

**PRMRWSA  
TREATMENT  
FACILITY**

STATE ROAD  
No. 761



SHELL  
POINT

**1999 HBMP**

SHELL  
CREEK

**Data Report**

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  1. Peace River at Arcadia
  2. Horse Creek near Arcadia
  3. Joshua Creek near Nocatee
  4. Shell Creek near Punta Gorda
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## Chapter I

### Introduction / Summary

#### 1.1 Previous Studies and Reports

On December 10, 1975, the consumptive use permit #7500016 for the Peace River Regional Water Supply Facility was signed between General Development Utilities, Inc. and the Southwest Florida Water Management District (SWFWMD). In conjunction with this agreement, a comprehensive Hydrobiological Monitoring Program (HBMP), was set forth to assess the responses of various physical, chemical and biological characteristics of the Charlotte Harbor estuary to changes in Peace River flow. The program was designed to evaluate the impacts and significance of natural salinity changes on the aquatic fauna and flora in upper Charlotte Harbor, and to determine if freshwater withdrawals by the Peace River Regional Water Supply Facility could be shown to alter these patterns. The area of study is shown in [Figure 1.1](#).

A series of twenty-one previous reports have been filed (February 1979, December 1980, July 1981, August 1982, September 1983, August 1984, July 1985, August 1986, August 1987, September 1989, December 1990, August 1991, August 1992, December 1992, July 1993, August 1994, July 1995, September 1997, December 1997, December 1998, and November 1999) with the SWFWMD, documenting the results of the HBMP during the period from January 1976 through December 1998. These reports include summarizations (findings) of data collected during the first four years of baseline monitoring, prior to the start of freshwater withdrawals, as well as comparisons of these data to the results obtained from the HBMP during subsequent years of water treatment plant operation. The period covered within this Annual Data Report follows directly upon that contained within the preceding data report submitted in November, 1999 and includes unreported data collected from January through December 1999. This represents the tenth year of data collection for the Peace River/Manasota Regional Water Supply Authority, owner/operator of the Peace River Regional Water Supply Facility.

The initial HBMP was designed in 1976 to provide answers to specific questions dealing with possible salinity changes in Charlotte Harbor raised by SWFWMD staff during the original permitting process. Analysis of data from pre and post water treatment plant operation, presented in the August 1982 Summary Report, indicated the need to revise the monitoring program in order to better evaluate possible changes in the Charlotte Harbor system due to natural variations in freshwater inflows. Further modifications of the HBMP were made in 1985 and again in conjunction with the renewal of the consumptive use permit in November 1988. Under the 1988 permit, data reports were submitted for the first through fifth years of the monitoring program. In addition two expanded, Comprehensive Summary Reports were

submitted which included various comparative analyses of the data reported over the preceding periods of data. The first of these Comprehensive Summary Reports was finalized in December

1993 and included analyses of long-term data collected between 1983 and 1991. The next Comprehensive Summary Report was filed in draft form in 1994, and as a final report in April 1995. This second summary report statistically summarized and evaluated the results of the HBMP elements conducted between 1976 and 1993. In this document it was stated that, “To date, no observed short-term seasonal or long-term trends in any of the physical/chemical or biological parameters measured in this extensive investigation of the Upper Charlotte Harbor estuary have shown any influence by current water withdrawals by the Peace River Regional Water Facility”.

## **1.2 Current Hydrobiological Monitoring Program**

Based on the results of these summary reports, and additional analyses requested by District staff during the permit renewal process, an expanded HBMP was approved by the District in March 1996 as a part of WUP#2010420.03 for implementation in 1996 and subsequent years. This 20 year Water Use Permit continues to require the submission of both Annual Data Reports as well as Comprehensive Summary Documents after data collection for the 3<sup>rd</sup> and 5<sup>th</sup> years of each five year period. Specific conditions within the permit include major expansions of both the physical and biological elements of the Hydrobiological Monitoring Program.

### **1.2.1 Ongoing HBMP Program Study Elements**

An explicit element of the updated HBMP was the development of standardized station descriptors to be applied across all program elements. As part of the required morphometric study (see description below), the “mouth” of the Peace River was defined using USGS standardized protocols as an imaginary line extending from Punta Gorda Point to Hog Island (**Figure 1.2**). Table 1.1 provides a summary of the locations of all of the ongoing long-term fixed study elements, and provides a cross-reference to previous station identifications. The following briefly outlines each of the current HBMP study elements.

### **1.2.2 Continuous Recorders**

The primary goal of this element of the HBMP was to develop an extensive database of short-term (daily or more frequent) changes in surface and near bottom salinity in the lower Peace River. These data, combined with corresponding gage height, freshwater flows and withdrawals would then be used to develop detailed spatial and temporal relationships. A secondary goal was to assess potential long-term changes in river salinity, which might be explained by predicted increases in sea level.

**Table 1.1 HBMP Fixed Sampling Locations**

| <b>USGS River Mile</b>                                        | <b>USGS Location Number</b> | <b>Previous EQL Station Number</b> | <b>Additional Sampling</b>           | <b>New River Kilometer designation based on Morphometric Study</b> |
|---------------------------------------------------------------|-----------------------------|------------------------------------|--------------------------------------|--------------------------------------------------------------------|
| <b>Current <i>In Situ</i> Water Column Profile Sampling</b>   |                             |                                    |                                      |                                                                    |
| CH6                                                           | 265355082075500             | 9                                  | Water Quality                        | -2.4                                                               |
| RM3.95                                                        | 265640082033500             | 10                                 | Water Quality                        | 6.6                                                                |
| RM4.88                                                        | 265724082024400             | 21                                 |                                      | 8.4                                                                |
| RM6.25                                                        | 265727082012800             | 11                                 |                                      | 10.5                                                               |
| RM8.61                                                        | 265711081595500             | Shell Creek 9                      |                                      | 12.7                                                               |
| RM8.6B                                                        | 265819082003200             | 22                                 |                                      | 12.8                                                               |
| RM10.2                                                        | 2297460                     | 12                                 | Water Quality/Tide Gage/Conductivity | 15.5                                                               |
| RM11.2                                                        | 270022081591000             | 23                                 |                                      | 17.5                                                               |
| RM 12.55                                                      | 270124081592500             | 13                                 |                                      | 20.1                                                               |
| RM13.95                                                       | 270235081592400             | 24                                 |                                      | 21.9                                                               |
| RM14.82                                                       | 270318081593100             | 14                                 | Water Quality                        | 23.6                                                               |
| RM15.45                                                       | 270337081595800             | 25                                 |                                      | 24.7                                                               |
| RM16.29                                                       | 270418082001600             | 15                                 |                                      | 25.9                                                               |
| N/A                                                           | 2297350                     | N/A                                | Tide Gage/ Conductivity              | 26.7                                                               |
| RM18.25                                                       | 270451081595100             | 17                                 |                                      | 29.5                                                               |
| RM18.95                                                       | 2297330                     | 18                                 | Water Quality                        | 30.4                                                               |
| RM19.5                                                        | 270537081585800             | 19                                 |                                      | 32.3                                                               |
| <b>Vegetation Transect Locations</b>                          |                             |                                    |                                      |                                                                    |
| N/A                                                           | N/A                         | I                                  |                                      | 15.6                                                               |
| N/A                                                           | N/A                         | II                                 |                                      | 22.3                                                               |
| N/A                                                           | N/A                         | III                                |                                      | 20.4                                                               |
| <b>Previous EQL Water Column and Chemistry Sampling Sites</b> |                             |                                    |                                      |                                                                    |
| N/A                                                           | N/A                         | 16                                 |                                      | 27.1                                                               |
| N/A                                                           | N/A                         | 20                                 |                                      | 34.1                                                               |

In 1996 the U.S. Geological Survey (USGS) installed automated 15-minute interval water level recorders at two locations:

- At Boca Grande which is the estuary's largest opening to the Gulf of Mexico; and
- Approximately 15.5 kilometers upstream of the river's mouth at Harbour Heights. The gaging station at Harbour Heights also measures surface and bottom conductivity at 15-minute intervals.

In November 1997 a third gage was installed at approximately river kilometer (RK) 26.7 just downstream of the Peace River Facility. This gage also measures both water level as well as surface and bottom conductivity at 15-minute intervals. The relative locations of each of these three USGS gages are depicted in [Figure 3.1a](#).

### 1.2.3 Water Chemistry and Water Column Physical Profiles

There are a number of goals associated with the study elements in which physical and chemical water quality are measured. On an overall "Health of the Harbor" level, a primary goal is to collect sufficient long-term data to statistically describe spatial and seasonal variability in the water quality characteristics of the Lower Peace River/Upper Charlotte Harbor estuary, and test for significant changes over time (trends). A second goal is to determine if significant relationships exist between freshwater inflows and the seasonal/spatial variability of these water quality parameters. If such relationships can be shown, then the ultimate goal is to determine the potential magnitude of change that might result from permitted withdrawals, and compare such predictions with the range of observed natural variability.

Physical and chemical water quality parameters are measured within the Lower Peace River/Upper Charlotte Harbor estuary under two different HBMP study elements. The first is the monthly "fixed" station water quality characterization study being conducted by the USGS. Additional water quality measurements are also conducted in conjunction with the monthly "moving" isohaline station phytoplankton/primary production study being conducted by Environmental Quality Laboratory (EQL). Physical *in situ* water column profile measurement of water quality characteristics (temperature, dissolved oxygen, pH, conductivity and salinity) are made at 0.5 meter intervals during both of these study elements. In addition both HBMP study elements measure the penetration of photosynthetically active radiation (PAR) to determine ambient extinction coefficients at each sampling location. Both studies also include the analyses of an extensive list of chemical water quality parameters (Table 1.2). The only difference is that at the "fixed" stations sampled by the USGS, both sub-surface and near-bottom samples are collected at each site, while EQL only collects sub-surface samples as part of its phytoplankton/primary production study.

**"Fixed" Station Locations** - This study element requires the USGS to conduct monthly water column physical profiles near high tide at sixteen locations along a transect running from just below the river's mouth upstream to a point just above the Peace River Facility (see [Figure 1.2](#)



and Table 1.1). Sub-surface and near-bottom samples are also collected at five of these locations for the measurement of selected chemical parameters.

**“Moving” Salinity Based Stations** – EQL staff conduct physical water column profiles and take sub-surface water chemistry samples monthly within two hours of noon at four salinity based isohalines (0, 6, 12 and 20 ppt) along an imaginary center line running down the Peace River from above its junction with Horse Creek to Boca Grande Pass. The relative monthly location of each sampling is based on the first occurrence of each isohaline.

| <b>Table 1.2 HBMP Chemical Water Quality Measurements</b> |                            |                                                                                                                       |
|-----------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Salinity                                                  | Nitrate + Nitrite Nitrogen | Inorganic Carbon                                                                                                      |
| Chloride                                                  | Ammonia/Ammonium Nitrogen  | Total Organic Carbon                                                                                                  |
| Color                                                     | Total Kjeldahl Nitrogen    | Dissolved Organic Carbon                                                                                              |
| Turbidity                                                 | Total Nitrogen             | Chlorophyll <i>a</i><br>both total and by size fraction<br>1) > 20 <i>u</i><br>2) 5 to 20 <i>u</i><br>3) 5 > <i>u</i> |
| Alkalinity                                                | Ortho-Phosphorus           |                                                                                                                       |
| Suspended Solids                                          | Total Phosphorus           |                                                                                                                       |
| Volatile Solids                                           | Silica                     |                                                                                                                       |

#### 1.2.4 HBMP Study of Long-Term Changes in Vegetation

Identification of potential adverse effects to emergent vegetation and riverine wetlands caused by freshwater withdrawals initially requires determining the magnitude of the spatial and temporal responses of these vegetative communities to the natural variation resulting from extended periods of drought and flood. This step involves developing methodologies that allow differentiating between long-term natural changes in riverine vegetative patterns and withdrawal induced changes. The vegetative monitoring elements of the HBMP provide information for determining relationships between vegetation patterns and freshwater flows by observing the positions of the freshwater and salt-tolerant plant communities, especially in the salinity transitional zone of the river. A permanent shift of more salt-tolerant plants upriver could be an indication that withdrawals were impacting the river corridor wetlands, as long as natural variability (drought) or man-made causes could be eliminated. All vegetation elements of the HBMP studies are currently being done by Florida Environmental, Inc.

**Photointerpretation** - This long-term element of the HBMP initially began in 1976. Initially aerial infra-red photography was taken yearly of the vegetative communities along the lower Peace River, starting at the US 41 Bridge (river kilometer 6.6) and extending upstream above the Peace River Facility to near the area where Horse Creek enters the river (river kilometer 39.5). Under the 1996 HBMP permit modifications, such aerial surveys continue to be conducted at two years intervals. All post-1996 aerial photography are taken in a corrected, GIS compatible format, thus allowing for accurate quantification of any observed changes. Photointerpretation

of these images, in conjunction with field observations, will periodically be used to develop maps of the river's vegetation associations. Both qualitative and quantitative data is being used to assess potential changes associated with extended natural periods of both low and high freshwater inflows.

**First and Last Occurrence of Indicator Plant Species** – Since 1976, at approximately two year intervals, the first and last occurrence of a large number of indicator plant species has been recorded along the banks of the Peace River downstream of the Peace River Facility. As part of the vegetation study element of the HBMP, detailed maps using the standardized river kilometer scale are made, identifying the first and last occurrences of individual and substantial populations of key indicator species. The current permit requires a detailed photographic record be compiled in conjunction with this effort. These data is used in conjunction with the aerial photography to assess the influences of long-term natural variations in river flow.

**Vegetation Transition Sites** – Under the current permit, this portion of the HBMP study extends and expands the detailed monitoring begun in 1979 of plant communities along the river's banks at fixed locations. The vegetative communities at three permanent transects sites (see [Figure 1.3](#) and Table 1.1) are sampled at two year intervals. At each monitoring location, three transects from the top of the bank to the water's edge are surveyed. The vegetation one meter to each side of the transects is identified, and the location and density recorded. These long-term data can be used to further assess the response of the riverine vegetative communities to natural variations in freshwater flows.

### 1.2.5 Phytoplankton Studies

Environmental Quality Laboratory, Inc is conducting these HBMP investigations. Sub-surface samples are being collected in conjunction with the moving station physical and chemical water quality data described above.

**Carbon Uptake** - Since 1983, monthly *in situ* measurements have been conducted within 2 hours of noon at each of the four “moving” isohalines (0, 6, 12, 20 ppt salinity). Replicate (5) rates of carbon uptake are determined for each of three separate phytoplankton size fractions: 1) greater than 20 microns; 2) less than 20 microns and greater than 5 microns; and 3) those cells less than 5 microns.

**Chlorophyll *a* Biomass** - corresponding values for sub-surface concentrations are determined for each of the above size fractions.

**Species Composition** - Since 1989, monthly sub-surface samples have been collected, preserved and identified to the lowest practical taxon in conjunction with the carbon uptake measurements at each of the four isohalines. Dr. Susan Jensen has made all taxonomic identifications.

### **1.3 Special Studies Associated with the HBMP**

In addition to the current, ongoing elements of the HBMP outlined above, the revised HBMP program implemented in 1996 also required the Authority to conduct and/or contribute to a number of duration-limited studies designed to answer specific research questions. The following outlines the major goals of each of these special studies. Each of these special investigations will result in a stand-alone report to be submitted to the District. Where applicable, all pertinent data collected during these specific research studies will be incorporated into other study elements of the HBMP.

#### **1.3.1 Morphometric Investigation**

The goal of this effort, conducted by PBS&J, was to develop maps and tabular files indicating: typical cross-sections; open-water area; water volume; shoreline length; and areas/types of adjacent wetland habitat. All such determinations and metrics were determined corresponding to 0.5 kilometer interval segments along a developed centerline extending from the mouth of the Peace River near Punta Gorda to a point well upstream of the Water Peace River Facility. In addition, a summary table was developed indicating the locations of both current and previous fixed water quality and vegetation sampling locations in relation to the new centerline kilometer distance scale developed during the morphometric analysis. The results of the morphometric study have been submitted to the District as a separate report. Table 1.1 and **Figure 1.2** indicate the permanent river kilometer distances that will be used in all future HBMP documents, in relation to both USGS river miles and EQL station locations.

#### **1.3.2 Benthic Macroinvertebrate and Mollusc Study**

This special study element of the HBMP is being conducted by Mote Marine Laboratory, and a separate report summarizing the findings is expected early in 2001. The primary objectives of the two investigations being conducted as part of this effort are to:

- Describe the distribution of major macroinvertebrate habitats and communities in the lower Peace River.
- Determine whether benthic organisms and/or their community structure can be used to assess natural variations in freshwater inflows and, measure potential influences caused by the diversions of the Peace River Facility.

The approach of these studies has been to characterize the tidal area of the river downstream of the Peace River Facility based on a series of criteria, including: 1) the magnitude of tidal influence, 2) dominant shoreline habitats, and 3) observed gradients in physical and/or chemical characteristics, or other features found to be significant. Important riverine characteristics of significance to the distribution of benthic invertebrate communities would include physical/chemical parameters such as the sediment granulometry of the riverbed, as well as spatial differences with depth, salinity and dissolved oxygen.

**Macroinvertebrates** – The design of this sampling effort incorporated dividing the lower Peace River into four “salinity segments” based on historic gradients from data gathered as part of the HBMP.

- < 0.5 ppt
- > 0.5 & < 8 ppt
- > 8 & < 16 ppt
- > 16 ppt

Core samples, the colonization of artificial substrates, and sweep nets were used to characterize the benthic invertebrate communities from two depths: 1) the intertidal zone; and 2) from Mean Low Low Water down to a depth of 3.7 meters; within each of the four identified salinity zones.

**Mollusc Study** - A second corollary investigation has been undertaken of the distribution of benthic, hard-shell mollusc communities, examining both live and dead shells to delineate ecological zones in the estuary and attempting to relate the observed patterns to recent seasonal patterns in flows and observed variations in near bottom salinity. This investigation has incorporated intensive sampling at 0.5 km intervals along the lower river.

### **1.3.3 Fish Nursery Study**

The University of South Florida is undertaking this special short-term program. A two-year study is being funded by the Authority and the Water Management District to define seasonal and spatial patterns of fish nursery use within the Lower Peace River/Upper Charlotte Harbor Estuary to determine the influences/relationships freshwater inflows have on such patterns. Stratified estimates of the relative distribution and abundance of fishes and selected invertebrate taxa will be made from two randomly selected, five minute, three-step (bottom-midwater-surface) oblique tows collected during night, flood tide conditions using a weighted, flowmeter-equipped plankton net. Monthly samples have been collected at seven zones within the lower Peace River. A separate Summary Report is expected to be finished early in 2001.

## **1.4 Summary of 1999 Results**

The following text and tables compare data collected during 1999 with similar average values for key parameters previously compiled during various elements of the ongoing long-term monitoring programs. Such key elements, include:

1. Peace River freshwater inflows and facility withdrawals.
2. Physical measurements such as water temperature, color and extinction coefficients.
3. Water quality characteristics such as nitrate/nitrite, ortho-phosphorus, nitrogen to phosphorus ratios, and silicon.

4. Biological measurements of phytoplankton production and biomass - carbon uptake, and chlorophyll *a*.

In making comparisons of the 1999 data with averages of similar data collected over the preceding 16 year period (1983-1998), it should be noted that the relatively dry 1999 La Niña directly followed the very wet winter/spring El Niño of 1997/1998 (see [Figure 2.6](#)).

- **Flow** - Peace River average daily flow at the Arcadia gauge during 1999 was approximately 65% of the average daily flow for the long-term preceding period 1976-1998 ([Table 1.3](#)). The sum of average daily flows from the gauges at Peace River at Arcadia, Horse Creek, Joshua Creek, and Shell Creek indicate that flows for 1998 were approximately 76% of the sum of average daily flows for the interval 1976-1998. The total withdrawals during 1999 were approximately 1.15% of the combined daily flows of the Peace River, Horse Creek, Joshua Creek, and Shell Creek. In comparison, withdrawals during the period 1980-1998 averaged approximately 0.58% of these same combined daily flows.
- **Temperature** - Average water temperatures in 1999 were just slightly higher than the long-term averages. The slightly higher average water temperatures during 1998 probably resulted from mild winters during 1998 and 1999 (see [Table 1.4](#) for comparisons between 1999 and long-term averages of this and the following parameters).
- **Water Color** – Average water color at each of the four salinities monitored as part of the moving isohaline study declined in 1999 from very high levels observed during the 1997/1998 El Niño event. However, median water color during 1999 was still greater than the preceding long-term averages.
- **Extinction Coefficient** – The rates of measured light attenuation at each of the four isohaline salinities showed relative patterns very similar to those for color.
- **Nitrite/Nitrate Nitrogen**- During 1999, the average concentrations of this major inorganic form of nitrogen were very similar to the long-term averages at each of the four measured salinities. A comparison among the isohalines indicates that a strong inorganic nitrogen gradient exists in the upper estuary. Concentrations typically decrease rapidly with increasing salinity. Seasonally, ambient inorganic nitrogen concentrations decline to their lowest levels during the late spring dry season, as phytoplankton populations respond to increasing water temperatures and light.
- **Ortho-Phosphorus** - Average inorganic phosphorus concentrations during 1999 were slightly lower than the long-term averages at each of the four isohalines for the preceding period 1983-1998. These observations probably reflect the marked decline in phosphorus concentrations that began in the Peace River in the early 1980's.

- **Nitrogen to Phosphorus Atomic ratios** – Calculated atomic inorganic nitrogen to phosphorus ratios for ambient measured concentrations in 1999, as indicated by the long-term averages, show that nitrogen is always the limiting macronutrient at each of the four isohalines.
- **Silica** - Mean concentrations during 1999 at each of the four salinities were very similar to the ranges and seasonal pattern previously observed.
- **Carbon Uptake** – The relative differences during 1999 among measured rates at each of the four isohalines was similar to the historic pattern, with measured rates being generally much higher at the two intermediate salinities. However, overall measured uptake rates were only a small fraction of the historic norm and failed to show the characteristic seasonal patterns that have always been observed during the preceding period (1983-1998). Based on a complete and thorough review of all results and procedures (software and hardware), the probable answer seems to have resulted from either: 1) contamination and loss of radioactivity in the standard C14 stock solution added during the *in situ* incubations; or 2) damage and loss of calibration of the liquid scintillation counter. Based on this finding, all 1999 carbon uptake measurements should be eliminated from the HBMP data base.
- **Chlorophyll *a*** – Concentrations measured at each of the four salinities were very similar to the long-term averages. The somewhat higher than normal levels at the two intermediate salinities (6 and 12 o/oo) during January and February probably reflect both the mild winter and the continued influence of the strong 1997/1998 El Niño event.

## 1.5 Conclusions

This document represents the fourth Annual Data Report submitted under the expanded Hydrobiological Monitoring Program (HBMP) initiated in January 1996 in compliance with Water Use Permit (WUP) 2010420.03. The graphical and summary analyzes presented in this document do not indicate any substantial changes, or atypical events, in either the physical or biological data collected during 1999. These “limited” analyzes also do not suggest there to have been any long-term changes resulting from either current or historic water withdrawals by the Peace River Regional Water Supply Facility.

## 1.6 Permanent Data

All historic water quality and in situ data collected during the fixed and moving station elements of the HBMP used in the preparation of this document are provided on the Year Three Annual Data Report CD in the directory labeled 1999 Data Sets, as either ASCII files and/or SAS format. Table 1.5 provides a summary and links to descriptions of the variables within each of the SAS data sets.



| <b>Table 1.5 Description of Data Sets</b> |                    |                                                                                                                                                                                                                         |
|-------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data Set Name</b>                      | <b>Time Period</b> | <b>Brief Description</b>                                                                                                                                                                                                |
| <a href="#">flows99.sd2</a>               | 1931-1999          | Historic daily flow data for: Peace at Arcadia; Horse Creek near Arcadia; Joshua Creek near Nocatee; and Shell Creek near Punta Gorda. Historic daily Peace River Facility withdrawals. All values in cfs.              |
| <a href="#">Mov8399.sd2</a>               | 1983-1999          | Water quality, and phytoplankton biomass and uptake measurements from monthly surface samples collected at each of the four moving isohalines. Relative locations reflect distances from the river mouth in kilometers. |
| <a href="#">Eqlhy99.sd2</a>               | 1983-1999          | Monthly hydrolab <i>in situ</i> water quality measurements taken at 0.5 meter intervals at each of the four moving isohalines. Relative locations reflect distances from the river mouth in kilometers.                 |
| <a href="#">Field99.sd2</a>               | 1996-1999          | Monthly <i>in situ</i> hydrolab water column profile data taken at 0.5 meter intervals from fixed sample locations from near the river's mouth to just upstream of the Treatment Facility.                              |
| <a href="#">Chem99.sd2</a>                | 1996-1999          | Monthly surface and bottom chemical water quality samples taken at five intervals from fixed sample locations from near the river's mouth to just upstream of the Treatment Facility.                                   |
| <a href="#">Boca99.sd2</a>                | 1996-1999          | Water level at 15-minute intervals from the continuous recording gage near Boca Grande.                                                                                                                                 |
| <a href="#">Phh9699.sd2</a>               | 1996-1999          | Water Level, and surface and bottom conductivity and temperature at 15-minute intervals from the continuous recording gage on the Peace River near Harbor Heights (River Kilometer 15.5).                               |
| <a href="#">pr9799.sd2</a>                | 1997-1999          | Water Level, and surface and bottom conductivity and temperature at 15-minute intervals from the continuous recording gage on the Peace River near Peace River Heights (River Kilometer 26.7).                          |

**\*\* Note:** Click on the data set name to review a comprehensive listing of the data set contents.



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## Chapter II

### Peace River Gaged Flows and Regional Water Supply Facility Withdrawals

Daily discharges (in cubic feet per second) at the USGS gauging station at Arcadia, Florida, for January through December 1999, are depicted in Figure 2.1. Daily Peace River flows between 1976, the beginning of the HBMP, and 1999 are shown in Figure 2.2. This long-term period of river flow is further presented as mean monthly values (Figure 2.3) and as the 3-month moving averages (Figure 2.4). Plots similar to those above for total gauged flow entering Charlotte Harbor from the Peace River (Peace River at Arcadia + Horse Creek + Joshua Creek + Shell Creek) are shown in Figures 2.5 through 2.8.

**Table 2.1 Comparisons of Freshwater Inflows during 1999 and the Period 1976-1999.**

| Figure                     | Description                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------|
| <a href="#">Figure 2.1</a> | Daily Peace River Flow at Arcadia (1999)                                                         |
| <a href="#">Figure 2.2</a> | Daily Peace River Flow at Arcadia (1976-1999)                                                    |
| <a href="#">Figure 2.3</a> | Monthly Mean Peace River Flow at Arcadia (1976-1999)                                             |
| <a href="#">Figure 2.4</a> | 3-Month Moving Average Peace River Flow at Arcadia (1976-1999).                                  |
| <a href="#">Figure 2.5</a> | Daily Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1999)                       |
| <a href="#">Figure 2.6</a> | Daily Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-1999)                  |
| <a href="#">Figure 2.7</a> | Monthly Mean Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-1999)           |
| <a href="#">Figure 2.8</a> | 3-Month Moving Average Peace River Flow at Arcadia + (Horse + Joshua + Shell) Creeks (1976-1999) |

Daily withdrawals from the Peace River (in cubic feet per second) during 1999 by the Treatment Facility are presented in Figure 2.9. Daily withdrawals since plant startup are shown from 1980-1999 in Figure 2.10. Plots of the monthly means and 3-month moving averages of withdrawals over this period are depicted in Figures 2.11 and 2.12. Various relationships between Peace River flows as measured at Arcadia and Water Supply Facility withdrawals are depicted in Figures 2.13 through 2.16.

**Table 2.2 Comparisons of Facility Withdrawals and Freshwater Inflows during 1999 and the Period 1976-1999.**

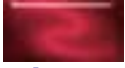
| <b>Figure</b>      | <b>Description</b>                                                                              |
|--------------------|-------------------------------------------------------------------------------------------------|
| <b>Figure 2.9</b>  | Daily Water Treatment Facility Withdrawals (1999)                                               |
| <b>Figure 2.10</b> | Daily Water Treatment Facility Withdrawals (1980-1999)                                          |
| <b>Figure 2.11</b> | Monthly Mean Water Treatment Facility Withdrawals (1980-1999)                                   |
| <b>Figure 2.12</b> | 3-Month Moving Average Water Treatment Facility Withdrawals (1980-1999)                         |
| <b>Figure 2.13</b> | Peace River Flows at Arcadia and Water Treatment Facility Withdrawals (1999)                    |
| <b>Figure 2.14</b> | Peace at Arcadia + Horse + Joshua + Shell Flows and Water Treatment Facility Withdrawals (1999) |
| <b>Figure 2.15</b> | Peace River Flows at Arcadia vs. Water Treatment Facility Withdrawals (1999)                    |
| <b>Figure 2.16</b> | Peace River Flows at Arcadia vs. % Water Treatment Facility Withdrawals (1999)                  |

Comparison of the data displayed in Figures 2.1 and 2.2 shows that Peace River average daily flow at Arcadia for 1999 was approximately 65% of the average daily flow from 1976-1998. The data displayed in Figures 2.5 and 2.6 for the sum of average daily flows from the Peace River at Arcadia, Horse Creek, Joshua Creek, and Shell Creek indicate that flows for 1999 were roughly 76% of the average daily flows for the long-term preceding time period 1976-1998.

Withdrawals from the river by the Treatment Facility during 1999 reached the maximum allowable levels during 13% of the days of the year. As indicated in Figure 2.16, withdrawals exceeded the permitted maximum of 10% of the preceding daily flow at the Arcadia gage a number of times during 1999. Such instances resulted from two causes:

1. The Authority receives and calculates preceding day flows from the water level recorder at the USGS gaging station on the Peace River at Arcadia. However, after the fact, the USGS checks and evaluates the data from the stage recorder and river cross section a number of times each year. Thus the daily values used by the Authority are only “provisional” and are often changed by the USGS weeks or even months after-the-fact. Thus, it is not uncommon for subsequent determinations of percent withdrawals, based on revised USGS calculations of daily flows, to sometimes indicated that daily withdrawals, based on provisional flow information, to exceed 10%.
2. A second problem was discovered during 1999. The Authority was using rating curve information provided by USGS to directly convert average daily stage levels into estimated flows. However, at some point, USGS changed rating curves without informing the Authority. As a result, there was a period when there were substantial differences between the flows being used by USGS and the Authority. This problem has been corrected and should never occur again, since the Authority now obtains provisional information directly from the USGS Tampa Office’s Web Site.

Average daily withdrawal for 1999 was approximately 1.15% of the combined average daily flows of the Peace River, Horse Creek, Joshua Creek, and Shell Creek. During the preceding period 1980-1998, average daily withdrawals were approximately 0.58% of the combined average daily flows of the Peace River, Horse Creek, Joshua Creek, and Shell Creek.



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## Chapter III

# Primary Productivity and Water Chemistry

### 3.1 Introduction

The development of a comprehensive understanding of primary production and the related structure of the phytoplankton communities within the Charlotte Harbor system is fundamental to the development of knowledge about other interrelated systems and processes within the estuary, such as secondary production and nutrient cycling. A thorough understanding of those processes controlling phytoplankton primary production within Charlotte Harbor is necessary to quantify the estuary's immediate and long-term responses to various external inputs. A thorough long-term investigation of that portion of the upper Harbor's production attributable to phytoplankton assemblages meets the previous cited criteria by providing both: 1) measurement of populations which act as sensitive barometers of external change at a short (daily to weekly) temporal scale; and 2) insight into basic processes not only affecting water quality but having secondary widespread interrelations and effects upon other estuarine system components. Phytoplankton production generally represents an immediately available food resource, unlike other estuarine production such as that associated with seagrass, mangrove and saltmarsh habitats, where much of the resource becomes available through secondary processes. Of the various inputs into the Charlotte Harbor estuarine system, phytoplankton production represents both the largest single component of primary production and a food source directly accessible to many filter and detrital feeding organisms. Phytoplankton production and composition, due to the short generation times involved, have also been shown to be effective in demonstrating ephemeral, seasonal and long-term changes in water quality. Phytoplankton production represents a highly integrated estuarine component and can be used to provide information on both direct and predictive secondary impacts of external influences.

#### 3.1.1 Current Long-Term Studies of Primary Production

The current studies of primary production in Upper Charlotte Harbor, conducted as part of the Peace River Regional Water Supply facility's ongoing SWFWMD HBMP, are designed to develop the needed long-term base of data necessary to evaluate both short and long-term cycles in phytoplankton production in the upper estuarine system. Statistically comparable levels of phytoplankton  $^{14}\text{C}$  fixation rates have been determined monthly at four salinity-based stations since June 1983. These investigations have included determinations of phytoplankton population structure, related physical parameters, water column light profiles and analysis of the major chemical constituents

associated with phytoplankton growth. The four sampling locations in this study represent non-fixed surface salinity zones, such that the monthly location of each station is dependent upon the preceding amount of freshwater inflow from the Peace River. The four salinity sampling zones are:

- Station 101 = 0 o/oo
- Station 102 = 5\_7 o/oo
- Station 103 = 11\_13 o/oo
- Station 104 = 20\_22 o/oo

**Table 3.1 Summary Statistics of the Four Isohaline Locations (Kilometers) from the Peace River's Mouth for the Period 1983-1999.**

| <b>Isohaline</b> | <b>Minimum</b> | <b>Maximum</b> | <b>Mean</b> | <b>Median</b> |
|------------------|----------------|----------------|-------------|---------------|
| <b>0 o/oo</b>    | 3.4            | 33.8           | 20.5        | 19.8          |
| <b>6 o/oo</b>    | -16.3          | 26.4           | 11.9        | 11.8          |
| <b>12 o/oo</b>   | -30.3          | 21.7           | 6.6         | 8.0           |
| <b>20 o/oo</b>   | -36.3          | 14.2           | -1.2        | 2.0           |

To date, the most upstream occurrence of Station 101 (salinity = 0 o/oo) has been approximately one-half mile below Horse Creek (June 1989), and the most downstream occurrence of Station 104 (salinity = 20\_22 o/oo) station has been in the Gulf of Mexico just off Boca Grande (September 1988) (see Figure 3.1a).

The relative location of each of these four isohalines during 1999 is shown in Figure 3.1b, while long-term patterns for the period 1983-1999 are presented in Figures 3.1c and 3.1d.

**Table 3.2 Comparisons of Isohaline Locations during 1999 and the Period 1983-1999.**

| <b>Figure</b>      | <b>Description</b>                                                                                 |
|--------------------|----------------------------------------------------------------------------------------------------|
| <b>Figure 3.1a</b> | Study area with most upstream and downstream locations of salinity sampling zones                  |
| <b>Figure 3.1b</b> | Relative distance (km) from the Mouth of the River – 1999                                          |
| <b>Figure 3.1c</b> | Relative distance from the Mouth of the River of 0 and 6 ppt salinity sampling zones (1983-1999)   |
| <b>Figure 3.1d</b> | Relative distance from the Mouth of the River of 12 and 20 ppt salinity sampling zones (1983-1999) |
| <b>Figure 3.1e</b> | Box & Whiskers of relative distance (km) from the Mouth of the River- 1999 & 1983-1999             |

This report presents data collected during the seventeenth year (1999) of this unique long-term study of the relationships between phytoplankton productivity and Peace River flow into Upper Charlotte Harbor. Under the newest SWFWMD Water Use Permit, phytoplankton studies is intended to continue, in order to continue development of a data



base sufficiently large that current statistical evaluation of trends and developed predictive models can be enhanced. In addition, the permit continues the collection and thorough taxonomic evaluation of the seasonal abundance and dominance of observed phytoplankton species. This portion of the study seeks to quantify the specific responses of major phytoplankton taxonomic groups to variations in the periodicity of freshwater inflow, and assess potential influences of Peace River Water Facility diversions.

## 3.2 Primary Productivity Methods

The methodologies used to measure and evaluate the physical, chemical, and biological parameters encompassed within this investigation are outlined and described within the following sections.

### 3.2.1 *In Situ* Measurements of Physical Parameters

Depth, temperature, dissolved oxygen, conductivity, and pH were measured *in situ* with a Hydrolab Surveyor Model II or YSI Model system. Profiles were made from the surface to the bottom in 0.5m increments at each sampling station location. Depth measurements were determined both on the basis of pre-measured marks on the unit's cable and the units depth sensor.

Pre-sampling instrument calibrations were conducted within 6 hours prior of use. Temperature was measured with a linear resistance thermistor, factory calibrated and accurate to within  $\pm 0.2$  °C. Dissolved oxygen (DO) was measured with a temperature-compensated, passive, polarographic cell, which measures the partial pressure of oxygen as parts per million (ppm or mg/l) of oxygen,  $\pm 0.2$  ppm. The probe is calibrated using the oxygen tension of water-saturated air (temperature corrected) as a standard.

The conductivity probes are six electrode cells and were calibrated against a KCl solution of known conductivity. Probe response was then tested with a solution of known, low conductivity to ensure that the reading is within  $\pm 1.0\%$  of the range selected. The probes are automatically temperature compensated to provide conductivity at 25 °C.

The Hydrolab pH probes are glass, KCl filled with silver/silver chloride reference electrodes and refillable junctions. They are automatically temperature compensated. Two buffer solutions of 7.0 and 10.0 pH ( $\pm 0.1$  units) were used to calibrate the accuracy of the probe.

Oxidation-reduction potential (ORP) was measured using a platinum-tipped glass ORP probe and standard pH/ORP silver/silver chloride reference probe. Conversion of these ORP values to those of a standard hydrogen electrode can be approximated by adding 300 mV to the results from the silver/silver chloride electrode.

### 3.2.2 Light Profile

Light intensity profiles utilized both to determine the 50% light depth and calculate the water column extinction coefficient were conducted at each station. A LI-COR (model LI-185B) quantum/radiometer/photometer equipped with an underwater LI-1925B quantum sensor was used to measure photosynthetically active radiation (400-700 nanometers). Light intensities (microeinsteins/m<sup>2</sup>/sec) were measured in the air just above the water surface, again just below the surface, and at six selected depths (20, 40, 60, 80, and 100 cm).

### 3.2.3 Primary Productivity Measurements

Five subsurface water samples were collected at each of the salinity-based station locations. These were randomly collected to account for phytoplankton patchiness. The subsurface samples were placed in five replicate "light" and two (black plastic dipped) "dark" acid-rinsed, 450ml glass incubation bottles. Each bottle was then inoculated with 10 microcuries of trace metal-free <sup>14</sup>C (to obtain counts of approximately ten thousand counts per minute or CPM, depending on phytoplankton levels). The bottles were quickly placed on an adjustable rack (**Figure 3.2**) and incubated *in situ* at the depth where, during the light profile determination, 50% of incident surface radiation was found to remain.

All incubations were conducted within two hours of apparent noon to standardize for known patterns of diurnal periodicity in phytoplankton production. Cumulative light levels during the incubation periods were recorded using a LI-COR integrating quantum photometer. After incubation all samples were placed in the dark, in cool ice chests and quickly returned to the laboratory and prepared for scintillation counting.

### 3.2.4 Determinations of Rates of Radioactive Carbon Uptake

The following procedures were undertaken to determine both the overall rates of <sup>14</sup>C fixation, as well as those proportions attributable to the net- (> 20 microns), nano- (5 - 20 microns), and pico- (< 5 microns) size fractions. Three separate subsamples were taken from each of the "light" sample bottles and processed as follows:

1. 50 ml was filtered through a 2.4 cm Whatman GF/C glass fiber filter using low vacuum (less than 2 PSI). The wet fiber filter was then placed in a scintillation vial and frozen until ready for analysis.
2. A second subsample was prepared in the same manner as the first, except prior to filtering, the 50 ml subsample was passed through 20 micron Nitex screening.
3. The third subsample was prepared in a likewise manner, but passed through 5 micron Nitex screening prior to filtering.

4. 50 ml sub-samples from each of the two dark bottles incubated at each station were filtered as in (1) above. Three corresponding filter blanks for each station were prepared by adding ten microcuries  $^{14}\text{C}$  to a 450 ml ice stored water sample taken at the same station, and then immediately taking three 50 ml subsamples. These were also filtered as in (1) above.
5. To begin analysis 0.5 ml of 0.1 NHC1 was added to each vial and the vials were then allowed to stand for 3 hours before the addition of 10.0 ml of scintillation fluor. The vials were then placed in the liquid scintillation counter and allowed to dark adapt for at least 24 hours before being counted.
6. Background and known  $^{14}\text{C}$  standards were run to check and validate the performance of the laboratory's Packard liquid scintillation system. Verification of the activity of the  $^{14}\text{C}$  inoculation solution was also conducted monthly.
7. Each sample vial was counted for 30 minutes, or until the CPM in spectral region A had a standard deviation of less than 0.2%. Counts per minute were then converted to disintegrations per minute using the filter standardization channels ratio method.

### 3.2.5 Chlorophyll *a*

Ambient chlorophyll *a* levels are widely used to estimate phytoplankton biomass. For these investigations, chlorophyll *a* concentrations were determined both fluorometrically and spectrometrically for the: 1) greater than 20 microns; 2) 5 to 20 microns; and 3) less than 5 microns size fractions, from samples collected simultaneously with those for primary productivity estimates. Chlorophyll *a* levels were determined for each of the three size fractions, both uncorrected and corrected for pheophytin, using the same filtering procedures as described above for the determination of  $^{14}\text{C}$  incorporation. Comparable estimates were thus made for comparison of both phytoplankton biomass and productivity rates for each of three measured phytoplankton size fractions.

### 3.2.6 Water Chemistry

Surface water samples were collected for analysis at each salinity-based station in pre-labeled, one-liter polyethylene containers. The containers were rinsed with sample water, filled and immediately placed in the dark on ice until returned to the laboratory following standard chain of custody and quality assurance procedures. Specific methods of analyses are listed in Table 3.3.

| <b>Table 3.3 Water Chemistry Methods</b>  |  |                               |                        |
|-------------------------------------------|--|-------------------------------|------------------------|
| <i>Parameter</i>                          |  | <i>Method</i>                 | <i>Detection Limit</i> |
| Color                                     |  | EPA 110.2                     | 1.0 Co_Pt Units        |
| Chloride                                  |  | EPA 325.2                     | 0.4 mg/l               |
| Turbidity                                 |  | EPA 180.1                     | 0.1mg/l                |
| Alkalinity                                |  | EPA 310.1                     | 0.1 mg/l               |
| NO <sub>2</sub> +NO <sub>3</sub> Nitrogen |  | EPA 353.2                     | 0.002 mg/l             |
| NH <sub>3</sub> +NH <sub>4</sub> Nitrogen |  | EPA 350.1                     | 0.002 mg/l             |
| Total Kjeldahl                            |  | EPA 351.2                     | 0.1 mg/l               |
| Ortho-Phosphorus                          |  | EPA 365.2                     | 0.002 mg/l             |
| Total Phosphorus                          |  | EPA 365.4                     | 0.002 mg/l             |
| Silica                                    |  | EPA 370.1                     | 0.05 mg/l              |
| Inorganic Carbon                          |  | SM 5310 B                     | 1.0 mg/l               |
| Total Organic Carbon                      |  | EPA 415.1                     | 1.0 mg/l               |
| Dissolved Organic Carbon                  |  | SM 5310 B                     | 1.0 mg/l               |
| Iron                                      |  | EPA 236.1                     | 0.04 mg/l              |
| Chlorophyll <i>a</i>                      |  | Fluorometric SM 10200H.3      | 0.25 mg/l              |
|                                           |  | Spectrophotometric Sm10200.H2 | 2.0 mg/l               |

### 3.2.7 Population Structure

Surface water samples were collected for taxonomic analysis at each salinity-based station in conjunction with primary productivity measurements. Samples for microscopic investigation were placed in one-liter polyethylene containers and immediately fixed with 4 ml of Lugol's solution, which is the preferred preservative for samples that may include significant numbers of flagellates. The samples were placed on ice in the dark for transportation back to the lab, where they were held in a refrigerator at 4 °C until prepared for counting. Extensive work has been completed in preparing a thorough photographic taxonomic inventory of the phytoplankton taxa seasonally present at the four salinity zones. To date over 500 taxa have been identified from samples collected. Samples were prepared for observation using a Zeiss inverted microscope utilizing the following settling procedures:

1. Samples were removed from the refrigerator and gently shaken to assure resuspension of all material.

2. Randomly selected subsamples totaling 5-200 ml (depending on the concentration of the material in the samples) were withdrawn and placed in 50 ml conical glass centrifuge tubes.
3. The tubes were then spun at approximately 50 x gravity for 45 minutes. Three to four drops of iodine solution were then added at the top of the tubes, which were then allowed to stand for at least 24 hrs.
4. At the end of the first settling period, the settled material in the bottom 2.5 ml and any cells adhering to the surface tension of each centrifuge tube was drawn off and placed in a 10 ml Zeiss inverted microscope settling chamber.
5. Two drops of iodine solution were again added to promote settling, and the composite samples were again allowed to stand undisturbed for 24 hrs.

Once the samples were prepared, the counting chambers were placed on a Zeiss inverted microscope for phytoplankton identification. Taxonomic determinations to the lowest practical taxonomy level were conducted from random fields using a modified strip method. To determine community structure, a standardized number of cells are identified (500). The majority of the taxonomic work was conducted using a 100X objective and 16X wide field oculars. As each observation was made, assigned genus and species codes are recorded. After having recorded the taxonomic determinations of 500 cells, additional notes on each sample were compiled using a combination of low and high power objectives. Determinations of the number of cells per unit volume were conducted on the same samples using a 10X ocular grid and 100X objective. The total number of cells in randomly selected fields, taken in a modified strip method, were recorded on a data sheet and appropriate dilution calculations made.

### **3.2.8 Taxonomic Determinations of Phytoplankton Community Structure**

In 1989 the collection of monthly samples for the analysis of phytoplankton community structure was begun in conjunction with the long-term study of physical/chemical water quality and primary production at the four monitored salinity zones. Phytoplankton community structure has long been used in other studies as a tool in assessing both temporal and long-term changes in water quality in estuarine systems. A complete presentation of all the phytoplankton taxonomic data collected during 1999, listing: 1) the taxonomic structure; 2) percent composition of the major taxonomic groups; and 3) species diversity and evenness indices, are presented by salinity zone, month and year in Appendix C.

Microscopic survey of phytoplankton samples collected concurrently with carbon uptake productivity and chlorophyll a biomass estimates generally indicate the relative dominance of the following groups. At the stations characterized by intermediate and higher salinities, the smallest phytoplankton size fraction (<5 microns) was often dominated by Cryptophyceae species (*Chroomonas* spp. and *Cryptomonas* spp.). Small Bacillariophyceae (*Thalassiosira* spp., *Nitzschia* spp., *Navicula* spp.) were also significant portions of the nano-plankton components at these salinities. At the higher salinity stations, which are under greater influences from Gulf waters, chain-forming and larger diatoms frequently dominated the net-plankton size fraction. Seasonally important

diatoms at these locations were *Skeletonema costatum*, *Asterionella glacialis*, *Odentella sinensis*, *Corethron criophilum*, *Coscinodiscus centralis*, and *Coscinodiscus eccentricus*, as well as species of *Chaetoceros* and *Rizosolenia*. Dinophyceae (*Ceratium* spp. and *Peridinium* spp.) were often seasonally common in the largest size fraction during the summer months at some of the higher salinity stations. At intermediate salinities, blooms of *Skeletonema costatum* were commonly associated with relative increases in carbon uptake and chlorophyll *a* within the largest size fraction. In certain instances, however, dinoflagellates (*Prorocentrum micans*, *P. minimum*, *Gymnodinium* spp. and *Gyrodinium* spp.) were also major components of the largest size fraction. Specifically, at 6 and 12 o/oo salinity at the mouth of the Peace River, the larger size fractions were seasonally dominated by blooms of *Gyrodinium splendens*.

The picoplankton size fraction ( < 5 microns), at the lower salinity stations, often contained significant numbers of non-flagellated, smooth, circular to ovoid, green cells. Taxonomically, such cells probably include both Cyanophyceae (*Synechococcus* spp., *Chroococcus* spp., *Anacystis* spp.) as well as Chlorophyceae (*Nannochloris* spp., *Chlorella* spp.). Small phytoflagellates (*Chlamydomonas* spp., *Carteria* spp., *Chroomonas* spp., *Cryptomonas* spp.) were also common components of the picoplankton at the lowest salinities. The larger size fractions in the riverine portions of the estuary are generally characterized by mixtures of both Chlorophyceae (*Ankistrodesmus* spp., *Coelastrum* spp., *Crucigenia* spp., *Pediastrum* spp., *Scenedesmus* spp., *Tetraedron* spp.), Bacillariophyceae (*Cyclotella* spp., *Nitzschia* spp., *Navicula* spp., *Fragillaria* spp.) and Cyanophyceae (*Anabaena* spp., *Anacystis* spp.).

### **3.3 Water Chemistry Data Collected in Conjunction With Primary Production Data**

Data collected during the primary productivity studies in 1999 are presented and summarized in the following tables and figures. Tables 3.4 through 3.8 summarize the determinations of a number of the key physical, chemical and biological measurements. Seasonal representations of selected parameters are further graphically presented in Figures 3.3 through 3.16. Complete *in situ* physical water column profiles at each of the four salinity zones by month are present in Table 3.4. Surface water chemistry results at each salinity zone during each month are presented in Appendix D.

**Table 3.9 Summary Tables and Graphics of Key Physical and Chemical Measurements for Data Collected in 1999 at the Four Isohaline Locations.**

| <b>Table/Figure</b> | <b>Description</b>                                                               |
|---------------------|----------------------------------------------------------------------------------|
| <b>Table 3.4</b>    | Physical and Chemical Parameters (January – December 1999)                       |
| <b>Table 3.5</b>    | Ambient Solar Radiation and Water Column Extinction (January - December 1999)    |
| <b>Table 3.6</b>    | Measured Rates of Primary Production (January - December 1999)                   |
| <b>Table 3.7</b>    | Determination of Carbon Uptake by Size Fraction (January - December 1999)        |
| <b>Table 3.8</b>    | Determination of Chlorophyll <i>a</i> by Size Fraction (January - December 1999) |
|                     |                                                                                  |
| <b>Figure 3.3</b>   | 1999 Temperature at salinity sampling zones                                      |
| <b>Figure 3.4</b>   | 1999 Color at salinity sampling zones                                            |
| <b>Figure 3.5</b>   | 1999 Extinction Coefficient at salinity sampling zones                           |
| <b>Figure 3.6</b>   | 1999 Nitrite/Nitrate at salinity sampling zones                                  |
| <b>Figure 3.7</b>   | 1999 Ortho-Phosphorus at salinity sampling zones                                 |
| <b>Figure 3.8</b>   | 1999 Atomic N/P Ratio at salinity sampling zones                                 |
| <b>Figure 3.9</b>   | 1999 Silica at salinity sampling zones                                           |
| <b>Figure 3.10</b>  | 1999 Carbon Uptake (mgC/m <sup>3</sup> /hr) at salinity sampling zones           |
| <b>Figure 3.11</b>  | 1999 Carbon Uptake (mgC/m <sup>3</sup> /Einstein) at salinity sampling zones     |
| <b>Figure 3.12</b>  | 1999 Chlorophyll <i>a</i> (mg/m <sup>3</sup> ) at salinity sampling zones        |
| <b>Figure 3.13</b>  | 1999 Percent Carbon Uptake Among Size Fractions                                  |
| <b>Figure 3.14</b>  | 1999 Carbon Uptake (mgC/m <sup>3</sup> /Einstein) Among Size Fractions           |
| <b>Figure 3.15</b>  | 1999 Chlorophyll <i>a</i> (mg/m <sup>3</sup> ) Among Size Fractions              |
| <b>Figure 3.16</b>  | 1999 Percent Chlorophyll <i>a</i> Among Size Fractions                           |

Relationships of the 1999 data to those data collected during previous years are shown for selected physical, chemical and biological measurements in Figures 3.17 through 3.26. Further comparisons of these parameters are presented as box and whisker plots by salinity for both 1999 and long-term data collected between 1983-1999 in Figures 3.27 through 3.36. The box and whisker plots display a detailed distribution of the data, showing the median (50th percentile) at the center of the box and the 25th and 75th percentiles at the bottom and top of the box, respectively. The whiskers are lines that extend from the 25th percentile to the 10th percentile and 75th percentile to the 90th percentile. Extreme values (outside the 10th-90th percentiles) are represented by dots at the ends of the whiskers.



**Table 3.10 Summary Graphics of Key Physical and Chemical Measurements for Data Collected during the Period 1983-1999 at the Four Isohaline Locations.**

| <b>Figure</b>      | <b>Description</b>                                                                                                     |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Figure 3.17</b> | 1983-1999 Temperature at salinity sampling zones                                                                       |
| <b>Figure 3.18</b> | 1983-1999 Color at salinity sampling zones                                                                             |
| <b>Figure 3.19</b> | 1983-1999 Extinction Coefficient at salinity sampling zones                                                            |
| <b>Figure 3.20</b> | 1983-1999 Nitrite/Nitrate at salinity sampling zones                                                                   |
| <b>Figure 3.21</b> | 1983-1999 Ortho-Phosphorus at salinity sampling zones                                                                  |
| <b>Figure 3.22</b> | 1983-1999 Atomic Nitrogen/Phosphorus Ratio at salinity sampling zones                                                  |
| <b>Figure 3.23</b> | 1983-1999 Silica at salinity sampling zones                                                                            |
| <b>Figure 3.24</b> | 1983-1999 Carbon Uptake (mgC/m <sup>3</sup> /hr) at salinity sampling zones                                            |
| <b>Figure 3.25</b> | 1983-1999 Carbon Uptake (mgC/m <sup>3</sup> /Einstein) at salinity sampling zones                                      |
| <b>Figure 3.26</b> | 1983-1999 Chlorophyll <i>a</i> (mg/m <sup>3</sup> ) at salinity sampling zones                                         |
| <b>Figure 3.27</b> | Box and Whisker Plots of Temperature at salinity sampling zones (1999) & (1983-1999)                                   |
| <b>Figure 3.28</b> | Box and Whisker Plots of Color at salinity sampling zones(1999) & (1983-1999)                                          |
| <b>Figure 3.29</b> | Box and Whisker Plots of Extinction Coefficient at salinity sampling zones (1999) & (1983-1999)                        |
| <b>Figure 3.30</b> | Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones 1999) & (1983-1999)                                |
| <b>Figure 3.31</b> | Box and Whisker Plots of Ortho-Phosphorus at salinity sampling zones (1999) & (1983-1999)                              |
| <b>Figure 3.32</b> | Box and Whisker Plots of Atomic N/P Ratio at salinity sampling zones (1999) & (1983-1999)                              |
| <b>Figure 3.33</b> | Box and Whisker Plots of Silica at salinity sampling zones (1999) & (1983-1999)                                        |
| <b>Figure 3.34</b> | Box and Whisker Plots of Carbon Uptake (mgC/m <sup>3</sup> /hr) at salinity sampling zones (1999) & (1983-1999).       |
| <b>Figure 3.35</b> | Box and Whisker Plots of Carbon Uptake (mgC/m <sup>3</sup> /Einstein) at salinity sampling zones ((1999) & (1983-1999) |
| <b>Figure 3.36</b> | Box and Whisker Plots of Chlorophyll <i>a</i> (mg/m <sup>3</sup> ) at salinity sampling Zones (1999) & (1983-1999)     |

### 3.4 Summary

In summary, the data collected during 1999 indicate:

- **Temperature** - Average water temperatures in 1999 were just slightly higher than the long-term averages. The slightly higher average water temperatures during 1999 probably resulted from mild winters during 1998 and 1999 (see [Table 1.4](#) for comparisons between 1999 and long-term averages of this and the following parameters).
- **Water Color** – Average water color at each of the four salinities monitored as part of the moving isohaline study declined in 1999 from very high levels observed during

the 1997/1998 El Niño event. However, median water color during 1999 was still greater than the preceding long-term averages.

- **Extinction Coefficient** – The rates of measured light attenuation at each of the four isohaline salinities showed relative patterns very similar to those for color.
- **Nitrite/Nitrate Nitrogen**- During 1999, the average concentrations of this major inorganic form of nitrogen were very similar to the long-term averages at each of the four measured salinities. A comparison among the isohalines indicates that a strong gradient exists in inorganic nitrogen in the upper estuary. Concentrations typically decrease rapidly with increasing salinity. Seasonally, ambient inorganic nitrogen concentrations decline to their lowest levels during the late spring dry season, as phytoplankton populations respond to increasing water temperatures and light.
- **Ortho-Phosphorus** - Average inorganic phosphorus concentrations during 1999 were slightly lower than the long-term averages at each of the four isohalines for the preceding period 1983-1998. These observations probably reflect the marked decline in phosphorus concentrations that began in the Peace River in the early 1980's.
- **Nitrogen to Phosphorus Atomic ratios** – Calculated atomic inorganic nitrogen to phosphorus ratios for ambient measured concentrations in 1999, as indicated by the long-term averages, show that nitrogen to always be the limiting macronutrient at each of the four isohalines.
- **Silica** - Mean concentrations during 1999 at each of the four salinities were very similar to the ranges and seasonal pattern previously observed.
- **Carbon Uptake** – The relative differences during 1999 among measured rates at each of the four isohalines was similar to the historic pattern, with measured rates being generally much higher at the two intermediate salinities. However, overall measured uptake rates were only a small fraction of the historic norm and failed to show the characteristic seasonal patterns that have always been observed during the preceding period (1983-1998). Based on a complete and thorough review of all results and procedures (software and hardware), the probable answer seems to have resulted from either: 1) contamination and loss of radioactivity in the standard C14 stock solution added during the *in situ* incubations; or 2) damage and loss of calibration of the liquid scintillation counter. Based on this finding, all 1999 carbon uptake measurements should be extremely suspect, and should not be used in any long-term analyses or comparisons. It is suggested that to prevent future potential confusion they should be eliminated from the HBMP data base.
- **Chlorophyll *a*** – Concentrations measured at each of the four salinities were very similar to the long-term averages. The somewhat higher than normal levels at the two intermediate salinities (6 and 12 o/oo) during January and February probably reflect the mild winter.

Complete analysis of water column profile light levels is contained within Appendix A, while thorough analysis of carbon uptake and chlorophyll *a* determinations are presented in Appendix B. Complete water chemistry and *in situ* Hydrolab data are presented in Appendices D and E, respectively.



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## Chapter IV

### Water Chemistry Data Collected at Fixed Station Locations

#### 4.1 Introduction

A number of the HBMP elements prior to 1996 had included collections of water quality data. However, the majority of these data were *in situ* physical measurements of water column characteristics. Such *in situ* water column profile data were collected during:

1. The monthly HBMP night trawl fish study conducted between 1976-1986.
2. The sea star and benthic invertebrate studies carried out between 1976 and 1984.
3. The long-term monthly fixed station study of water column characteristics undertaken between 1976 and 1986 at numerous fixed sites in the Lower Peace River and Upper Charlotte Harbor.

In addition both water column profiles as well as surface water chemistry samples have been collected monthly since 1983 at four moving isohaline locations in conjunction with the ongoing HBMP study of phytoplankton primary production.

Under the 1996 expansion of the monitoring program, water chemistry data collections began at five fixed sampling locations from near the mouth of the river to upstream of the Treatment Facility. In addition, *in situ* physical water column profile sampling was instigated at 10 additional fixed sampling locations, as well as the five water chemistry stations. This water sampling and *in situ* water column investigation was initiated using sampling sites formerly (1975-1990) utilized by EQL for similar long-term background monitoring. Beginning in 1998, an additional fixed monthly sampling site was added to corresponding to the location of the third tide gage that was installed in 1997 at river kilometer 26.7. The relative locations of these fixed sampling locations are shown in [Figure 4.1](#), while Table 1.1 provides currently used river kilometers as well as previously used EQL station numbers and USGS river mile designations. During 1999, the U.S. Geological Survey (USGS) collected all fixed station water quality data under contract with the Authority.

#### 4.2 Fixed Station Data Collection

The U.S. Geological Survey (USGS) began a cooperative water quality data collection program with the Peace/Manasota Regional Water Supply Authority (PMRWSA) in

August 1996. As part of this program, the USGS initiated continuous (15 minute intervals) monitoring of:

1. Water level, as well as surface and bottom specific conductance and temperature at Harbour Heights on the Peace River. The USGS designates this site as 2297460, and it is located at river kilometer 15.5.
2. Water level near Boca Grande at the USGS designated site 2643120821530000.
3. Monthly physical and chemical water quality sampling at selected sites in the Peace River and Upper Charlotte Harbor ([Figure 4.1](#)).

In November 1997 the USGS added a third gauging station designated by USGS as site 2297350 (Peace River Heights) located at river kilometer 26.7. Measurements taken at this upstream location include both water level, and surface and bottom specific conductance and temperature.

### 4.3 Description

The following description provides an overview and summary of the procedures and methods used by USGS during the fixed station elements of the HBMP.

The fixed station water quality monitoring projects consists of three categories of data collection:

1. Continuous monitoring of selected parameters at three locations.
2. Monthly physical water column *in situ* water quality measurements at 16 fixed sampling sites.
3. Monthly surface and bottom chemical water quality samples collected at five locations, spaced along a transect between near the river's mouth and just upstream of the Treatment Facility.

Water levels are recorded at all three continuous recording sites. In addition, temperature and specific conductance (surface and bottom) are recorded at the two Peace River sites. Monthly water quality measurements are generally scheduled as a two-day sampling event during the last two weeks of the calendar month. The first day generally consists of the collection of water quality samples and field measurements at six sites. The second day consists of *in situ* water column profile measurements at 16 sites, including those sampled the previous day. All sampling and field measurement sites are reached by boat. Each site is located in the main channel of the river.

Near surface and near bottom samples collected at the six monthly water quality sites are analyzed for color, turbidity, alkalinity, total nutrients (ammonia nitrogen, ammonia plus organic nitrogen, nitrate plus nitrite nitrogen, nitrite nitrogen, orthophosphorus, phosphorus), total organic carbon, total inorganic carbon, dissolved organic carbon, dissolved silica, dissolved chloride, total suspended solids, volatile suspended solids, salinity (estimated from specific conductance), and chlorophyll *a*.

Field measurements made in conjunction with sampling at the six water quality sites include depth, pH, temperature, dissolved oxygen, specific conductance, and light characteristics. Field measurements are made at 0.5 meter (m) intervals, beginning at the surface and ending near the river bottom. Light characteristics are measured in the air and at 5 depths: just below the water surface; at the depth where 1 percent (%) of the surface light is remaining; and at 3 evenly spaced points between the surface and 1% depth readings.

Field measurements made on the second day at the 16 field measurement sites include depth, pH, temperature, dissolved oxygen, and specific conductance. Field measurements are made at 0.5 m intervals, beginning at the surface and ending near the bottom.

#### **4.3.1 Responsibility**

The water quality monitoring program described above is the responsibility of the USGS Environmental Studies Section (ESS) located in Tampa, Florida. Maintenance of gages, collection and processing of water quality samples, processing and review of the data, and implementation of the quality assurance plan for this project are the responsibility of the ESS.

The USGS Quality of Water Service Unit (QWSU) in Ocala, Florida performs all water quality analyses for the project except chlorophyll a analyses. Established quality assurance practices for the laboratory are described in a Comprehensive Quality Assurance Plan (#910161G), approved by the Florida Department of Environmental Protection. This plan is updated annually.

### **4.4 Data Collection and Analyses**

Data collection protocols are derived from standard USGS techniques described in Ward and Harr (1990), Britton and Greeson (1989), Horowitz and others (1994), and numerous USGS Office of Water Quality Technical Memoranda. The specific procedures used for data collection and analyses are described below.

#### **4.4.1 Field Activities Continuous Record Sites**

Three recording gages have been established as part of this project. Water level is measured at each site (stations 264312082153000, 02297460 and 02297350) using a float sensor in a PVC stilling well (Rantz and others, 1982) and is recorded at 15-minute intervals using a Campbell Scientific CR-10 electronic data logger. Near surface and near bottom specific conductance and temperature are measured in the Peace River at stations 02297460 and 02297350 using USGS combination temperature and specific conductance probes. Readings are averaged over a two-minute interval and are recorded at 15-minute intervals.

Near surface sensors are suspended 1 ft below the surface using a float in a stilling well. The near bottom sensors are suspended about 1 ft from the bottom in the same stilling well as the near surface sensor.

Data are retrieved at approximately monthly intervals or more often as needed. Once data are retrieved, the calibration stability of the specific conductance and temperature sensors is checked using a field thermometer and specific conductance standards with values that bracket the range of expected values in the Peace River. The sensors are cleaned, inspected, and rechecked with the thermometer and specific conductance standards. If needed, the sensor readings are adjusted to the standard values. The sensors are considered calibrated if the temperature is within 0.5 C and the specific conductance is within 5% of the standard values. Calibrations are recorded on calibration forms and these records are maintained by the USGS in Tampa, FL.

#### **4.4.2 Monthly Water Quality Sampling**

Specific field sampling protocols utilized are:

1. Check the calibration of the multiparameter meter the day of sampling, prior to the collection of field data. Adjust the meter if needed and record calibration notes.
2. Measure the temperature, specific conductance, dissolved oxygen, and pH just below the water surface and at 0.5 m intervals from the surface to the bottom of the water column. Record the data on the field measurement form. Temperature is recorded in degrees Celsius, specific conductance in microsiemens per centimeter at 25 degrees Celsius; dissolved oxygen in milligrams per liter, corrected for salinity effects; and pH in pH units. Depth is recorded in meters from the surface.
3. Measure the incident light in air and record on the field measurement form. Light is recorded in microeinsteins per meter squared per second. Measure light in the water just below the water surface and record. Determine the depth where 1% of the surface light remains and record. Once this depth is determined, measure light at 3 additional depths, evenly spaced between the surface and the 1% depth. Record depths in meters.
4. While wearing a clean pair of non-powdered, disposable vinyl gloves, collect water near the surface using the Kemmerer point water sampler. Discharge some of the sample water through the Kemmerer spigot to rinse and place the remaining water in the churn splitter marked "TOP". Do not remove the inner bag around the churn. Tear a small hole in the bag for the churn spigot. Rinse the churn splitter with sample water and discharge about 50-100ml through the churn spigot. Discard the rinse water and repeat. When the churn splitter is not being held, wrap churn splitter in the outer plastic bag.
5. Collect 6 liters of water near the surface using the Kemmerer point sampler and place in the churn splitter. The plastic bags covering the churn splitter should be opened only long enough to transfer water to the churn to avoid contamination of the sample.
6. Place pre-cleaned silicon tubing in the peristaltic pump. Place a 0.45  $\mu$ m silver filter in the stainless steel filtration unit. Fill the Kemmerer sampler near the surface. Fill the bottles for total inorganic carbon and total organic carbon directly from the Kemmerer spigot. Cap the bottles and place on ice. Fill the stainless steel filtration



- unit with water from the Kemmerer sampler. Attach the tubing from the peristaltic pump and apply air pressure to the filtration unit. Collect the dissolved organic carbon sample from the filtrate. Cap the bottle and place on ice.
7. All whole water samples are collected from the churn before filtered samples are collected. Mix the sample water in the churn using a churning rate of 9 inches per second, taking care not to break the water surface with the churn paddle. Rinse the bottles and caps used for samples of total nutrients, alkalinity, color, turbidity, specific conductance, and suspended solids twice using sample water and discard water. Maintain the churning rate during withdrawal of any sample water. Fill each bottle and seal. Place the bottles for total nutrients, suspended solids, and color on ice.
  8. Attach one end of clean silicon tubing to a disposable 0.45  $\mu\text{m}$  capsule filter and pump 1 liter of deionized (DI) water through the tubing and filter to rinse. Pump out all the DI water from the tubing and capsule filter. Place the intake end of the tubing in the sample water in the churn splitter and pump sample water through the tubing and filter. Rinse the sample bottle and caps used for dissolved silica and chloride twice with filtrate. Fill each bottle with filtered water and seal. Preserve the dissolved silica sample with 1mL of concentrated nitric acid.
  9. Repeat steps 4-8 for the near bottom sample. Use the churn splitter marked "BOTTOM" for this sample.
  10. Chlorophyll sample protocols: Chlorophyll samples were processed and analyzed by the USGS for samples collected August through December 1996. Starting in 1997, chlorophyll samples have been collected by USGS and analyzed by EQL. For the near surface chlorophyll samples, collect one gallon of water at a depth of about 1 foot (ft) from the surface and store in a dark cooler. For the near bottom chlorophyll sample, remove one liter of bottom sample water from the churn splitter while the water is being mixed and store the sample in the dark cooler.
  11. Clean the outside and inside of the Kemmerer sampler, "TOP" and "BOTTOM" churn splitters, and stainless steel filtration unit using two rinses with DI water. Discharge a portion of the rinse water through the sampler and churn spigots. Rinse the stainless steel filtration unit with carbon-free water after the DI rinses. Place a new 0.45  $\mu\text{m}$  silver filter in the stainless steel filtration unit and wrap the unit in aluminum foil. Place the churn splitters in clean plastic bags and close bags. Place each churn and bag in another plastic bag and enclose. Wrap the Kemmerer sampler in a clean plastic bag.

#### **4.4.3 Analytical Procedures**

The laboratory method, concentration range, precision, accuracy, and method reporting limit of the analytes measured for this project are listed in [Tables 4.1](#) and [4.2](#).

#### **4.4.4 Water Quality Instruments**

A LiCor model 1000 photometer and LiCor spherical quantum light sensors are used to measure ambient light in air and at selected depths at the water quality sampling sites.

The light sensors are calibrated by LiCor according to manufacturing specifications (every 2 years) or more often if needed.

A Hydrolab H20 multiparameter probe combined with a Hydrolab Surveyor 3 or a Hydrolab MiniSonde combined with a Surveyor 4 data logger is used to measure temperature, pH, dissolved oxygen, specific conductance, and depth. Field instruments are calibrated in the office prior to each field trip. Instrument calibration is rechecked in the field prior to the first measurement of the day and after the last measurement of the day to document calibration stability. Calibrations may be necessary during the day if the range in values measured exceeds the calibration range, if instrument maintenance is required, or other conditions warrant a recalibration. Calibrations are recorded and stored in the instrument calibration book. Calibration procedures for specific measurements are described below.

- **Dissolved oxygen:** A water-saturated air calibration is done in accordance with manufacturer's instructions. A 100% water saturated air environment is created by placing tap water in the calibration chamber to a depth just below the dissolved oxygen membrane. The membrane is blotted dry with a soft paper towel and a loose fitting cap is placed over the calibration chamber. The probe and water-saturated air are allowed to equilibrate before any adjustment is made. After equilibration has occurred, the meter is set to the appropriate value, based on the chamber temperature and the current atmospheric temperature. Once calibrated, the minimum dissolved oxygen that can be read by the meter is checked in an oxygen-free solution of sodium sulfite. A reading of 0.5 mg/L or less is acceptable.
- **Temperature:** A two-point calibration check of the temperature thermistor is made at least once annually. A thermometer traceable to NIST is used to check the meter. One calibration point is in an ice-water bath and the other calibration point is in a hot water bath. The certified thermometer and the meter thermistor are compared after equilibration (about 20 minutes). The meter is considered calibrated if the temperature reads within 0.5 C.

## 4.5 Results and Conclusions

The results for the period January through December 1999 of the *in situ* hydrolab water column profiles at the seventeen fixed stations are presented in Appendix F. These data are presented graphically in Figure 4.2 through Figure 4.6 (see Table 4.3).

The water chemistry data for the fixed water quality stations are presented in Appendix G. The water chemistry data are presented in Figure 4.7 through Figure 4.17 (see Table 4.4).

**Table 4.3 Summary Graphics of Physical *In Situ* Water Quality Measurements for Data Collected during 1999 at the Fixed Sampling Locations.**

| <b>Figure</b>      | <b>Description</b>                                           |
|--------------------|--------------------------------------------------------------|
| <b>Figure 4.2a</b> | 1999 Temperature at 4 of 17 fixed sampling stations          |
| <b>Figure 4.2b</b> | 1999 Temperature at 4 of 17 fixed sampling stations          |
| <b>Figure 4.2c</b> | 1999 Temperature at 4 of 17 fixed sampling stations          |
| <b>Figure 4.2d</b> | 1999 Temperature at 5 of 17 fixed sampling stations          |
| <b>Figure 4.3a</b> | 1999 Dissolved Oxygen at 4 of 17 at fixed sampling stations  |
| <b>Figure 4.3b</b> | 1999 Dissolved Oxygen at 4 of 17 at fixed sampling stations  |
| <b>Figure 4.3c</b> | 1999 Dissolved Oxygen at 4 of 17 at fixed sampling stations  |
| <b>Figure 4.3d</b> | 1999 Dissolved Oxygen at 5 of 17 at fixed sampling stations  |
| <b>Figure 4.4a</b> | 1999 pH at 4 of 17 fixed sampling stations                   |
| <b>Figure 4.4b</b> | 1999 pH at 4 of 17 fixed sampling stations                   |
| <b>Figure 4.4c</b> | 1999 pH at 4 of 17 fixed sampling stations                   |
| <b>Figure 4.4d</b> | 1999 pH at 5 of 17 fixed sampling stations                   |
| <b>Figure 4.5a</b> | 1999 Light Depth at 4 of 17 fixed sampling stations          |
| <b>Figure 4.5b</b> | 1999 Light Depth at 4 of 17 fixed sampling stations          |
| <b>Figure 4.5c</b> | 1999 Light Depth at 4 of 17 fixed sampling stations          |
| <b>Figure 4.5d</b> | 1999 Light Depth at 5 of 17 fixed sampling stations          |
| <b>Figure 4.6a</b> | 1999 Specific Conductance at 4 of 17 fixed sampling stations |
| <b>Figure 4.6b</b> | 1999 Specific Conductance at 4 of 17 fixed sampling stations |
| <b>Figure 4.6c</b> | 1999 Specific Conductance at 4 of 17 fixed sampling stations |
| <b>Figure 4.6d</b> | 1999 Specific Conductance at 5 of 17 fixed sampling stations |

**Table 4.4 Summary Graphics of Chemical Water Quality Measurements for Data Collected during 1999 at the Fixed Sampling Locations.**

| <b>Figure</b>      | <b>Description</b>                                           |
|--------------------|--------------------------------------------------------------|
| <b>Figure 4.7</b>  | 1999 Turbidity at fixed sampling stations                    |
| <b>Figure 4.8</b>  | 1999 Color at fixed sampling stations                        |
| <b>Figure 4.9</b>  | 1999 Total Suspended Solids at fixed sampling stations       |
| <b>Figure 4.10</b> | 1999 Nitrite/Nitrate at fixed sampling stations              |
| <b>Figure 4.11</b> | 1999 Dissolved Chloride at fixed sampling stations           |
| <b>Figure 4.12</b> | 1999 Silica at fixed sampling stations                       |
| <b>Figure 4.13</b> | 1999 Ortho-Phosphorus at fixed sampling stations             |
| <b>Figure 4.14</b> | 1999 Specific Conductance at fixed sampling stations         |
| <b>Figure 4.15</b> | 1999 Alkalinity at fixed sampling stations                   |
| <b>Figure 4.16</b> | 1999 Surface chlorophyll <i>a</i> at fixed sampling stations |
| <b>Figure 4.17</b> | 1999 Bottom chlorophyll <i>a</i> at fixed sampling stations  |

Gage height, as well as surface and bottom, conductivity and temperature collected at 15-minute intervals at Harbour Height on Peace River (USGS Station 02297460, river kilometer 15.5) are presented in Figures 4.18 through 4.22. Similar plots are shown in Figures 4.23 through 4.27 for the continuous gage at Peace River Heights on the Peace River (USGS Station 02297350, river kilometer 26.7). Gage height data are depicted in Figure 4.28 for the 15-minute interval data collected during 1999 by the USGS at the Boca Grande Station (264312082153000). These graphics are summarized in Table 4.5.

| <b>Table 4.5 Summary Graphics of Data from USGS Continuous Recorders.</b> |                                                                                                          |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Figure</b>                                                             | <b>Description</b>                                                                                       |
| <b>Figure 4.18</b>                                                        | Gage Height (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)          |
| <b>Figure 4.19</b>                                                        | Surface conductivity (15-minute intervals) for Peace River fixed Station 02297460 (River kilometer)      |
| <b>Figure 4.20</b>                                                        | Bottom conductivity (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)  |
| <b>Figure 4.21</b>                                                        | Surface temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer 15.5)  |
| <b>Figure 4.22</b>                                                        | Bottom temperature (15-minute intervals) for Peace River fixed station 02297460 (River Kilometer)        |
| <b>Figure 4.23</b>                                                        | Gage Height (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)          |
| <b>Figure 4.24</b>                                                        | Surface conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7) |
| <b>Figure 4.25</b>                                                        | Bottom conductivity (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)  |
| <b>Figure 4.26</b>                                                        | Surface temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)  |
| <b>Figure 4.27</b>                                                        | Bottom temperature (15-minute intervals) for Peace River fixed station 02297350 (River Kilometer 26.7)   |
| <b>Figure 4.28a</b>                                                       | Gage Height (15-minute intervals) for Boca Grande                                                        |
| <b>Figure 4.28b</b>                                                       | Gage Height (15-minute intervals) for Boca Grande                                                        |

Comparisons of gage heights and both surface and bottom conductivity measurements at the two Peace River gage locations, Harbour Heights (river kilometer 15.5) and Peace River Heights (river kilometer 26.7), are presented in Figures 4.29 through 4.40 for the last two weeks in May 1999 (dry-season) and the last two weeks in August 1999 (wet-season). An overview of these graphics is presented in Table 4.6.

