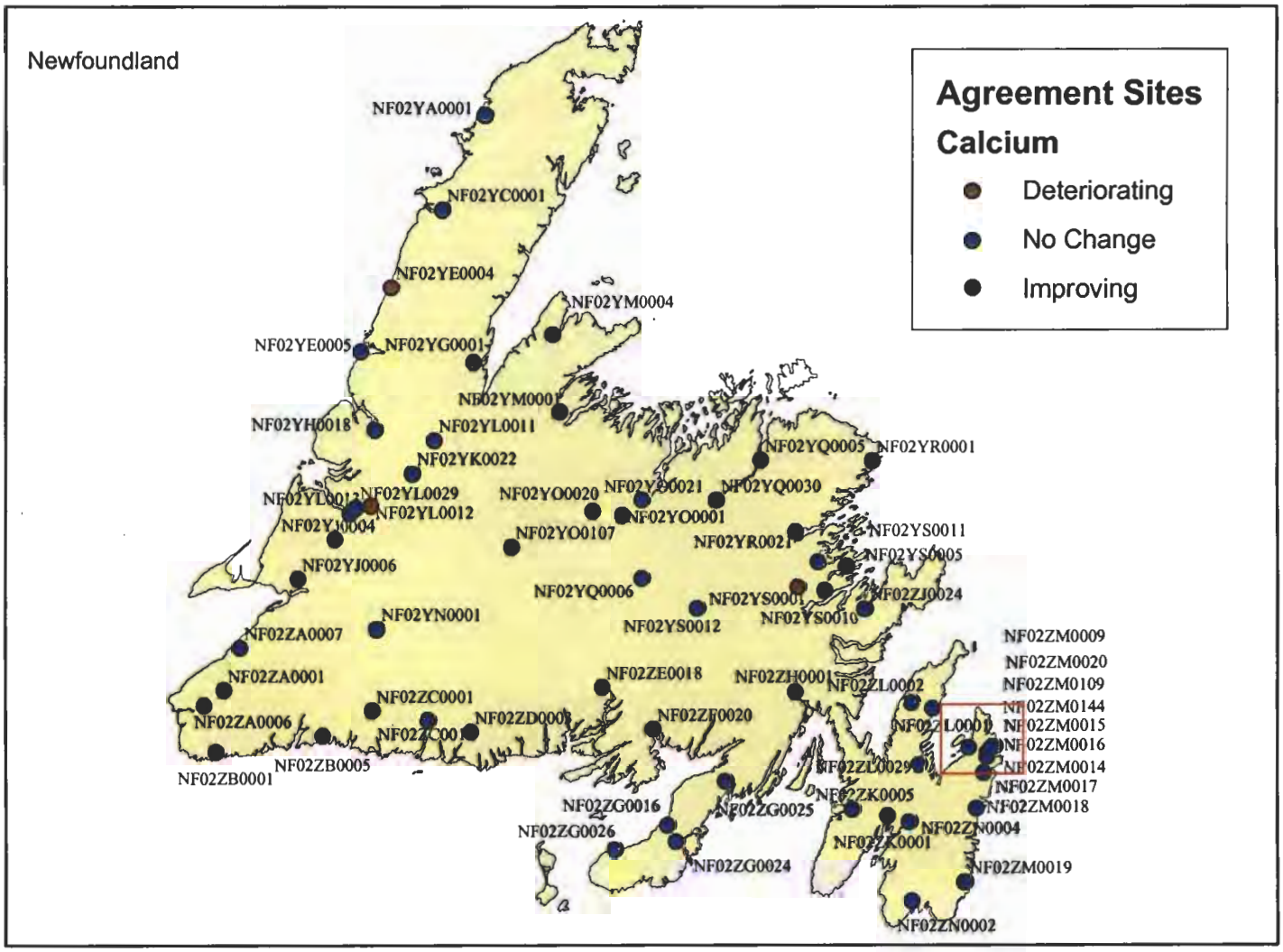
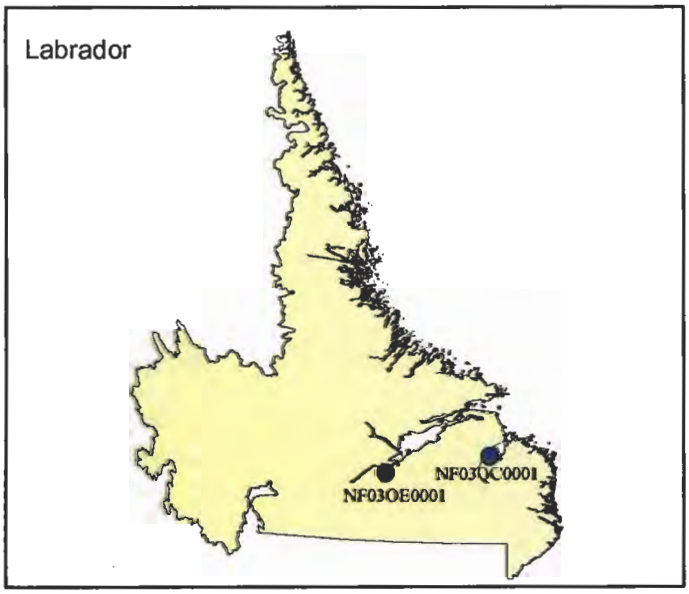


Figure 6: Trends in Calcium in Canada-NL Water Quality Monitoring Agreement Sites





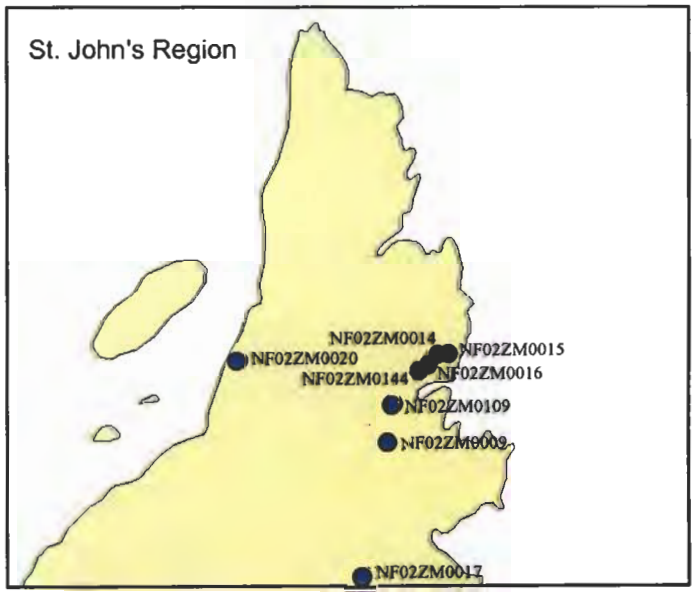
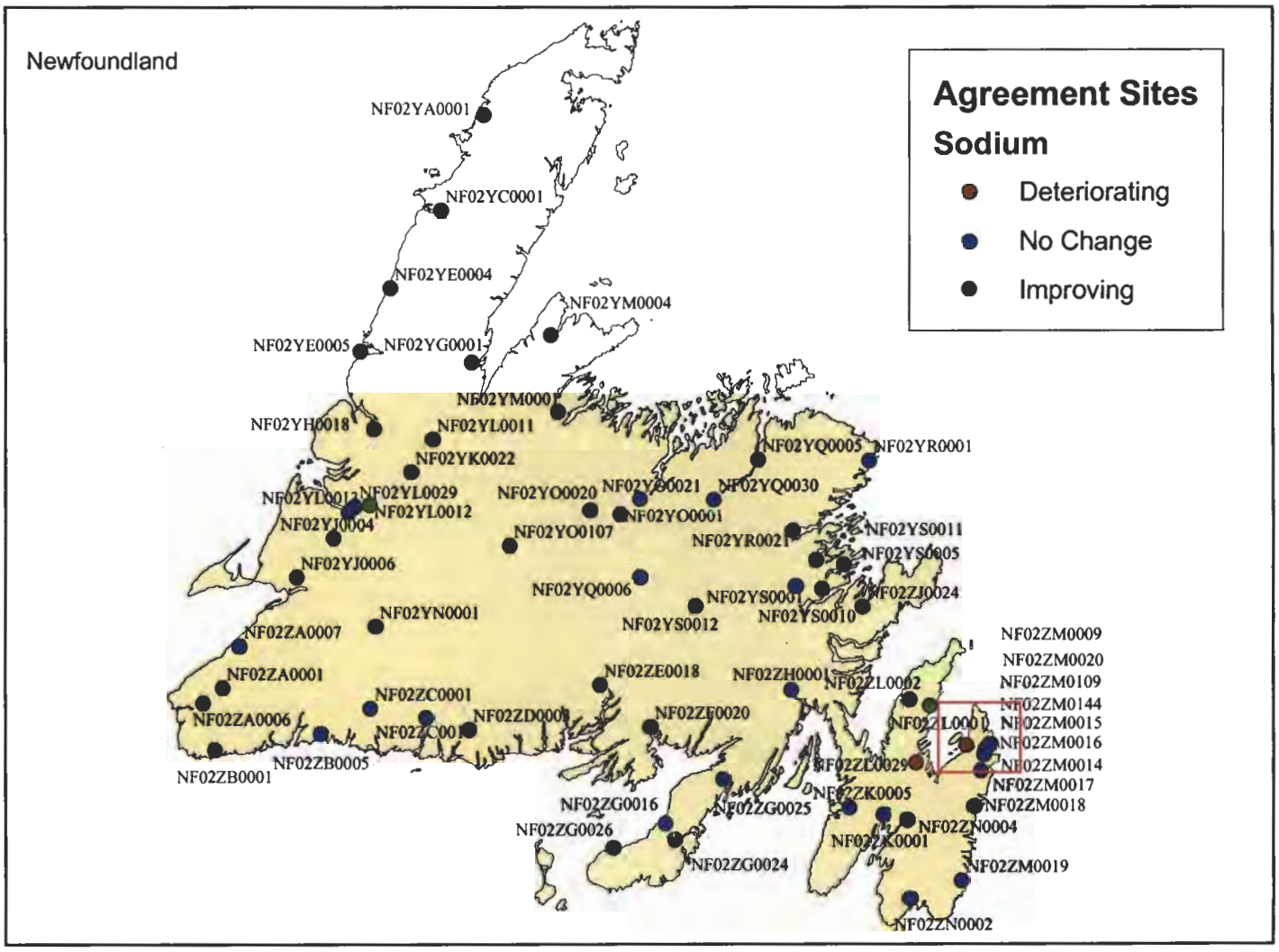
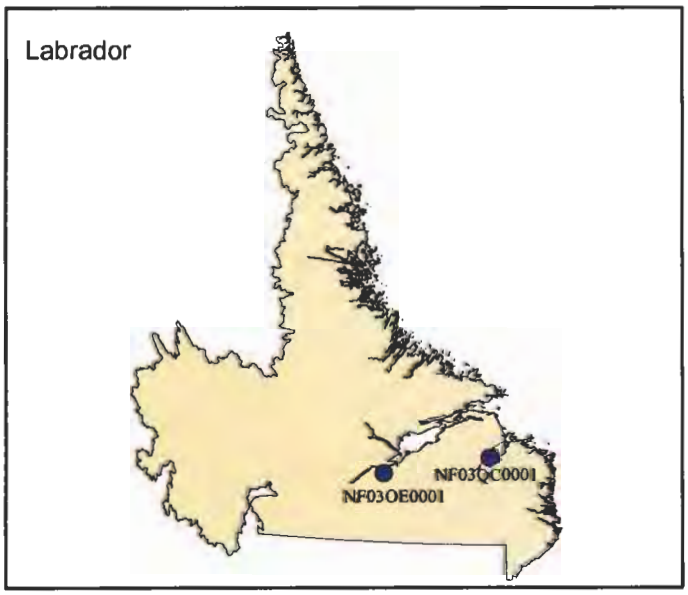


Figure 7: Trends in Sodium in Canada-NL Water Quality Monitoring Agreement Sites





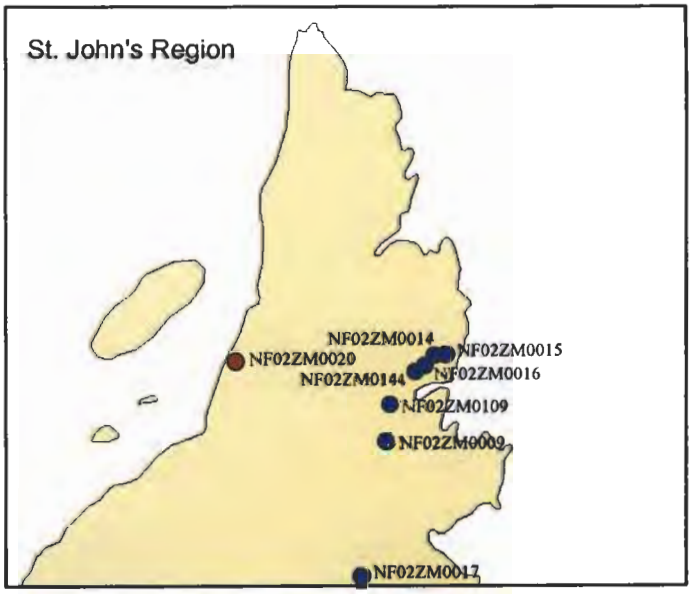
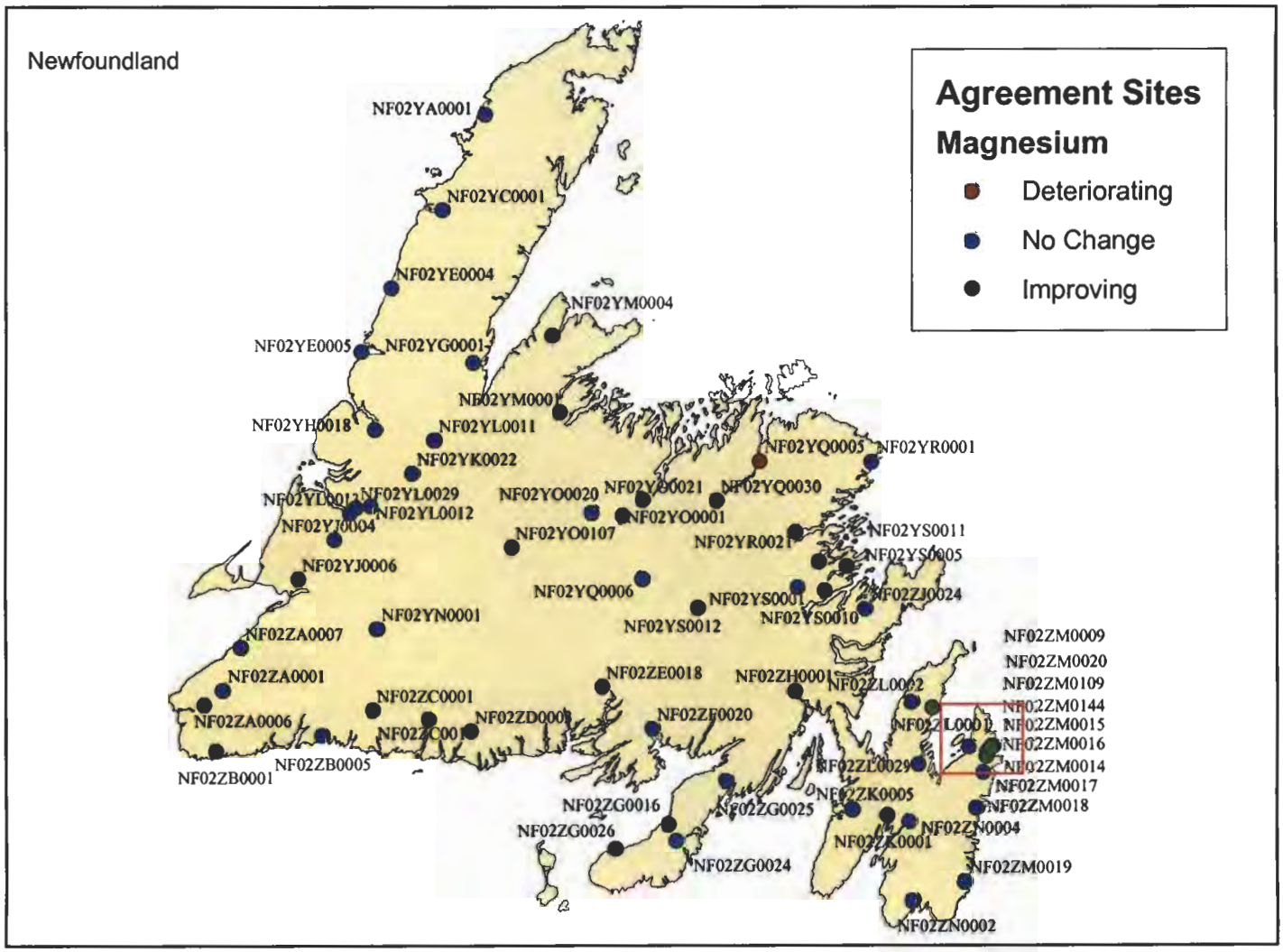
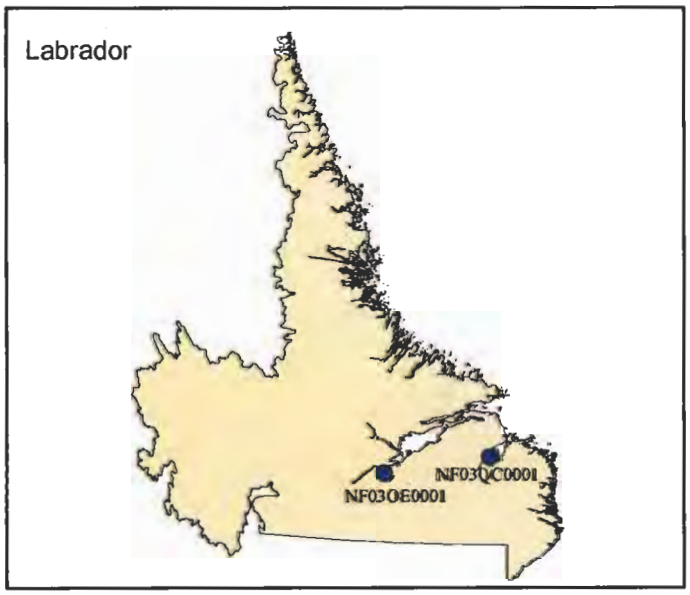


Figure 8: Trends in Magnesium in Canada-NL Water Quality Monitoring Agreement Sites





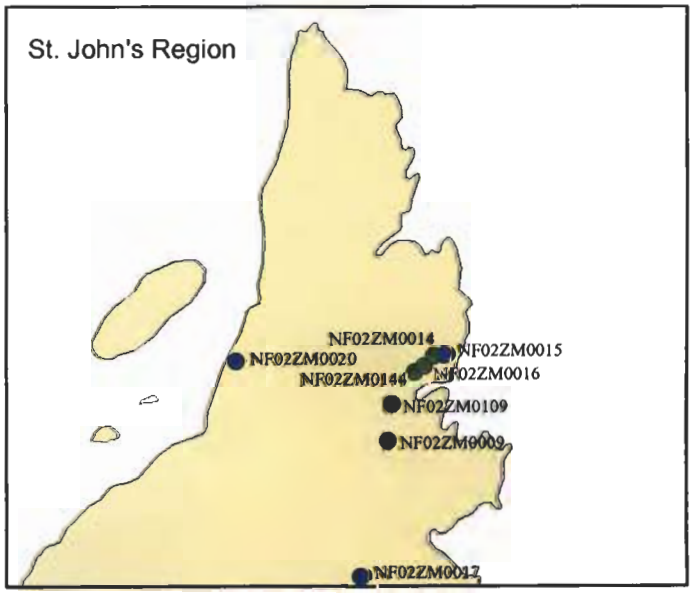
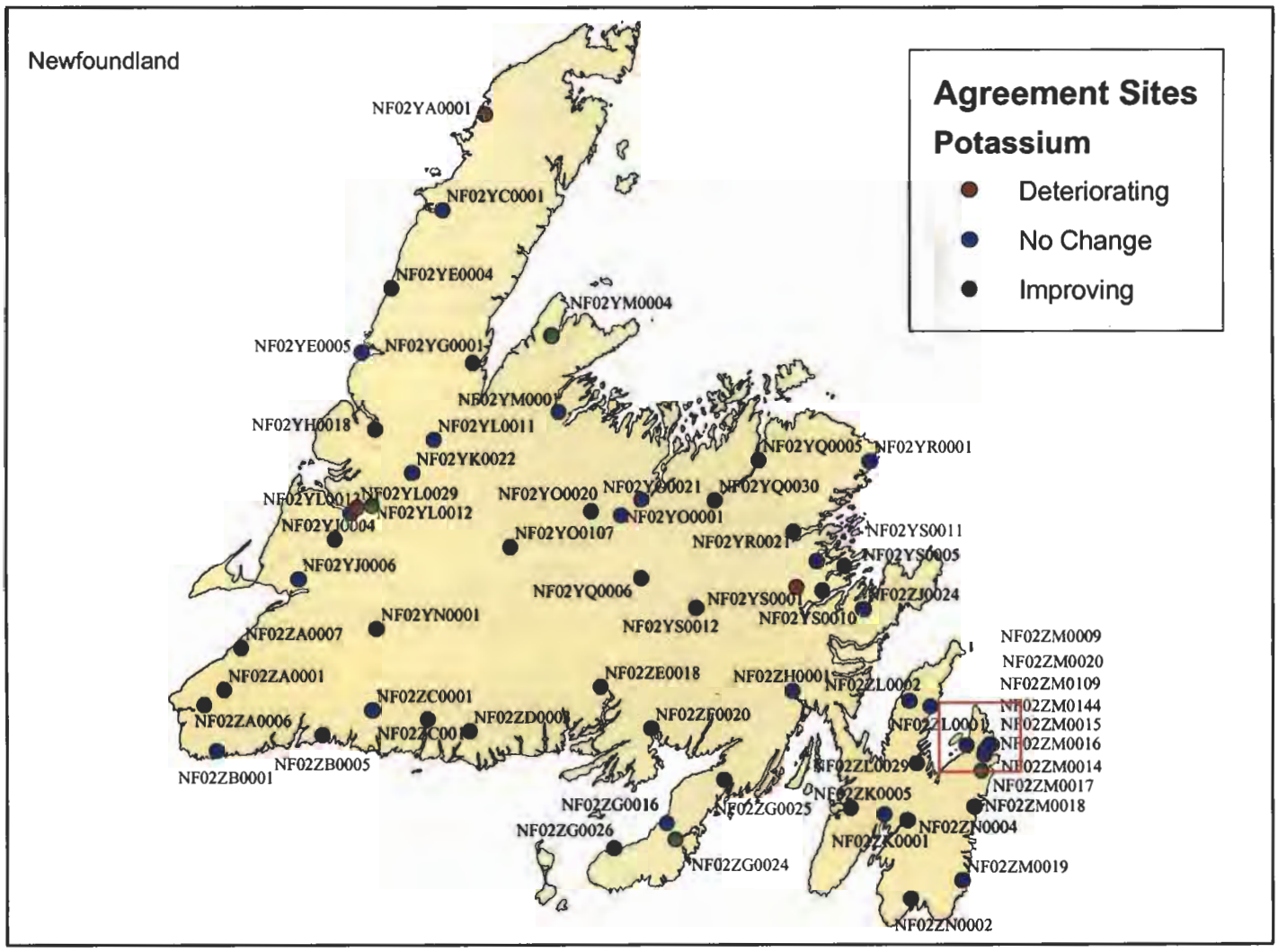
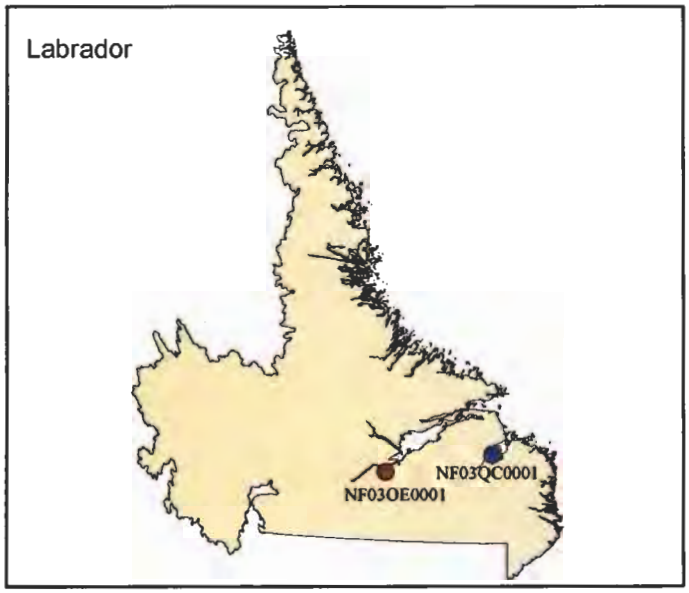


Figure 9: Trends in Potassium in Canada-NL Water Quality Monitoring Agreement Sites





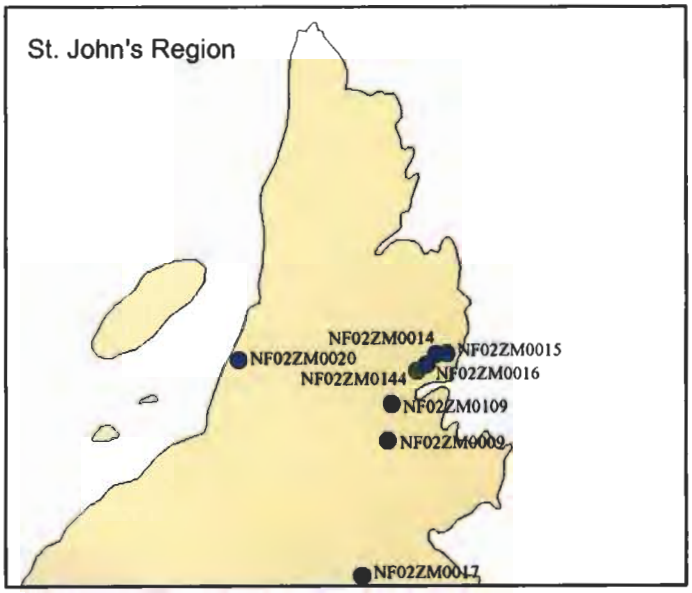


Figure 10: Trends in Sulphate in Canada-NL Water Quality Monitoring Agreement Sites