**Table 4.5 Summary Graphics of Comparisons of Stage Height and Surface and Bottom Conductivity at the Continuous Recorders.**

| <b>Figure</b>      | <b>Description</b>                                                                        |
|--------------------|-------------------------------------------------------------------------------------------|
| <b>Figure 4.29</b> | Surface Conductivity and Stage Height in May - Station 02297460 (River Kilometer 15.5)    |
| <b>Figure 4.30</b> | Bottom Conductivity and Stage Height in May – Station 02297460 (River Kilometer 15.5)     |
| <b>Figure 4.31</b> | Surface & Bottom Conductivity in May - Station 02297460 (River Kilometer 15.5)            |
| <b>Figure 4.32</b> | Surface Conductivity and Stage Height in August -Station 02297460 River Kilometer 15.5)   |
| <b>Figure 4.33</b> | Bottom Conductivity and Stage Height in August – Station 02297460 (River Kilometer 15.5)  |
| <b>Figure 4.34</b> | Surface & Bottom Conductivity in August – Station 02297460(River Kilometer 15.5)          |
| <b>Figure 4.35</b> | Surface Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)    |
| <b>Figure 4.36</b> | Bottom Conductivity and Stage Height in May - Station 02297350 (River Kilometer 26.7)     |
| <b>Figure 4.37</b> | Surface & Bottom Conductivity in May – Station 02297350 (River Kilometer 26.7).           |
| <b>Figure 4.38</b> | Surface Conductivity and Stage Height in August - Station 02297350 (River Kilometer 26.7) |
| <b>Figure 4.39</b> | Bottom Conductivity and Stage Height in August - Station 02297350 (River Kilometer 26.7)  |
| <b>Figure 4.40</b> | Surface & Bottom Conductivity in August - Station 02297350 (River Kilometer 26.7)         |

As indicated in comparing the series of figures, both surface and bottom conductivities at the downstream Harbour Heights site (river kilometer 15.5) are strongly influenced by tide. During May, in the dry-season, it was not uncommon for surface conductivities to vary 5000 to 10000 uS/cm (roughly 3 to 6 ppt salinity) over a tidal cycle. The amount of tidal variability in conductivity near the bottom was even greater. During August, in the wet-season, this area of the Peace River was characteristically far fresher and daily tidal influences were greatly reduced.

Upstream, the conductivity data collected during May 1999 at the continuous gage at Peace River Heights (river kilometer 26.7) showed tidal variations in conductivity (5000 to 10000 uS/cm) similar in magnitude to those downstream. However, conductivity rapidly declined in this region of the river in response to a relatively small increase in flow. During the wet-season (August), conductivities were extremely low and observed variations showed little tidal influence.



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# **This File Contains Additional Tables Not Included in the Text of the 1999 HBMP Data Report**

**Table 1.3 Long-Term Yearly Mean Measurements of Peace River Flows and Facility Withdrawals**

| Year | Means (in cubic ft/sec)        |                                                          |                           | Withdrawal as Percent of Gaged Flow at: |              |
|------|--------------------------------|----------------------------------------------------------|---------------------------|-----------------------------------------|--------------|
|      | Flow at Peace Facility Arcadia | Peace Arcadia + Horse Creek + Joshua Creek + Shell Creek | Withdrawal                | Arcadia                                 | US 41 Bridge |
| 1976 | 703.3                          | 959.6                                                    | No Withdrawals Until 1980 |                                         |              |
| 1977 | 478.7                          | 731.9                                                    |                           |                                         |              |
| 1978 | 997.2                          | 1525.8                                                   |                           |                                         |              |
| 1979 | 1171.4                         | 2080.5                                                   |                           |                                         |              |
| 1980 | 495.2                          | 726.3                                                    | 3.93                      | 0.66                                    | 0.45         |
| 1981 | 288.4                          | 629.6                                                    | 5.10                      | 1.77                                    | 0.81         |
| 1982 | 1610.5                         | 2746.9                                                   | 5.91                      | 0.37                                    | 0.21         |
| 1983 | 1371.3                         | 2319.9                                                   | 5.11                      | 0.37                                    | 0.22         |
| 1984 | 567.0                          | 1102.7                                                   | 4.07                      | 0.72                                    | 0.37         |
| 1985 | 368.9                          | 680.7                                                    | 7.24                      | 1.96                                    | 1.06         |
| 1986 | 548.9                          | 1013.6                                                   | 7.50                      | 1.37                                    | 0.74         |
| 1987 | 802.7                          | 1357.8                                                   | 7.59                      | 0.95                                    | 0.56         |
| 1988 | 1054.0                         | 1738.4                                                   | 9.48                      | 0.90                                    | 0.55         |
| 1989 | 373.6                          | 699.0                                                    | 9.60                      | 2.57                                    | 1.37         |
| 1990 | 402.4                          | 741.4                                                    | 8.72                      | 2.17                                    | 1.18         |
| 1991 | 771.1                          | 1567.6                                                   | 10.38                     | 1.35                                    | 0.66         |
| 1992 | 784.6                          | 1543.6                                                   | 9.41                      | 1.20                                    | 0.61         |
| 1993 | 698.5                          | 1249.3                                                   | 12.02                     | 1.72                                    | 0.96         |
| 1994 | 1365.9                         | 2359.0                                                   | 11.65                     | 0.85                                    | 0.52         |
| 1995 | 1708.1                         | 3071.6                                                   | 12.23                     | 0.72                                    | 0.40         |
| 1996 | 598.2                          | 928.8                                                    | 12.46                     | 2.08                                    | 1.34         |
| 1997 | 1059.9                         | 1777.6                                                   | 12.12                     | 1.14                                    | 0.68         |
| 1998 | 1915.9                         | 2921.3                                                   | 15.43                     | 0.81                                    | 0.53         |
| 1999 | 565.2                          | 1142.5                                                   | 12.8                      | 2.26                                    | 1.15         |



| <b>Table 1.4 Mean Values for Key Physical, Chemical and Biological Measurements by Isohaline</b> |             |              |            |           |           |           |            |             |           |
|--------------------------------------------------------------------------------------------------|-------------|--------------|------------|-----------|-----------|-----------|------------|-------------|-----------|
| <b>Isohaline</b>                                                                                 | <b>TEMP</b> | <b>COLOR</b> | <b>N23</b> | <b>OP</b> | <b>NP</b> | <b>SI</b> | <b>EXC</b> | <b>CHLA</b> | <b>P3</b> |
| <b>Summary of data from current year – 1999</b>                                                  |             |              |            |           |           |           |            |             |           |
| <b>0 o/oo Salinity</b>                                                                           | 25.0        | 173          | 0.499      | 0.637     | 0.9       | 2.85      | 3.33       | 11.0        | 0.32      |
| <b>6 o/oo Salinity</b>                                                                           | 25.5        | 131          | 0.213      | 0.444     | 0.7       | 2.31      | 2.95       | 25.5        | 3.56      |
| <b>12 o/oo Salinity</b>                                                                          | 25.5        | 91           | 0.080      | 0.306     | 0.5       | 1.57      | 2.47       | 24.6        | 3.89      |
| <b>20 o/oo Salinity</b>                                                                          | 25.1        | 49           | 0.032      | 0.160     | 0.6       | 1.02      | 1.67       | 13.4        | 1.26      |
| <b>Summary of data from preceding period 1983-1998</b>                                           |             |              |            |           |           |           |            |             |           |
| <b>0 o/oo Salinity</b>                                                                           | 24.7        | 140          | 0.493      | 0.743     | 0.8       | 2.60      | 3.18       | 9.8         | 8.85      |
| <b>6 o/oo Salinity</b>                                                                           | 25.0        | 111          | 0.216      | 0.534     | 0.5       | 2.16      | 2.81       | 23.2        | 20.52     |
| <b>12 o/oo Salinity</b>                                                                          | 25.0        | 81           | 0.098      | 0.372     | 0.4       | 1.67      | 2.27       | 23.0        | 21.87     |
| <b>20 o/oo Salinity</b>                                                                          | 24.6        | 45           | 0.036      | 0.215     | 0.4       | 0.97      | 1.59       | 12.3        | 17.24     |

Temp = Temperature

Color = Color

N23 = Nitrate/Nitrite Nitrogen

OP = Ortho-phosphorus

NP = Atomic Inorganic Nitrogen to Phosphorus Ratio

SI = Reactive Silica

EXC = Extinction Coefficient

CHLA = Chlorophyll *a*

P3 = Rate of Carbon Uptake

**Table 3.4 Physical and Chemical Parameters (January - December 1999)**

| Atomic<br>Year | Month | Sample<br>Location | Temperature<br>(C) | Color<br>(CPU) | Ammonia/<br>Ammonium<br>(mg/l) | Nitrite/<br>Nitrate<br>(mg/l) | Orthophosphorus<br>(mg/l) | Available<br>Silica<br>(mg/l) | N/P<br>Ratio |
|----------------|-------|--------------------|--------------------|----------------|--------------------------------|-------------------------------|---------------------------|-------------------------------|--------------|
| 1999           | JAN   | 0 o/oo             | 17.0               | 80             | 0.031                          | 0.759                         | 0.584                     | 2.53                          | 3.1          |
| 1999           | JAN   | 6 o/oo             | 17.7               | 65             | 0.010                          | 0.365                         | 0.468                     | 2.40                          | 1.8          |
| 1999           | JAN   | 12 o/oo            | 17.3               | 55             | 0.010                          | 0.053                         | 0.289                     | 2.00                          | 0.5          |
| 1999           | JAN   | 20 o/oo            | 17.0               | 45             | 0.010                          | 0.002                         | 0.153                     | 1.21                          | 0.2          |
| 1999           | FEB   | 0 o/oo             | 23.1               | 120            | 0.020                          | 0.505                         | 0.697                     | 2.97                          | 1.7          |
| 1999           | FEB   | 6 o/oo             | 23.4               | 100            | 0.010                          | 0.129                         | 0.450                     | 1.71                          | 0.7          |
| 1999           | FEB   | 12 o/oo            | 24.3               | 60             | 0.010                          | 0.015                         | 0.272                     | 0.51                          | 0.2          |
| 1999           | FEB   | 20 o/oo            | 23.5               | 38             | 0.010                          | 0.002                         | 0.123                     | 0.27                          | 0.2          |
| 1999           | MAR   | 0 o/oo             | 20.6               | 70             | 0.051                          | 0.433                         | 0.660                     | 1.31                          | 1.7          |
| 1999           | MAR   | 6 o/oo             | 20.6               | 70             | 0.017                          | 0.090                         | 0.413                     | 1.04                          | 0.6          |
| 1999           | MAR   | 12 o/oo            | 20.2               | 48             | 0.014                          | 0.002                         | 0.266                     | 0.17                          | 0.1          |
| 1999           | MAR   | 20 o/oo            | 20.1               | 28             | 0.018                          | 0.002                         | 0.132                     | 0.11                          | 0.3          |
| 1999           | APR   | 0 o/oo             | 27.5               | 45             | 0.018                          | 0.056                         | 0.797                     | 0.97                          | 0.2          |
| 1999           | APR   | 6 o/oo             | 26.7               | 55             | 0.046                          | 0.004                         | 0.562                     | 1.15                          | 0.2          |
| 1999           | APR   | 12 o/oo            | 26.6               | 60             | 0.018                          | 0.004                         | 0.380                     | 1.16                          | 0.1          |
| 1999           | APR   | 20 o/oo            | 25.8               | 60             | 0.019                          | 0.002                         | 0.200                     | 0.70                          | 0.2          |
| 1999           | MAY   | 0 o/oo             | 27.0               | 55             | 0.060                          | 0.521                         | 0.598                     | 1.69                          | 2.2          |
| 1999           | MAY   | 6 o/oo             | 27.4               | 65             | 0.028                          | 0.130                         | 0.601                     | 1.67                          | 0.6          |
| 1999           | MAY   | 12 o/oo            | 28.0               | 55             | 0.013                          | 0.002                         | 0.484                     | 1.18                          | 0.1          |
| 1999           | MAY   | 20 o/oo            | 27.6               | 37             | 0.016                          | 0.002                         | 0.263                     | 0.40                          | 0.2          |
| 1999           | JUN   | 0 o/oo             | 27.3               | 249            | 0.086                          | 1.190                         | 0.491                     | 3.40                          | 5.9          |
| 1999           | JUN   | 6 o/oo             | 28.7               | 174            | 0.149                          | 0.565                         | 0.354                     | 2.51                          | 4.6          |
| 1999           | JUN   | 12 o/oo            | 29.5               | 137            | 0.130                          | 0.342                         | 0.269                     | 2.24                          | 4.0          |
| 1999           | JUN   | 20 o/oo            | 28.6               | 77             | 0.057                          | 0.180                         | 0.181                     | 1.41                          | 3.0          |
| 1999           | JUL   | 0 o/oo             | 29.7               | 316            | 0.073                          | 0.434                         | 0.721                     | 3.85                          | 1.6          |
| 1999           | JUL   | 6 o/oo             | 30.7               | 235            | 0.078                          | 0.152                         | 0.475                     | 3.16                          | 1.1          |
| 1999           | JUL   | 12 o/oo            | 31.1               | 131            | 0.010                          | 0.004                         | 0.265                     | 0.61                          | 0.1          |
| 1999           | JUL   | 20 o/oo            | 30.2               | 48             | 0.038                          | 0.004                         | 0.105                     | 0.65                          | 0.9          |
| 1999           | AUG   | 0 o/oo             | 31.0               | 260            | 0.010                          | 0.123                         | 0.578                     | 2.77                          | 0.5          |
| 1999           | AUG   | 6 o/oo             | 31.1               | 160            | 0.086                          | 0.095                         | 0.387                     | 2.78                          | 1.1          |
| 1999           | AUG   | 12 o/oo            | 29.6               | 110            | 0.140                          | 0.050                         | 0.281                     | 2.45                          | 1.5          |
| 1999           | AUG   | 20 o/oo            | 29.9               | 45             | 0.089                          | 0.006                         | 0.131                     | 1.71                          | 1.7          |
| 1999           | SEP   | 0 o/oo             | 29.0               | 280            | 0.035                          | 0.286                         | 0.648                     | 4.19                          | 1.1          |
| 1999           | SEP   | 6 o/oo             | 29.2               | 180            | 0.038                          | 0.192                         | 0.335                     | 3.52                          | 1.6          |
| 1999           | SEP   | 12 o/oo            | 29.8               | 140            | 0.205                          | 0.091                         | 0.290                     | 3.16                          | 2.3          |
| 1999           | SEP   | 20 o/oo            | 29.6               | 70             | 0.146                          | 0.015                         | 0.167                     | 2.36                          | 2.2          |
| 1999           | OCT   | 0 o/oo             | 26.4               | 320            | 0.032                          | 0.202                         | 0.655                     | 3.55                          | 0.8          |
| 1999           | OCT   | 6 o/oo             | 27.4               | 220            | 0.113                          | 0.166                         | 0.387                     | 2.92                          | 1.6          |
| 1999           | OCT   | 12 o/oo            | 27.3               | 150            | 0.156                          | 0.134                         | 0.313                     | 2.55                          | 2.1          |
| 1999           | OCT   | 20 o/oo            | 27.6               | 60             | 0.145                          | 0.034                         | 0.132                     | 1.87                          | 3.1          |
| 1999           | NOV   | 0 o/oo             | 21.6               | 180            | 0.050                          | 0.504                         | 0.526                     | 3.74                          | 2.4          |
| 1999           | NOV   | 6 o/oo             | 21.8               | 170            | 0.036                          | 0.194                         | 0.325                     | 2.10                          | 1.6          |
| 1999           | NOV   | 12 o/oo            | 21.6               | 95             | 0.035                          | 0.019                         | 0.225                     | 0.94                          | 0.5          |
| 1999           | NOV   | 20 o/oo            | 21.3               | 37             | 0.031                          | 0.009                         | 0.110                     | 0.44                          | 0.8          |
| 1999           | DEC   | 0 o/oo             | 19.4               | 95             | 0.033                          | 0.972                         | 0.691                     | 3.18                          | 3.3          |
| 1999           | DEC   | 6 o/oo             | 20.8               | 80             | 0.077                          | 0.476                         | 0.566                     | 2.72                          | 2.2          |
| 1999           | DEC   | 12 o/oo            | 20.3               | 55             | 0.116                          | 0.243                         | 0.336                     | 1.89                          | 2.4          |
| 1999           | DEC   | 20 o/oo            | 20.3               | 40             | 0.088                          | 0.122                         | 0.220                     | 1.05                          | 2.2          |

**Table 3.5 Ambient Solar Radiation and Water Column Extinction  
January - December 1999)**

| Year | Month | Sample Location | Light Extinction Coefficient | Depth 1% of Surface Light Remains (m) | Depth 10% of Surface Light Remains (m) | Depth 50% of Surface Light Remains (m) |
|------|-------|-----------------|------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|
| 1999 | JAN   | 0 o/oo          | 2.01                         | 2.30                                  | 1.15                                   | 0.34                                   |
| 1999 | JAN   | 6 o/oo          | 3.22                         | 1.40                                  | 0.72                                   | 0.22                                   |
| 1999 | JAN   | 12 o/oo         | 2.26                         | 2.00                                  | 1.02                                   | 0.31                                   |
| 1999 | JAN   | 20 o/oo         | 1.15                         | 4.00                                  | 1.99                                   | 0.60                                   |
| 1999 | FEB   | 0 o/oo          | 3.03                         | 1.50                                  | 0.76                                   | 0.23                                   |
| 1999 | FEB   | 6 o/oo          | 2.79                         | 1.60                                  | 0.82                                   | 0.25                                   |
| 1999 | FEB   | 12 o/oo         | 1.76                         | 2.60                                  | 1.31                                   | 0.39                                   |
| 1999 | FEB   | 20 o/oo         | 1.00                         | 4.60                                  | 2.30                                   | 0.69                                   |
| 1999 | MAR   | 0 o/oo          | 1.70                         | 2.70                                  | 1.36                                   | 0.41                                   |
| 1999 | MAR   | 6 o/oo          | 2.01                         | 2.30                                  | 1.15                                   | 0.34                                   |
| 1999 | MAR   | 12 o/oo         | 2.45                         | 1.90                                  | 0.94                                   | 0.28                                   |
| 1999 | MAR   | 20 o/oo         | 2.29                         | 2.00                                  | 1.01                                   | 0.30                                   |
| 1999 | APR   | 0 o/oo          | 1.54                         | 3.00                                  | 1.50                                   | 0.45                                   |
| 1999 | APR   | 6 o/oo          | 1.62                         | 2.80                                  | 1.42                                   | 0.43                                   |
| 1999 | APR   | 12 o/oo         | 1.54                         | 3.00                                  | 1.50                                   | 0.45                                   |
| 1999 | APR   | 20 o/oo         | 1.36                         | 3.40                                  | 1.69                                   | 0.51                                   |
| 1999 | MAY   | 0 o/oo          | 1.73                         | 2.70                                  | 1.33                                   | 0.40                                   |
| 1999 | MAY   | 6 o/oo          | 1.70                         | 2.70                                  | 1.35                                   | 0.41                                   |
| 1999 | MAY   | 12 o/oo         | 2.03                         | 2.30                                  | 1.13                                   | 0.34                                   |
| 1999 | MAY   | 20 o/oo         | 1.22                         | 3.80                                  | 1.89                                   | 0.57                                   |
| 1999 | JUN   | 0 o/oo          | 3.48                         | 1.30                                  | 0.66                                   | 0.20                                   |
| 1999 | JUN   | 6 o/oo          | 2.31                         | 2.00                                  | 1.00                                   | 0.30                                   |
| 1999 | JUN   | 12 o/oo         | 1.97                         | 2.30                                  | 1.17                                   | 0.35                                   |
| 1999 | JUN   | 20 o/oo         | 1.97                         | 2.30                                  | 1.17                                   | 0.35                                   |
| 1999 | JUL   | 0 o/oo          | 5.45                         | 0.80                                  | 0.42                                   | 0.13                                   |
| 1999 | JUL   | 6 o/oo          | 5.00                         | 0.90                                  | 0.46                                   | 0.14                                   |
| 1999 | JUL   | 12 o/oo         | 3.06                         | 1.50                                  | 0.75                                   | 0.23                                   |
| 1999 | JUL   | 20 o/oo         | 1.69                         | 2.70                                  | 1.36                                   | 0.41                                   |
| 1999 | AUG   | 0 o/oo          | 4.71                         | 1.00                                  | 0.49                                   | 0.15                                   |
| 1999 | AUG   | 6 o/oo          | 2.89                         | 1.60                                  | 0.80                                   | 0.24                                   |
| 1999 | AUG   | 12 o/oo         | 1.89                         | 2.40                                  | 1.22                                   | 0.37                                   |
| 1999 | AUG   | 20 o/oo         | 1.25                         | 3.70                                  | 1.84                                   | 0.55                                   |
| 1999 | SEP   | 0 o/oo          | 4.81                         | 1.00                                  | 0.48                                   | 0.14                                   |
| 1999 | SEP   | 6 o/oo          | 2.96                         | 1.60                                  | 0.78                                   | 0.23                                   |
| 1999 | SEP   | 12 o/oo         | 2.76                         | 1.70                                  | 0.83                                   | 0.25                                   |
| 1999 | SEP   | 20 o/oo         | 1.95                         | 2.40                                  | 1.18                                   | 0.36                                   |
| 1999 | OCT   | 0 o/oo          | 4.33                         | 1.10                                  | 0.53                                   | 0.16                                   |
| 1999 | OCT   | 6 o/oo          | 3.67                         | 1.30                                  | 0.63                                   | 0.19                                   |
| 1999 | OCT   | 12 o/oo         | 2.64                         | 1.70                                  | 0.87                                   | 0.26                                   |
| 1999 | OCT   | 20 o/oo         | 2.38                         | 1.90                                  | 0.97                                   | 0.29                                   |
| 1999 | NOV   | 0 o/oo          | 4.55                         | 1.00                                  | 0.51                                   | 0.15                                   |
| 1999 | NOV   | 6 o/oo          | 3.72                         | 1.20                                  | 0.62                                   | 0.19                                   |
| 1999 | NOV   | 12 o/oo         | 4.30                         | 1.10                                  | 0.54                                   | 0.16                                   |
| 1999 | NOV   | 20 o/oo         | 2.07                         | 2.20                                  | 1.11                                   | 0.34                                   |
| 1999 | DEC   | 0 o/oo          | 2.66                         | 1.70                                  | 0.87                                   | 0.26                                   |
| 1999 | DEC   | 6 o/oo          | 3.51                         | 1.30                                  | 0.66                                   | 0.20                                   |
| 1999 | DEC   | 12 o/oo         | 2.80                         | 1.60                                  | 0.82                                   | 0.25                                   |
| 1999 | DEC   | 20 o/oo         | 1.76                         | 2.60                                  | 1.31                                   | 0.39                                   |

**Table 3.6 Measured Rates of Primary Production (January - December 1999)**

| Year | Month | Sample Location | Carbon Uptake (mg Carbon/m3/E) | Carbon Uptake (mg Carbon/m3/E/Chla) | Carbon Uptake (mg Carbon/m3/hr) | Carbon Uptake (mg Carbon/m3/hr/Chla) |
|------|-------|-----------------|--------------------------------|-------------------------------------|---------------------------------|--------------------------------------|
| 1999 | JAN   | 0 o/oo          | 0.44                           | 0.16                                | 1.69                            | 0.60                                 |
| 1999 | JAN   | 6 o/oo          | 4.73                           | 0.04                                | 17.43                           | 0.16                                 |
| 1999 | JAN   | 12 o/oo         | 4.92                           | 0.10                                | 17.65                           | 0.37                                 |
| 1999 | JAN   | 20 o/oo         | 0.97                           | 0.19                                | 3.34                            | 0.67                                 |
| 1999 | FEB   | 0 o/oo          | 0.31                           | 0.06                                | 1.27                            | 0.23                                 |
| 1999 | FEB   | 6 o/oo          | 3.37                           | 0.07                                | 14.06                           | 0.27                                 |
| 1999 | FEB   | 12 o/oo         | 4.15                           | 0.19                                | 17.09                           | 0.77                                 |
| 1999 | FEB   | 20 o/oo         | 0.72                           | 0.10                                | 2.90                            | 0.41                                 |
| 1999 | MAR   | 0 o/oo          | 0.40                           | 0.15                                | 2.01                            | 0.74                                 |
| 1999 | MAR   | 6 o/oo          | 3.53                           | 0.16                                | 17.36                           | 0.79                                 |
| 1999 | MAR   | 12 o/oo         | 3.42                           | 0.22                                | 16.75                           | 1.05                                 |
| 1999 | MAR   | 20 o/oo         | 0.74                           | 0.06                                | 3.54                            | 0.27                                 |
| 1999 | APR   | 0 o/oo          | 0.52                           | 0.06                                | 2.60                            | 0.28                                 |
| 1999 | APR   | 6 o/oo          | 4.12                           | 0.35                                | 20.58                           | 1.77                                 |
| 1999 | APR   | 12 o/oo         | 3.74                           | 0.31                                | 20.35                           | 1.70                                 |
| 1999 | APR   | 20 o/oo         | 0.72                           | 0.06                                | 4.03                            | 0.33                                 |
| 1999 | MAY   | 0 o/oo          | 0.41                           | 0.06                                | 1.92                            | 0.27                                 |
| 1999 | MAY   | 6 o/oo          | 4.02                           | 0.28                                | 18.32                           | 1.29                                 |
| 1999 | MAY   | 12 o/oo         | 3.84                           | 0.36                                | 17.88                           | 1.69                                 |
| 1999 | MAY   | 20 o/oo         | 0.85                           | 0.08                                | 3.99                            | 0.36                                 |
| 1999 | JUN   | 0 o/oo          | 0.23                           | 0.23                                | 1.15                            | 1.15                                 |
| 1999 | JUN   | 6 o/oo          | 3.19                           | 0.66                                | 15.47                           | 3.22                                 |
| 1999 | JUN   | 12 o/oo         | 3.39                           | 0.45                                | 17.09                           | 2.28                                 |
| 1999 | JUN   | 20 o/oo         | 0.76                           | 0.09                                | 3.64                            | 0.42                                 |
| 1999 | JUL   | 0 o/oo          | 0.20                           | 0.01                                | 0.93                            | 0.03                                 |
| 1999 | JUL   | 6 o/oo          | 2.85                           | 0.57                                | 13.42                           | 2.68                                 |
| 1999 | JUL   | 12 o/oo         | 3.24                           | 0.05                                | 14.39                           | 0.21                                 |
| 1999 | JUL   | 20 o/oo         | 0.71                           | 0.04                                | 3.05                            | 0.18                                 |
| 1999 | AUG   | 0 o/oo          | 0.28                           | 0.01                                | 1.31                            | 0.03                                 |
| 1999 | AUG   | 6 o/oo          | 3.86                           | 0.51                                | 17.77                           | 2.34                                 |
| 1999 | AUG   | 12 o/oo         | 4.05                           | 0.94                                | 17.54                           | 4.08                                 |
| 1999 | AUG   | 20 o/oo         | 0.83                           | 0.09                                | 3.64                            | 0.40                                 |
| 1999 | SEP   | 0 o/oo          | 0.21                           | 0.01                                | 0.92                            | 0.06                                 |
| 1999 | SEP   | 6 o/oo          | 2.79                           | 0.31                                | 12.36                           | 1.36                                 |
| 1999 | SEP   | 12 o/oo         | 2.86                           | 0.24                                | 12.37                           | 1.02                                 |
| 1999 | SEP   | 20 o/oo         | 0.61                           | 0.02                                | 2.61                            | 0.09                                 |
| 1999 | OCT   | 0 o/oo          | 0.16                           | 0.08                                | 0.62                            | 0.31                                 |
| 1999 | OCT   | 6 o/oo          | 4.67                           | 0.90                                | 18.53                           | 3.56                                 |
| 1999 | OCT   | 12 o/oo         | 3.78                           | 0.14                                | 14.73                           | 0.56                                 |
| 1999 | OCT   | 20 o/oo         | 1.19                           | 0.08                                | 4.62                            | 0.30                                 |
| 1999 | NOV   | 0 o/oo          | 0.31                           | 0.04                                | 1.09                            | 0.13                                 |
| 1999 | NOV   | 6 o/oo          | 3.85                           | 0.08                                | 13.61                           | 0.27                                 |
| 1999 | NOV   | 12 o/oo         | 3.99                           | 0.07                                | 14.28                           | 0.25                                 |
| 1999 | NOV   | 20 o/oo         | 0.88                           | 0.06                                | 2.99                            | 0.20                                 |
| 1999 | DEC   | 0 o/oo          | 0.35                           | 0.06                                | 1.18                            | 0.19                                 |
| 1999 | DEC   | 6 o/oo          | 1.71                           | 0.13                                | 5.73                            | 0.42                                 |
| 1999 | DEC   | 12 o/oo         | 5.31                           | 0.51                                | 17.88                           | 1.70                                 |
| 1999 | DEC   | 20 o/oo         | 6.13                           | 0.36                                | 19.38                           | 1.13                                 |

**TABLE 3.7 Determination of Carbon Uptake By Size Fraction  
(January - December 1999)**

| Year | Month | Sample Location | Uptake >20<br>um Fraction<br>(mg<br>Carbon/m3/E) | Uptake 20><5<br>um Fract.<br>(mg<br>Carbon/m3/E) | Uptake 5> um<br>Fraction (mg<br>Carbon/m3/E) | % Carbon<br>Uptake >20<br>um Size<br>Fraction | % Carbon<br>Uptake 20><5<br>um Size<br>Fraction | % Carbon<br>Uptake 5><br>um Size<br>Fraction |
|------|-------|-----------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------------|----------------------------------------------|
| 1999 | JAN   | 0 o/oo          | 0.00                                             | 0.11                                             | 0.35                                         | 0.0                                           | 23.8                                            | 78.1                                         |
| 1999 | JAN   | 6 o/oo          | 0.39                                             | 0.76                                             | 3.58                                         | 8.2                                           | 16.0                                            | 75.8                                         |
| 1999 | JAN   | 12 o/oo         | 0.70                                             | 0.40                                             | 3.82                                         | 14.2                                          | 8.1                                             | 77.6                                         |
| 1999 | JAN   | 20 o/oo         | 0.11                                             | 0.08                                             | 0.78                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | FEB   | 0 o/oo          | 0.00                                             | 0.07                                             | 0.24                                         | 0.2                                           | 22.5                                            | 77.3                                         |
| 1999 | FEB   | 6 o/oo          | 0.30                                             | 0.54                                             | 2.53                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | FEB   | 12 o/oo         | 0.59                                             | 0.34                                             | 3.22                                         | 14.2                                          | 8.1                                             | 77.6                                         |
| 1999 | FEB   | 20 o/oo         | 0.11                                             | 0.09                                             | 0.52                                         | 15.2                                          | 12.6                                            | 72.3                                         |
| 1999 | MAR   | 0 o/oo          | 0.02                                             | 0.08                                             | 0.30                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | MAR   | 6 o/oo          | 0.21                                             | 0.61                                             | 2.70                                         | 6.0                                           | 17.3                                            | 76.6                                         |
| 1999 | MAR   | 12 o/oo         | 0.48                                             | 0.30                                             | 2.65                                         | 13.9                                          | 8.7                                             | 77.3                                         |
| 1999 | MAR   | 20 o/oo         | 0.08                                             | 0.06                                             | 0.59                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | APR   | 0 o/oo          | 0.02                                             | 0.11                                             | 0.40                                         | 3.7                                           | 20.4                                            | 76.0                                         |
| 1999 | APR   | 6 o/oo          | 0.36                                             | 0.66                                             | 3.09                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | APR   | 12 o/oo         | 0.52                                             | 0.33                                             | 2.90                                         | 13.9                                          | 8.7                                             | 77.3                                         |
| 1999 | APR   | 20 o/oo         | 0.08                                             | 0.06                                             | 0.58                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | MAY   | 0 o/oo          | 0.02                                             | 0.08                                             | 0.32                                         | 3.9                                           | 18.2                                            | 77.9                                         |
| 1999 | MAY   | 6 o/oo          | 0.32                                             | 0.67                                             | 3.03                                         | 7.9                                           | 16.7                                            | 75.4                                         |
| 1999 | MAY   | 12 o/oo         | 0.55                                             | 0.31                                             | 2.98                                         | 14.2                                          | 8.1                                             | 77.6                                         |
| 1999 | MAY   | 20 o/oo         | 0.10                                             | 0.07                                             | 0.68                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | JUN   | 0 o/oo          | 0.02                                             | 0.03                                             | 0.18                                         | 9.2                                           | 12.3                                            | 78.5                                         |
| 1999 | JUN   | 6 o/oo          | 0.28                                             | 0.52                                             | 2.39                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | JUN   | 12 o/oo         | 0.48                                             | 0.28                                             | 2.63                                         | 14.2                                          | 8.1                                             | 77.6                                         |
| 1999 | JUN   | 20 o/oo         | 0.08                                             | 0.06                                             | 0.61                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | JUL   | 0 o/oo          | 0.01                                             | 0.04                                             | 0.15                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | JUL   | 6 o/oo          | 0.25                                             | 0.46                                             | 2.14                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | JUL   | 12 o/oo         | 0.45                                             | 0.28                                             | 2.50                                         | 13.9                                          | 8.7                                             | 77.3                                         |
| 1999 | JUL   | 20 o/oo         | 0.08                                             | 0.06                                             | 0.57                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | AUG   | 0 o/oo          | 0.01                                             | 0.06                                             | 0.21                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | AUG   | 6 o/oo          | 0.34                                             | 0.62                                             | 2.90                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | AUG   | 12 o/oo         | 0.61                                             | 0.26                                             | 3.18                                         | 15.1                                          | 6.4                                             | 78.5                                         |
| 1999 | AUG   | 20 o/oo         | 0.09                                             | 0.07                                             | 0.66                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | SEP   | 0 o/oo          | 0.01                                             | 0.04                                             | 0.16                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | SEP   | 6 o/oo          | 0.25                                             | 0.45                                             | 2.09                                         | 8.8                                           | 16.2                                            | 75.0                                         |
| 1999 | SEP   | 12 o/oo         | 0.43                                             | 0.18                                             | 2.25                                         | 15.1                                          | 6.4                                             | 78.5                                         |
| 1999 | SEP   | 20 o/oo         | 0.07                                             | 0.05                                             | 0.49                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | OCT   | 0 o/oo          | 0.01                                             | 0.03                                             | 0.12                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | OCT   | 6 o/oo          | 0.43                                             | 0.72                                             | 3.52                                         | 9.1                                           | 15.5                                            | 75.4                                         |
| 1999 | OCT   | 12 o/oo         | 0.54                                             | 0.31                                             | 2.93                                         | 14.2                                          | 8.1                                             | 77.6                                         |
| 1999 | OCT   | 20 o/oo         | 0.15                                             | 0.09                                             | 0.95                                         | 12.5                                          | 7.7                                             | 79.8                                         |
| 1999 | NOV   | 0 o/oo          | 0.02                                             | 0.06                                             | 0.23                                         | 5.2                                           | 19.4                                            | 75.4                                         |
| 1999 | NOV   | 6 o/oo          | 0.30                                             | 0.64                                             | 2.90                                         | 7.9                                           | 16.7                                            | 75.4                                         |
| 1999 | NOV   | 12 o/oo         | 0.56                                             | 0.35                                             | 3.08                                         | 13.9                                          | 8.7                                             | 77.3                                         |
| 1999 | NOV   | 20 o/oo         | 0.10                                             | 0.08                                             | 0.70                                         | 11.2                                          | 8.6                                             | 80.2                                         |
| 1999 | DEC   | 0 o/oo          | 0.02                                             | 0.05                                             | 0.29                                         | 4.8                                           | 13.6                                            | 81.6                                         |
| 1999 | DEC   | 6 o/oo          | 0.24                                             | 0.28                                             | 1.19                                         | 14.3                                          | 16.2                                            | 69.6                                         |
| 1999 | DEC   | 12 o/oo         | 0.75                                             | 1.45                                             | 3.12                                         | 14.1                                          | 27.2                                            | 58.7                                         |
| 1999 | DEC   | 20 o/oo         | 3.29                                             | 0.77                                             | 2.08                                         | 53.6                                          | 12.5                                            | 33.9                                         |

**TABLE 3.8 Determination of Chlorophyll a by Size Class Fraction  
(January - December 1999)**

| Year | Month | Sample Location | Chlorophyll a >20 um Fraction (mg/m3) | Chlorophyll a 20><5 um Fraction (mg/m3) | Chlorophyll a 5> um Fraction (mg/m3) | % Chlorophyll a >20 um Size Fraction | % Chlorophyll a 20><5 um Size Fraction | % Chlorophyll a 5> um Size Fraction |
|------|-------|-----------------|---------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|
| 1999 | JAN   | 0 o/oo          | 0.0                                   | 0.8                                     | 2.2                                  | 0.0                                  | 21.4                                   | 78.6                                |
| 1999 | JAN   | 6 o/oo          | 25.5                                  | 35.1                                    | 51.2                                 | 22.8                                 | 31.4                                   | 45.8                                |
| 1999 | JAN   | 12 o/oo         | 15.9                                  | 13.6                                    | 18.8                                 | 32.9                                 | 28.2                                   | 38.9                                |
| 1999 | JAN   | 20 o/oo         | 1.1                                   | 0.6                                     | 3.3                                  | 22.0                                 | 12.0                                   | 66.0                                |
| 1999 | FEB   | 0 o/oo          | 0.4                                   | 0.5                                     | 4.6                                  | 7.3                                  | 9.1                                    | 83.6                                |
| 1999 | FEB   | 6 o/oo          | 2.0                                   | 10.9                                    | 38.5                                 | 3.9                                  | 21.2                                   | 74.9                                |
| 1999 | FEB   | 12 o/oo         | 16.0                                  | 0.6                                     | 5.7                                  | 71.7                                 | 2.7                                    | 25.6                                |
| 1999 | FEB   | 20 o/oo         | 4.5                                   | 0.3                                     | 2.3                                  | 63.4                                 | 4.2                                    | 32.4                                |
| 1999 | MAR   | 0 o/oo          | 0.0                                   | 0.5                                     | 2.3                                  | 0.0                                  | 18.5                                   | 85.2                                |
| 1999 | MAR   | 6 o/oo          | 2.8                                   | 4.1                                     | 15.1                                 | 12.7                                 | 18.6                                   | 68.6                                |
| 1999 | MAR   | 12 o/oo         | 6.3                                   | 1.2                                     | 8.4                                  | 39.6                                 | 7.5                                    | 52.8                                |
| 1999 | MAR   | 20 o/oo         | 5.4                                   | 0.0                                     | 8.3                                  | 37.1                                 | 0.0                                    | 62.9                                |
| 1999 | APR   | 0 o/oo          | 0.5                                   | 0.0                                     | 8.9                                  | 3.3                                  | 0.0                                    | 96.7                                |
| 1999 | APR   | 6 o/oo          | 0.2                                   | 5.0                                     | 6.4                                  | 1.7                                  | 43.1                                   | 55.2                                |
| 1999 | APR   | 12 o/oo         | 2.8                                   | 4.0                                     | 5.2                                  | 23.3                                 | 33.3                                   | 43.3                                |
| 1999 | APR   | 20 o/oo         | 0.2                                   | 2.5                                     | 9.6                                  | 1.6                                  | 20.3                                   | 78.0                                |
| 1999 | MAY   | 0 o/oo          | 1.0                                   | 0.9                                     | 5.1                                  | 14.3                                 | 12.9                                   | 72.9                                |
| 1999 | MAY   | 6 o/oo          | 2.0                                   | 2.5                                     | 9.7                                  | 14.1                                 | 17.6                                   | 68.3                                |
| 1999 | MAY   | 12 o/oo         | 0.7                                   | 1.5                                     | 8.4                                  | 6.6                                  | 14.2                                   | 79.2                                |
| 1999 | MAY   | 20 o/oo         | 4.3                                   | 0.5                                     | 6.4                                  | 38.4                                 | 4.5                                    | 57.1                                |
| 1999 | JUN   | 0 o/oo          | 0.0                                   | 0.2                                     | 0.8                                  | 0.0                                  | 20.0                                   | 80.0                                |
| 1999 | JUN   | 6 o/oo          | 0.1                                   | 0.4                                     | 4.3                                  | 2.1                                  | 8.3                                    | 89.6                                |
| 1999 | JUN   | 12 o/oo         | 0.7                                   | 0.7                                     | 6.1                                  | 9.3                                  | 9.3                                    | 81.3                                |
| 1999 | JUN   | 20 o/oo         | 2.0                                   | 1.0                                     | 5.7                                  | 23.0                                 | 11.5                                   | 65.5                                |
| 1999 | JUL   | 0 o/oo          | 9.9                                   | 3.7                                     | 15.4                                 | 34.1                                 | 12.8                                   | 53.1                                |
| 1999 | JUL   | 6 o/oo          | 0.0                                   | 0.7                                     | 4.5                                  | 0.0                                  | 10.0                                   | 90.0                                |
| 1999 | JUL   | 12 o/oo         | 40.4                                  | 6.5                                     | 22.7                                 | 58.0                                 | 9.3                                    | 32.6                                |
| 1999 | JUL   | 20 o/oo         | 6.3                                   | 3.8                                     | 7.2                                  | 36.4                                 | 22.0                                   | 41.6                                |
| 1999 | AUG   | 0 o/oo          | 3.9                                   | 28.3                                    | 10.7                                 | 9.1                                  | 66.0                                   | 24.9                                |
| 1999 | AUG   | 6 o/oo          | 0.0                                   | 3.4                                     | 6.2                                  | 0.0                                  | 18.4                                   | 81.6                                |
| 1999 | AUG   | 12 o/oo         | 0.5                                   | 0.4                                     | 3.4                                  | 11.6                                 | 9.3                                    | 79.1                                |
| 1999 | AUG   | 20 o/oo         | 4.8                                   | 0.8                                     | 3.6                                  | 52.2                                 | 8.7                                    | 39.1                                |
| 1999 | SEP   | 0 o/oo          | 0.0                                   | 9.3                                     | 7.3                                  | 0.0                                  | 59.6                                   | 46.8                                |
| 1999 | SEP   | 6 o/oo          | 0.8                                   | 0.2                                     | 8.1                                  | 8.8                                  | 2.2                                    | 89.0                                |
| 1999 | SEP   | 12 o/oo         | 4.8                                   | 0.9                                     | 6.4                                  | 39.7                                 | 7.4                                    | 52.9                                |
| 1999 | SEP   | 20 o/oo         | 12.6                                  | 0.0                                     | 20.6                                 | 42.4                                 | 0.0                                    | 69.4                                |
| 1999 | OCT   | 0 o/oo          | 0.2                                   | 0.0                                     | 1.8                                  | 10.0                                 | 0.0                                    | 90.0                                |
| 1999 | OCT   | 6 o/oo          | 0.7                                   | 0.6                                     | 3.9                                  | 13.5                                 | 11.5                                   | 75.0                                |
| 1999 | OCT   | 12 o/oo         | 14.3                                  | 5.6                                     | 6.3                                  | 54.6                                 | 21.4                                   | 24.0                                |
| 1999 | OCT   | 20 o/oo         | 4.6                                   | 2.9                                     | 7.8                                  | 30.1                                 | 19.0                                   | 51.0                                |
| 1999 | NOV   | 0 o/oo          | 2.2                                   | 2.1                                     | 4.1                                  | 26.2                                 | 25.0                                   | 48.8                                |
| 1999 | NOV   | 6 o/oo          | 11.5                                  | 24.4                                    | 14.2                                 | 23.0                                 | 48.7                                   | 28.3                                |
| 1999 | NOV   | 12 o/oo         | 16.0                                  | 28.5                                    | 11.9                                 | 28.4                                 | 50.5                                   | 21.1                                |
| 1999 | NOV   | 20 o/oo         | 1.0                                   | 2.3                                     | 11.6                                 | 6.7                                  | 15.4                                   | 77.9                                |
| 1999 | DEC   | 0 o/oo          | 1.2                                   | 0.0                                     | 7.9                                  | 13.1                                 | 0.0                                    | 96.9                                |
| 1999 | DEC   | 6 o/oo          | 1.9                                   | 3.2                                     | 8.5                                  | 14.0                                 | 23.5                                   | 62.5                                |
| 1999 | DEC   | 12 o/oo         | 2.0                                   | 2.3                                     | 6.2                                  | 19.0                                 | 21.9                                   | 59.0                                |
| 1999 | DEC   | 20 o/oo         | 10.1                                  | 2.0                                     | 5.0                                  | 59.1                                 | 11.7                                   | 29.2                                |

## Table 4.1 Water Quality Parameters

| Lab Code <sup>1</sup> | Watstore Number <sup>2</sup> | Parameter Name                                       | Method Number          |
|-----------------------|------------------------------|------------------------------------------------------|------------------------|
| 0020                  | 00080(A)                     | color                                                | I-1250-85 <sup>3</sup> |
| 0049                  | 00535(A)                     | residue, volatile non-filterable                     | I-3767-85 <sup>3</sup> |
| 0050                  | 00076(A)                     | turbidity                                            | I-3860-85 <sup>3</sup> |
| 0069                  | 90095(A)                     | specific conductance                                 | I-2781-84 <sup>3</sup> |
| 0070                  | 90410(A)                     | alkalinity, total as CaCO <sub>3</sub>               | I-2030-85 <sup>3</sup> |
| 0113                  | 00681(O)                     | carbon, organic, dissolved                           | SM5310B <sup>4</sup>   |
| 0114                  | 00680(O)                     | carbon, organic, total                               | EPA-415.1 <sup>5</sup> |
| 0019                  | 00685(A)                     | carbon, inorganic, total                             | O-0004-78 <sup>6</sup> |
| 0169                  | 00530(B)                     | residue, total non-filterable at 105°C               | I-3765-84 <sup>3</sup> |
| 0292                  | 00940(F)                     | chloride, dissolved                                  | I-2057-84 <sup>3</sup> |
| 0667                  | 00955(D)                     | silica, dissolved                                    | I-1472-87 <sup>3</sup> |
| 1984                  | 00665(D)                     | phosphorus, as P total                               | I-4600-84 <sup>3</sup> |
| 1986                  | 00625(D)                     | nitrogen, NH <sub>3</sub> +organic-N, total          | I-4552-84 <sup>3</sup> |
| 3071                  | 00610(F)                     | nitrogen, NH <sub>3</sub> -N, total                  | I-4522-85 <sup>3</sup> |
| 3072                  | 00615(B)                     | nitrogen, NO <sub>2</sub> -N, total                  | I-4540-84 <sup>3</sup> |
| 3073                  | 00630(E)                     | nitrogen, NO <sub>2</sub> +NO <sub>3</sub> -N, total | I-4545-84 <sup>3</sup> |
| 3074                  | 70507(H)                     | phosphorus, PO <sub>4</sub> -P, total                | I-4601-84 <sup>3</sup> |

<sup>1</sup> The lab code refers to a specific analysis method

<sup>2</sup> The Watstore code refers to a unique code associated with the data stored in the water quality database.

<sup>3</sup> The method is described in Fishman and Friedman, 1989.

<sup>4</sup> The method is described in American Public Health Association, 1992.

<sup>5</sup> U.S. Environmental Protection published method

<sup>6</sup> The method is described in Wershaw and others, 1987.



## Table 4.2 Methods, Precision and Accuracy Limits

Analytes, concentration ranges, precision, accuracy, and method reporting limits of the analytes measured for the Peace River water-quality monitoring project  
[% is percent; RSD is relative standard deviation; N is nitrogen; L is low; M is medium; mg/L is milligrams per liter;  $\mu\text{S}/\text{cm}$  is microsiemens per centimeter at 25 °C; NTU is nephelometric turbidity units; PCU is platinum-cobalt units]

| Analyte                                   | Range | Precision<br>(% RSD) | Accuracy<br>(% Recovery) | Method Reporting<br>Limit |
|-------------------------------------------|-------|----------------------|--------------------------|---------------------------|
| Ammonia nitrogen as N,<br>total           | L     | 9.1                  | 91.4 - 114.2             | 0.01 mg/L                 |
|                                           | M     | 4.3                  | 95.6 - 103.9             |                           |
| Ammonia + Organic<br>nitrogen as N, total | L     | 10.1                 | 83.6 - 115               | 0.2 mg/L                  |
|                                           | M     | 5.4                  | 90.9 - 111.8             |                           |
| Nitrate + Nitrite nitrogen<br>as N, total | L     | 9.8                  | 88.5 - 108.2             | 0.02 mg/L                 |
|                                           | M     | 5.6                  | 97 - 102.8               |                           |
| Nitrite nitrogen as N,<br>total           | L     | 12.5                 | 88.5 - 110               | 0.01 mg/L                 |
|                                           | M     | 6.6                  | 94.9 - 104.2             |                           |
| Orthophosphate as P,<br>total             | L     | 11                   | 83.3 - 107.7             | 0.01 mg/L                 |
|                                           | M     | 3.4                  | 95.5 - 103.3             |                           |
| Phosphorus as P, total                    | L     | 13.2                 | 79 - 121                 | 0.02 mg/L                 |
|                                           | M     | 3.4                  | 93 - 104.8               |                           |
| Carbon, Organic, dis-<br>solved           | L     | 15                   | 84 - 120                 | 0.1 mg/L                  |
|                                           | M     | 2.3                  | 96 - 102                 |                           |
| Carbon, Organic, total                    | L     | 16                   | 83 - 121                 | 0.1 mg/L                  |
|                                           | M     | 2.7                  | 93.2 - 107.2             |                           |
| Alkalinity as CaCO <sub>3</sub>           | L     | 8.9                  | 92 - 115                 | 1 mg/L                    |
|                                           | M     | 3.1                  | 98.5 - 101               |                           |
| Chloride                                  | L     | 9.5                  | 89 - 109                 | 0.1 mg/L                  |
|                                           | M     | 2.8                  | 97.7 - 104.5             |                           |
| Silica                                    | L     | 8.9                  | 86.9 - 118               | 0.01 mg/L                 |
|                                           | M     | 3.1                  | 94.9 - 109               |                           |
| Residue, non-filterable at<br>105 °C      | L     | 16.7                 | 75 - 120                 | 1 mg/L                    |
|                                           | M     | 5.9                  | 92 - 112                 |                           |
| Chlorophyll <i>a</i>                      | L     | 23                   | 88 - 109                 | 0.1 mg/L                  |
|                                           | M     | 8.9                  | 93 - 105                 |                           |
| Specific Conductance                      | L     | 9.8                  | 96.2 - 105.5             | 1 $\mu\text{S}/\text{cm}$ |
|                                           | M     | 1.8                  | 97.5 - 102.2             |                           |
| pH                                        | L     | 2.3                  | 93.4 - 108               | 0.1 pH unit               |
|                                           | M     | 0.9                  | 95.2 - 105               |                           |
| Turbidity                                 | L     | 12.2                 | 81 - 118                 | 1 NTU                     |
|                                           | M     | 3.5                  | 90.4 - 105               |                           |
| Color                                     | L     | 9.8                  | 75 - 125                 | 5 PCU units               |
|                                           | M     | 2.3                  | 87.5 - 114.3             |                           |





**[Back to Start](#)**

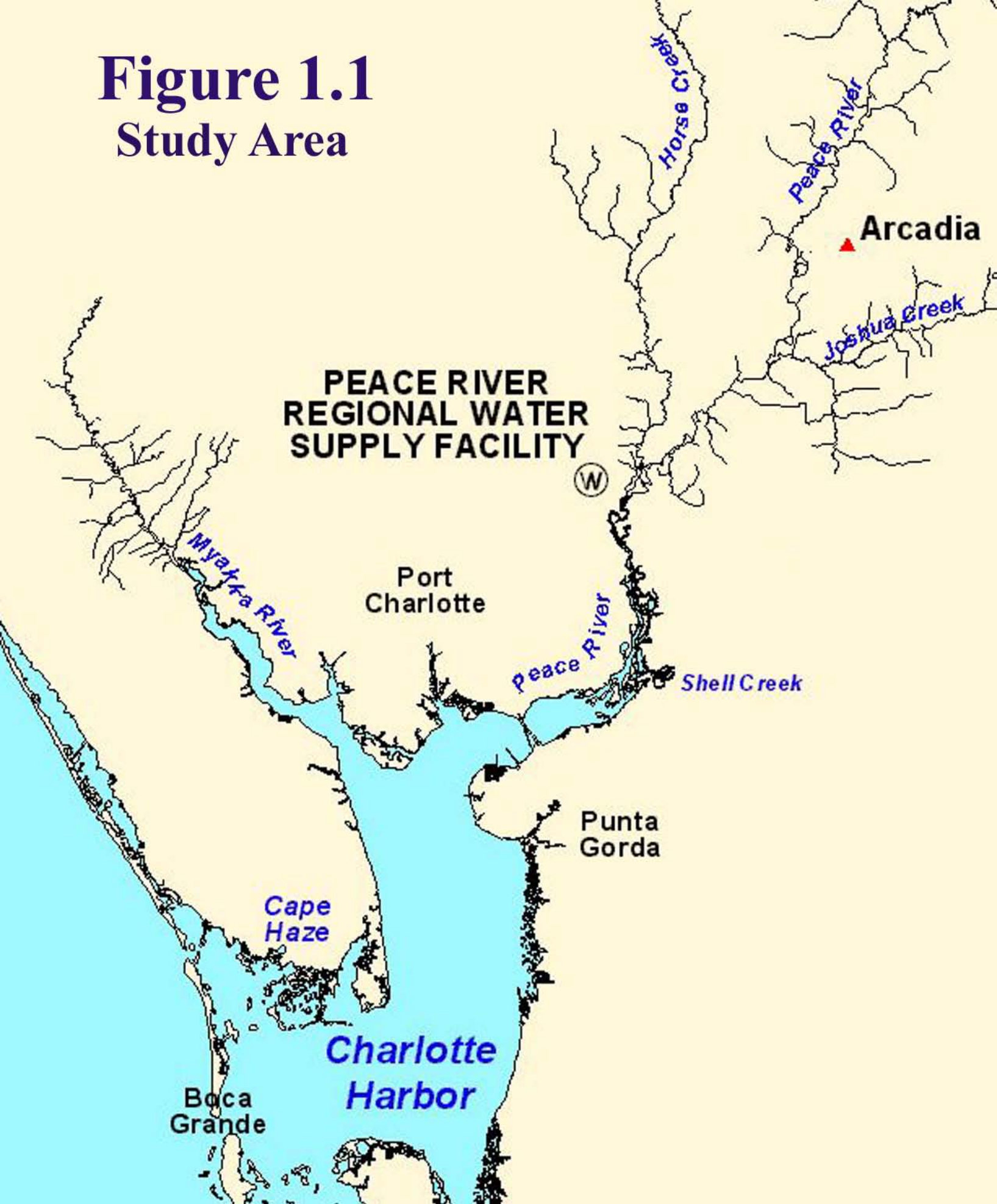
# **This File Contains Additional Tables Not Included in the Text of the 1999 HBMP Data Report**



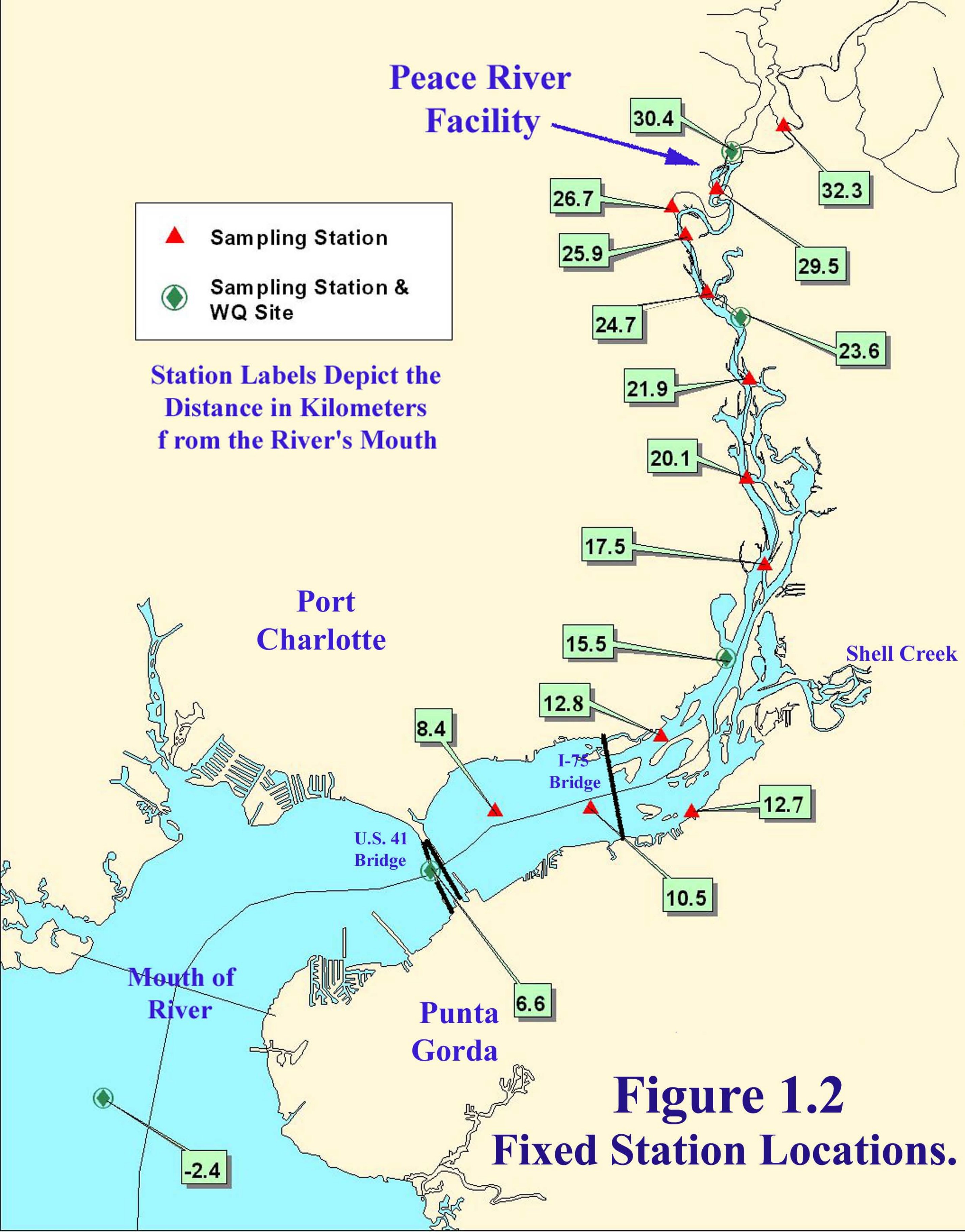
**[Back to Start](#)**

**This File Contains all Figures  
from the 1999 HBMP Data Report**

**Figure 1.1**  
**Study Area**









**PEACE RIVER  
REGIONAL WATER  
SUPPLY FACILITY**

Horse Creek

## **Figure 1.3**

### **Vegetation Transect Locations**

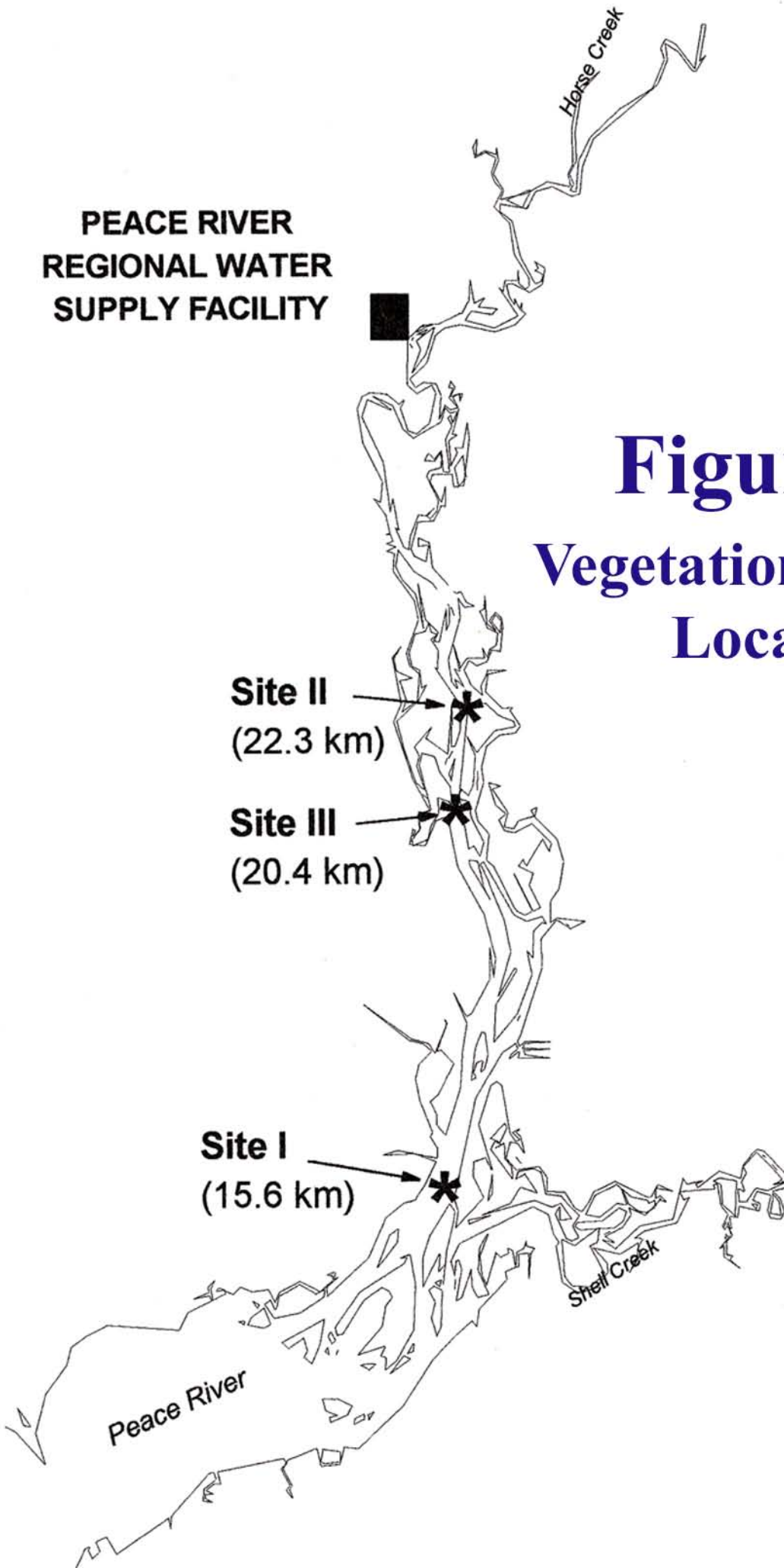
**Site II**  
(22.3 km)

**Site III**  
(20.4 km)

**Site I**  
(15.6 km)

Shell Creek

Peace River



# Peace River Flow at Arcadia 1999

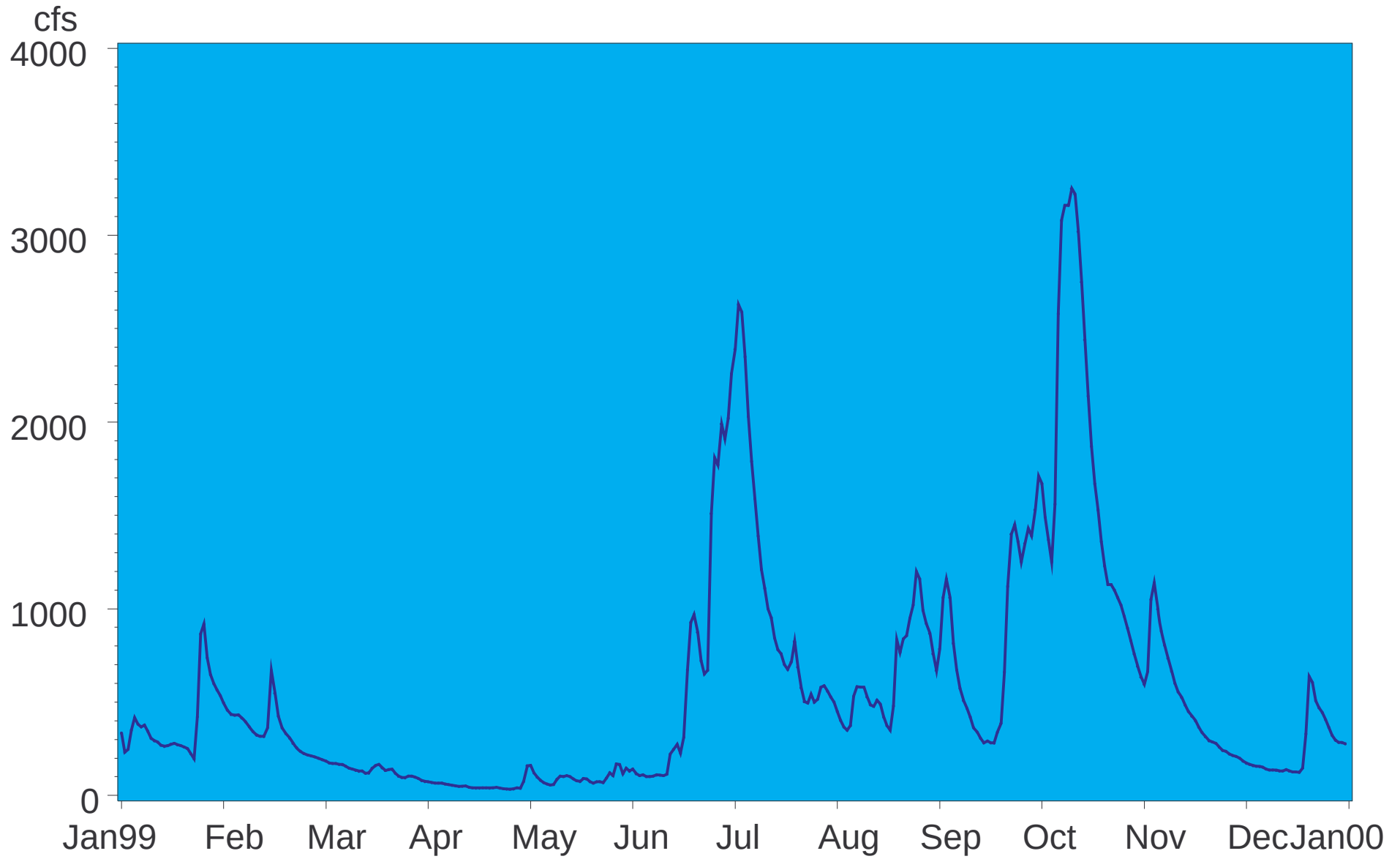


Figure 2.1 Daily Peace River Flow at Arcadia (1999).

Peace River Flow at Arcadia  
1976 - 1999

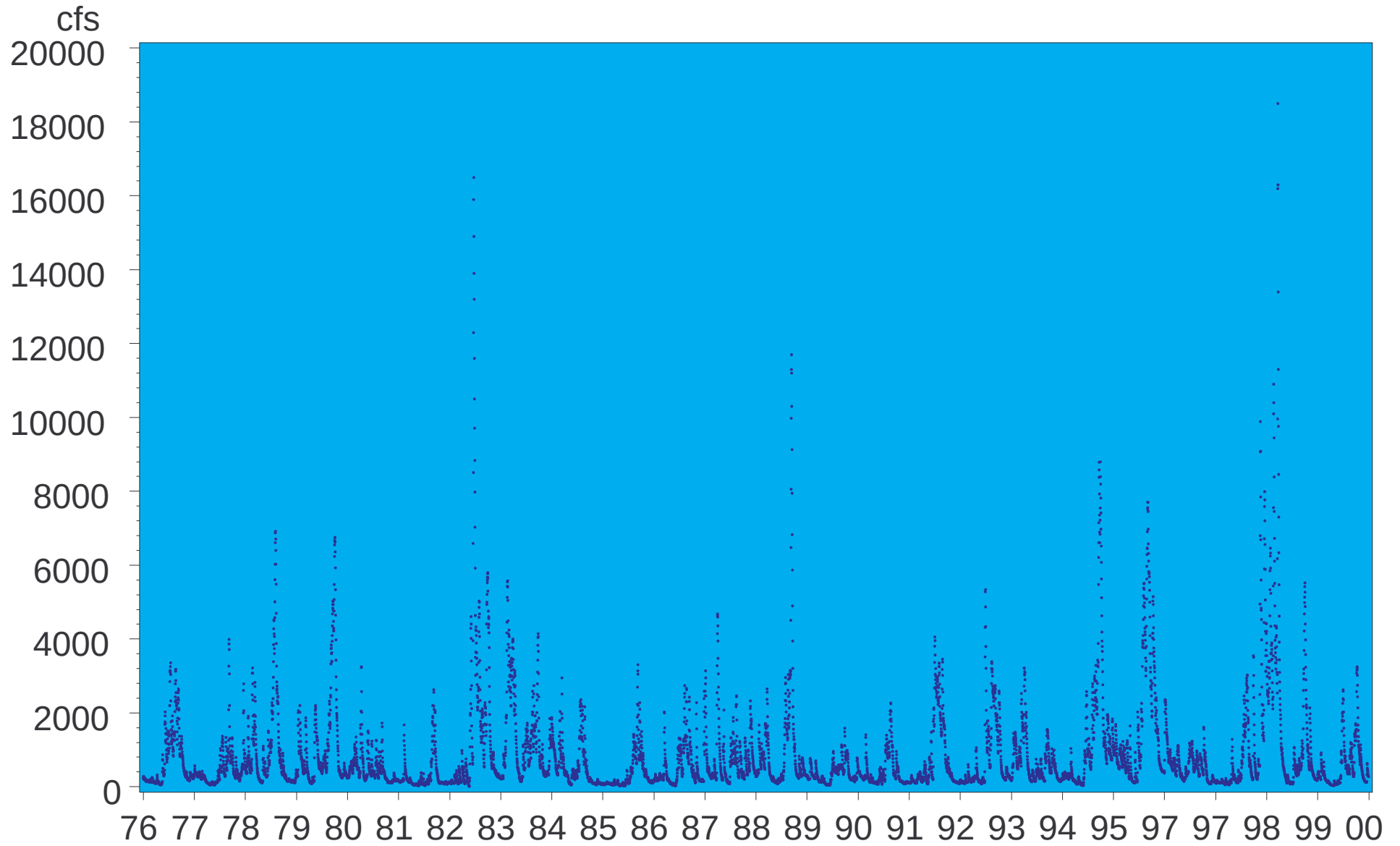


Figure 2.2 Daily Peace River Flow at Arcadia (1976-1999).



# Peace River Flow at Arcadia 1976-1999

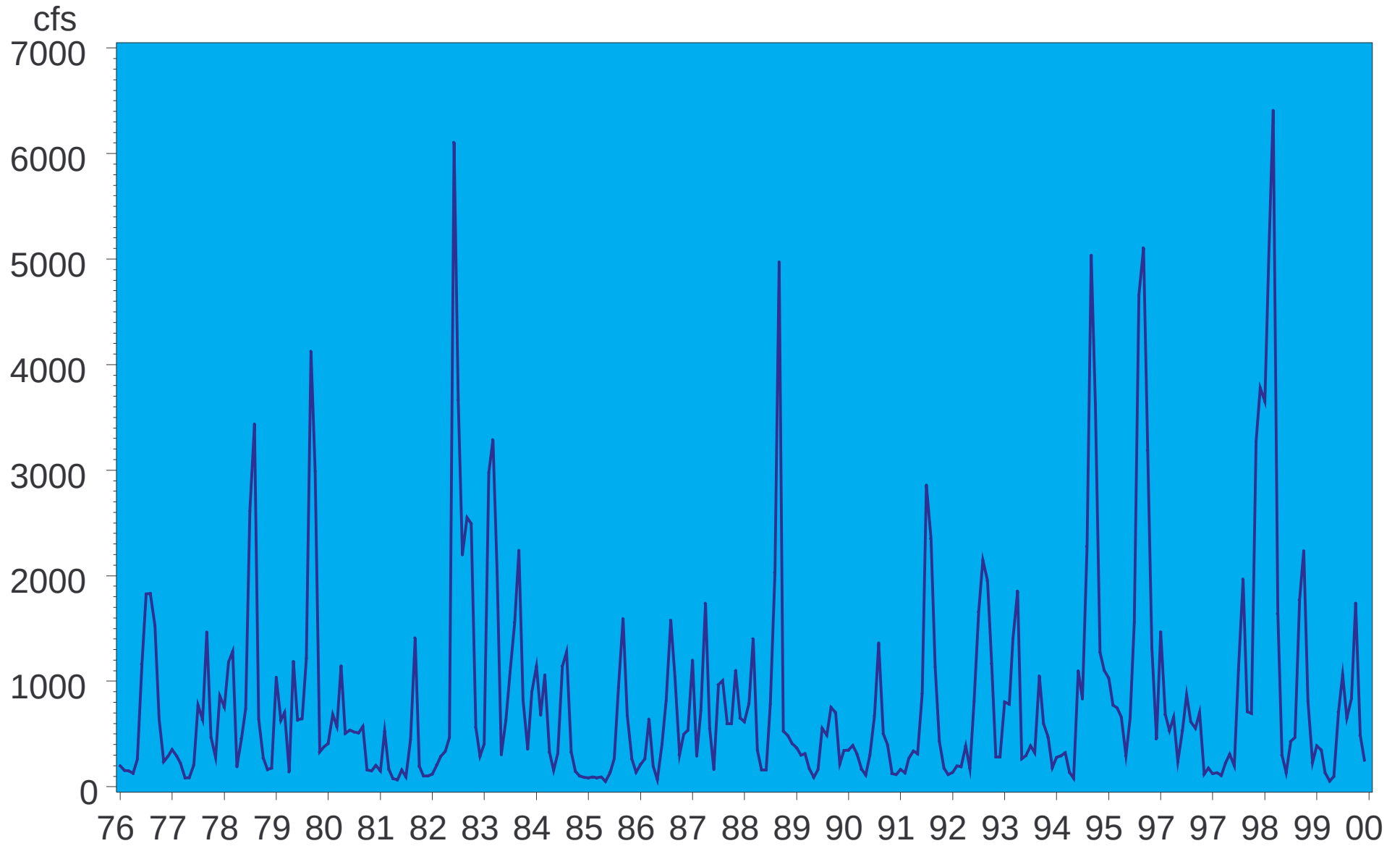


Figure 2.3 Monthly Mean Peace River Flow at Arcadia (1976-1999).

# Peace River Flow at Arcadia 1976-1999

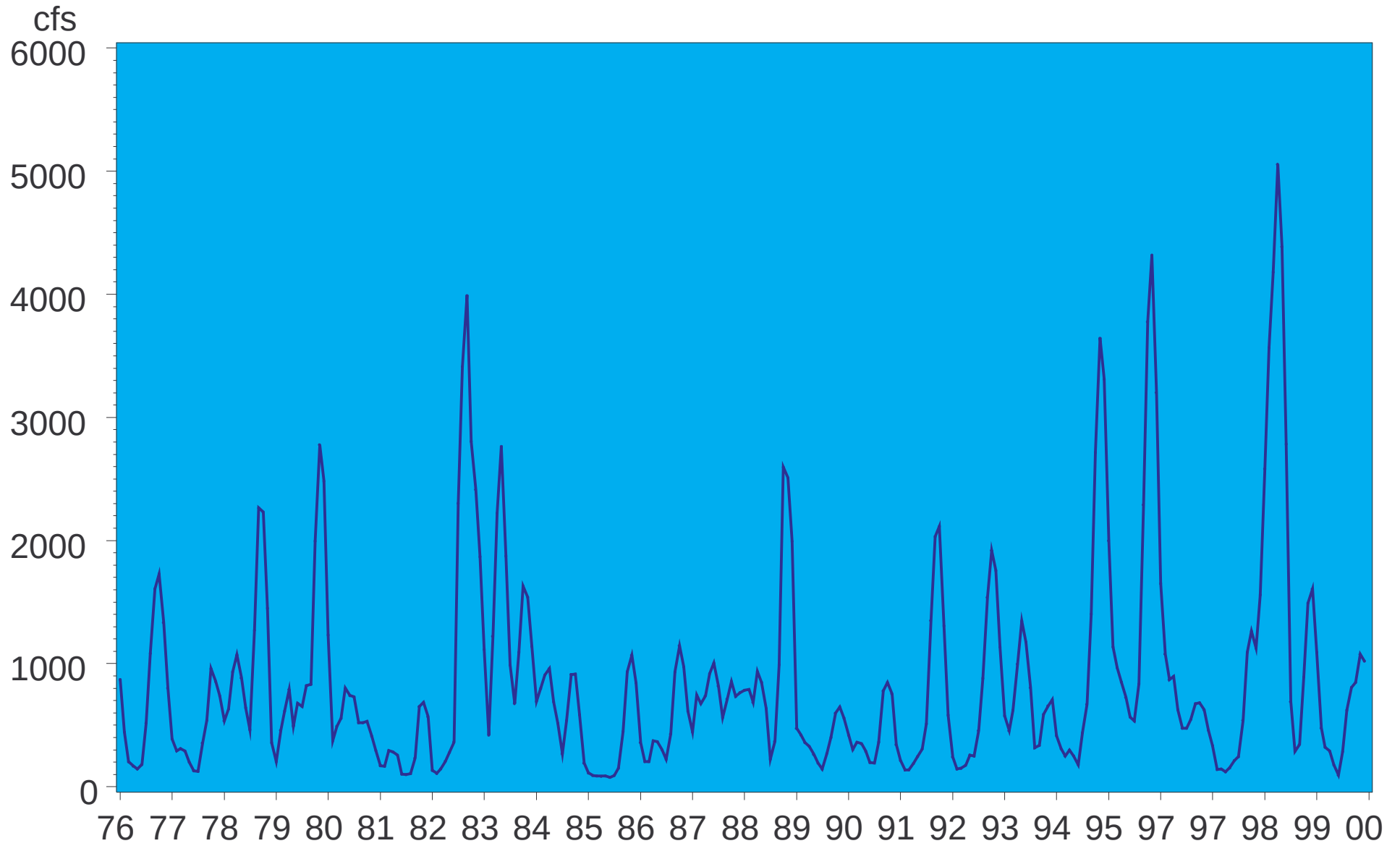


Figure 2.4 3-Month Moving Average Peace River Flow at Arcadia (1976-1999).

# Peace at Arcadia + Horse + Joshua + Shell Flow 1999

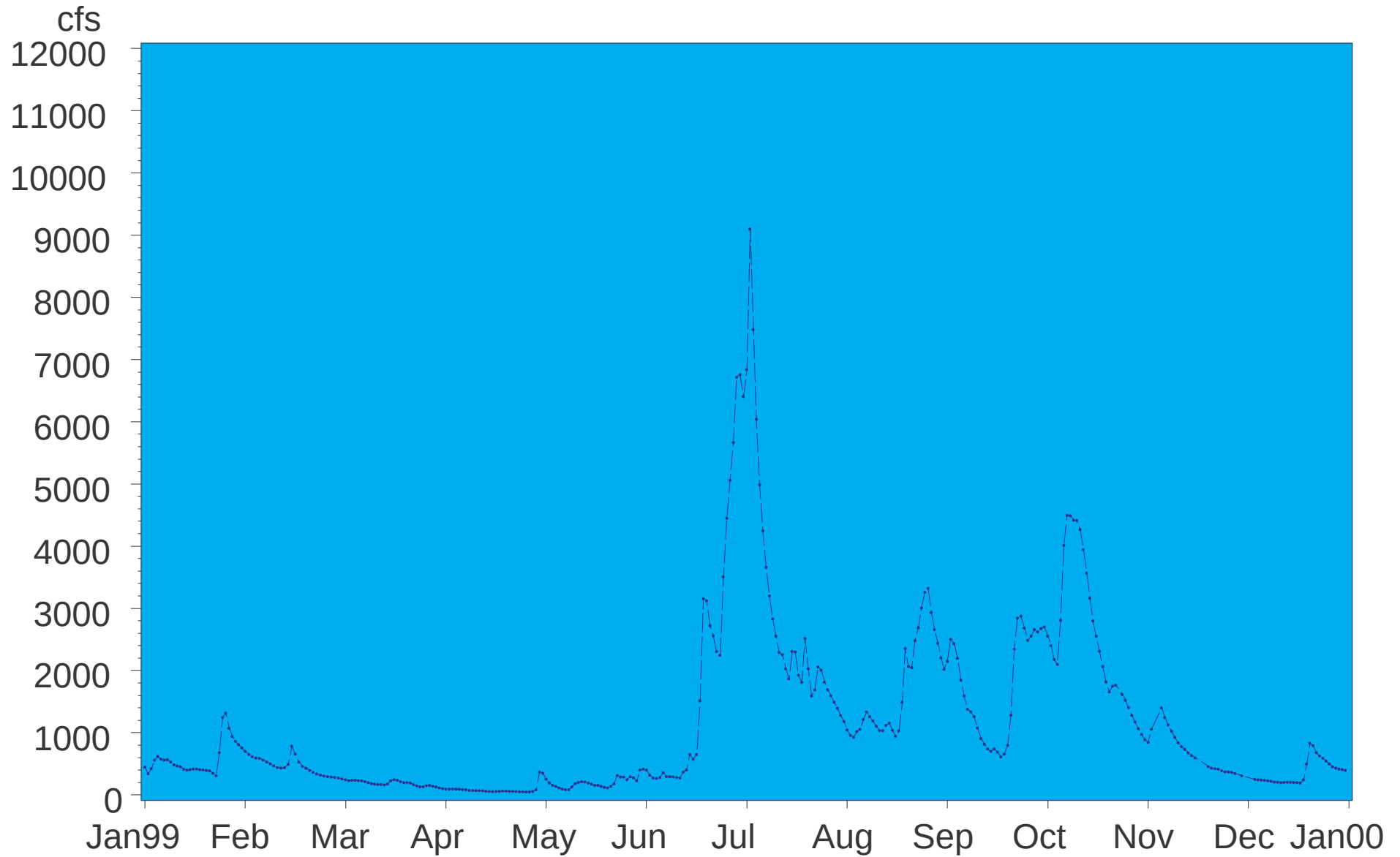


Figure 2.5 Daily Peace at Arcadia + Horse + Joshua + Shell (1999).

Peace at Arcadia + Horse + Joshua + Shell Flow  
1976-1999

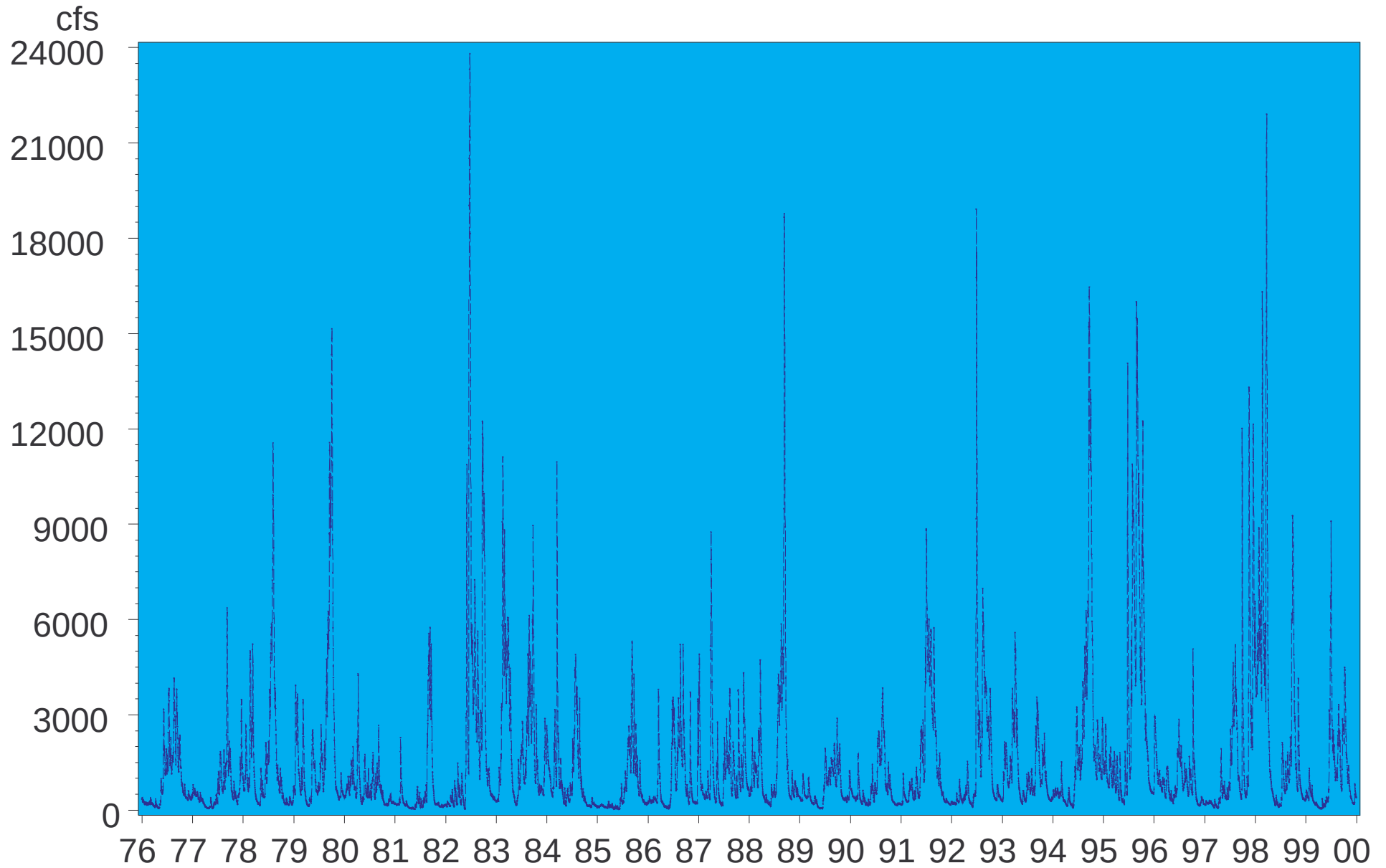


Figure 2.6 Daily Peace at Arcadia + Horse + Joshua + Shell (1976-1999).

Peace at Arcadia + Horse + Joshua + Shell Flow  
Monthly Mean 1976-1999

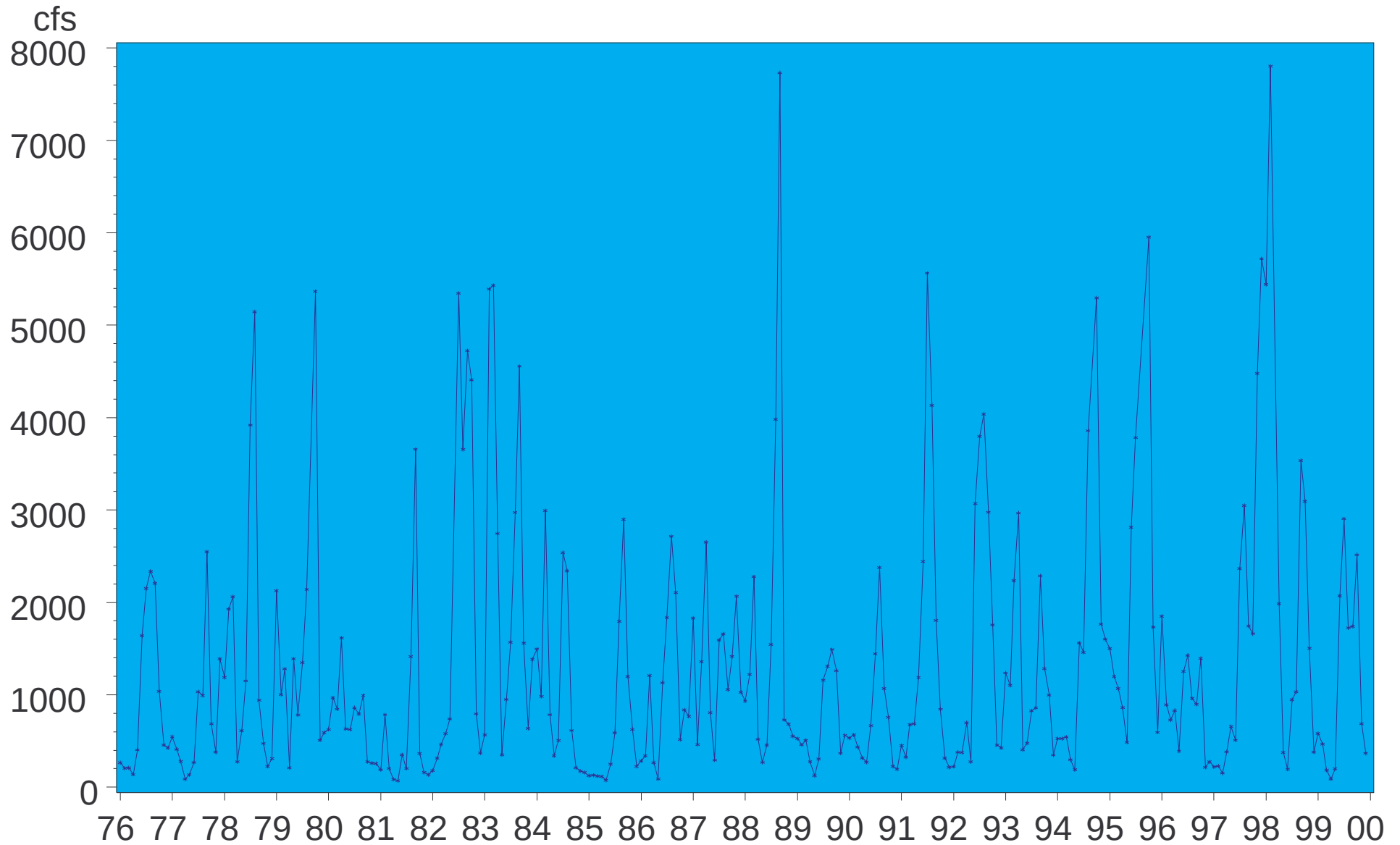


Figure 2.7 Monthly Mean Peace at Arcadia + Horse + Joshua + Shell (1976-1999).

Peace at Arcadia + Horse + Joshua + Shell Flow  
3-Month Moving Average 1976-1999

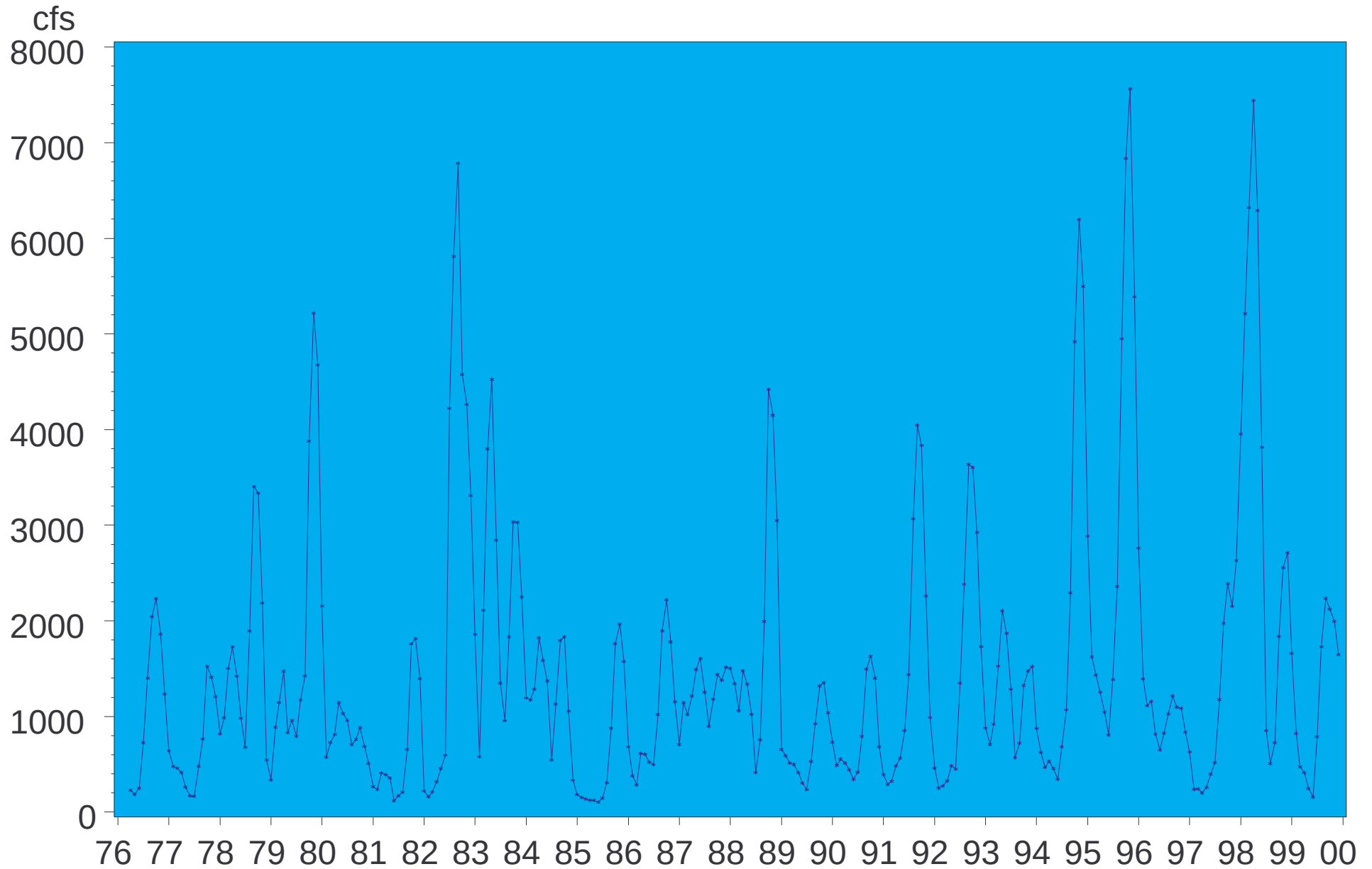


Figure 2.8 3-Month Moving Average Peace at Arcadia + Horse + Joshua + Shell (1976-1999).

## Peace River Withdrawal 1999

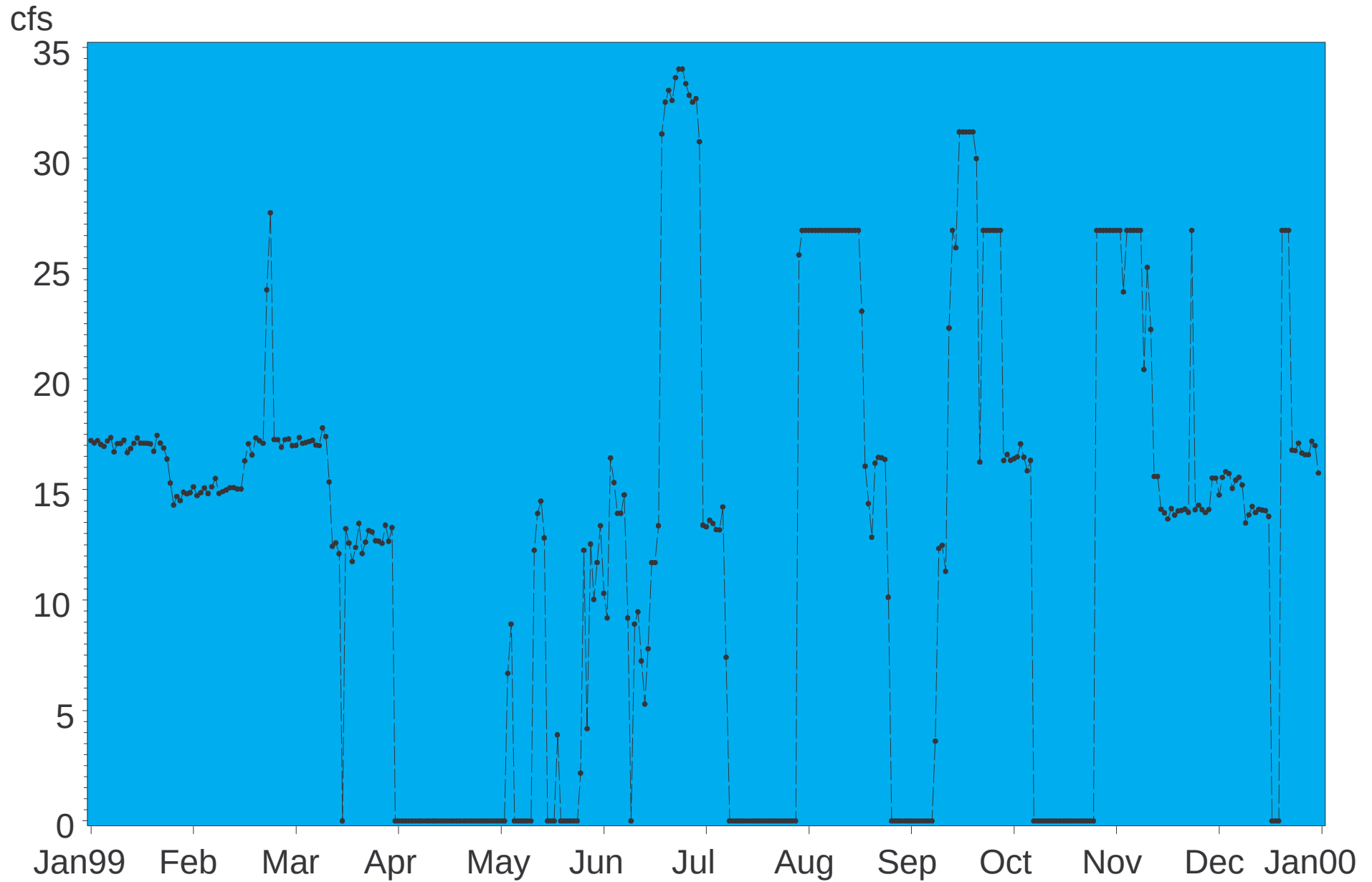


Figure 2.9 Daily Water Treatment Facility Withdrawals (1999)



# Peace River Withdrawal 1980 - 1999

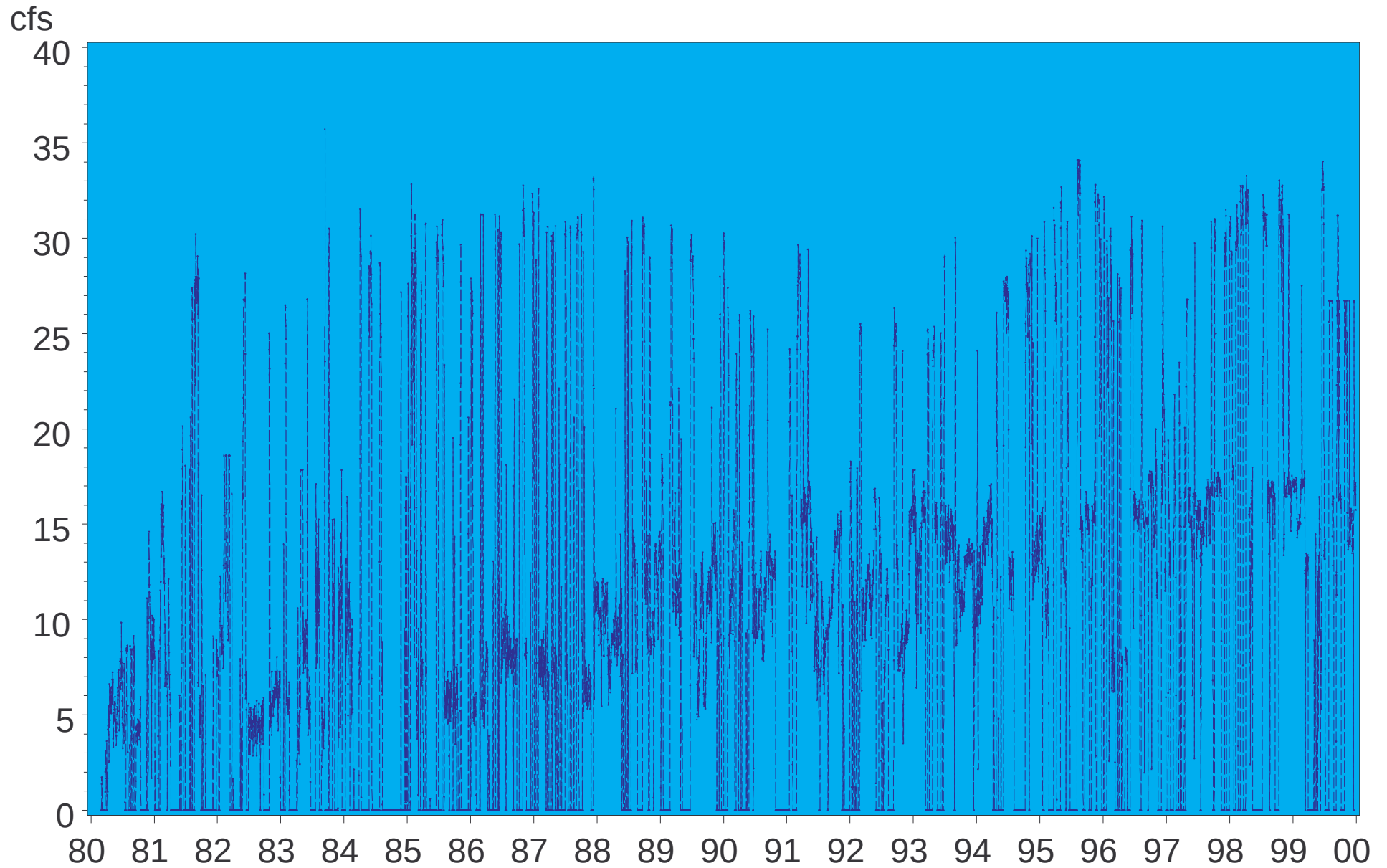


Figure 2.10 Daily Water Treatment Facility Withdrawals (1980-1999)

# Peace River Withdrawal 1980-1999 Monthly Mean

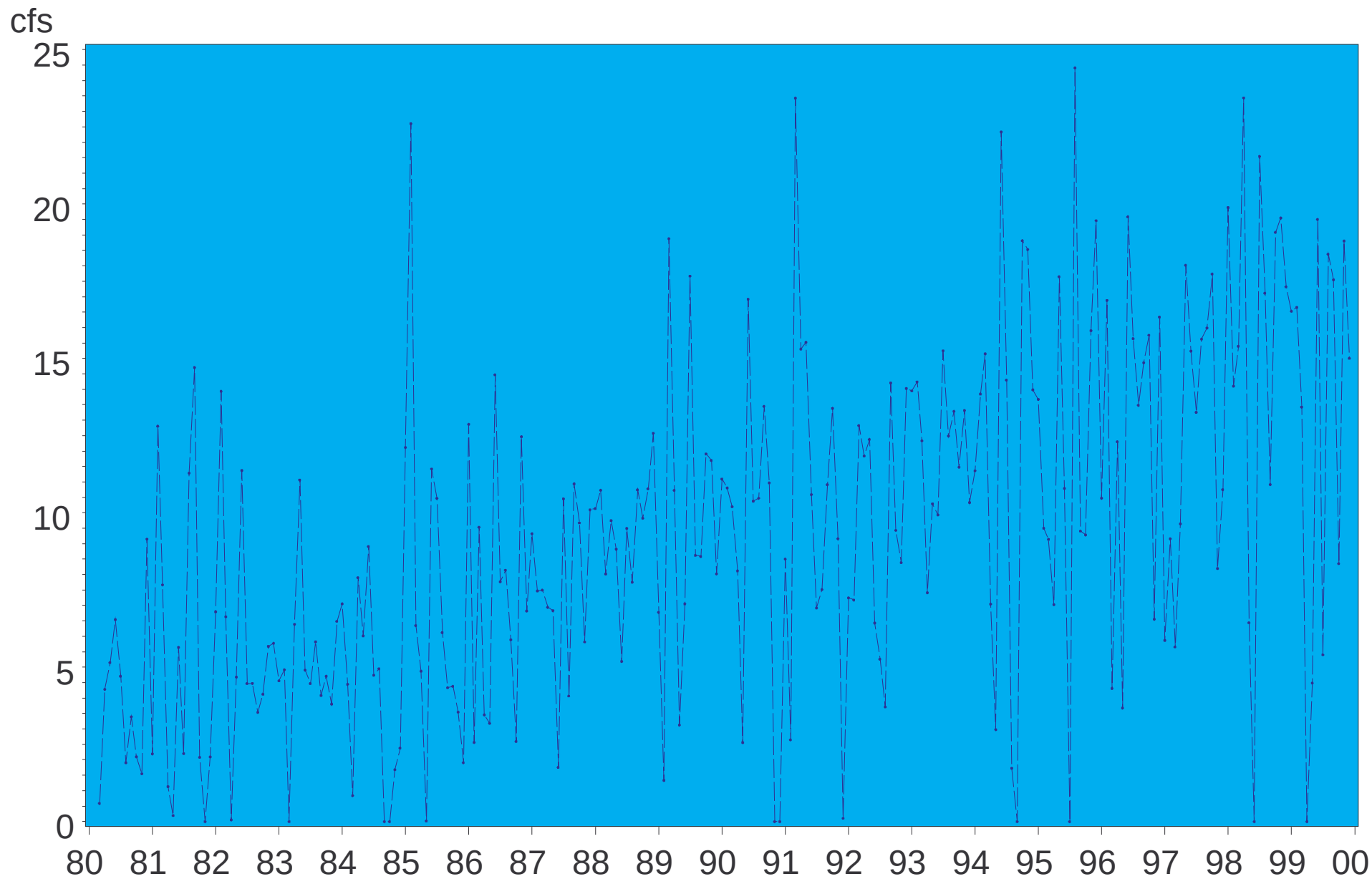


Figure 2.11 Monthly Mean Water Treatment Facility Withdrawals (1980-1999)

# Peace River Withdrawal 1980-1999 3-Month Moving Average

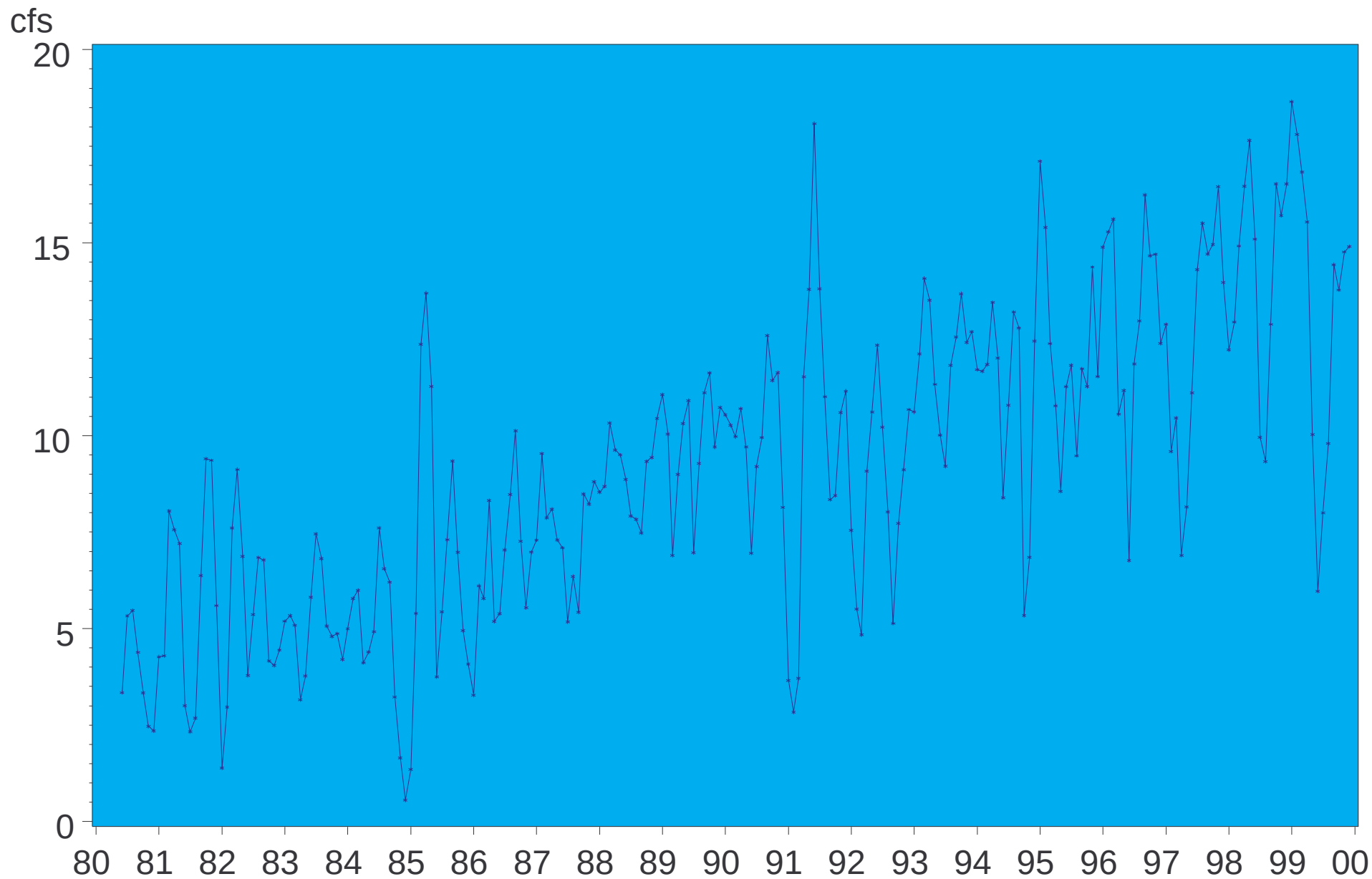


Figure 2.12 3-Month Moving Average Water Treatment Facility Withdrawals (1980-1999)

## Peace River Flows at Arcadia and Withdrawals 1999

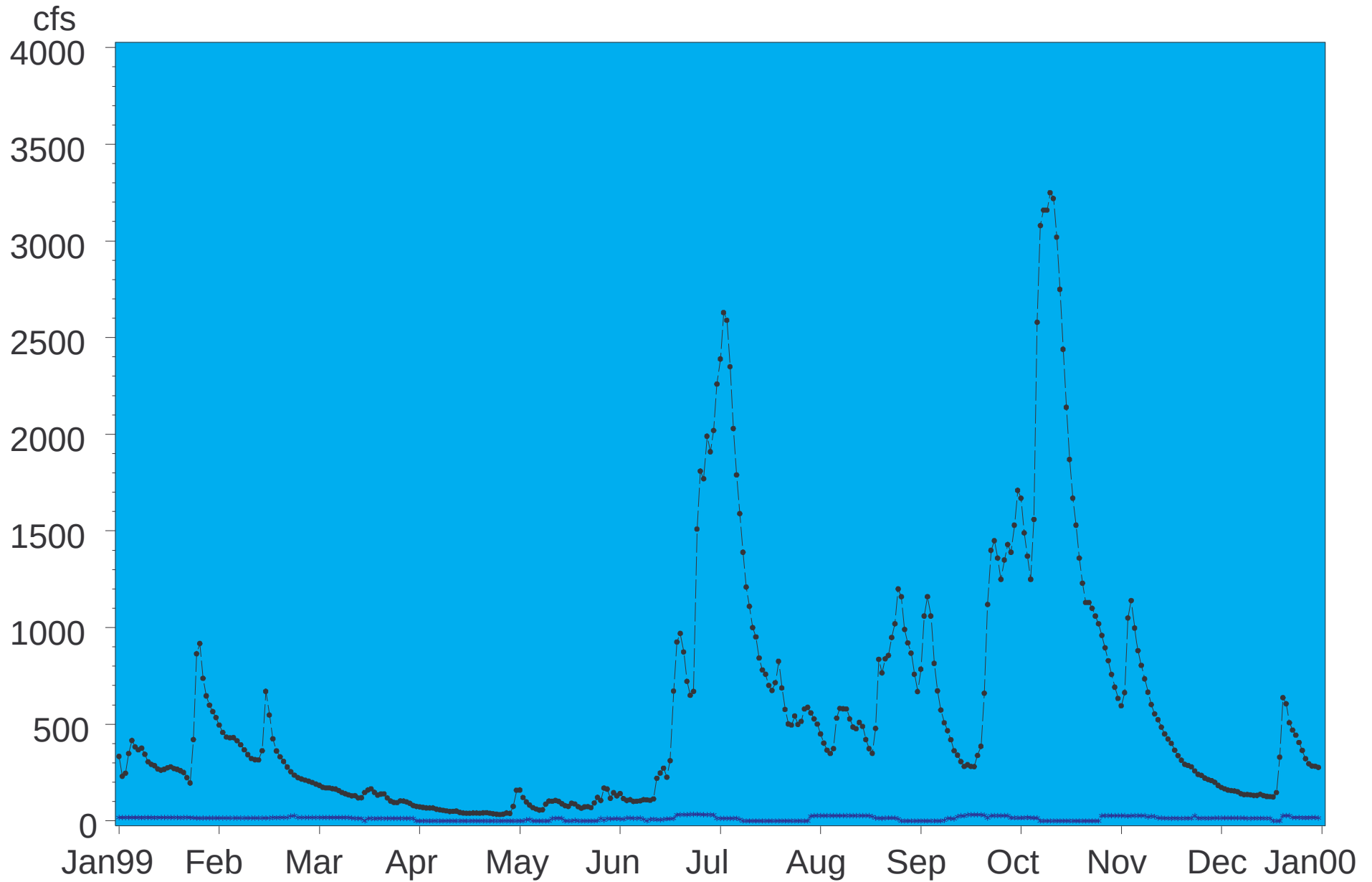


Figure 2.13 Peace River Flows at Arcadia and Water Treatment Facility Withdrawals (1999)

# Peace at Arcadia+Horse+Joshua+Shell Flow and Withdrawals 1999

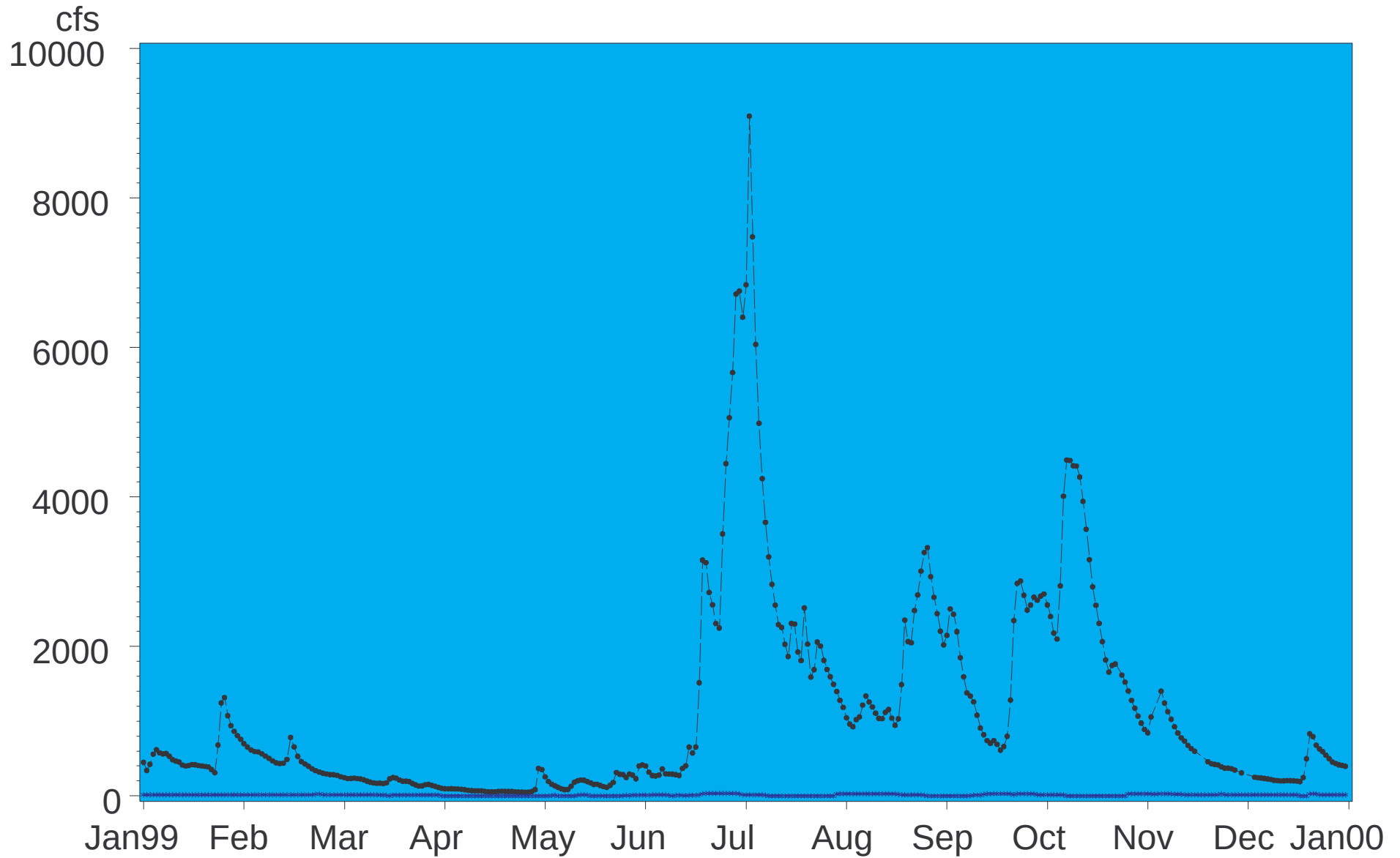


Figure 2.14 Peace River at Arcadia + Horse + Joshua + Shell Flow and Water Treatment Facility Withdrawals (1999)

# Peace River Flows at Arcadia vs. Withdrawals 1999

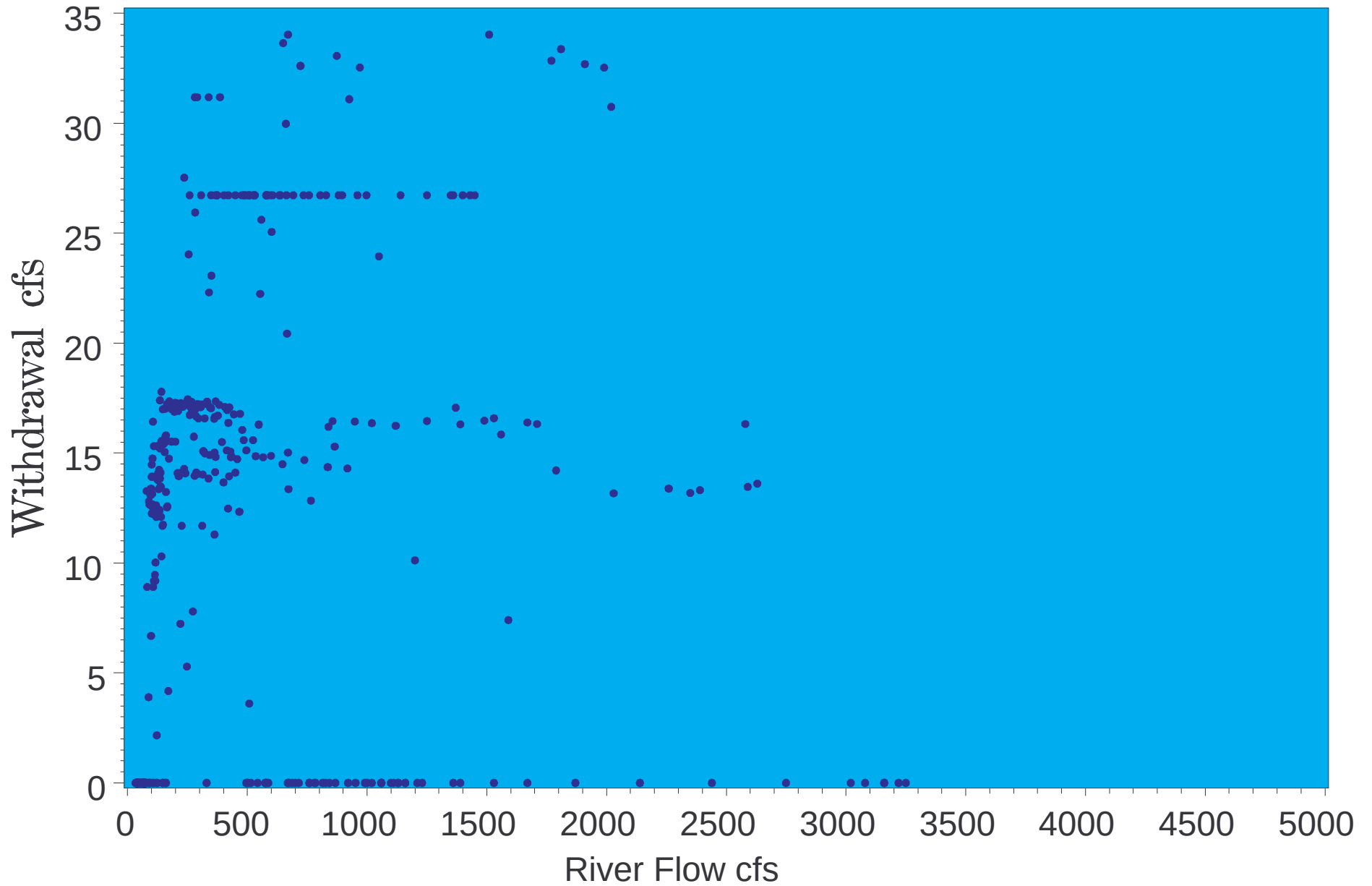


Figure 2.15 Peace River Flows at Arcadia vs. Water Treatment Facility Withdrawals (1999)

# Peace River Flows at Arcadia vs. % Withdrawals 1999

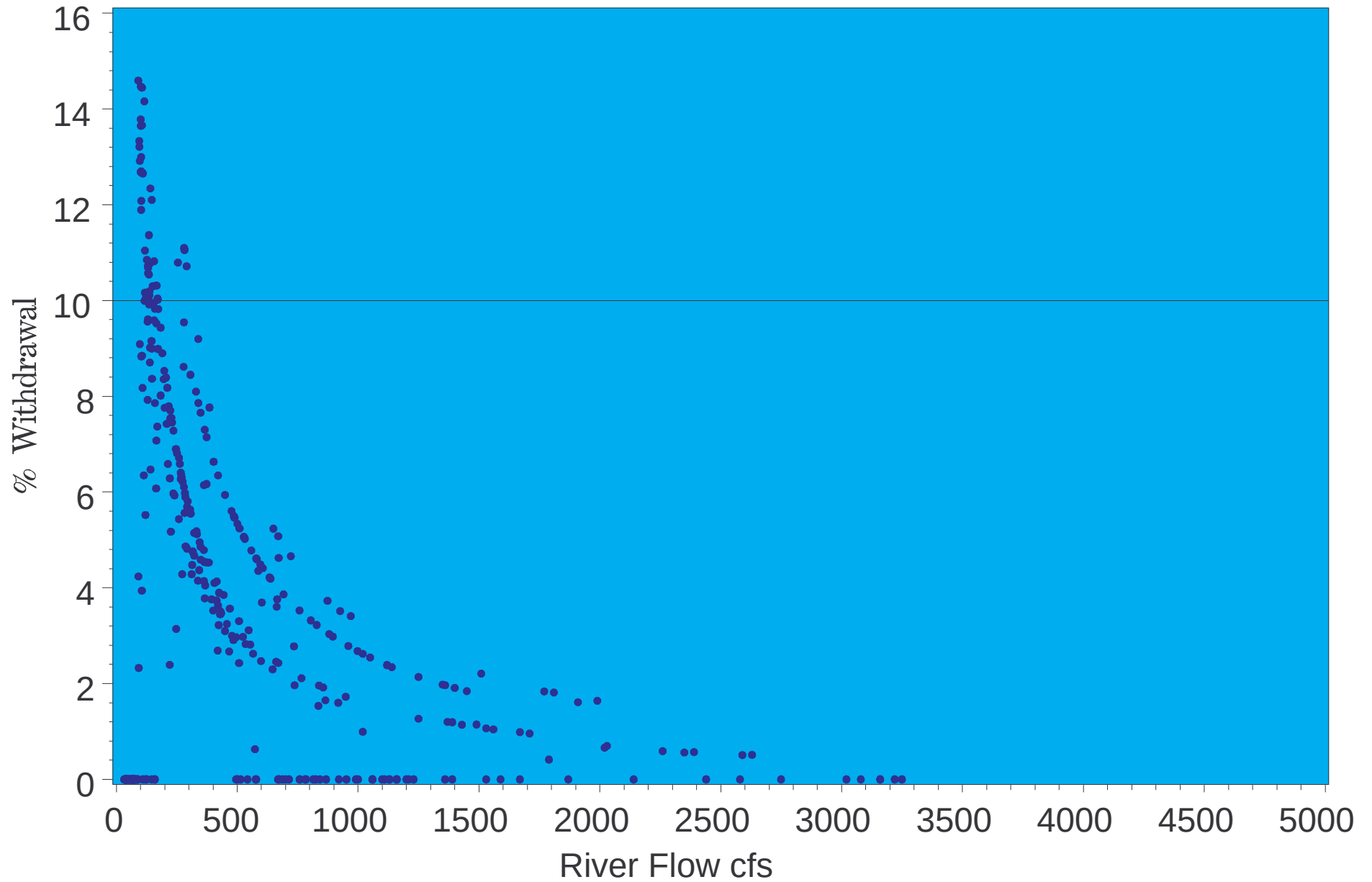
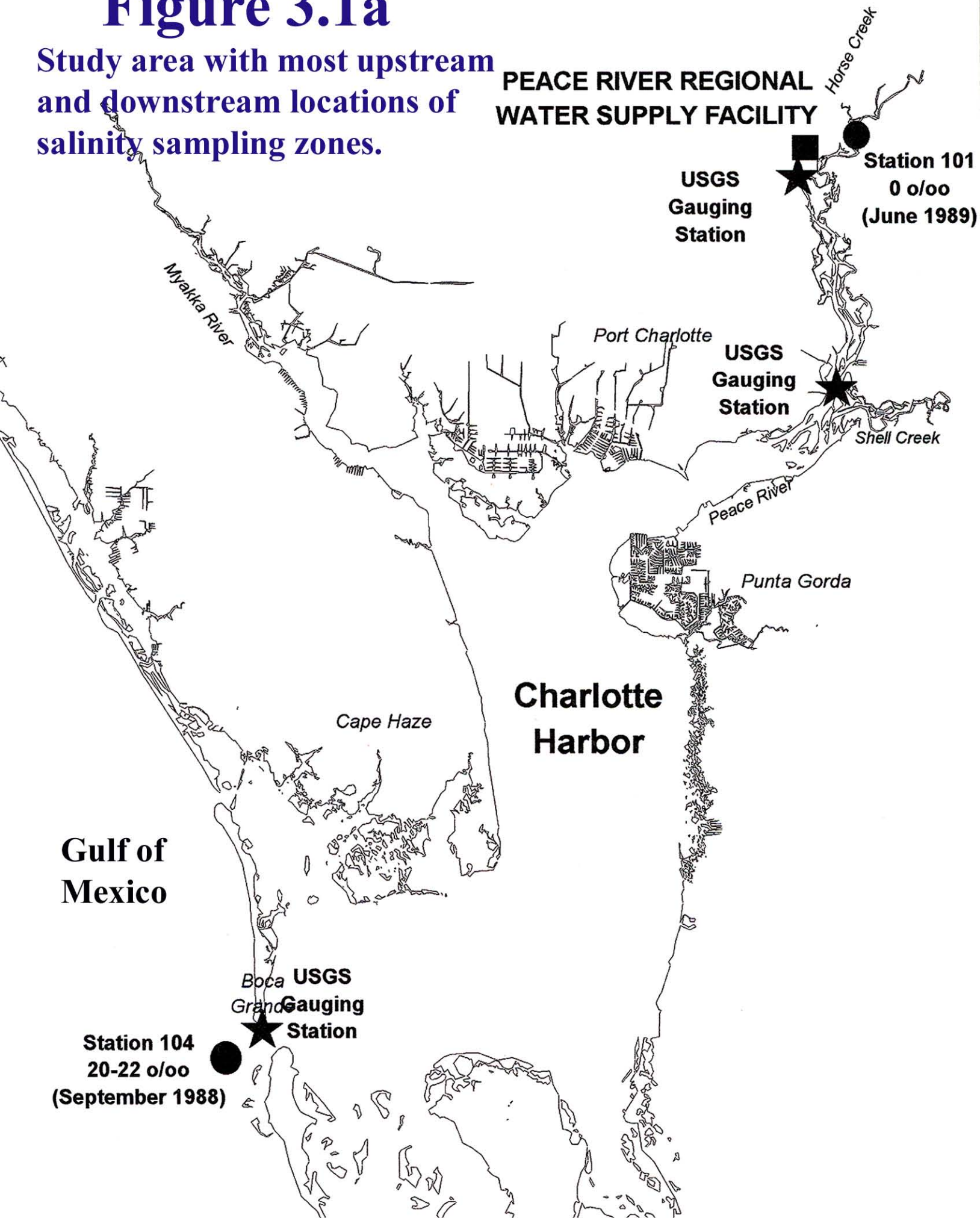


Figure 2.16 Peace River Flows at Arcadia vs. % Water Treatment Facility Withdrawals (1999)



# Figure 3.1a

Study area with most upstream and downstream locations of salinity sampling zones.



# CHARLOTTE HARBOR HBMP 1999 Moving Station Locations

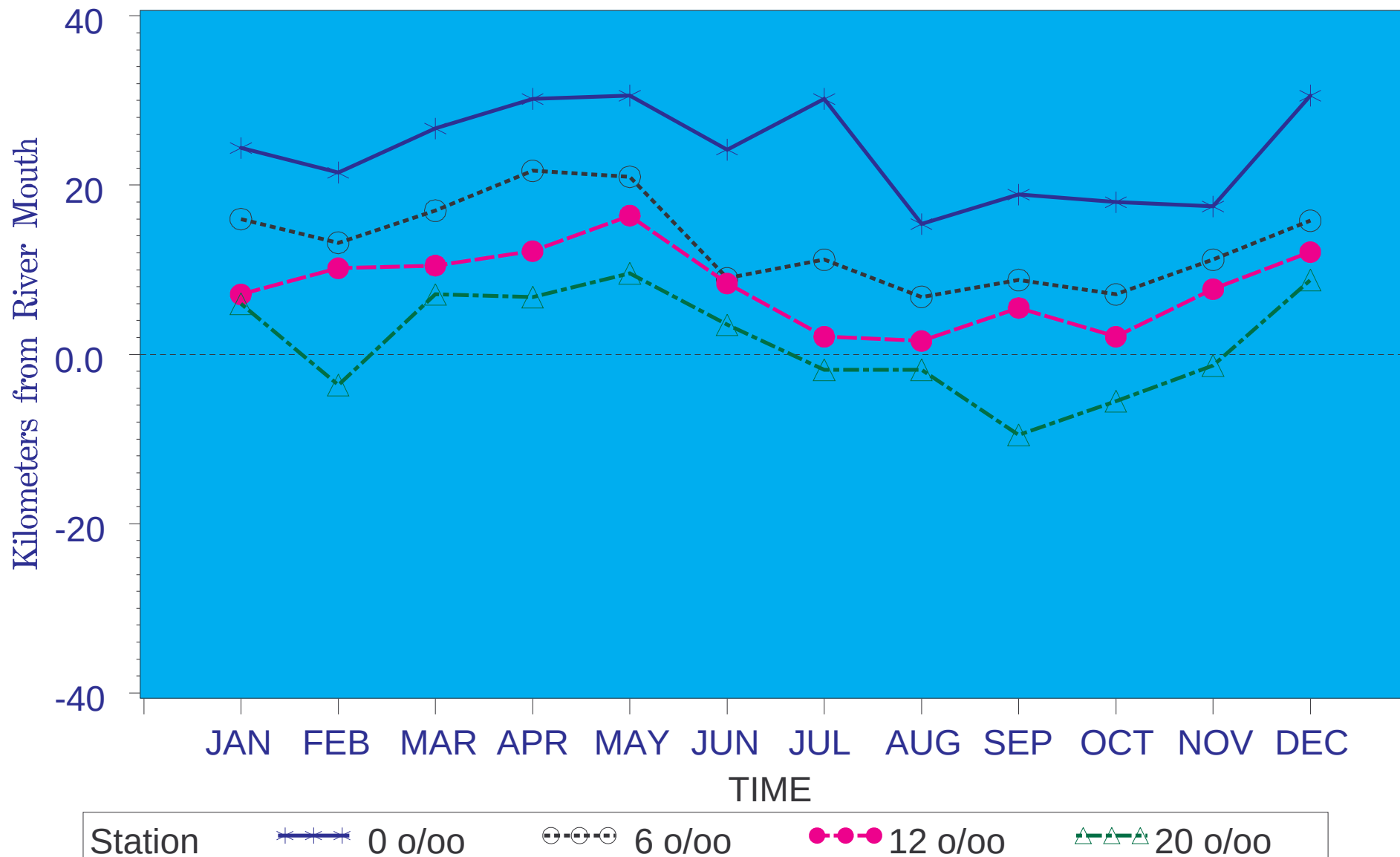


Figure 3.1(b) Relative distance (km) from the Mouth of the River -1999.

# CHARLOTTE HARBOR HBMP 1983-1999 Moving Station Locations

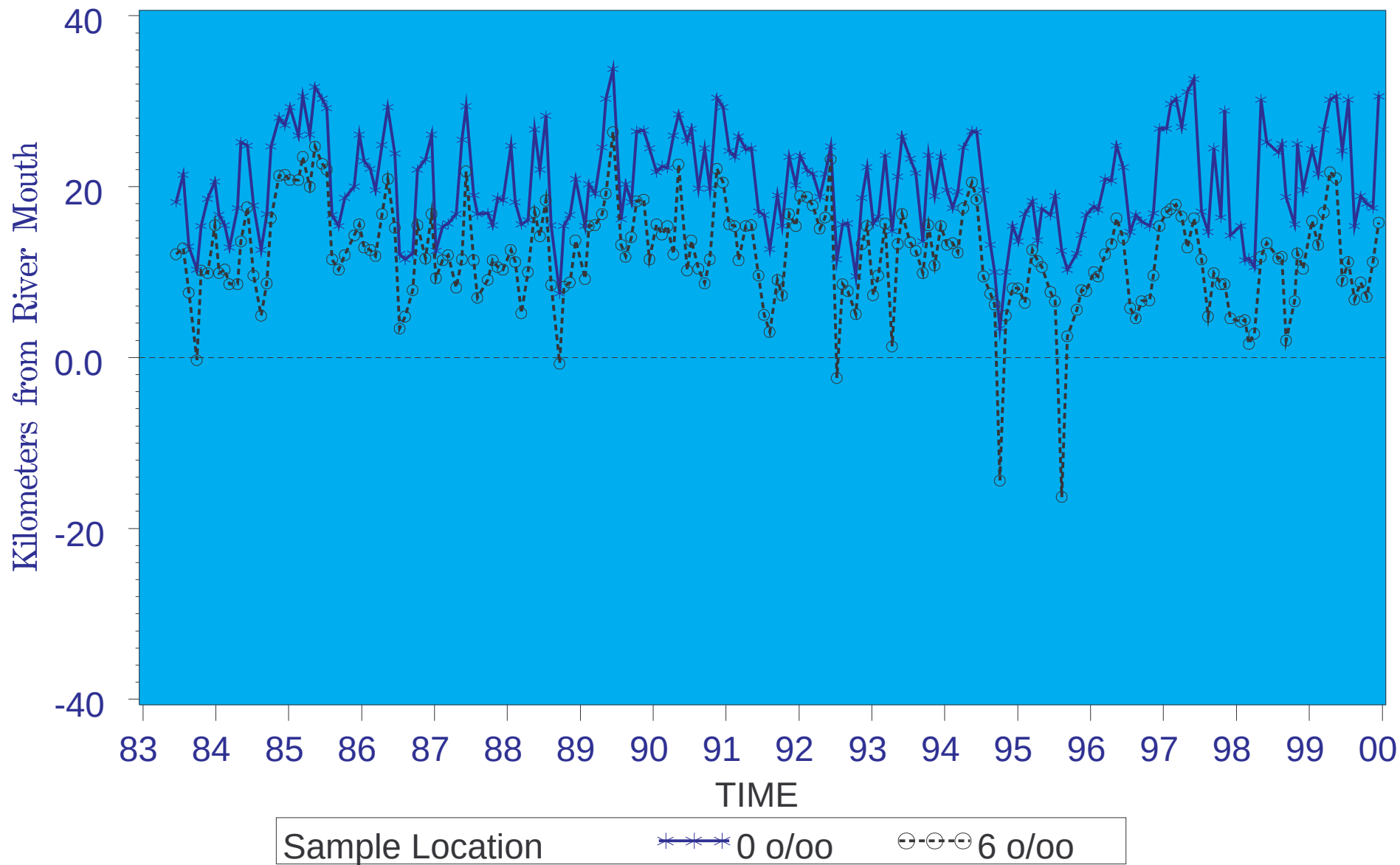


Figure 3.1(c) Relative distance (km) from the Mouth of the River of 0 and 6 ppt salinity sampling zones (1983-1999).

# CHARLOTTE HARBOR HBMP 1983-1999 Moving Station Locations

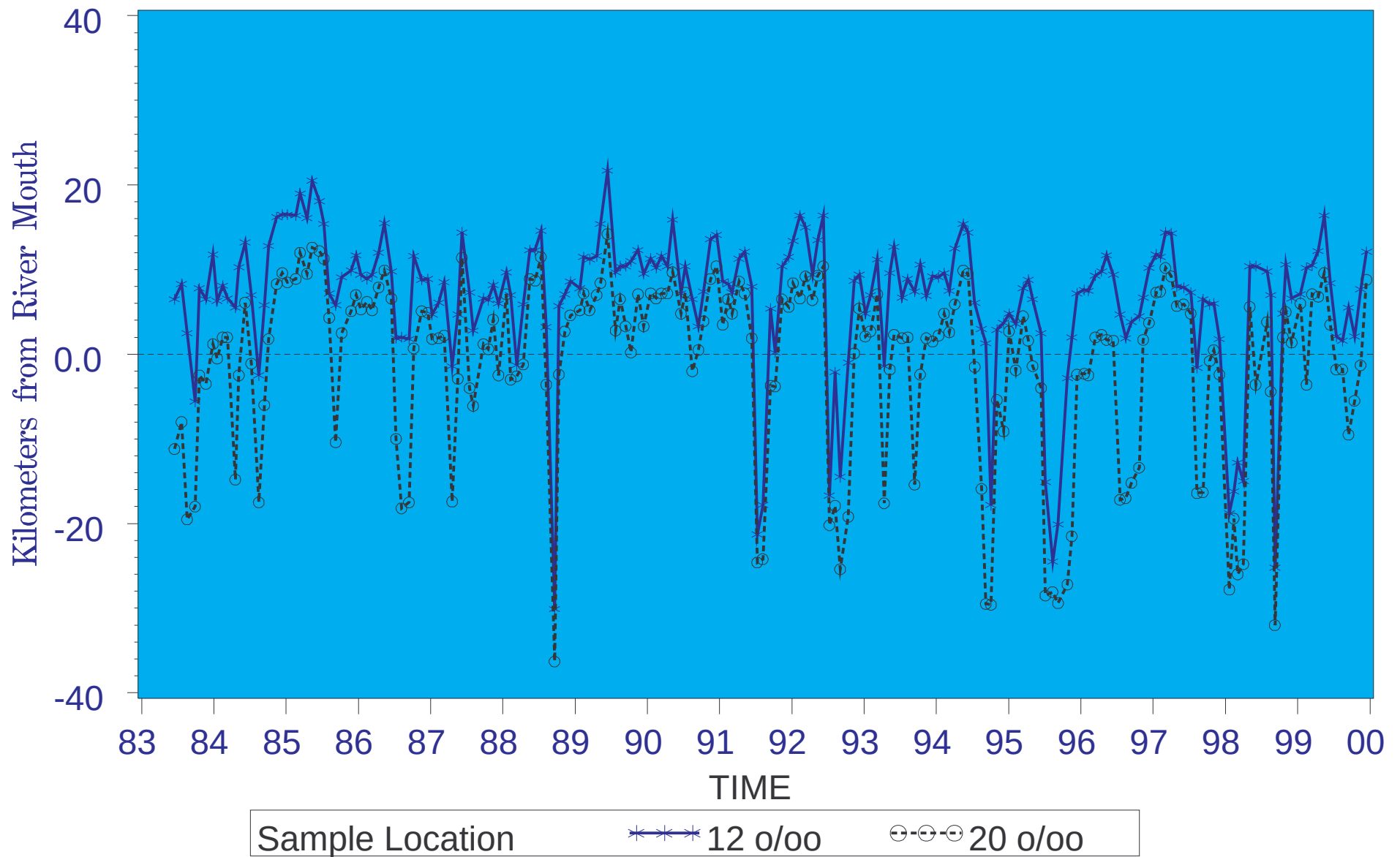


Figure 3.1(d) Relative distance (km) from the Mouth of the River of 12 and 20 ppt salinity sampling zones (1983-1999).

# CHARLOTTE HARBOR HBMP 1983-1999 Distances (kilometers)

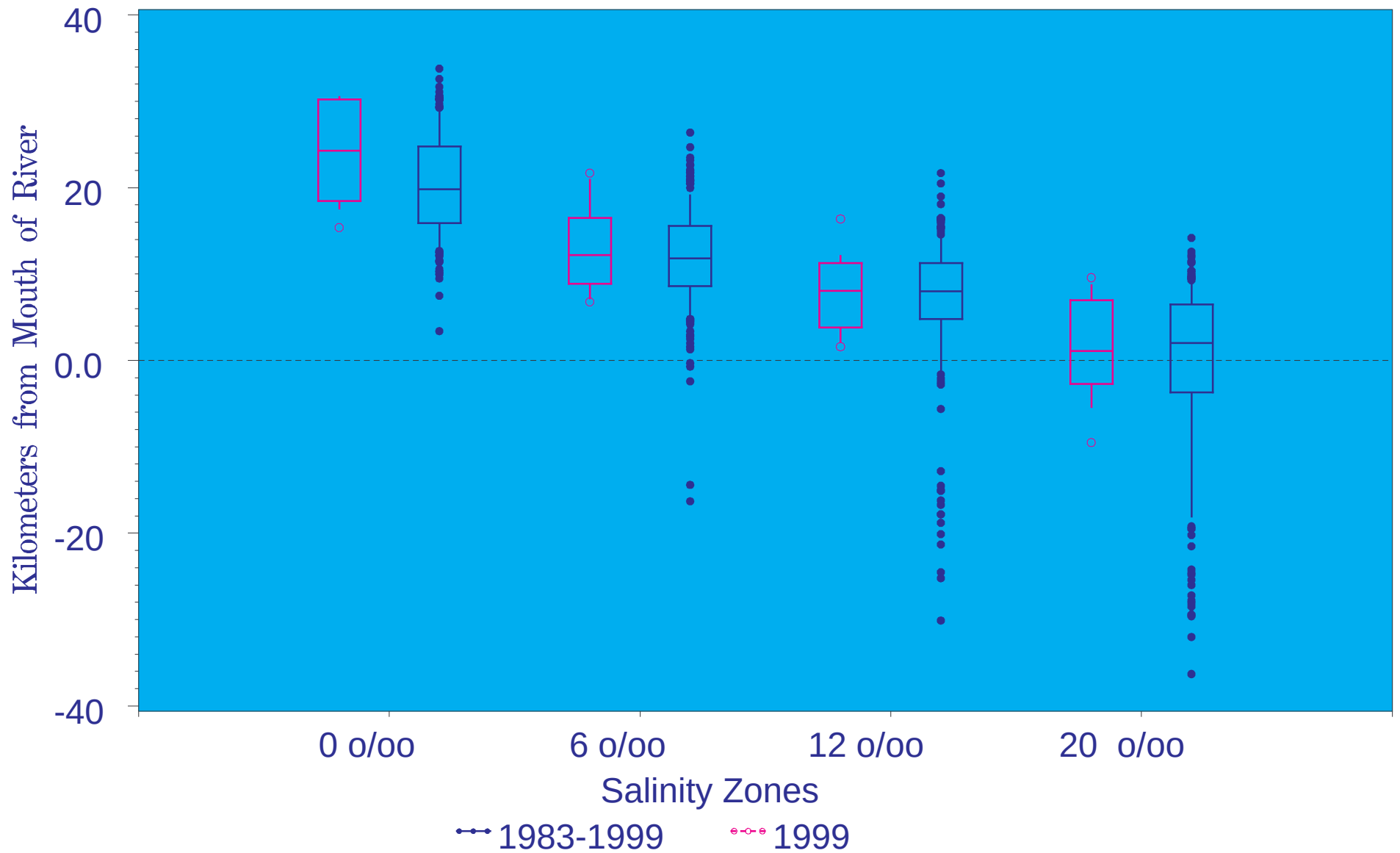
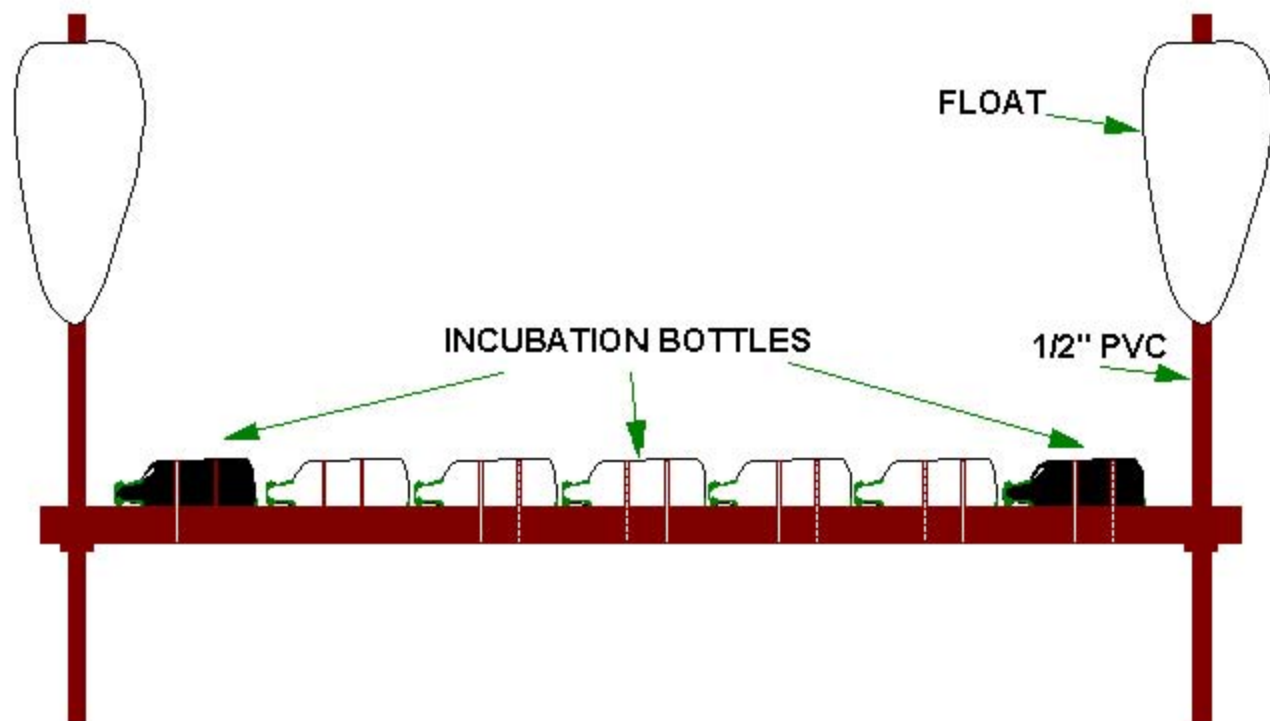


Figure 3.1(e) Box & Whiskers of relative distance (km) from the Mouth of the River.