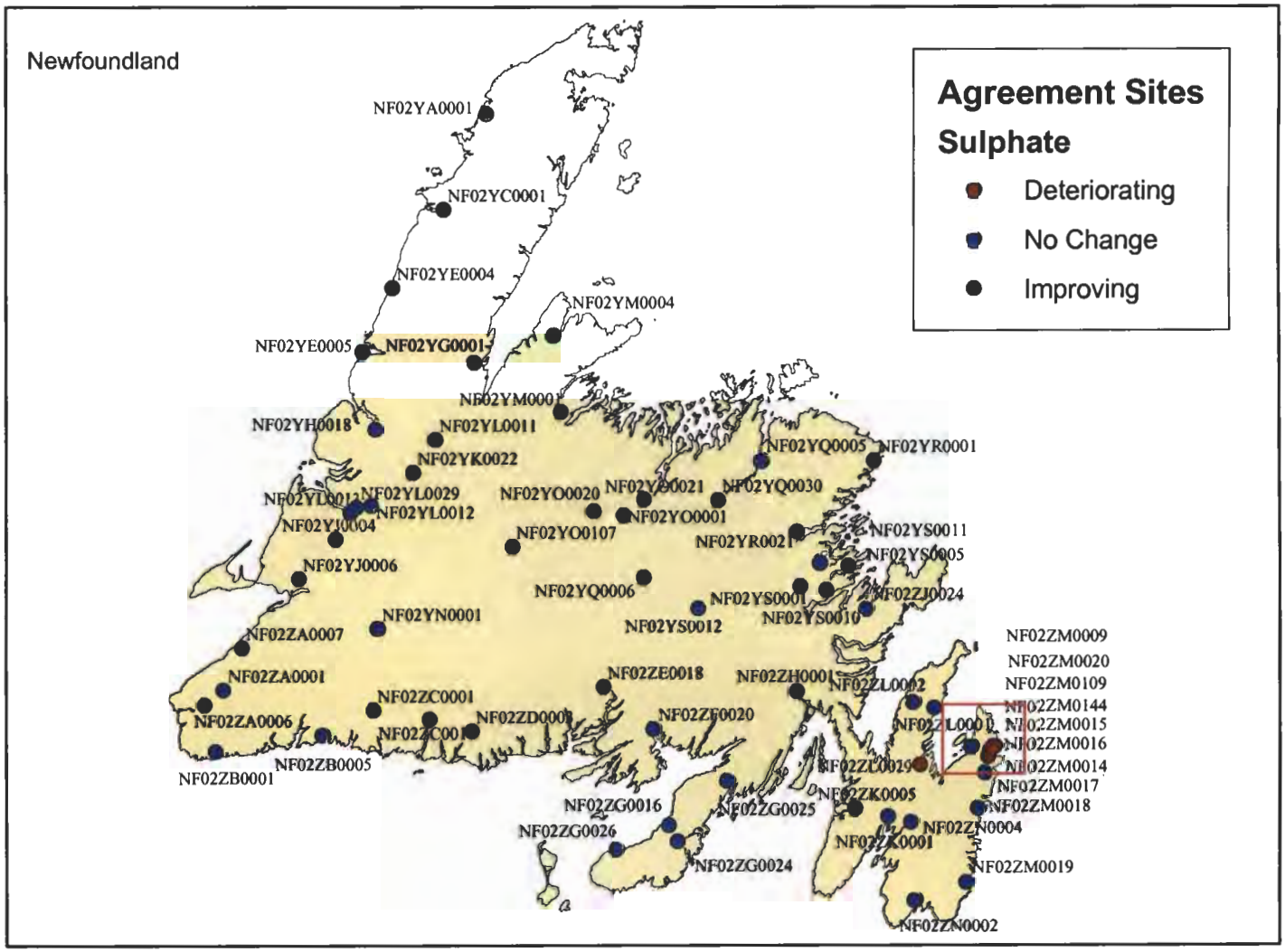
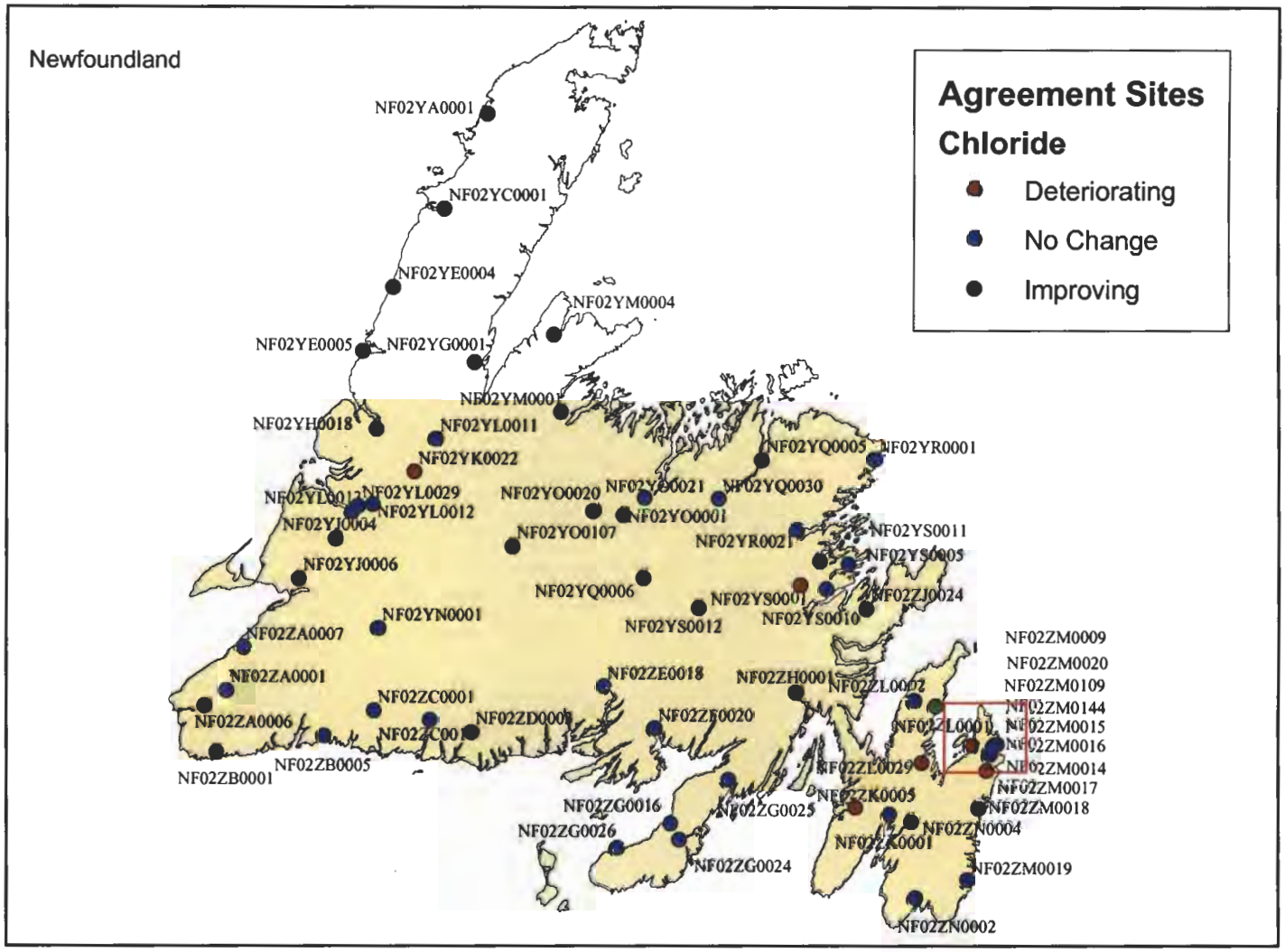


Figure 11: Trends in Chloride in Canada-NL Water Quality Monitoring Agreement Sites



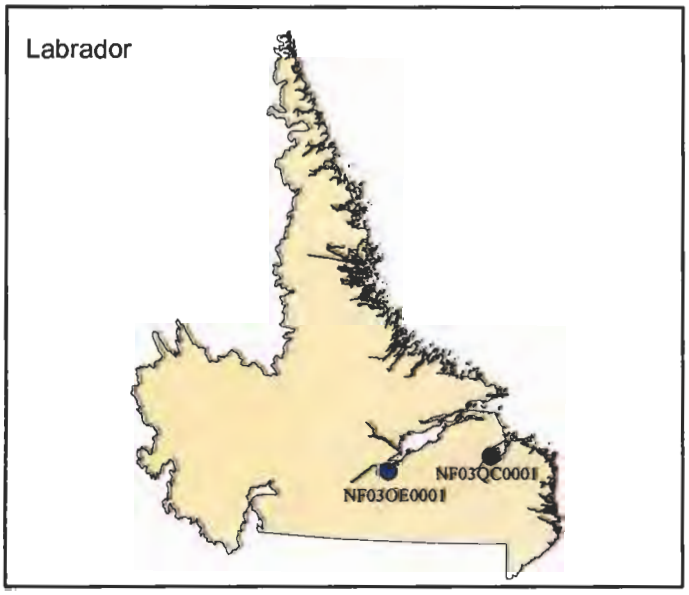


Figure 12: Trends in Nitrogen in Canada-NL Water Quality Monitoring Agreement Sites

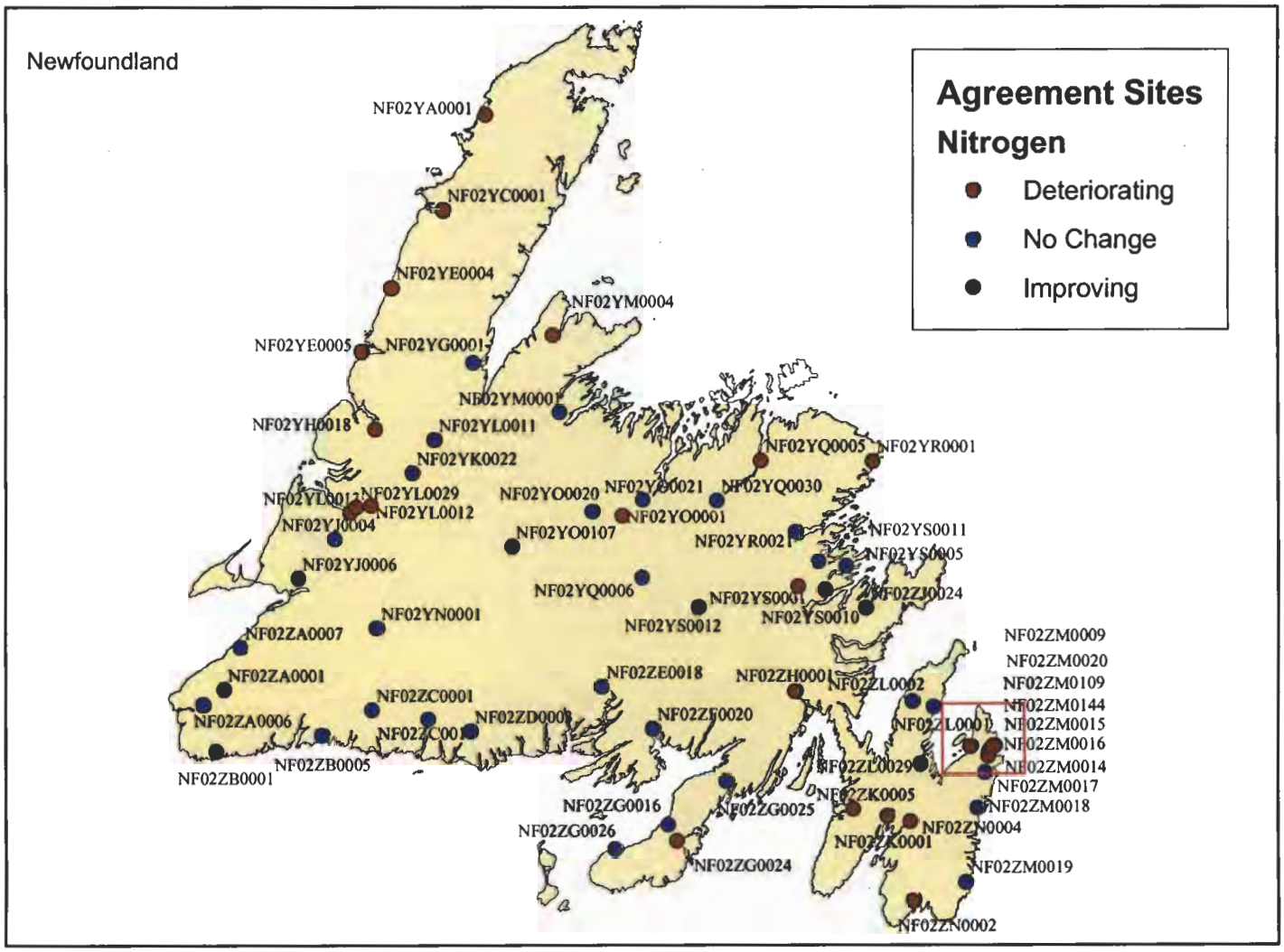
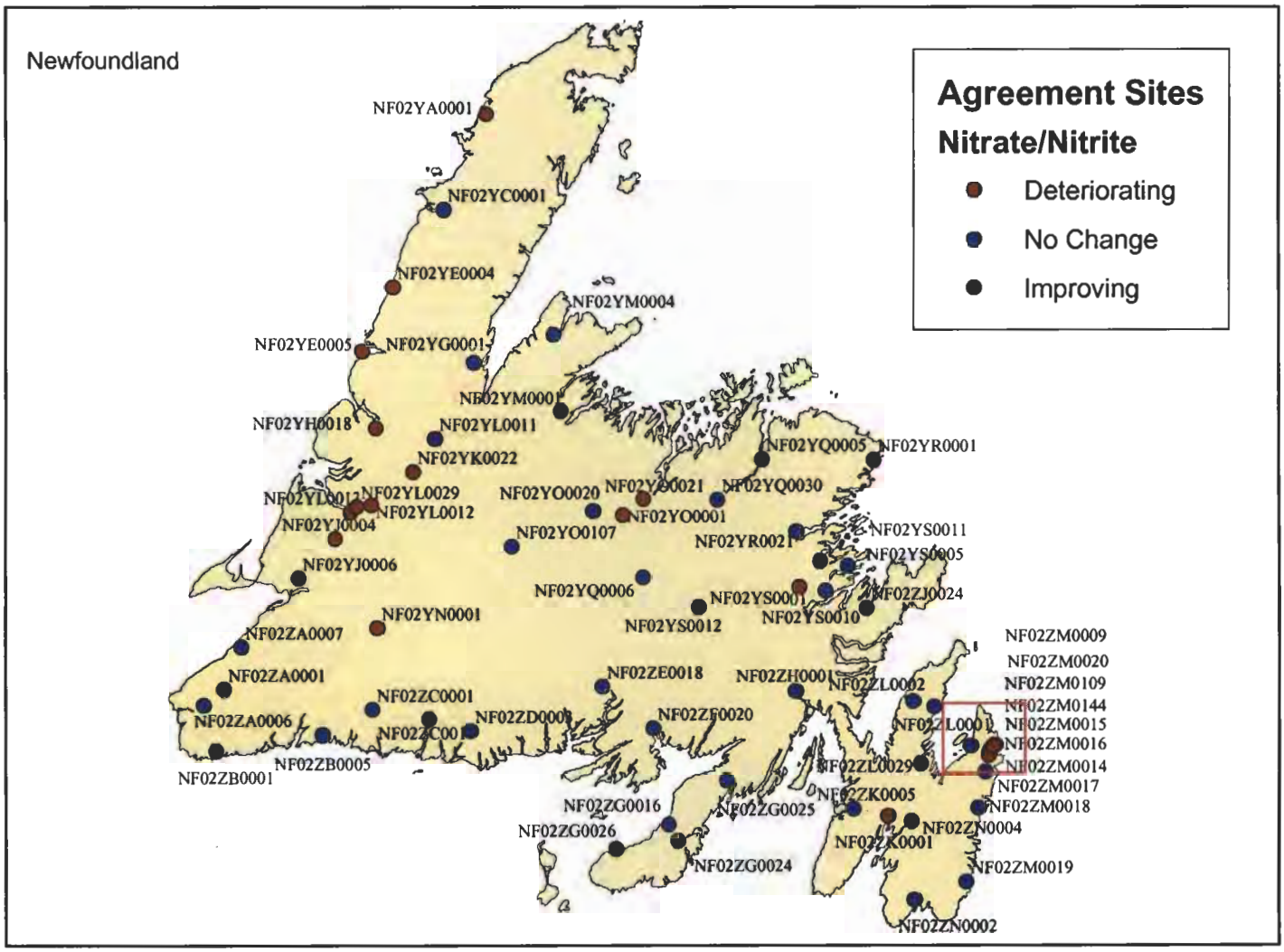
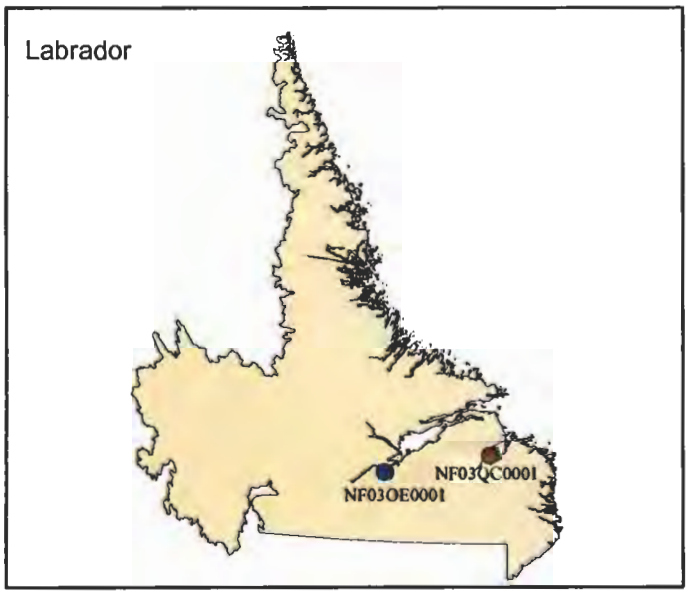


Figure 13: Trends in Nitrate/Nitrite in Canada-NL Water Quality Monitoring Agreement Sites





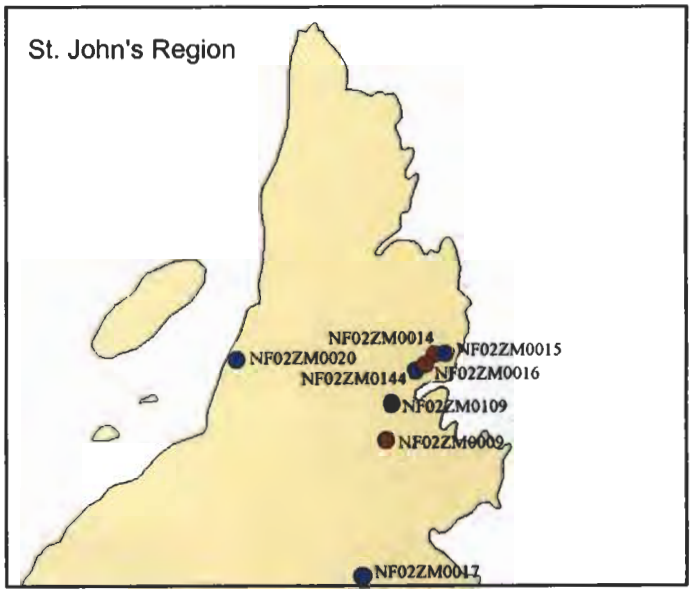
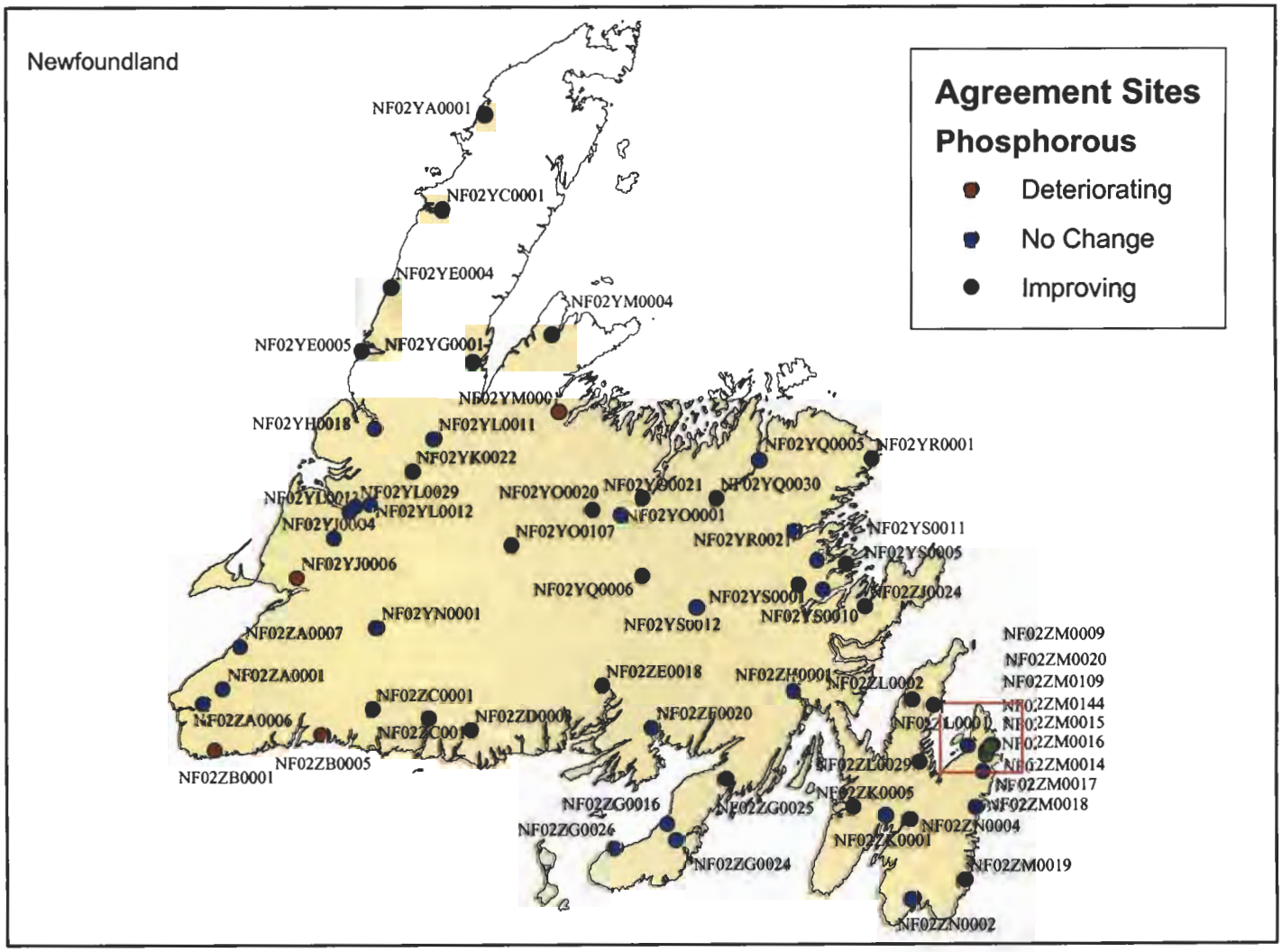
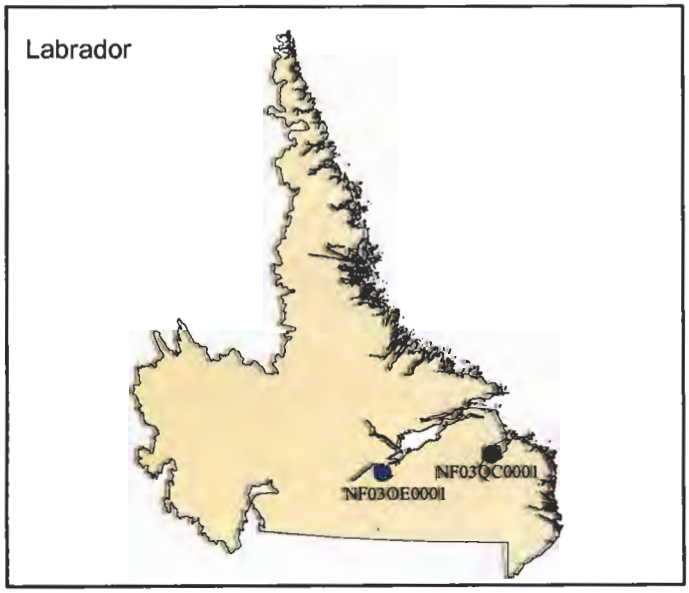


Figure 14: Trends in Phosphorous in Canada-NL Water Quality Monitoring Agreement Sites





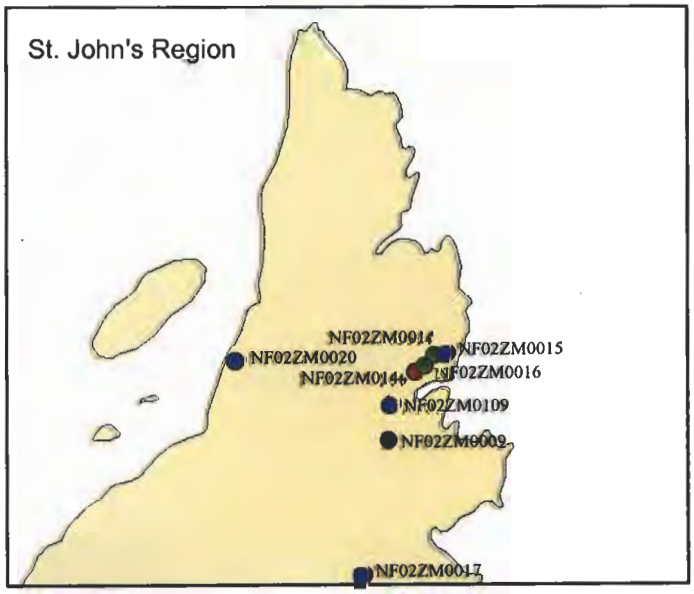
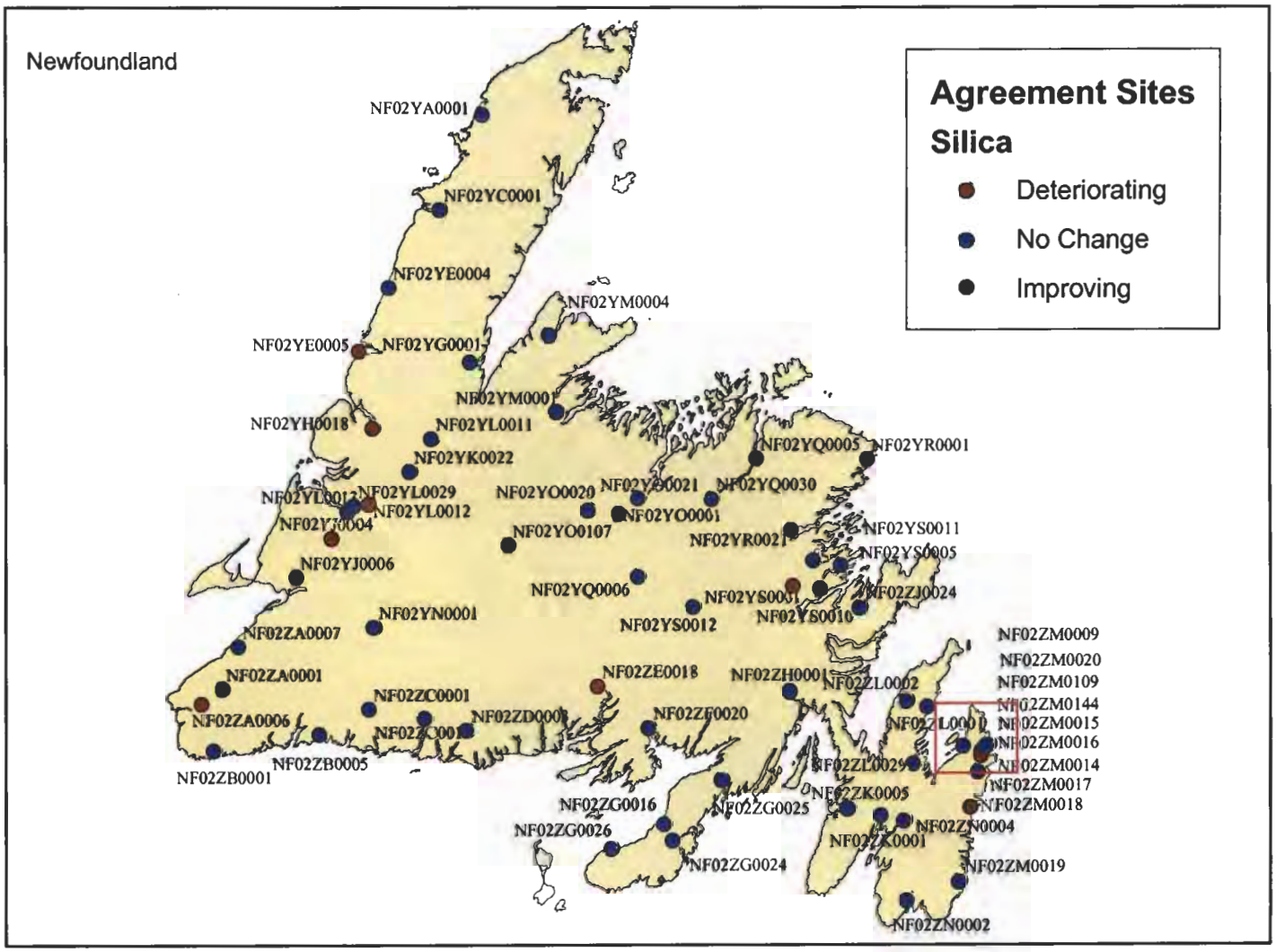


Figure 15: Trends in Silica in Canada-NL Water Quality Monitoring Agreement Sites



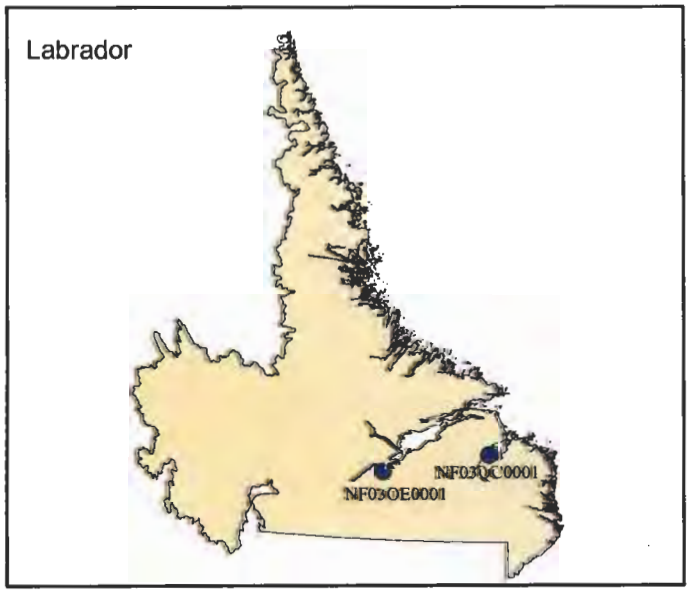


Figure 16: Trends in DOC in Canada-NL Water Quality Monitoring Agreement Sites

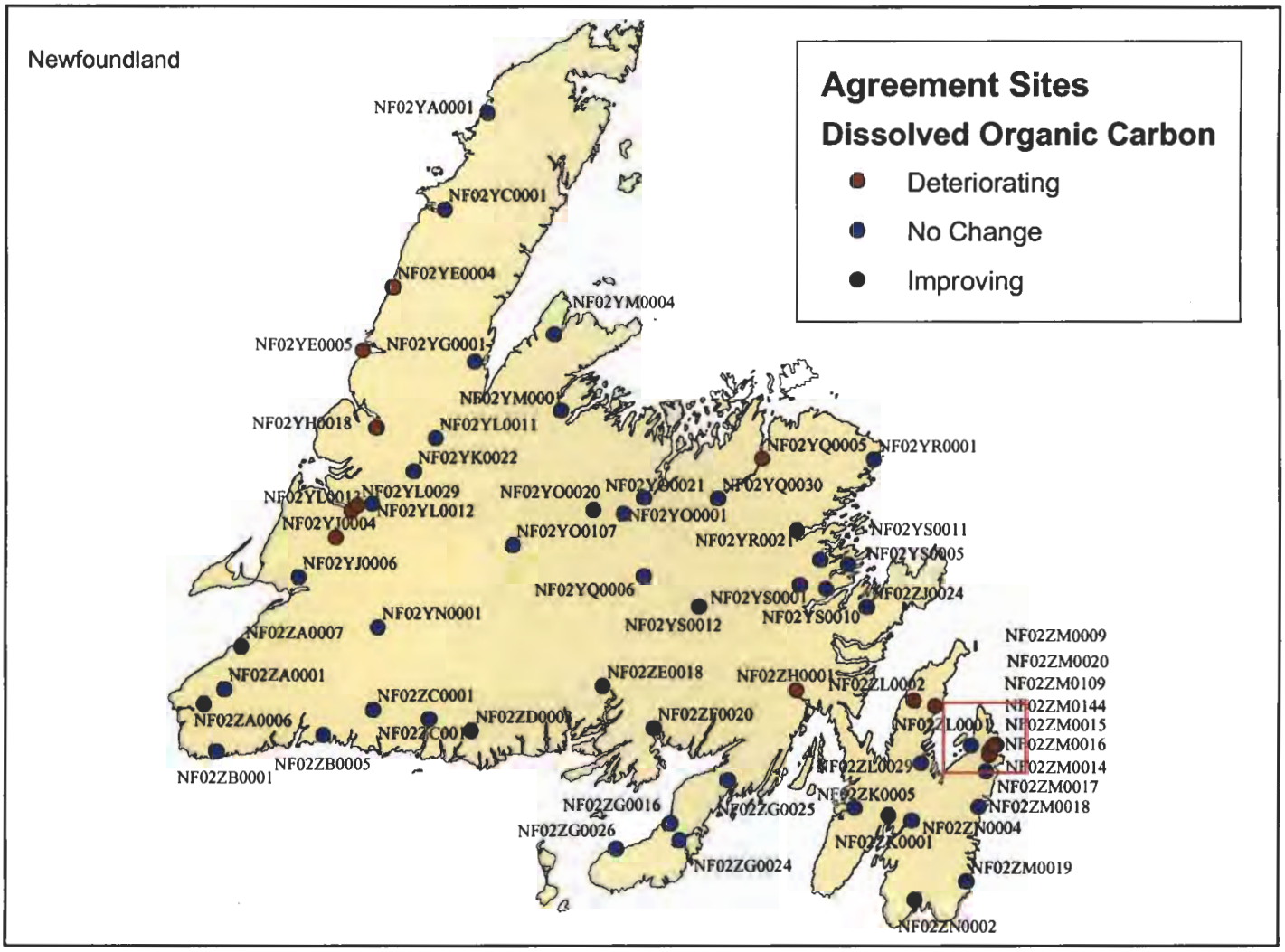
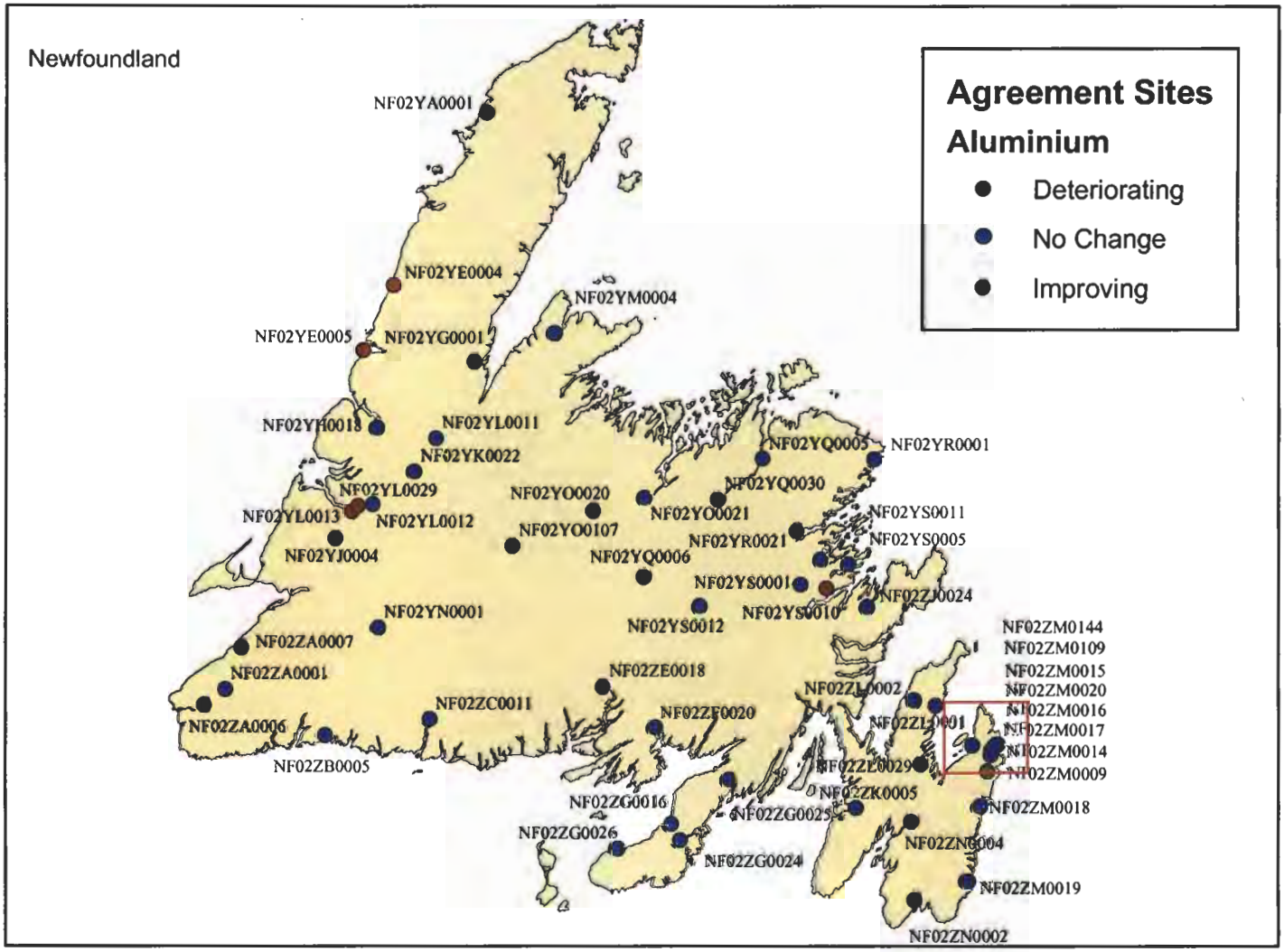
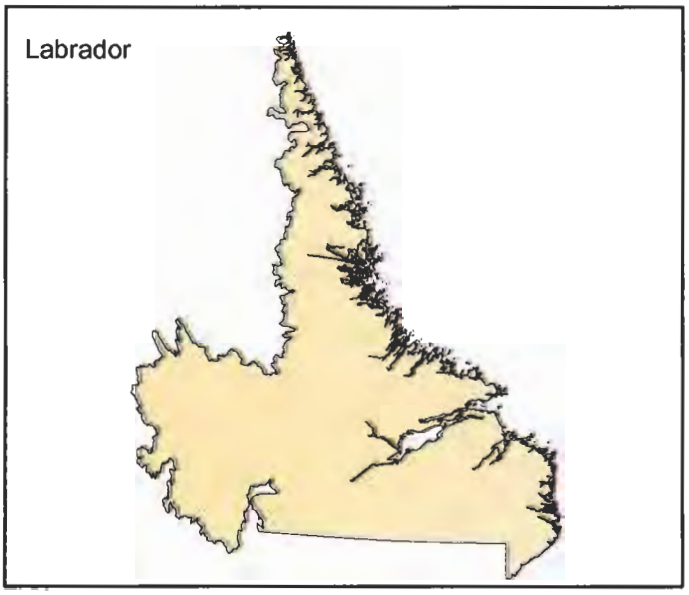


Figure 17: Trends in Aluminium in Canada-NL Water Quality Monitoring Agreement Sites





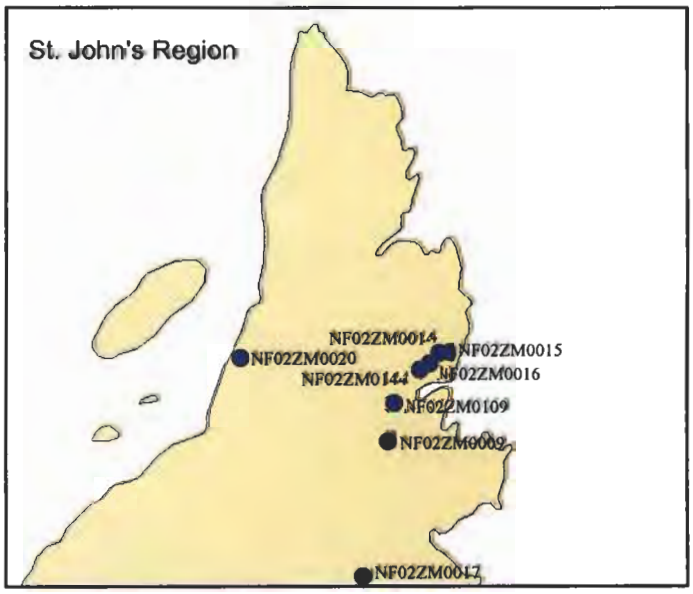
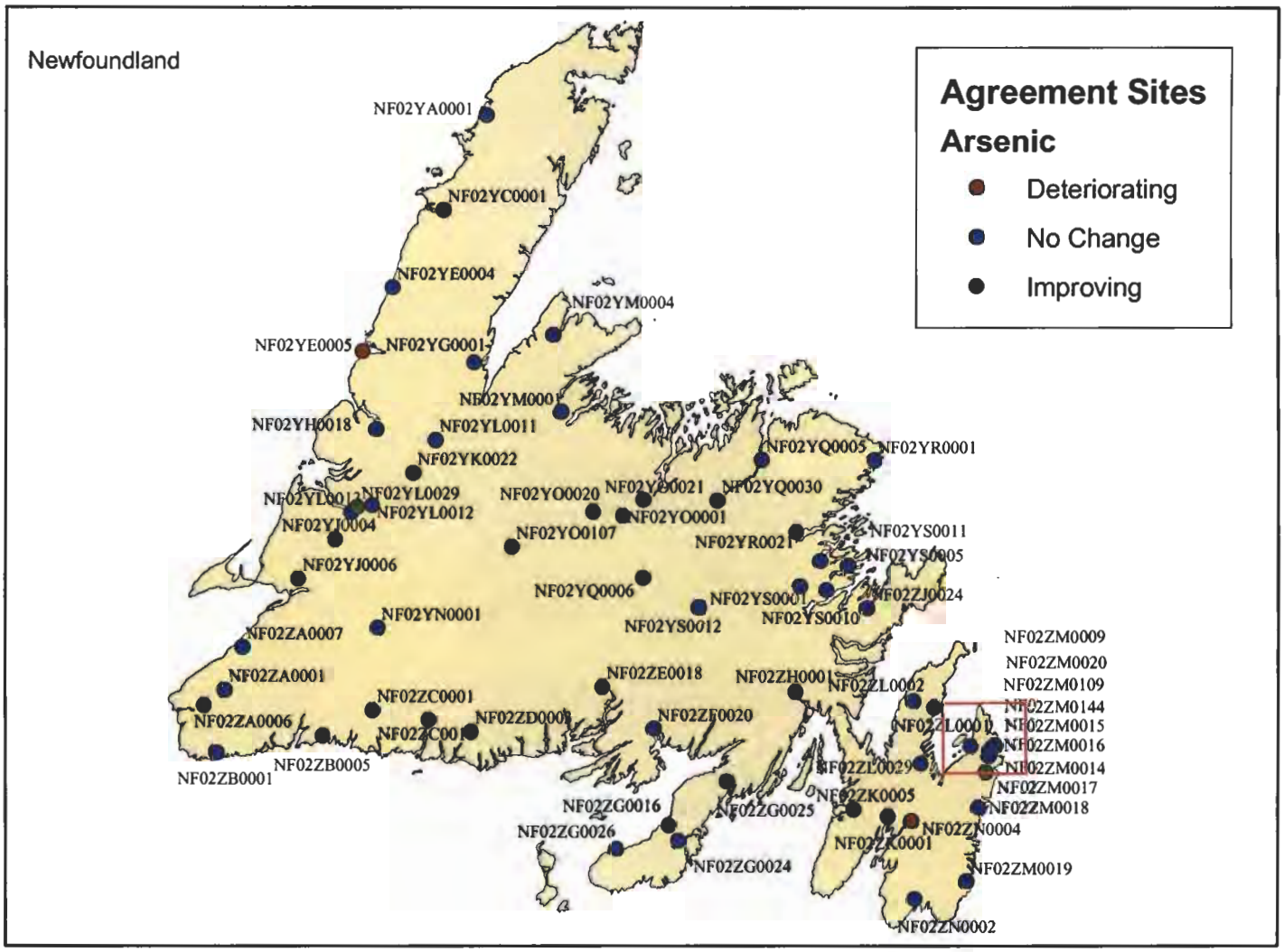
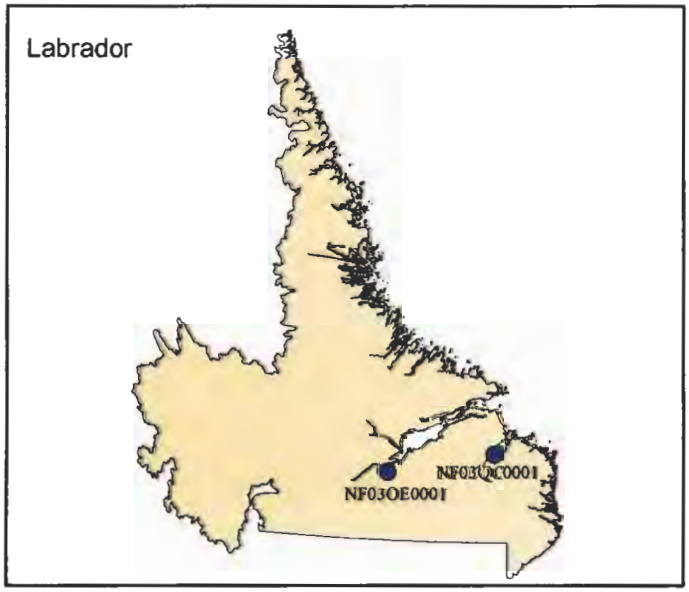


Figure 18: Trends in Arsenic in Canada-NL Water Quality Monitoring Agreement Sites





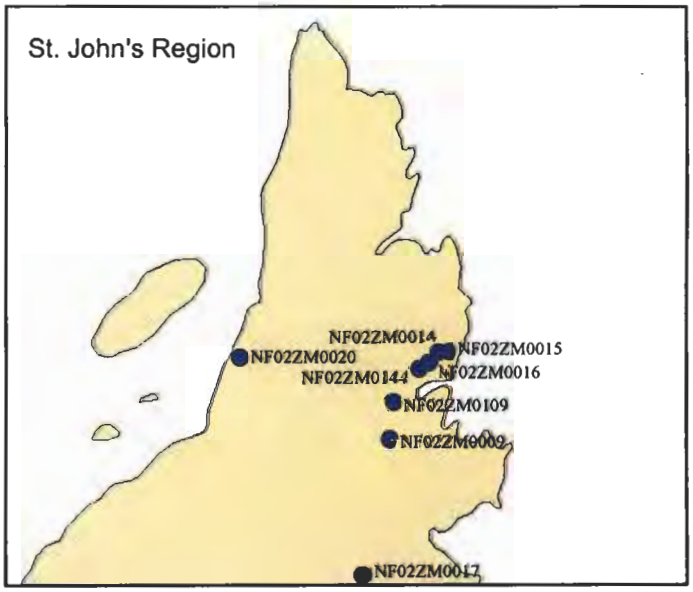
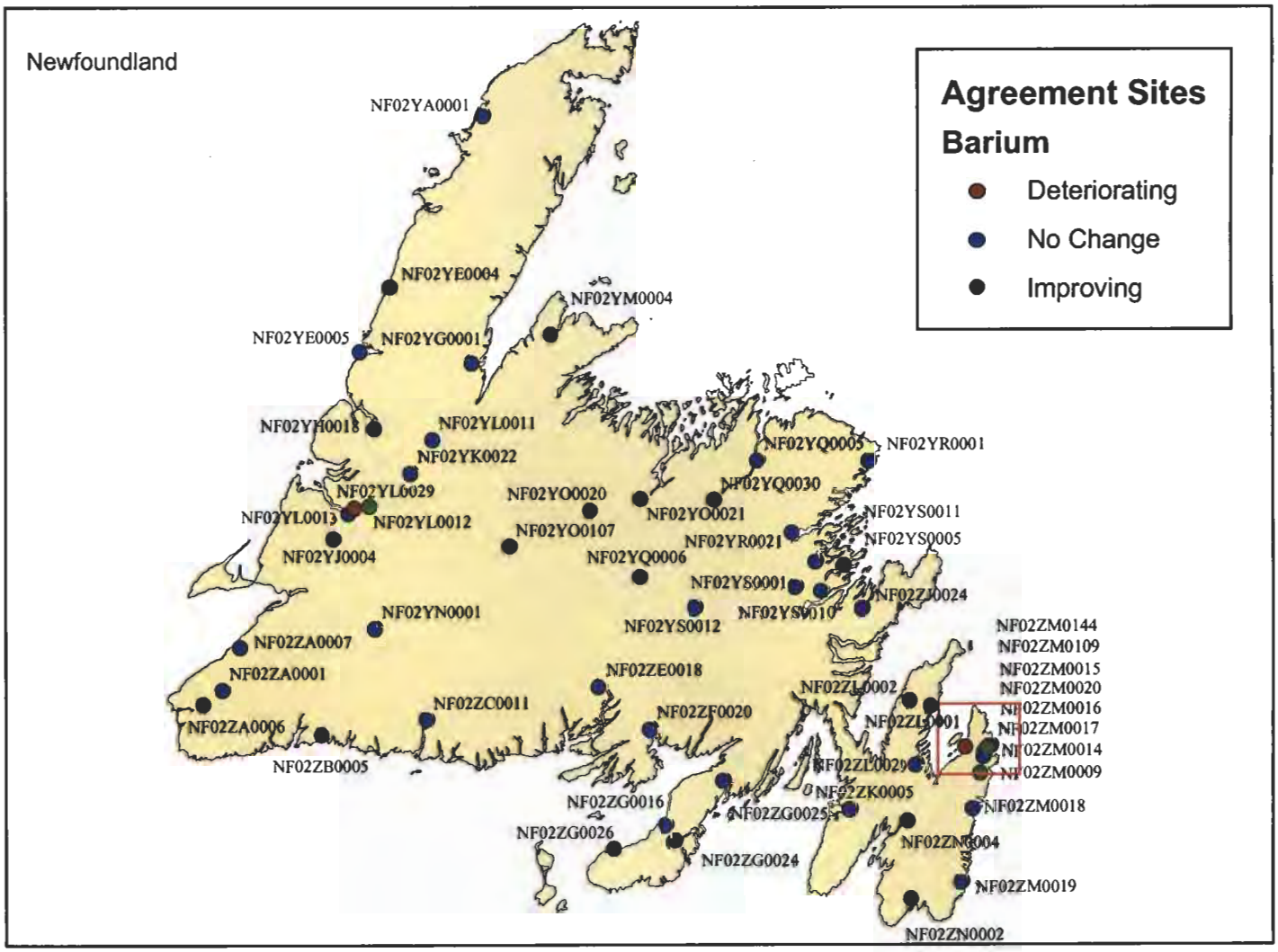
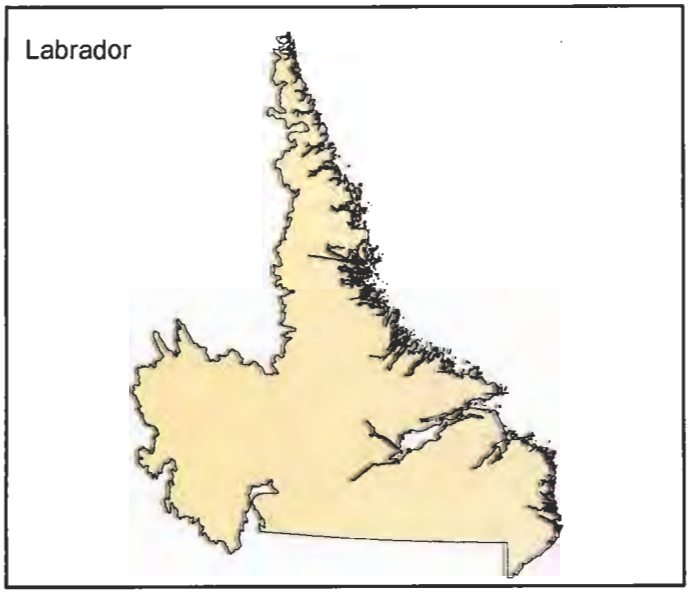


Figure 19: Trends in Barium in Canada-NL Water Quality Monitoring Agreement Sites