**Figure 3.2 *In Situ* Incubation Racks**

# HBMP 1999 Temperature

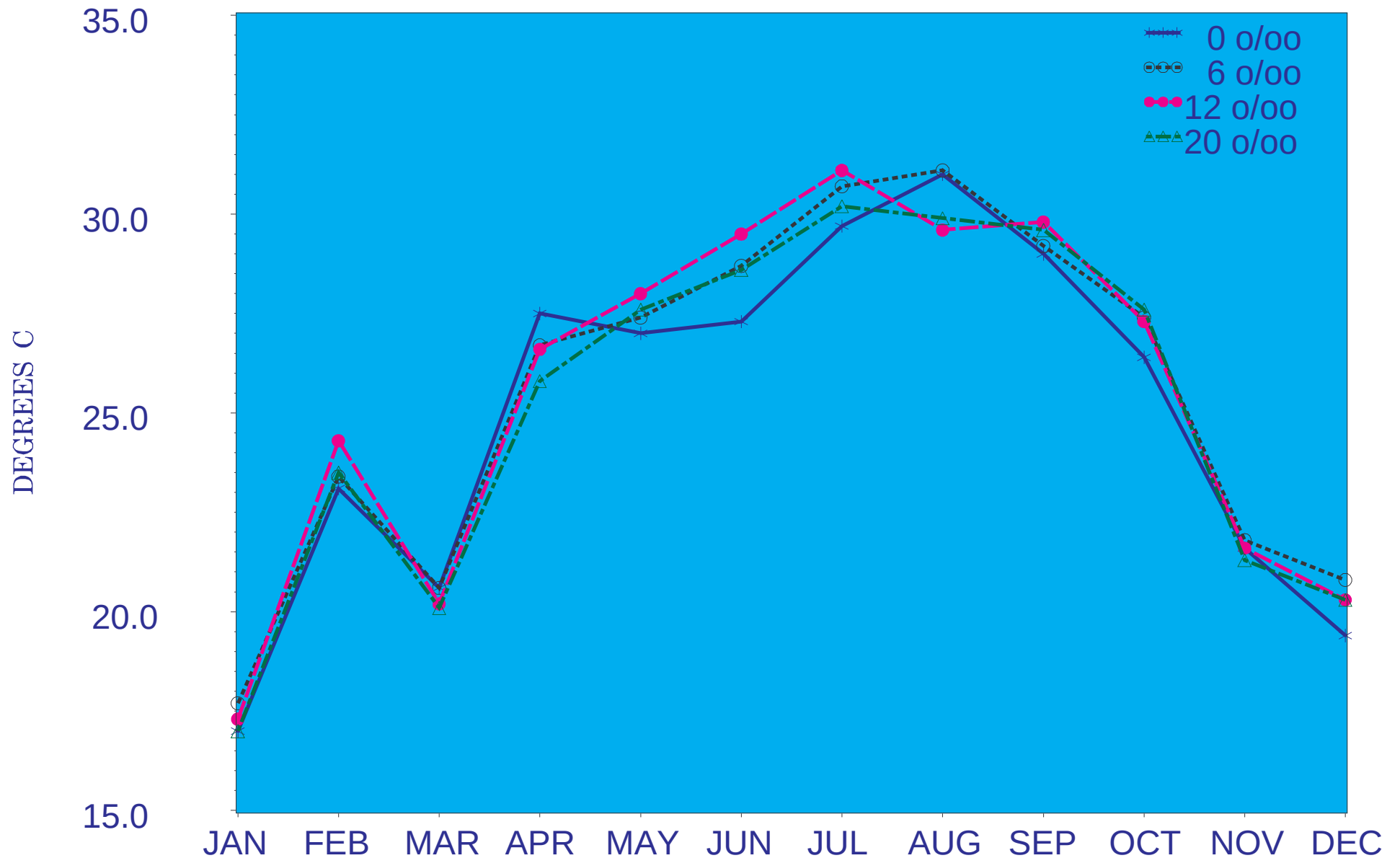


Figure 3.3 1999 Temperature at salinity sampling zones.



# HBMP 1999 Color

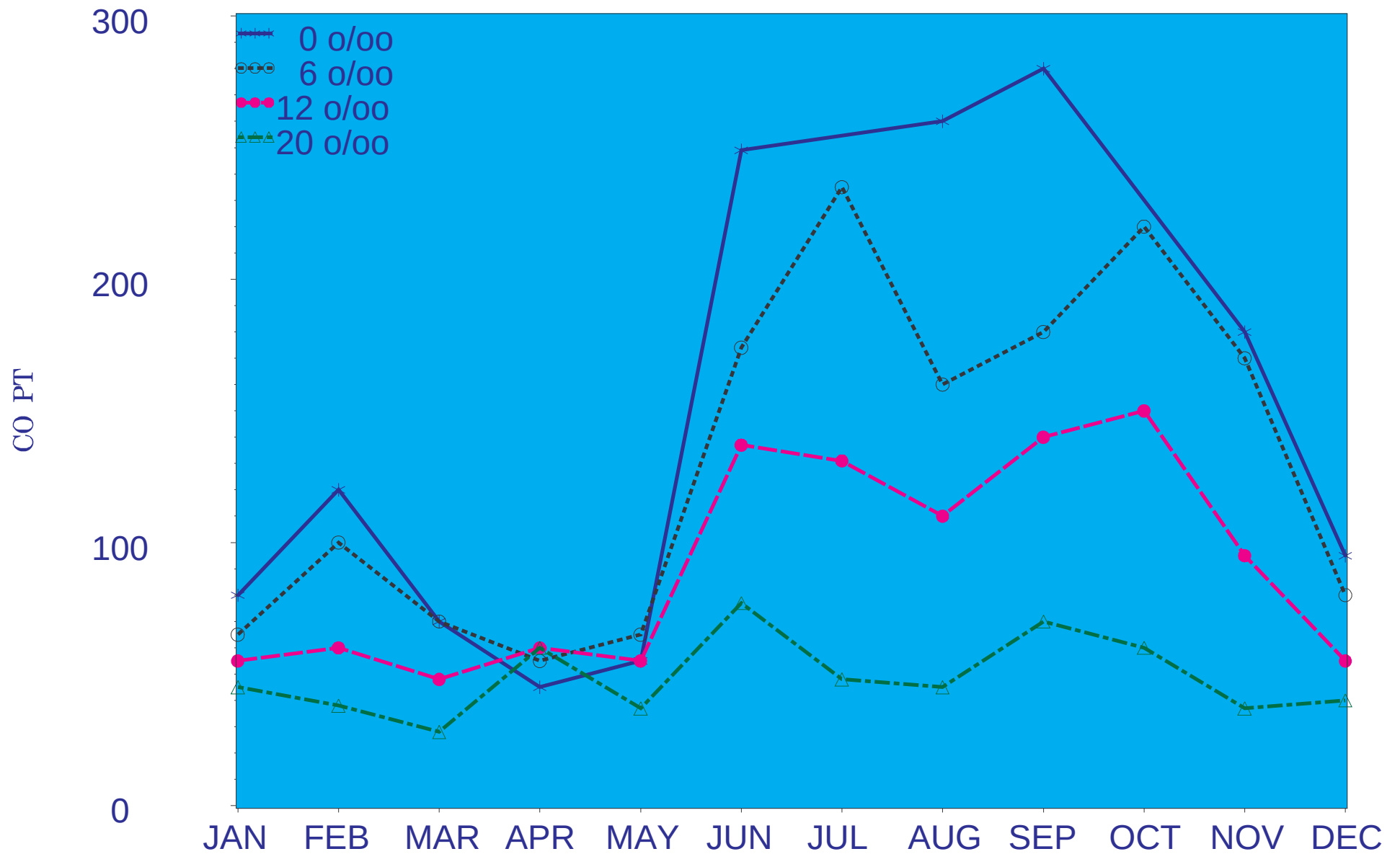


Figure 3.4 1999 Color at salinity sampling zones.

# HBMP 1999 Extinction Coefficient

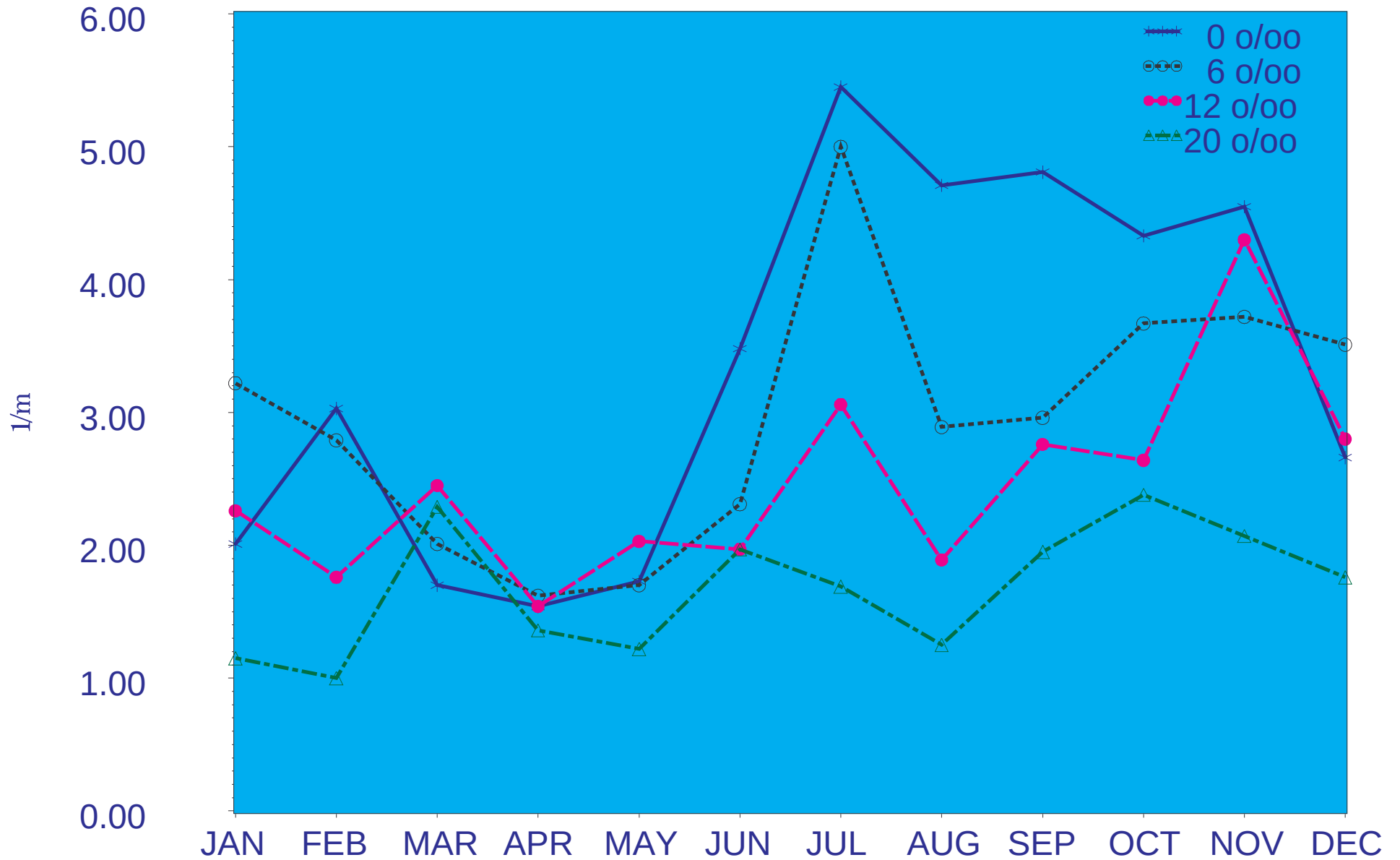


Figure 3.5 1999 Extinction Coefficient at salinity sampling zones.

HBMP 1999  
NO<sub>2</sub>-NO<sub>3</sub>

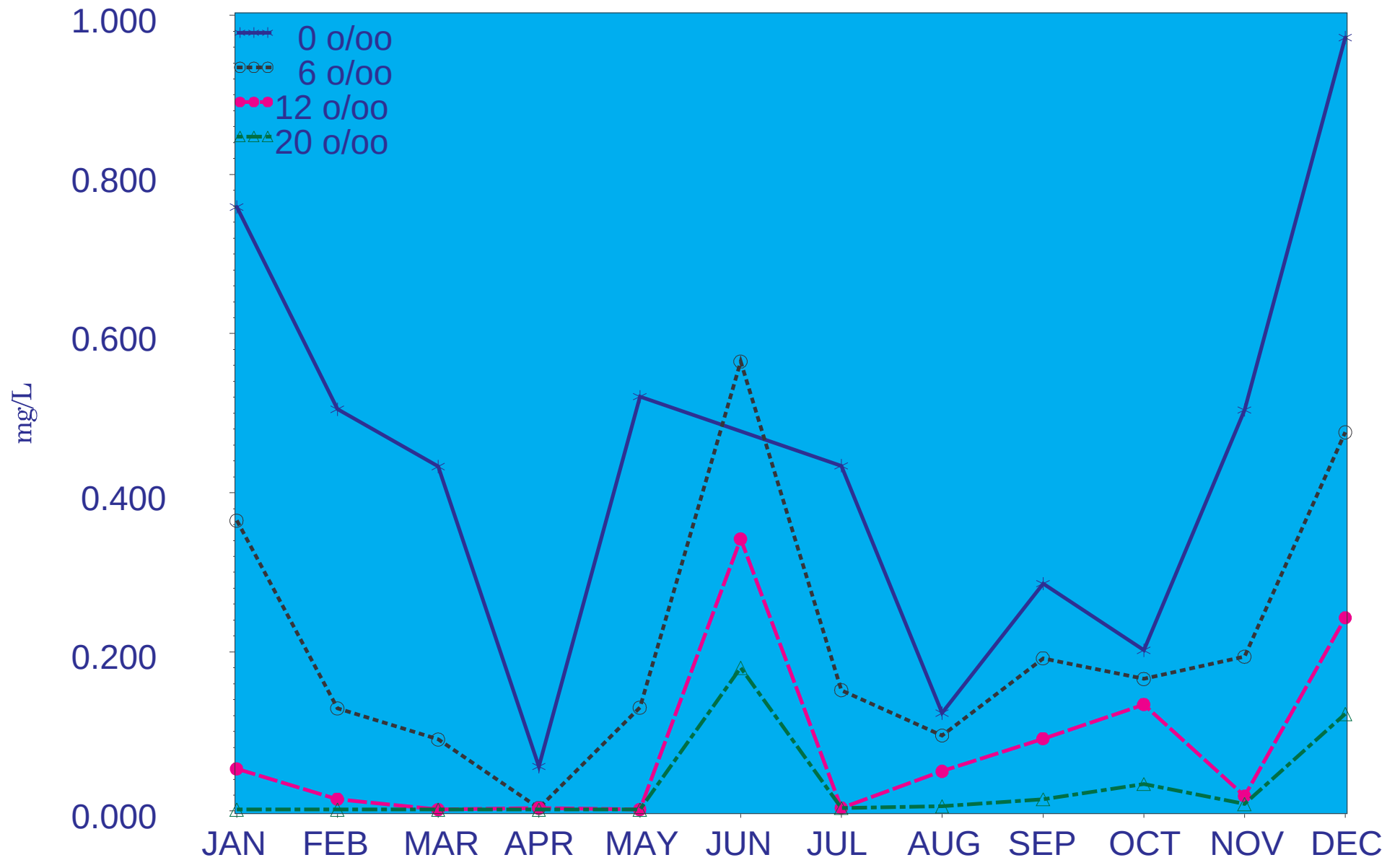


Figure 3.6 1999 Nitrite/Nitrate at salinity sampling zones.

HBMP 1999  
Ortho-Phosphorus

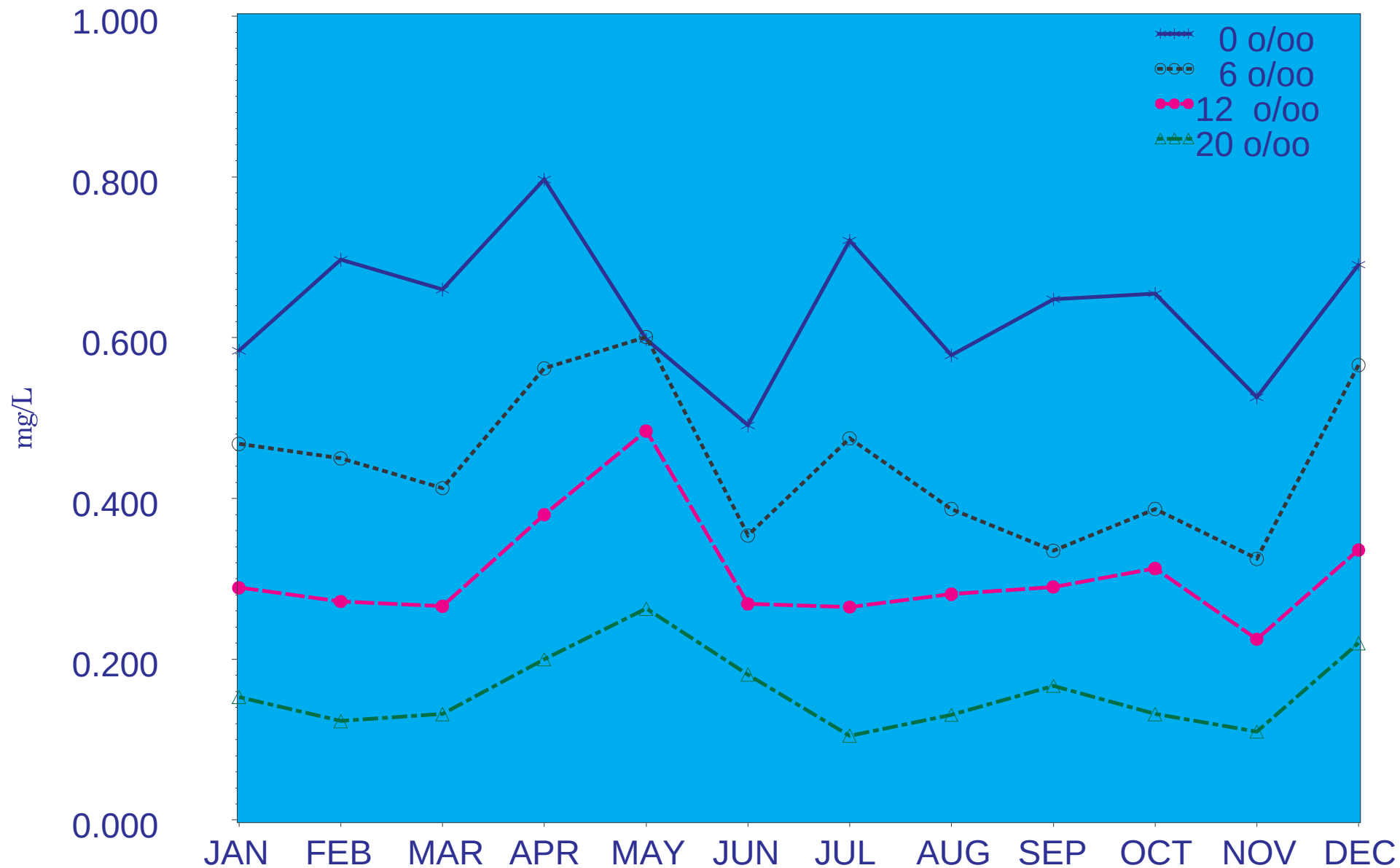


Figure 3.7 1999 Ortho-phosphorus at salinity sampling zones.

HBMP 1999  
Atomic Nitrogen/Phosphorus Ratio

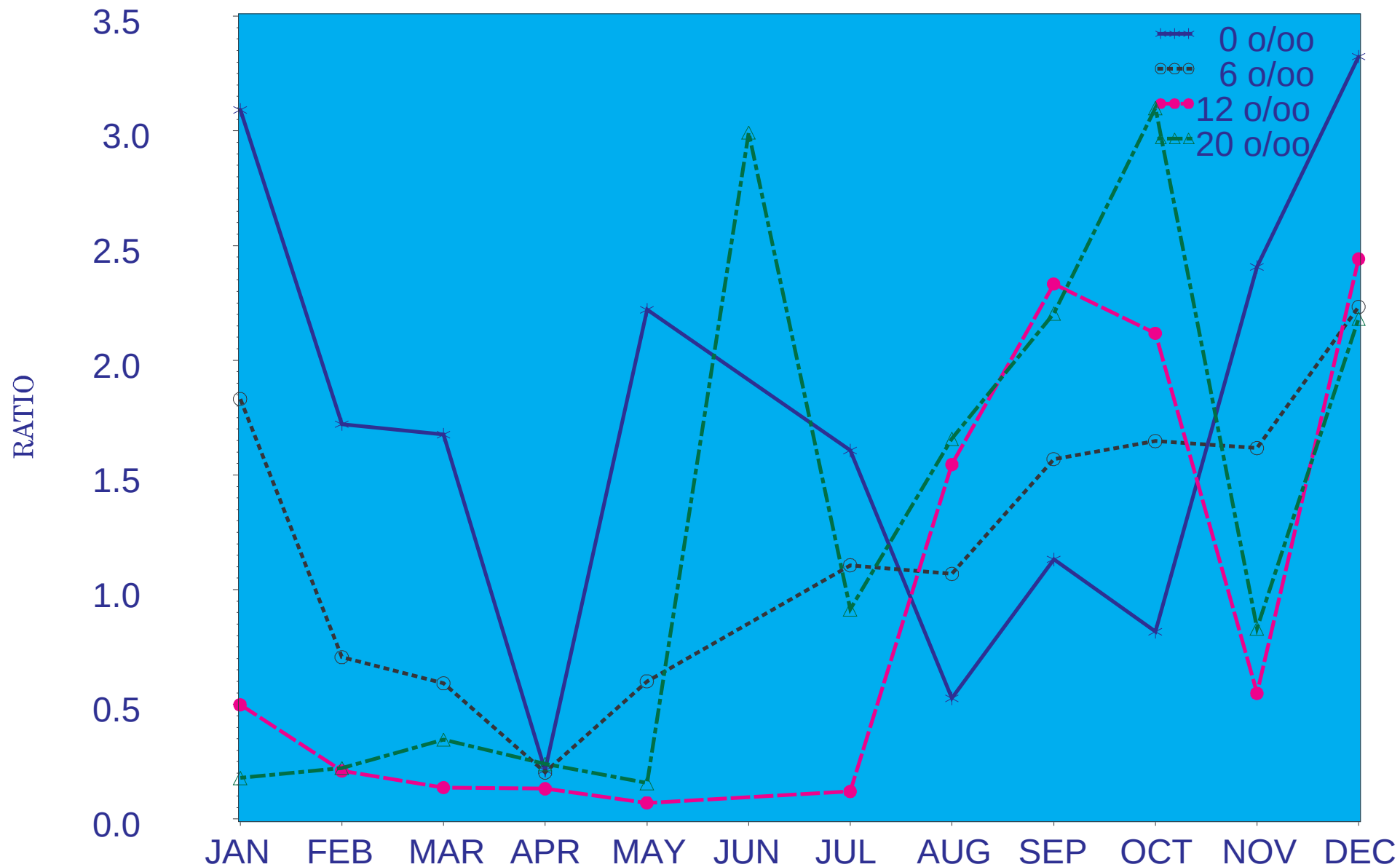


Figure 3.8 1999 Atomic N/P Ratio at salinity sampling zones.

# HBMP 1999 Silica

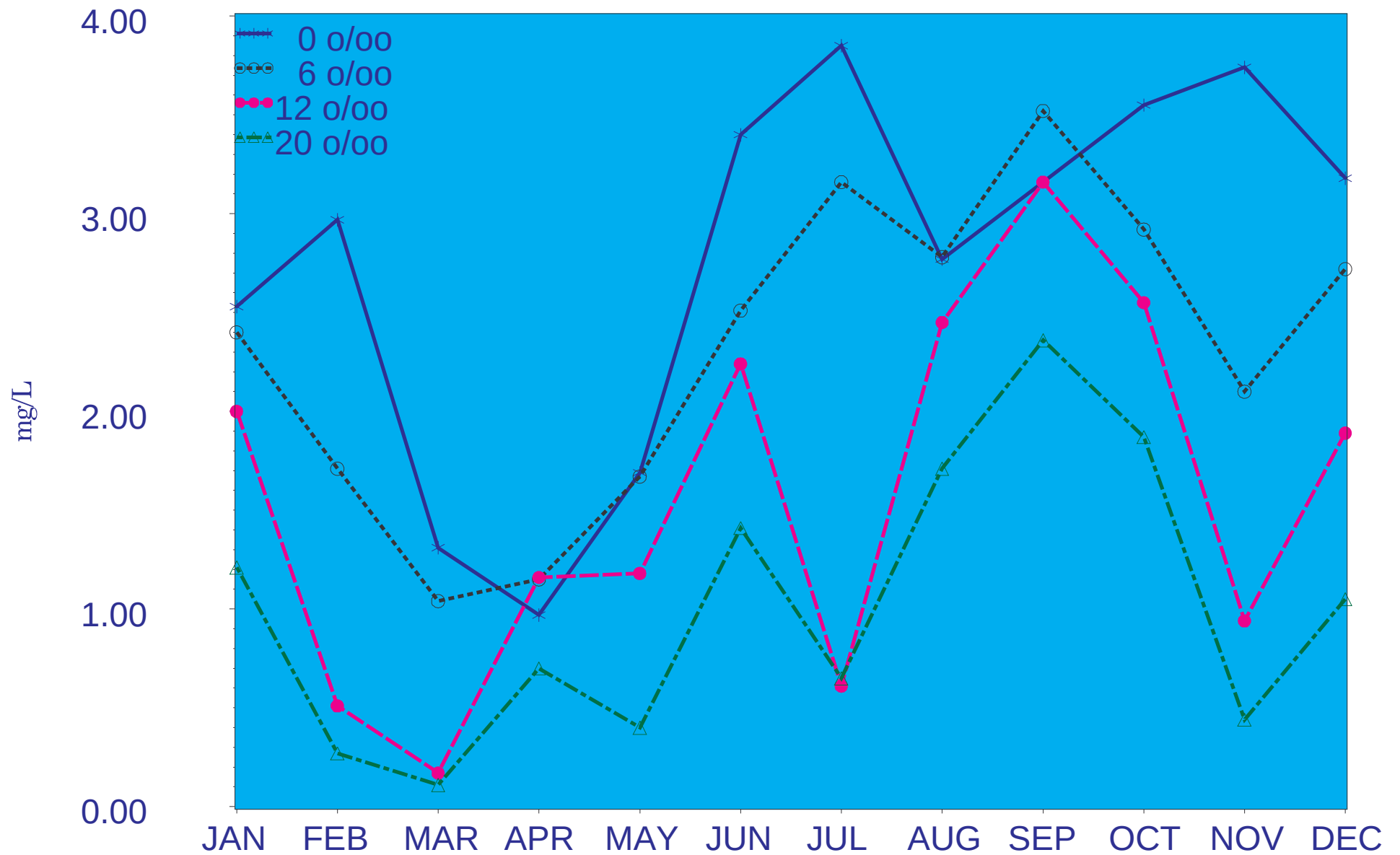


Figure 3.9 1999 Silica at salinity sampling zones.

# HBMP 1999 Carbon Uptake

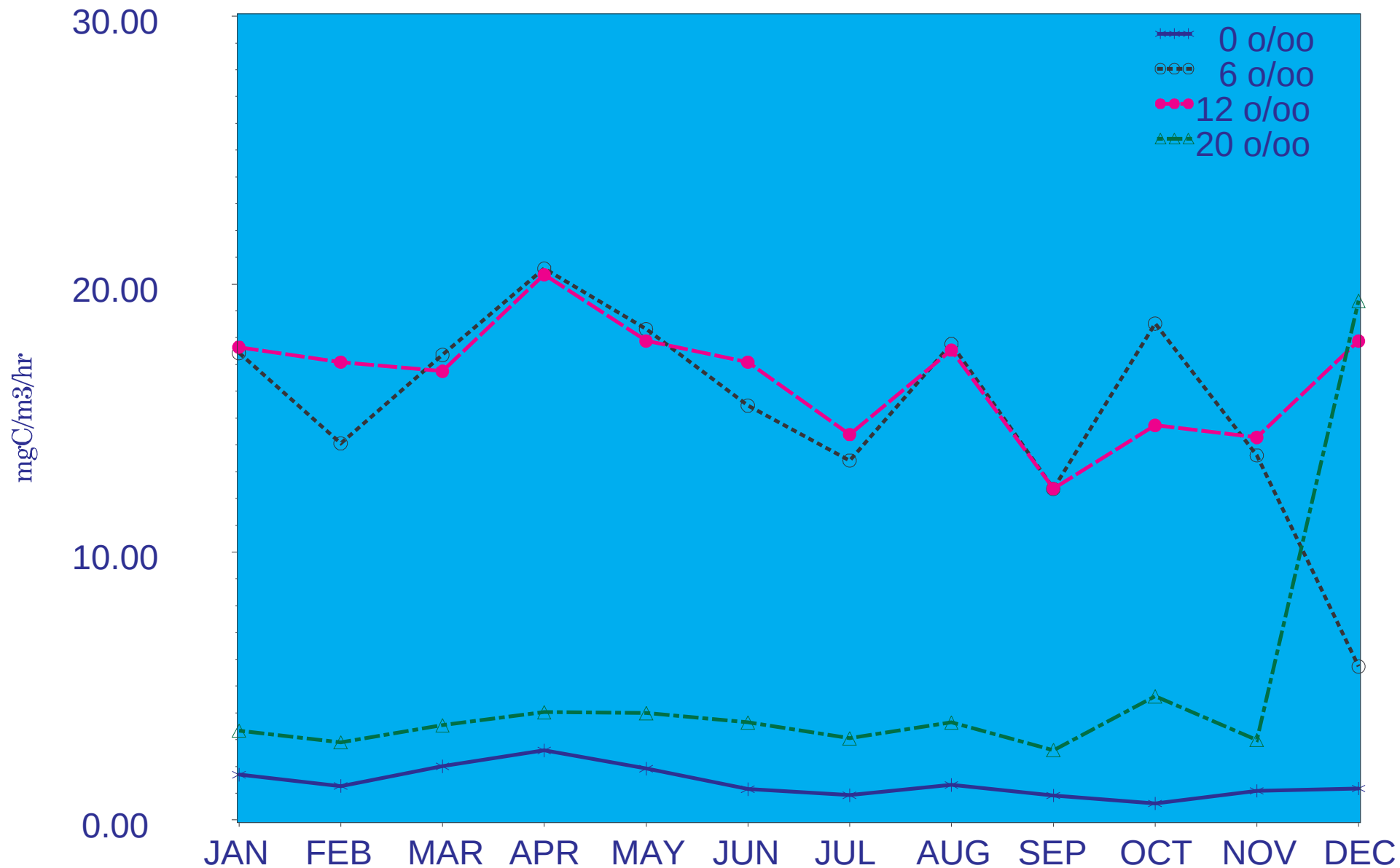


Figure 3.10 1999 Carbon Uptake (mgC/m<sup>3</sup>/hr) at salinity sampling zones.

# HBMP 1999 Carbon Uptake

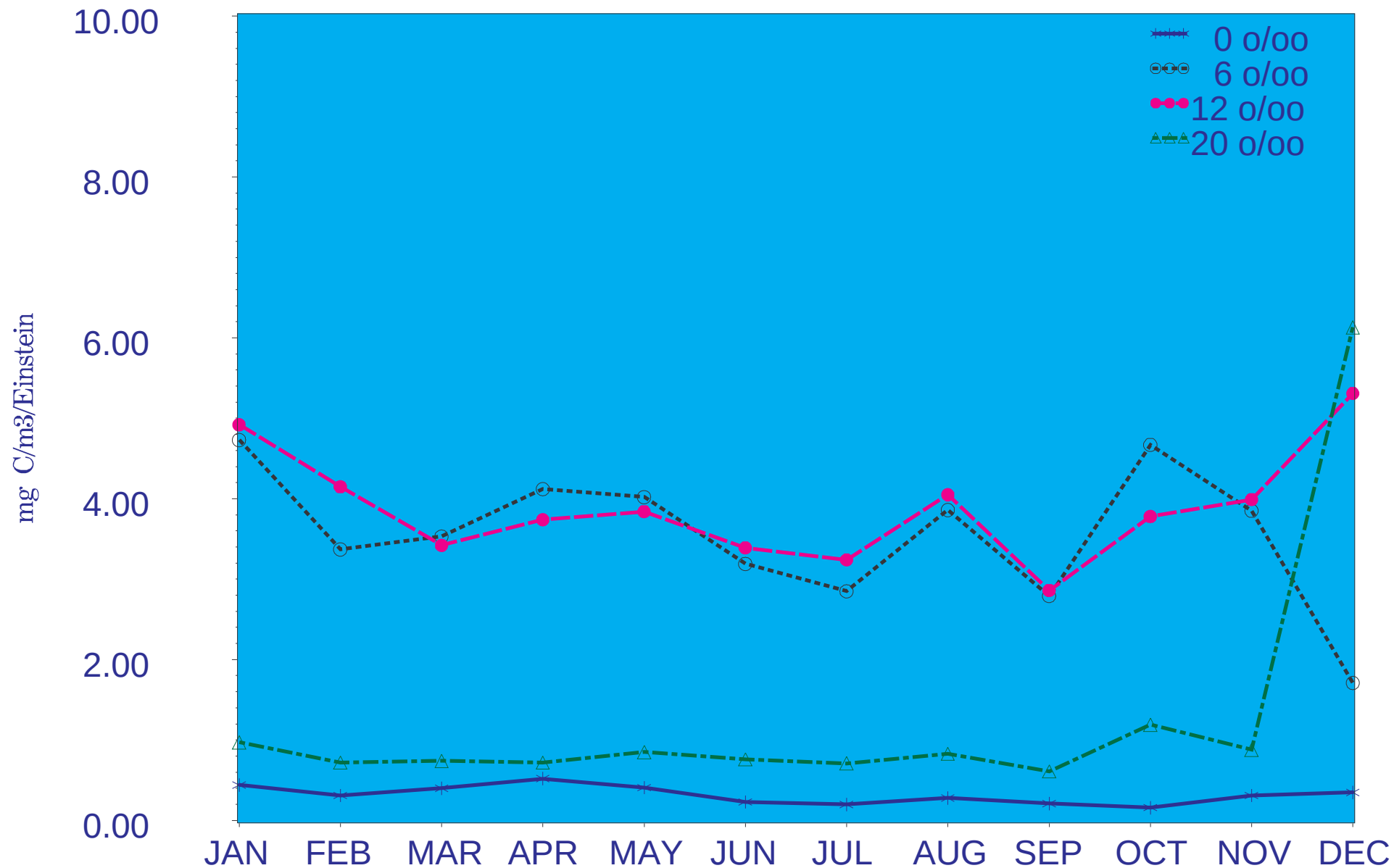


Figure 3.11 1999 Carbon Uptake (mgC/m<sup>3</sup>/Einstein) at salinity sampling zones.



HBMP 1999  
Chlorophyll a

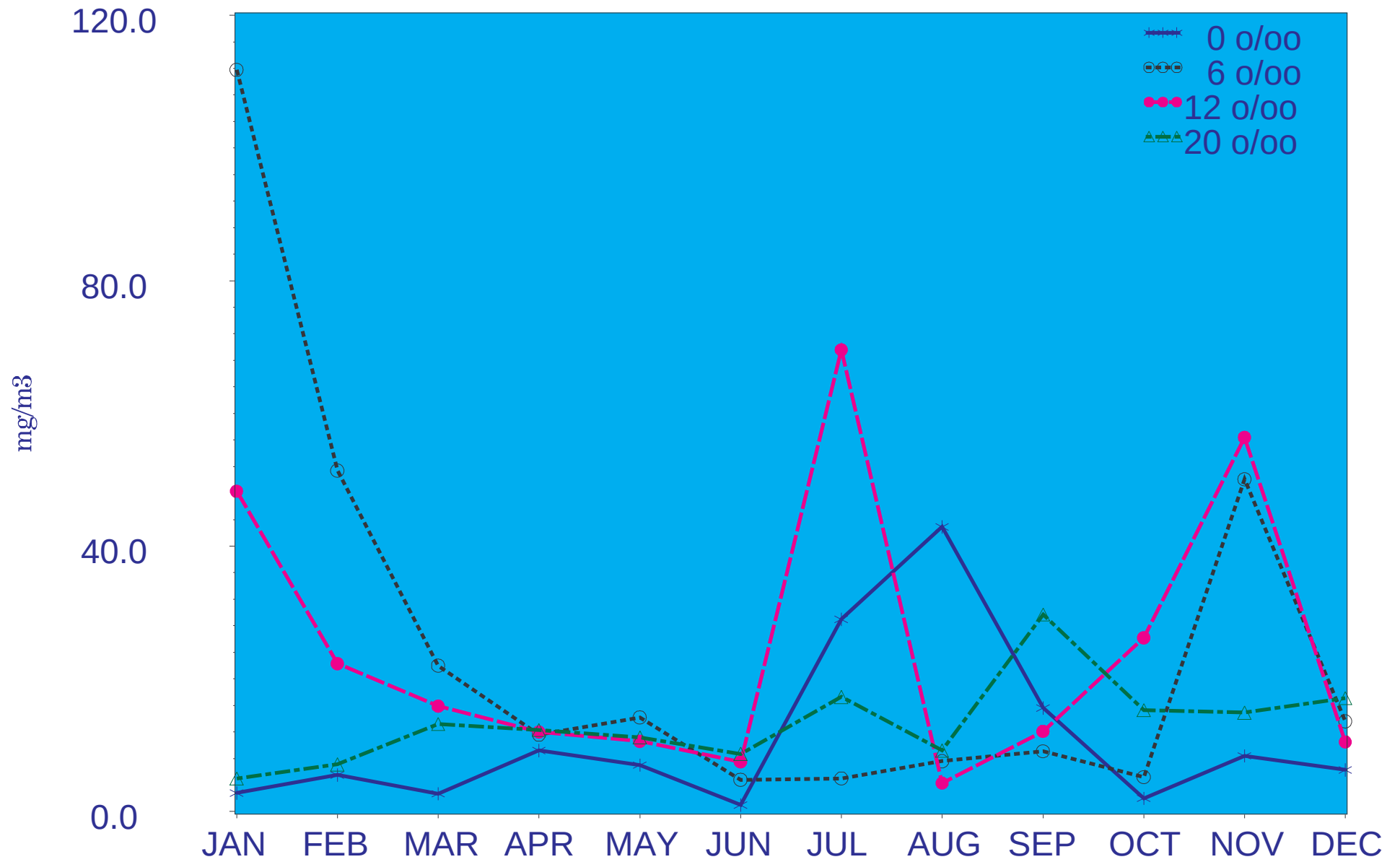


Figure 3.12 1999 Chlorophyll a (mg/m<sup>3</sup>) at salinity sampling zones.

# HBMP 1999 Percent Carbon Uptake Among Size Fractions

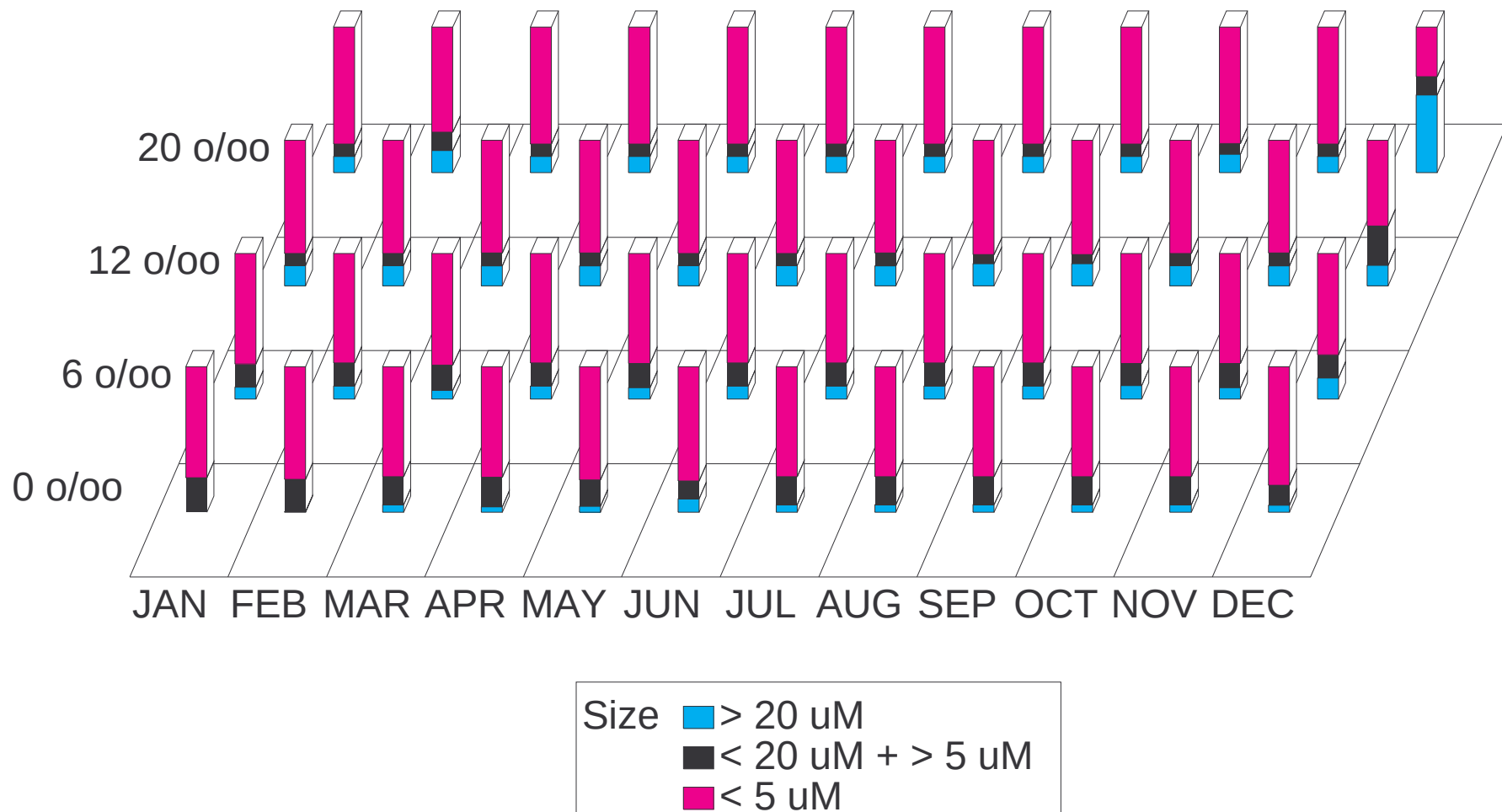
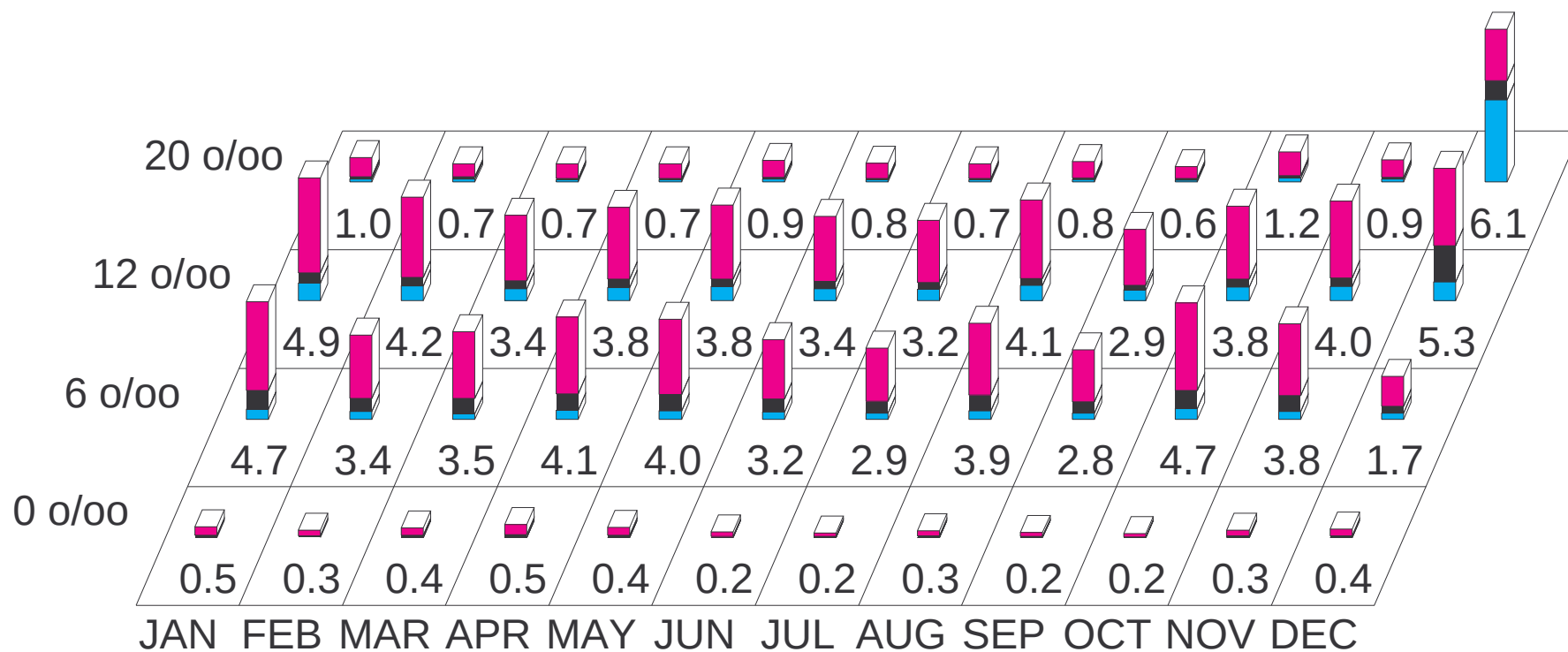


Figure 3.13 Percent Carbon Uptake Among Size Fractions

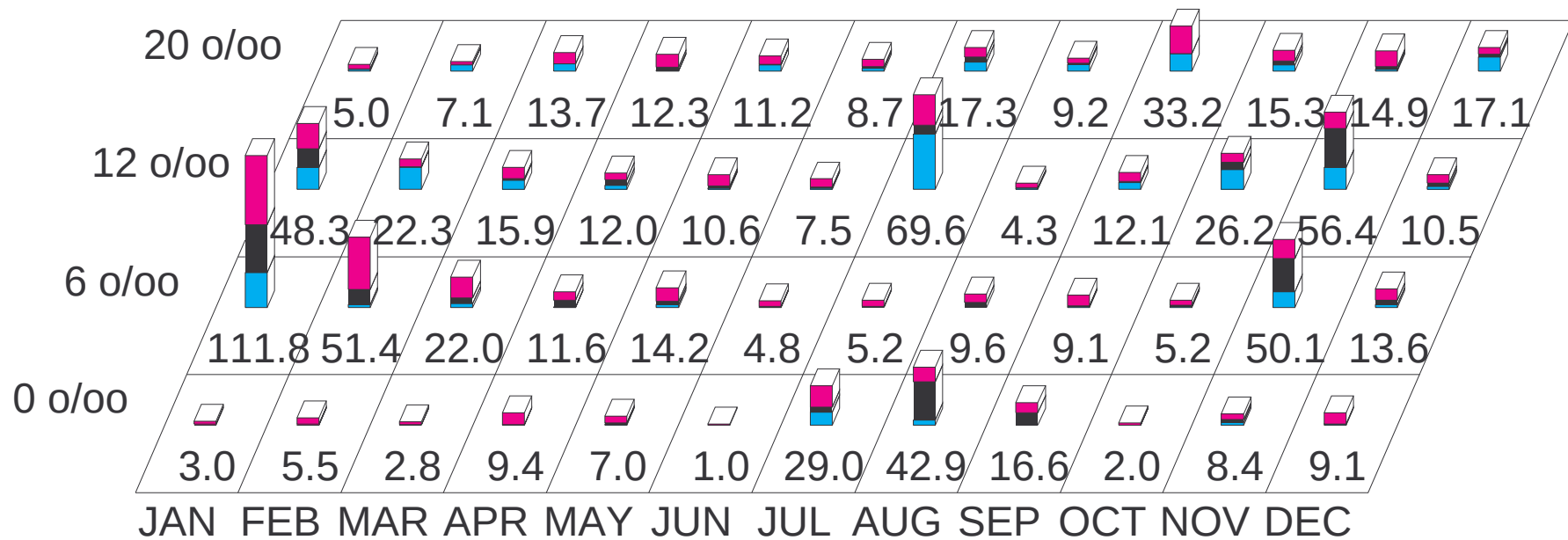
# HBMP 1999 Carbon Uptake (mgC/m3/Einstein)



Size  
■ > 20 UM  
■ < 20 UM + > 5 UM  
■ < 5 UM

Figure 3.14 Carbon Uptake (mgC/m3/Einstein) Among Size Fractions

# HBMP 1999 Chlorophyll a (mg/m3)



Size

- > 20 uM
- < 20 uM + > 5 uM
- < 5 uM

Figure 3.15 Chlorophyll a (mg/m3) Among Size Fractions

HBMP 1999  
Percent Chlorophyll a Among Size Fractions

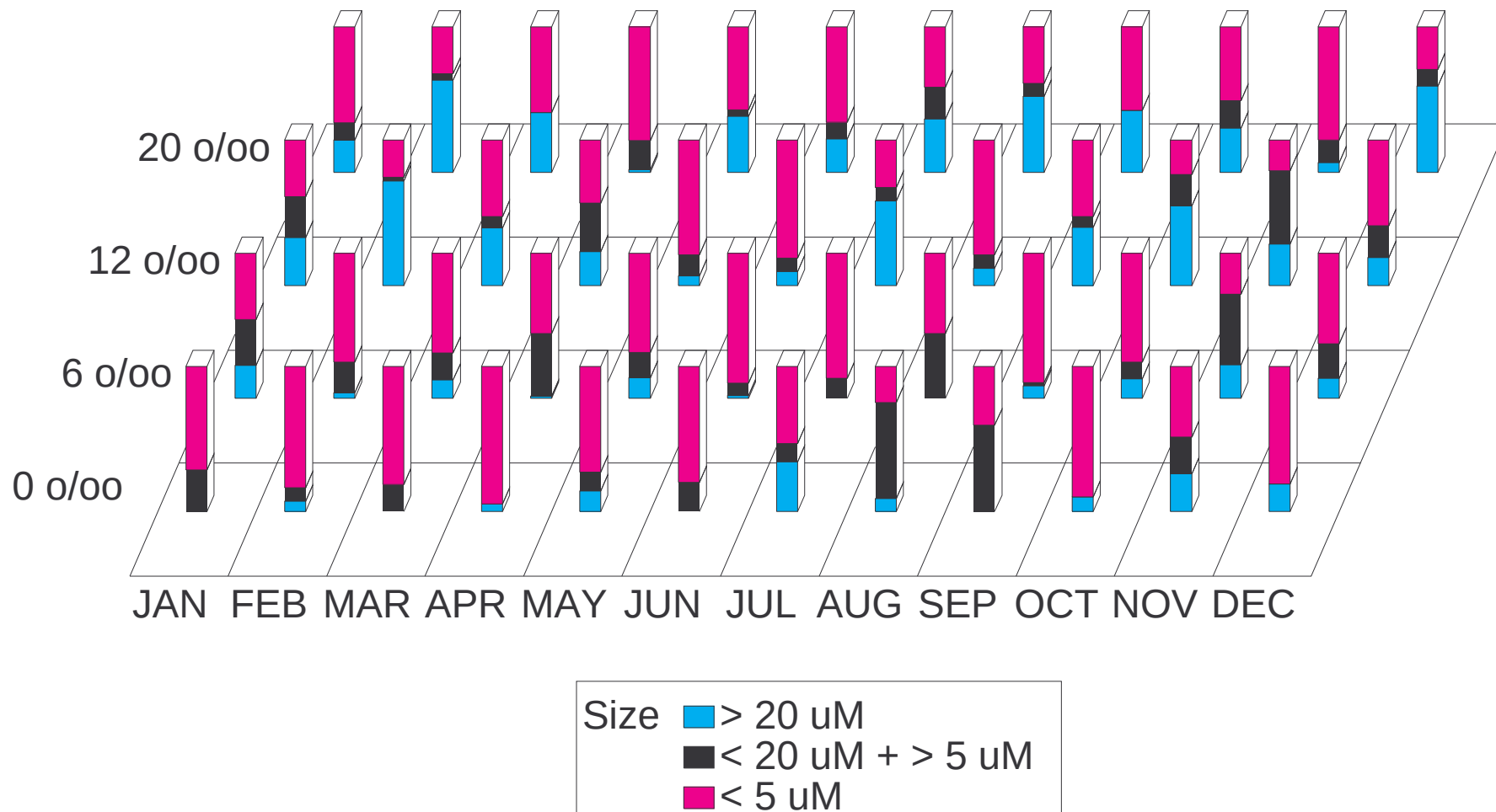


Figure 3.16 Percent Chlorophyll a Among Size Fractions

# HBMP 1983-1999 Temperature

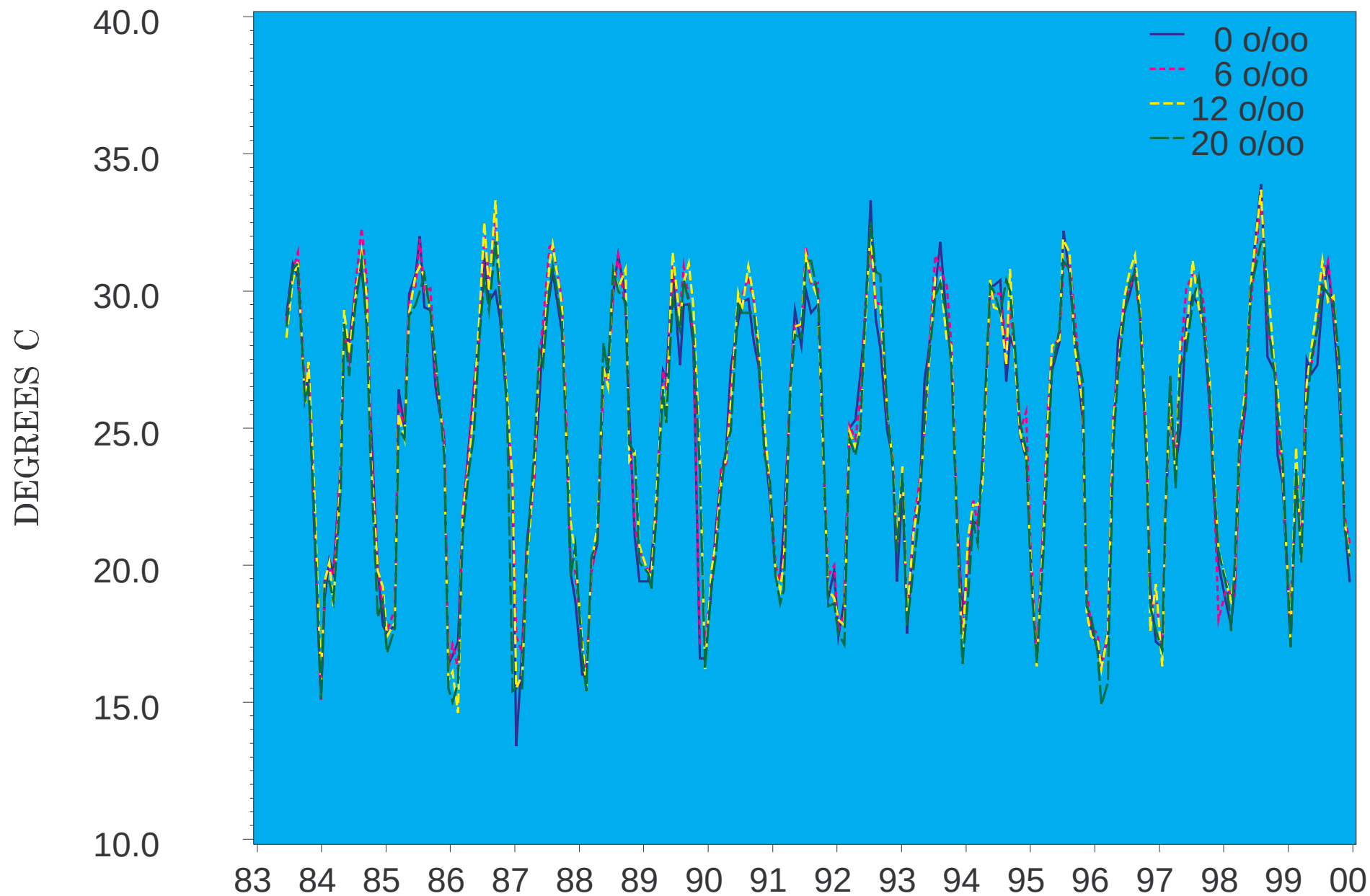


Figure 3.17 1983-1999 Temperature at salinity sampling zones.

# HBMP 1983-1999 Color

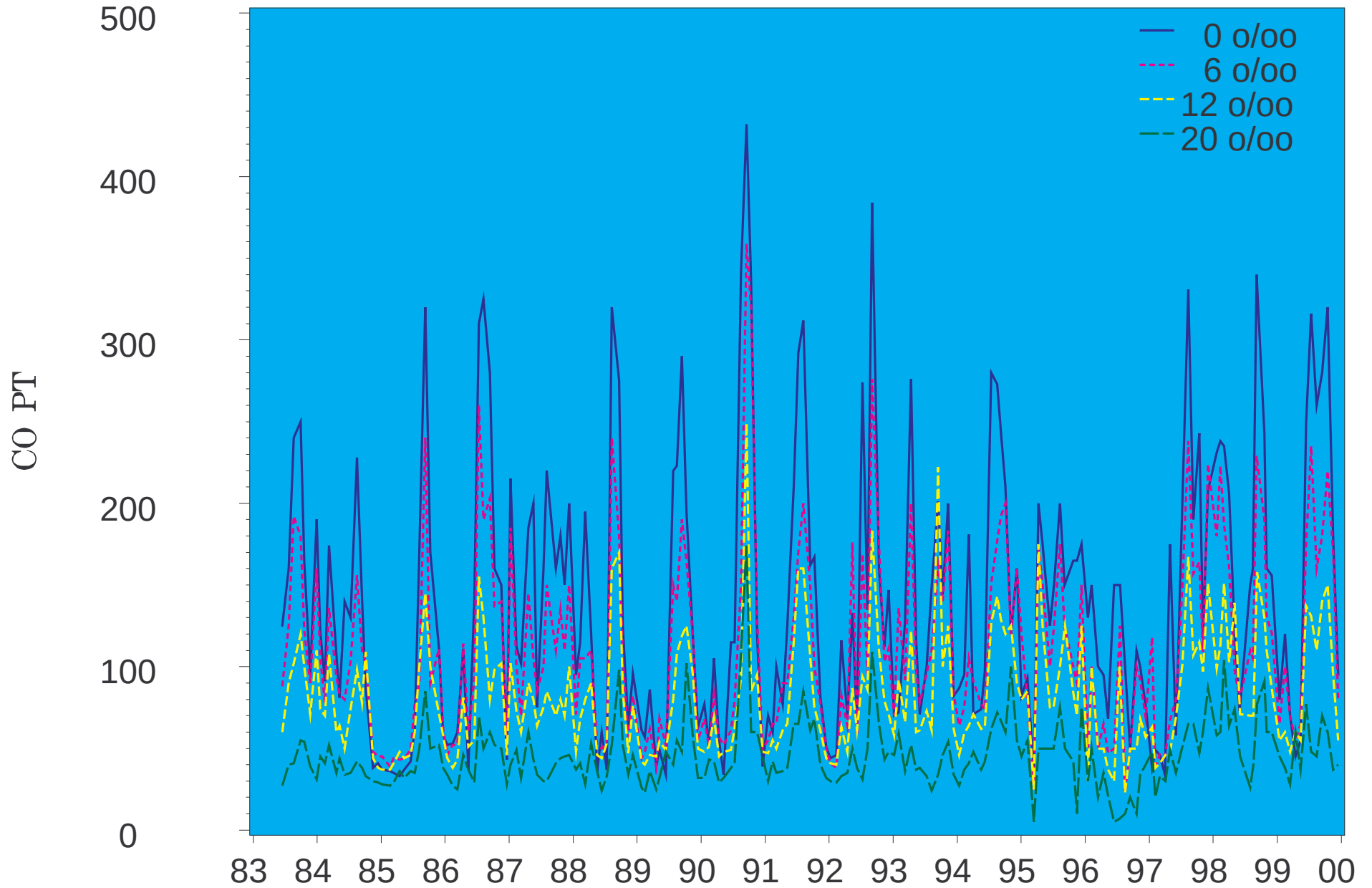


Figure 3.18 1983-1999 Color at salinity sampling zones.

HBMP 1983-1999  
Extinction Coefficient

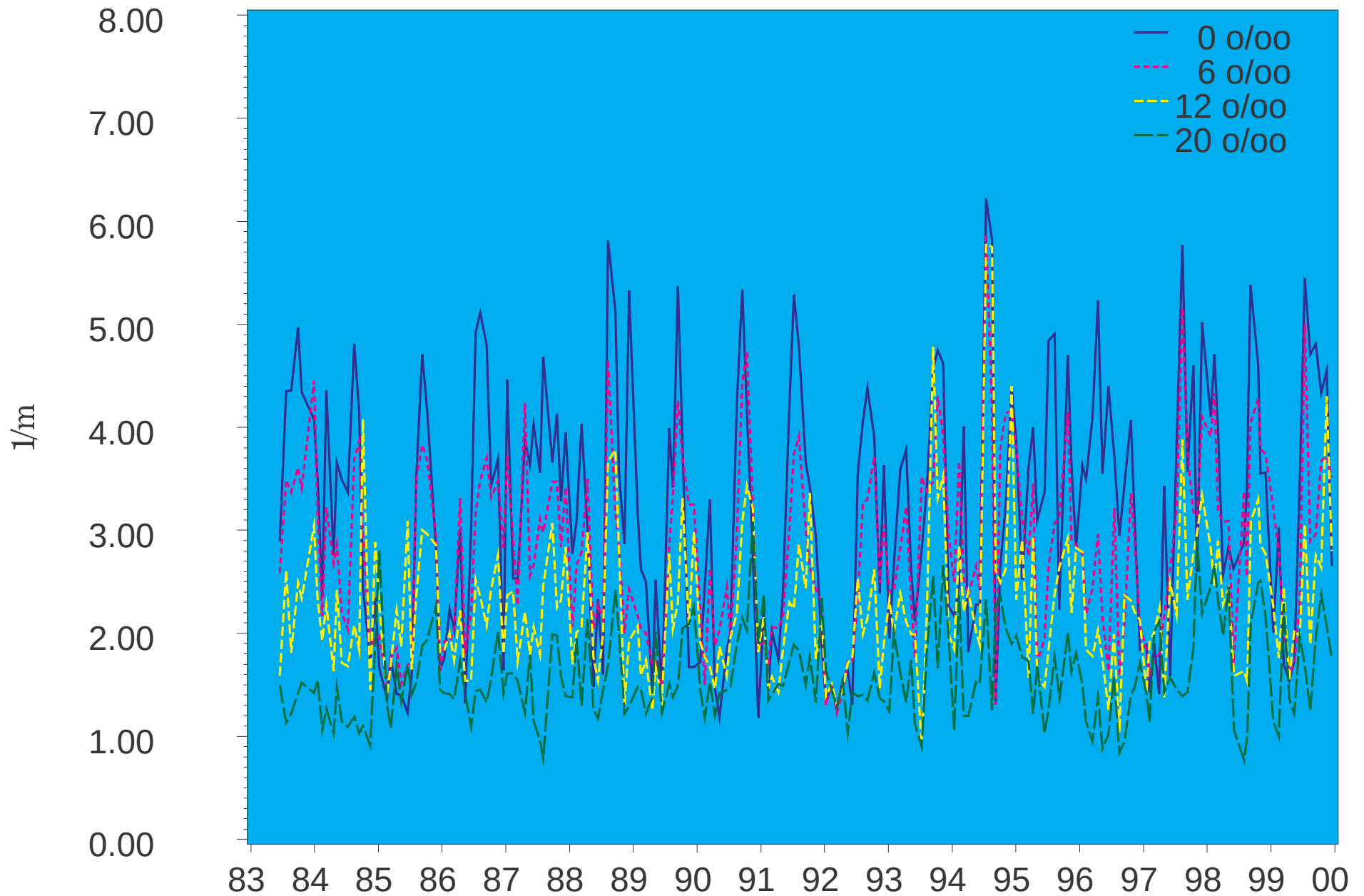


Figure 3.19 1983-1999 Extinction Coefficient at salinity sampling zones.



HBMP 1983-1999  
NO<sub>2</sub>-NO<sub>3</sub>

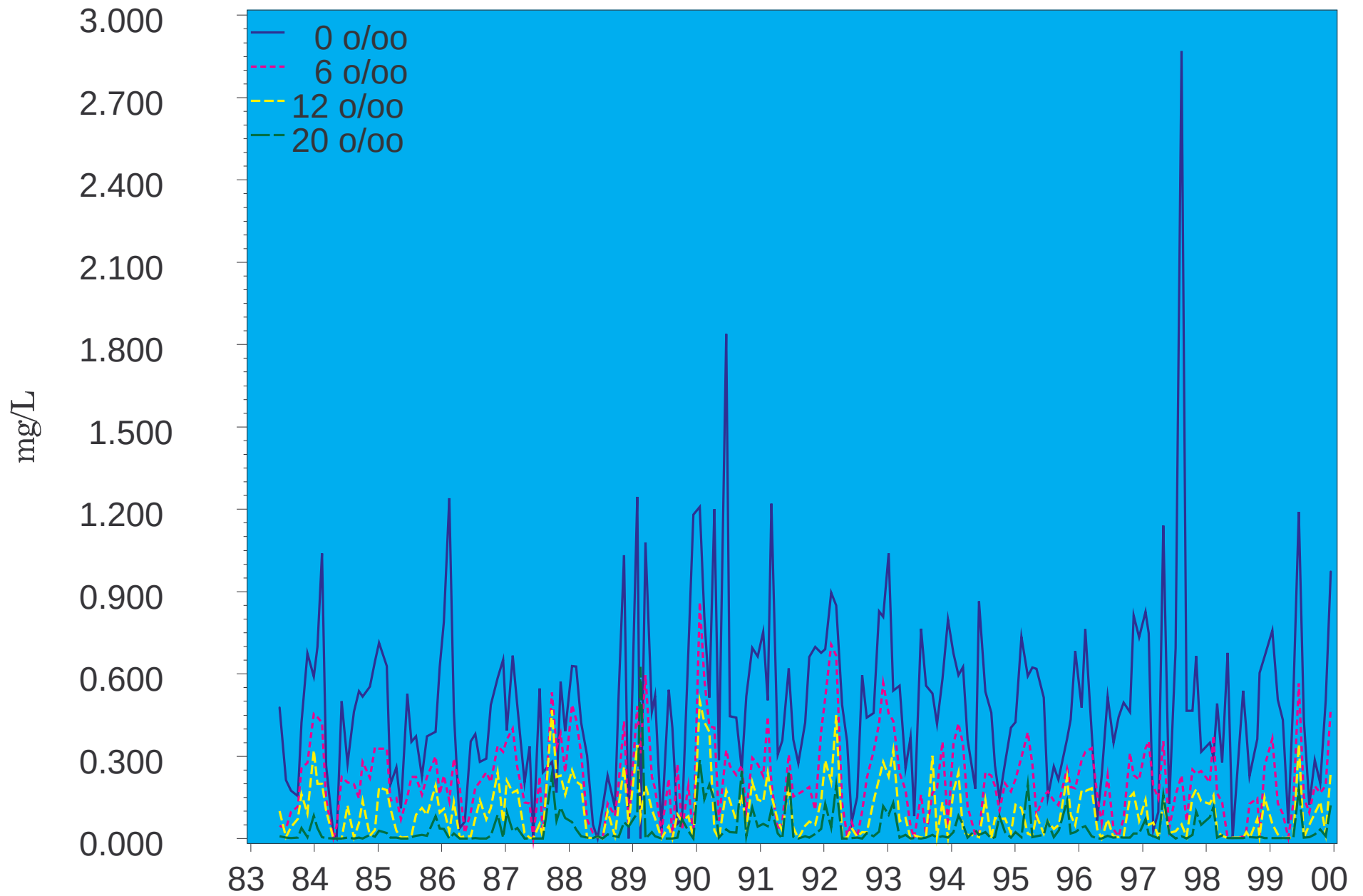


Figure 3.20 1983-1999 Nitrate/Nitrite at salinity sampling zones.

HBMP 1983-1999  
Ortho-Phosphorus

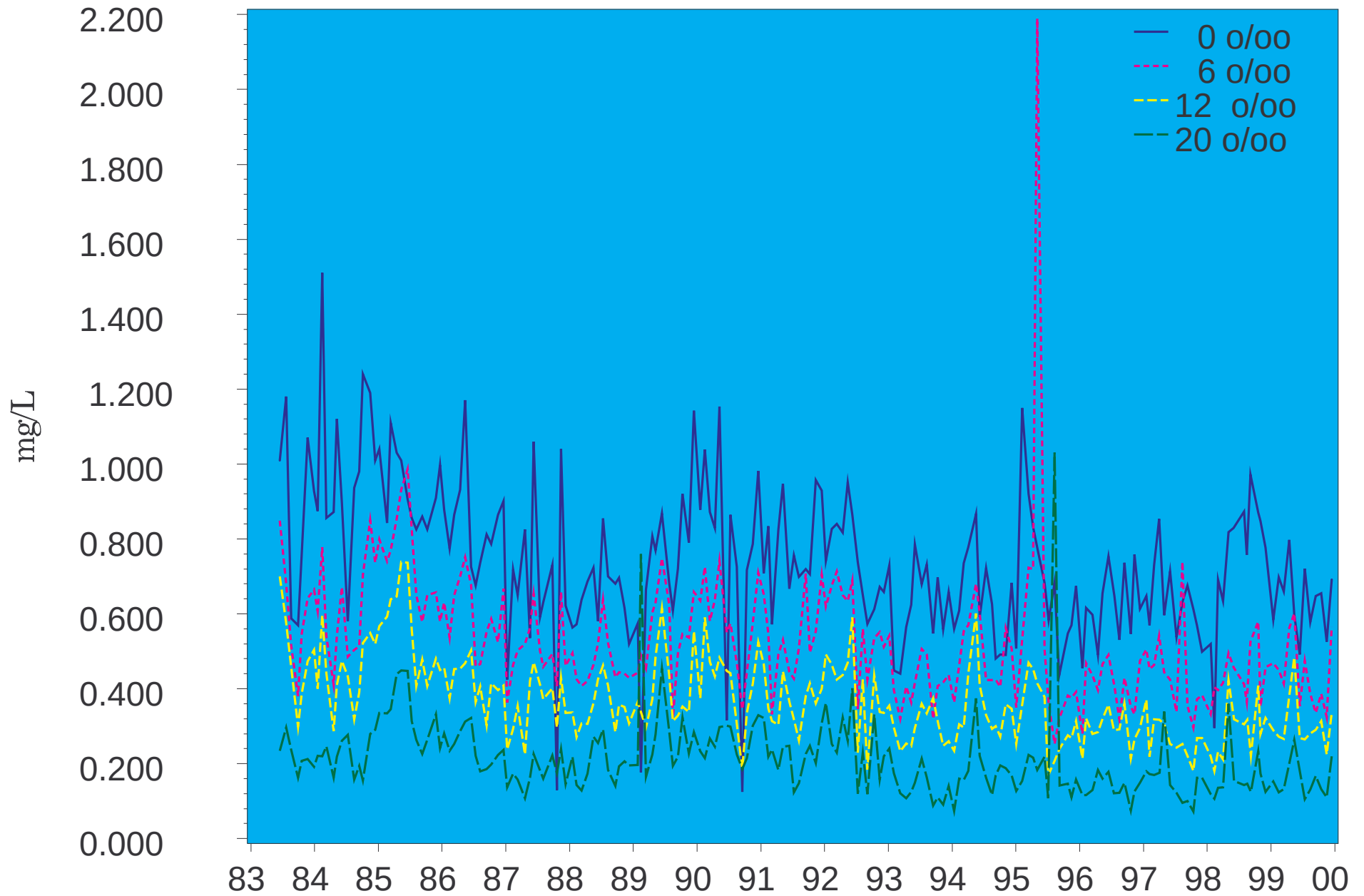


Figure 3.21 1983-1999 Ortho-Phosphorus at salinity sampling zones.

HBMP 1983-1999  
Atomic Nitrogen/Phosphorus Ratio

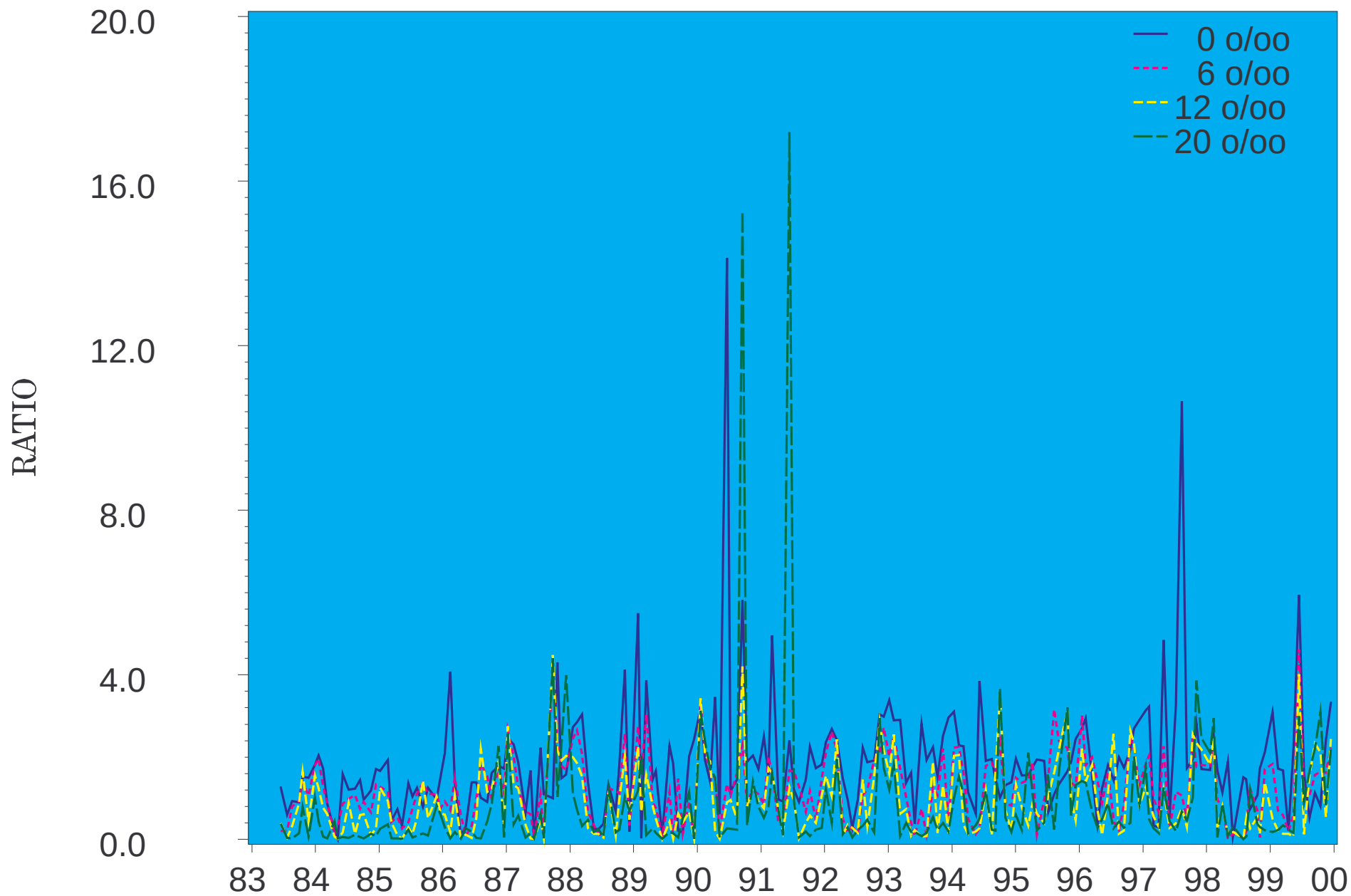


Figure 3.22 1983-1999 Atomic Nitrogen/Phosphorus Ratio at salinity sampling zones.