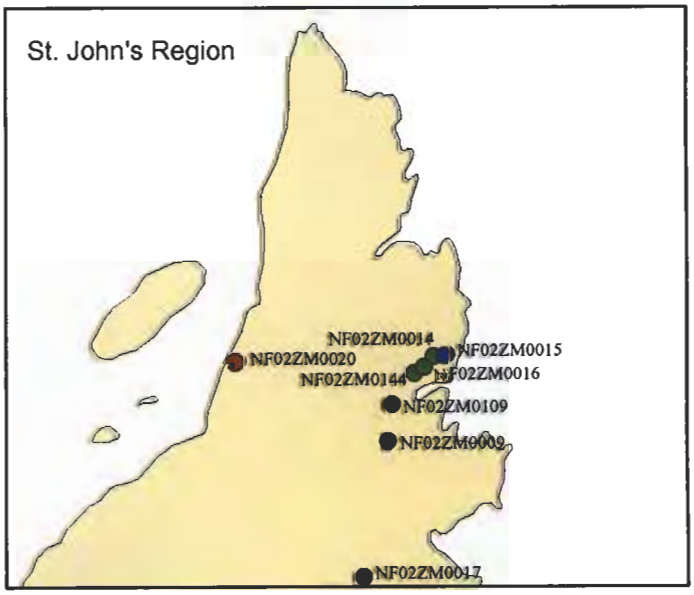
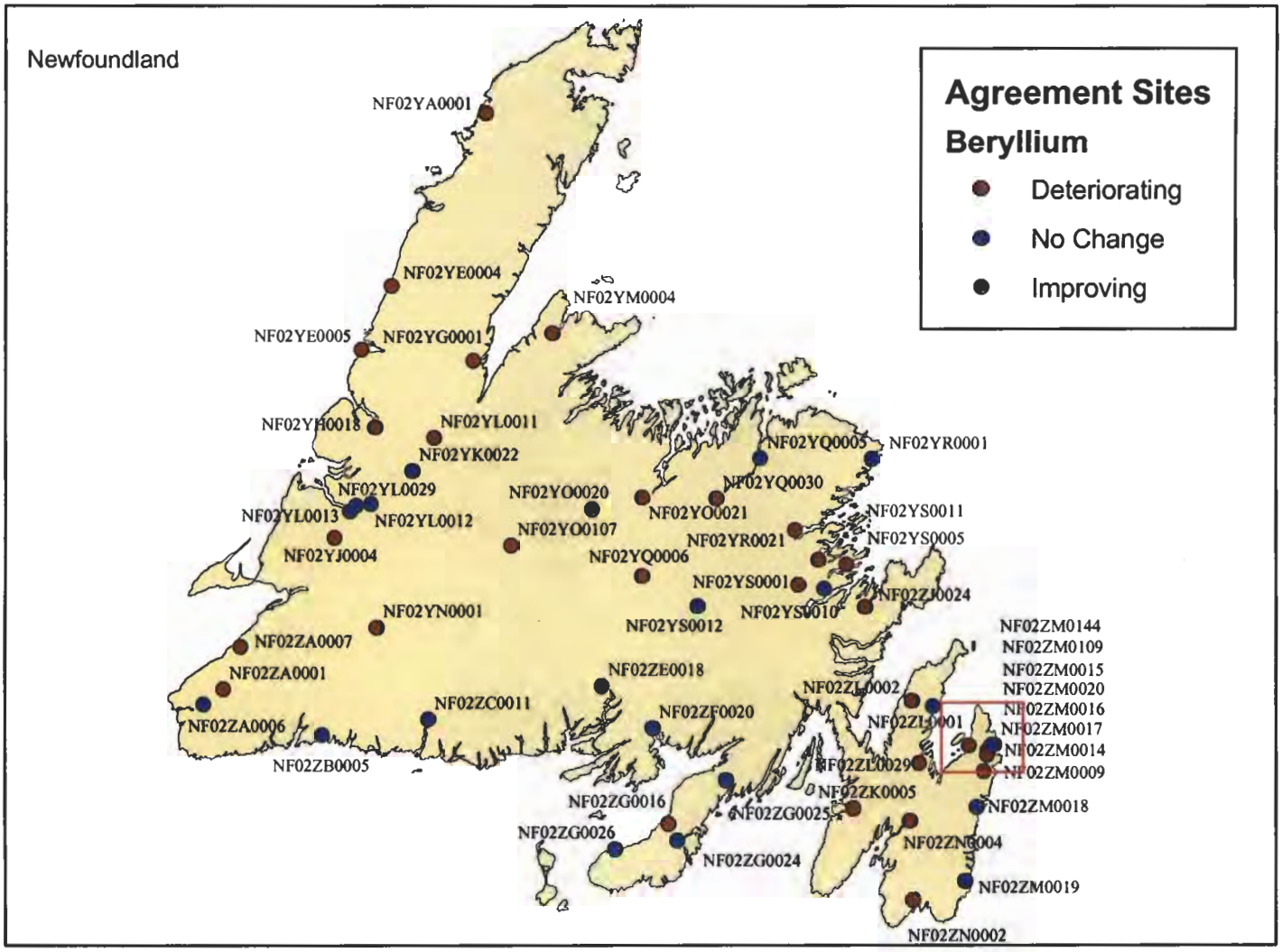
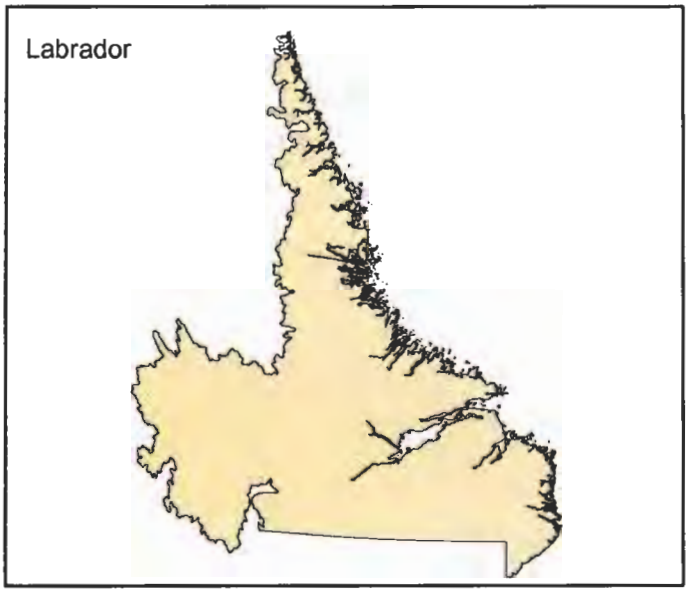


Figure 20: Trends in Beryllium in Canada-NL Water Quality Monitoring Agreement Sites





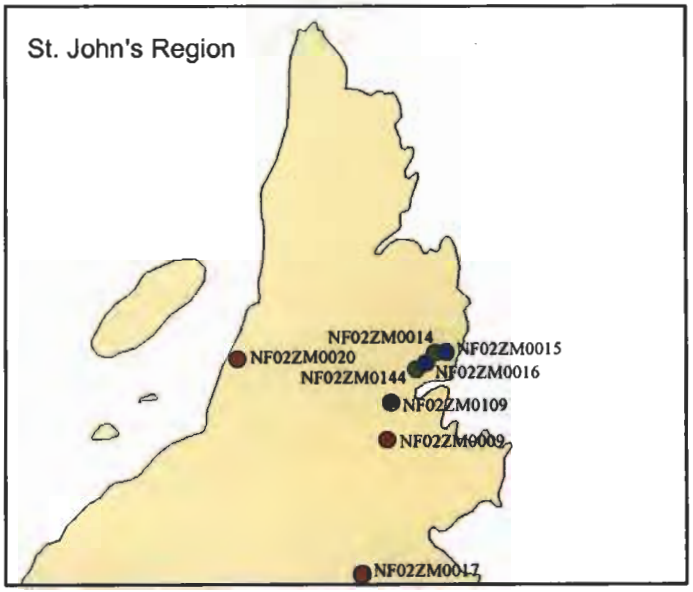
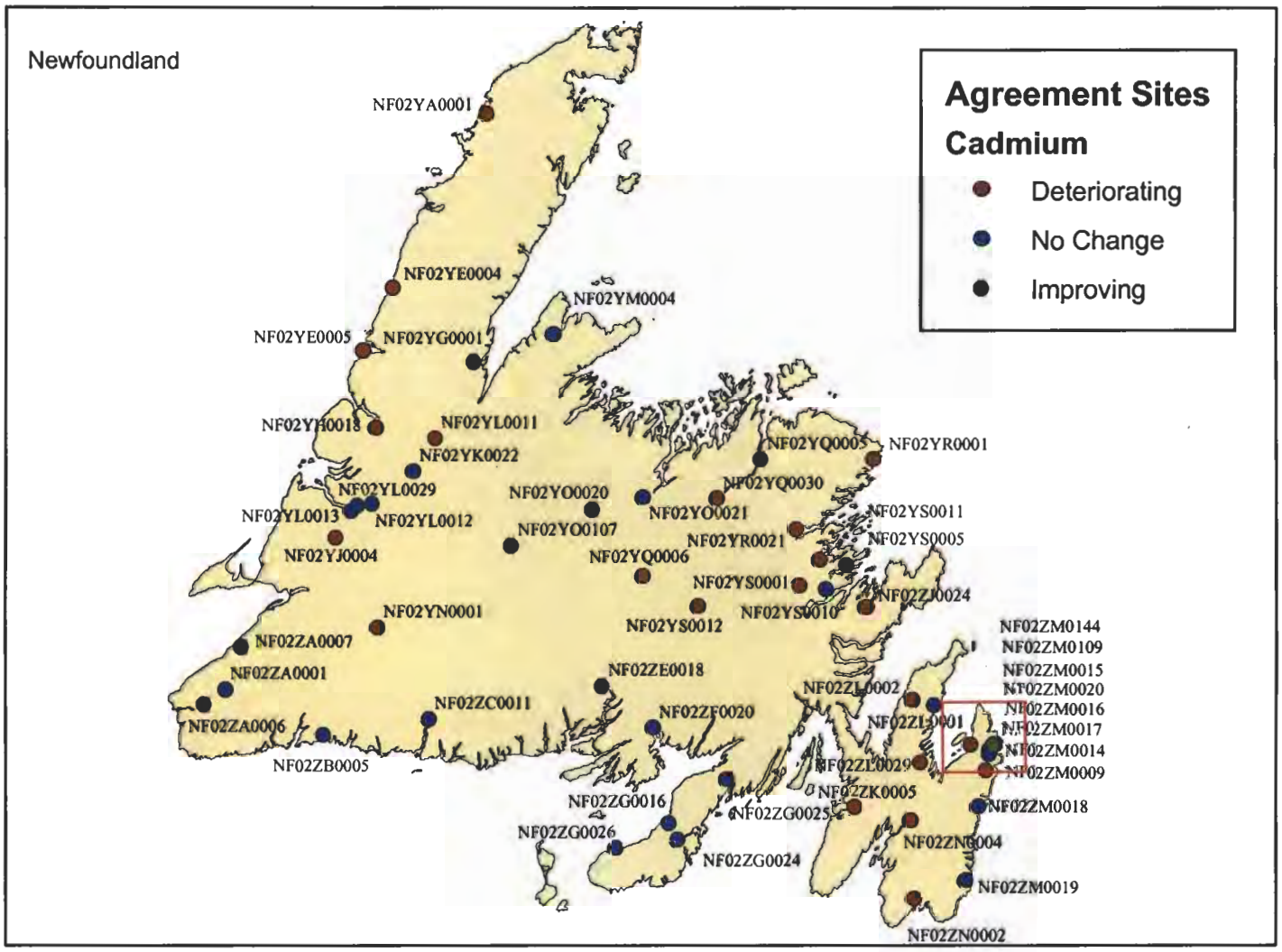


Figure 21: Trends in Cadmium in Canada-NL Water Quality Monitoring Agreement Sites



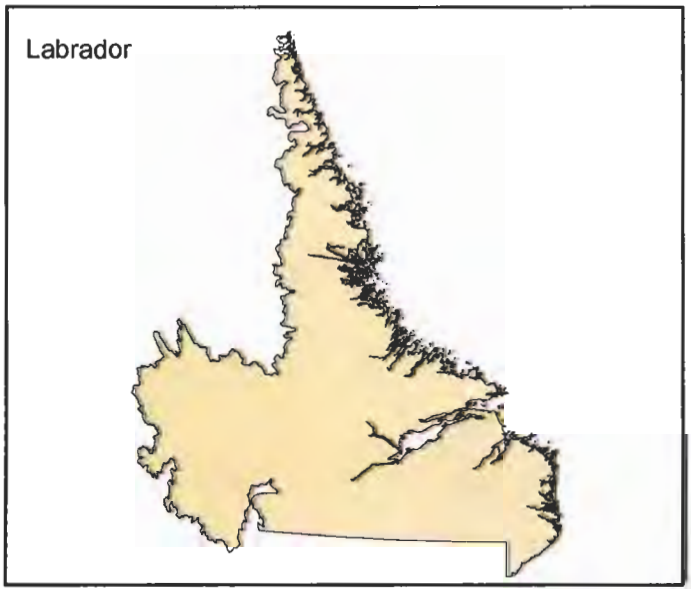
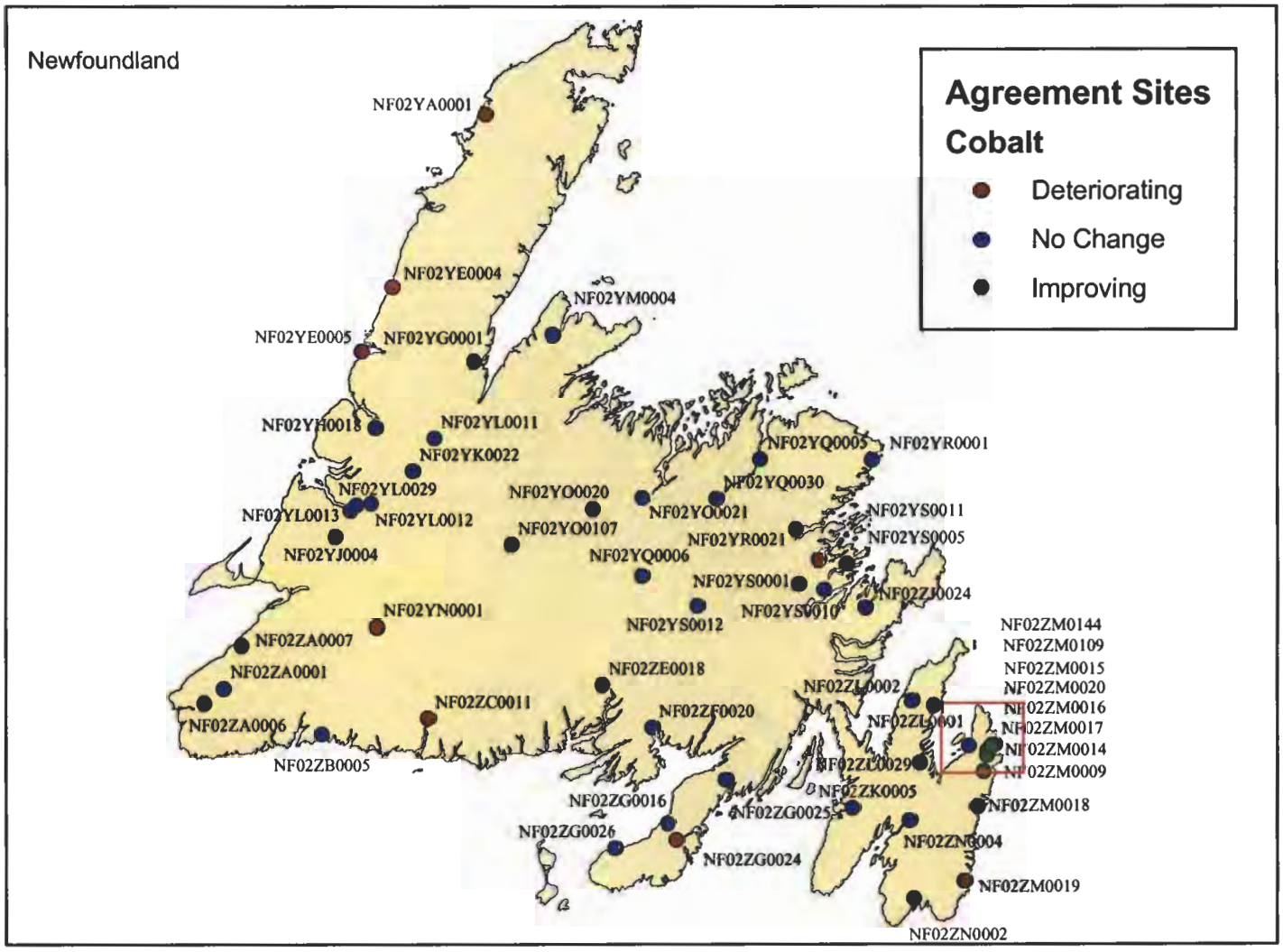
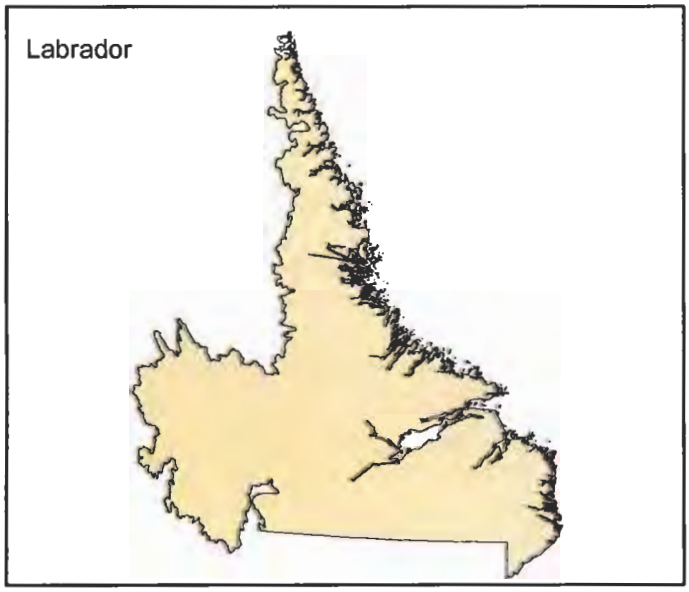


Figure 22: Trends in Cobalt in Canada-NL Water Quality Monitoring Agreement Sites





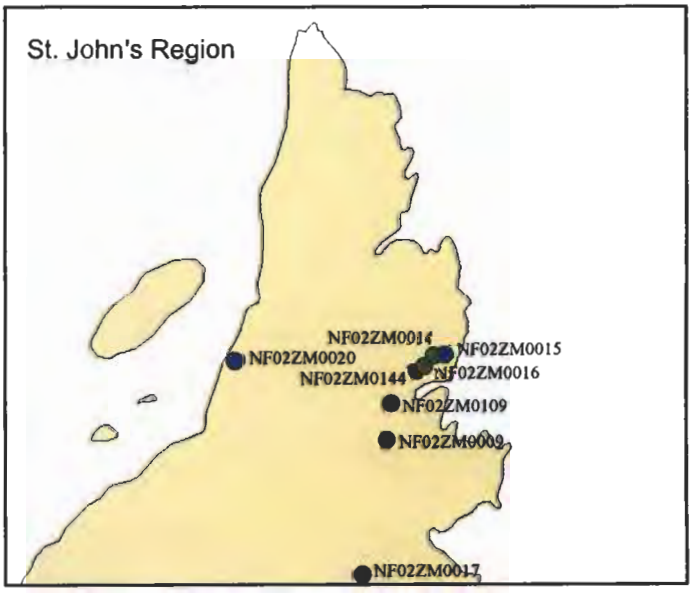
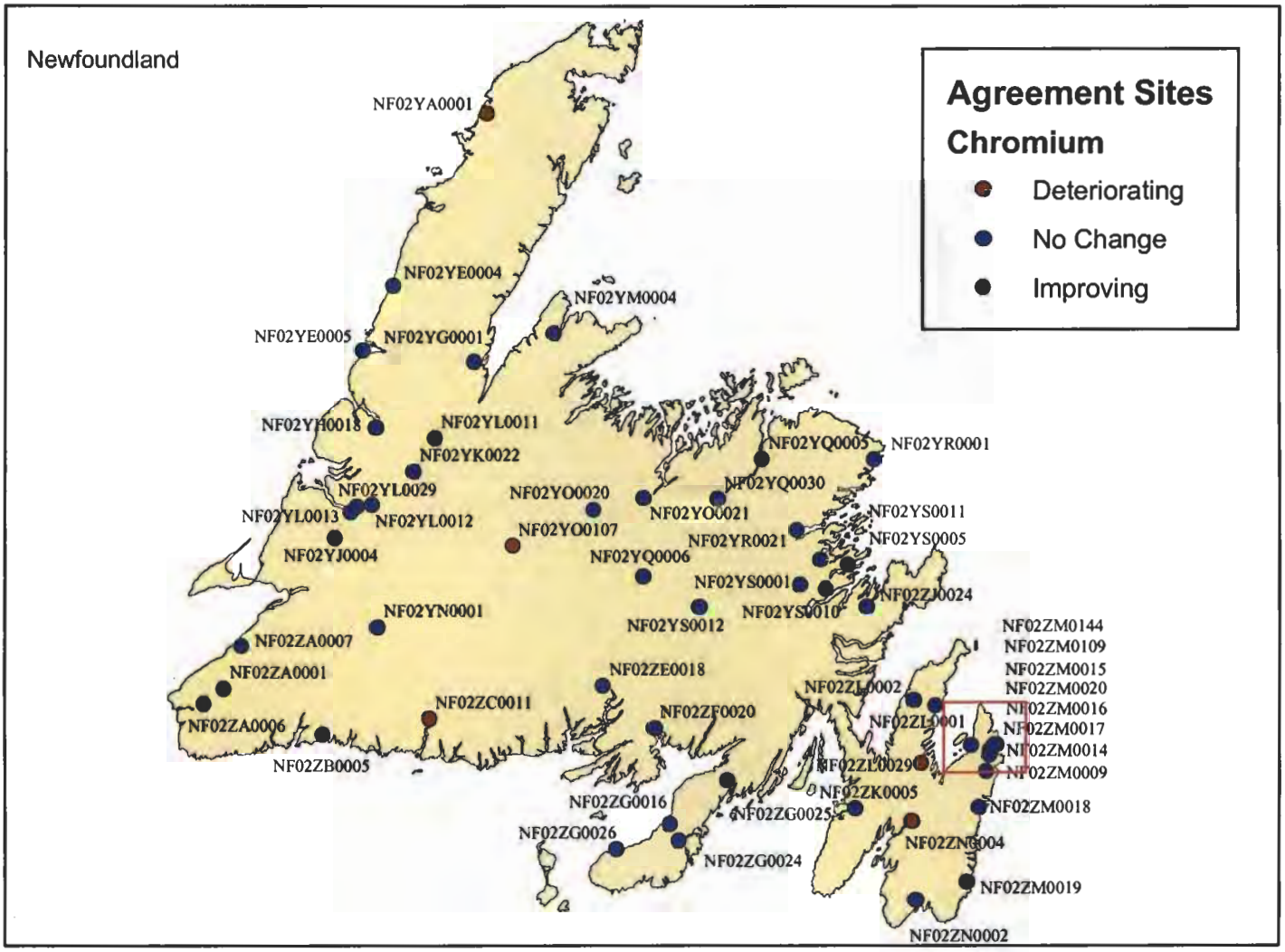
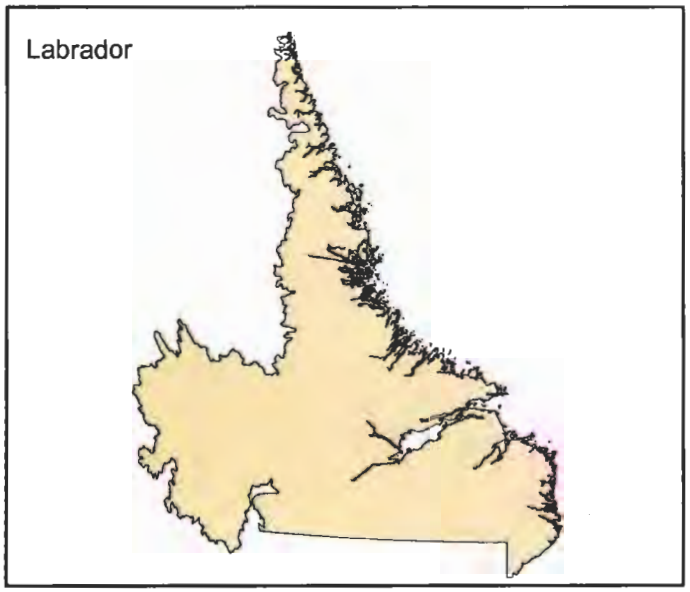


Figure 23: Trends in Chromium in Canada-NL Water Quality Monitoring Agreement Sites





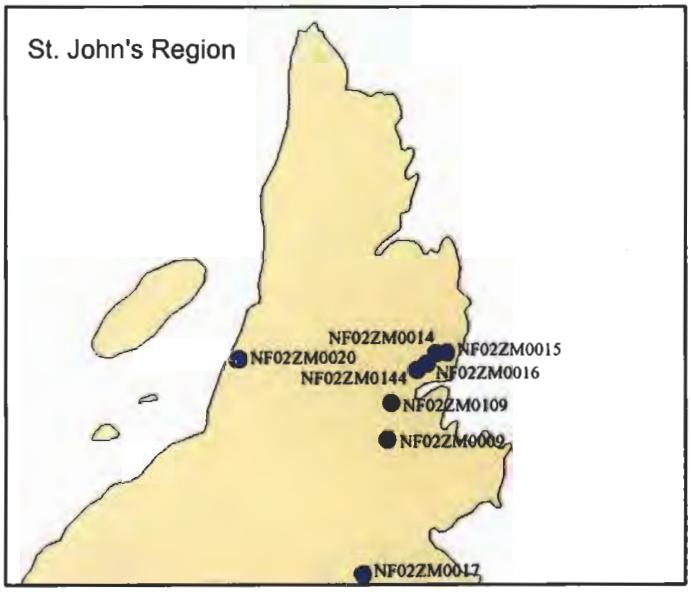
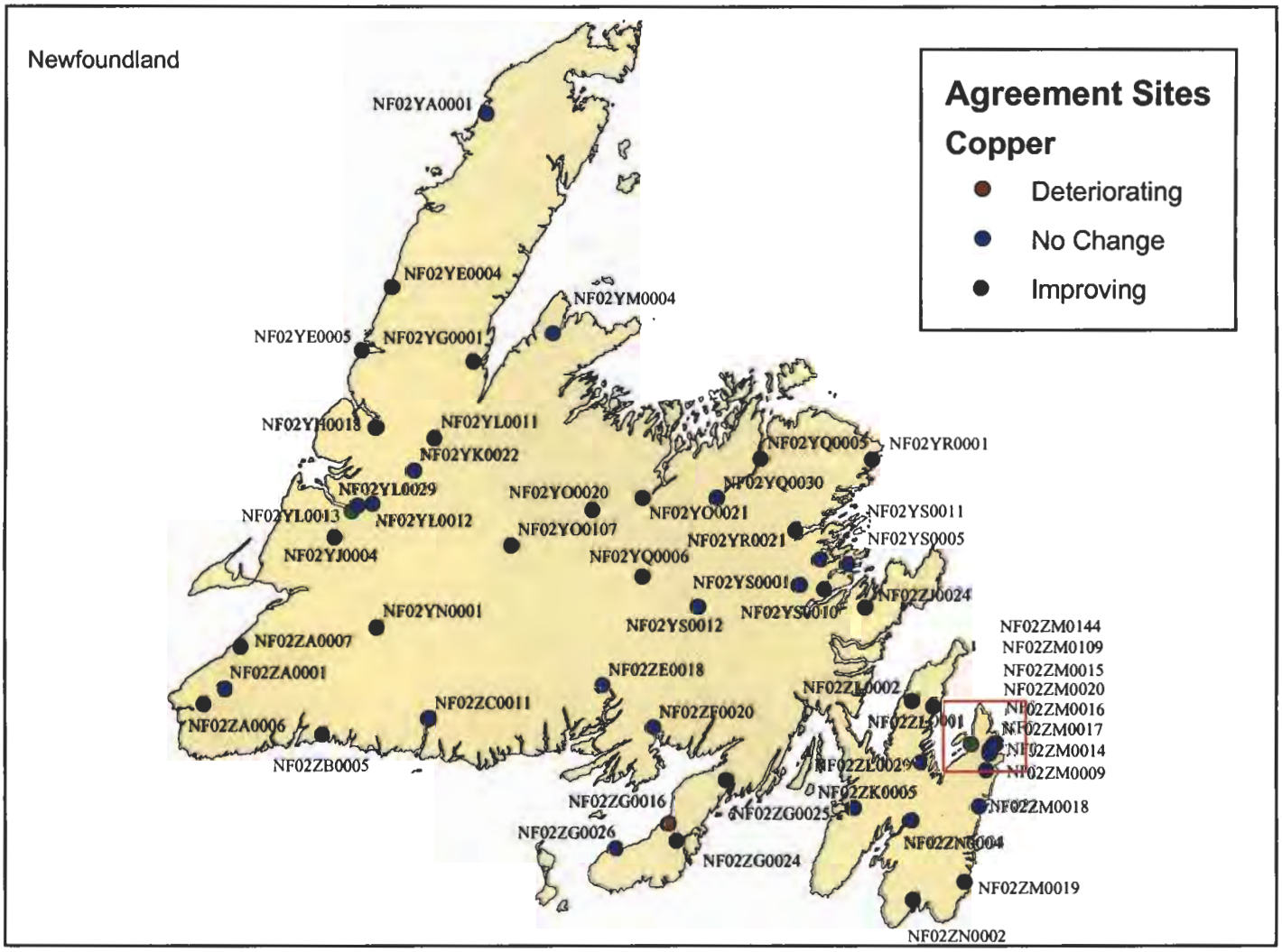


Figure 24: Trends in Copper in Canada-NL Water Quality Monitoring Agreement Sites



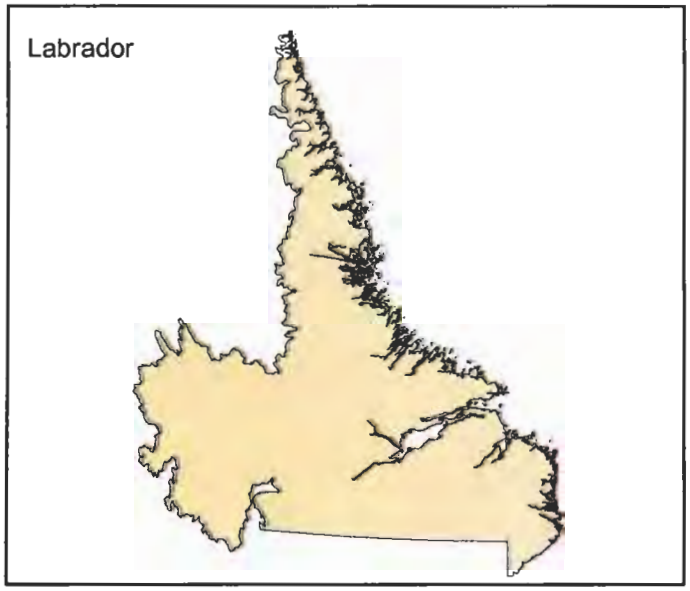
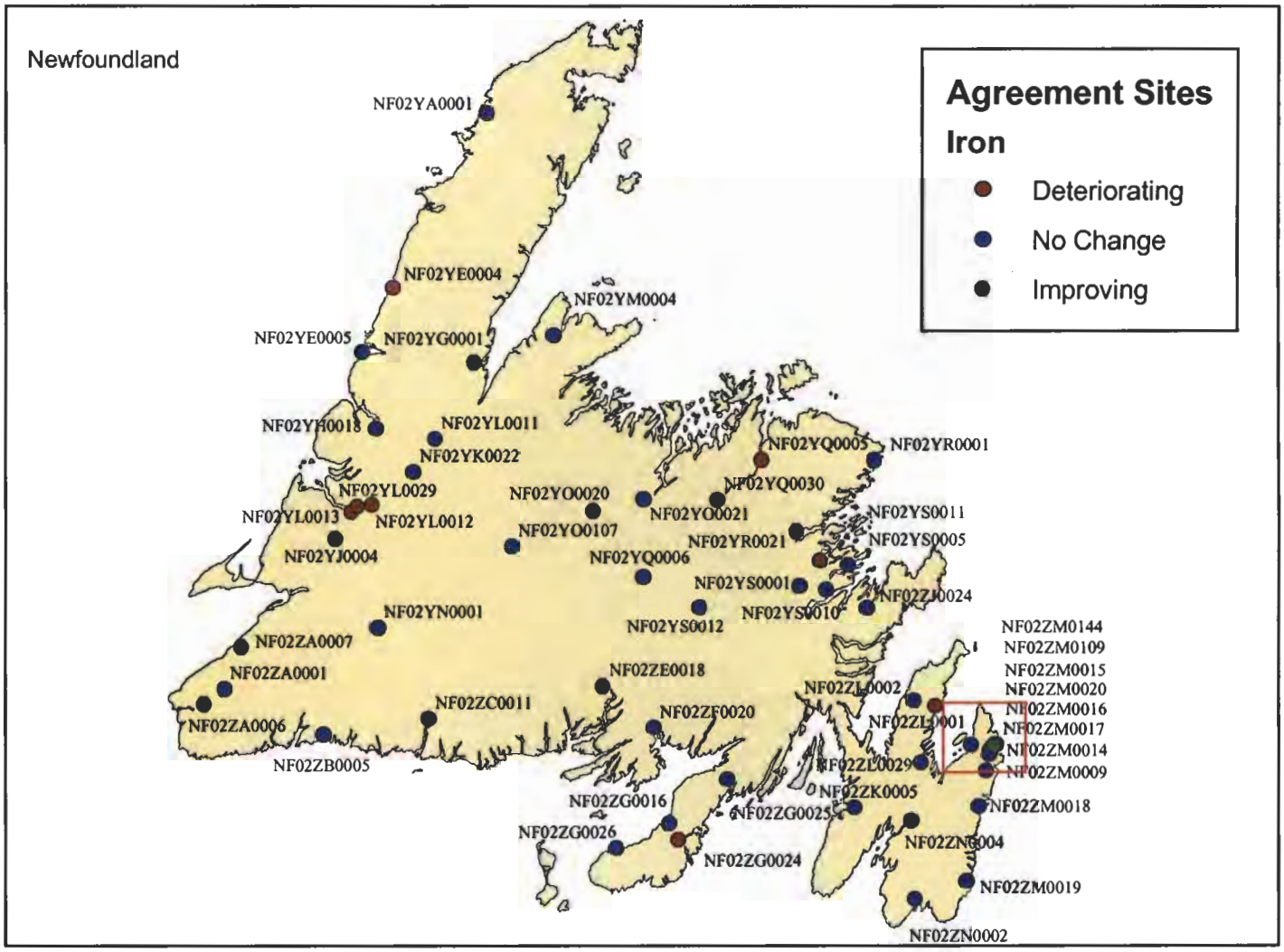
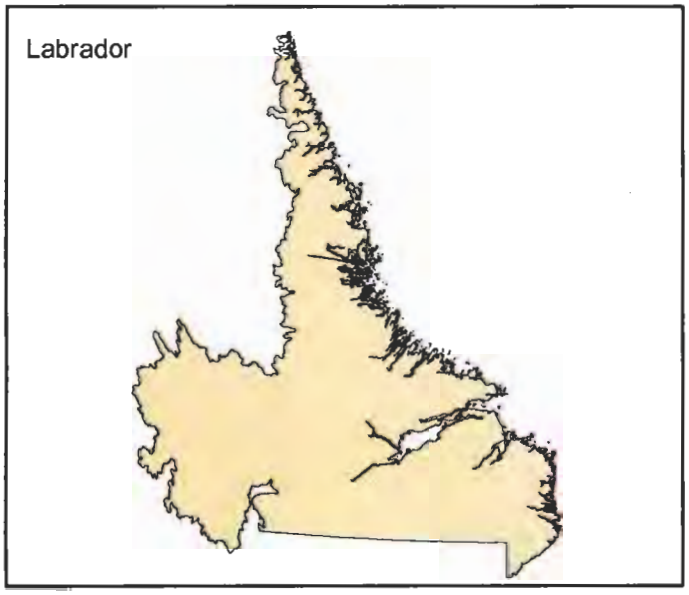


Figure 25: Trends in Iron in Canada-NL Water Quality Monitoring Agreement Sites





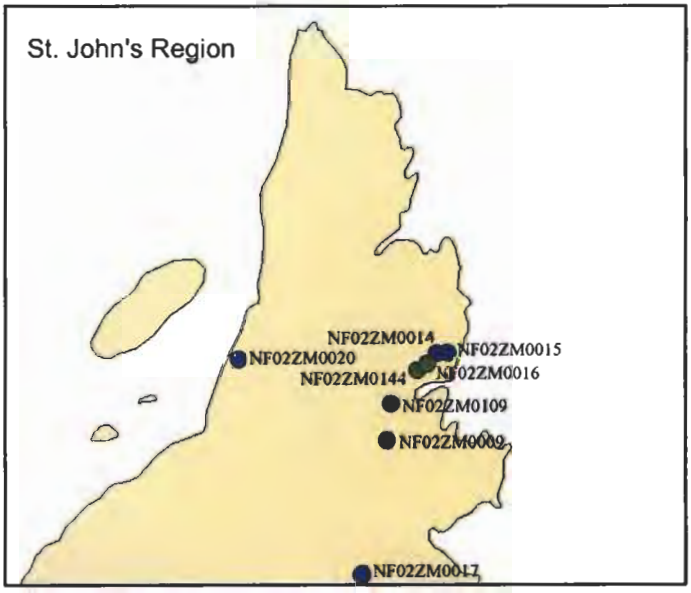
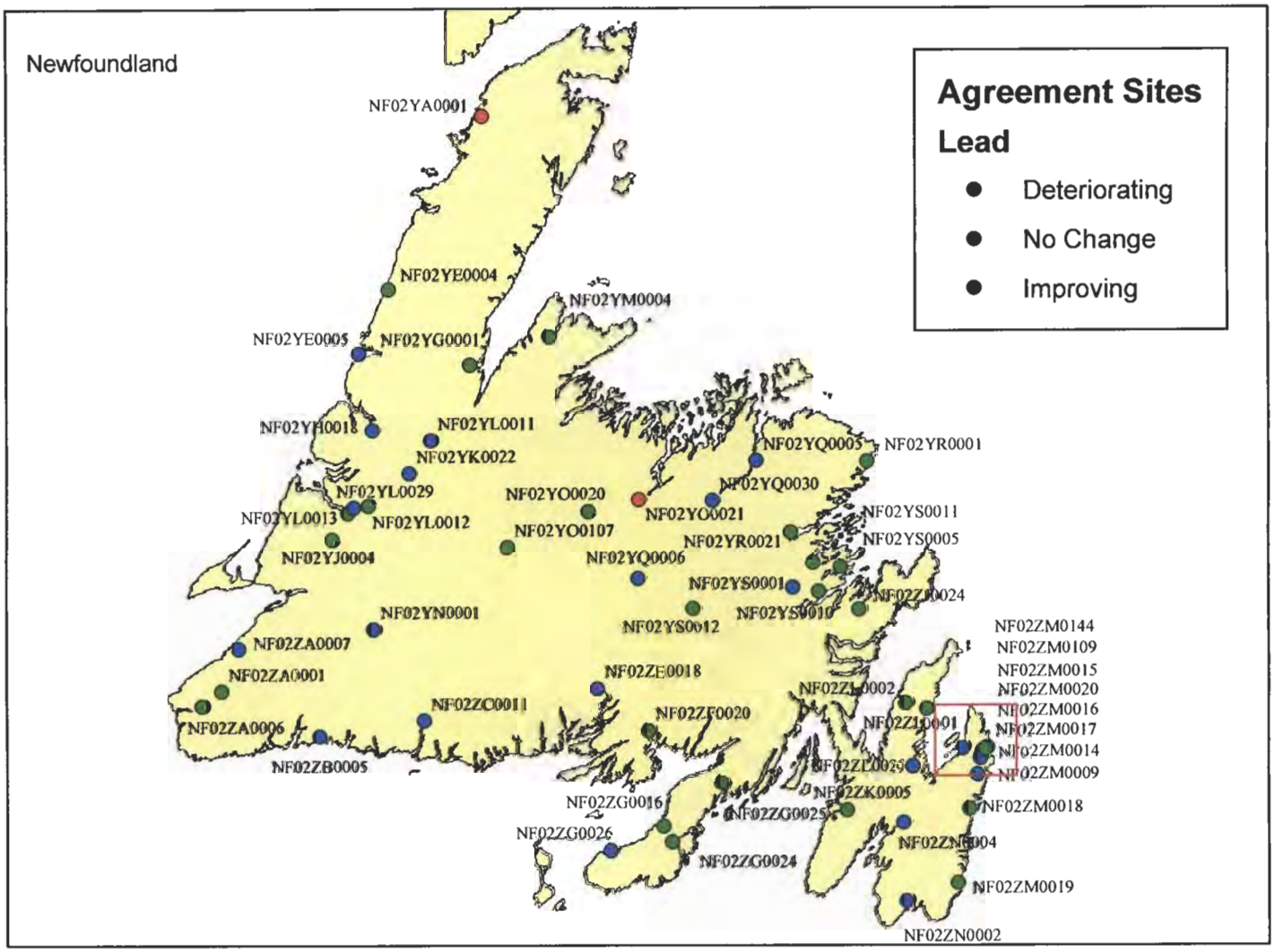
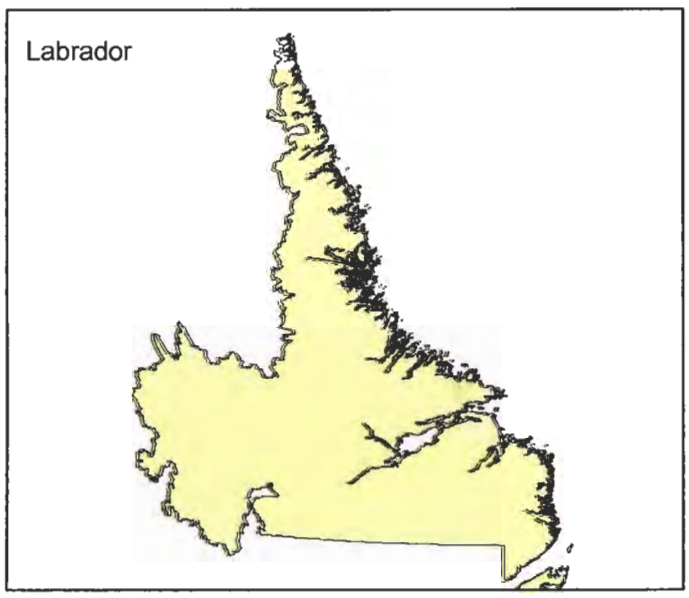


Figure 26: Trends in Lead in Canada-NL Water Quality Monitoring Agreement Sites





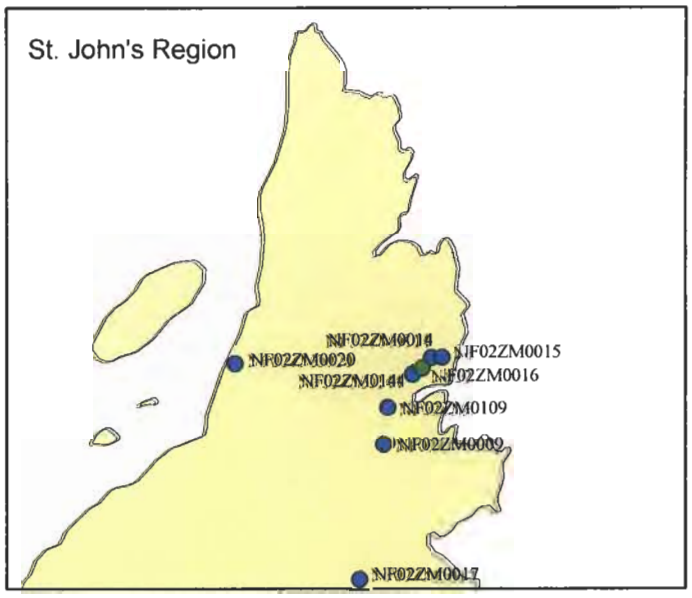
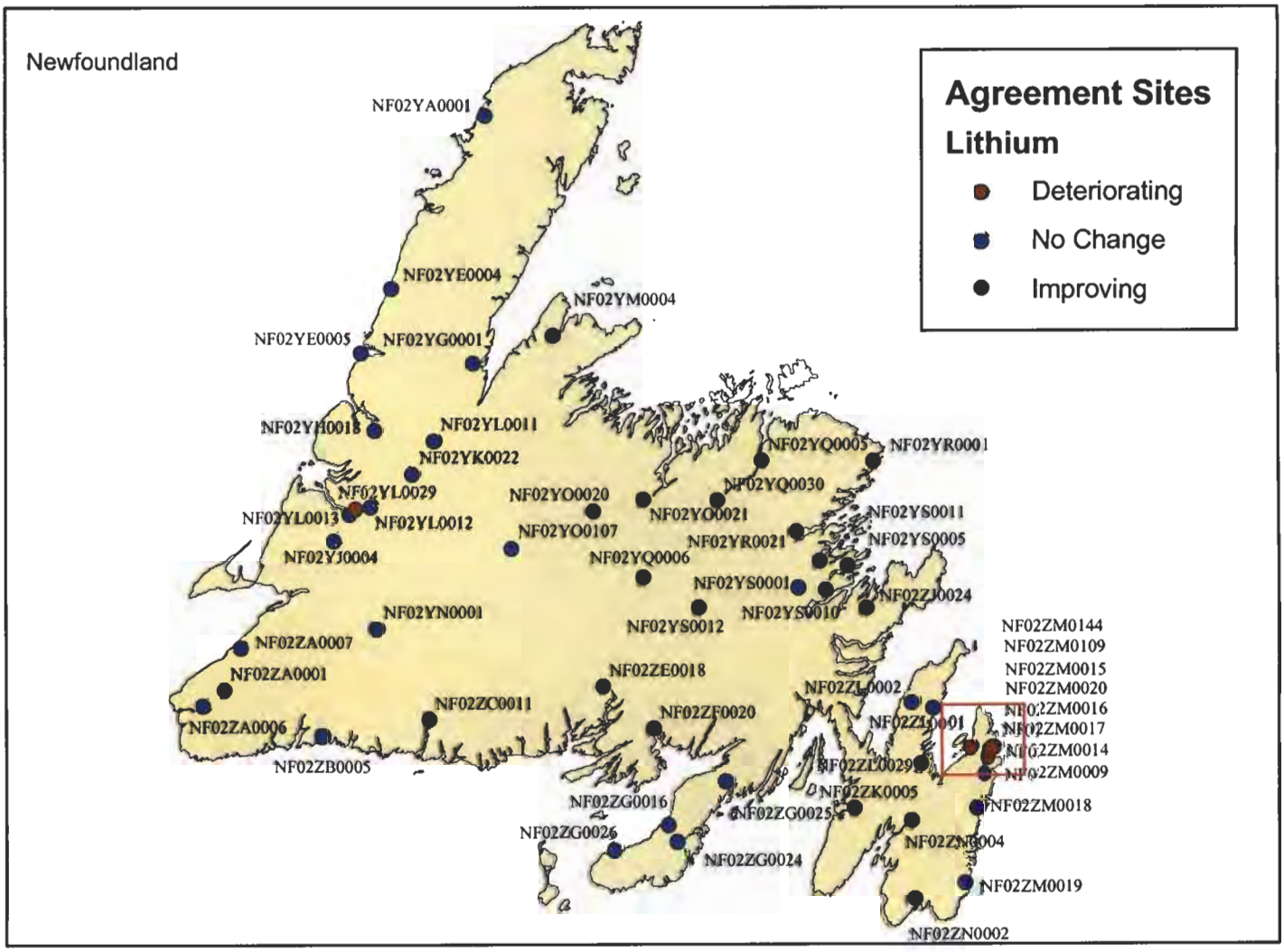
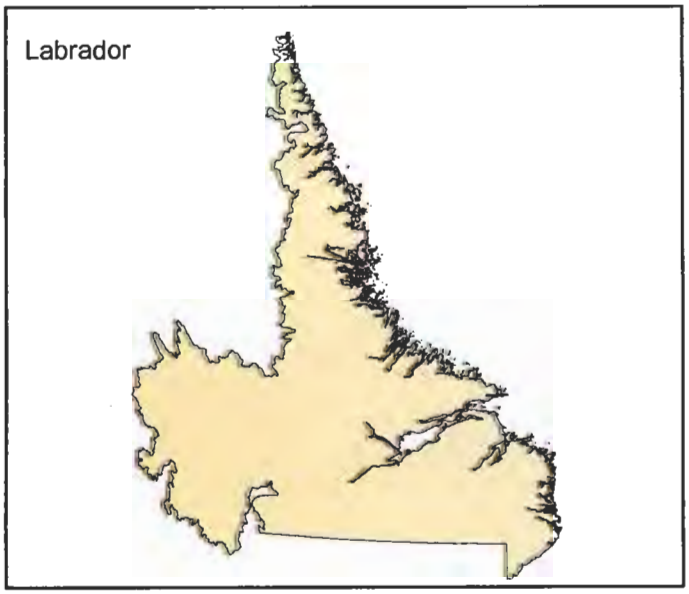


Figure 27: Trends in Lithium in Canada-NL Water Quality Monitoring Agreement Sites





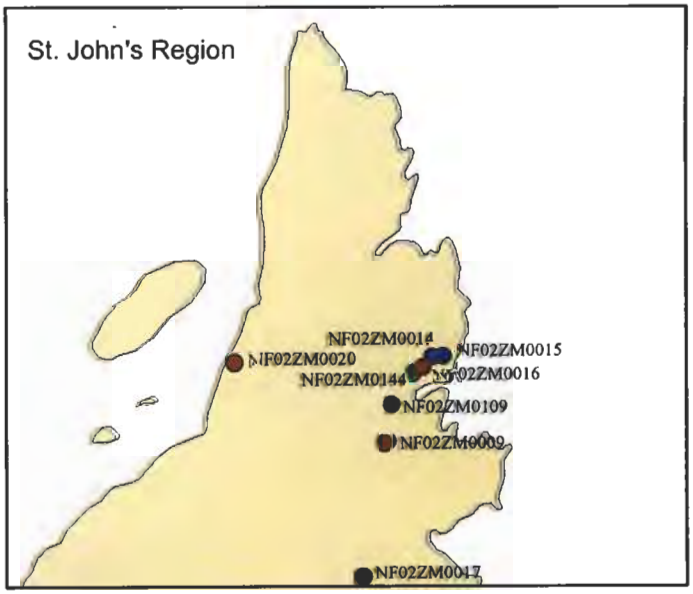
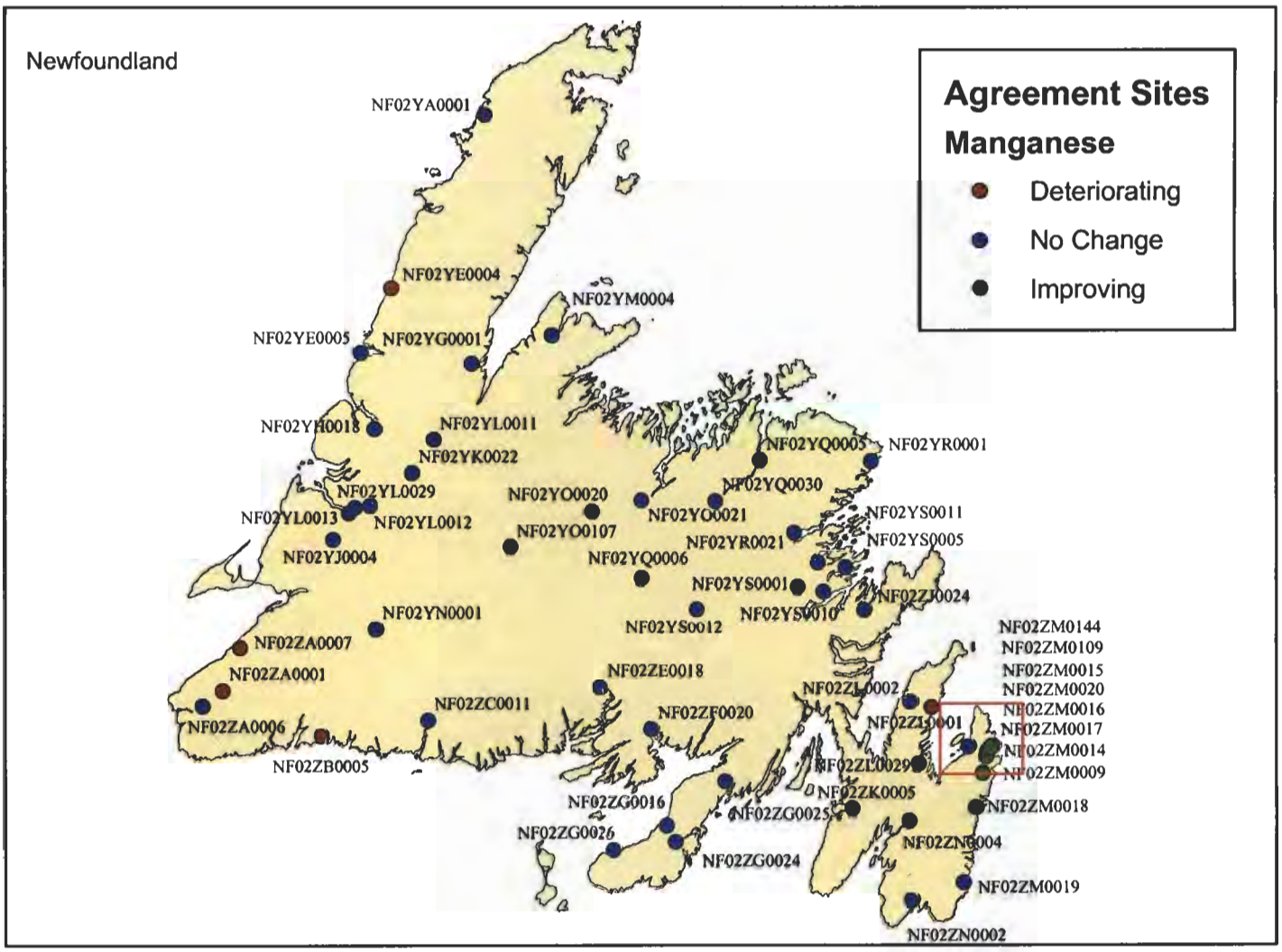
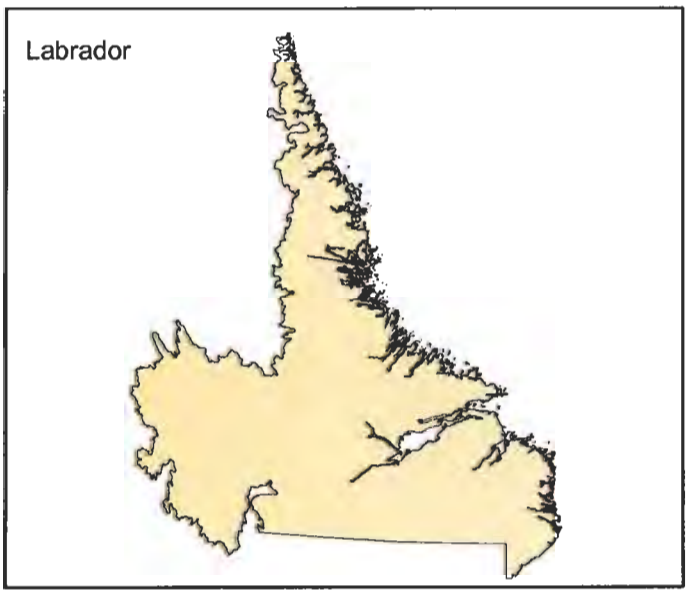


Figure 28: Trends in Manganese in Canada-NL Water Quality Monitoring Agreement Sites