# HBMP 1983-1999 Silica

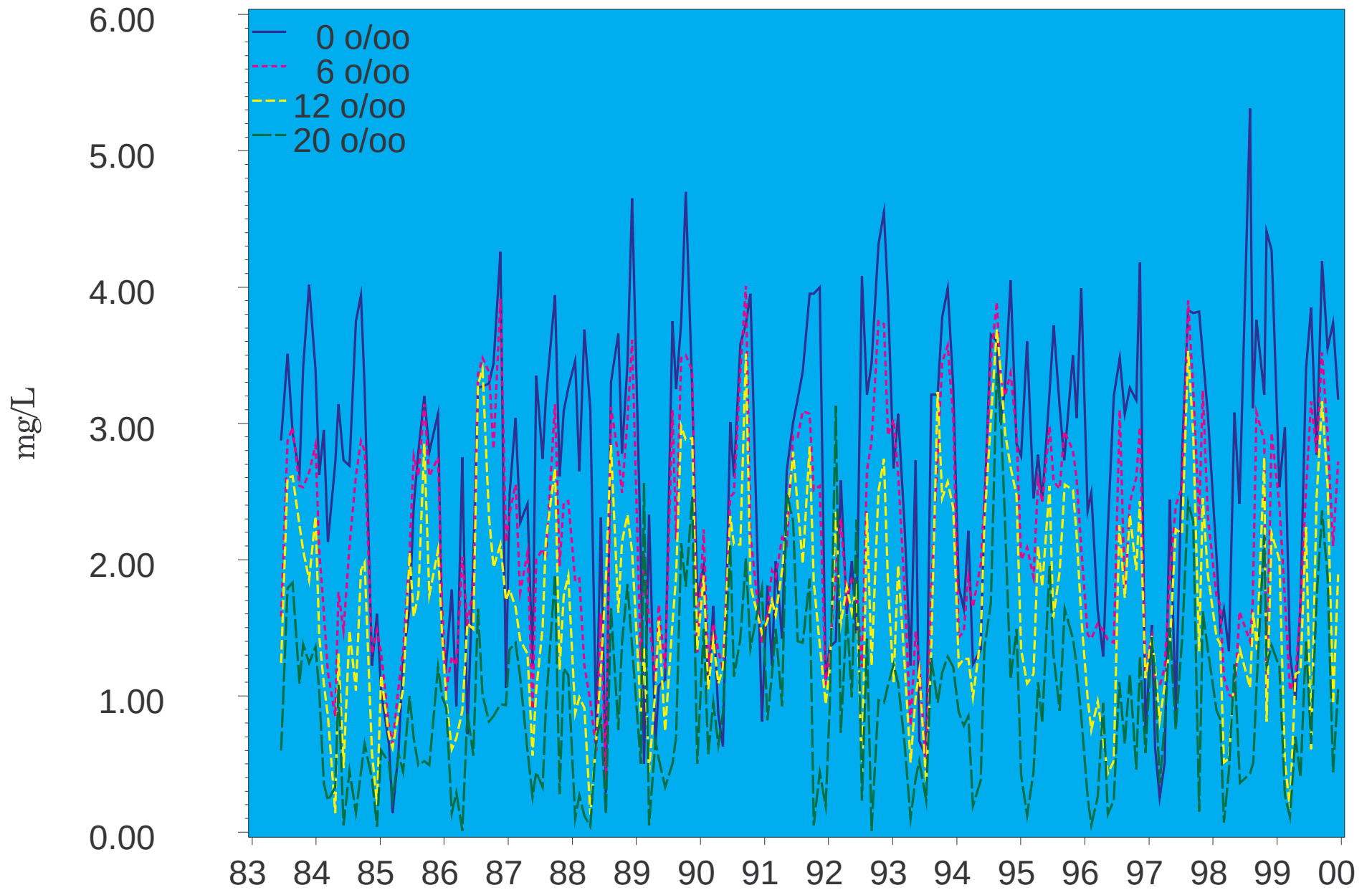


Figure 3.23 1983-1999 Silica at salinity sampling zones.

# HBMP 1983-1999 Carbon Uptake

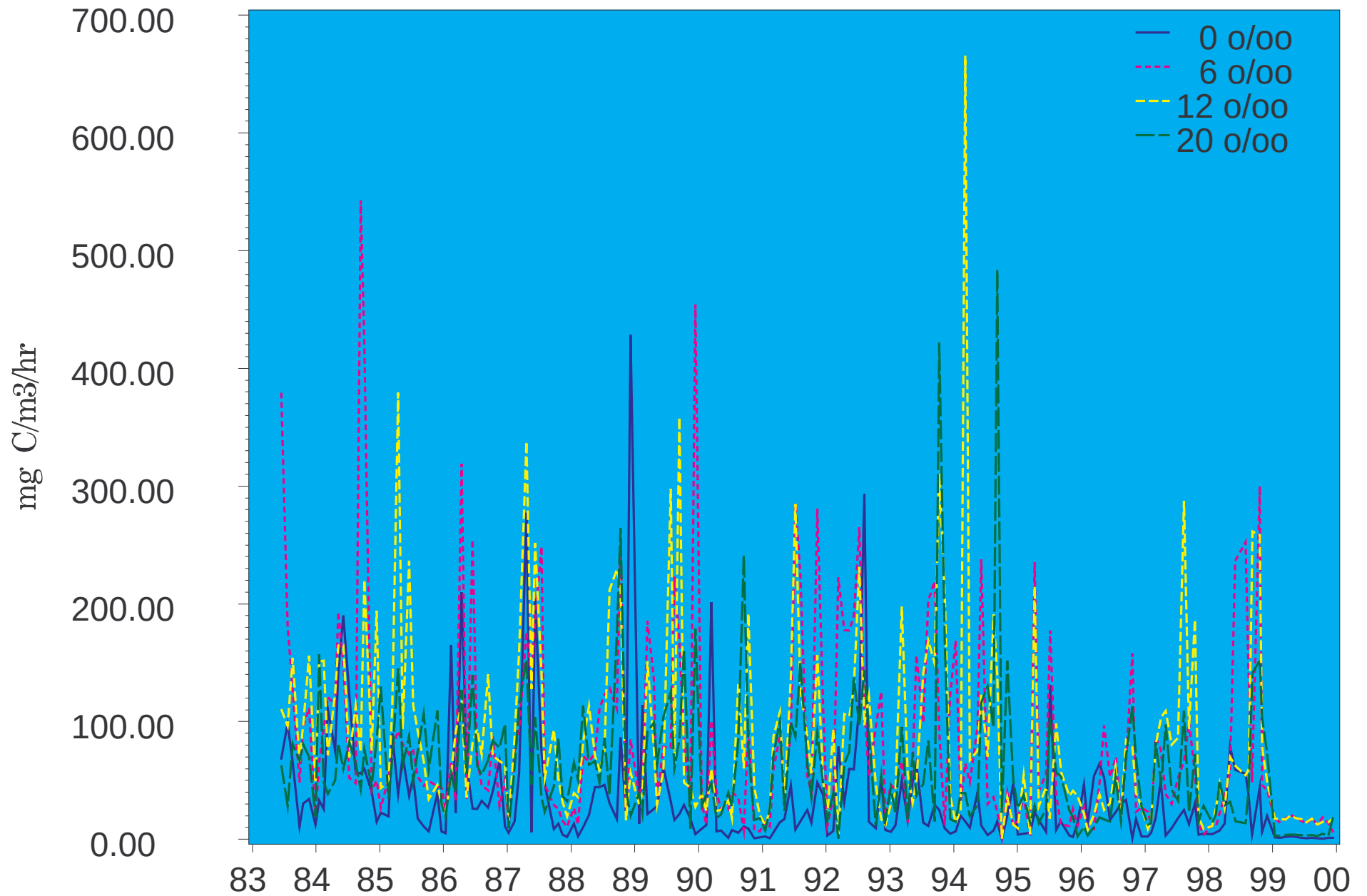


Figure 3.24 1983-1999 Carbon Uptake (mg C/m3/hr) at salinity sampling zones.

# HBMP 1983-1999 Carbon Uptake

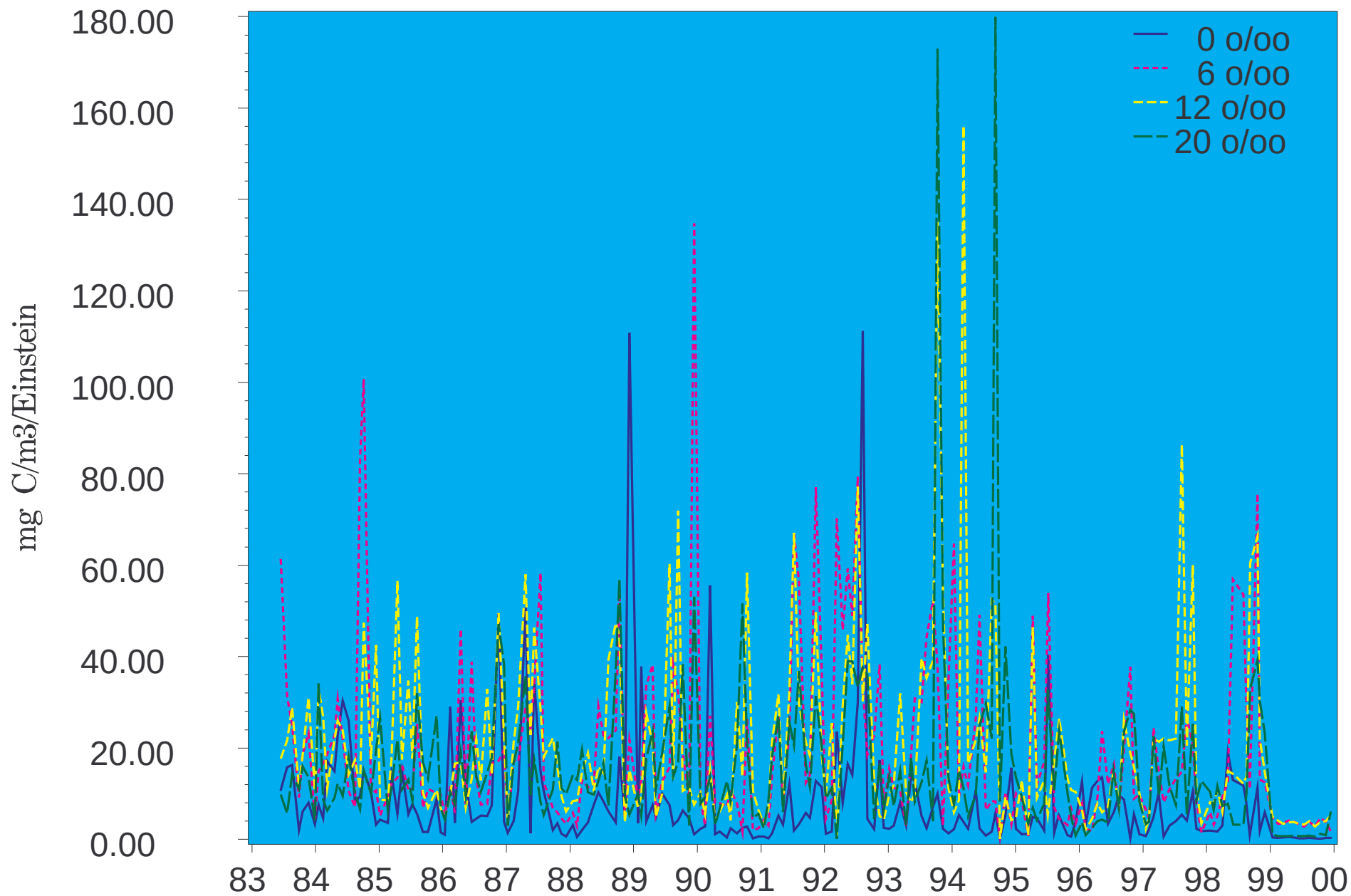


Figure 3.25 1983-1999 Carbon Uptake (mg C/m3/Einstein) at salinity sampling zones.

HBMP 1983-1999  
Chlorophyll a

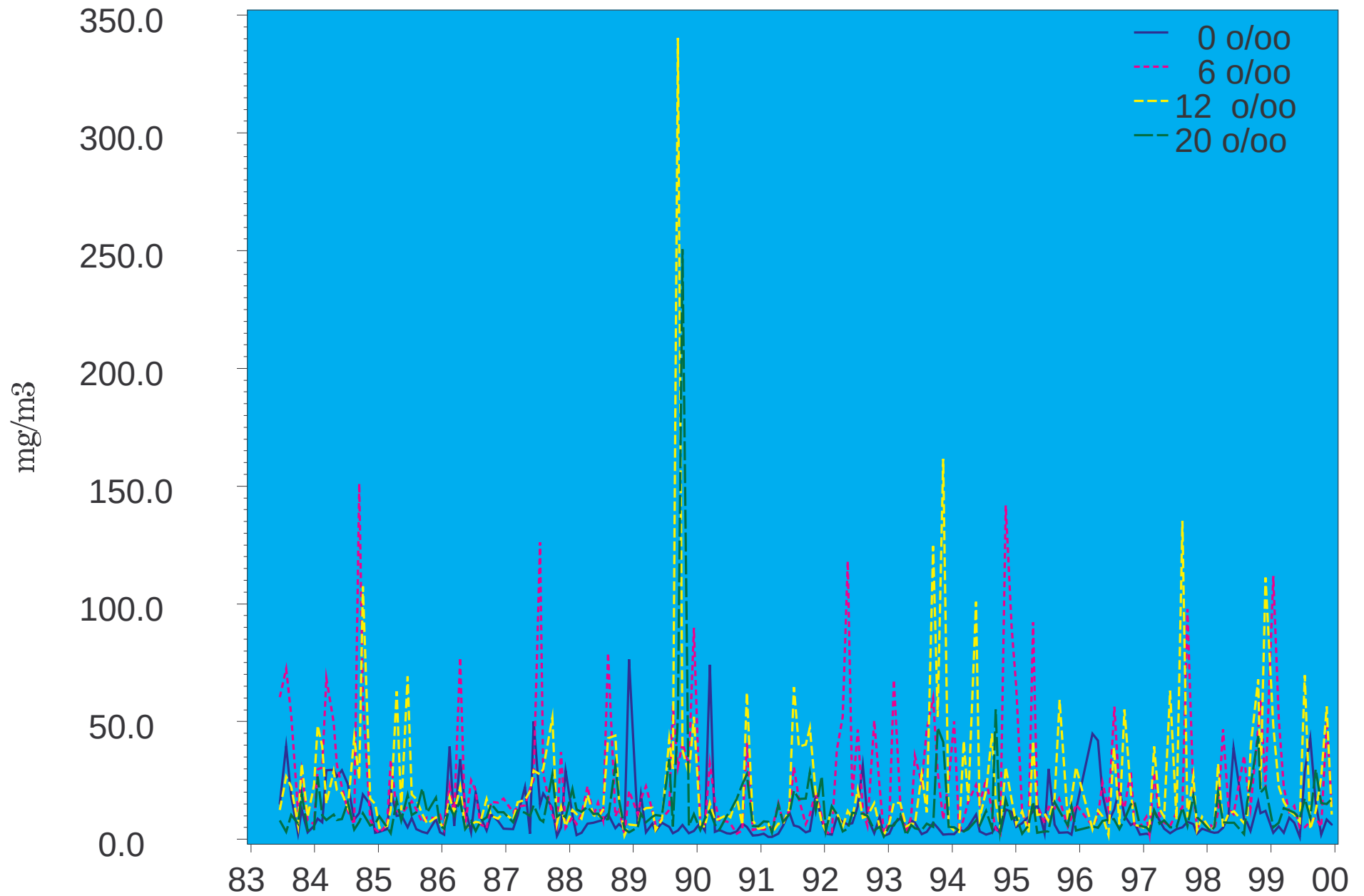


Figure 3.26 1983-1999 Chlorophyll a (mg/m<sup>3</sup>) at salinity sampling zones.

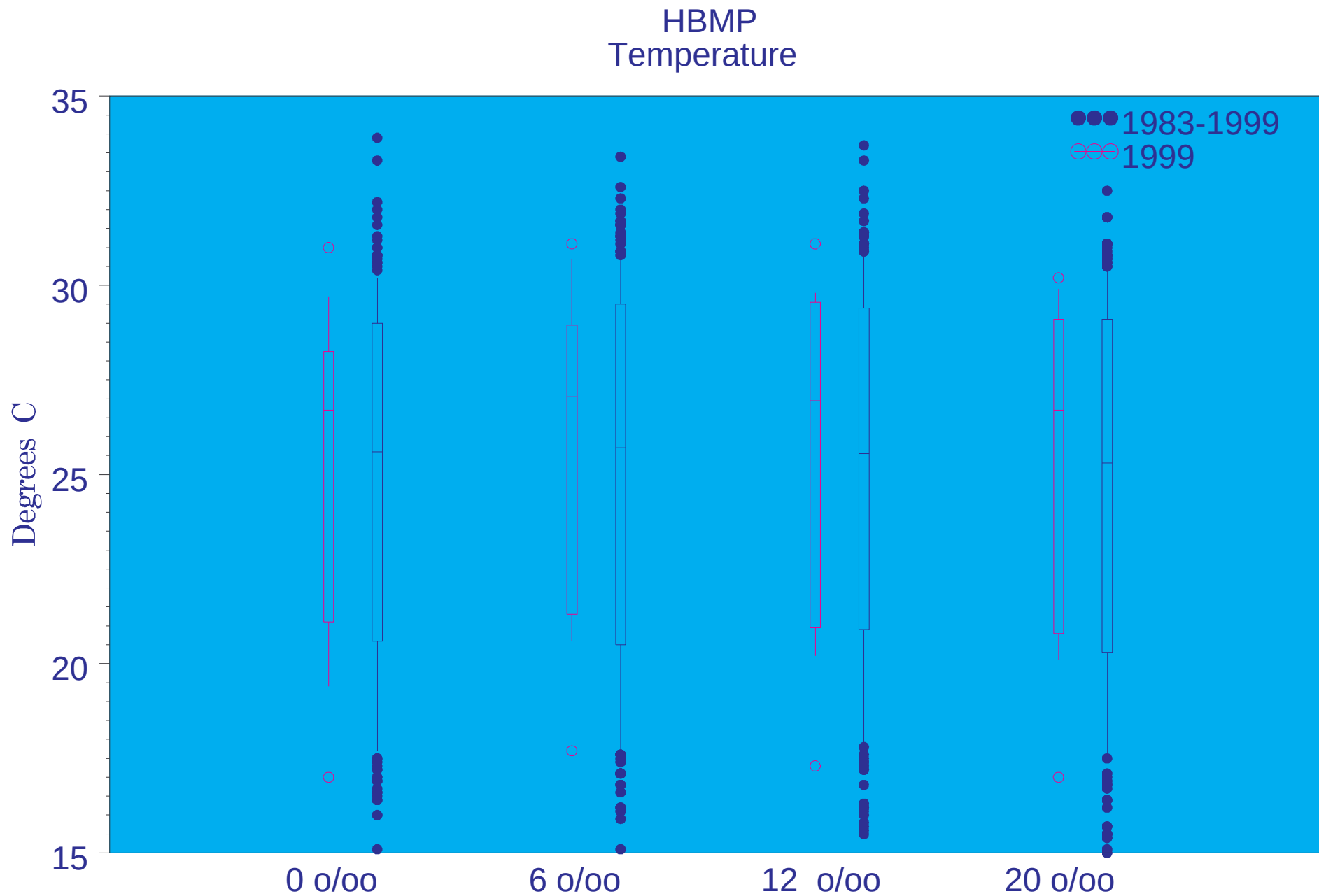


Figure 3.27 Box and Whisker Plots of Temperature at salinity sampling zones (1999) & (1983-1999).



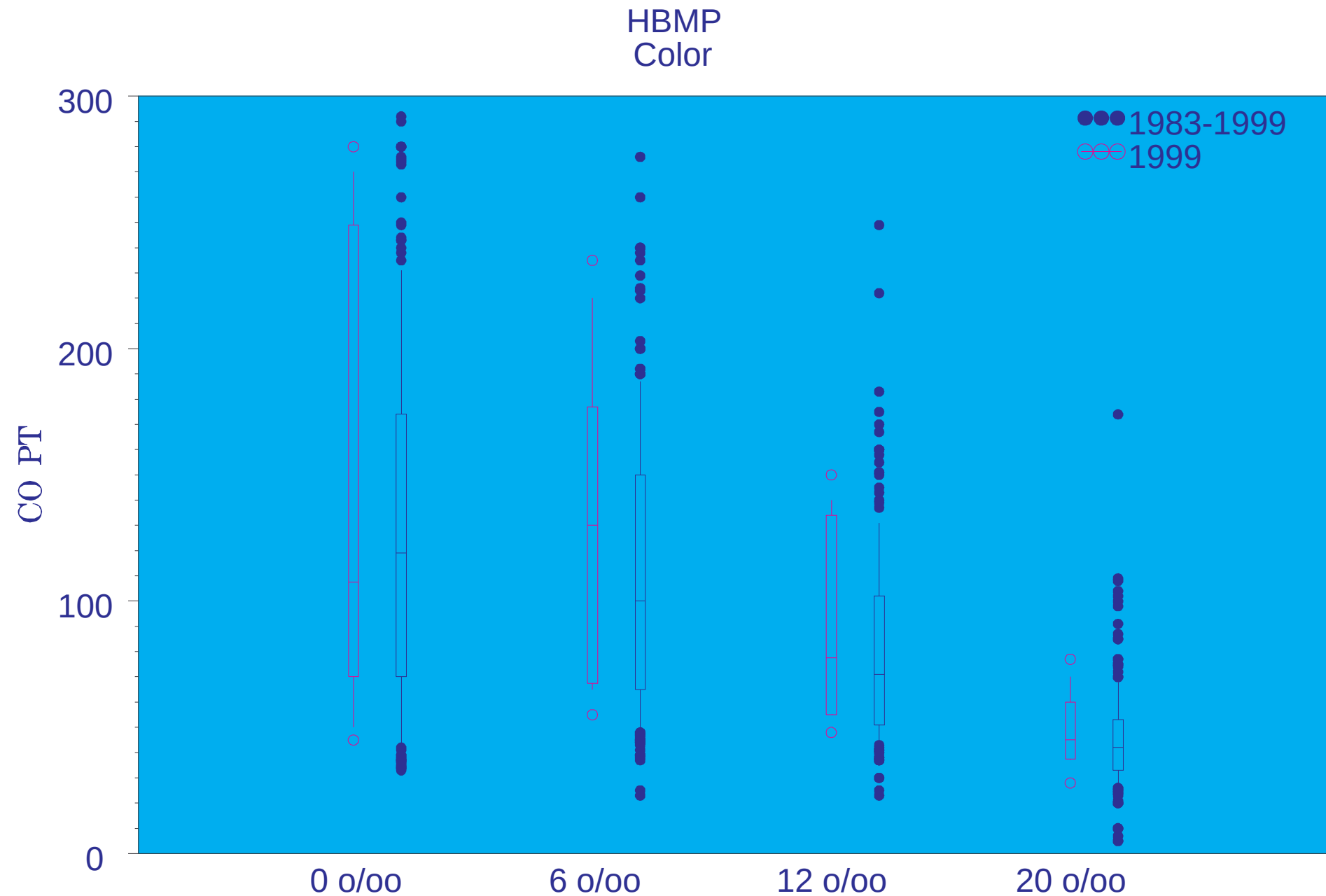


Figure 3.28 Box and Whisker Plots of Color at salinity sampling zones (1999) & (1983-1999).

# HBMP Extinction Coefficient

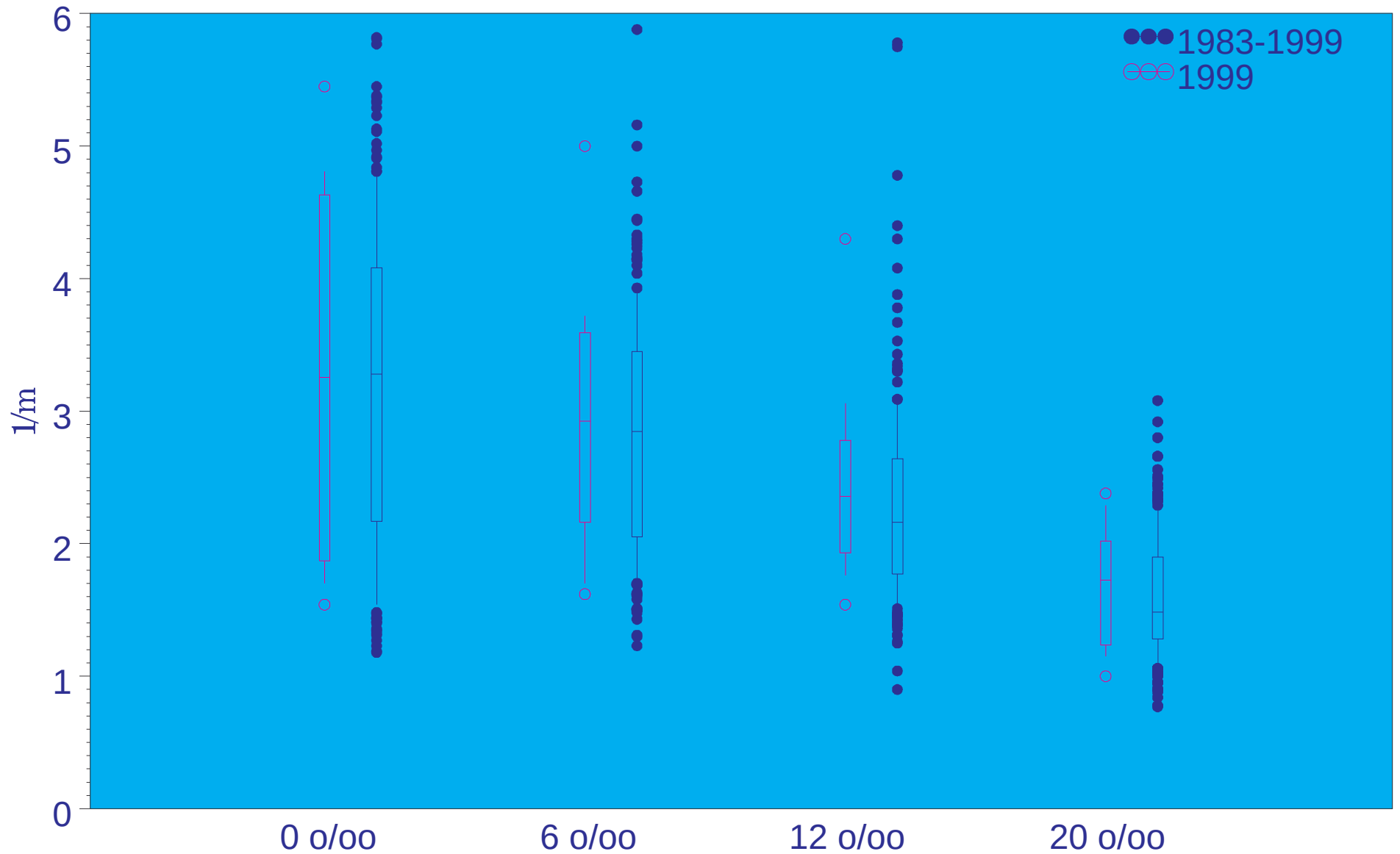


Figure 3.29 Box and Whisker Plots of Extinction Coefficient at salinity sampling zones (1999) & (1983-1999).

HBMP  
NO<sub>2</sub>-NO<sub>3</sub>

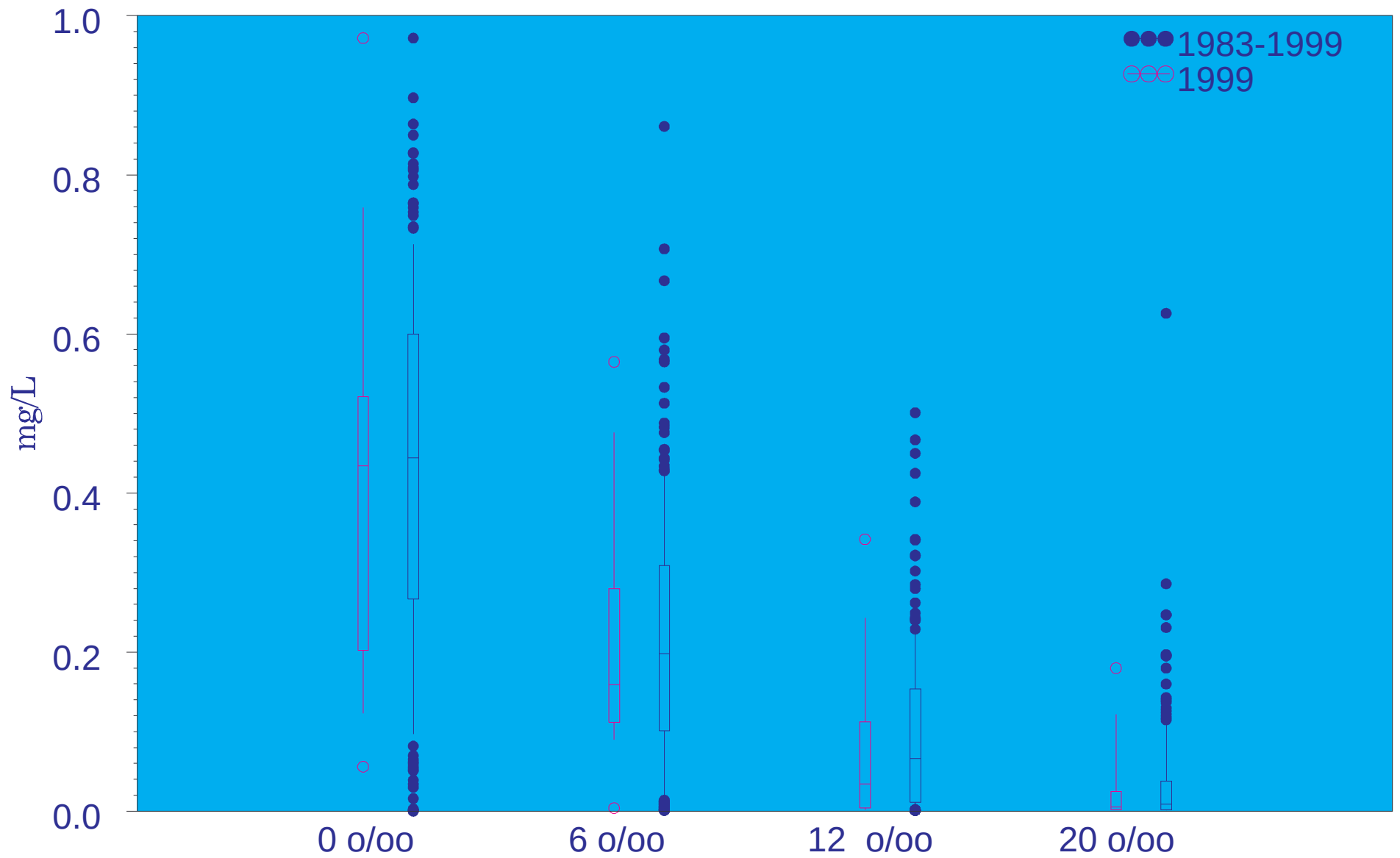


Figure 3.30 Box and Whisker Plots of Nitrite/Nitrate at salinity sampling zones (1999) & (1983-1999).

# HBMP Ortho-Phosphorus

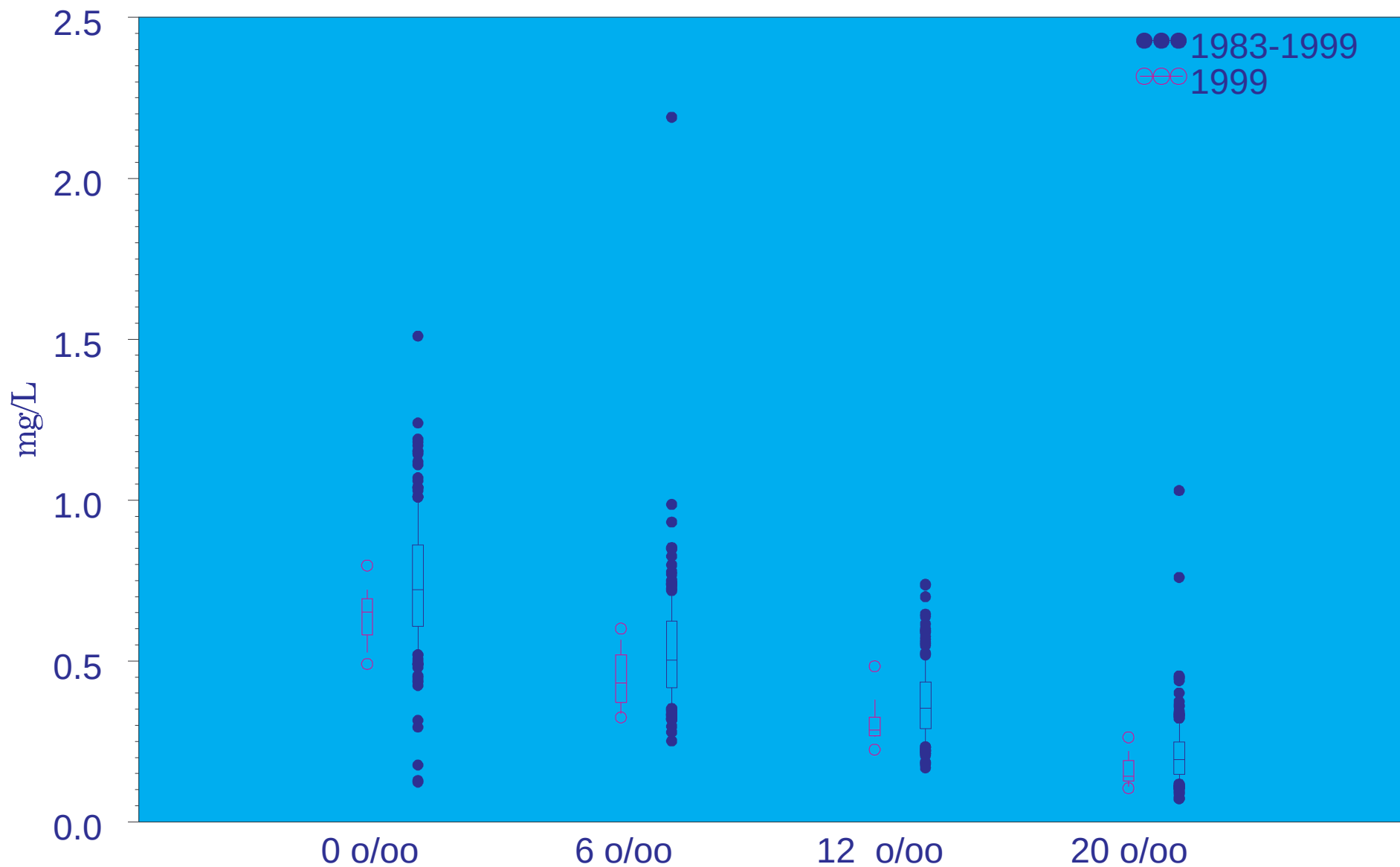


Figure 3.31 Box and Whisker Plots of Ortho-phosphorus at salinity sampling zones (1999) & (1983-1999).

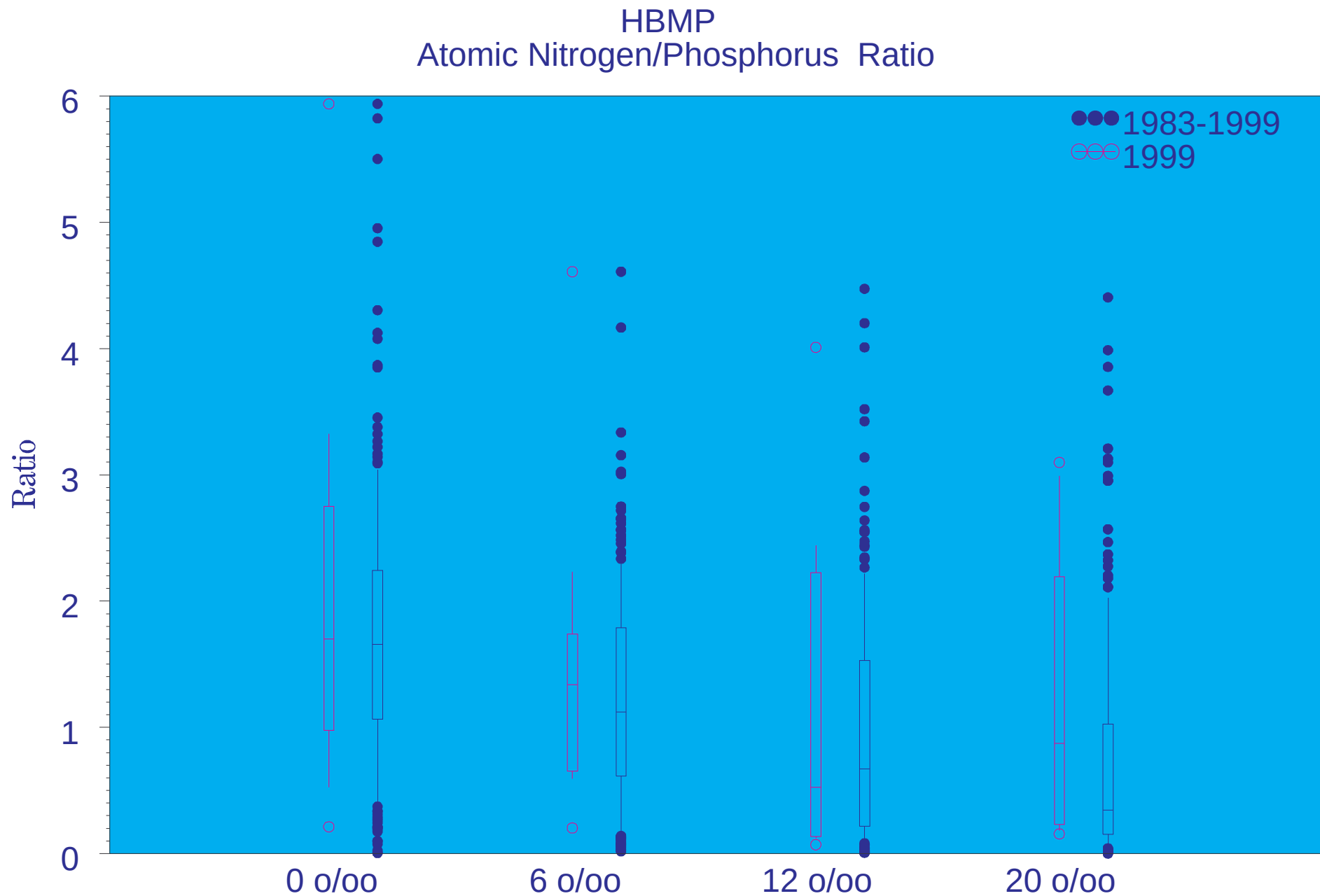


Figure 3.32 Box and Whisker Plots of Atomic N/P Ratio at salinity sampling zones (1999) & (1983-1999).



# HBMP Carbon Uptake

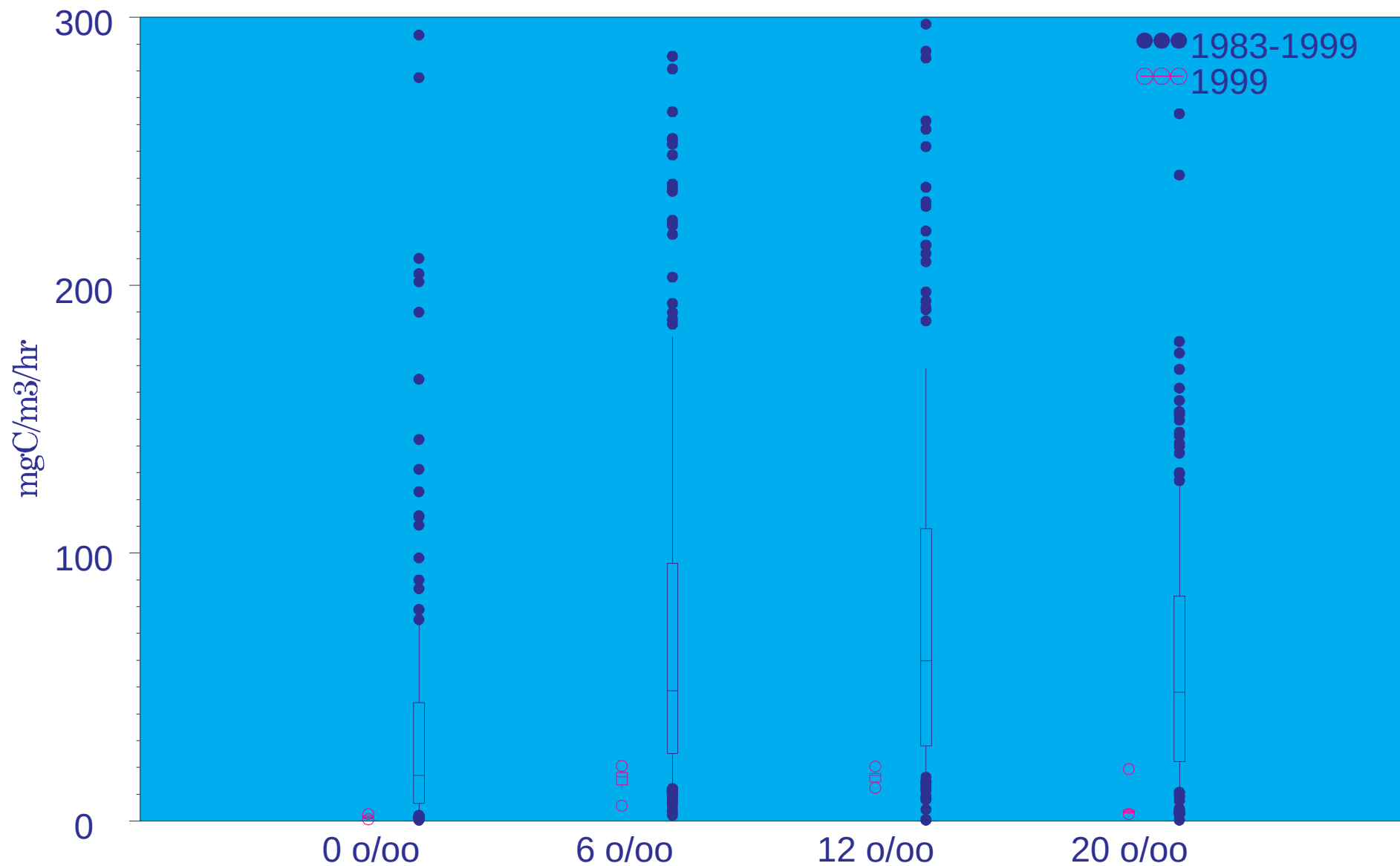


Figure 3.34 Box and Whisker Plots of Carbon Uptake ( $\text{mgC/m}^3/\text{hr}$ ) at salinity sampling zones (1999) & (1983-1999).

# HBMP Carbon Uptake

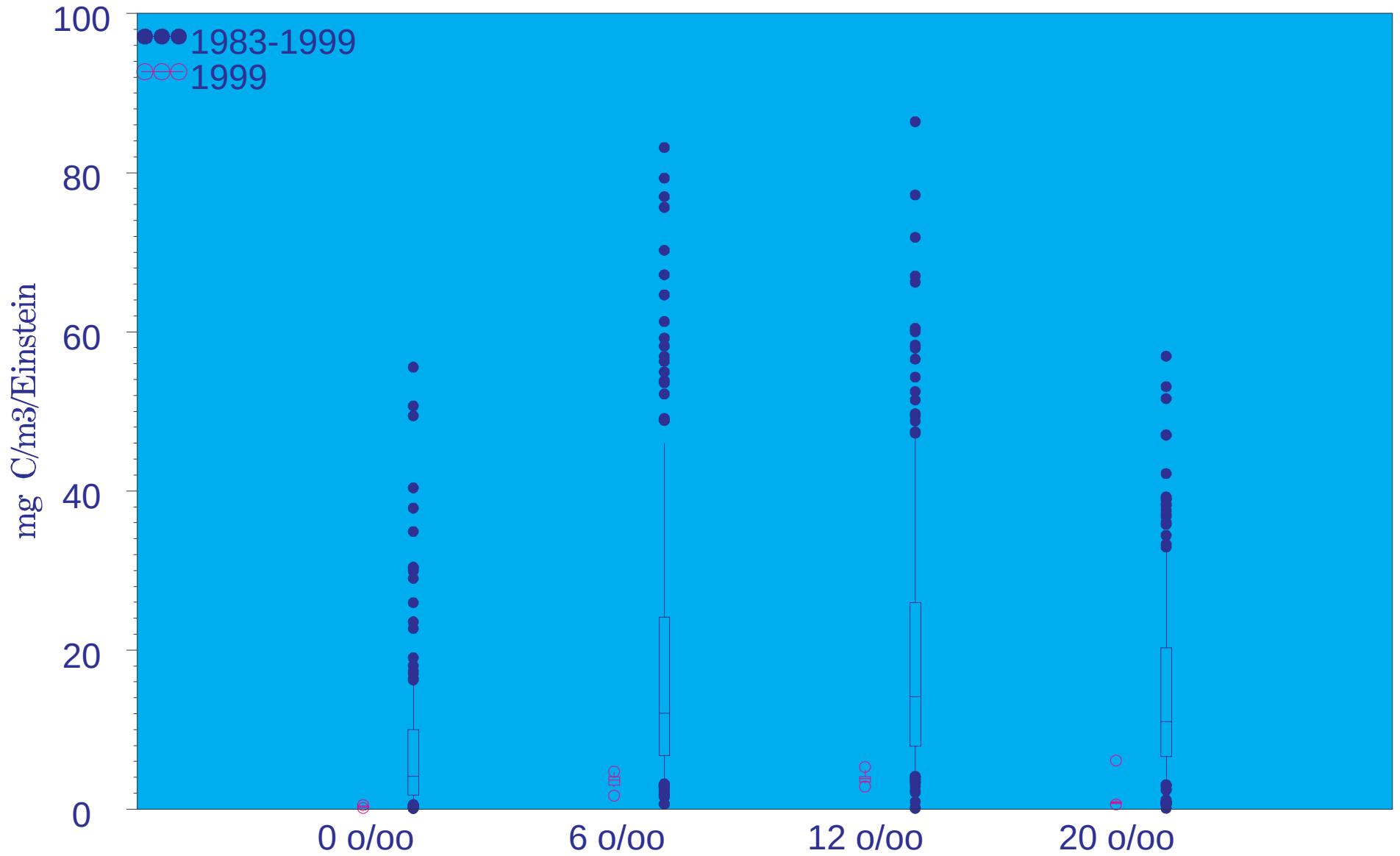


Figure 3.35 Box and Whisker Plots of Carbon Uptake (mgC/m<sup>3</sup>/Ein.) at salinity sampling zones (1999) & (1983-1999).



# HBMP Chlorophyll a

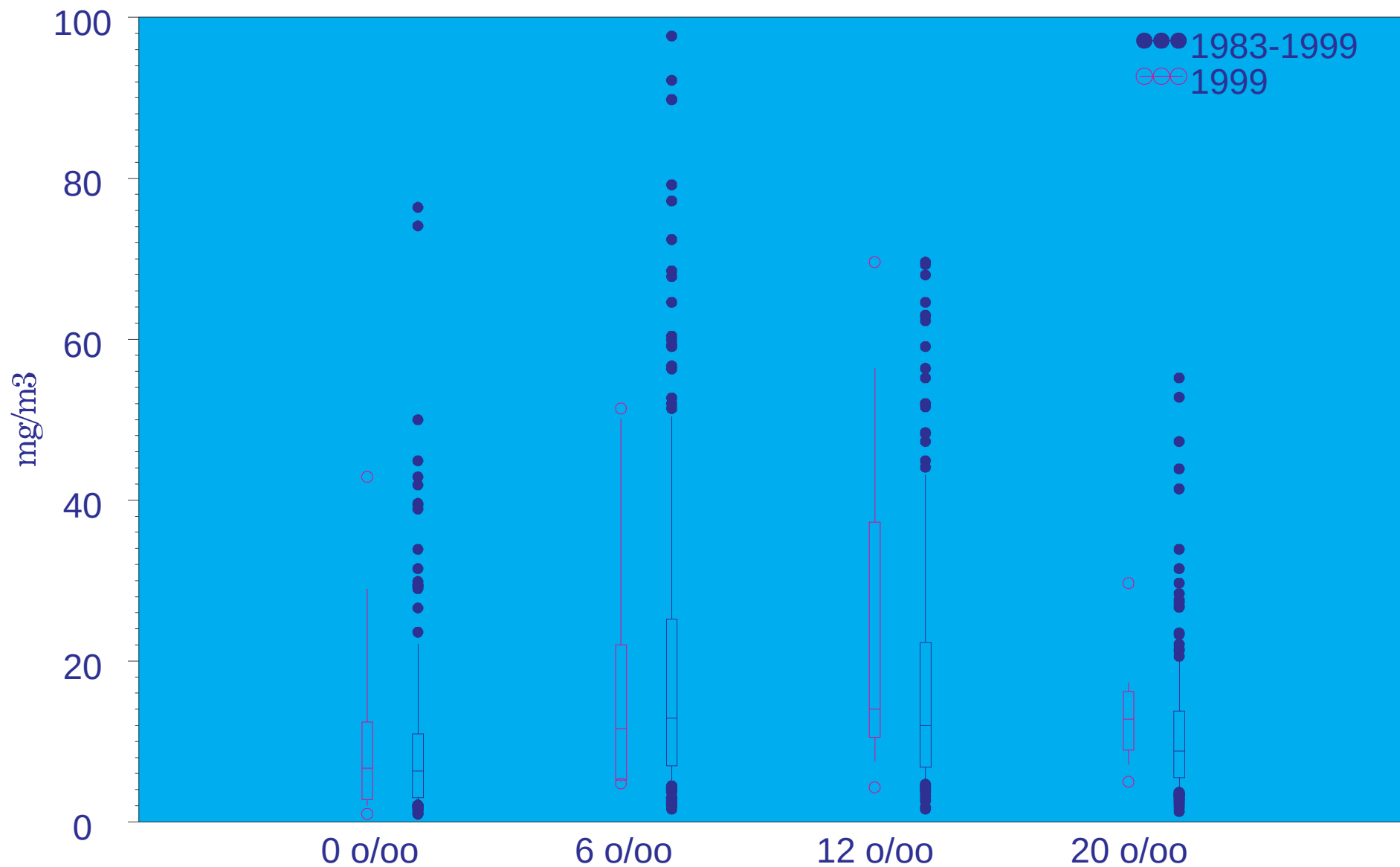
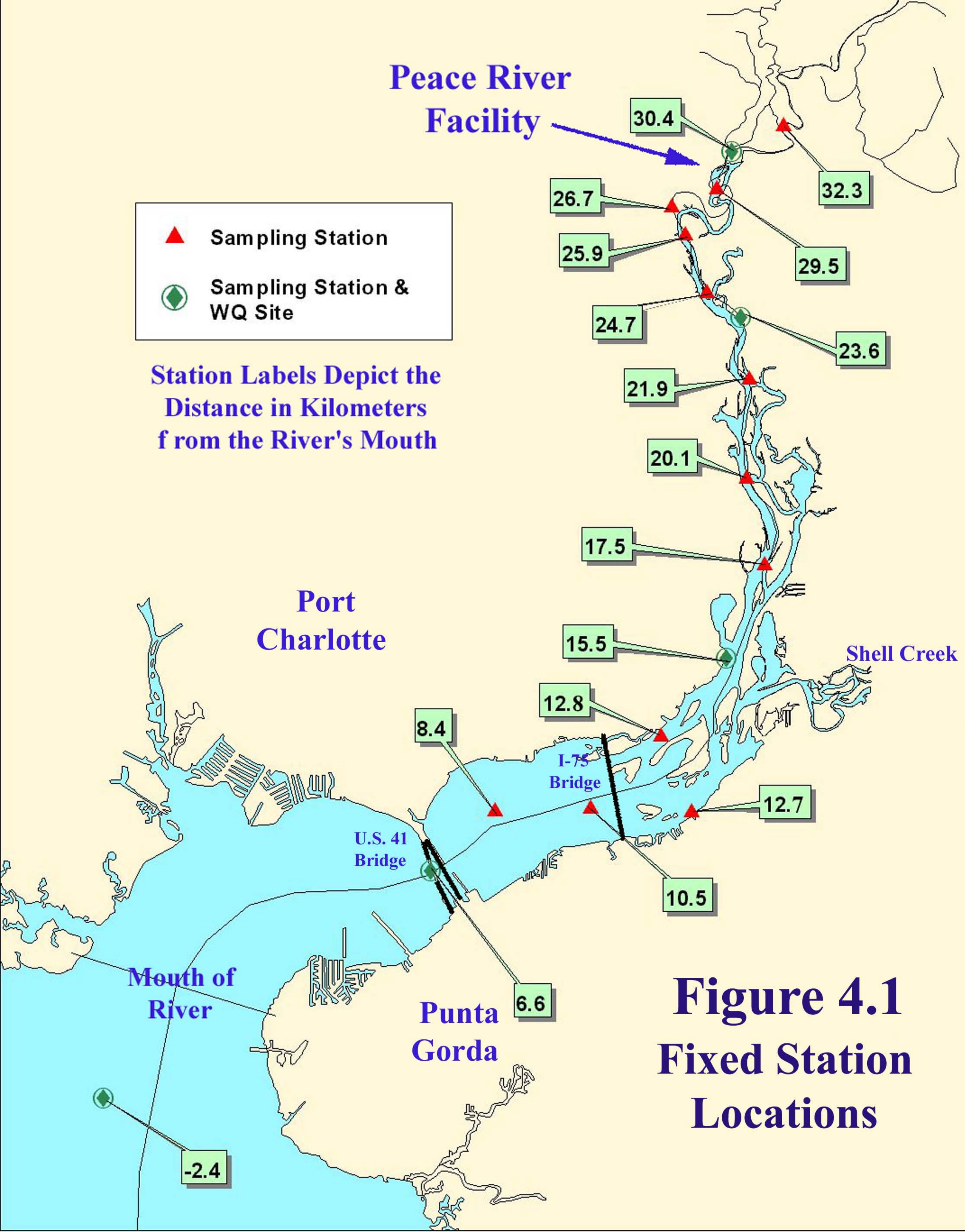


Figure 3.36 Box and Whisker Plots of Chlorophyll a (mg/m<sup>3</sup>) at salinity sampling zones (1999) & (1983-1999).







# HBMP 1999 Temperature

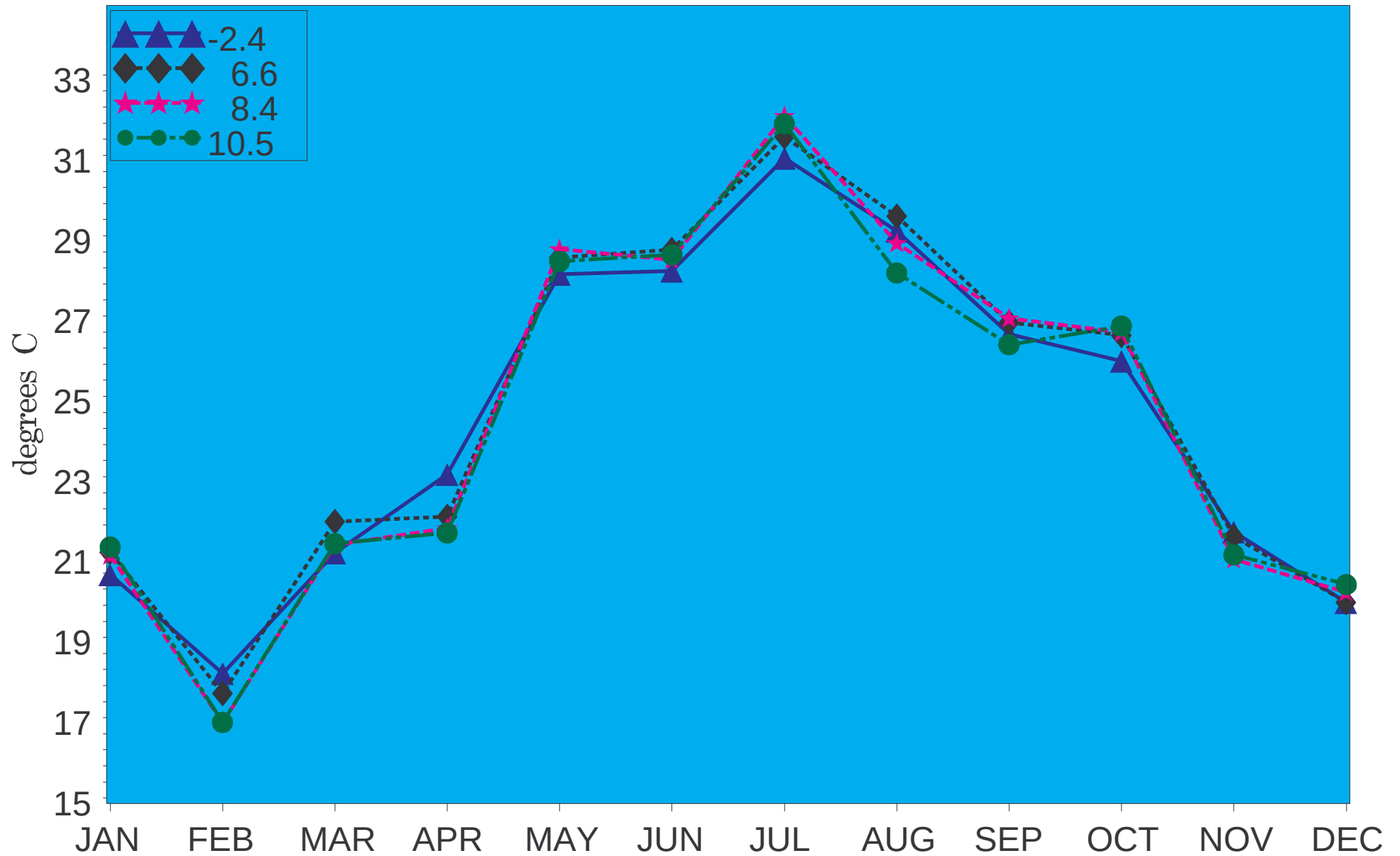


Figure 4.2a 1999 Temperature at 4 of the 17 fixed sampling stations.

# HBMP 1999 Temperature

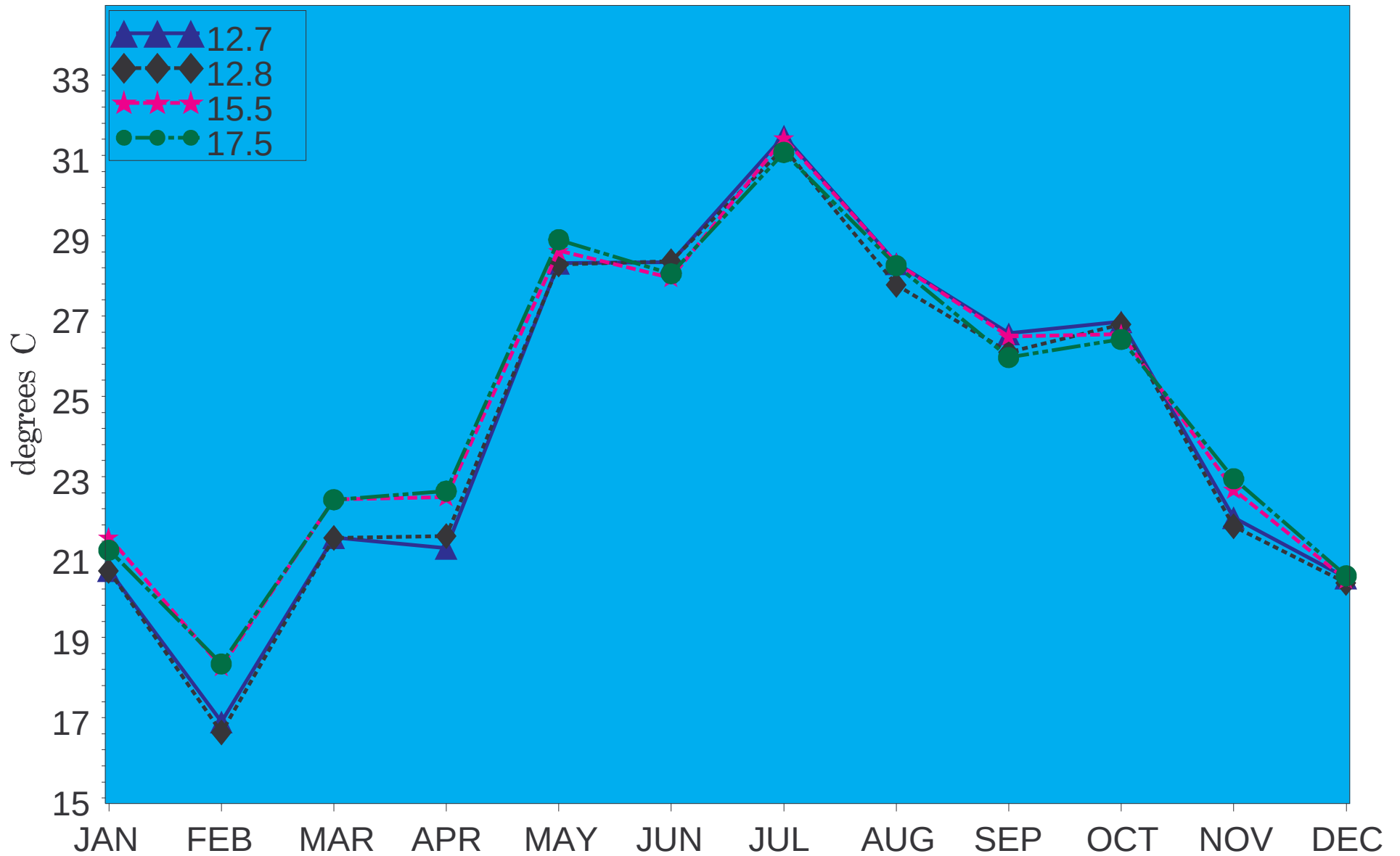


Figure 4.2b 1999 Temperature at 4 of the 17 fixed sampling stations.

# HBMP 1999 Temperature

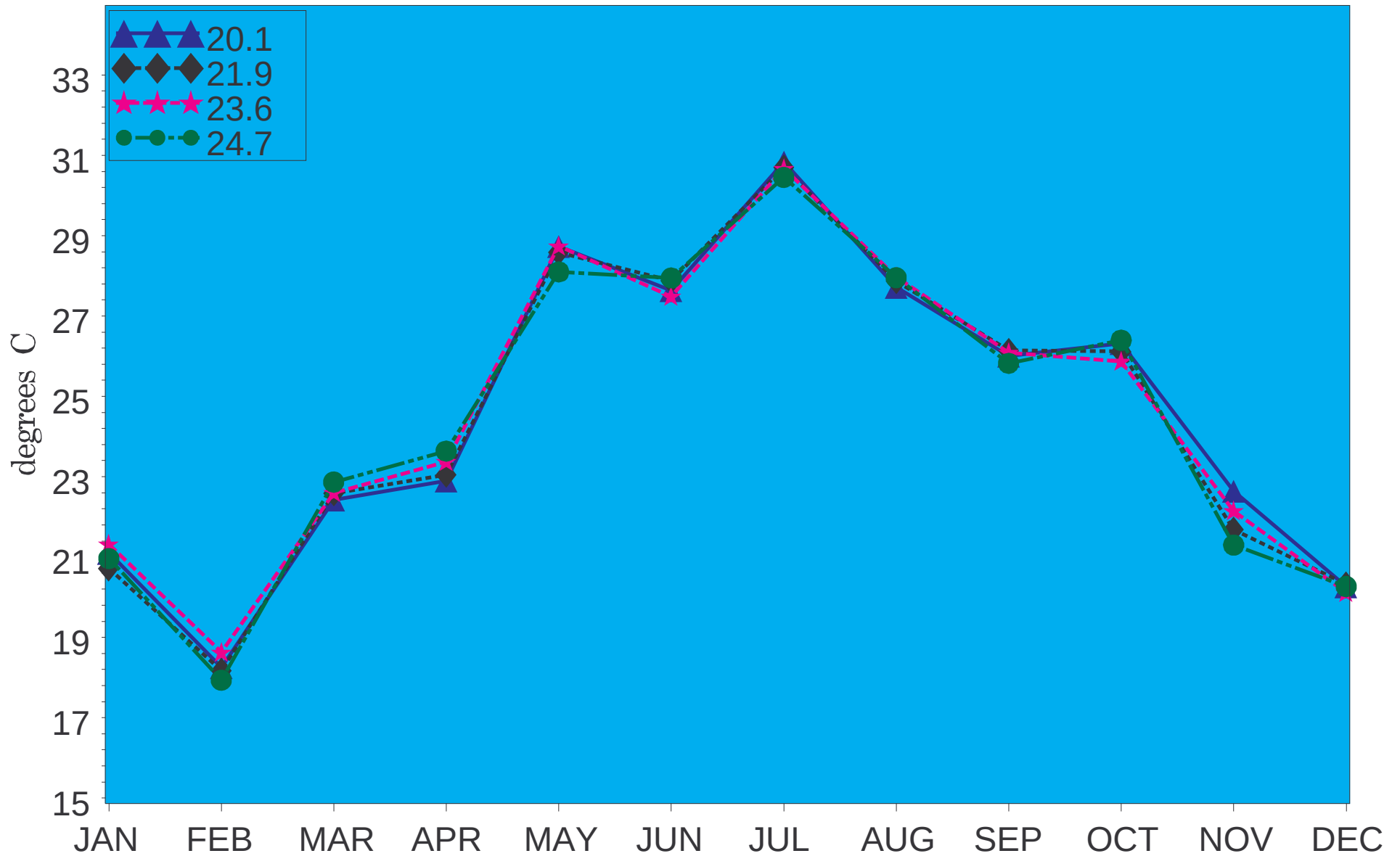


Figure 4.2c 1999 Temperature at 4 of the 17 fixed sampling stations.

# HBMP 1999 Temperature

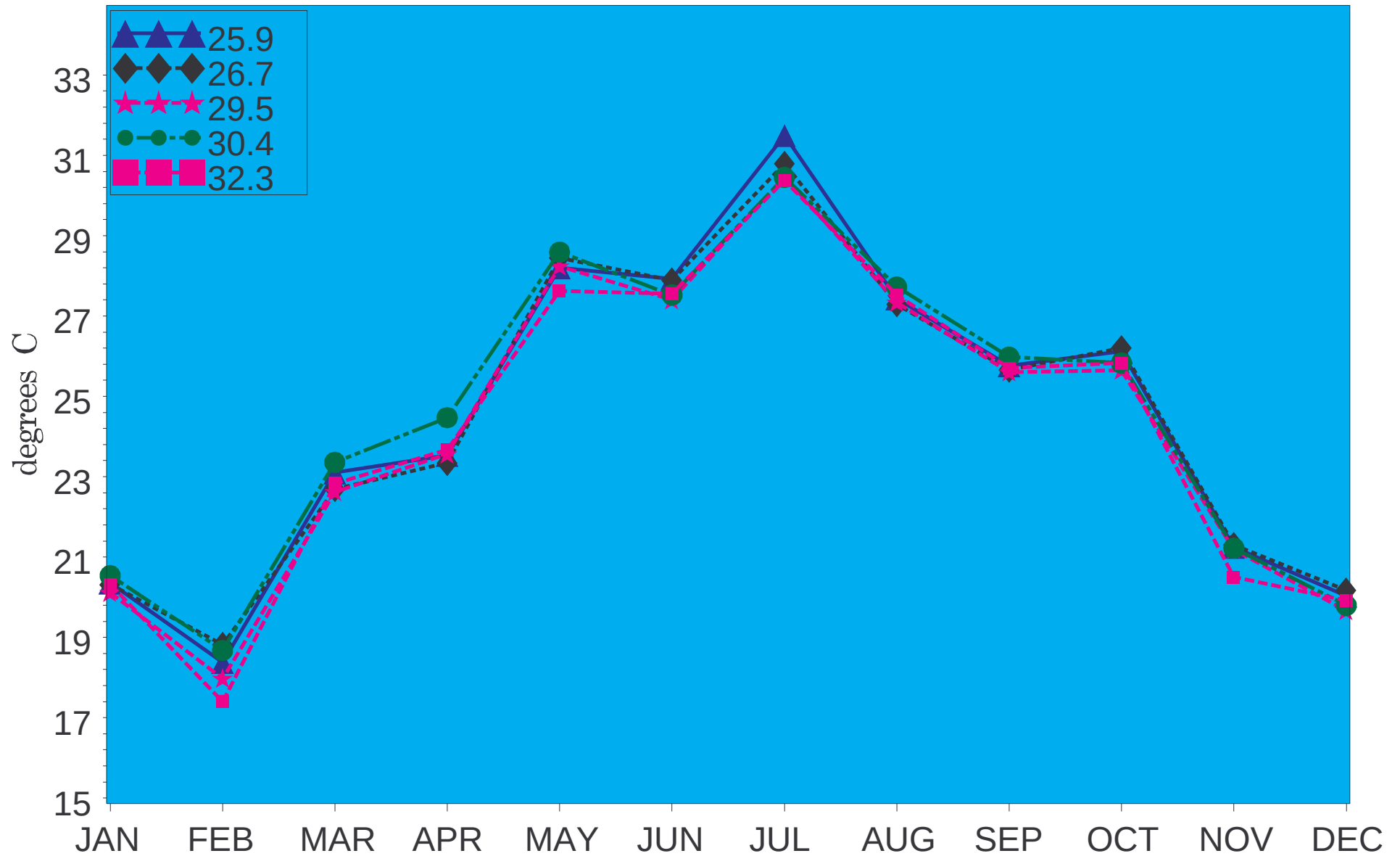


Figure 4.2d 1999 Temperature at 5 of the 17 fixed sampling stations.

# HBMP 1999 Dissolved Oxygen

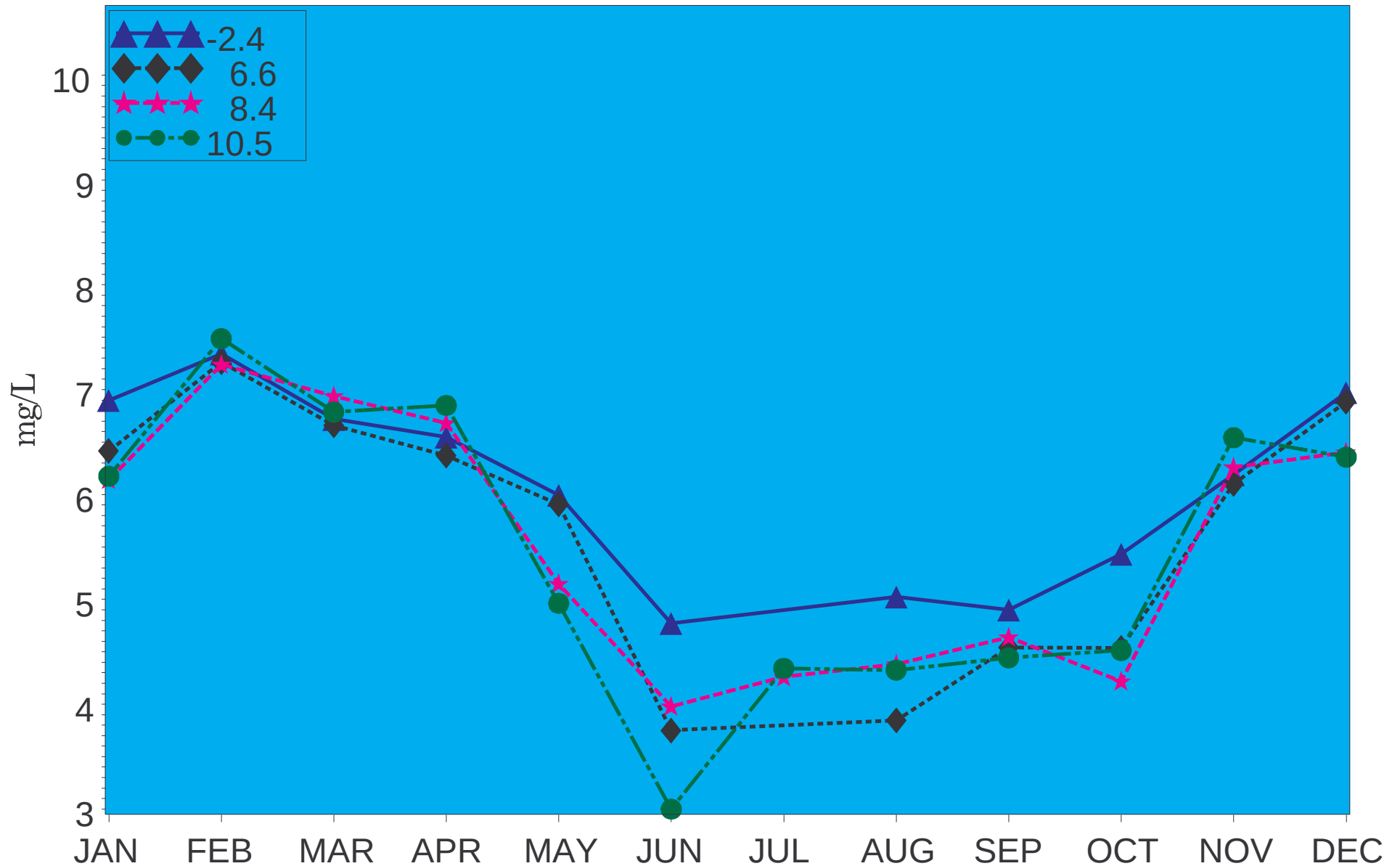


Figure 4.3a 1999 Dissolved Oxygen at 4 of the 17 fixed sampling stations.