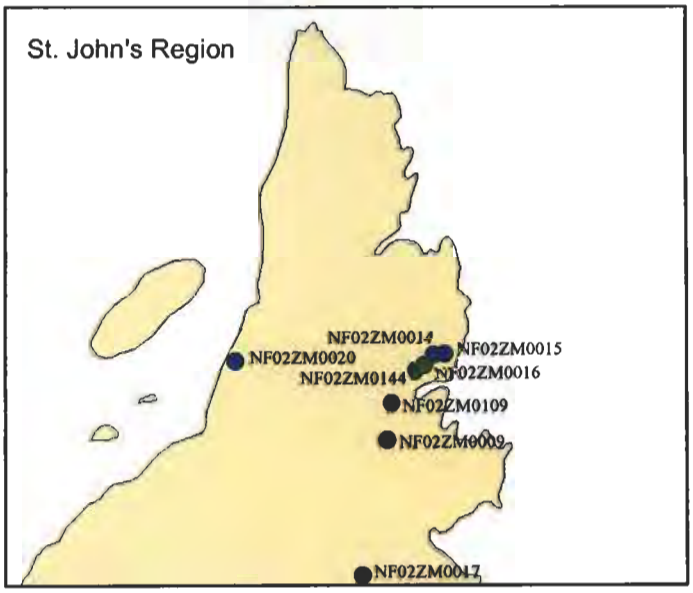
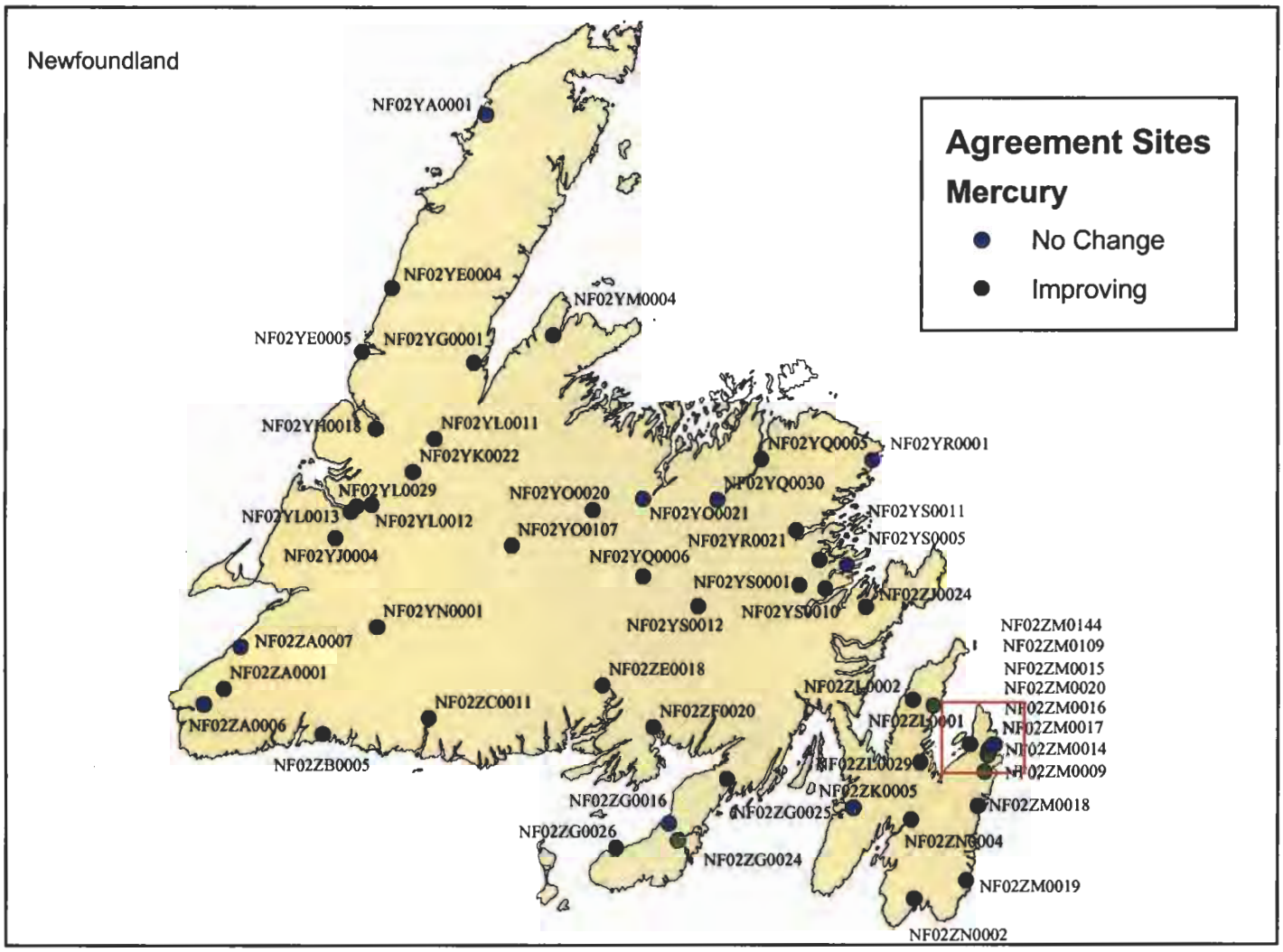
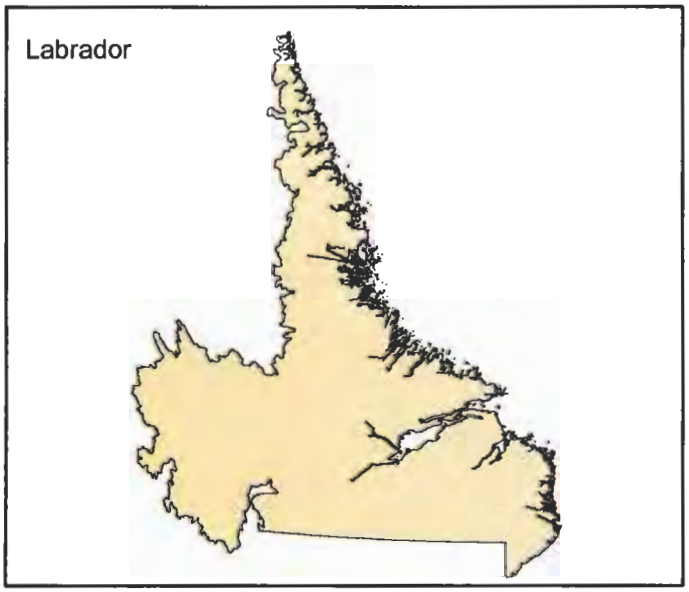


Figure 29: Trends in Mercury in Canada-NL Water Quality Monitoring Agreement Sites





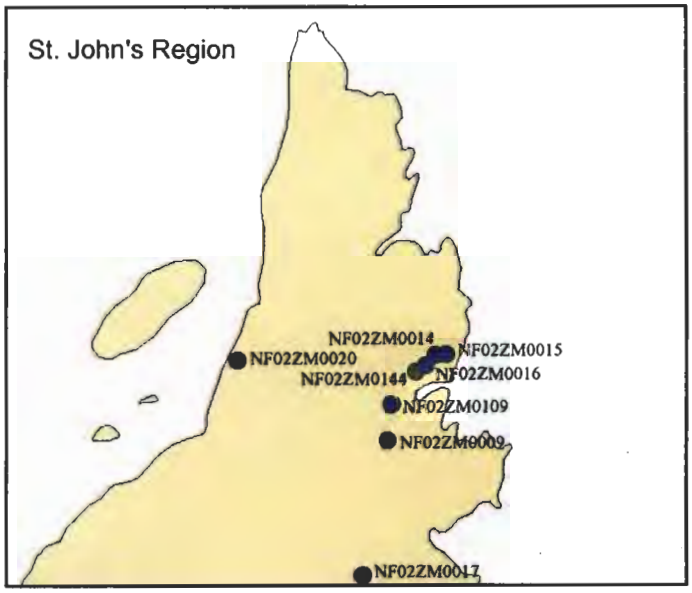
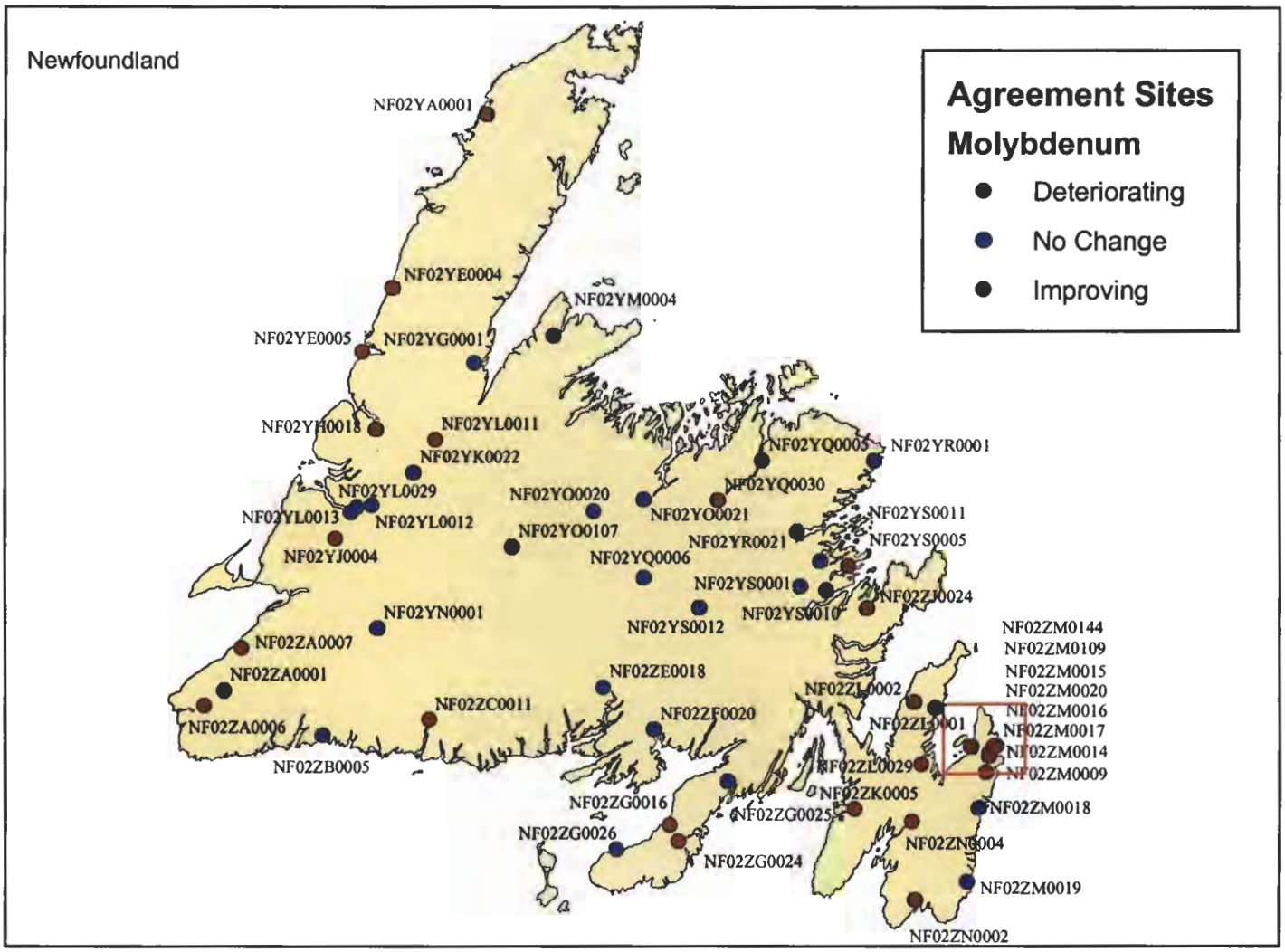
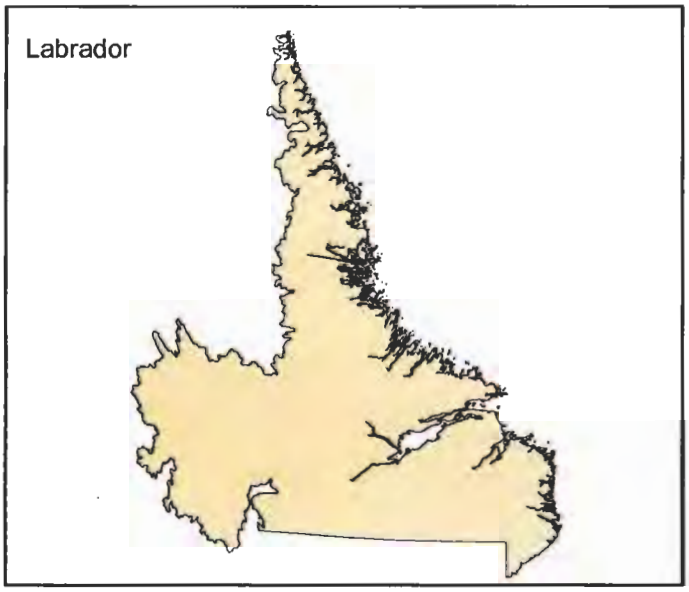


Figure 30: Trends in Molybdenum in Canada-NL Water Quality Monitoring Agreement Sites





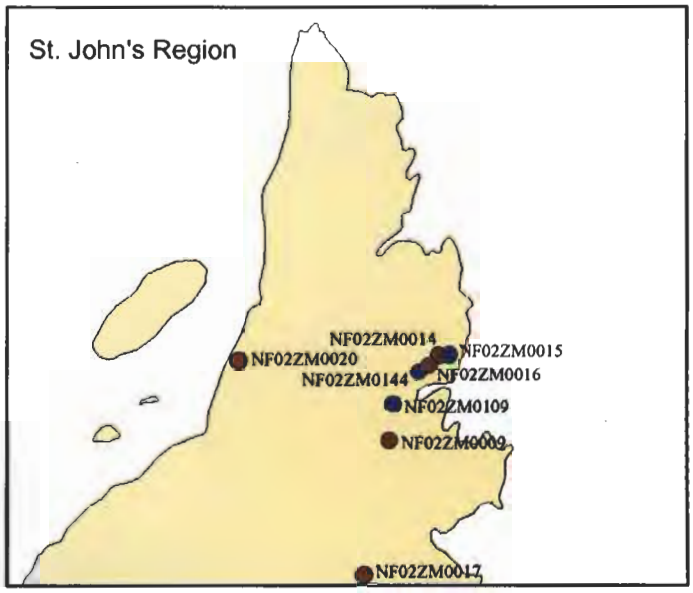
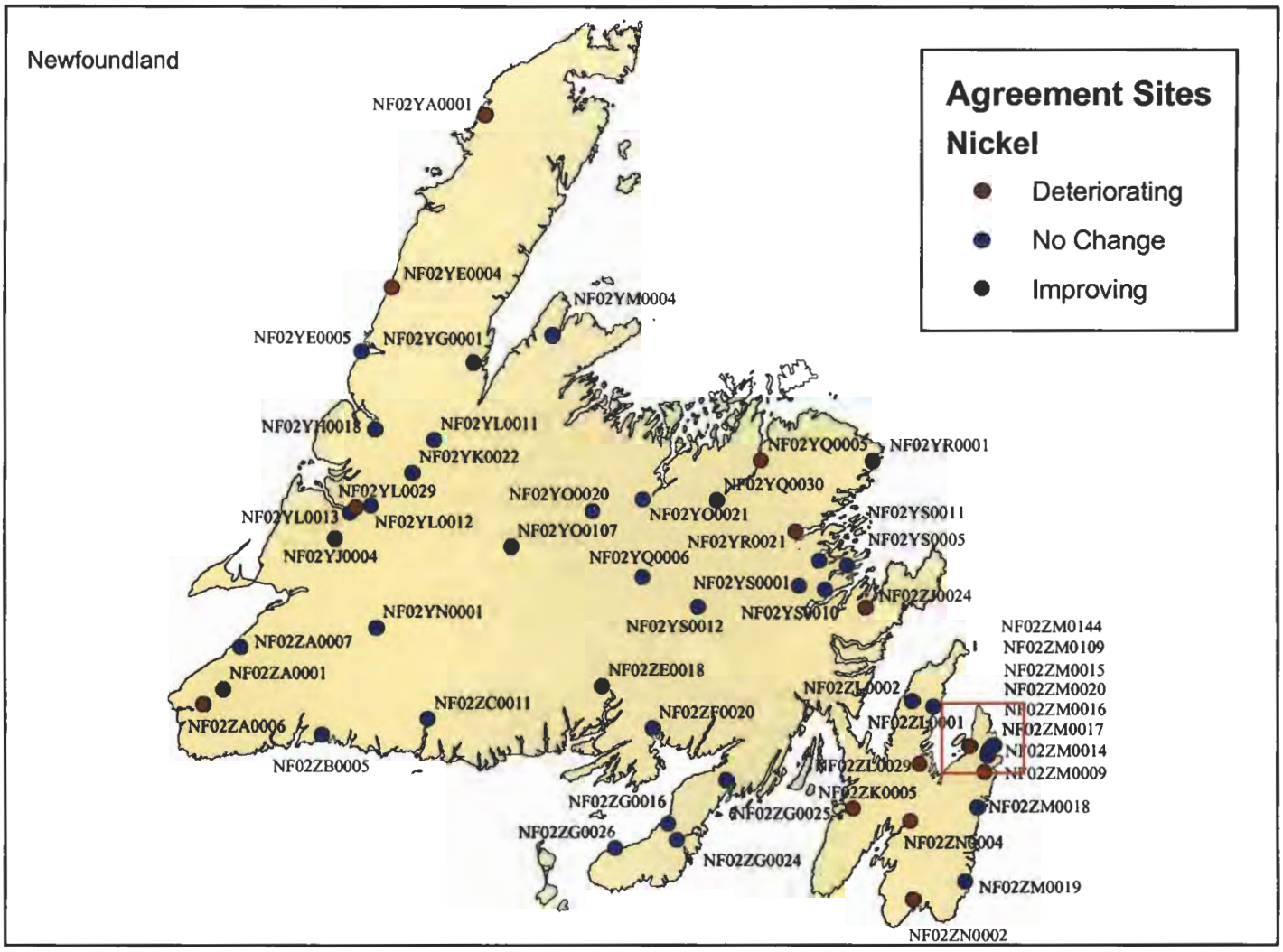
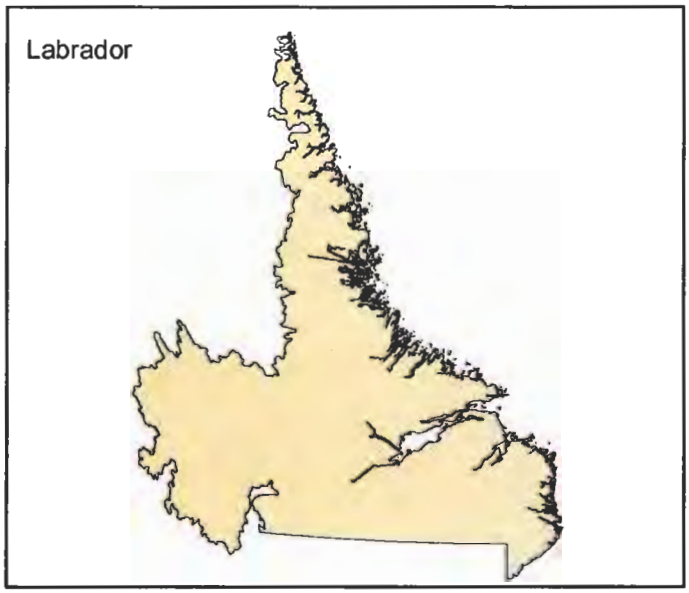


Figure 31: Trends in Nickel in Canada-NL Water Quality Monitoring Agreement Sites





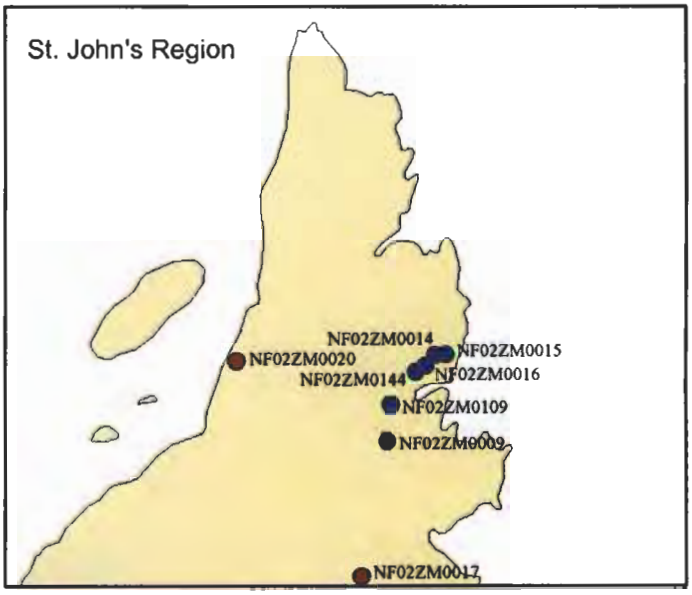
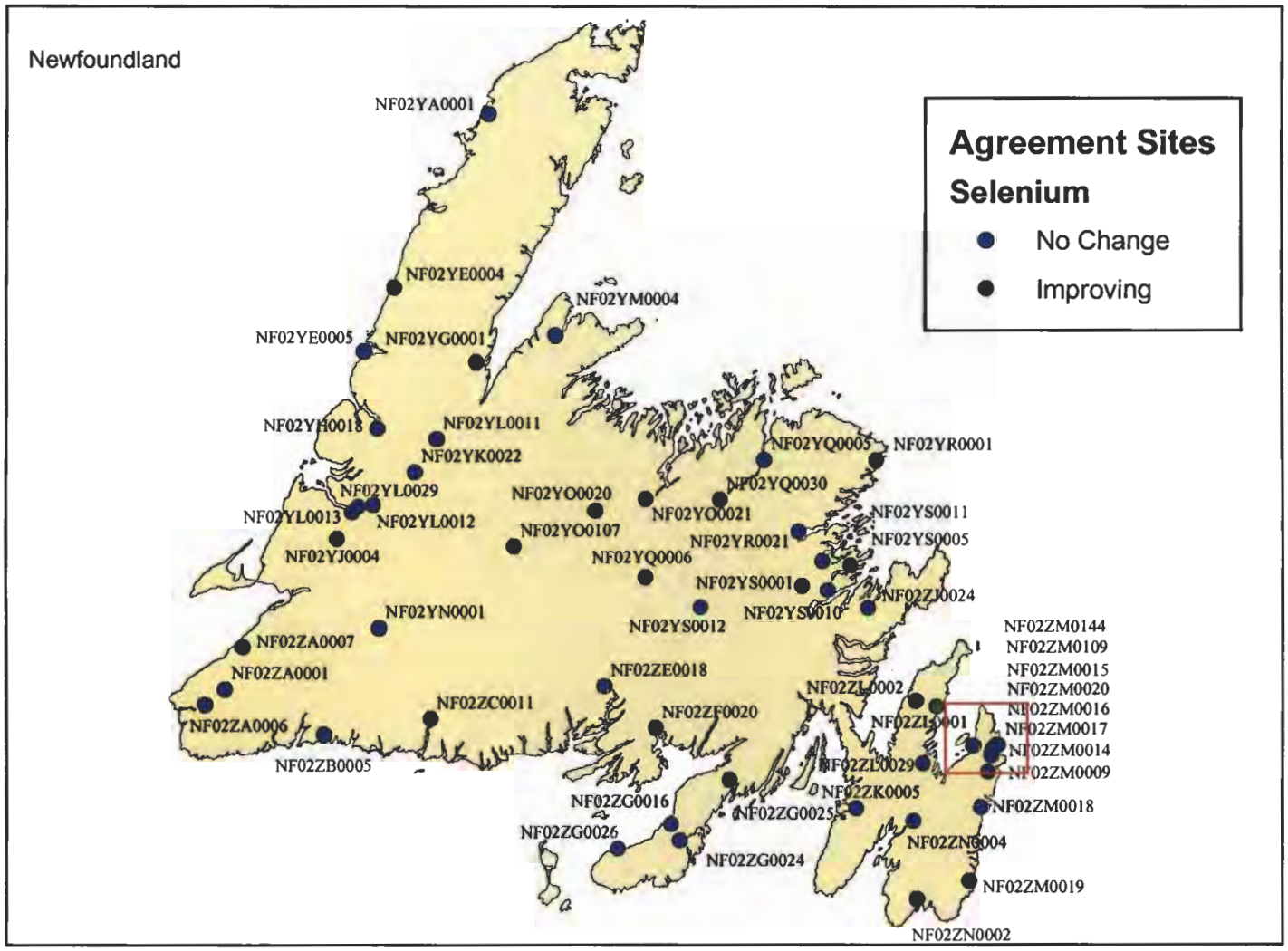
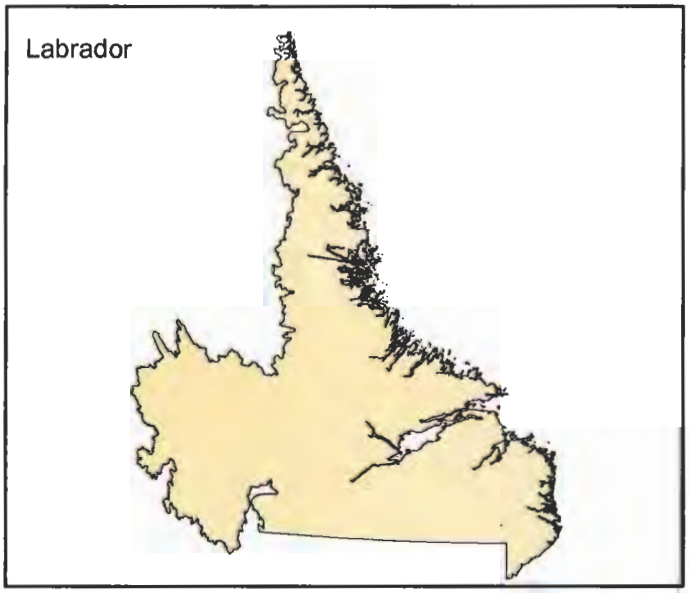


Figure 32: Trends in Selenium in Canada-NL Water Quality Monitoring Agreement Sites





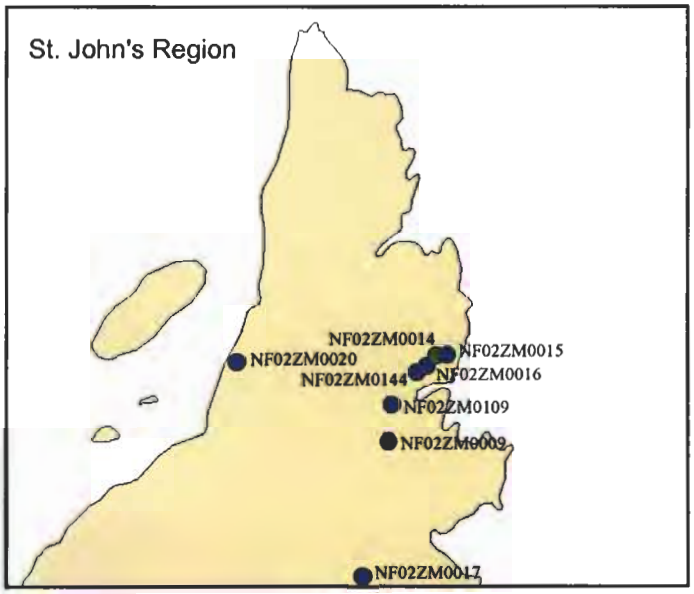
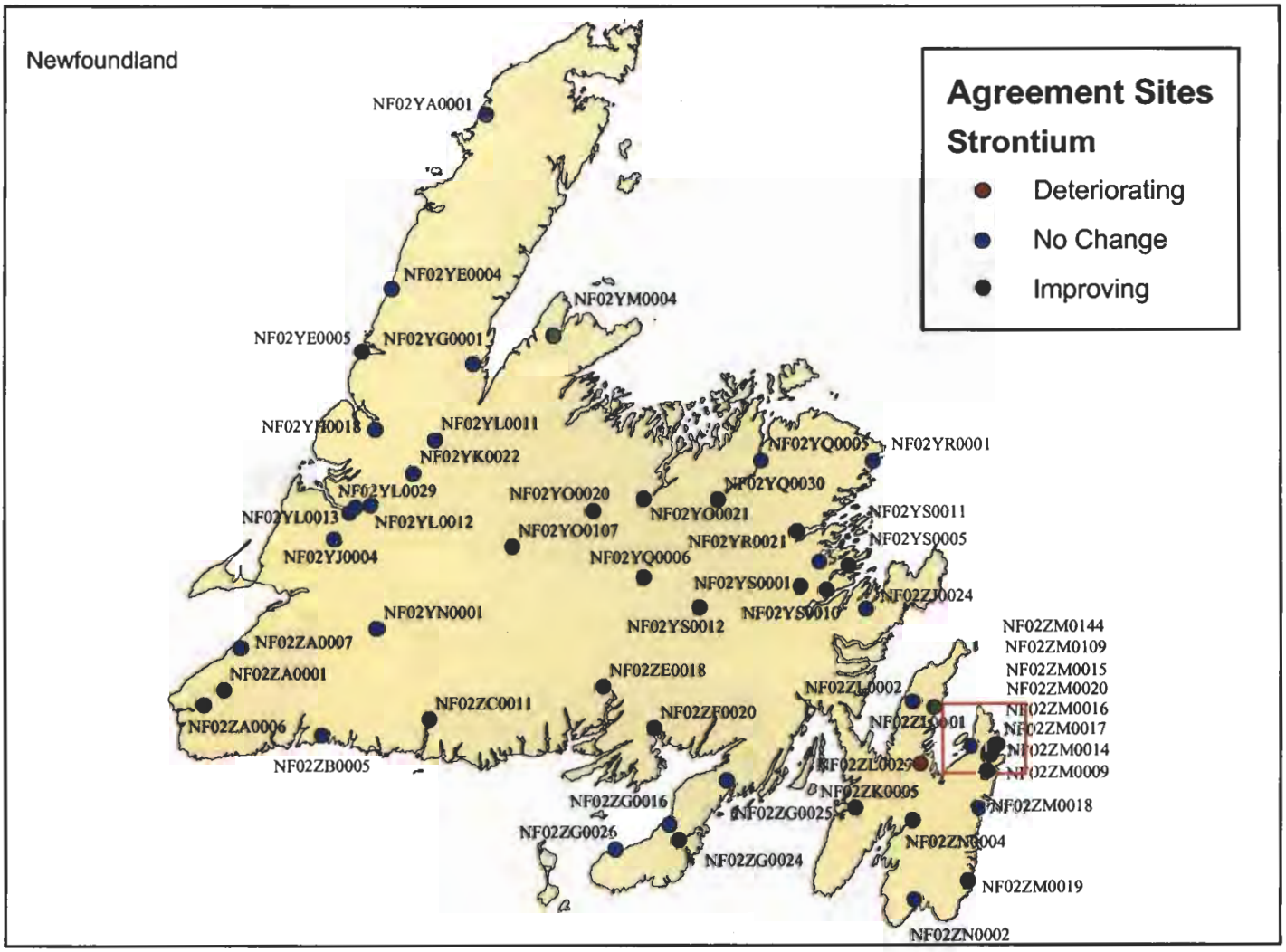
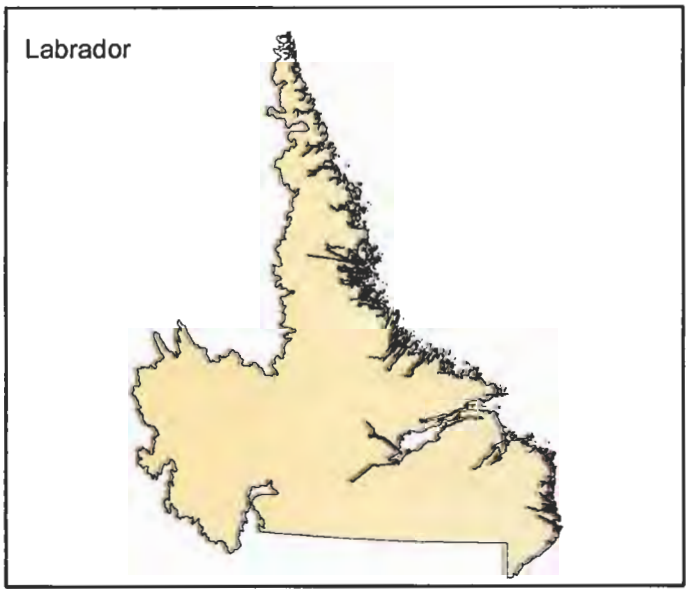