# HBMP 1999 Dissolved Oxygen

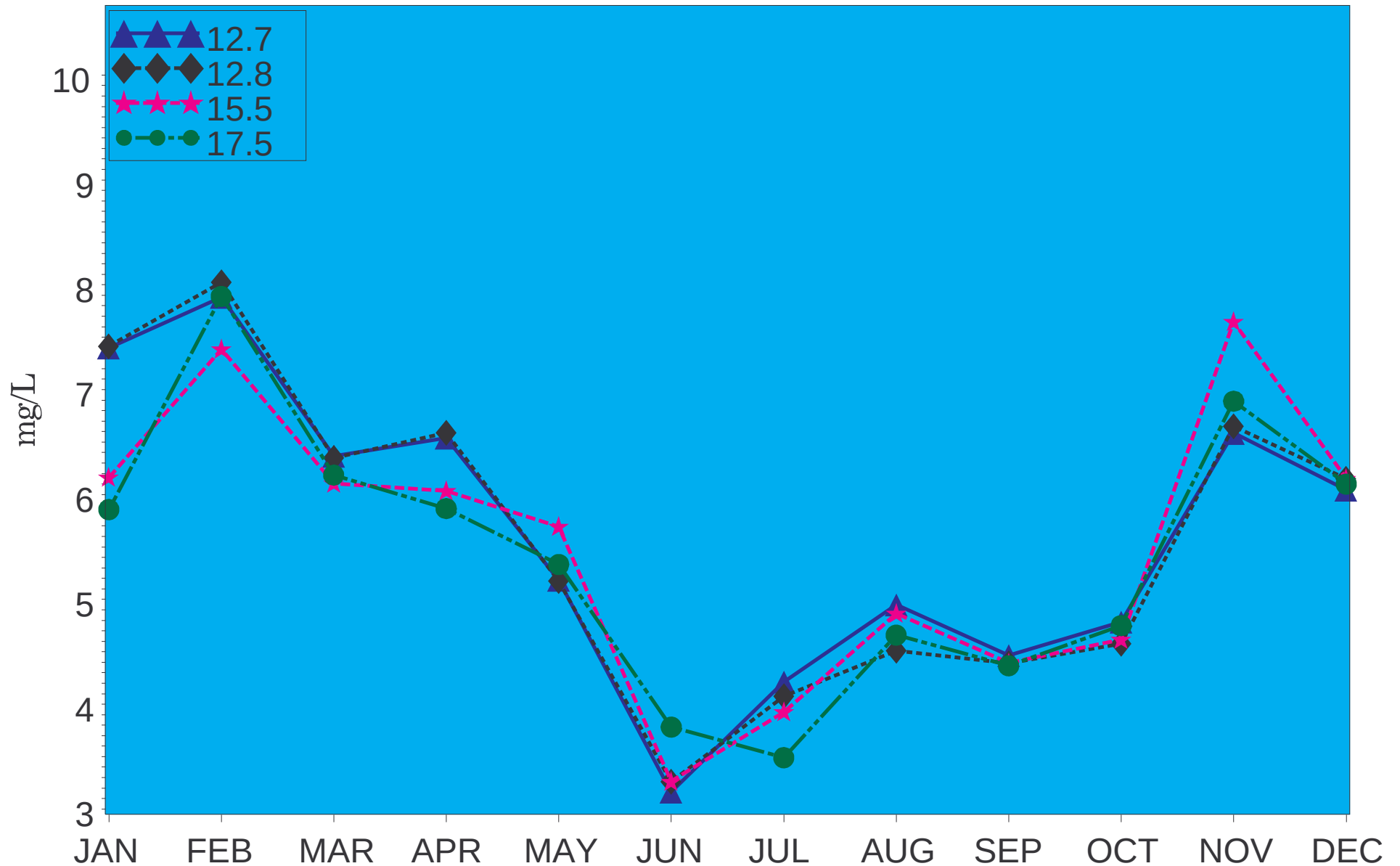


Figure 4.3b 1999 Dissolved Oxygen at 4 of the 17 fixed sampling stations.



# HBMP 1999 Dissolved Oxygen

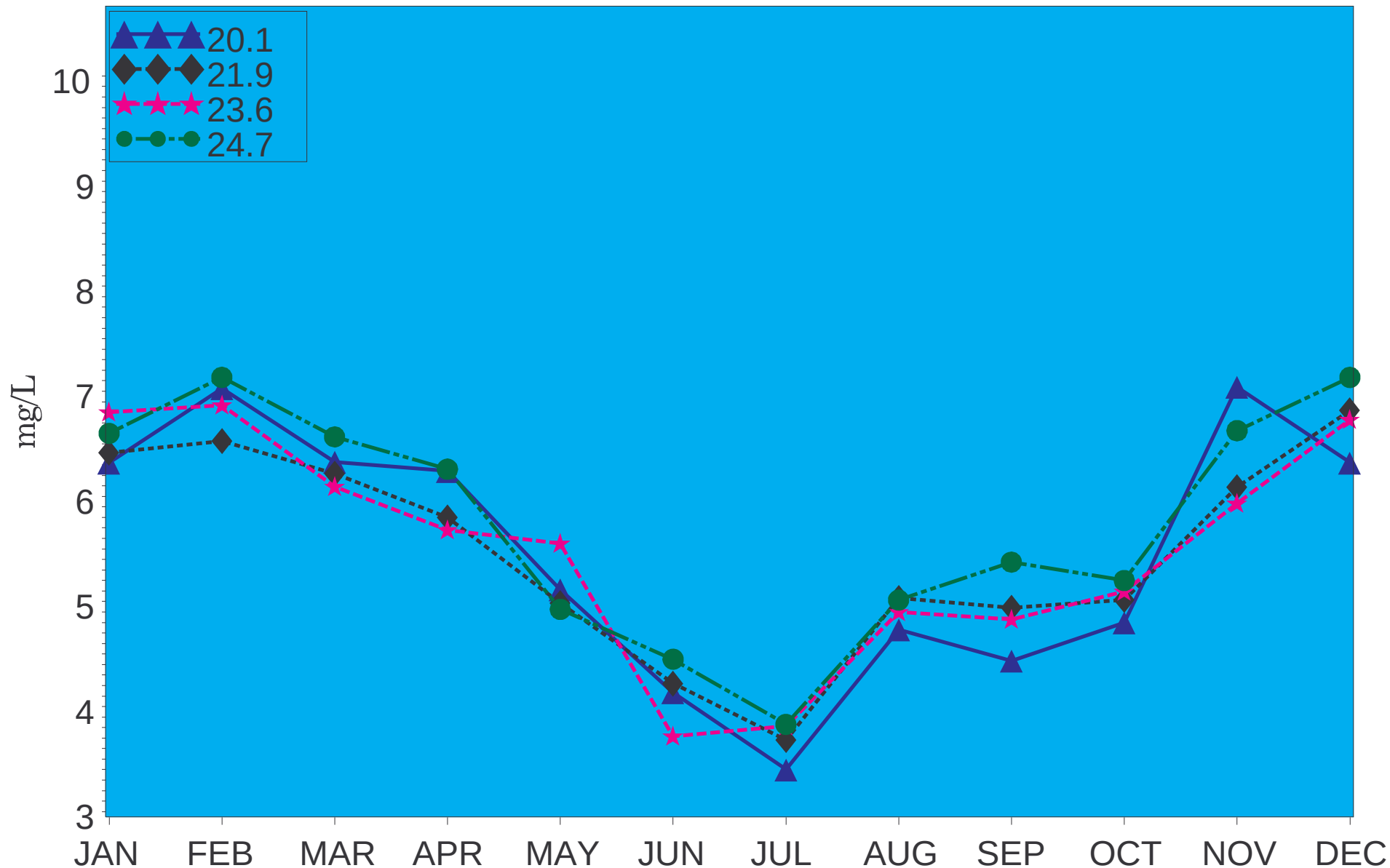


Figure 4.3c 1999 Dissolved Oxygen at 4 of the 17 fixed sampling stations.

# HBMP 1999 Dissolved Oxygen

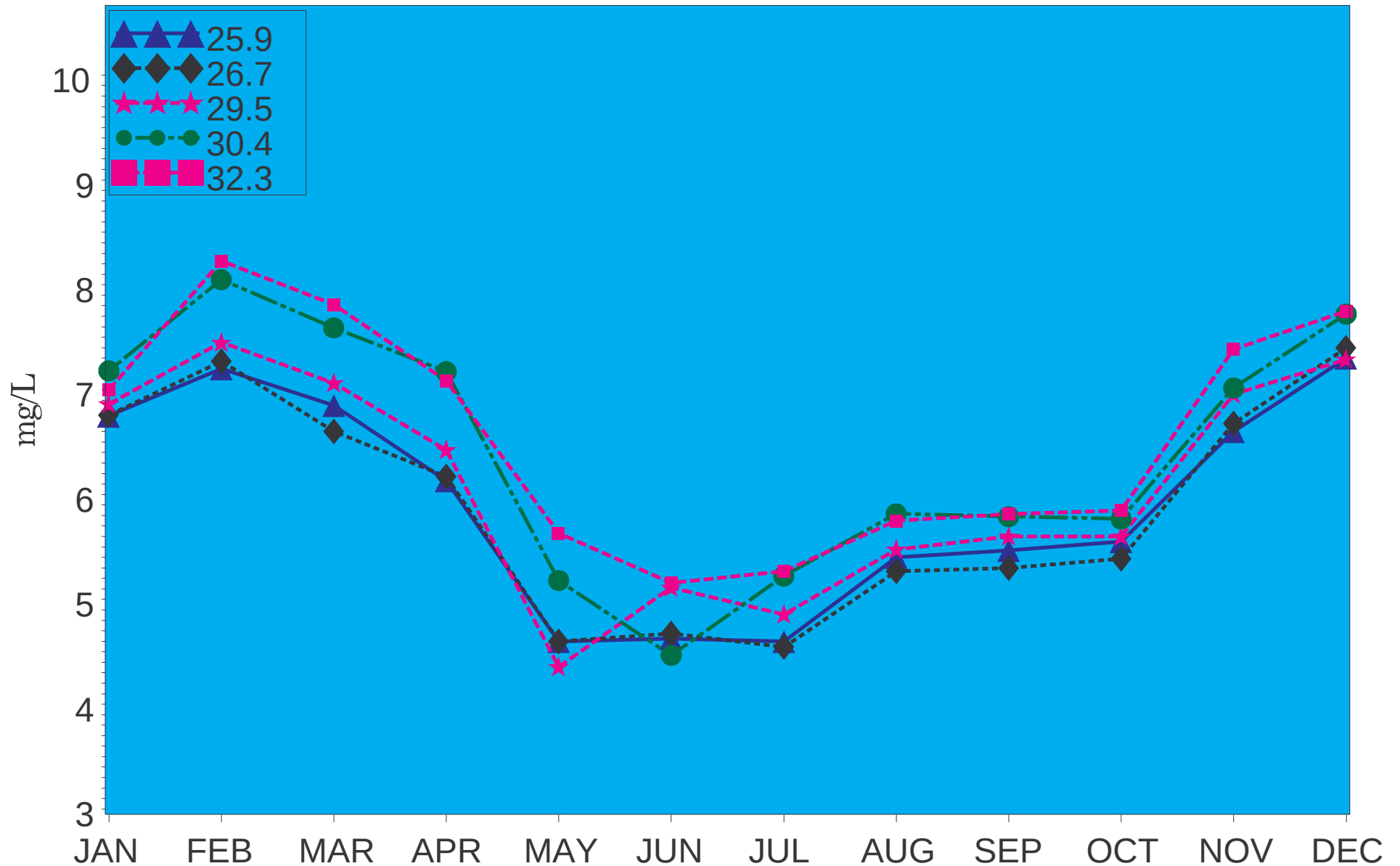


Figure 4.3d 1999 Dissolved Oxygen at 5 of the 17 fixed sampling stations.

HBMP 1999  
pH (Water Whole Field)

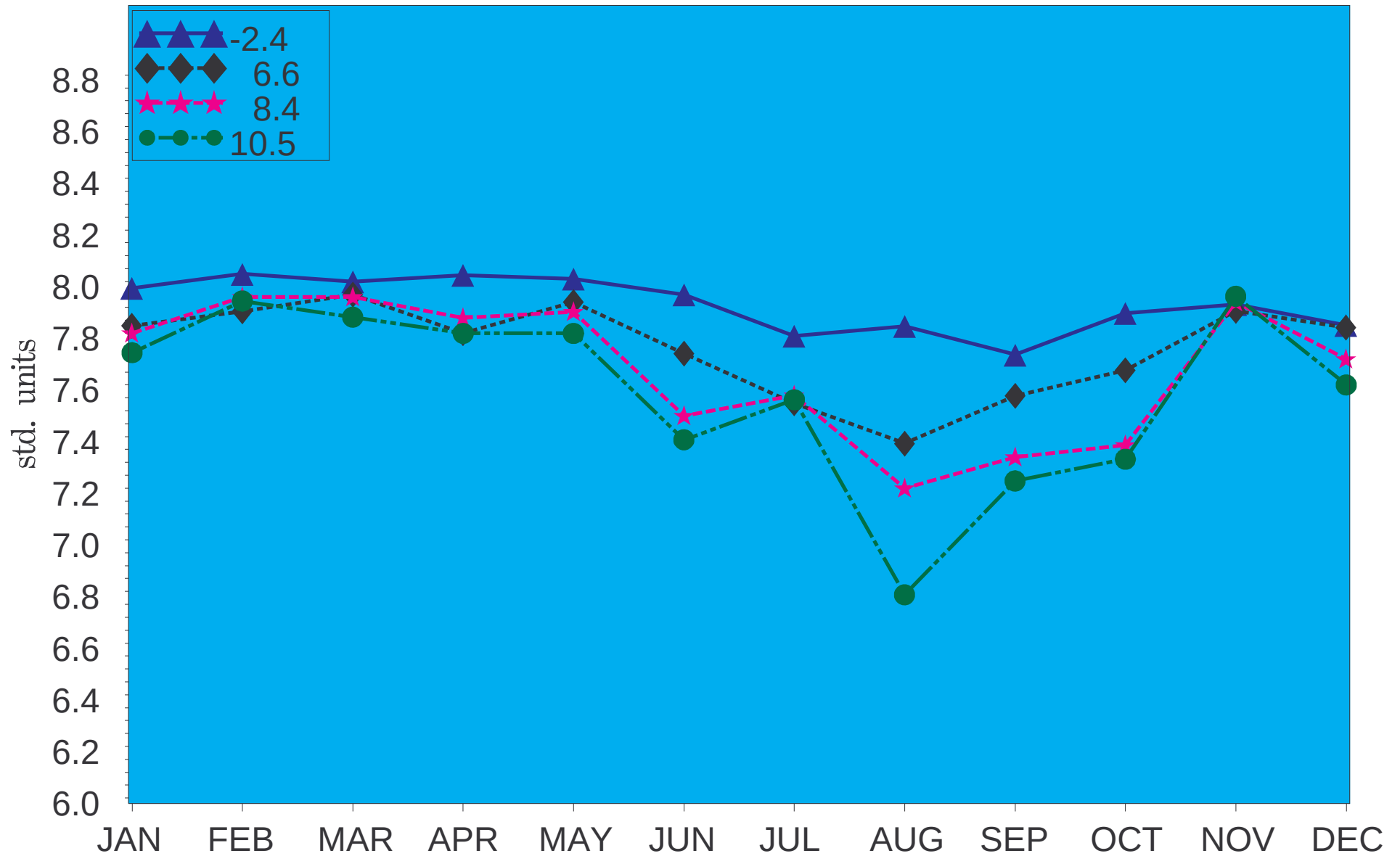


Figure 4.4a 1999 pH at 4 of the 17 fixed sampling stations.

HBMP 1999  
pH (Water Whole Field)

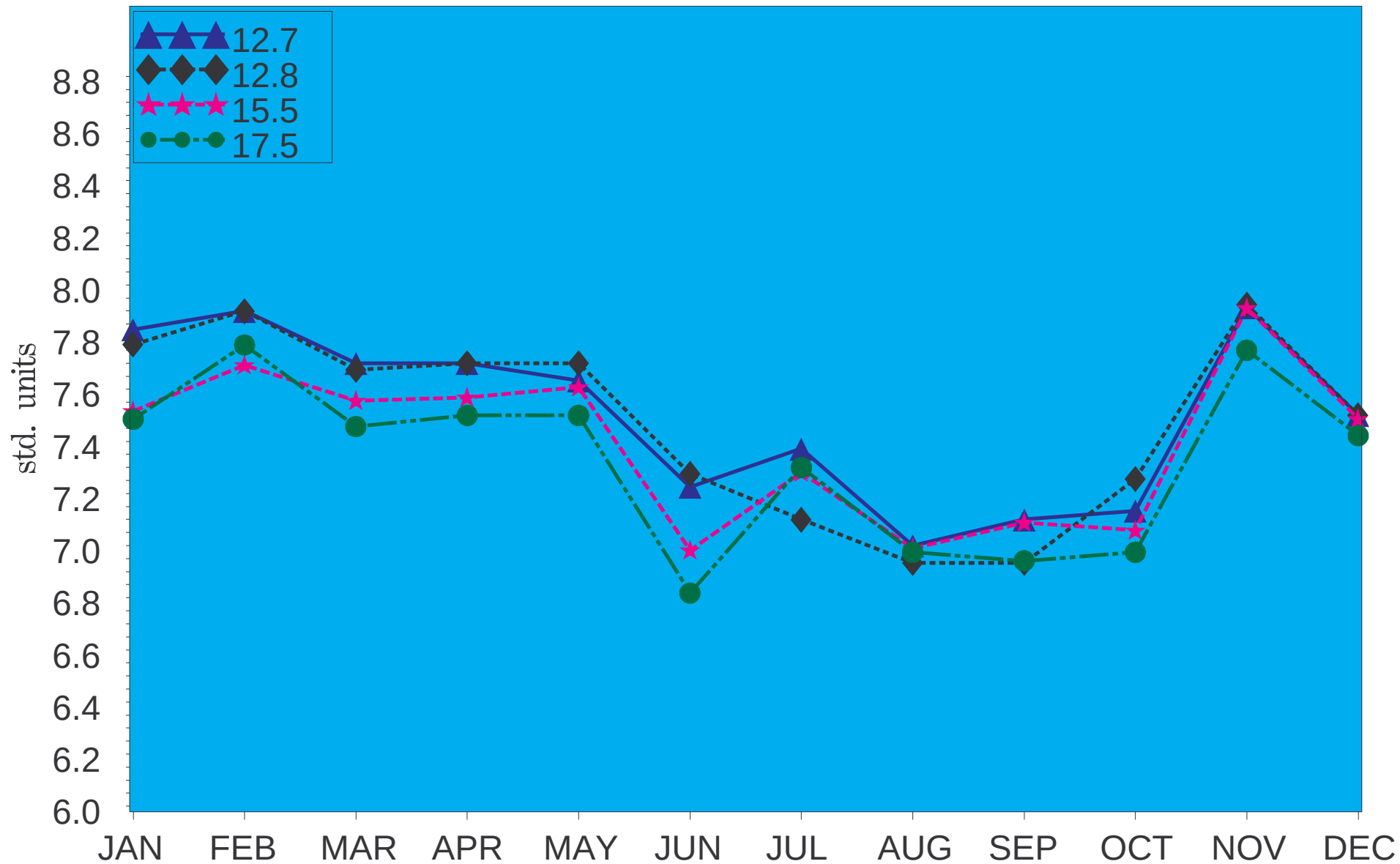


Figure 4.4b 1999 pH at 4 of the 17 fixed sampling stations.

HBMP 1999  
pH (Water Whole Field)

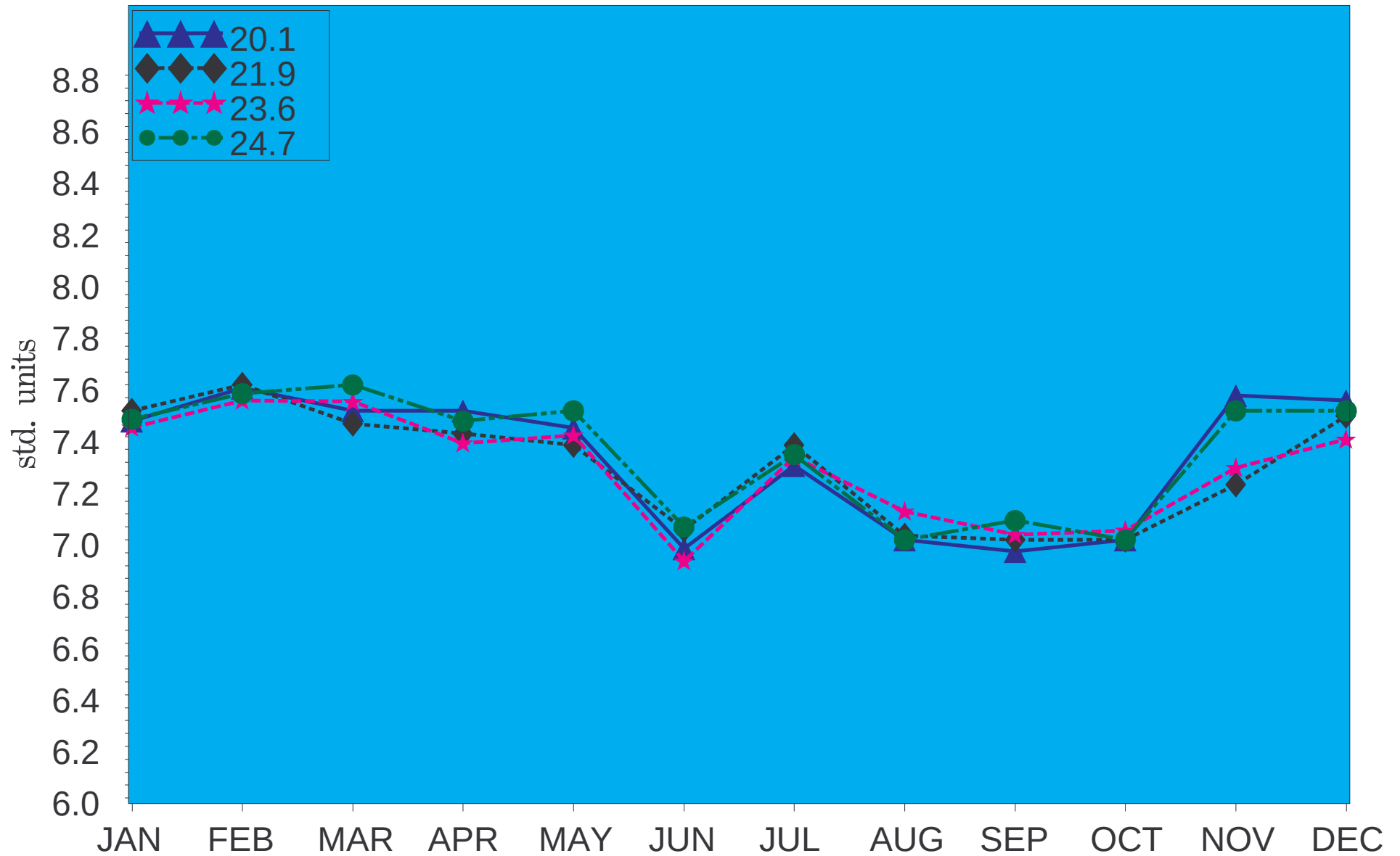


Figure 4.4c 1999 pH at 4 of the 17 fixed sampling stations.

HBMP 1999  
pH (Water Whole Field)

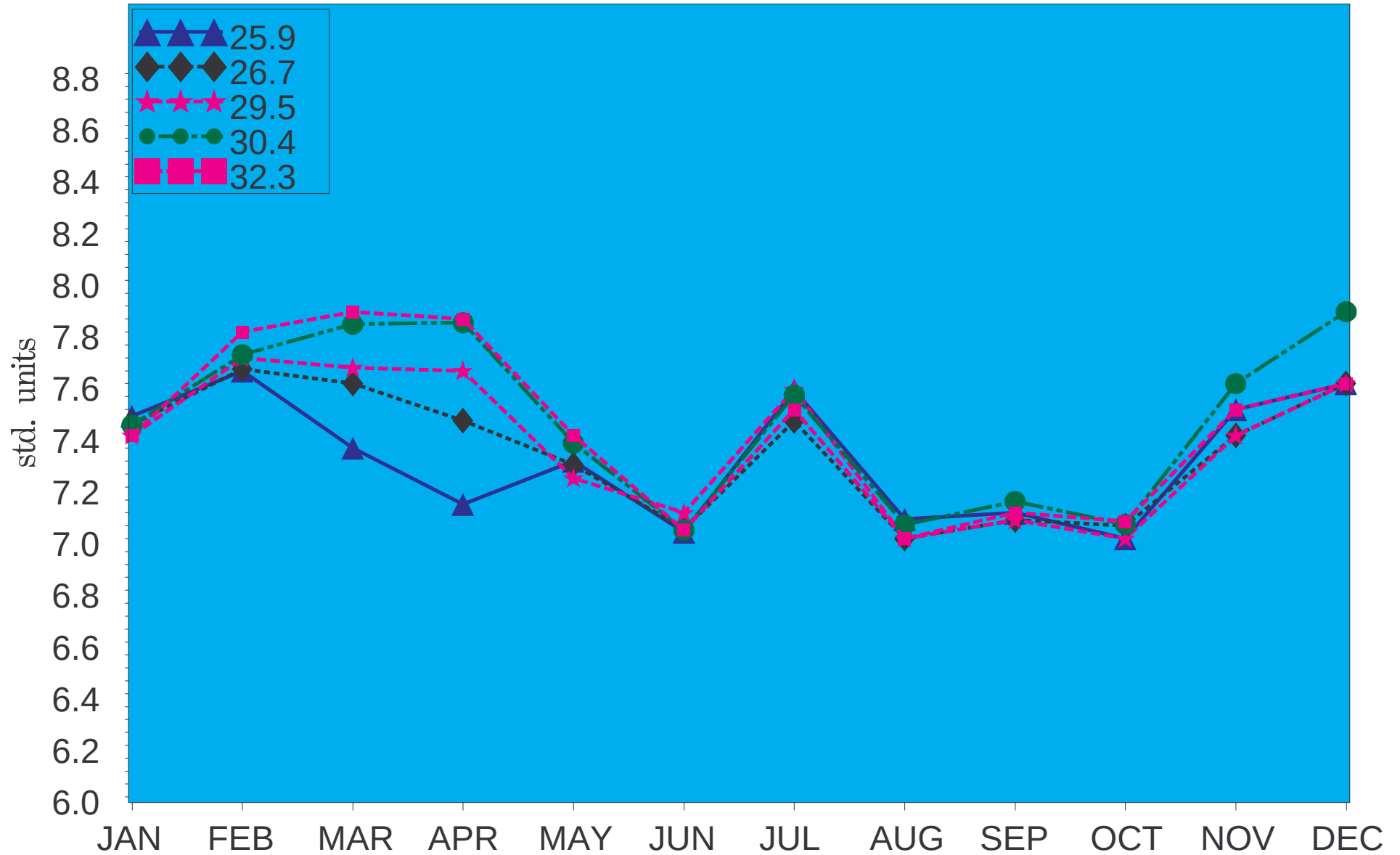


Figure 4.4d 1999 pH at 5 of the 17 fixed sampling stations.

# HBMP 1999 Light Depth to 1% Surface

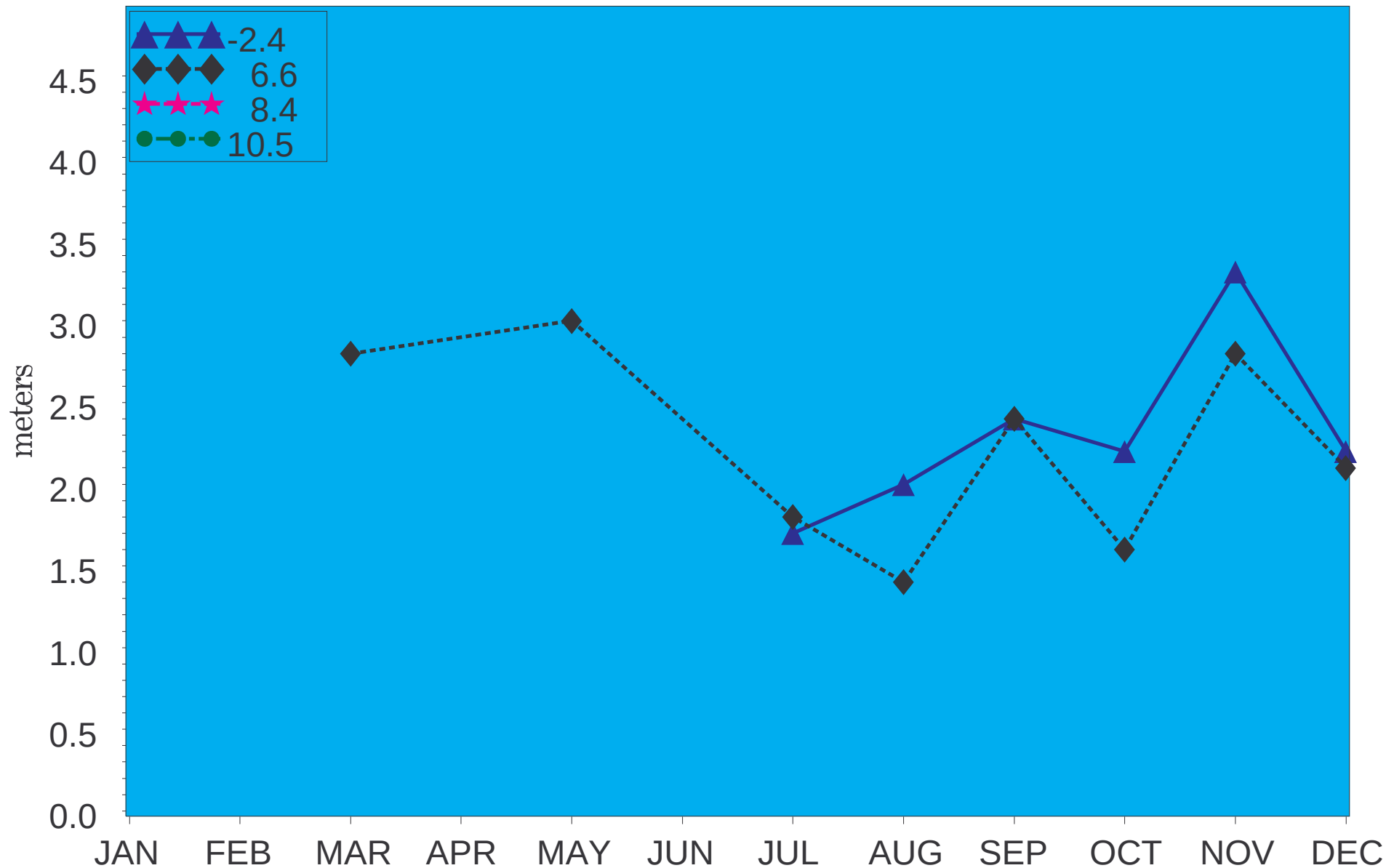


Figure 4.5a 1999 Light Depth at 4 of the 17 fixed sampling stations.

HBMP 1999  
Light Depth to 1% Surface

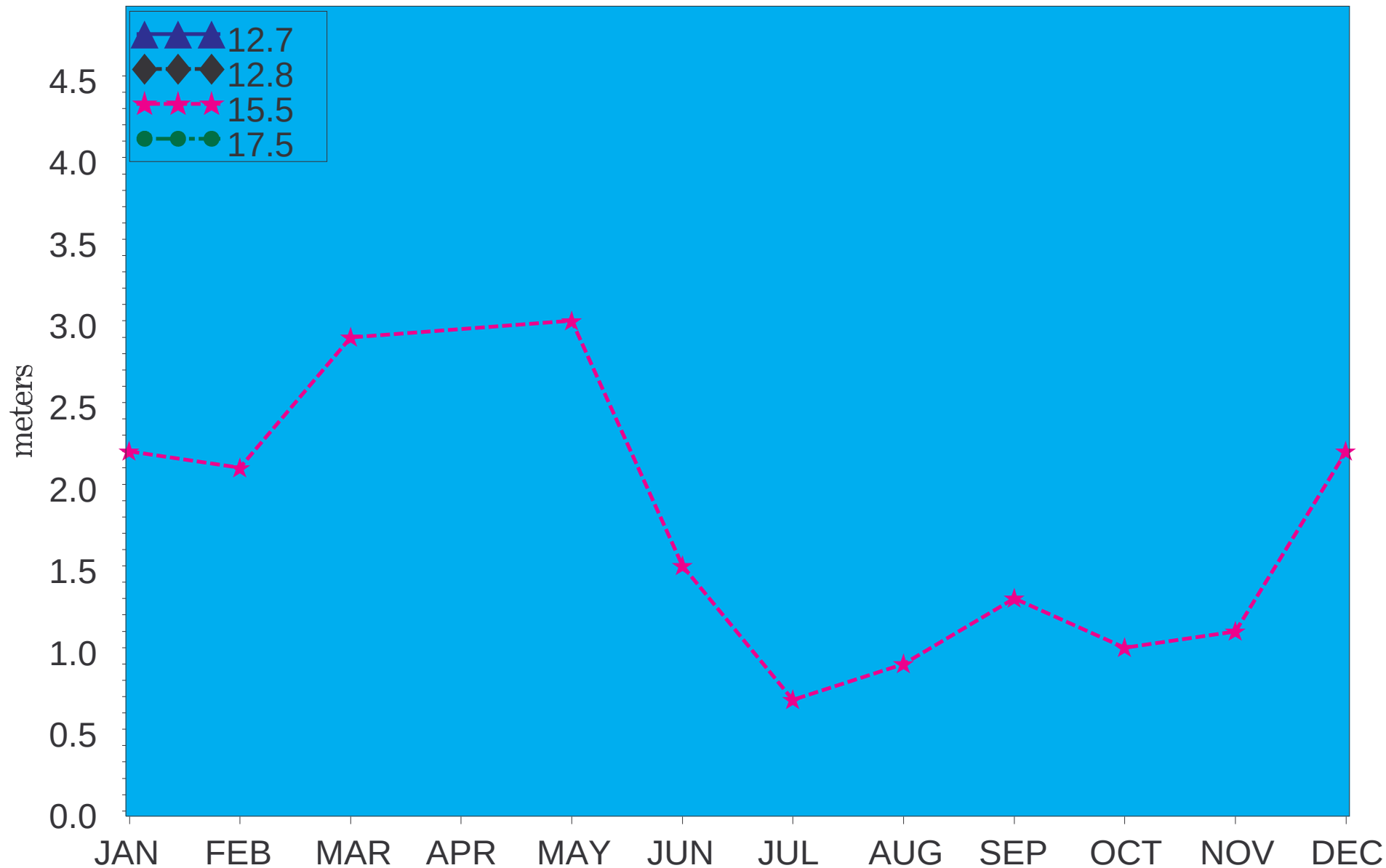


Figure 4.5b 1999 Light Depth at 4 of the 17 fixed sampling stations.



HBMP 1999  
Light Depth to 1% Surface

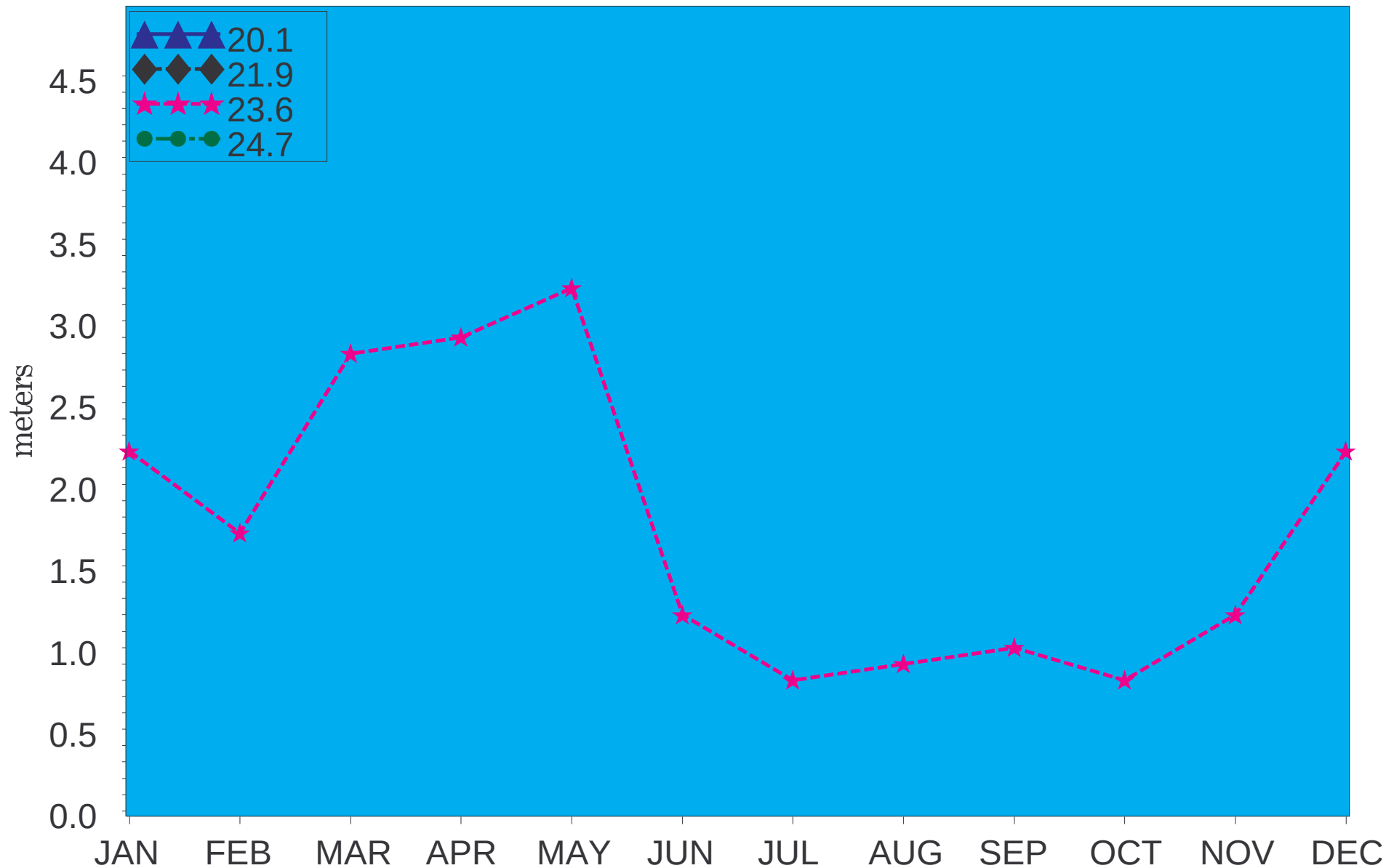


Figure 4.5c 1999 Light Depth at 4 of the 17 fixed sampling stations.

HBMP 1999  
Light Depth to 1% Surface

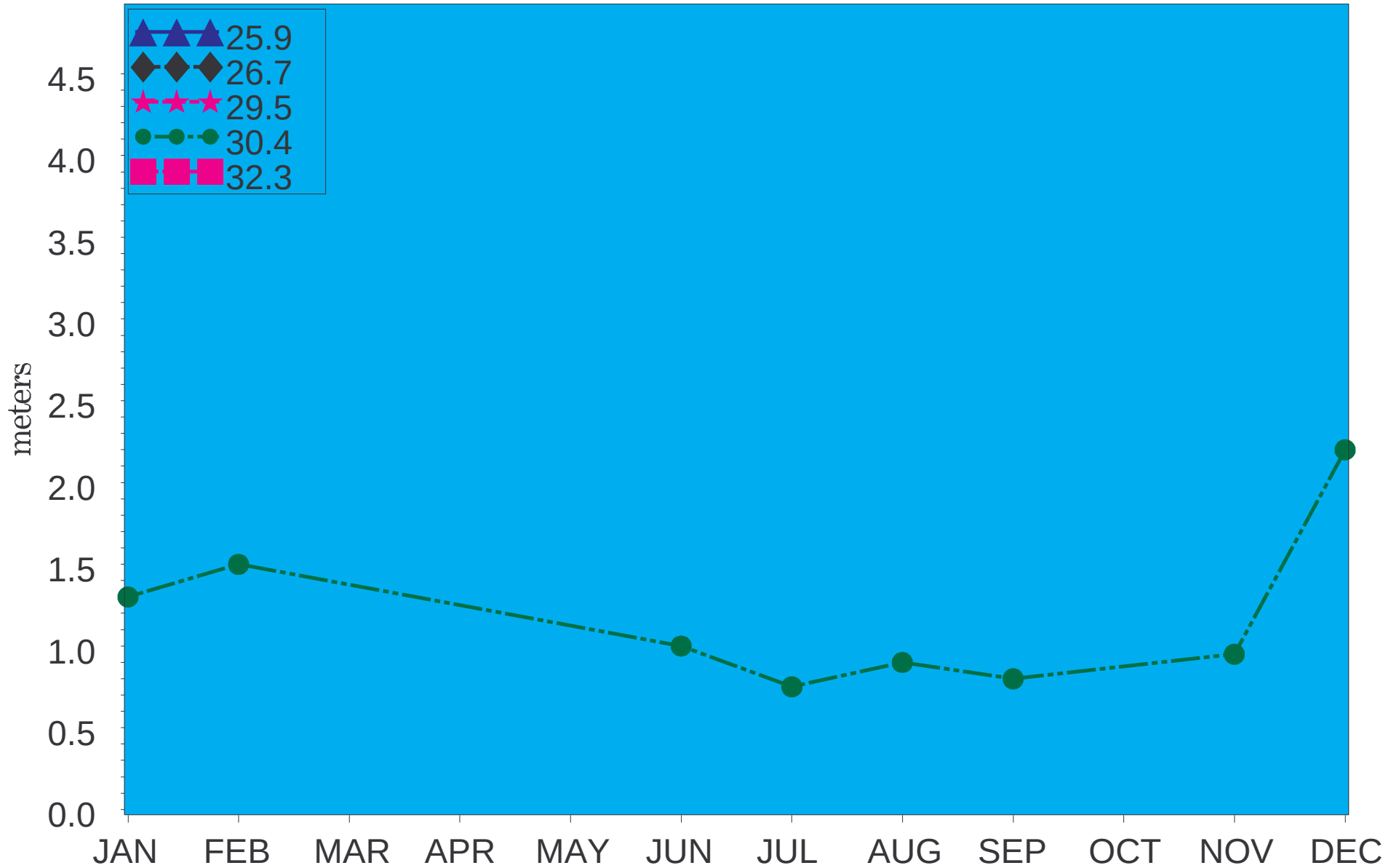


Figure 4.5d 1999 Light Depth at 5 of the 17 fixed sampling stations.

# HBMP 1999 Specific Conductance

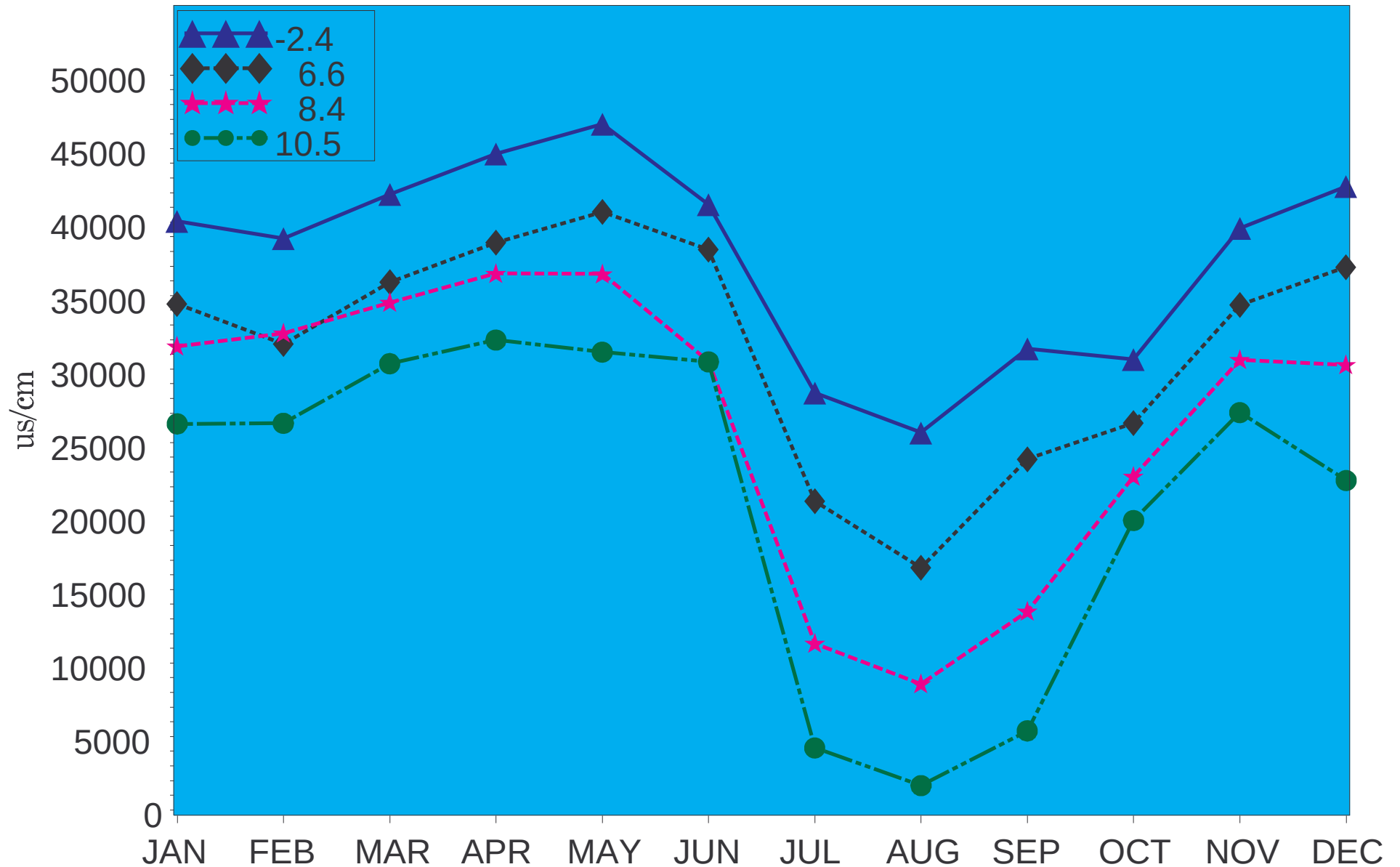


Figure 4.6a 1999 Specific Conductance at 4 of the 17 fixed sampling stations.

# HBMP 1999 Specific Conductance

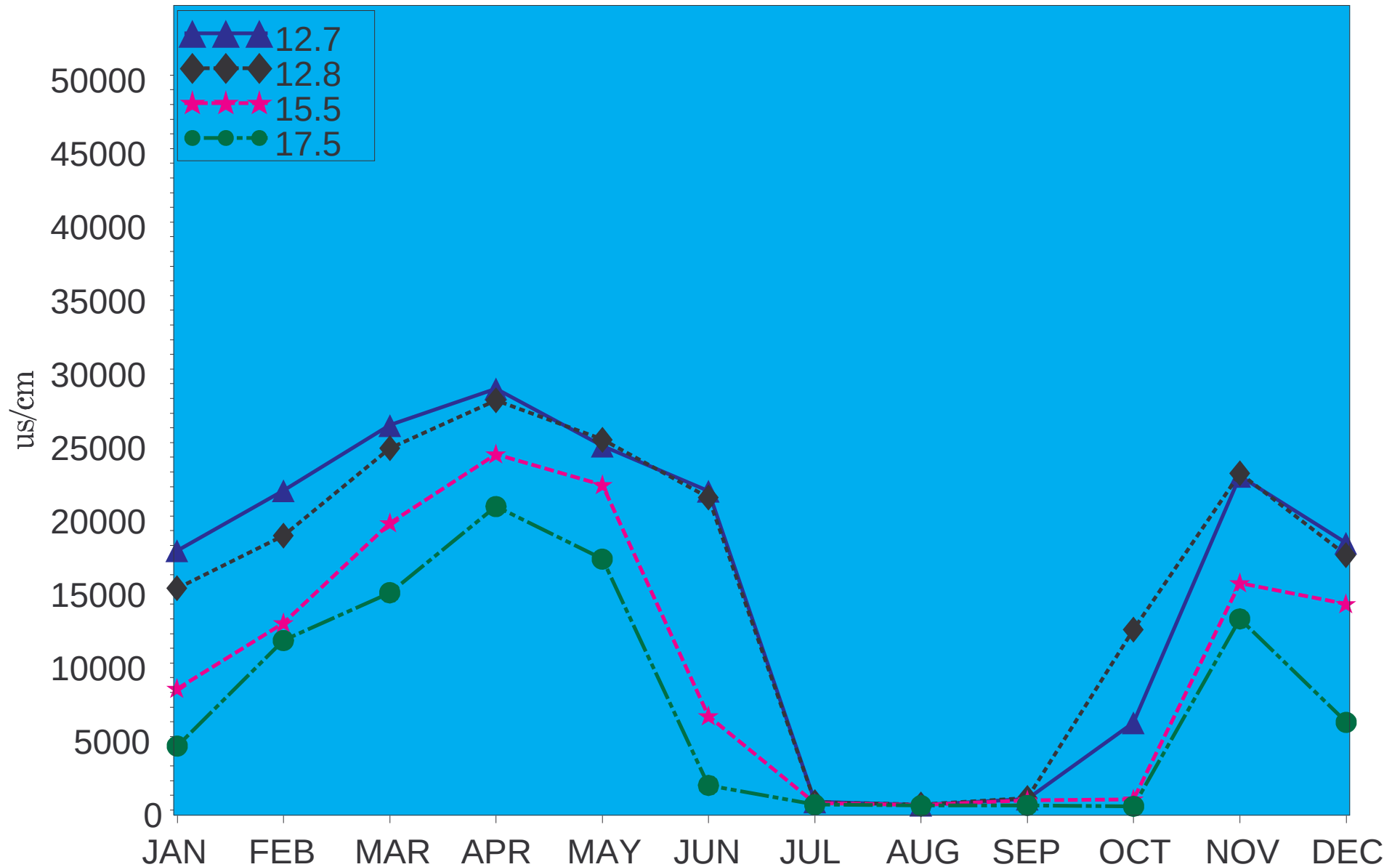


Figure 4.6b 1999 Specific Conductance at 4 of the 17 fixed sampling stations.

# HBMP 1999 Specific Conductance

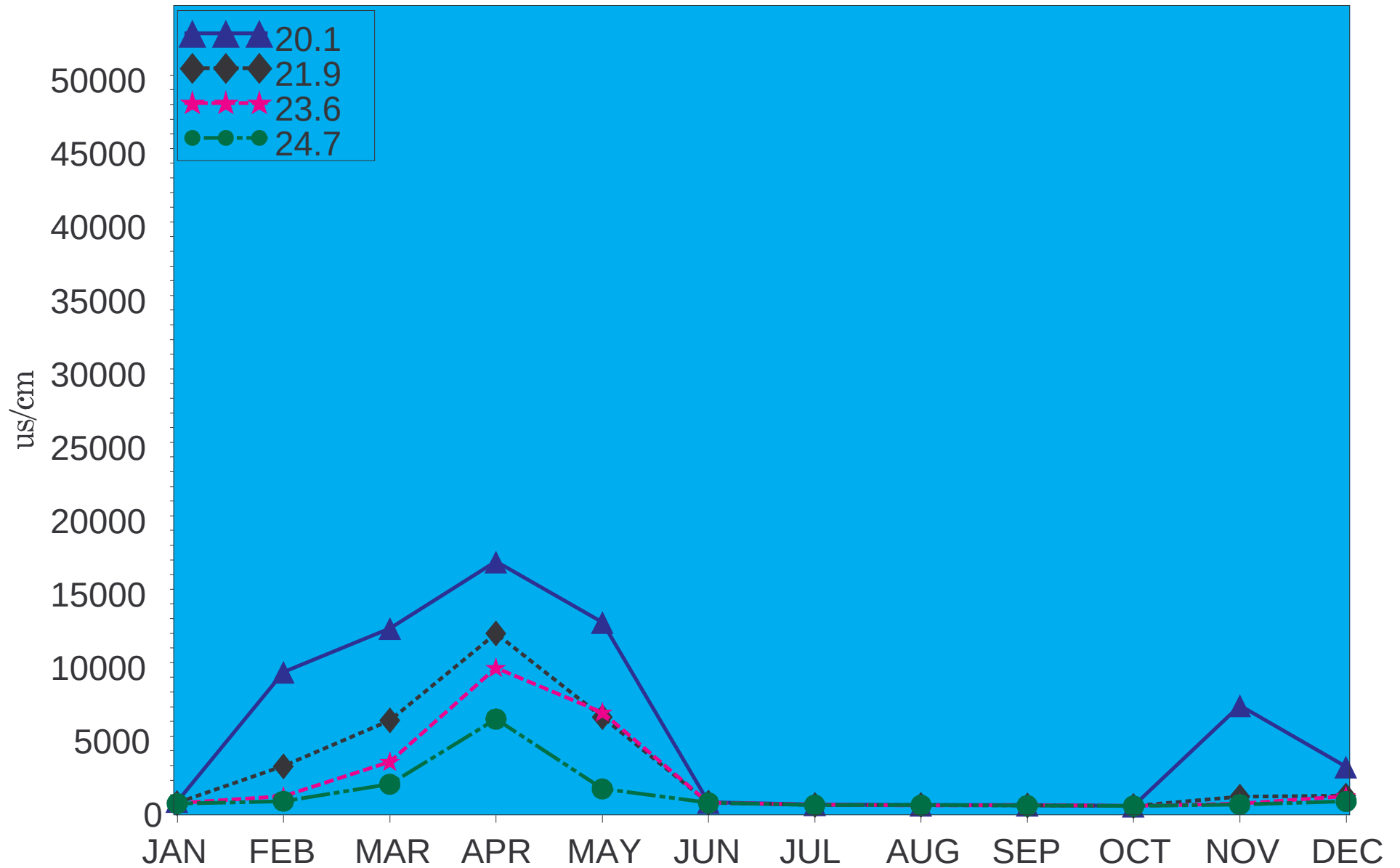


Figure 4.6c 1999 Specific Conductance at 4 of the 17 fixed sampling stations.

# HBMP 1999 Specific Conductance

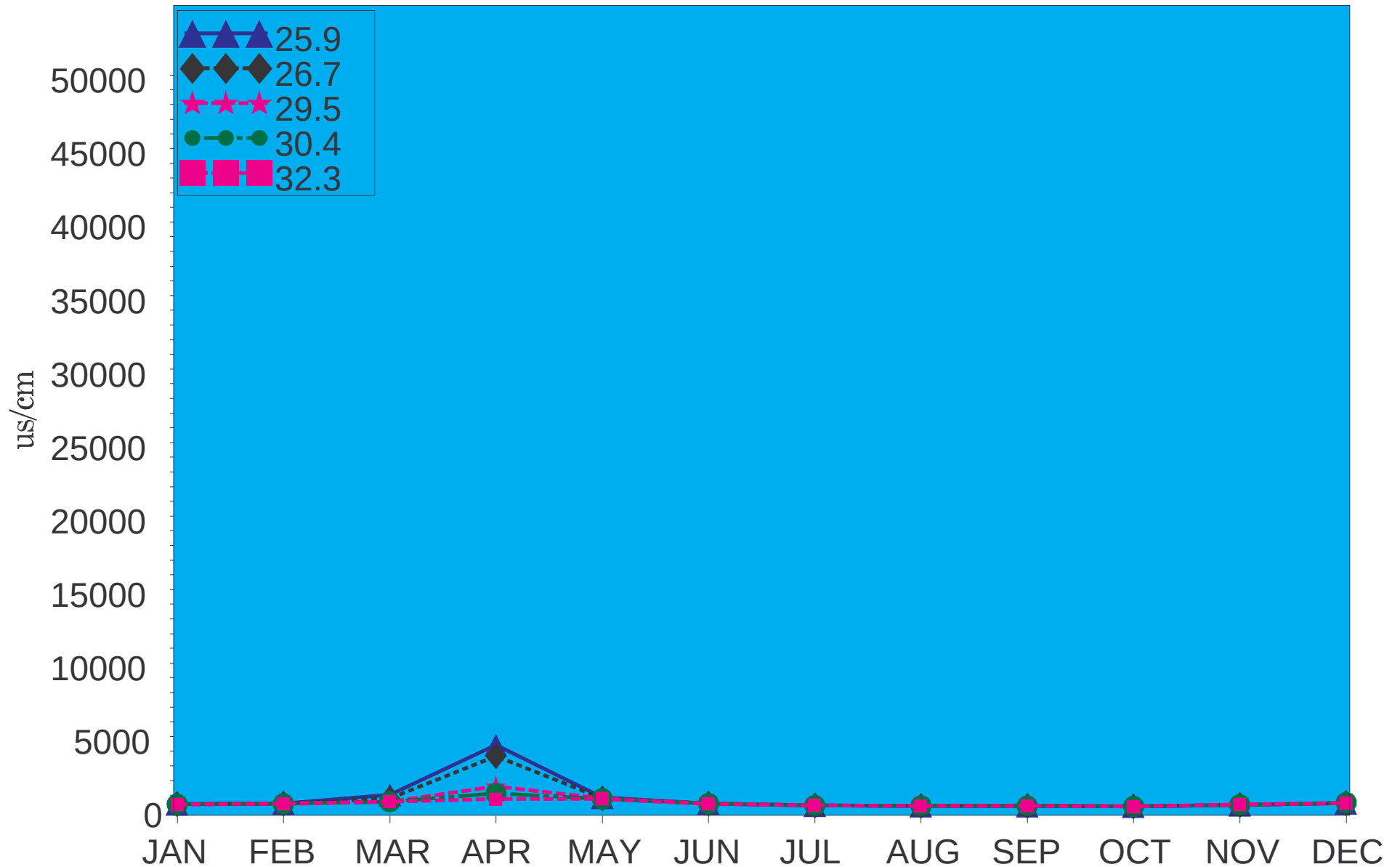


Figure 4.6d 1999 Specific Conductance at 5 of the 17 fixed sampling stations.

# HBMP 1999 Turbidity

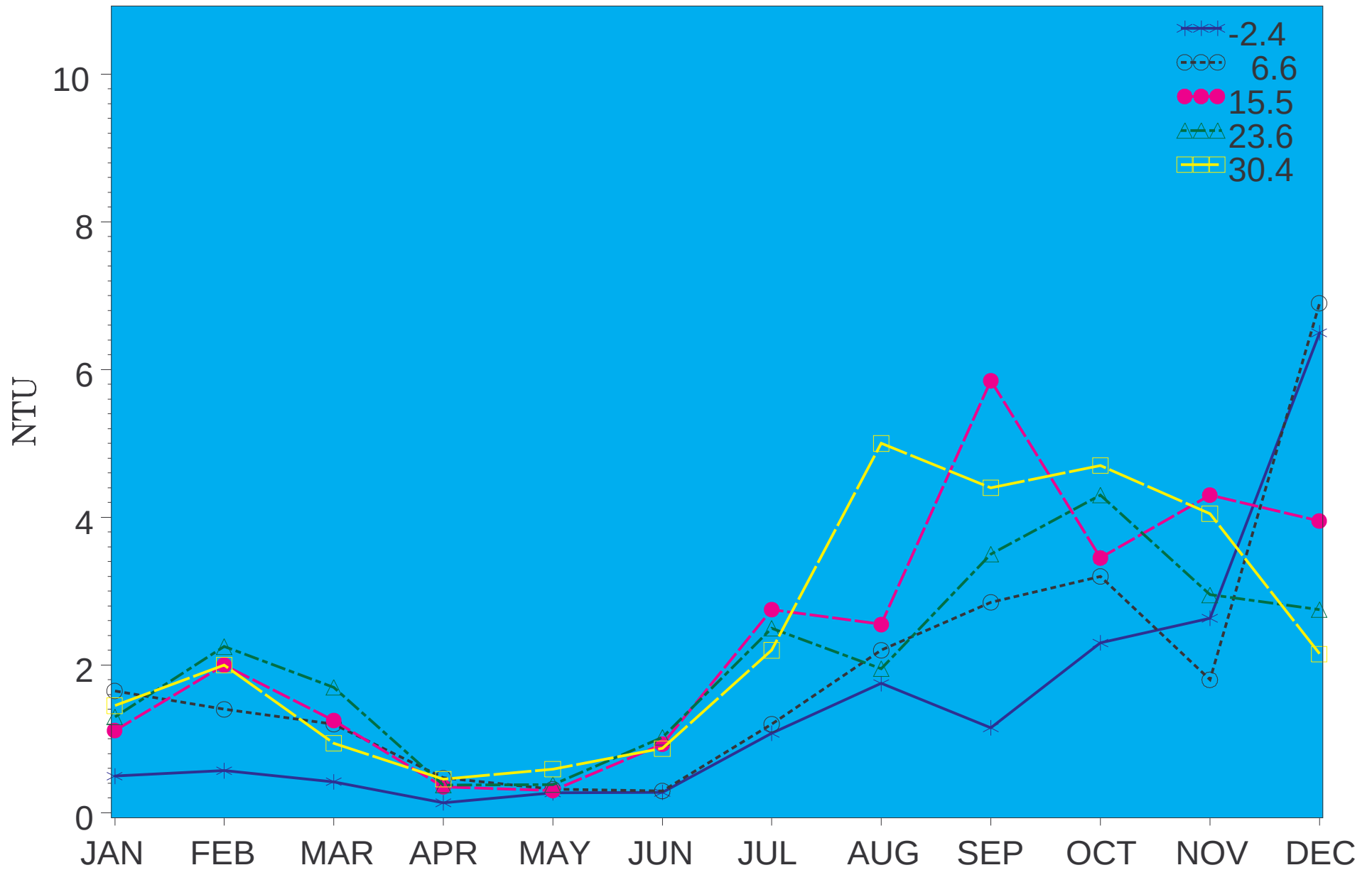


Figure 4.7 1999 Turbidity at fixed sampling stations.

# HBMP 1999 Color

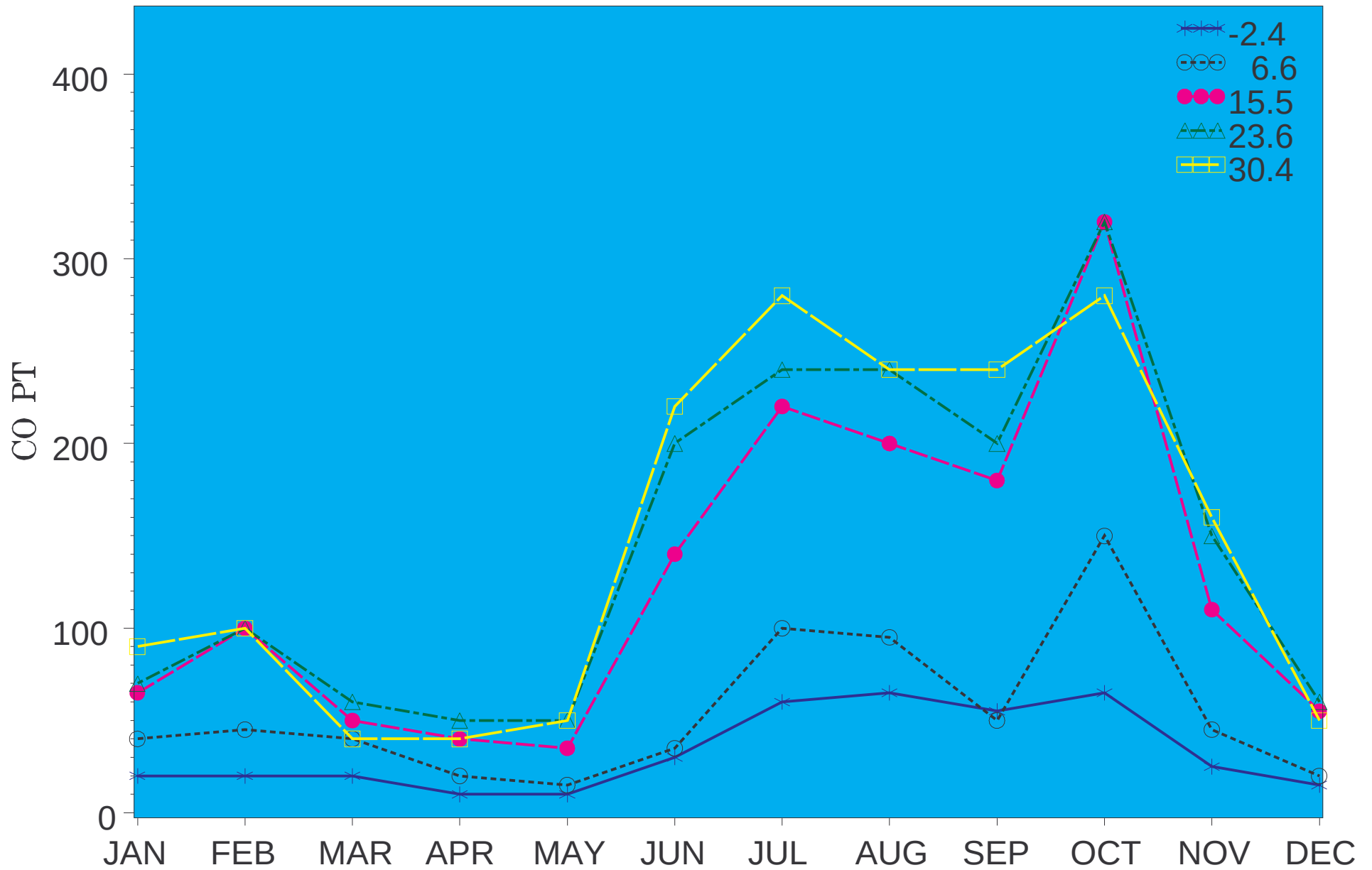


Figure 4.8 1999 Color at fixed sampling stations.



# HBMP 1999 Total Suspended Solids

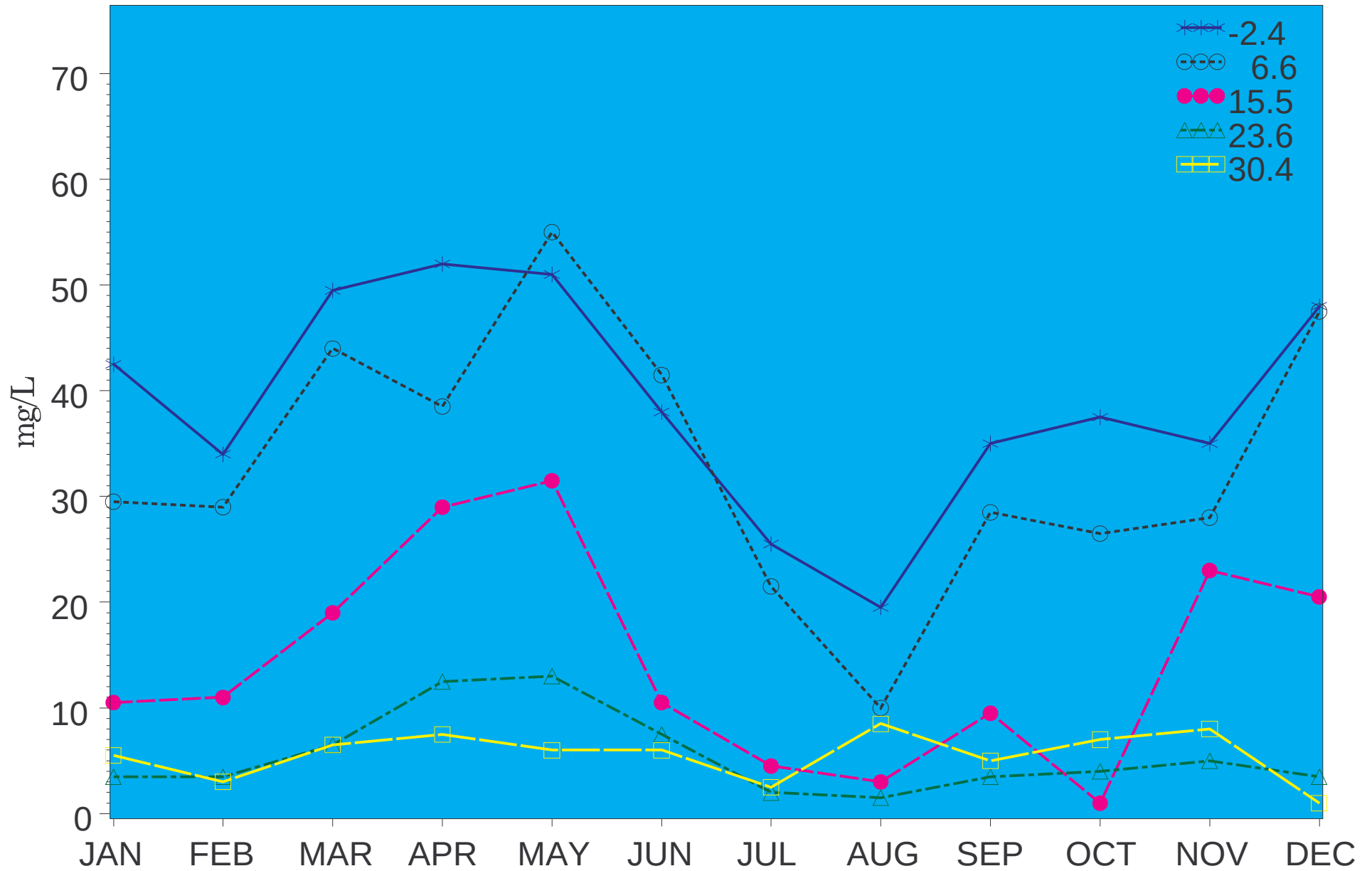


Figure 4.9 1999 Total Suspended Solids at fixed sampling stations.

# HBMP 1999 NO<sub>2</sub>-NO<sub>3</sub>

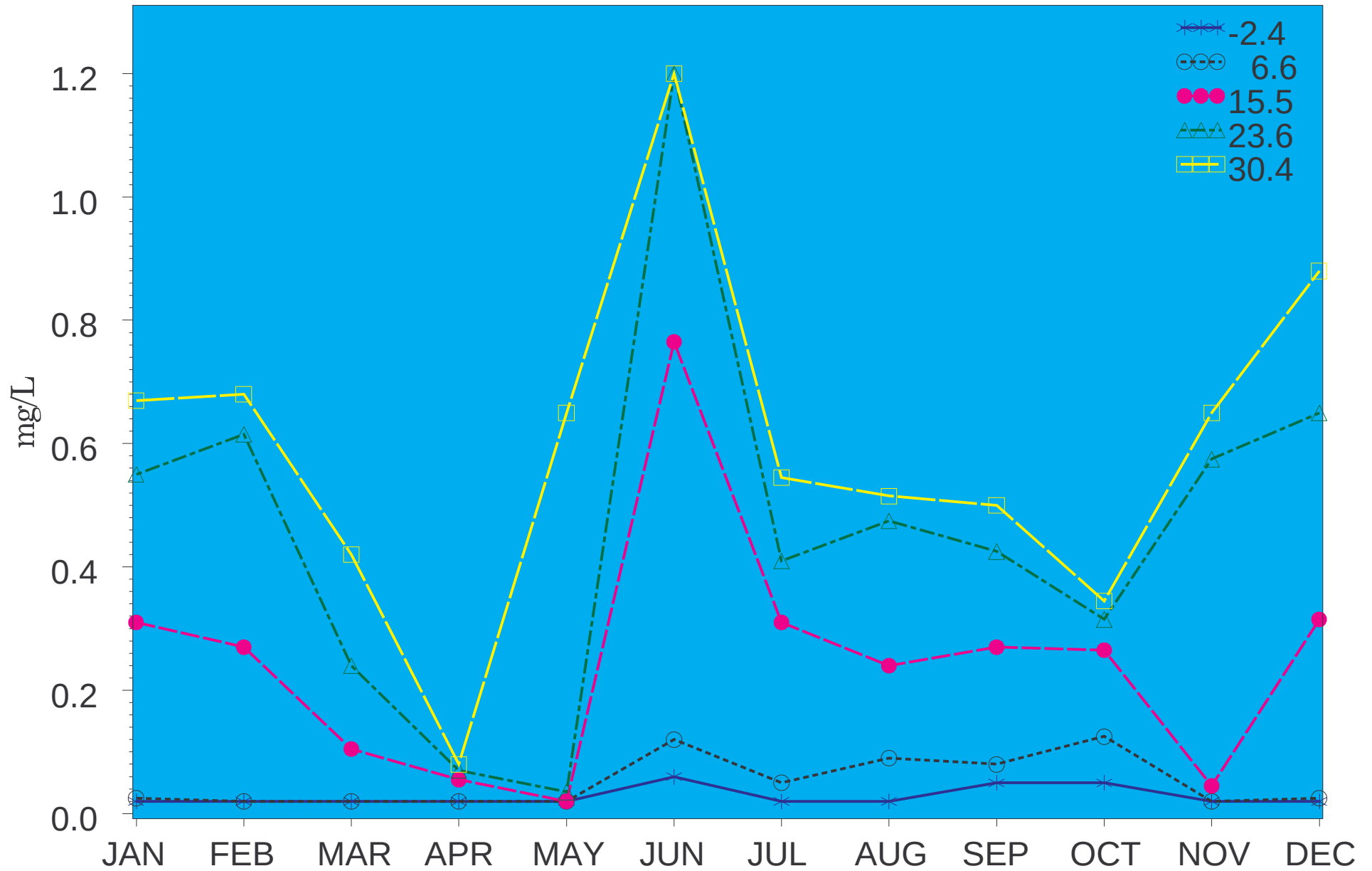


Figure 4.10 1999 Nitrite/Nitrate at fixed sampling stations.

# HBMP 1999 Dissolved Chloride

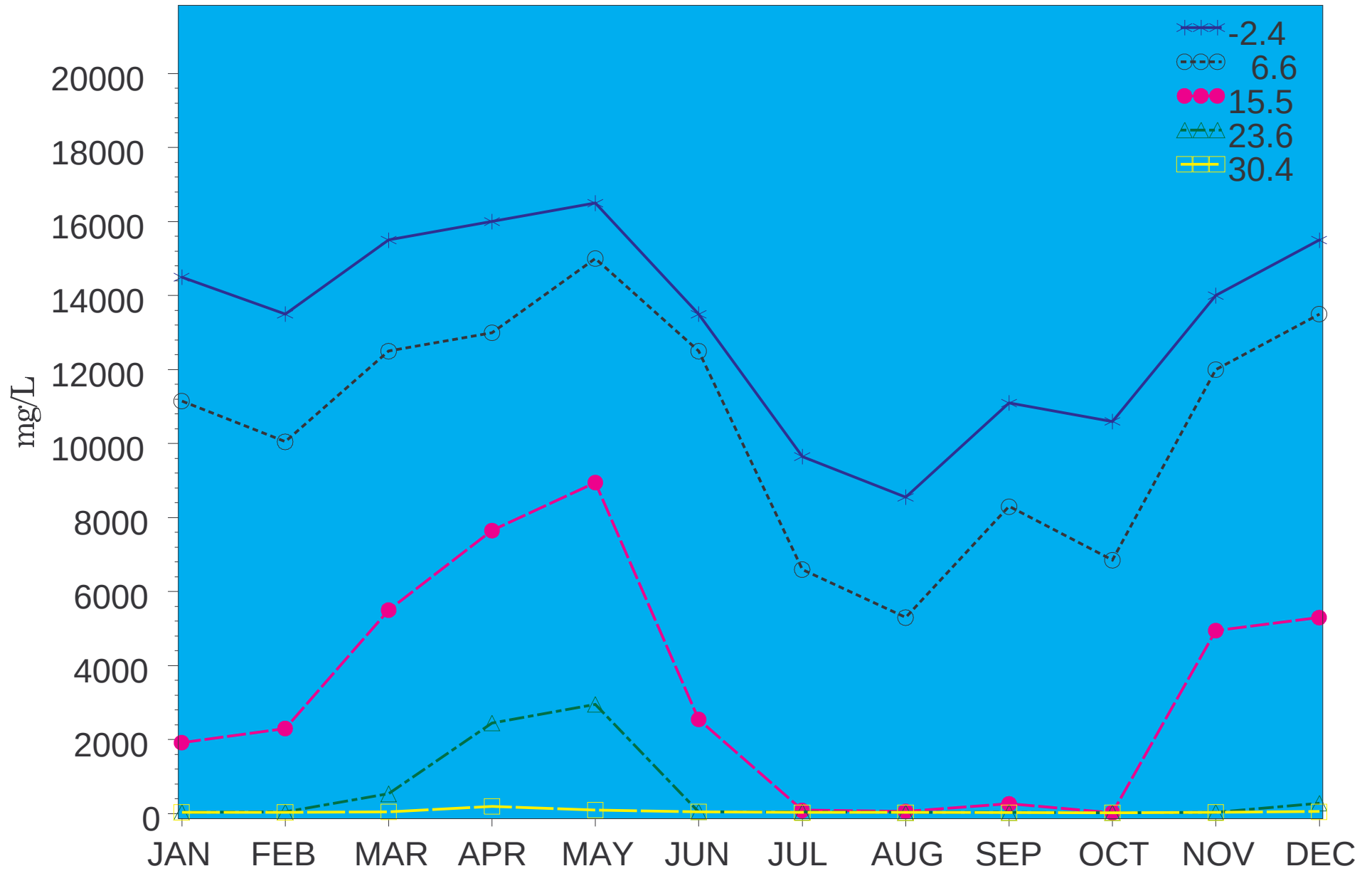


Figure 4.11 1999 Dissolved Chloride at fixed sampling stations.