Figure 33: Trends in Strontium in Canada-NL Water Quality Monitoring Agreement Sites





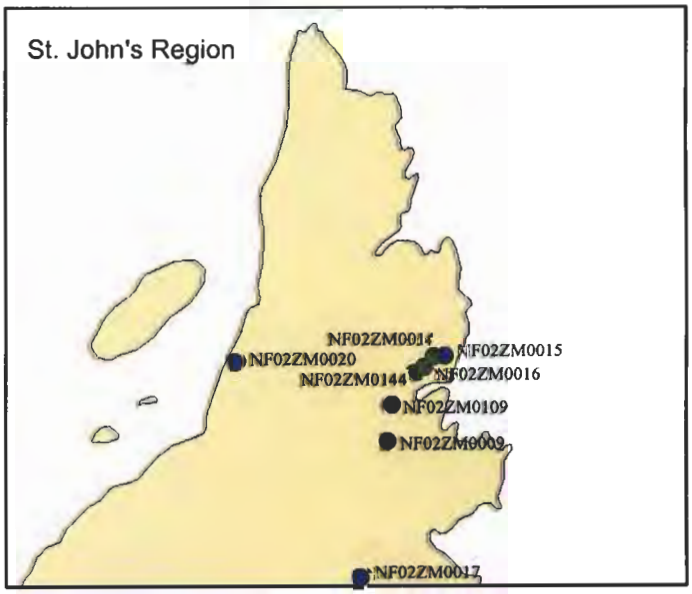
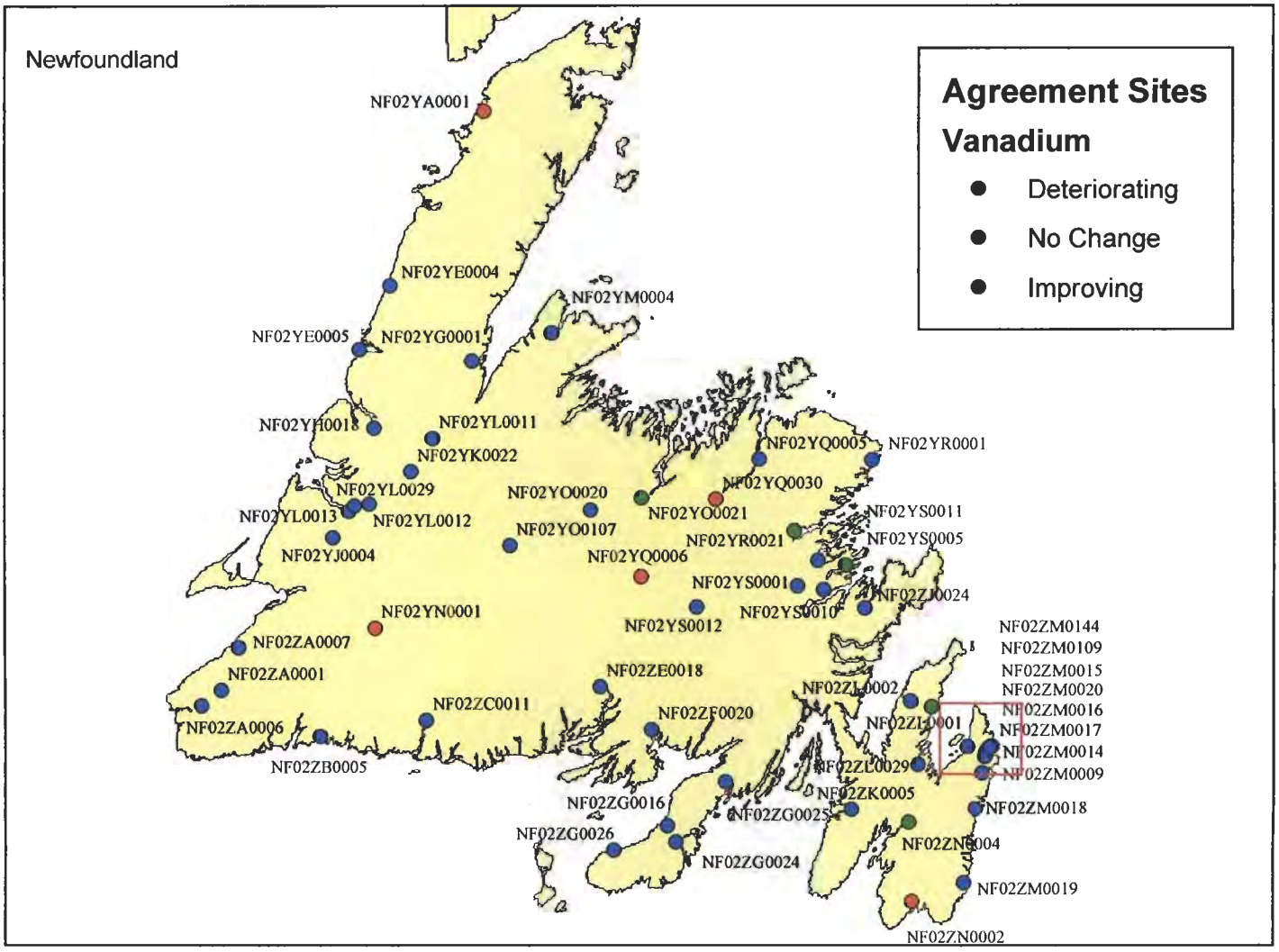
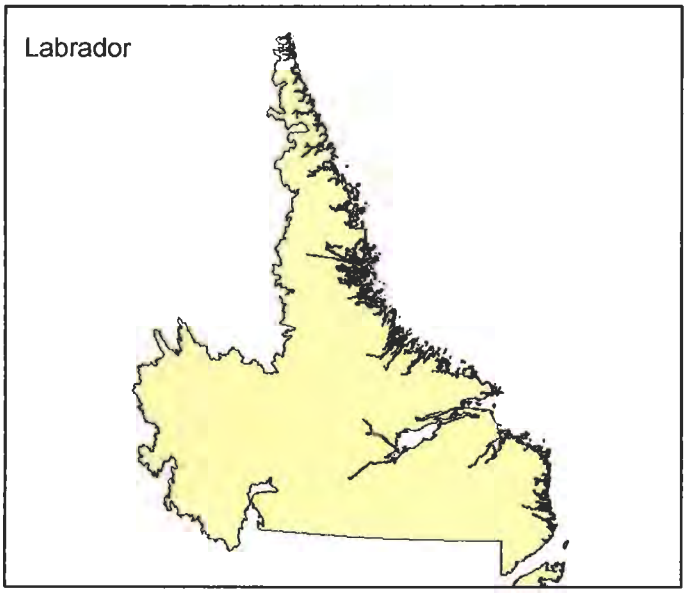


Figure 34: Trends in Vanadium in Canada-NL Water Quality Monitoring Agreement Sites





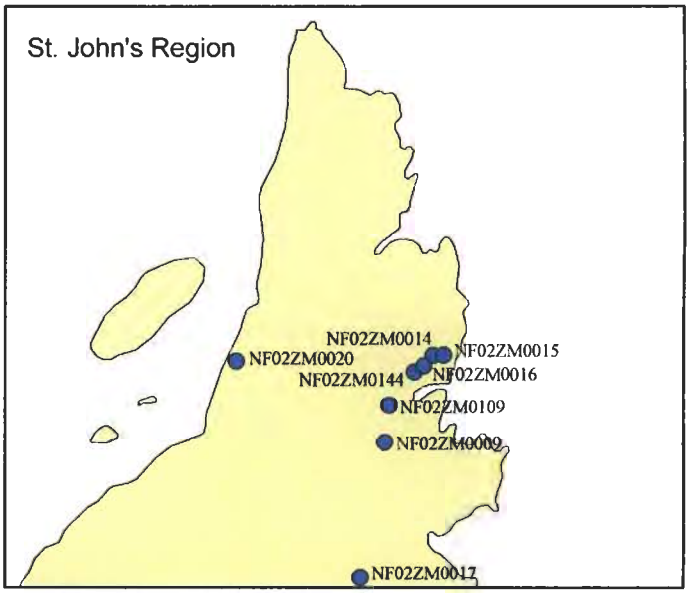
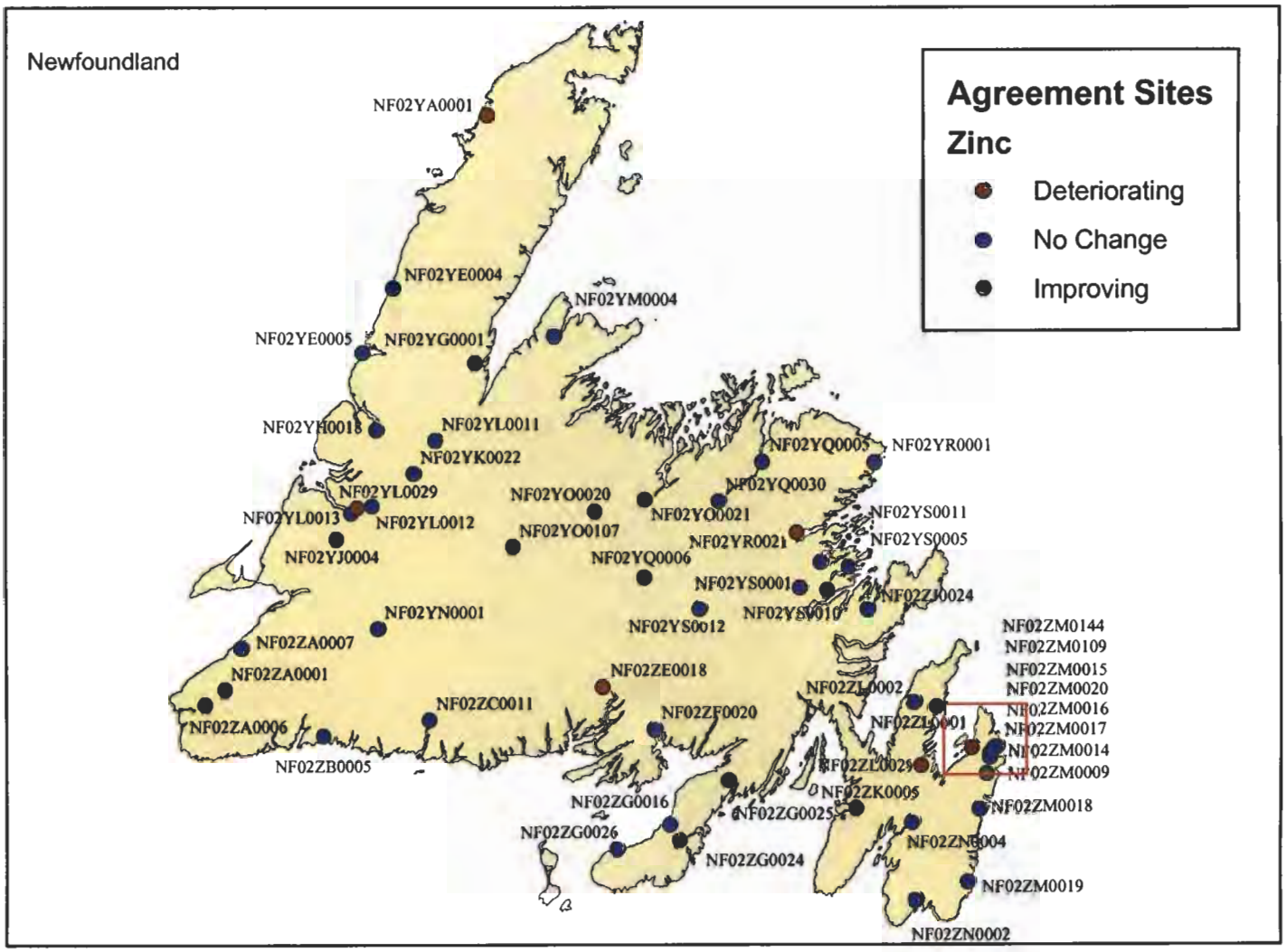
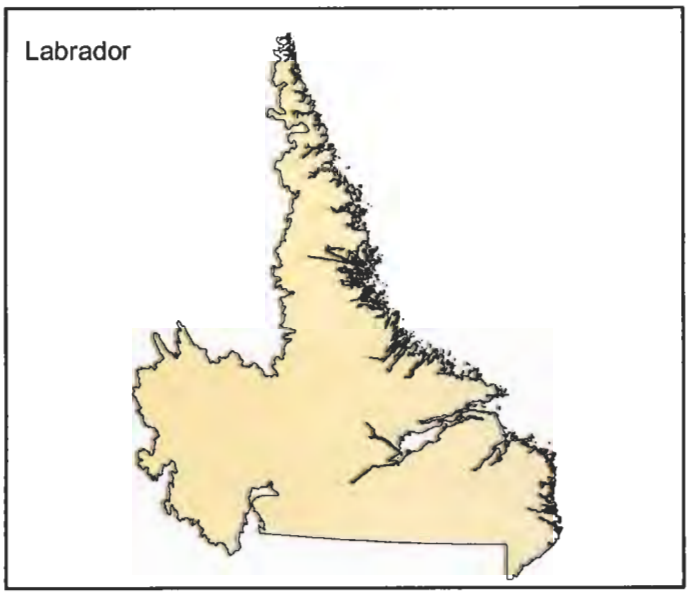
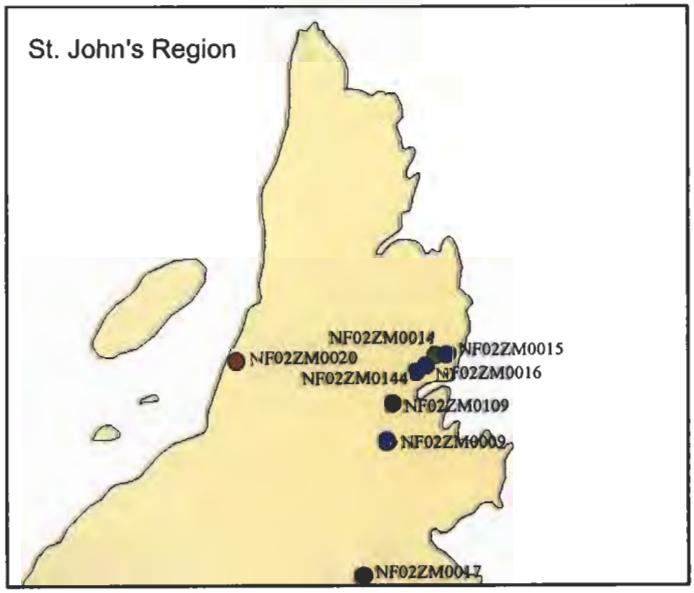


Figure 35: Trends in Zinc in Canada-NL Water Quality Monitoring Agreement Sites







Water Quality Index Ranking

Ranking	Site Name	Site Number	Aquatic CWQI
1	Lomond River	YH0018	88
2	Ste. Genevieve River	YA0001	87
3	Indian Brook	YM0001	87
4	Torrent River	YC0001	86
5	Pinchgut Brook	YJ0004	83
6	Exploits River (@ Grand Falls)	YO0001	81
7	Gander River (@ Appleton)	YQ0030	81
8	Corner Brook	YL0013	79
9	Grey River	ZD0003	79
10	Lloyds River	YN0001	79
11	Lower Humber	YL0012	79
12	Spout Cove Brook	ZL0001	78
13	Harrys River	YJ0006	78
14	Cing Cerf Brook	ZB0005	78
15	Gander River	YQ0005	78
16	Hearts Content Brook	ZL0002	77
17	Goulds Brook	ZL0029	77
18	Salmonier River	ZN0004	77
19	Humber Canal	YK0022	77
20	White Bear River	ZC0011	77
21	Isle aux Mort River	ZB0001	75
22	Portland Creek	YE0004	75
23	Tides Brook	ZG0024	74
24	Rattle Brook	ZG0025	74
25	Seal Cove River	ZM0019	74
26	Northwest Brook	ZN0002	74
27	Raymond Brook	ZM0017	74
28	Eagle River	QC0001	74
29	Grand Codroy	ZA0006	74
30	South Branch River	ZA0001	74
31	Bread Cove Brook	YS0010	74
32	Mobile River	ZM0018	73
33	Middle Brook	YR0021	73
34	Southern Bay River	ZJ0024	73
35	Grand Bank Brook	ZG0026	72
36	Northeast River	ZK0005	72
37	South West Brook (@ Baie Verte)	YM0004	72
38	Jeddore Lake	ZE0018	72
39	Western Brook	YE0005	71
40	Grandys Brook	ZC0001	71
41	South West Brook (@ Terra Nova Park)	YS0005	71
42	Pound Cove Brook	YR0001	71
43	Pipers Hole River	ZH0001	70
44	Rocky River	ZK0001	70
45	Broad Cove Brook	ZM0020	70
46	Wild Cove Brook	YL0029	70
47	North West Gander River	YQ0006	70
48	Garnish River	ZG0016	69
49	Upper Humber	YL0011	69
50	Quidi Vidi Lake	ZM0015	68
51	Main River	YG0001	68
52	Terra Nova River (@ Terra Nova)	YS0001	68
53	Bay du Nord River	ZF0020	68
54	Waterford River (@ Kilbride)	ZM0009	67
55	Terra Nova River (@ ES Spencer Bridge)	YS0011	67
56	Exploits River (@ Biships Falls)	YO0021	66
57	Virgina River (@ Boulevard)	ZM0014	65
58	Exploits River (@ Aspen Brook Park)	YO0020	65
59	Rennies River (@ Carnell Dr)	ZM0016	64
60	Churchill River	OE0001	63
61	Crabbes River	ZA0007	63
62	Exploits River (b/l Millertown Dam)	YO0107	63
63	Terra Nova River (@ Newton Lake)	YS0012	62
64	Mundy Pond	ZM0109	59
65	Kellys Brook	ZM0144	50