# HBMP 1999 Silica

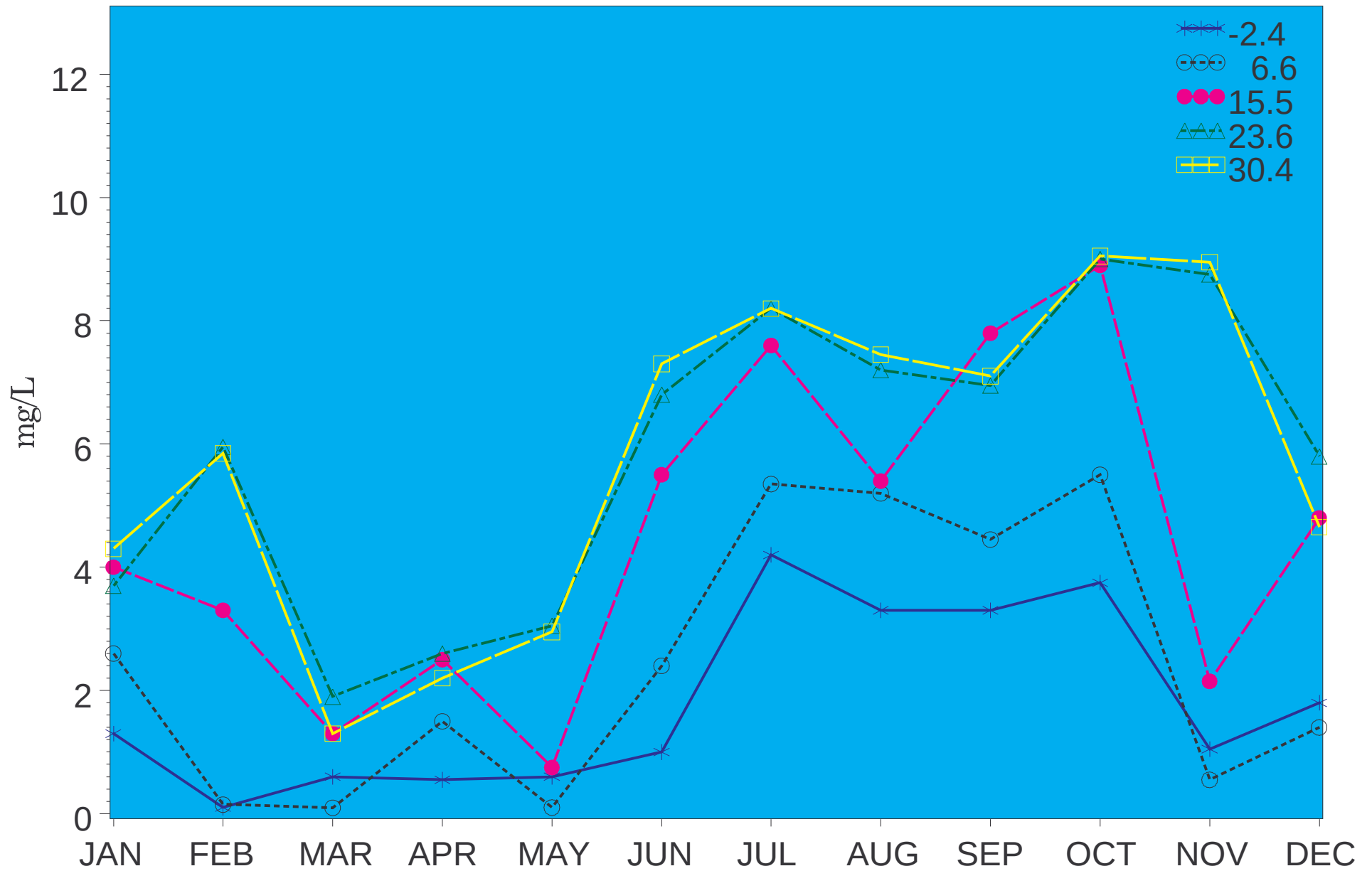


Figure 4.12 1999 Silica at fixed sampling stations.

# HBMP 1999 Ortho-Phosphorus

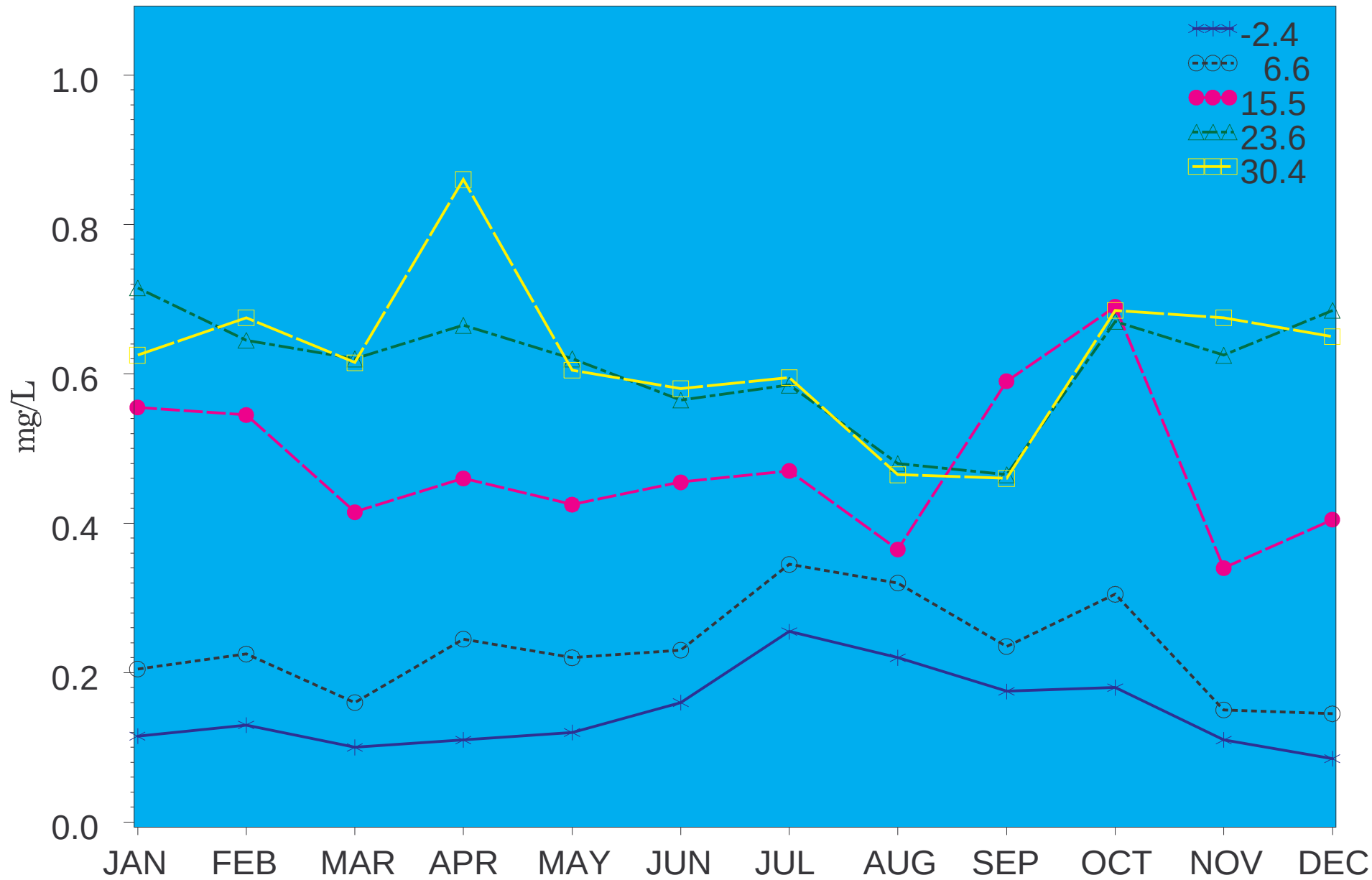


Figure 4.13 1999 Ortho-phosphorus at fixed sampling stations.

# HBMP 1999 Specific Conductance

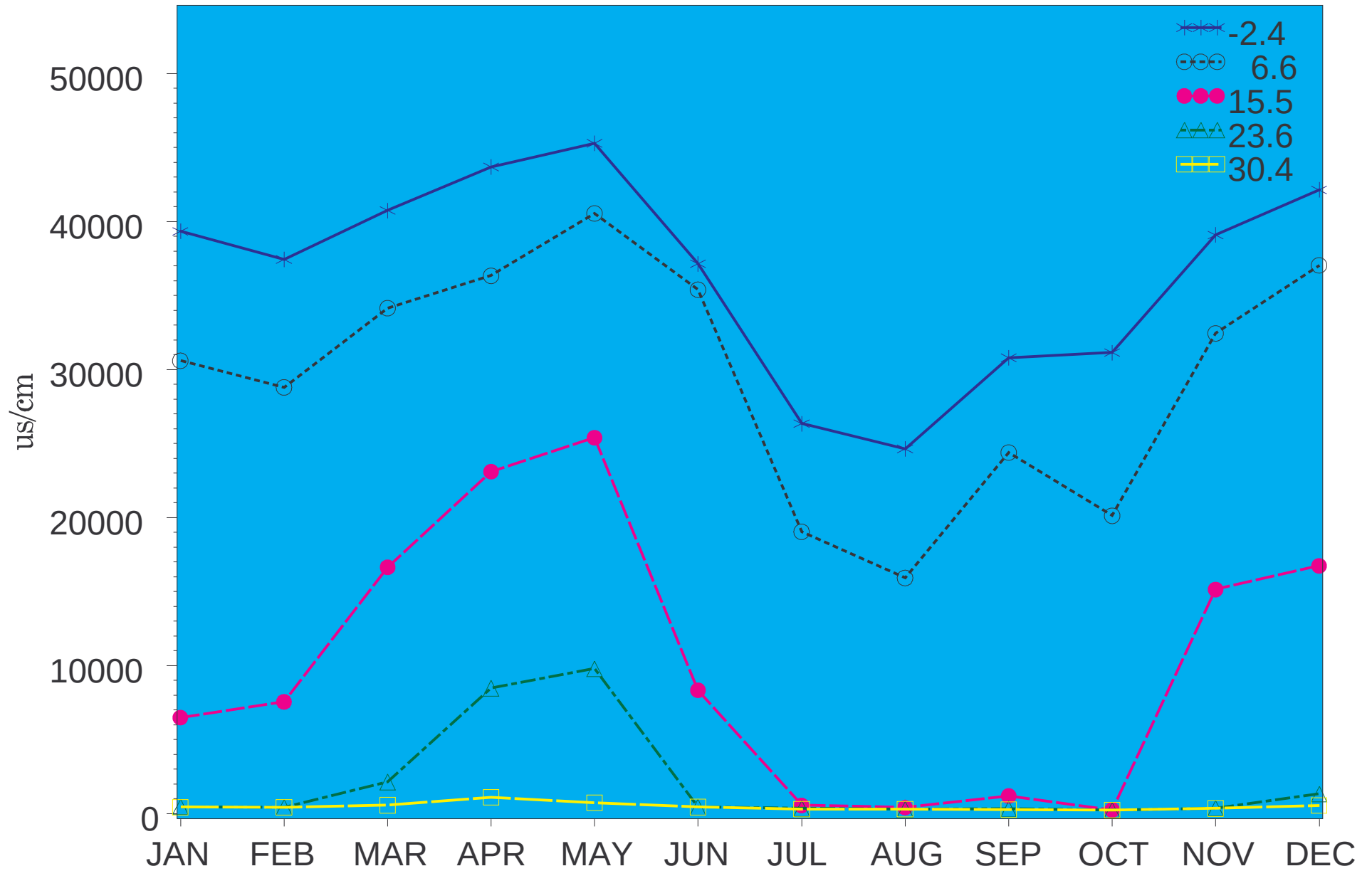


Figure 4.14 1999 Specific Conductance at fixed sampling stations.

# HBMP 1999 Lab Alkalinity

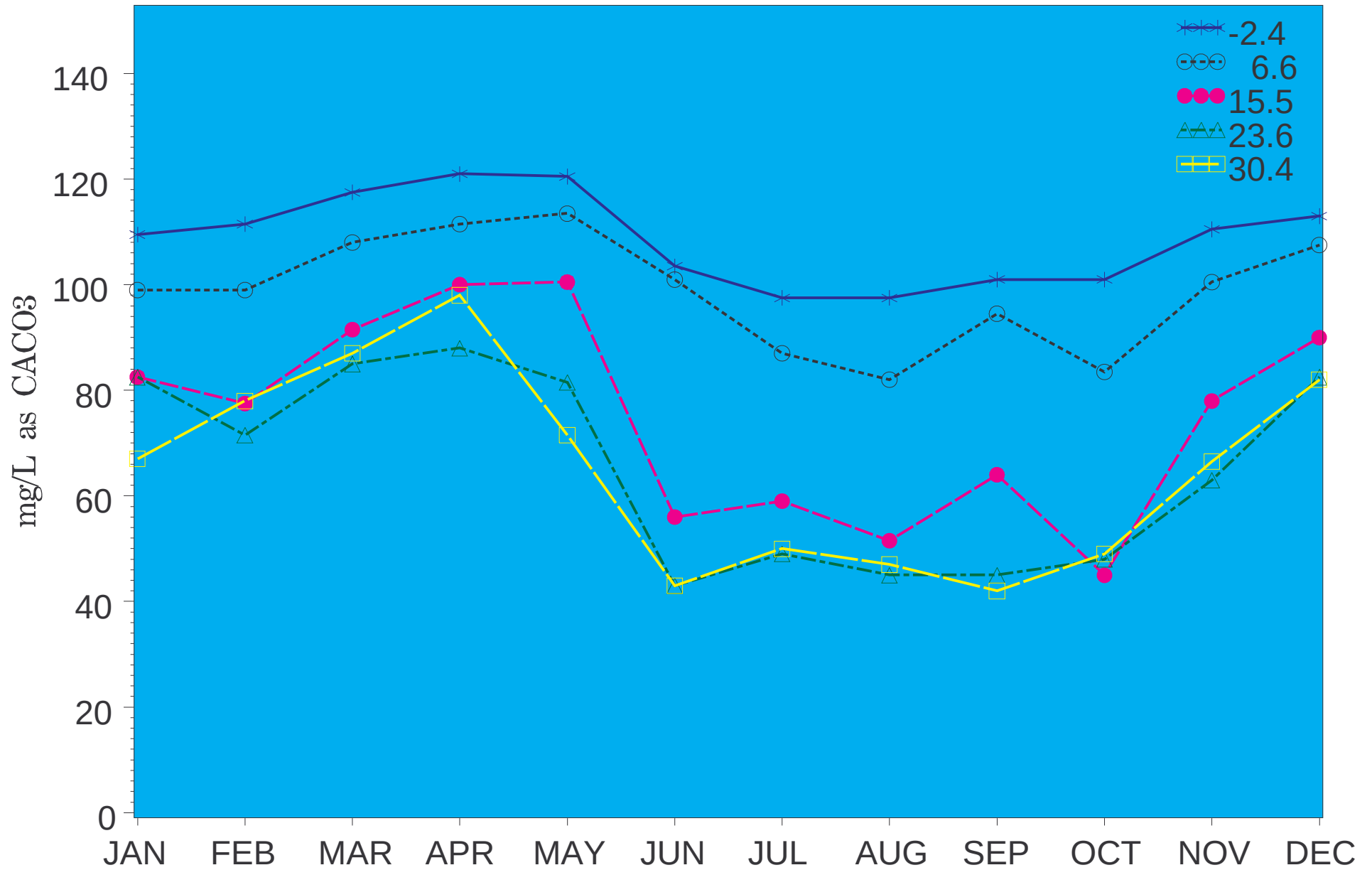


Figure 4.15 1999 Alkalinity at fixed sampling stations.

HBMP 1999  
Chlorophyll a

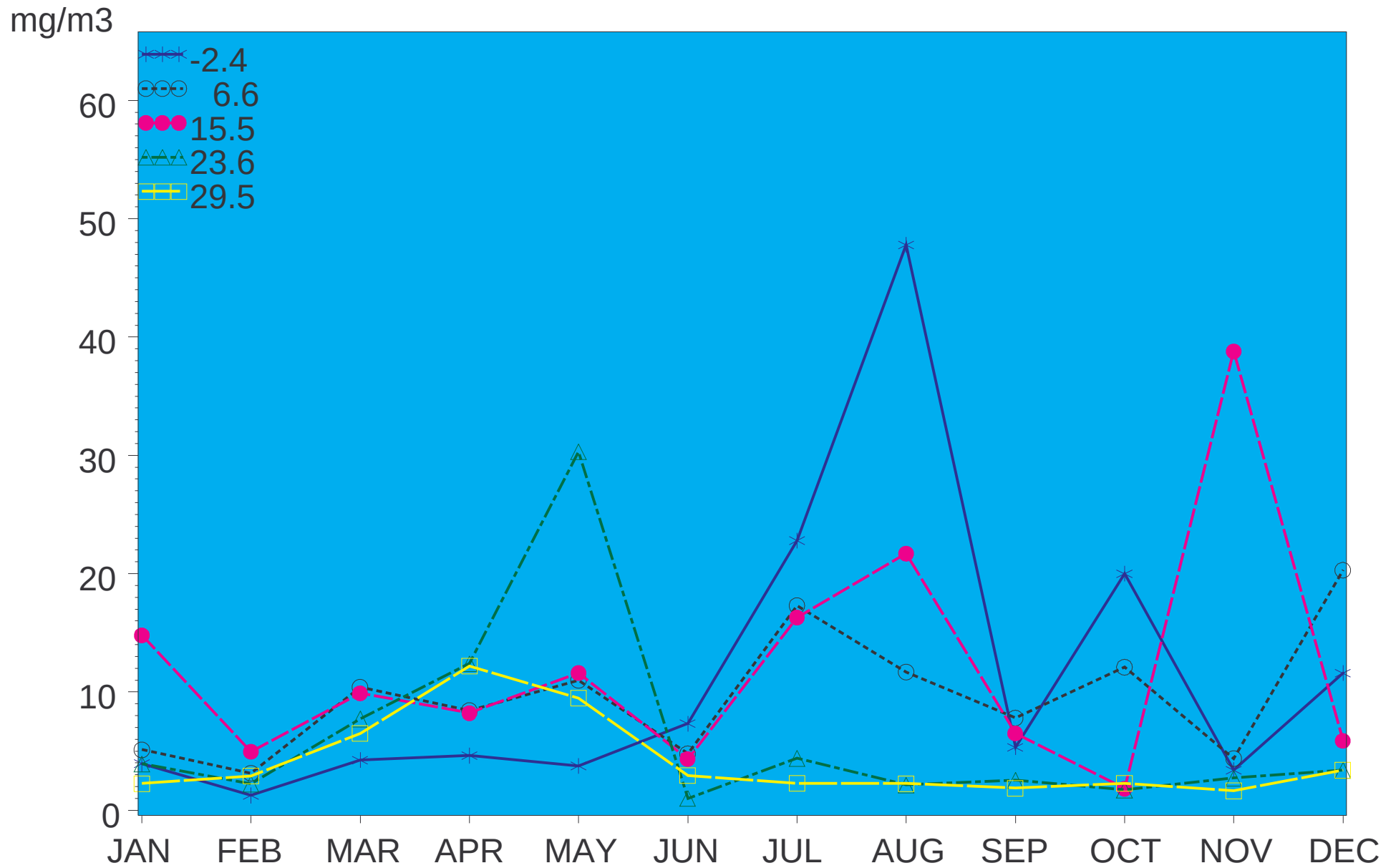


Figure 4.16 1999 Surface chlorophyll a (mg/m<sup>3</sup>) at fixed stations.



HBMP 1999  
Chlorophyll a

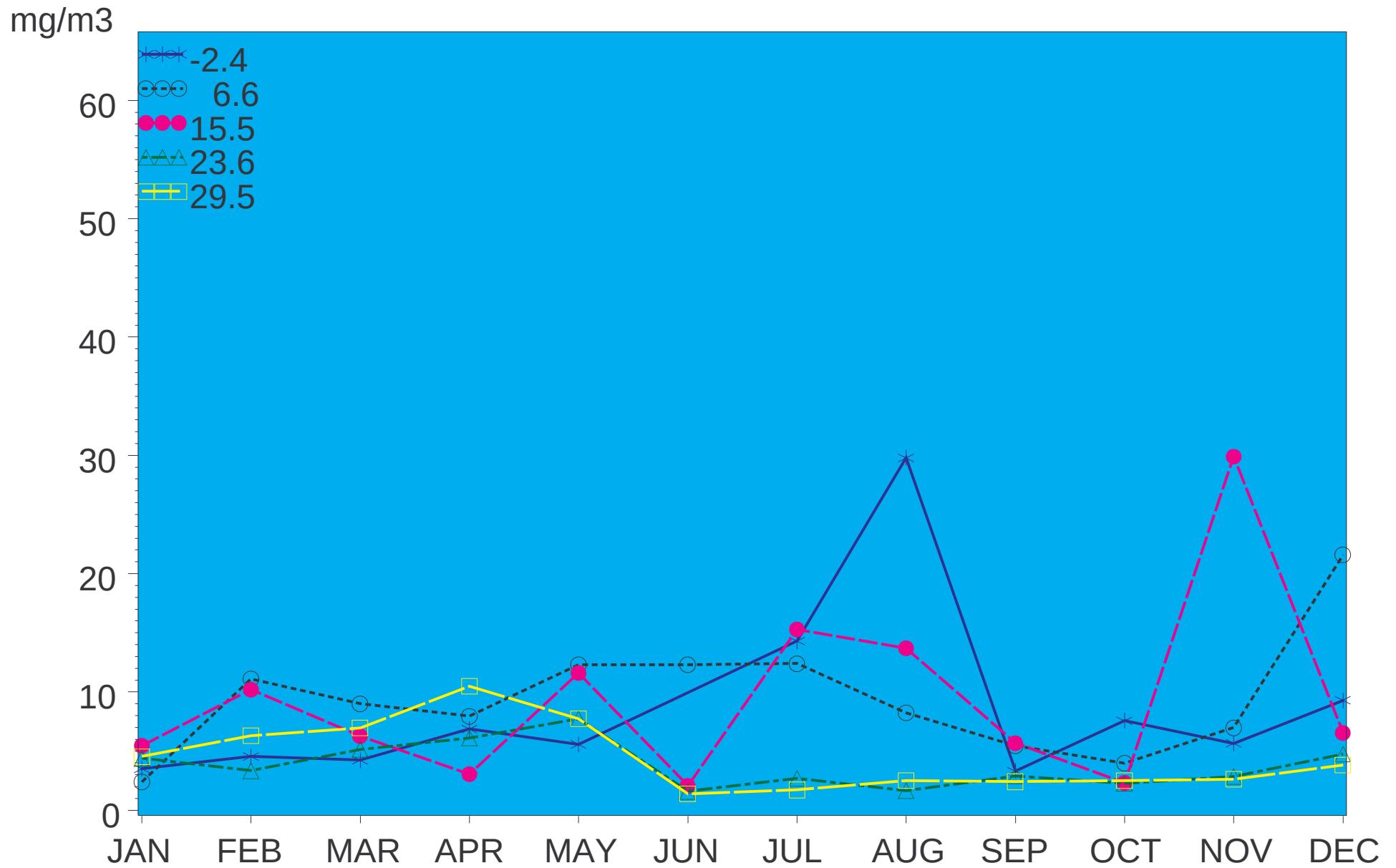


Figure 4.17 1999 Bottom chlorophyll a (mg/m<sup>3</sup>) at fixed stations.

HBMP 1999  
Peace River @ Harbour Heights Gage Height

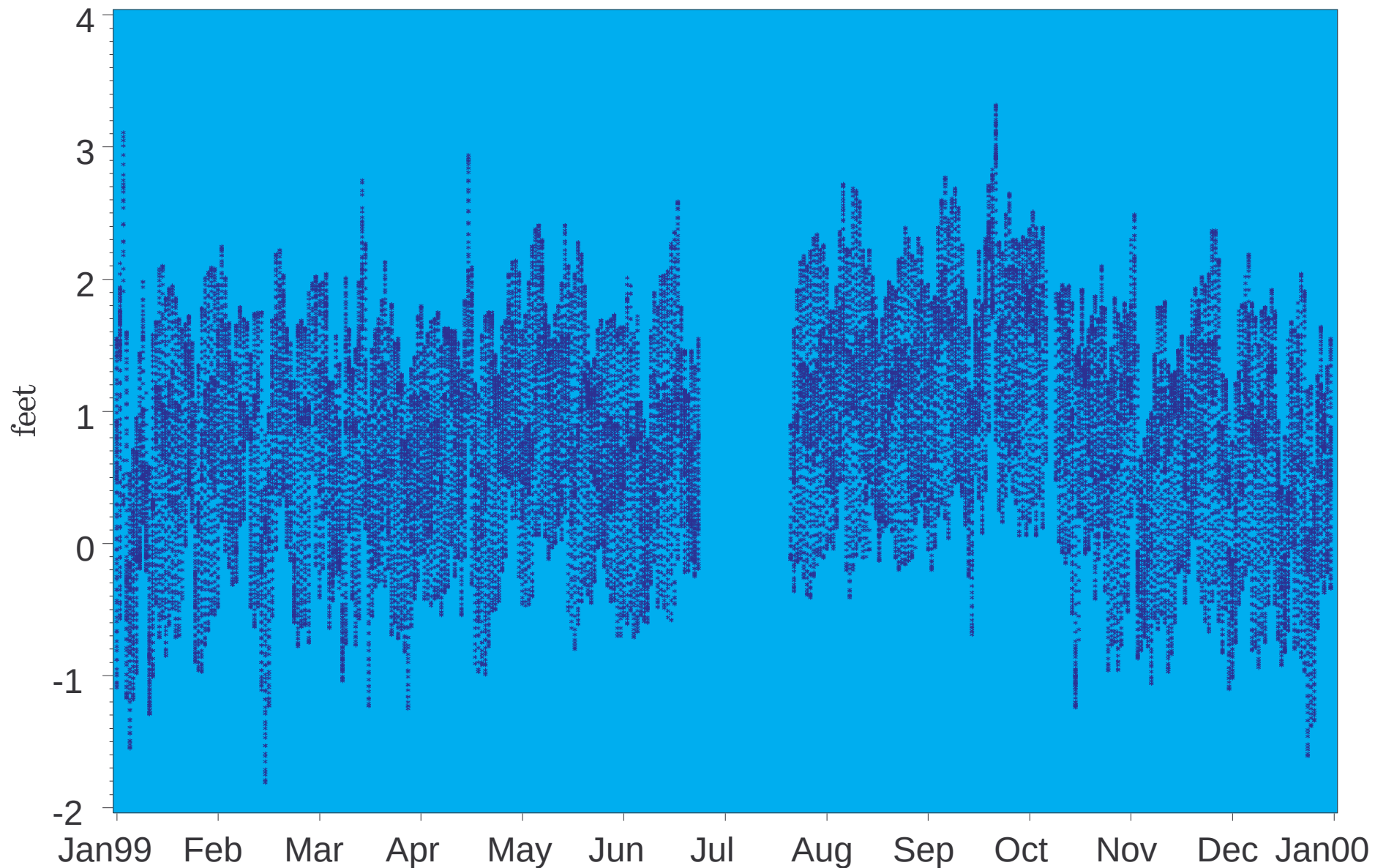


Figure 4.18 Gage height (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

HBMP 1999  
Peace River @ Harbour Heights Surface Conductivity

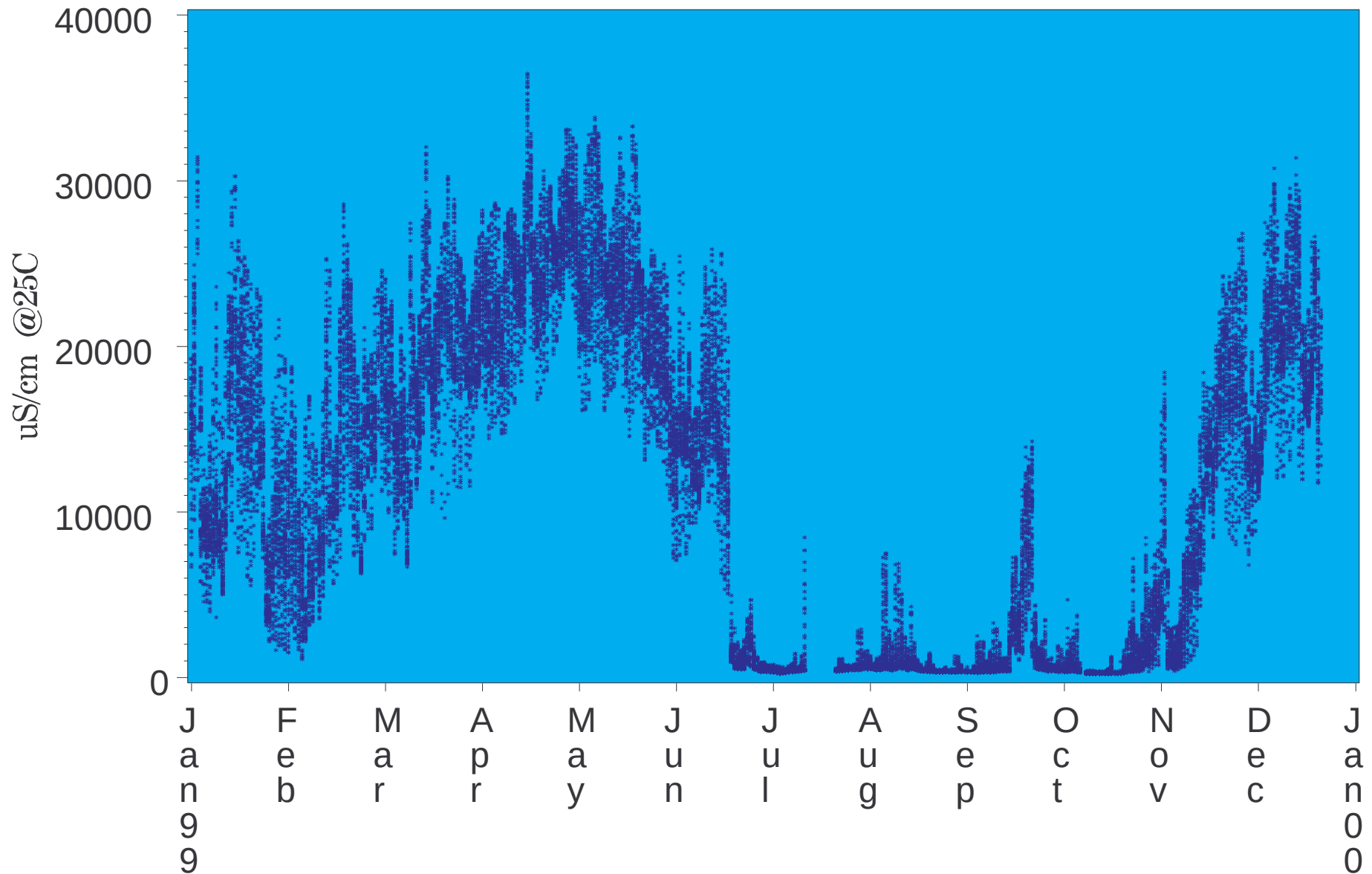


Figure 4.19 Surface conductivity (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

HBMP 1999  
Peace River @ Harbour Heights Bottom Conductivity

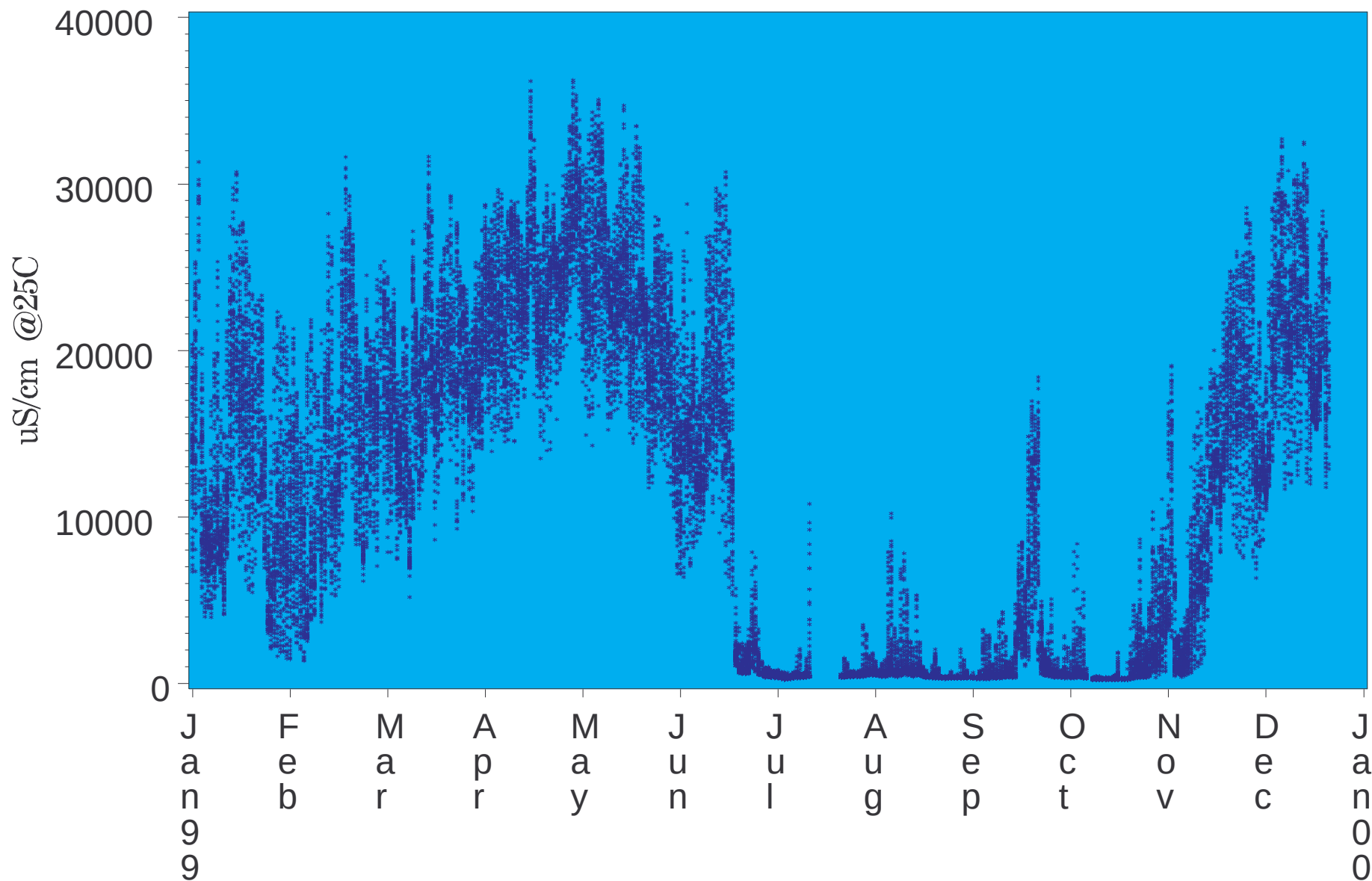


Figure 4.20 Bottom conductivity (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

HBMP 1999  
Peace River @ Harbour Heights Surface Temperature

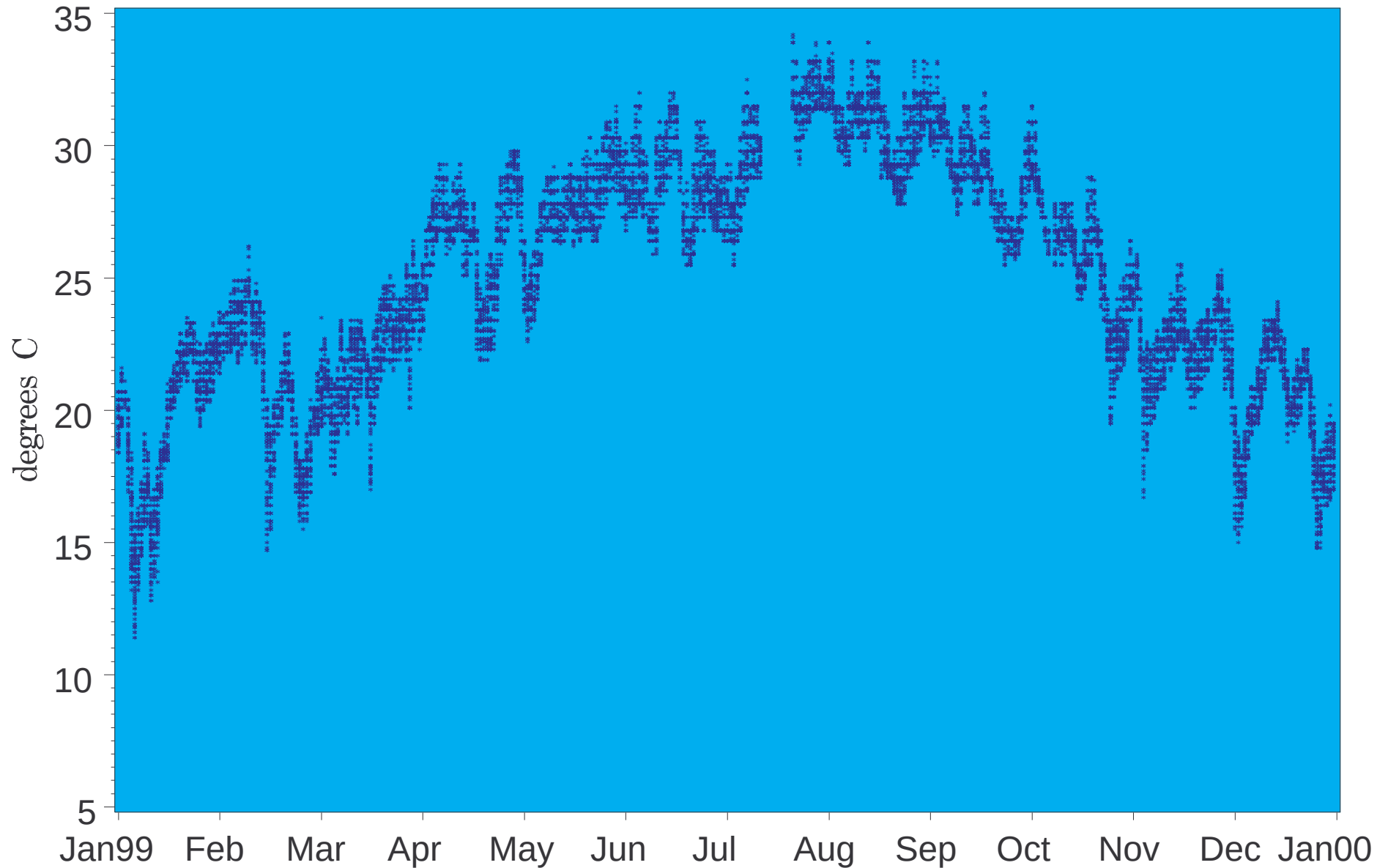


Figure 4.21 Surface temperature (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).



HBMP 1999  
Peace River @ Harbour Heights Bottom Temperature

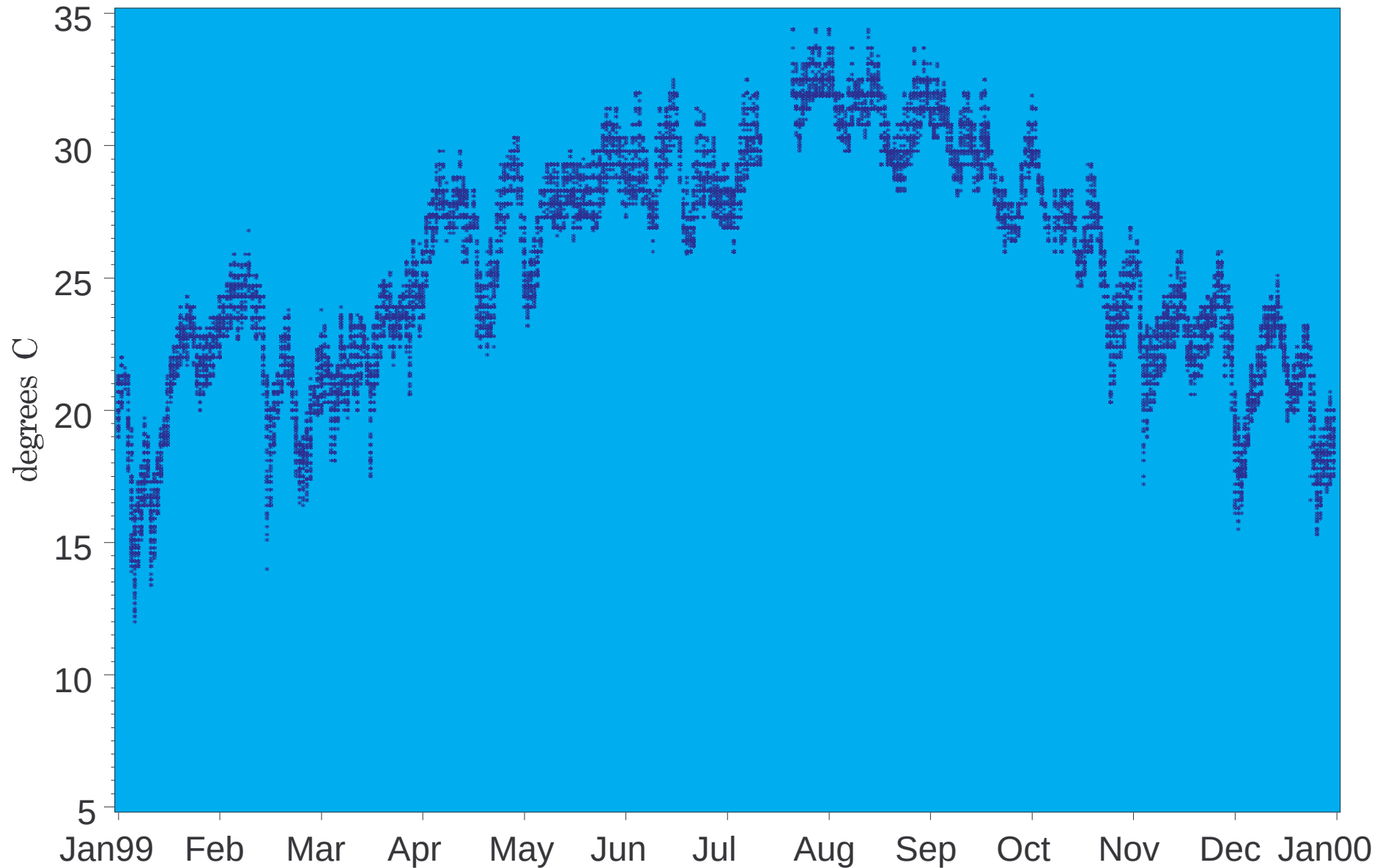


Figure 4.22 Bottom temperature (15-min intervals) for Peace River fixed station 02297460 (River Kilometer=15.5).

HBMP 1999  
Peace River @ Peace River Heights Gage Height

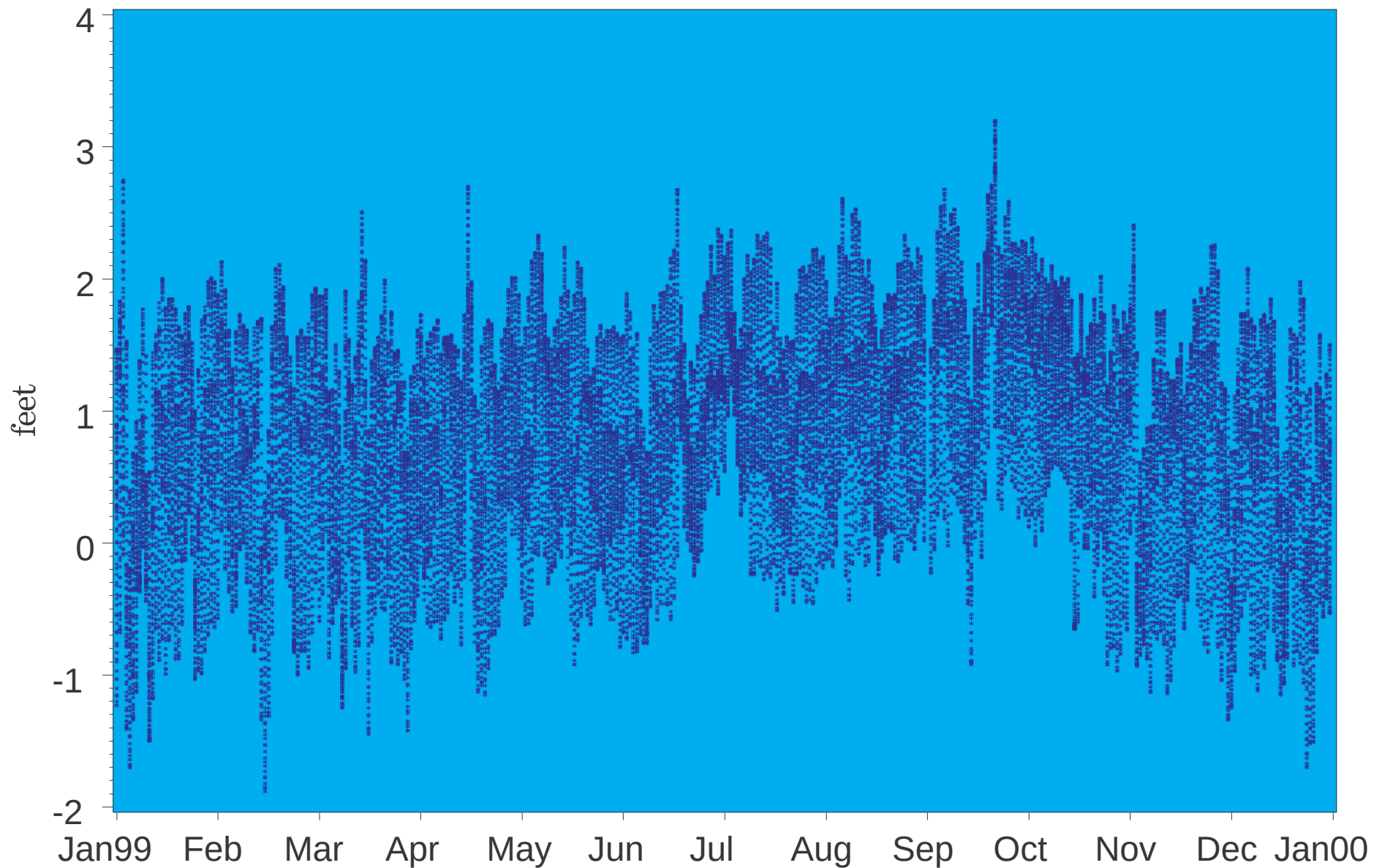


Figure 4.23 Gage height (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

HBMP 1999  
Peace River @ Peace River Heights Surface Conductivity

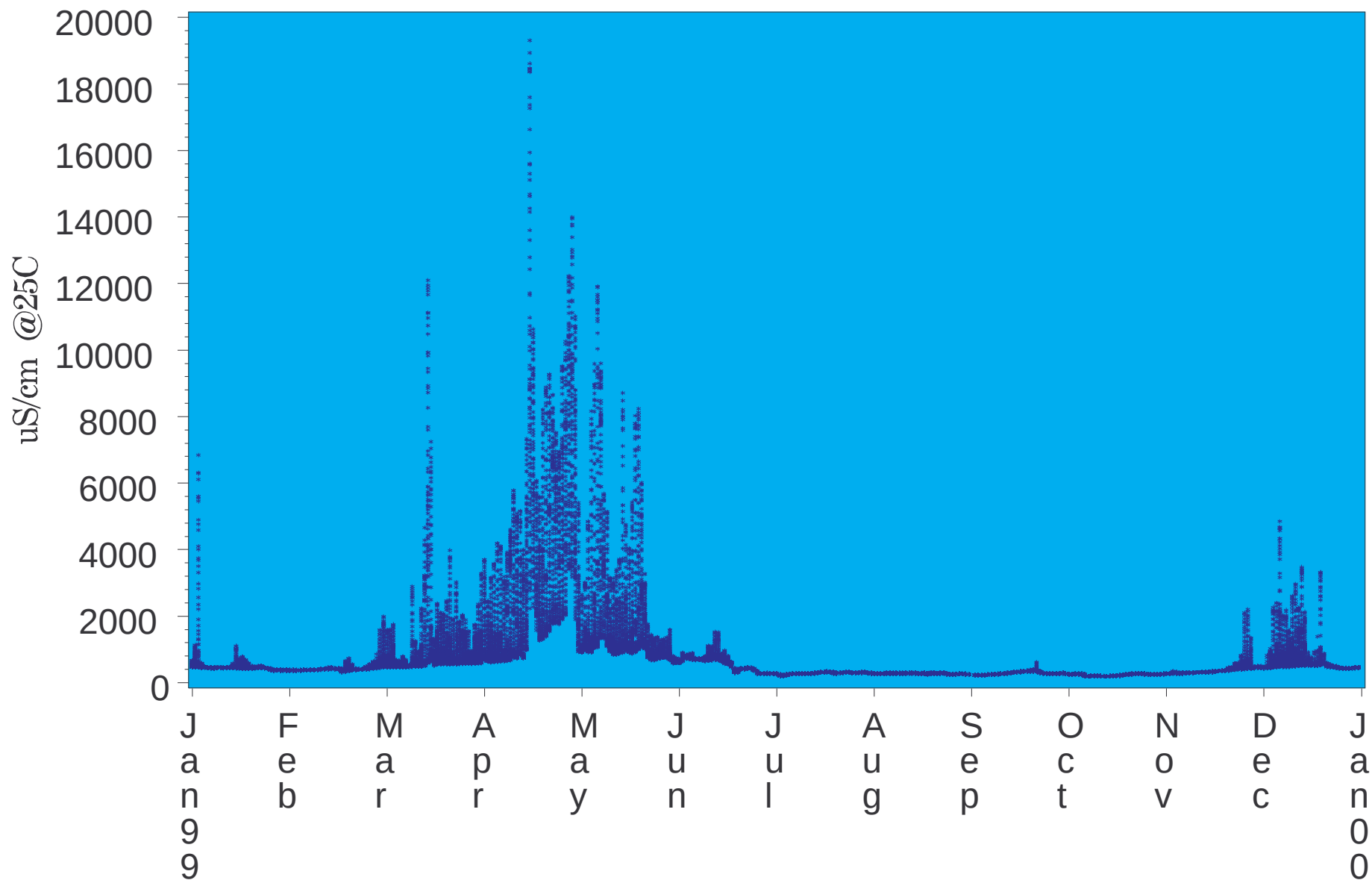


Figure 4.24 Surface conductivity (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).



HBMP 1999  
Peace River @ Peace River Heights Bottom Conductivity

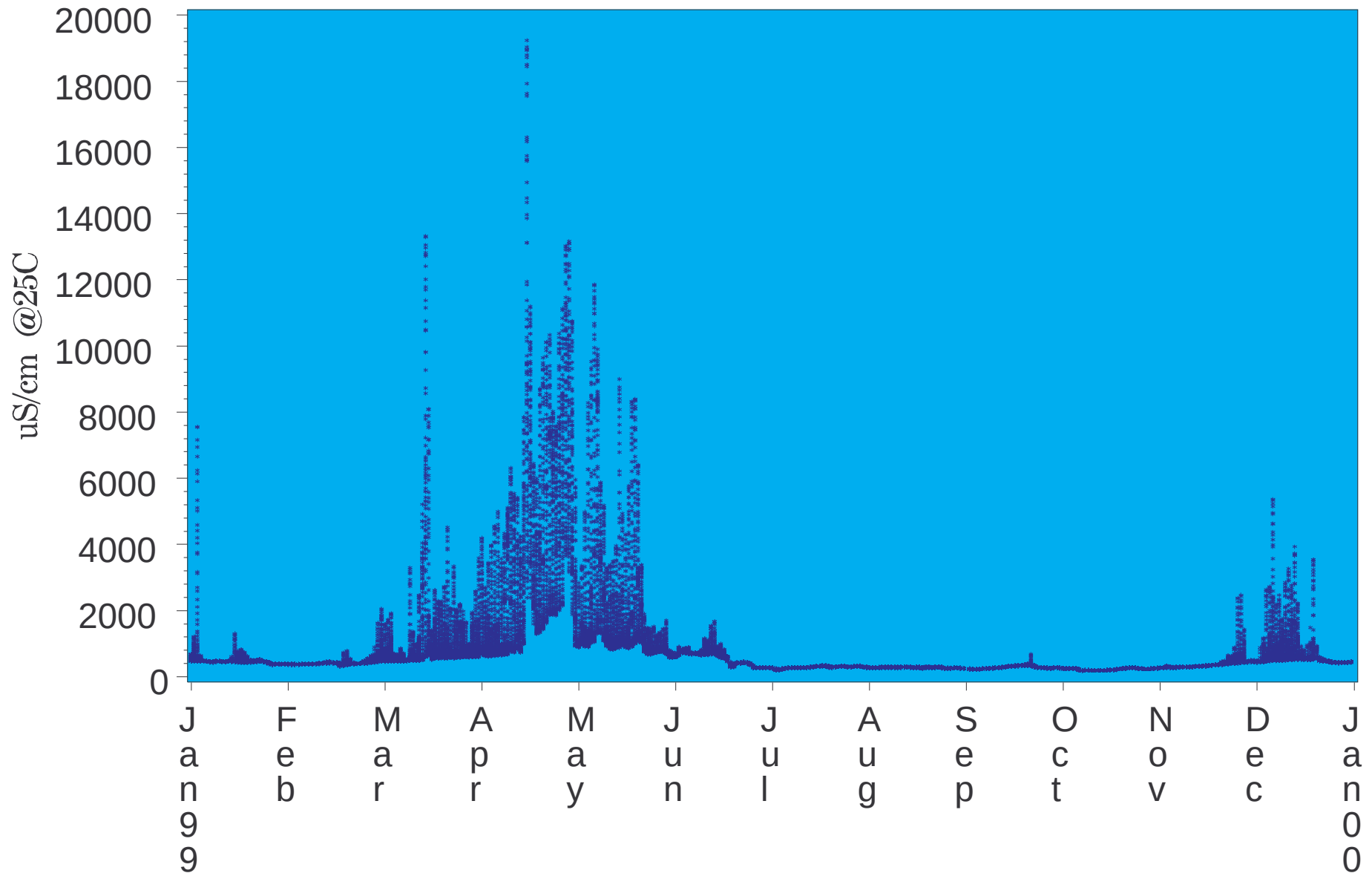


Figure 4.25 Bottom conductivity (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

HBMP 1999  
Peace River @ Peace River Heights Surface Temperature

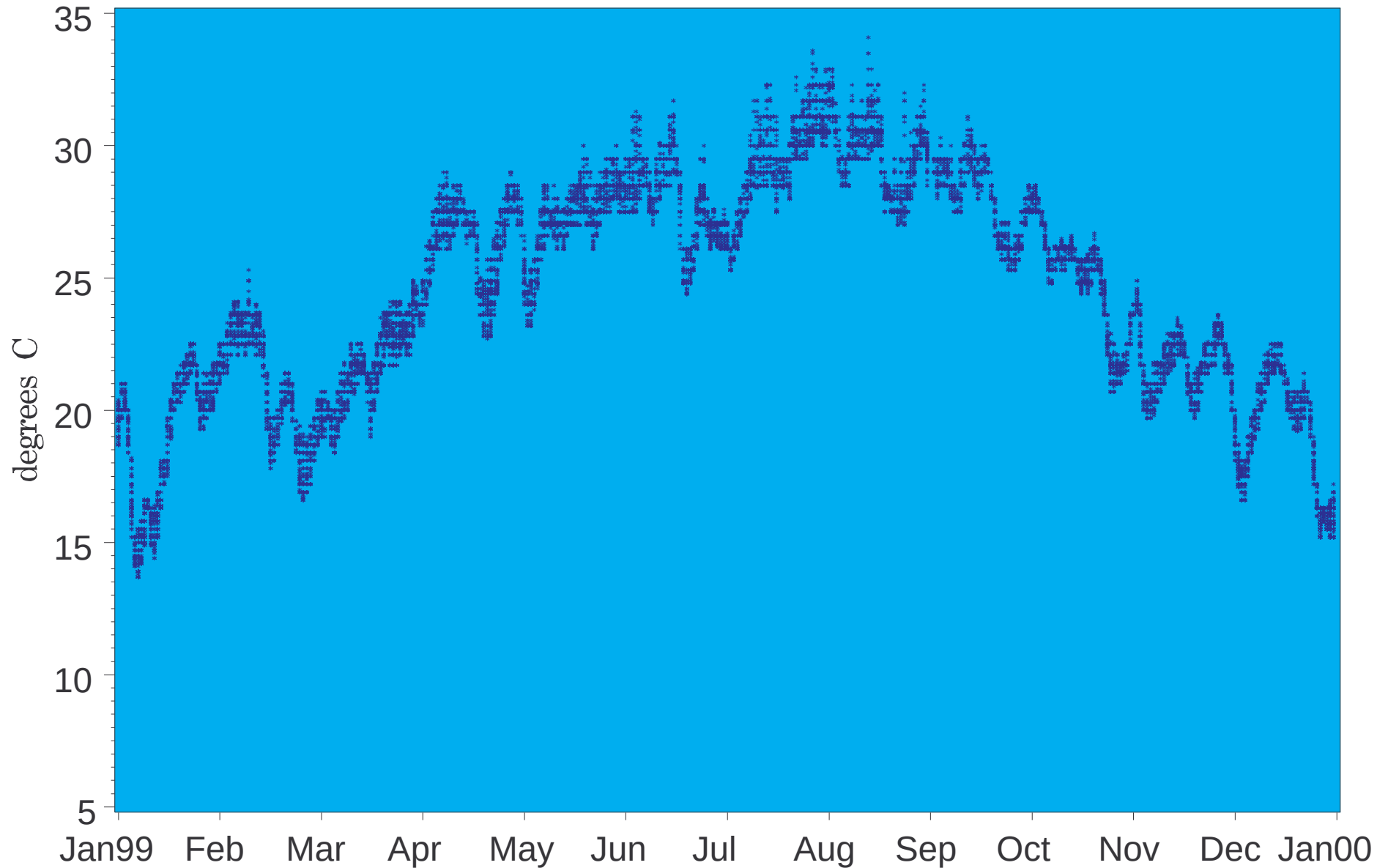


Figure 4.26 Surface temperature (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

HBMP 1999  
Peace River @ Peace River Heights Bottom Temperature

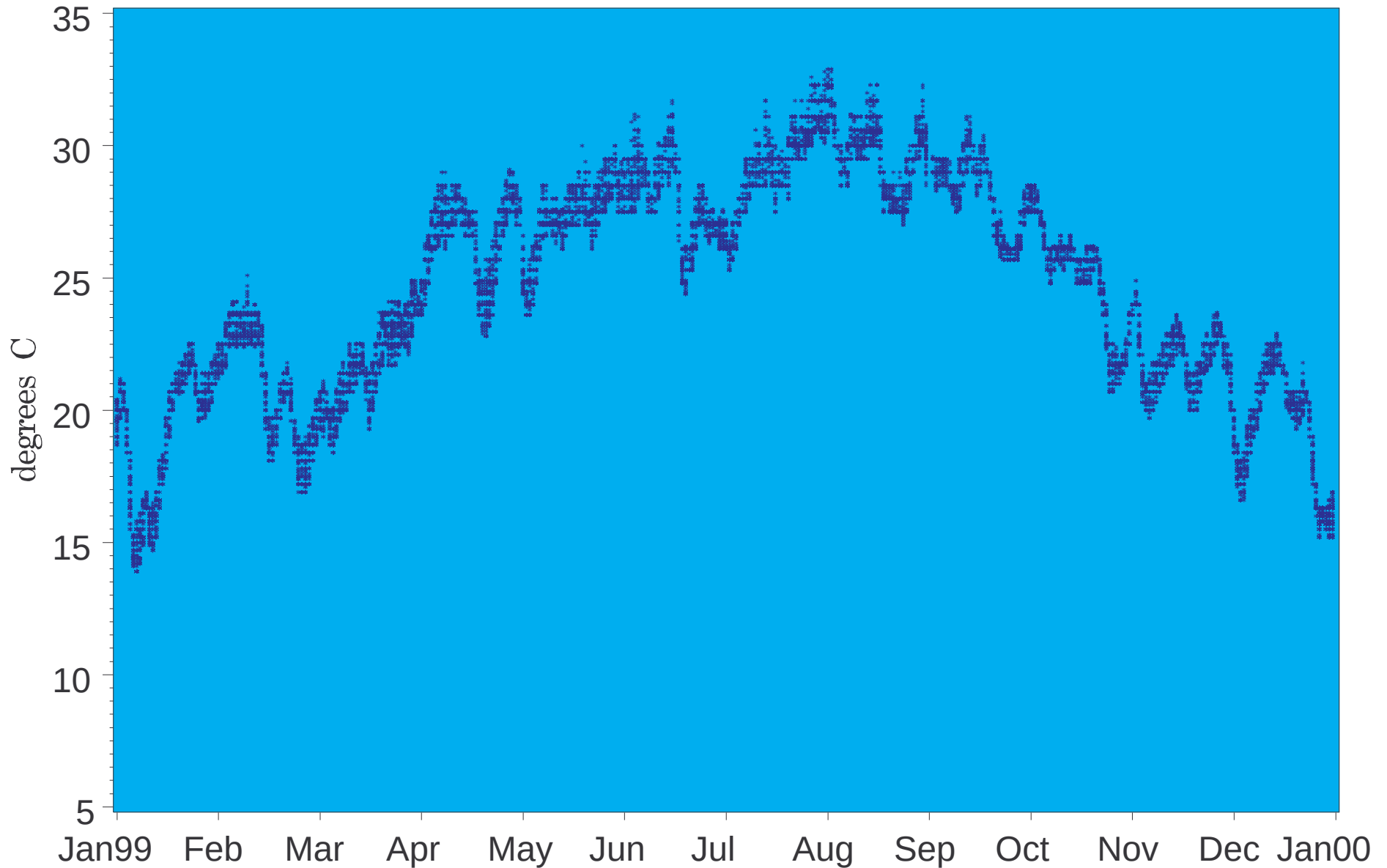


Figure 4.27 Bottom temperature (15-min intervals) for Peace River fixed station 02297350 (River Kilometer=26.7).

HBMP 1999  
Boca Grande Gage Height

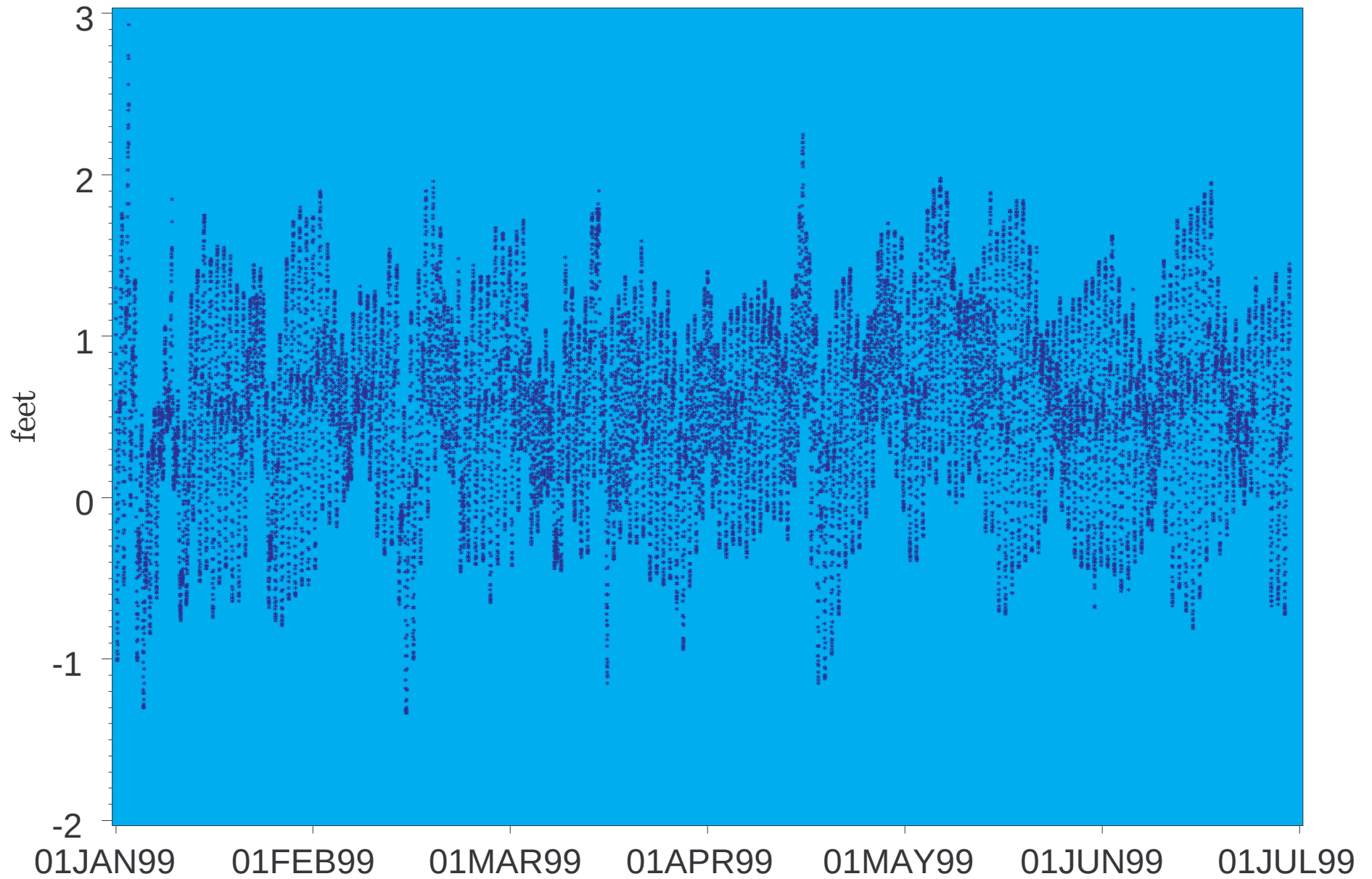


Figure 4.28a Gage Height (15-minute intervals) for Boca Grande.

# HBMP 1999 Boca Grande Gage Height

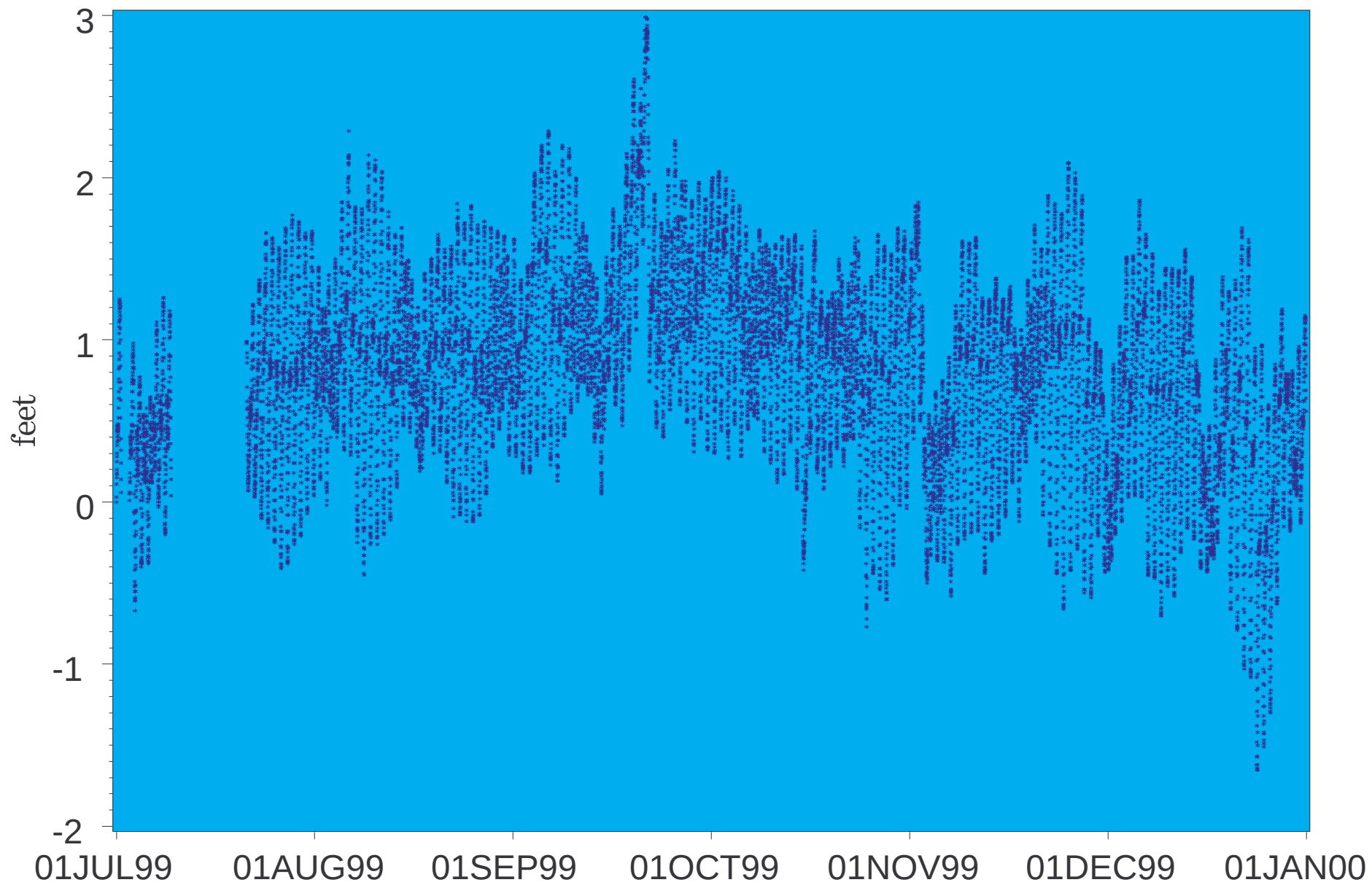


Figure 4.28b Gage Height (15-minute intervals) for Boca Grande.