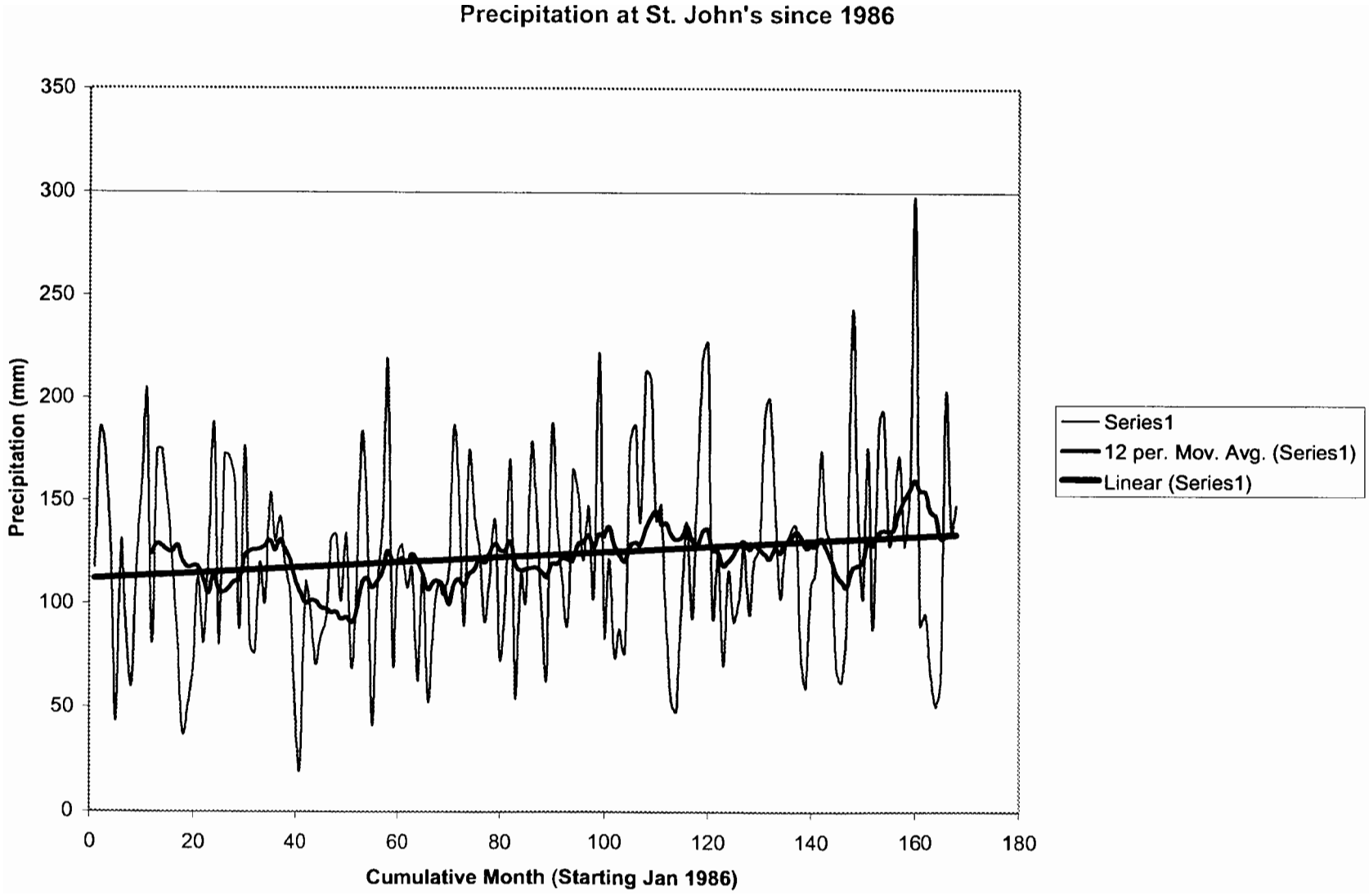
Labrador
Western
Central
Eastern

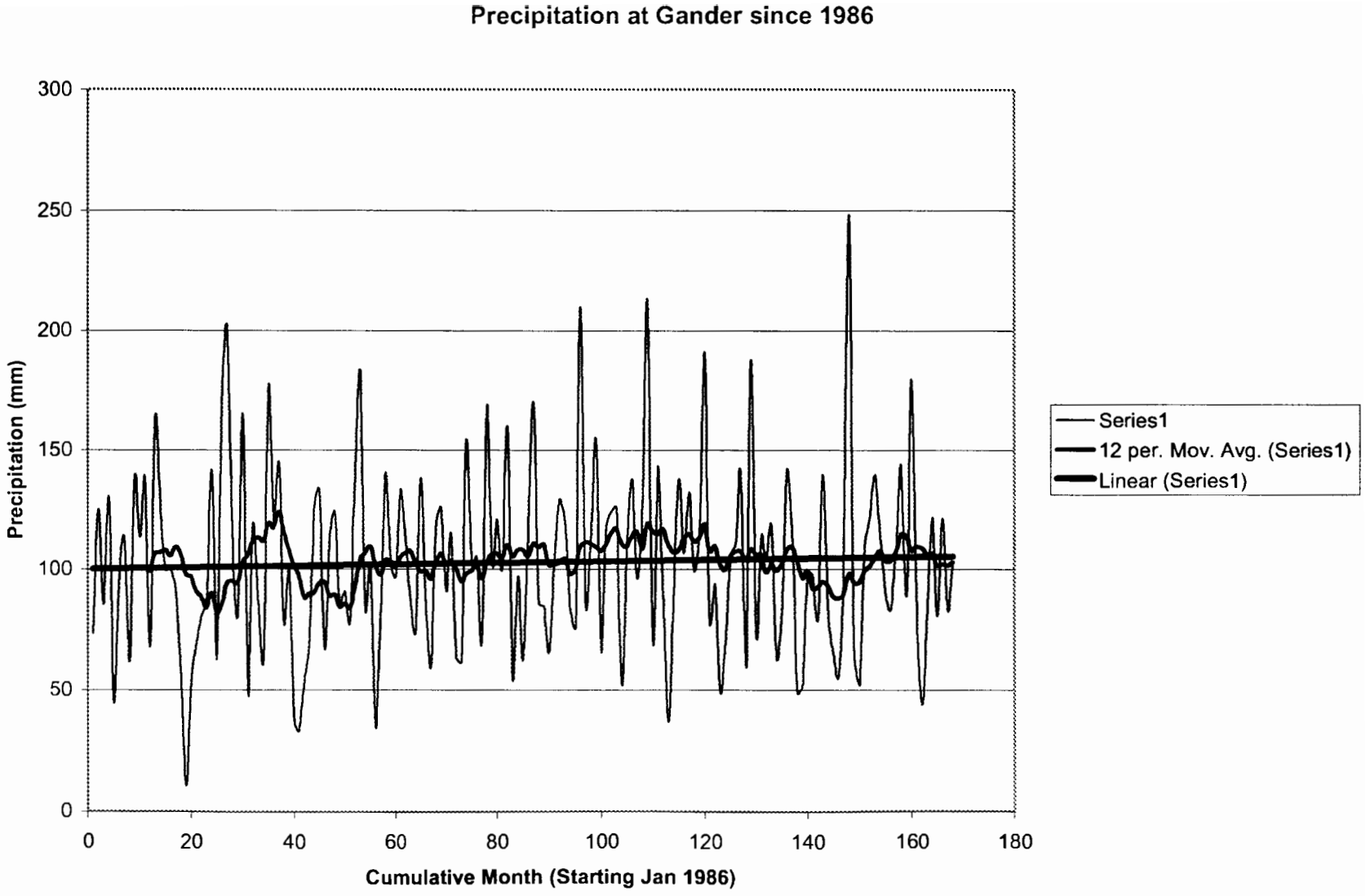
Watershed Development Level Index

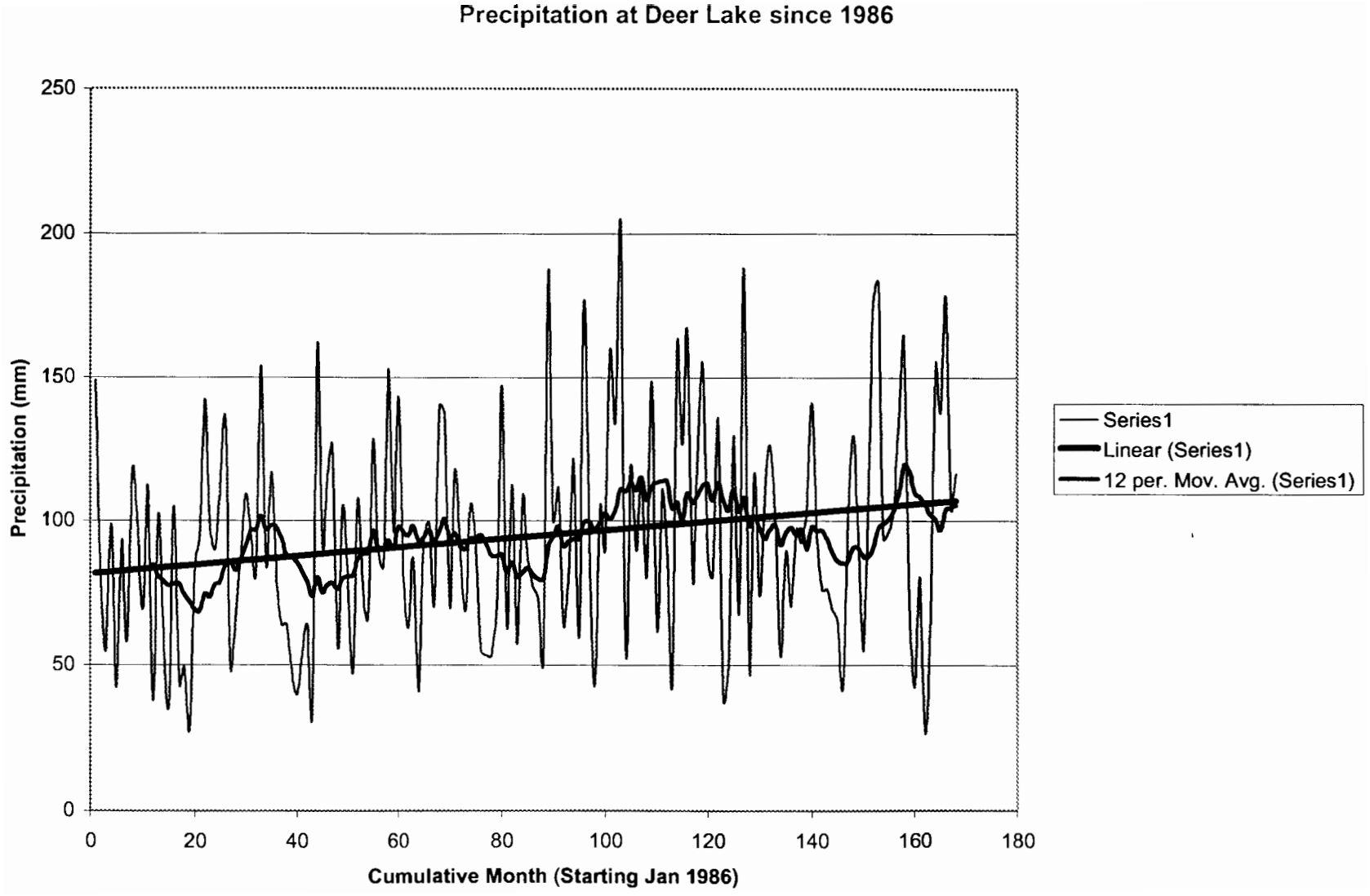
Ranking	Site Name	Site Number	Development Level	Development Category
1	Isle aux Mort River	ZB0001	0.273	Low
2	Rattle Brook	ZG0025	0.273	Low
3	White Bear River	ZC0011	0.364	Low
4	Eagle River	QC0001	0.364	Low
5	Bread Cove Brook	YS0010	0.364	Low
6	Western Brook	YE0005	0.364	Low
7	Terra Nova River (@ Newton Lake)	YS0012	0.364	Low
8	Spout Cove Brook	ZL0001	0.455	Low
9	Grandys Brook	ZC0001	0.455	Low
10	South West Brook (@ Terra Nova Park)	YS0005	0.455	Low
11	Grey River	ZD0003	0.545	Low
12	Southern Bay River	ZJ0024	0.545	Low
13	Pipers Hole River	ZH0001	0.545	Low
14	Wild Cove Brook	YL0029	0.545	Low
15	Bay du Nord River	ZF0020	0.545	Low
16	Ste. Genevieve River	YA0001	0.636	Low
17	Pinchgut Brook	YJ0004	0.636	Low
18	Portland Creek	YE0004	0.636	Low
19	Seal Cove River	ZM0019	0.636	Low
20	Garnish River	ZG0016	0.636	Low
21	Lloyds River	YN0001	0.727	Low
22	Gander River	YQ0005	0.727	Low
23	Northwest Brook	ZN0002	0.727	Low
24	South Branch River	ZA0001	0.727	Low
25	Pound Cove Brook	YR0001	0.727	Low
26	Torrent River	YC0001	0.818	Low
27	Cing Cerf Brook	ZB0005	0.818	Low
28	Tides Brook	ZG0024	0.818	Low
29	Middle Brook	YR0021	0.818	Low
30	Grand Bank Brook	ZG0026	0.818	Low
31	Main River	YG0001	0.818	Low
32	Mundy Pond	ZM0109	0.818	Low
33	Hearts Content Brook	ZL0002	0.909	Low
34	Northeast River	ZK0005	0.909	Low
35	Terra Nova River (@ Terra Nova)	YS0001	0.909	Low
36	Goulds Brook	ZL0029	1	Low
37	North West Gander River	YQ0006	1	Low
38	Upper Humber	YL0011	1	Low
39	Terra Nova River (@ ES Spencer Bridge)	YS0011	1	Low
40	Crabbes River	ZA0007	1	Low
41	Kellys Brook	ZM0144	1	Low
42	Salmonier River	ZN0004	1.091	Medium
43	Lomond River	YH0018	1.182	Medium
44	Grand Codroy	ZA0006	1.182	Medium
45	South West Brook (@ Baie Verte)	YM0004	1.182	Medium
46	Jeddore Lake	ZE0018	1.182	Medium
47	Rennies River (@ Carnell Dr)	ZM0016	1.182	Medium
48	Gander River (@ Appleton)	YQ0030	1.27	Medium
49	Harrys River	YJ0006	1.273	Medium
50	Mobile River	ZM0018	1.273	Medium
51	Broad Cove Brook	ZM0020	1.273	Medium
52	Quidi Vidi Lake	ZM0015	1.273	Medium
53	Virgina River (@ Boulevard)	ZM0014	1.273	Medium
54	Waterford River (@ Kilbride)	ZM0009	1.364	Medium
55	Indian Brook	YM0001	1.455	Medium
56	Rocky River	ZK0001	1.455	Medium
57	Exploits River (@ Aspen Brook Park)	YO0020	1.455	Medium
58	Corner Brook	YL0013	1.545	Medium
59	Raymond Brook	ZM0017	1.545	Medium
60	Exploits River (b/l Millertown Dam)	YO0107	1.636	Medium
61	Exploits River (@ Biships Falls)	YO0021	1.818	Medium
62	Churchill River	OE0001	1.818	Medium
63	Humber Canal	YK0022	2	Medium
64	Lower Humber	YL0012	2.091	High
65	Exploits River (@ Grand Falls)	YO0001	2.273	High

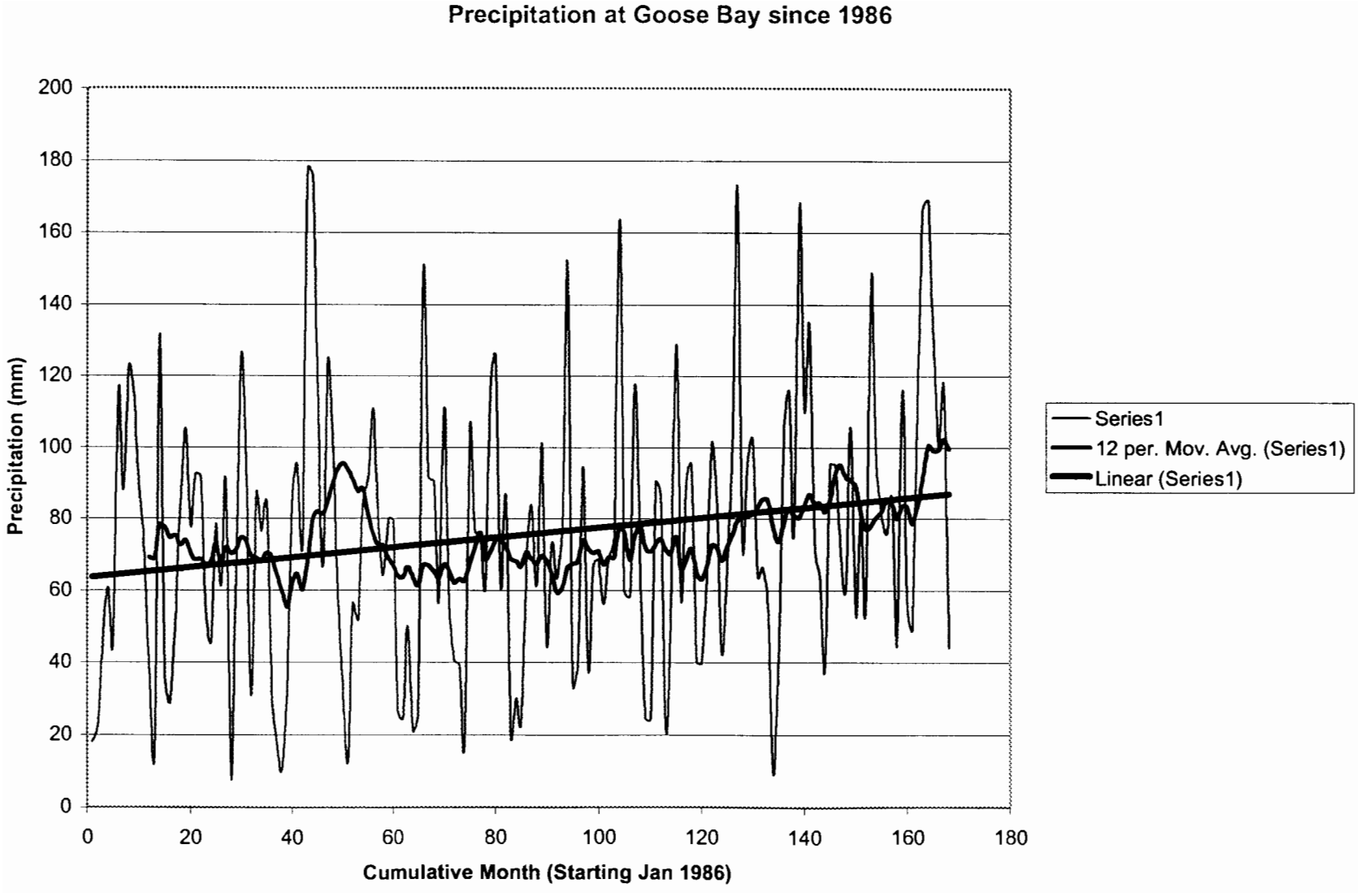
Labrador
Western
Central
Eastern

Appendix H:
Trends in Precipitation


Precipitation at St. John's since 1986
Precipitation (mm)
350
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
Cumulative Month (Starting Jan 1986)
Series1
12 per. Mov. Avg. (Series1)
Linear (Series1)


Precipitation at Gander since 1986
Precipitation (mm)
300
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
Cumulative Month (Starting Jan 1986)
Series1
12 per. Mov. Avg. (Series1)
Linear (Series1)


Precipitation at Deer Lake since 1986
Precipitation (mm)
250
200
150
100
50
0
0
20
40
60
80
100
120
140
160
180
Cumulative Month (Starting Jan 1986)
Series1
Linear (Series1)
12 per. Mov. Avg. (Series1)


Precipitation at Goose Bay since 1986
Precipitation (mm)
200
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
Cumulative Month (Starting Jan 1986)
Series1
12 per. Mov. Avg. (Series1)
Linear (Series1)

Appendix I:
Ranking of Agreement Water Quality Stations

Summary of Improving and Deteriorating Trends- Eastern Region

Site Name	Site Number	Total Parameters	Improving Trends	Deteriorating Trends
Waterford River (@ Kilbride)	ZM0009	35	7	10
Kellys Brook	ZM0144	35	18	1
Rennies River (@ Carnell Dr)	ZM0016	35	10	8
Quidi Vidi Outlet	ZM0015	35	9	6
Broad Cove Brook	ZL0020	35	2	13
Garnish River	ZG0016	35	2	3
Goulds Brook	ZL0029	35	7	12
Grand Bank Brook	ZG0026	35	7	0
Hearts Content Brook	ZL0002	35	7	6
Mobile River	ZM0018	35	8	3
Mundy Pond	ZM0109	35	15	1
Northeast River	ZK0005	35	5	6
Northwest Brook	ZN0002	35	6	8
Rattle Brook	ZG0025	35	8	1
Salmonier River	ZN0004	35	13	9
Seal Cove River	ZM0019	35	5	3
Spout Cove Brook	ZL0001	35	14	5
Tides Brook	ZG0024	35	10	6
Raymond Brook	ZM0017	35	8	6
Virgina River (@ Outlet to Quidi Vidi)	ZM0014	34	10	6
Rocky River	ZK0001	34	2	6
Pipers Hole River	ZH0001	17	6	3

Summary of Improving and Deteriorating Trends- Central Region

Site Name	Site Number	Total Parameters	Improving Trends	Deteriorating Trends
Terra Nova River (@ Terra Nova)	YS0001	35	2	9
Gander River	YQ0005	35	3	6
Middle Brook	YR0021	35	13	6
Southern Bay River	ZJ0024	35	7	6
Pound Cove Brook	YR0001	35	9	5
Terra Nova River (@ ES Spencer Bridge)	YS0011	35	3	5
Gander River (@ Appleton)	YQ0030	35	10	4
Bread Cove Brook	YS0010	35	12	4
South West Brook (@ Terra Nova National Park)	YS0005	35	15	4
South West Brook (@ Baie Verte)	YM0004	35	14	3
Exploits River (b/l Millertown Dam)	YO0107	35	22	2
North West Gander River	YQ0006	35	10	2
Terra Nova River (@ Newton Lake)	YS0012	35	7	2
Jeddore Lake	ZE0018	35	8	2
Bay du Nord River	ZF0020	35	9	0
Exploits River (@ Bishop Falls)	YO0021	34	12	4
Exploits River (@ Aspen Brook Park)	YO0020	34	17	1
Exploits River (@ Grand Falls)	YO0001	18	9	3
Indian Brook	YM0001	18	6	2

Summary of Improving and Deteriorating Trends- Western & Labrador Region

Site Name	Site Number	Total Parameters	Improving Trends	Deteriorating Trends
Western Brook	YE0005	35	7	12
Upper Humber	YL0011	35	3	5
Lower Humber	YL0012	35	6	8
Humber Canal	YK0022	35	4	4
Lloyds River	YN0001	35	4	7
Pinchgut Brook	YJ0004	35	9	10
Harrys River	YJ0006	34	8	4
Grand Codroy River	ZA0006	35	12	4
South Branch River	ZA0001	35	6	3
Cing Cerf Brook	ZB0005	35	3	4
Corner Brook	YL0013	35	3	7
Crabbe's River	ZA0007	35	4	4
Lomond River	YH0018	35	6	10
Main River	YG0001	35	8	3
Wild Cove Brook	YL0029	35	2	13
Ste Genevieve River	YA0001	35	4	12
Portland Creek	YE0004	35	11	14
White Bear River	ZC0011	35	6	5
Grandy Brook	ZC0001	34	5	3
Grey River	ZD0003	17	6	1
Isle aux Mort River	ZB0001	16	4	1
Torrent River	YC0001	18	6	2
Churchill Falls	OE0001	16	1	3
Eagle River	QC0001	17	3	2

Canadian Water Quality Index Values- Eastern Region

Site Name	Site Number	Overall WQI	Drinking WQI	Aquatic WQI
Tides Brook	ZG0024	75	81	74
Grand Bank Brook	ZG0026	74	81	72
Rattle Brook	ZG0025	77	84	74
Pipers Hole River	ZH0001	71	78	70
Spout Cove Brook	ZL0001	78	87	78
Northeast River	ZK0005	73	80	72
Seal Cove River	ZM0019	74	81	74
Mobile River	ZM0018	73	79	73
Hearts Content Brook	ZL0002	77	85	77
Northwest Brook	ZN0002	75	82	74
Garnish River	ZG0016	70	76	69
Raymond Brook	ZM0017	74	80	74
Goulds Brook	ZL0029	76	80	77
Rocky River	ZK0001	67	72	70
Broad Cove Brook	ZM0020	73	83	70
Salmonier River	ZN0004	77	81	77
Kellys Brook	ZM0144	45	52	50
Quidi Vidi Lake	ZM0015	64	73	68
Rennies River (@ Carnell Dr)	ZM0016	61	68	64
Virgina River (@ Boulevard)	ZM0014	63	75	65
Waterford River (@ Kilbride)	ZM0009	64	71	67
Mundy Pond	ZM0109	54	62	59

Canadian Water Quality Index Values- Central Region

Site Name	Site Number	Overall WQI	Drinking WQI	Aquatic WQI
Exploits River (b/l Millertown Dam)	YO0107	68	79	63
Exploits River (@ Aspen Brook Park)	YO0020	69	79	65
Exploits River (@ Grand Falls)	YO0001	79	84	81
Exploits River (@ Bishops Falls)	YO0021	69	78	66
South West Brook (@ Baie Verte)	YM0004	69	75	72
Gander River	YQ0005	76	81	78
North West Gander River	YQ0006	71	79	70
Gander River (@ Appleton)	YQ0030	81	86	81
Middle Brook	YR0021	79	87	73
Terra Nova River (@ Terra Nova)	YS0001	70	79	68
South West Brook (@ Terra Nova Park)	YS0005	69	73	71
Bread Cove Brook	YS0010	75	81	74
Terra Nova River (@ ES Spencer Bridge)	YS0011	70	79	67
Terra Nova River (@ Newton Lake)	YS0012	64	73	62
Jeddore Lake	ZE0018	74	81	72
Bay du Nord River	ZF0020	71	84	68
Southern Bay River	ZJ0024	73	80	73
Indian Brook	YM0001	79	81	87
Pound Cove Brook	YR0001	71	75	71

Canadian Water Quality Index Values- Western & Labrador Regions

Site Name	Site Number	Overall WQI	Drinking WQI	Aquatic WQI
Churchill River	OE0001	53	59	63
Wild Cove Brook	YL0029	64	69	70
Eagle River	QC0001	66	70	74
Crabbes River	ZA0007	68	80	63
Main River	YG0001	70	78	68
Upper Humber	YL0011	71	80	69
Grand Codroy	ZA0006	74	82	74
Western Brook	YE0005	76	87	71
Isle aux Mort River	ZB0001	76	78	75
Grandys Brook	ZC0001	76	86	71
Portland Creek	YE0004	77	86	75
Harrys River	YJ0006	77	85	78
South Branch River	ZA0001	77	85	74
Corner Brook	YL0013	78	86	79
Grey River	ZD0003	79	81	79
Humber Canal	YK0022	80	89	77
Lloyds River	YN0001	80	87	79
Cing Cerf Brook	ZB0005	80	89	78
Torrent River	YC0001	81	86	86
Lower Humber	YL0012	81	89	79
White Bear River	ZC0011	81	86	77
Ste. Genevieve River	YA0001	86	93	87
Lomond River	YH0018	87	93	88
Pinchgut Brook	YJ0004	87	96	83

Water Quality Index Ranking

Ranking	Site Name	Site Number	Aquatic CWQI
1	Lomond River	YH0018	88
2	Ste. Genevieve River	YA0001	87
3	Indian Brook	YM0001	87
4	Torrent River	YC0001	86
5	Pinchgut Brook	YJ0004	83
6	Exploits River (@ Grand Falls)	YO0001	81
7	Gander River (@ Appleton)	YQ0030	81
8	Corner Brook	YL0013	79
9	Grey River	ZD0003	79
10	Lloyds River	YN0001	79
11	Lower Humber	YL0012	79
12	Spout Cove Brook	ZL0001	78
13	Harrys River	YJ0006	78
14	Cing Cerf Brook	ZB0005	78
15	Gander River	YQ0005	78
16	Hearts Content Brook	ZL0002	77
17	Goulds Brook	ZL0029	77
18	Salmonier River	ZN0004	77
19	Humber Canal	YK0022	77
20	White Bear River	ZC0011	77
21	Isle aux Mort River	ZB0001	75
22	Portland Creek	YE0004	75
23	Tides Brook	ZG0024	74
24	Rattle Brook	ZG0025	74
25	Seal Cove River	ZM0019	74
26	Northwest Brook	ZN0002	74
27	Raymond Brook	ZM0017	74
28	Eagle River	QC0001	74
29	Grand Codroy	ZA0006	74
30	South Branch River	ZA0001	74
31	Bread Cove Brook	YS0010	74
32	Mobile River	ZM0018	73
33	Middle Brook	YR0021	73
34	Southern Bay River	ZJ0024	73
35	Grand Bank Brook	ZG0026	72
36	Northeast River	ZK0005	72
37	South West Brook (@ Baie Verte)	YM0004	72
38	Jeddore Lake	ZE0018	72
39	Western Brook	YE0005	71
40	Grandys Brook	ZC0001	71
41	South West Brook (@ Terra Nova Park)	YS0005	71
42	Pound Cove Brook	YR0001	71
43	Pipers Hole River	ZH0001	70
44	Rocky River	ZK0001	70
45	Broad Cove Brook	ZM0020	70
46	Wild Cove Brook	YL0029	70
47	North West Gander River	YQ0006	70
48	Garnish River	ZG0016	69
49	Upper Humber	YL0011	69
50	Quidi Vidi Lake	ZM0015	68
51	Main River	YG0001	68
52	Terra Nova River (@ Terra Nova)	YS0001	68
53	Bay du Nord River	ZF0020	68
54	Waterford River (@ Kilbride)	ZM0009	67
55	Terra Nova River (@ ES Spencer Bridge)	YS0011	67
56	Exploits River (@ Biships Falls)	YO0021	66
57	Virgina River (@ Boulevard)	ZM0014	65
58	Exploits River (@ Aspen Brook Park)	YO0020	65
59	Rennies River (@ Carnell Dr)	ZM0016	64
60	Churchill River	OE0001	63
61	Crabbes River	ZA0007	63
62	Exploits River (b/l Millertown Dam)	YO0107	63
63	Terra Nova River (@ Newton Lake)	YS0012	62
64	Mundy Pond	ZM0109	59
65	Kellys Brook	ZM0144	50

Labrador
Western
Central
Eastern

Watershed Development Level Index

Ranking	Site Name	Site Number	Development Level	Development Category
1	Isle aux Mort River	ZB0001	0.273	Low
2	Rattle Brook	ZG0025	0.273	Low
3	White Bear River	ZC0011	0.364	Low
4	Eagle River	QC0001	0.364	Low
5	Bread Cove Brook	YS0010	0.364	Low
6	Western Brook	YE0005	0.364	Low
7	Terra Nova River (@ Newton Lake)	YS0012	0.364	Low
8	Spout Cove Brook	ZL0001	0.455	Low
9	Grandys Brook	ZC0001	0.455	Low
10	South West Brook (@ Terra Nova Park)	YS0005	0.455	Low
11	Grey River	ZD0003	0.545	Low
12	Southern Bay River	ZJ0024	0.545	Low
13	Pipers Hole River	ZH0001	0.545	Low
14	Wild Cove Brook	YL0029	0.545	Low
15	Bay du Nord River	ZF0020	0.545	Low
16	Ste. Genevieve River	YA0001	0.636	Low
17	Pinchgut Brook	YJ0004	0.636	Low
18	Portland Creek	YE0004	0.636	Low
19	Seal Cove River	ZM0019	0.636	Low
20	Garnish River	ZG0016	0.636	Low
21	Lloyds River	YN0001	0.727	Low
22	Gander River	YQ0005	0.727	Low
23	Northwest Brook	ZN0002	0.727	Low
24	South Branch River	ZA0001	0.727	Low
25	Pound Cove Brook	YR0001	0.727	Low
26	Torrent River	YC0001	0.818	Low
27	Cing Cerf Brook	ZB0005	0.818	Low
28	Tides Brook	ZG0024	0.818	Low
29	Middle Brook	YR0021	0.818	Low
30	Grand Bank Brook	ZG0026	0.818	Low
31	Main River	YG0001	0.818	Low
32	Mundy Pond	ZM0109	0.818	Low
33	Hearts Content Brook	ZL0002	0.909	Low
34	Northeast River	ZK0005	0.909	Low
35	Terra Nova River (@ Terra Nova)	YS0001	0.909	Low
36	Goulds Brook	ZL0029	1	Low
37	North West Gander River	YQ0006	1	Low
38	Upper Humber	YL0011	1	Low
39	Terra Nova River (@ ES Spencer Bridge)	YS0011	1	Low
40	Crabbes River	ZA0007	1	Low
41	Kellys Brook	ZM0144	1	Low
42	Salmonier River	ZN0004	1.091	Medium
43	Lomond River	YH0018	1.182	Medium
44	Grand Codroy	ZA0006	1.182	Medium
45	South West Brook (@ Baie Verte)	YM0004	1.182	Medium
46	Jeddore Lake	ZE0018	1.182	Medium
47	Rennies River (@ Carnell Dr)	ZM0016	1.182	Medium
48	Gander River (@ Appleton)	YQ0030	1.27	Medium
49	Harrys River	YJ0006	1.273	Medium
50	Mobile River	ZM0018	1.273	Medium
51	Broad Cove Brook	ZM0020	1.273	Medium
52	Quidi Vidi Lake	ZM0015	1.273	Medium
53	Virgina River (@ Boulevard)	ZM0014	1.273	Medium
54	Waterford River (@ Kilbride)	ZM0009	1.364	Medium
55	Indian Brook	YM0001	1.455	Medium
56	Rocky River	ZK0001	1.455	Medium
57	Exploits River (@ Aspen Brook Park)	YO0020	1.455	Medium
58	Corner Brook	YL0013	1.545	Medium
59	Raymond Brook	ZM0017	1.545	Medium
60	Exploits River (b/l Millertown Dam)	YO0107	1.636	Medium
61	Exploits River (@ Biships Falls)	YO0021	1.818	Medium
62	Churchill River	OE0001	1.818	Medium
63	Humber Canal	YK0022	2	Medium
64	Lower Humber	YL0012	2.091	High
65	Exploits River (@ Grand Falls)	YO0001	2.273	High

Labrador
Western
Central
Eastern