HBMP 1999  
Peace River at Harbour Heights  
Gage Height and Surface Conductivity - May

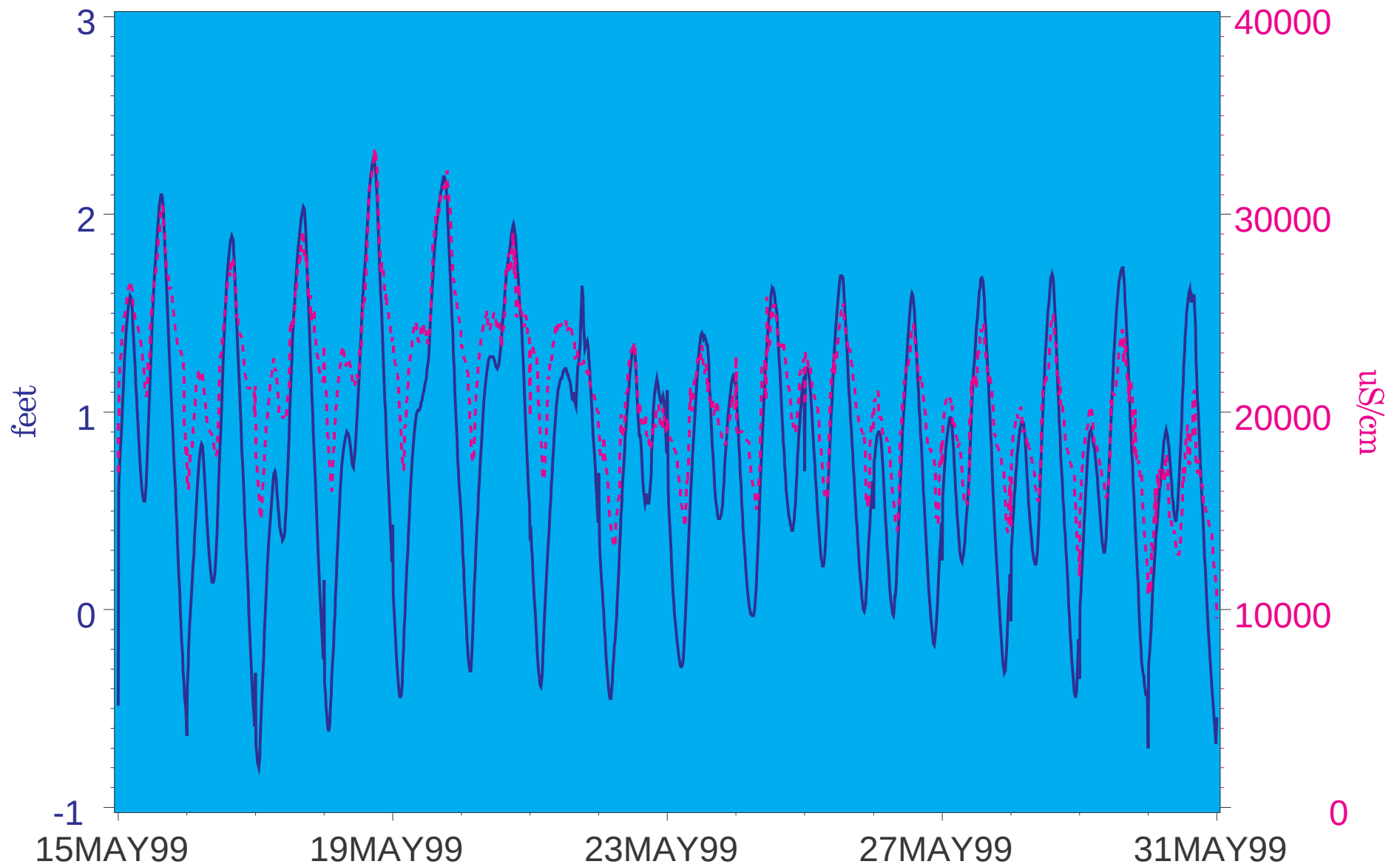


Figure 4.29 Surface in May- Station 02297460 (River Kilometer 15.5)

HBMP 1999  
Peace River at Harbour Heights  
Gage Height and Bottom Conductivity - May

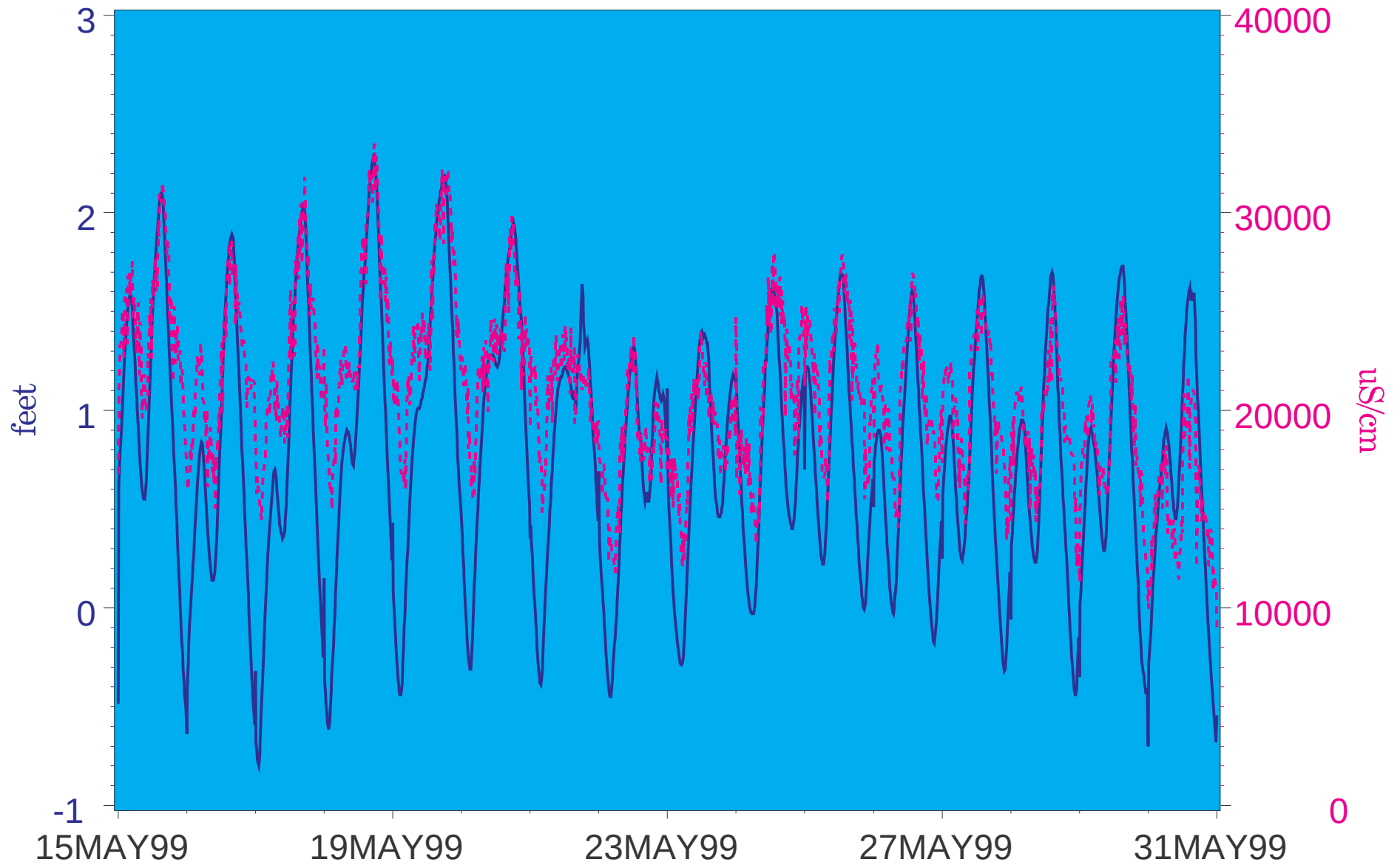


Figure 4.30 Bottom in May - Station 02297460 (River Kilometer 15.5)



HBMP 1999  
Peace River at Harbour Heights  
Bottom & Surface Conductivity - May

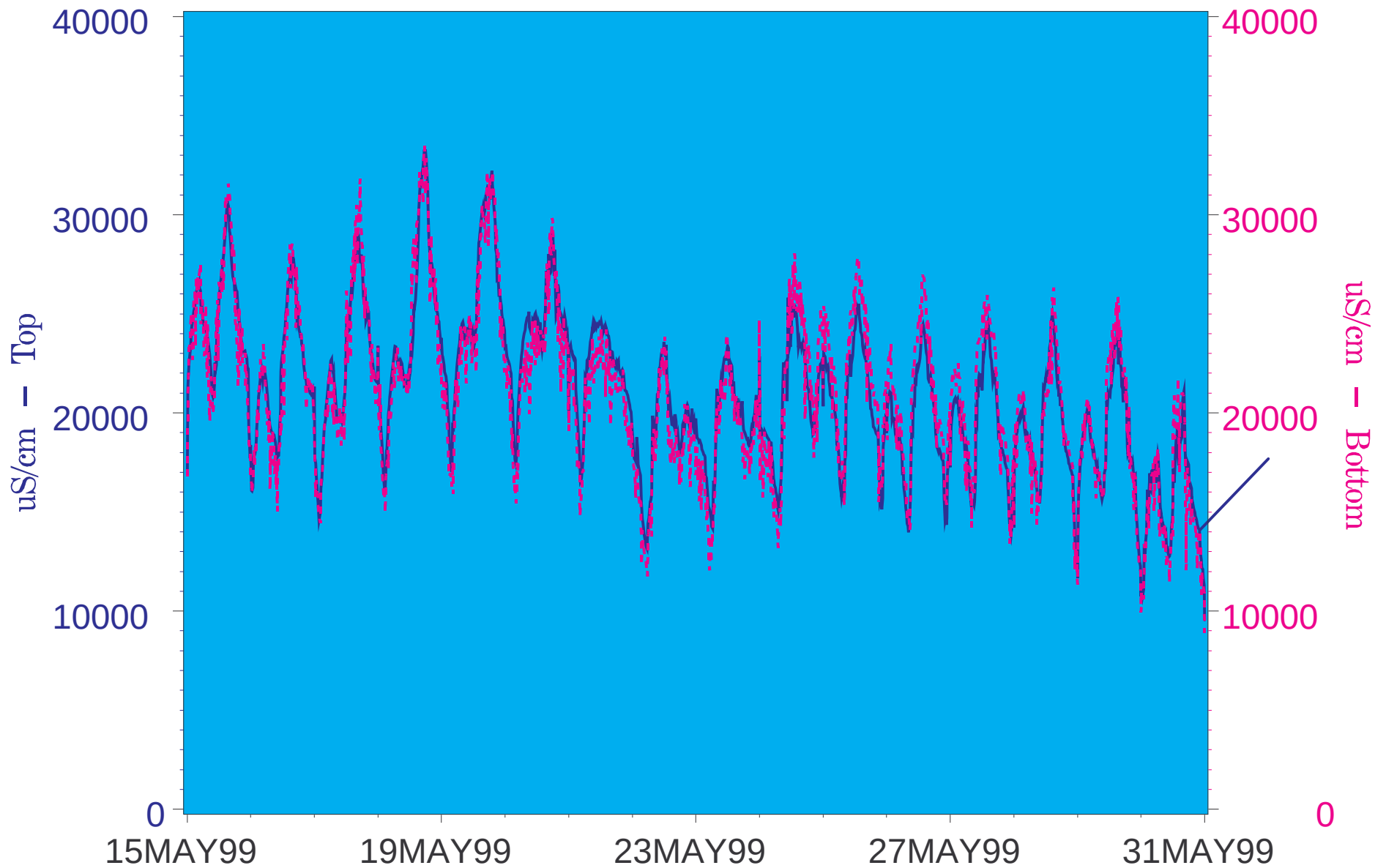


Figure 4.31 Surface & Bottom Conductivity in May - Station 02297460 (River Kilometer 15.5)



HBMP 1999  
Peace River at Harbour Heights  
Gage Height and Surface Conductivity - August

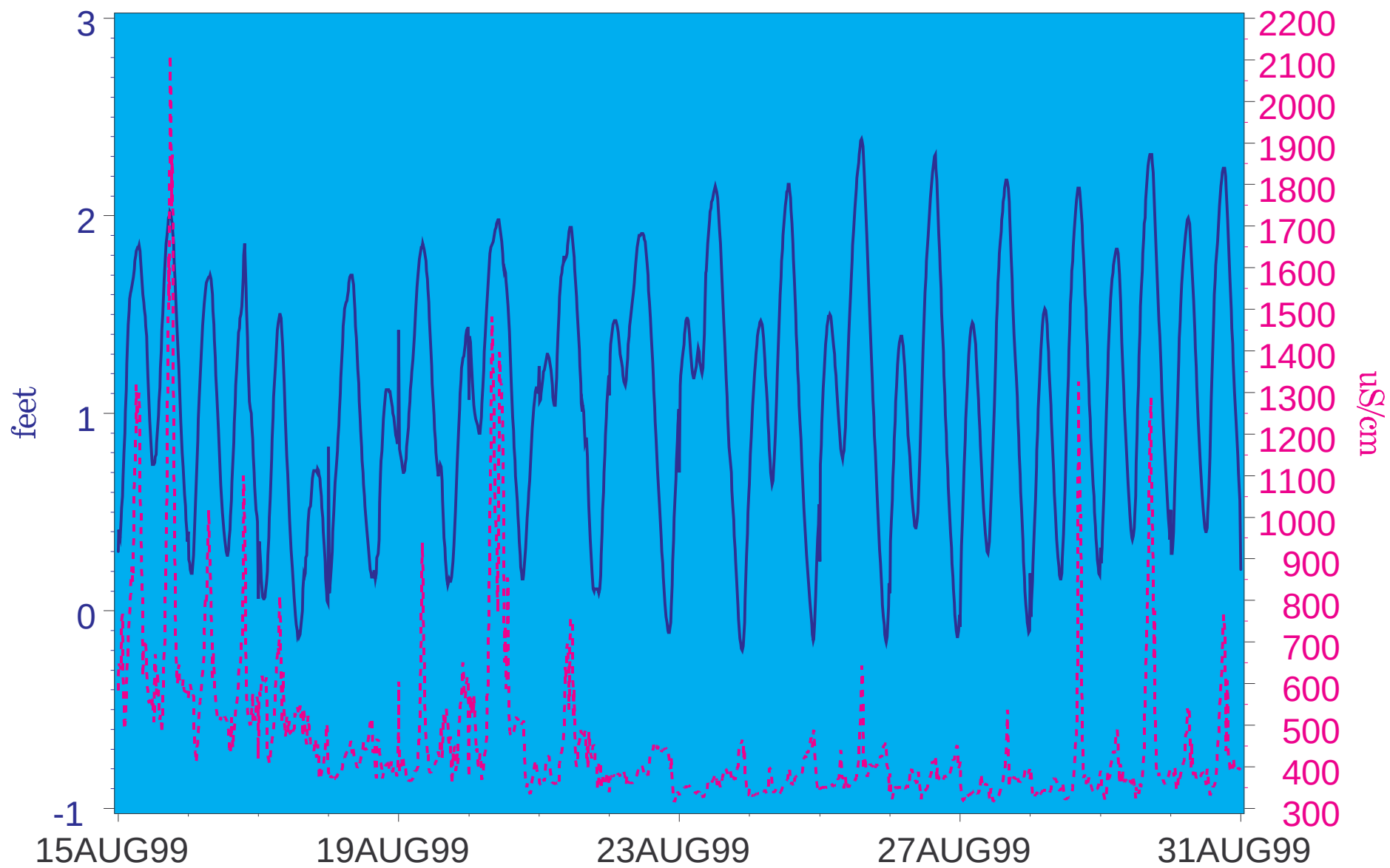


Figure 4.32 Surface in August - Station 02297460 (River Kilometer 15.5)

HBMP 1999  
Peace River at Harbour Heights  
Gage Height and Bottom Conductivity - August

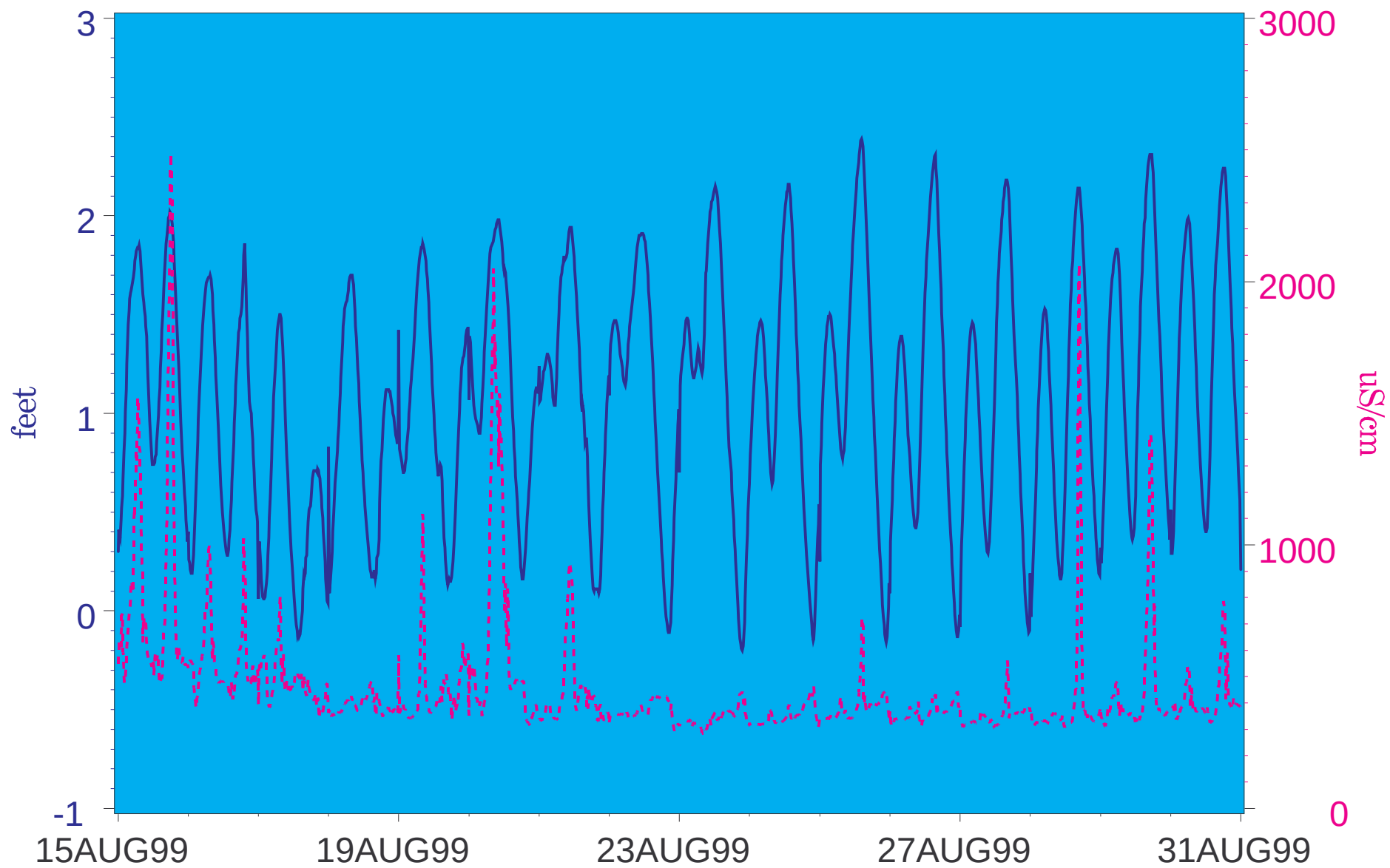


Figure 4.33 Bottom in August - Station 02297460 (River Kilometer 15.5)

HBMP 1999  
Peace River at Harbour Heights  
Bottom & Surface Conductivity - August

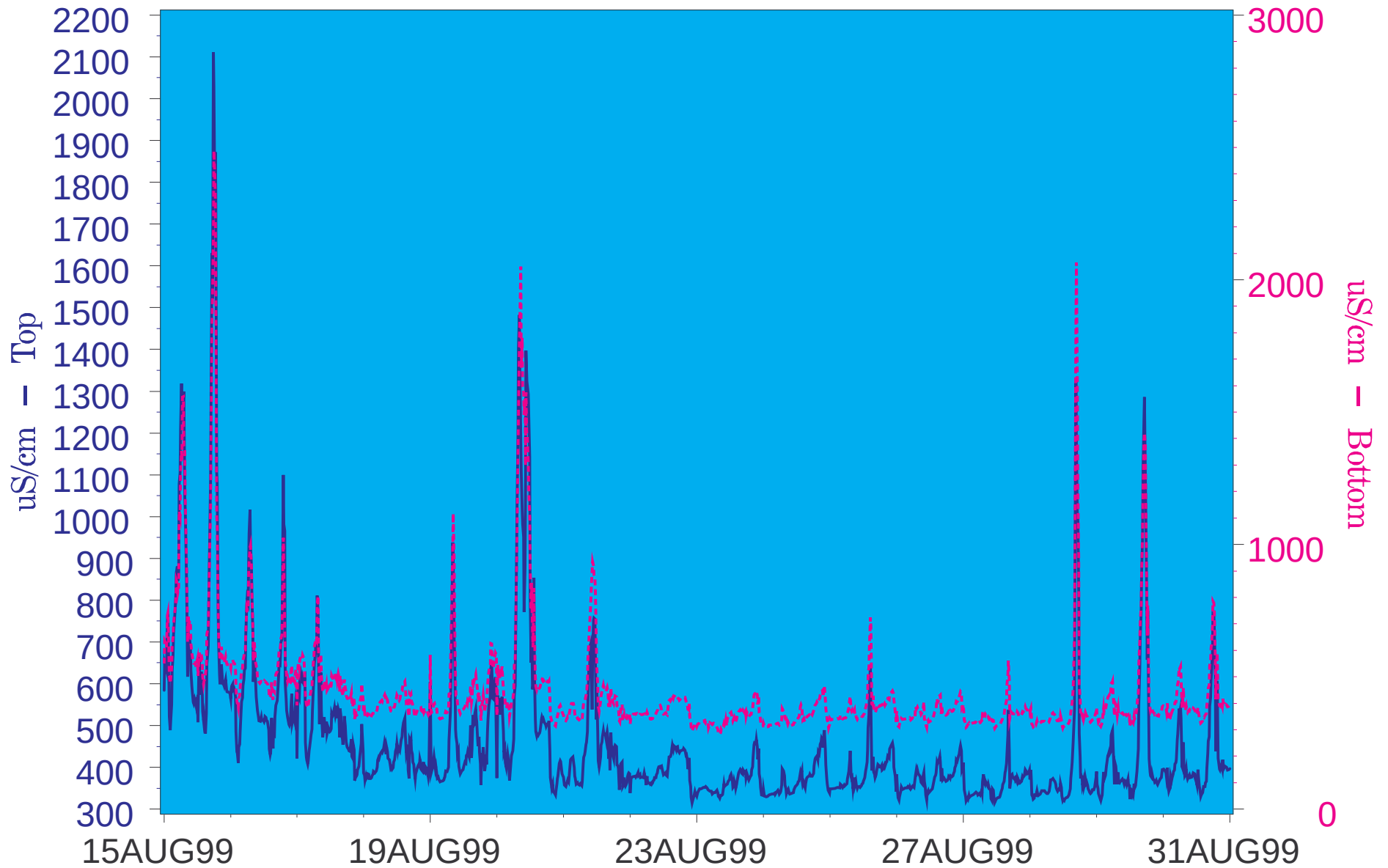


Figure 4.34 Surface & Bottom Conductivity in August - Station 02297460 (River Kilometer 15.5)

HBMP 1999  
Peace River at Peace River Heights  
Gage Height and Surface Conductivity - May

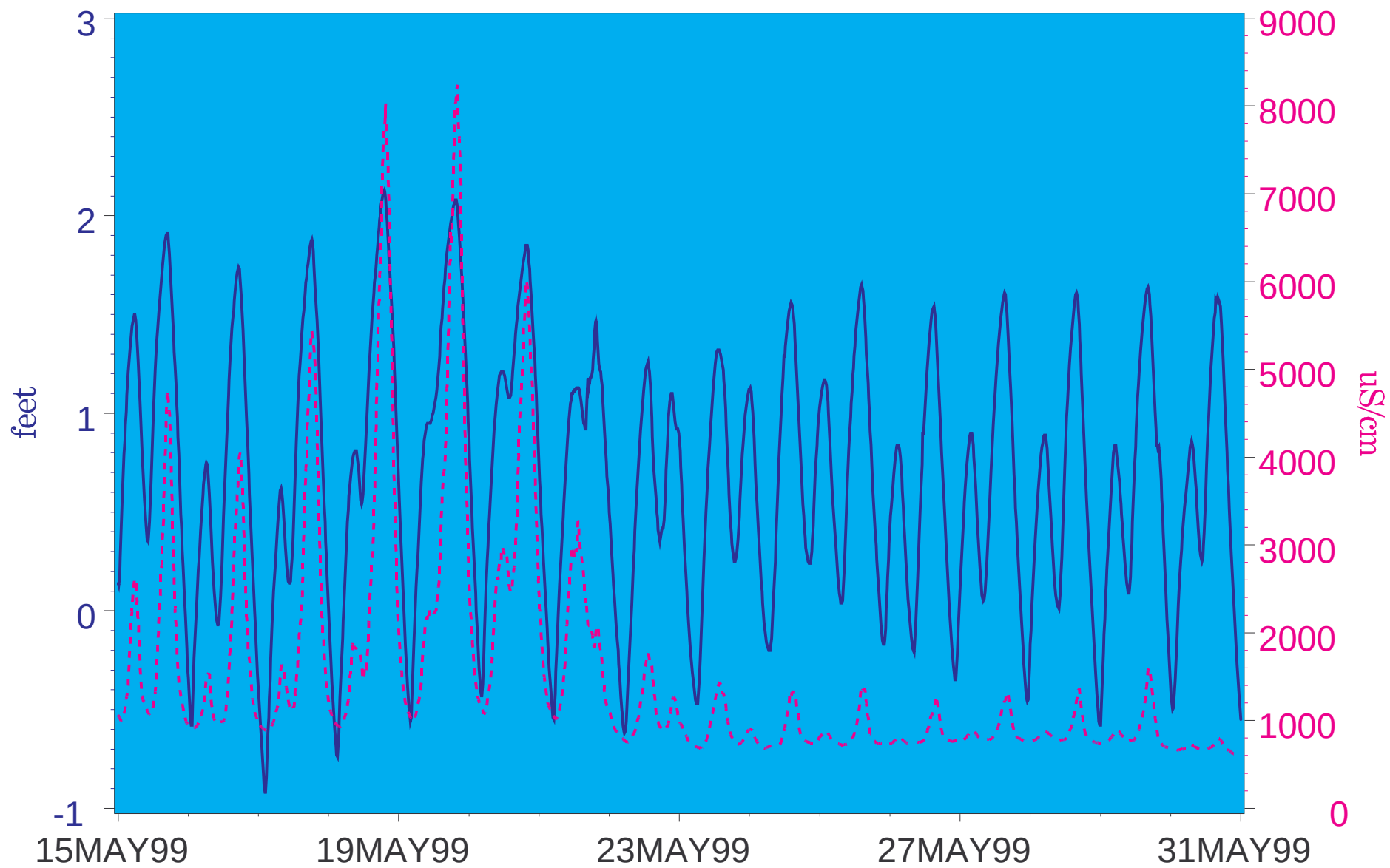


Figure 4.35 Surface in May - Station 02297350 (River Kilometer 26.7)

HBMP 1999  
Peace River at Peace River Heights  
Gage Height and Bottom Conductivity - May

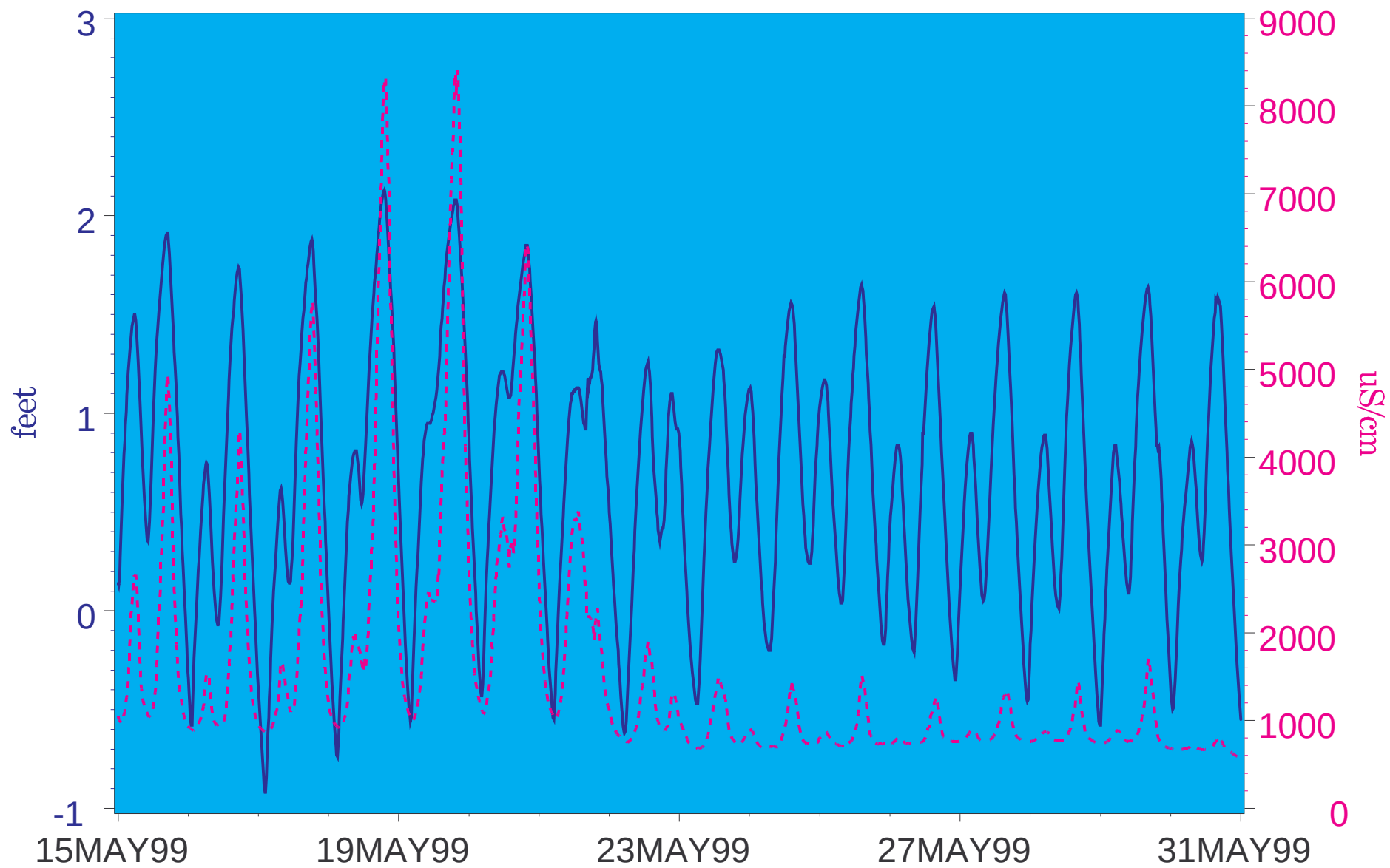


Figure 4.36 Bottom in May - Station 02297350 (River Kilometer 26.7)

HBMP 1999  
Peace River at Peace River Heights  
Bottom & Surface Conductivity - May

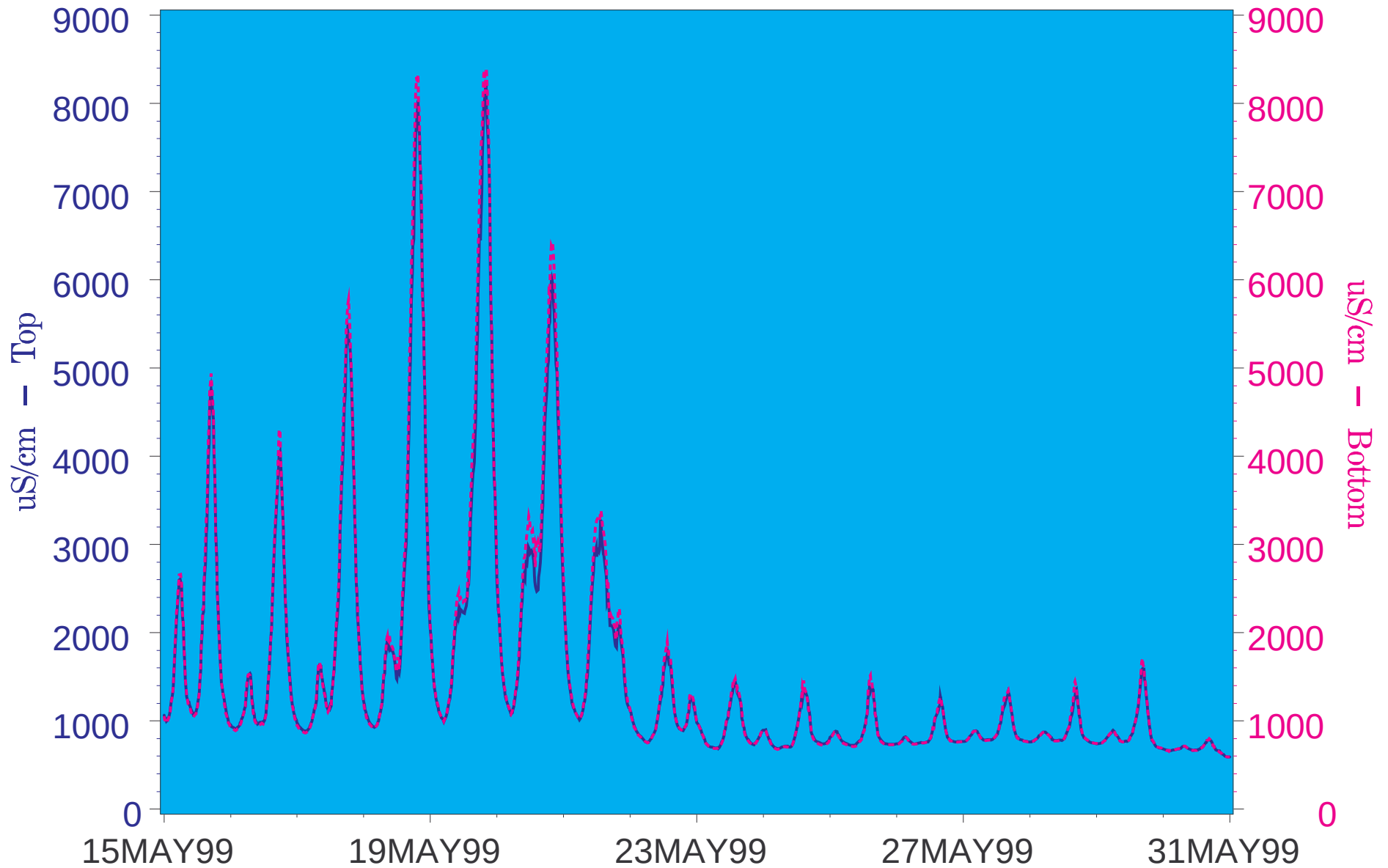


Figure 4.37 Surface & Bottom Conductivity in May - Station 02297350 (River Kilometer 26.7)

HBMP 1999  
Peace River at Peace River Heights  
Gage Height and Surface Conductivity - August

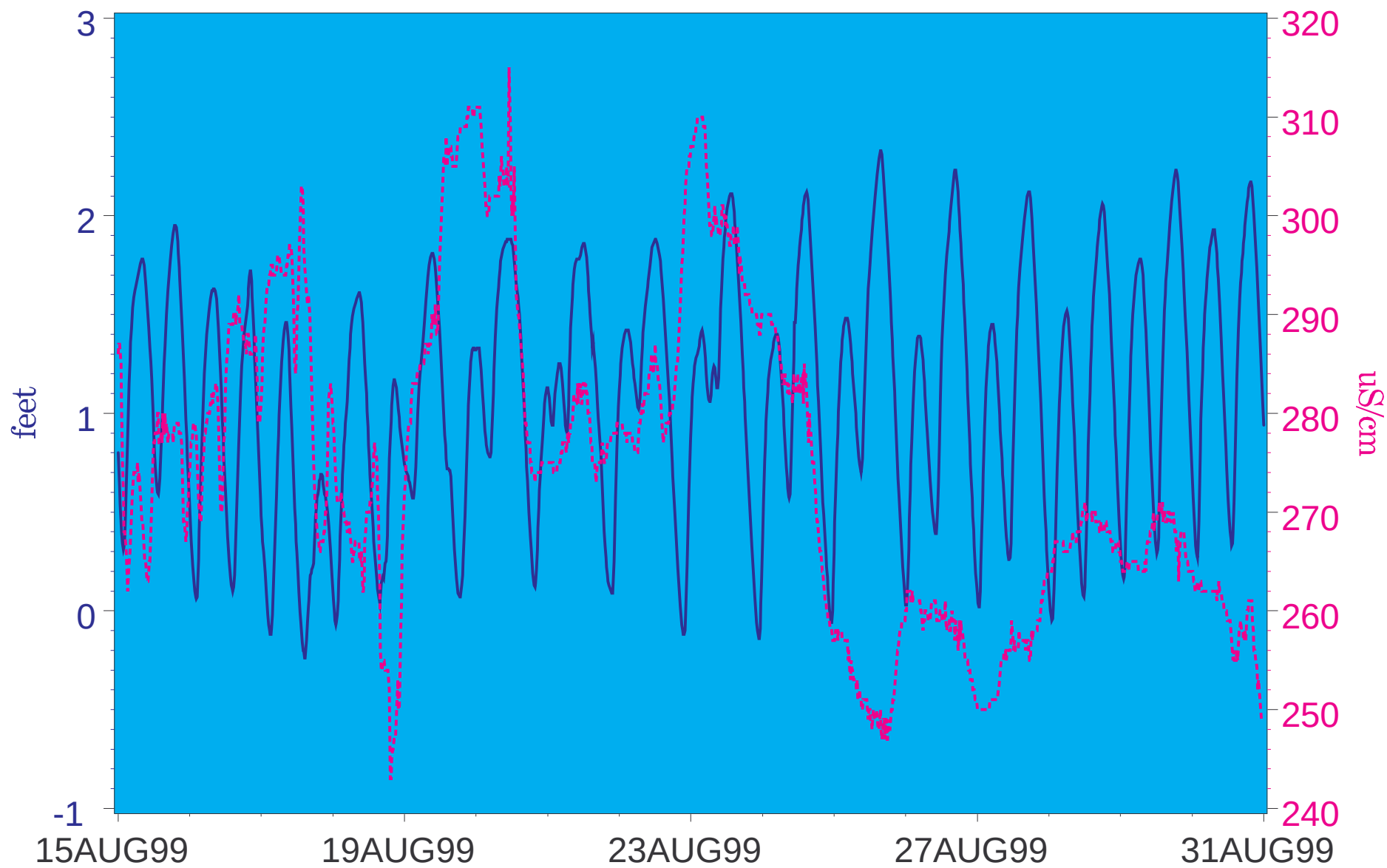


Figure 4.38 Surface in August - Station 02297350 (River Kilometer 26.7)

HBMP 1999  
Peace River at Peace River Heights  
Gage Height and Bottom Conductivity - August

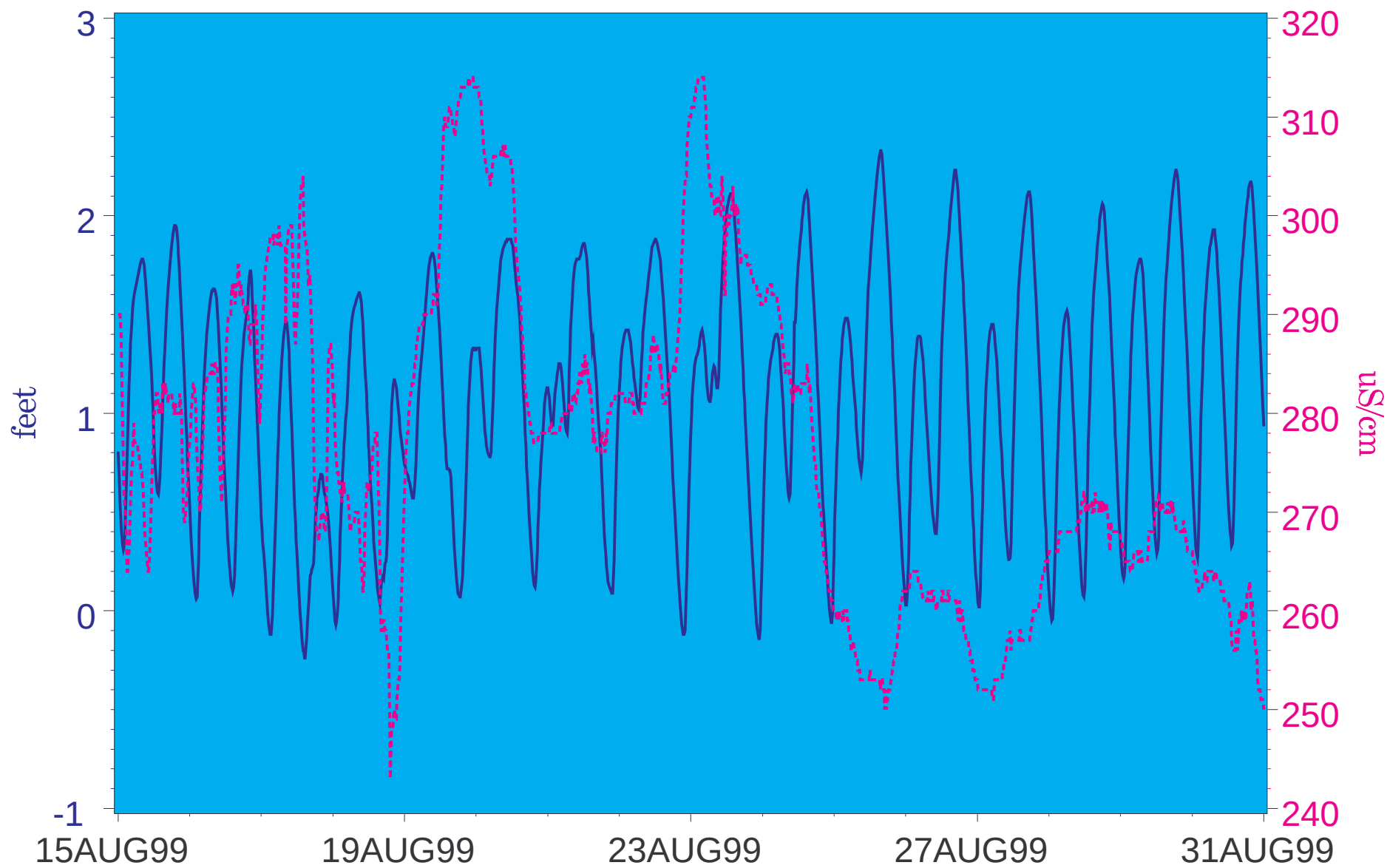


Figure 4.39 Bottom in August - Station 02297350 (River Kilometer 26.7)



HBMP 1999  
Peace River at Peace River Heights  
Bottom & Surface Conductivity - August

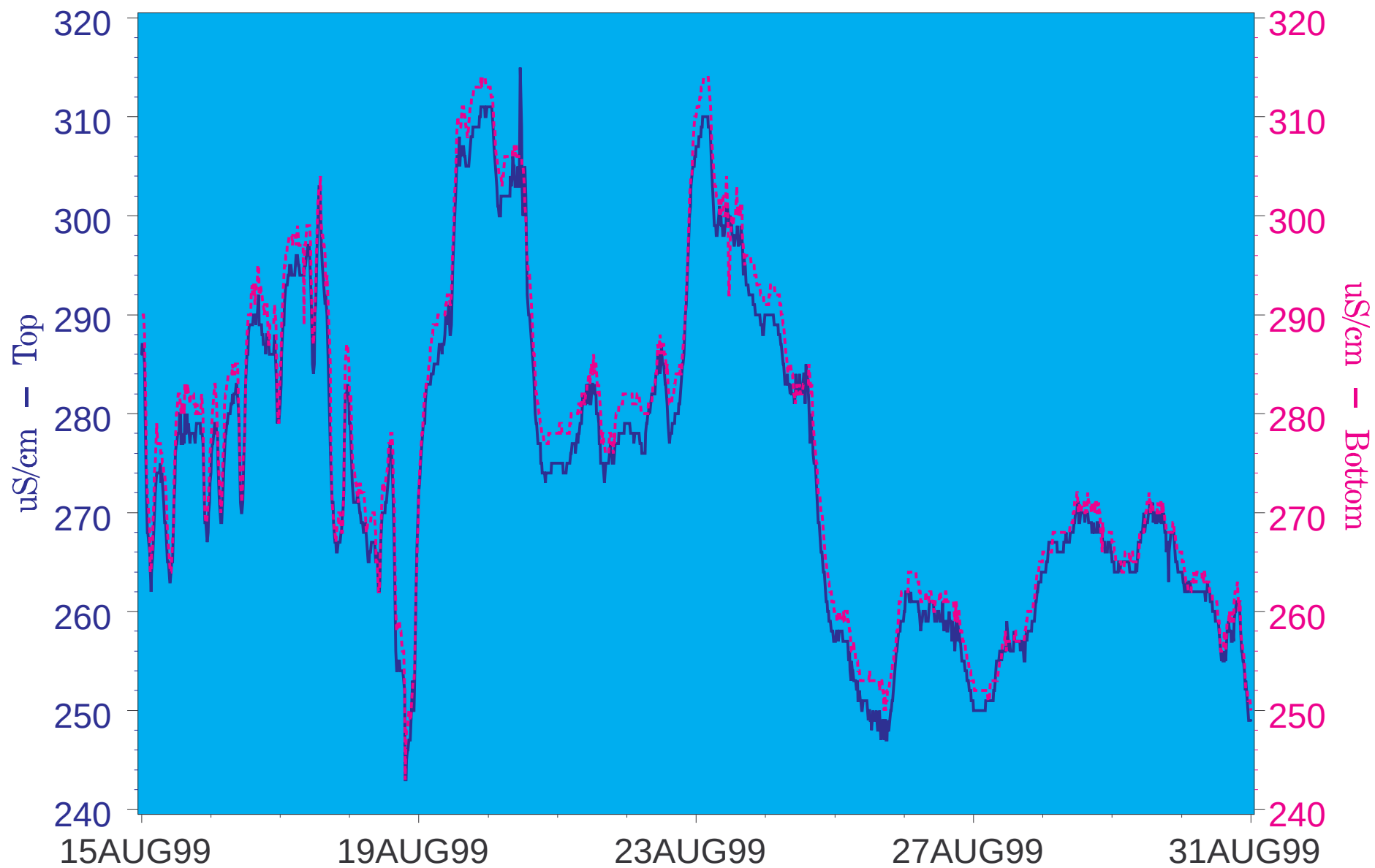


Figure 4.40 Surface & Bottom Conductivity in August - Station 02297350 (River Kilometer 26.7)



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## **APPENDICES**

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# **APPENDIX A**

## **Complete Analysis of Water Column Light Profiles**

LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999  
\*\*\*\*\*

STATION     0   0/00  
-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.90028 | -0.02299 | 0.99103 | 0.98214   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 560.           | 6.32972     | 6.44039    |
| 2 | 40.       | 420.           | 6.04263     | 5.98049    |
| 3 | 60.       | 280.           | 5.63835     | 5.52060    |
| 4 | 80.       | 160.           | 5.08140     | 5.06070    |
| 5 | 100.      | 90.            | 4.51086     | 4.60080    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.7624  Y                                     Y
6.6633  Y                                     Y
6.5642  Y                                     Y
6.4652  YE                                    Y
6.3661  Y1                                    Y
6.2670  Y                                     Y
6.1679  Y                                     Y
6.0688  Y          1                         Y
5.9697  Y                                     Y
5.8707  Y                                     Y
5.7716  Y                                     Y
5.6725  Y          1                         Y
5.5734  Y          E                         Y
5.4743  Y                                     Y
5.3752  Y                                     Y
5.2762  Y                                     Y
5.1771  Y          1                         Y
5.0780  Y          E                         Y
4.9789  Y                                     Y
4.8798  Y                                     Y
4.7807  Y                                     Y
4.6817  Y          E Y
4.5826  Y          1 Y
4.4835  Y                                     Y
4.3844  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000   34.480   51.680   68.880   86.080   103.280

```

LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.00

2.30

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 880.                     | 1.0000                      |
| 10                  | 720.                     | 0.8186                      |
| 20                  | 590.                     | 0.6701                      |
| 30                  | 483.                     | 0.5486                      |
| 40                  | 395.                     | 0.4491                      |
| 50                  | 324.                     | 0.3676                      |
| 60                  | 265.                     | 0.3009                      |
| 80                  | 177.                     | 0.2017                      |
| 100                 | 119.                     | 0.1351                      |
| 200                 | 16.                      | 0.0183                      |



## LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.71111 | -0.03096 | 0.99854 | 0.99708   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 450.           | 6.11147     | 6.09197    |
| 2 | 40.       | 220.           | 5.39816     | 5.47283    |
| 3 | 60.       | 135.           | 4.91265     | 4.85370    |
| 4 | 80.       | 70.            | 4.26268     | 4.23456    |
| 5 | 100.      | 35.            | 3.58352     | 3.61542    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.4170  Y                                     Y
6.2965  Y                                     Y
6.1760  Y1                                    Y
6.0555  Y                                     Y
5.9350  Y                                     Y
5.8145  Y                                     Y
5.6940  Y                                     Y
5.5735  Y      E                             Y
5.4530  Y      1                             Y
5.3325  Y                                     Y
5.2120  Y                                     Y
5.0915  Y                                     Y
4.9709  Y      1                             Y
4.8504  Y                                     Y
4.7299  Y                                     Y
4.6094  Y                                     Y
4.4889  Y                                     Y
4.3684  Y      1                             Y
4.2479  Y      E                             Y
4.1274  Y                                     Y
4.0069  Y                                     Y
3.8864  Y                                     Y
3.7659  Y                                     Y
3.6454  Y      1                             Y
3.5249  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

3.20

1.44

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |      |        |
|-----|------|--------|
| 0   | 920. | 1.0000 |
| 10  | 668. | 0.7261 |
| 20  | 485. | 0.5272 |
| 30  | 352. | 0.3828 |
| 40  | 256. | 0.2779 |
| 50  | 186. | 0.2018 |
| 60  | 135. | 0.1465 |
| 80  | 71.  | 0.0773 |
| 100 | 37.  | 0.0407 |
| 200 | 2.   | 0.0017 |

## LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.51989 | -0.01917 | 0.99759 | 0.99519   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 440.           | 6.08905     | 6.13646    |
| 2 | 40.       | 330.           | 5.80212     | 5.75304    |
| 3 | 60.       | 215.           | 5.37528     | 5.36961    |
| 4 | 80.       | 150.           | 5.01728     | 4.98619    |
| 5 | 100.      | 95.            | 4.56435     | 4.60277    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.4433  Y                                     Y
6.3590  Y                                     Y
6.2747  Y                                     Y
6.1904  YE                                    Y
6.1061  Y1                                    Y
6.0219  Y                                     Y
5.9376  Y                                     Y
5.8533  Y      1                             Y
5.7690  Y      E                             Y
5.6847  Y                                     Y
5.6004  Y                                     Y
5.5161  Y                                     Y
5.4318  Y      1                             Y
5.3476  Y                                     Y
5.2633  Y                                     Y
5.1790  Y                                     Y
5.0947  Y      1                             Y
5.0104  Y      E                             Y
4.9261  Y                                     Y
4.8418  Y                                     Y
4.7576  Y                                     Y
4.6733  Y      E Y
4.5890  Y      1 Y
4.5047  Y      Y
4.4204  Y      Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.25

2.04

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 960.                     | 1.0000                      |
| 10                  | 766.                     | 0.7983                      |
| 20                  | 612.                     | 0.6372                      |
| 30                  | 488.                     | 0.5087                      |
| 40                  | 390.                     | 0.4061                      |
| 50                  | 311.                     | 0.3242                      |
| 60                  | 248.                     | 0.2588                      |
| 80                  | 158.                     | 0.1649                      |
| 100                 | 101.                     | 0.1051                      |
| 200                 | 11.                      | 0.0110                      |

## LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.41864 | -0.01052 | 0.97973 | 0.95988   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 460.           | 6.13340     | 6.20827    |
| 2 | 40.       | 430.           | 6.06611     | 5.99789    |
| 3 | 60.       | 350.           | 5.86079     | 5.78752    |
| 4 | 80.       | 250.           | 5.52545     | 5.57715    |
| 5 | 100.      | 210.           | 5.35186     | 5.36677    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.5187  Y                                     Y
6.4613  Y                                     Y
6.4039  Y                                     Y
6.3466  Y                                     Y
6.2892  Y                                     Y
6.2318  YE                                  Y
6.1744  Y1                                  Y
6.1170  Y      1                            Y
6.0597  Y                                     Y
6.0023  Y      E                            Y
5.9449  Y                                     Y
5.8875  Y      1                            Y
5.8302  Y      E                            Y
5.7728  Y                                     Y
5.7154  Y                                     Y
5.6580  Y                                     Y
5.6007  Y      E                            Y
5.5433  Y      1                            Y
5.4859  Y                                     Y
5.4285  Y                                     Y
5.3711  Y      1                            Y
5.3138  Y                                     Y
5.2564  Y                                     Y
5.1990  Y                                     Y
5.1416  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR JANUARY 14, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.15

4.01

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |      |        |
|-----|------|--------|
| 0   | 800. | 1.0000 |
| 10  | 713. | 0.8914 |
| 20  | 636. | 0.7947 |
| 30  | 567. | 0.7084 |
| 40  | 505. | 0.6315 |
| 50  | 450. | 0.5630 |
| 60  | 401. | 0.5019 |
| 80  | 319. | 0.3988 |
| 100 | 254. | 0.3169 |
| 200 | 80.  | 0.1004 |

## LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 6.79605 | -0.02831 | 0.99741 | 0.99484   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 500.           | 6.21661     | 6.22990    |
| 2 | 40.       | 300.           | 5.70711     | 5.66374    |
| 3 | 60.       | 150.           | 5.01728     | 5.09759    |
| 4 | 80.       | 100.           | 4.61512     | 4.53143    |
| 5 | 100.      | 50.            | 3.93183     | 3.96528    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.5414  Y                                     Y
6.4291  Y                                     Y
6.3169  Y1                                    Y
6.2047  Y                                     Y
6.0924  Y                                     Y
5.9802  Y                                     Y
5.8679  Y                                     Y
5.7557  Y      1                             Y
5.6434  Y                                     Y
5.5312  Y                                     Y
5.4189  Y                                     Y
5.3067  Y                                     Y
5.1944  Y      E                             Y
5.0822  Y      1                             Y
4.9699  Y                                     Y
4.8577  Y                                     Y
4.7454  Y                                     Y
4.6332  Y      1                             Y
4.5210  Y                                     Y
4.4087  Y                                     Y
4.2965  Y                                     Y
4.1842  Y                                     Y
4.0720  Y                                     E Y
3.9597  Y      1                             Y
3.8475  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

3.02

1.53

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1110.                    | 1.0000                      |
| 10                  | 821.                     | 0.7396                      |
| 20                  | 607.                     | 0.5470                      |
| 30                  | 449.                     | 0.4045                      |
| 40                  | 332.                     | 0.2992                      |
| 50                  | 246.                     | 0.2212                      |
| 60                  | 182.                     | 0.1636                      |
| 80                  | 99.                      | 0.0895                      |
| 100                 | 54.                      | 0.0490                      |
| 200                 | 3.                       | 0.0024                      |



## LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.52711 | -0.02517 | 0.99659 | 0.99319   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 400.           | 5.99396     | 6.02365    |
| 2 | 40.       | 250.           | 5.52545     | 5.52019    |
| 3 | 60.       | 150.           | 5.01728     | 5.01673    |
| 4 | 80.       | 100.           | 4.61512     | 4.51327    |
| 5 | 100.      | 50.            | 3.93183     | 4.00981    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.3248 Y Y
6.2212 Y Y
6.1177 YE Y
6.0141 Y1 Y
5.9105 Y Y
5.8069 Y Y
5.7033 Y Y
5.5997 Y 1 Y
5.4962 Y Y
5.3926 Y Y
5.2890 Y Y
5.1854 Y Y
5.0818 Y 1 Y
4.9782 Y Y
4.8747 Y Y
4.7711 Y Y
4.6675 Y 1 Y
4.5639 Y E Y
4.4603 Y Y
4.3567 Y Y
4.2532 Y Y
4.1496 Y Y
4.0460 Y E Y
3.9424 Y 1 Y
3.8388 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199

\*\*\*\*\*

STATION 6 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

2.78

1.66

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1000.           | 1.0000             |
| 10         | 757.            | 0.7573             |
| 20         | 574.            | 0.5735             |
| 30         | 434.            | 0.4343             |
| 40         | 329.            | 0.3289             |
| 50         | 249.            | 0.2491             |
| 60         | 189.            | 0.1886             |
| 80         | 108.            | 0.1082             |
| 100        | 62.             | 0.0621             |
| 200        | 4.              | 0.0039             |

## LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.18128 | -0.01903 | 0.99001 | 0.98011   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 900.           | 6.80351     | 6.80063    |
| 2 | 40.       | 600.           | 6.39859     | 6.41999    |
| 3 | 60.       | 400.           | 5.99396     | 6.03934    |
| 4 | 80.       | 330.           | 5.80212     | 5.65869    |
| 5 | 100.      | 180.           | 5.19850     | 5.27804    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.1437 Y Y
7.0555 Y Y
6.9673 Y Y
6.8791 Y1 Y
6.7909 Y Y
6.7027 Y Y
6.6145 Y Y
6.5262 Y Y
6.4380 Y 1 Y
6.3498 Y Y
6.2616 Y Y
6.1734 Y Y
6.0852 Y E Y
5.9970 Y 1 Y
5.9088 Y Y
5.8206 Y 1 Y
5.7324 Y E Y
5.6442 Y Y
5.5560 Y Y
5.4678 Y Y
5.3796 Y Y
5.2914 Y E Y
5.2032 Y 1 Y
5.1150 Y Y
5.0268 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.75

2.63

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1600.                    | 1.0000                      |
| 10                  | 1343.                    | 0.8394                      |
| 20                  | 1127.                    | 0.7045                      |
| 30                  | 946.                     | 0.5913                      |
| 40                  | 794.                     | 0.4963                      |
| 50                  | 667.                     | 0.4166                      |
| 60                  | 559.                     | 0.3497                      |
| 80                  | 394.                     | 0.2464                      |
| 100                 | 278.                     | 0.1736                      |
| 200                 | 48.                      | 0.0301                      |

## LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.00692 | -0.01163 | 0.98997 | 0.98005   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 900.           | 6.80351     | 6.77427    |
| 2 | 40.       | 700.           | 6.55251     | 6.54162    |
| 3 | 60.       | 500.           | 6.21661     | 6.30897    |
| 4 | 80.       | 450.           | 6.11147     | 6.07633    |
| 5 | 100.      | 350.           | 5.86079     | 5.84368    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.1437 Y Y
7.0800 Y Y
7.0163 Y Y
6.9526 Y Y
6.8889 Y Y
6.8252 Y1 Y
6.7616 Y Y
6.6979 Y Y
6.6342 Y Y
6.5705 Y 1 Y
6.5068 Y Y
6.4431 Y Y
6.3794 Y Y
6.3157 Y E Y
6.2521 Y 1 Y
6.1884 Y Y
6.1247 Y 1 Y
6.0610 Y Y
5.9973 Y Y
5.9336 Y Y
5.8699 Y 1 Y
5.8062 Y Y
5.7426 Y Y
5.6789 Y Y
5.6152 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR FEBRUARY 11-12, 199  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.00

4.61

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1400. | 1.0000 |
| 10  | 1267. | 0.9050 |
| 20  | 1147. | 0.8191 |
| 30  | 1038. | 0.7413 |
| 40  | 939.  | 0.6709 |
| 50  | 850.  | 0.6071 |
| 60  | 769.  | 0.5495 |
| 80  | 630.  | 0.4501 |
| 100 | 516.  | 0.3686 |
| 200 | 190.  | 0.1359 |

LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999  
 \*\*\*\*\*

STATION 0 0/00  
 -----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.21965 | -0.01652 | 0.99856 | 0.99713   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.88915    |
| 2 | 40.       | 700.           | 6.55251     | 6.55865    |
| 3 | 60.       | 500.           | 6.21661     | 6.22815    |
| 4 | 80.       | 350.           | 5.86079     | 5.89766    |
| 5 | 100.      | 270.           | 5.60212     | 5.56716    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1756 Y Y
7.0970 Y Y
7.0183 Y Y
6.9397 Y1 Y
6.8611 Y Y
6.7825 Y Y
6.7039 Y Y
6.6253 Y 1 Y
6.5467 Y Y
6.4680 Y Y
6.3894 Y Y
6.3108 Y Y
6.2322 Y 1 Y
6.1536 Y Y
6.0750 Y Y
5.9963 Y Y
5.9177 Y 1 Y
5.8391 Y Y
5.7605 Y Y
5.6819 Y Y
5.6033 Y 1 Y
5.5246 Y Y
5.4460 Y Y
5.3674 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.69

2.72

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1600. | 1.0000 |
| 10  | 1351. | 0.8442 |
| 20  | 1140. | 0.7127 |
| 30  | 963.  | 0.6017 |
| 40  | 813.  | 0.5079 |
| 50  | 686.  | 0.4288 |
| 60  | 579.  | 0.3620 |
| 80  | 413.  | 0.2580 |
| 100 | 294.  | 0.1839 |
| 200 | 54.   | 0.0338 |



## LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.22203 | -0.02527 | 0.99650 | 0.99302   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 800.           | 6.68586     | 6.71656    |
| 2 | 40.       | 500.           | 6.21661     | 6.21108    |
| 3 | 60.       | 300.           | 5.70711     | 5.70560    |
| 4 | 80.       | 200.           | 5.30330     | 5.20012    |
| 5 | 100.      | 100.           | 4.61512     | 4.69465    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0524 Y Y
6.9457 Y Y
6.8389 Y Y
6.7322 Y1 Y
6.6255 Y Y
6.5188 Y Y
6.4121 Y Y
6.3053 Y 1 Y
6.1986 Y Y
6.0919 Y Y
5.9852 Y Y
5.8785 Y Y
5.7717 Y 1 Y
5.6650 Y Y
5.5583 Y Y
5.4516 Y Y
5.3448 Y 1 Y
5.2381 Y E Y
5.1314 Y Y
5.0247 Y Y
4.9180 Y Y
4.8112 Y Y
4.7045 Y 1 Y
4.5978 Y Y
4.4911 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.00

2.30

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1400. | 1.0000 |
| 10  | 1146. | 0.8184 |
| 20  | 938.  | 0.6698 |
| 30  | 768.  | 0.5482 |
| 40  | 628.  | 0.4487 |
| 50  | 514.  | 0.3672 |
| 60  | 421.  | 0.3005 |
| 80  | 282.  | 0.2013 |
| 100 | 189.  | 0.1349 |
| 200 | 25.   | 0.0182 |

## LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.99630 | -0.02426 | 0.99864 | 0.99728   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 700.           | 6.55251     | 6.51116    |
| 2 | 40.       | 400.           | 5.99396     | 6.02601    |
| 3 | 60.       | 250.           | 5.52545     | 5.54086    |
| 4 | 80.       | 150.           | 5.01728     | 5.05572    |
| 5 | 100.      | 100.           | 4.61512     | 4.57057    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.8801  Y                                     Y
6.7786  Y                                     Y
6.6771  Y                                     Y
6.5756  Y1                                   Y
6.4740  Y                                     Y
6.3725  Y                                     Y
6.2710  Y                                     Y
6.1695  Y                                     Y
6.0679  Y      1                             Y
5.9664  Y                                     Y
5.8649  Y                                     Y
5.7634  Y                                     Y
5.6619  Y                                     Y
5.5603  Y      1                             Y
5.4588  Y                                     Y
5.3573  Y                                     Y
5.2558  Y                                     Y
5.1542  Y      E                             Y
5.0527  Y      1                             Y
4.9512  Y                                     Y
4.8497  Y                                     Y
4.7481  Y                                     Y
4.6466  Y      1                             Y
4.5451  Y                                     Y
4.4436  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.44

1.89

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1450.                    | 1.0000                      |
| 10                  | 1136.                    | 0.7837                      |
| 20                  | 891.                     | 0.6142                      |
| 30                  | 698.                     | 0.4814                      |
| 40                  | 547.                     | 0.3773                      |
| 50                  | 429.                     | 0.2957                      |
| 60                  | 336.                     | 0.2317                      |
| 80                  | 206.                     | 0.1423                      |
| 100                 | 127.                     | 0.0874                      |
| 200                 | 11.                      | 0.0076                      |

## LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 6.99630 | -0.02426 | 0.99864 | 0.99728   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 700.           | 6.55251     | 6.51116    |
| 2 | 40.       | 400.           | 5.99396     | 6.02601    |
| 3 | 60.       | 250.           | 5.52545     | 5.54086    |
| 4 | 80.       | 150.           | 5.01728     | 5.05572    |
| 5 | 100.      | 100.           | 4.61512     | 4.57057    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.8801  Y                                     Y
6.7786  Y                                     Y
6.6771  Y                                     Y
6.5756  Y1                                   Y
6.4740  Y                                     Y
6.3725  Y                                     Y
6.2710  Y                                     Y
6.1695  Y                                     Y
6.0679  Y      1                             Y
5.9664  Y                                     Y
5.8649  Y                                     Y
5.7634  Y                                     Y
5.6619  Y                                     Y
5.5603  Y      1                             Y
5.4588  Y                                     Y
5.3573  Y                                     Y
5.2558  Y                                     Y
5.1542  Y      E                             Y
5.0527  Y      1                             Y
4.9512  Y                                     Y
4.8497  Y                                     Y
4.7481  Y                                     Y
4.6466  Y      1                             Y
4.5451  Y                                     Y
4.4436  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR MARCH 11-12, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.28

2.02

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1300. | 1.0000 |
| 10  | 1035. | 0.7963 |
| 20  | 824.  | 0.6340 |
| 30  | 656.  | 0.5049 |
| 40  | 523.  | 0.4020 |
| 50  | 416.  | 0.3201 |
| 60  | 331.  | 0.2549 |
| 80  | 210.  | 0.1616 |
| 100 | 133.  | 0.1025 |
| 200 | 14.   | 0.0105 |

LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999  
\*\*\*\*\*

STATION     0   0/00  
-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.51484 | -0.01869 | 0.98598 | 0.97215   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1150.          | 7.04839     | 7.14105    |
| 2 | 40.       | 900.           | 6.80351     | 6.76726    |
| 3 | 60.       | 650.           | 6.47851     | 6.39346    |
| 4 | 80.       | 450.           | 6.11147     | 6.01967    |
| 5 | 100.      | 250.           | 5.52545     | 5.64588    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.4981  Y                                     Y
7.4081  Y                                     Y
7.3182  Y                                     Y
7.2282  YE                                    Y
7.1383  Y1                                    Y
7.0483  Y                                     Y
6.9584  Y                                     Y
6.8684  Y          1                         Y
6.7784  Y          E                         Y
6.6885  Y                                     Y
6.5985  Y                                     Y
6.5086  Y          1                         Y
6.4186  Y          E                         Y
6.3287  Y                                     Y
6.2387  Y                                     Y
6.1487  Y          1                         Y
6.0588  Y          E                         Y
5.9688  Y                                     Y
5.8789  Y                                     Y
5.7889  Y                                     Y
5.6990  Y          E Y
5.6090  Y          1 Y
5.5191  Y                                     Y
5.4291  Y                                     Y
5.3391  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.53

3.00

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1800. | 1.0000 |
| 10  | 1544. | 0.8579 |
| 20  | 1325. | 0.7360 |
| 30  | 1136. | 0.6314 |
| 40  | 975.  | 0.5416 |
| 50  | 836.  | 0.4647 |
| 60  | 718.  | 0.3986 |
| 80  | 528.  | 0.2934 |
| 100 | 389.  | 0.2159 |
| 200 | 84.   | 0.0466 |



## LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.16434 | -0.01481 | 0.99644 | 0.99289   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.86815    |
| 2 | 40.       | 700.           | 6.55251     | 6.57197    |
| 3 | 60.       | 500.           | 6.21661     | 6.27579    |
| 4 | 80.       | 400.           | 5.99396     | 5.97960    |
| 5 | 100.      | 300.           | 5.70711     | 5.68342    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1800 Y Y
7.1058 Y Y
7.0316 Y Y
6.9574 Y1 Y
6.8832 YE Y
6.8090 Y Y
6.7348 Y Y
6.6606 Y Y
6.5864 Y 1 Y
6.5122 Y Y
6.4380 Y Y
6.3638 Y Y
6.2896 Y 1 Y
6.2154 Y Y
6.1412 Y Y
6.0670 Y 1 Y
5.9928 Y E Y
5.9186 Y Y
5.8444 Y Y
5.7702 Y 1 Y
5.6960 Y E Y
5.6218 Y Y
5.5476 Y Y
5.4734 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.61

2.85

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1700.                    | 1.0000                      |
| 10                  | 1447.                    | 0.8509                      |
| 20                  | 1231.                    | 0.7241                      |
| 30                  | 1048.                    | 0.6162                      |
| 40                  | 891.                     | 0.5243                      |
| 50                  | 759.                     | 0.4462                      |
| 60                  | 645.                     | 0.3797                      |
| 80                  | 467.                     | 0.2749                      |
| 100                 | 338.                     | 0.1991                      |
| 200                 | 67.                      | 0.0396                      |

## LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.23137 | -0.01634 | 0.99586 | 0.99175   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.90452    |
| 2 | 40.       | 700.           | 6.55251     | 6.57768    |
| 3 | 60.       | 550.           | 6.31173     | 6.25084    |
| 4 | 80.       | 350.           | 5.86079     | 5.92399    |
| 5 | 100.      | 275.           | 5.62040     | 5.59715    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1767 Y Y
7.0992 Y Y
7.0218 Y Y
6.9443 Y1 Y
6.8668 Y Y
6.7893 Y Y
6.7119 Y Y
6.6344 Y E Y
6.5569 Y 1 Y
6.4794 Y Y
6.4020 Y Y
6.3245 Y 1 Y
6.2470 Y Y
6.1695 Y Y
6.0921 Y Y
6.0146 Y Y
5.9371 Y 1 Y
5.8596 Y Y
5.7821 Y Y
5.7047 Y Y
5.6272 Y 1 Y
5.5497 Y Y
5.4722 Y Y
5.3948 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.53

3.01

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1700. | 1.0000 |
| 10  | 1459. | 0.8579 |
| 20  | 1251. | 0.7361 |
| 30  | 1074. | 0.6315 |
| 40  | 921.  | 0.5418 |
| 50  | 790.  | 0.4648 |
| 60  | 678.  | 0.3988 |
| 80  | 499.  | 0.2935 |
| 100 | 367.  | 0.2161 |
| 200 | 79.   | 0.0467 |

## LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.16434 | -0.01481 | 0.99644 | 0.99289   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.86815    |
| 2 | 40.       | 700.           | 6.55251     | 6.57197    |
| 3 | 60.       | 500.           | 6.21661     | 6.27579    |
| 4 | 80.       | 400.           | 5.99396     | 5.97960    |
| 5 | 100.      | 300.           | 5.70711     | 5.68342    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1800 Y Y
7.1058 Y Y
7.0316 Y Y
6.9574 Y1 Y
6.8832 YE Y
6.8090 Y Y
6.7348 Y Y
6.6606 Y Y
6.5864 Y 1 Y
6.5122 Y Y
6.4380 Y Y
6.3638 Y Y
6.2896 Y 1 Y
6.2154 Y Y
6.1412 Y Y
6.0670 Y 1 Y
5.9928 Y E Y
5.9186 Y Y
5.8444 Y Y
5.7702 Y 1 Y
5.6960 Y E Y
5.6218 Y Y
5.5476 Y Y
5.4734 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR APRIL 13-14, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.36

3.39

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1500.                    | 1.0000                      |
| 10                  | 1310.                    | 0.8731                      |
| 20                  | 1143.                    | 0.7623                      |
| 30                  | 998.                     | 0.6655                      |
| 40                  | 872.                     | 0.5811                      |
| 50                  | 761.                     | 0.5073                      |
| 60                  | 664.                     | 0.4430                      |
| 80                  | 506.                     | 0.3377                      |
| 100                 | 386.                     | 0.2574                      |
| 200                 | 99.                      | 0.0663                      |

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.16434 | -0.01481 | 0.99644 | 0.99289   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.86815    |
| 2 | 40.       | 700.           | 6.55251     | 6.57197    |
| 3 | 60.       | 500.           | 6.21661     | 6.27579    |
| 4 | 80.       | 400.           | 5.99396     | 5.97960    |
| 5 | 100.      | 300.           | 5.70711     | 5.68342    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1800 Y Y
7.1058 Y Y
7.0316 Y Y
6.9574 Y1 Y
6.8832 YE Y
6.8090 Y Y
6.7348 Y Y
6.6606 Y Y
6.5864 Y 1 Y
6.5122 Y Y
6.4380 Y Y
6.3638 Y Y
6.2896 Y 1 Y
6.2154 Y Y
6.1412 Y Y
6.0670 Y 1 Y
5.9928 Y E Y
5.9186 Y Y
5.8444 Y Y
5.7702 Y 1 Y
5.6960 Y E Y
5.6218 Y Y
5.5476 Y Y
5.4734 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 0 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.73

2.66

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1700.           | 1.0000             |
| 10         | 1430.           | 0.8412             |
| 20         | 1203.           | 0.7076             |
| 30         | 1012.           | 0.5953             |
| 40         | 851.            | 0.5008             |
| 50         | 716.            | 0.4213             |
| 60         | 602.            | 0.3544             |
| 80         | 426.            | 0.2508             |
| 100        | 302.            | 0.1775             |
| 200        | 54.             | 0.0315             |



## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.33731 | -0.01531 | 0.98615 | 0.97250   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1100.          | 7.00397     | 7.03101    |
| 2 | 40.       | 800.           | 6.68586     | 6.72471    |
| 3 | 60.       | 650.           | 6.47851     | 6.41841    |
| 4 | 80.       | 500.           | 6.21661     | 6.11211    |
| 5 | 100.      | 300.           | 5.70711     | 5.80582    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.3826 Y Y
7.3041 Y Y
7.2257 Y Y
7.1473 Y Y
7.0688 Y1 Y
6.9904 Y Y
6.9120 Y Y
6.8335 Y Y
6.7551 Y 1 Y
6.6767 Y Y
6.5982 Y Y
6.5198 Y 1 Y
6.4414 Y E Y
6.3629 Y Y
6.2845 Y 1 Y
6.2061 Y E Y
6.1276 Y Y
6.0492 Y Y
5.9708 Y Y
5.8923 Y Y
5.8139 Y E Y
5.7355 Y 1 Y
5.6571 Y Y
5.5786 Y Y
5.5002 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 6 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.70

2.71

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1800.           | 1.0000             |
| 10         | 1519.           | 0.8437             |
| 20         | 1281.           | 0.7118             |
| 30         | 1081.           | 0.6005             |
| 40         | 912.            | 0.5066             |
| 50         | 769.            | 0.4274             |
| 60         | 649.            | 0.3606             |
| 80         | 462.            | 0.2567             |
| 100        | 329.            | 0.1827             |
| 200        | 60.             | 0.0334             |

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.81141 | -0.02042 | 0.98177 | 0.96387   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 550.           | 6.31173     | 6.40302    |
| 2 | 40.       | 400.           | 5.99396     | 5.99463    |
| 3 | 60.       | 300.           | 5.70711     | 5.58625    |
| 4 | 80.       | 200.           | 5.30330     | 5.17786    |
| 5 | 100.      | 100.           | 4.61512     | 4.76947    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.7232  Y                                     Y
6.6296  Y                                     Y
6.5361  Y                                     Y
6.4425  YE                                    Y
6.3490  Y1                                    Y
6.2554  Y                                     Y
6.1619  Y                                     Y
6.0683  Y      1                             Y
5.9748  Y                                     Y
5.8812  Y                                     Y
5.7877  Y      1                             Y
5.6941  Y                                     Y
5.6005  Y      E                             Y
5.5070  Y                                     Y
5.4134  Y                                     Y
5.3199  Y      1                             Y
5.2263  Y      E                             Y
5.1328  Y                                     Y
5.0392  Y                                     Y
4.9457  Y                                     Y
4.8521  Y      E Y
4.7586  Y                                     Y
4.6650  Y      1 Y
4.5715  Y                                     Y
4.4779  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

2.03

2.27

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1200.           | 1.0000             |
| 10         | 980.            | 0.8165             |
| 20         | 800.            | 0.6667             |
| 30         | 653.            | 0.5444             |
| 40         | 533.            | 0.4445             |
| 50         | 436.            | 0.3630             |
| 60         | 356.            | 0.2964             |
| 80         | 237.            | 0.1976             |
| 100        | 158.            | 0.1317             |
| 200        | 21.             | 0.0174             |

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.38637 | -0.01132 | 0.99251 | 0.98509   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1300.          | 7.17089     | 7.15989    |
| 2 | 40.       | 1000.          | 6.90875     | 6.93340    |
| 3 | 60.       | 800.           | 6.68586     | 6.70692    |
| 4 | 80.       | 700.           | 6.55251     | 6.48044    |
| 5 | 100.      | 500.           | 6.21661     | 6.25396    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.5294  Y                                     Y
7.4645  Y                                     Y
7.3995  Y                                     Y
7.3346  Y                                     Y
7.2696  Y                                     Y
7.2047  Y1                                    Y
7.1398  Y                                     Y
7.0748  Y                                     Y
7.0099  Y                                     Y
6.9449  Y          1                         Y
6.8800  Y                                     Y
6.8150  Y                                     Y
6.7501  Y          1                         Y
6.6851  Y                                     Y
6.6202  Y                                     Y
6.5552  Y          1                         Y
6.4903  Y          E                         Y
6.4253  Y                                     Y
6.3604  Y                                     Y
6.2955  Y          E Y                       Y
6.2305  Y          1 Y                       Y
6.1656  Y                                     Y
6.1006  Y                                     Y
6.0357  Y                                     Y
5.9707  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

## LIGHT PROFILE ANALYSES - FOR MAY 10-11, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.22

3.78

## PREDICTED VALUES

-----

DEPTH (cm)

MICRO EINSTEINS

PERCENT OF SURFACE

-----

-----

-----

0

1900.

1.0000

10

1682.

0.8852

20

1489.

0.7836

30

1318.

0.6937

40

1167.

0.6141

50

1033.

0.5436

60

914.

0.4812

80

716.

0.3771

100

561.

0.2955

200

166.

0.0873

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.02895 | -0.03231 | 0.99491 | 0.98986   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 600.           | 6.39859     | 6.38274    |
| 2 | 40.       | 300.           | 5.70711     | 5.73654    |
| 3 | 60.       | 150.           | 5.01728     | 5.09034    |
| 4 | 80.       | 100.           | 4.61512     | 4.44413    |
| 5 | 100.      | 40.            | 3.71357     | 3.79793    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.7185 Y Y
6.5909 Y Y
6.4633 Y1 Y
6.3356 Y Y
6.2080 Y Y
6.0804 Y Y
5.9528 Y Y
5.8251 Y 1 Y
5.6975 Y Y
5.5699 Y Y
5.4423 Y Y
5.3146 Y Y
5.1870 Y E Y
5.0594 Y 1 Y
4.9318 Y Y
4.8041 Y Y
4.6765 Y 1 Y
4.5489 Y E Y
4.4213 Y Y
4.2936 Y Y
4.1660 Y Y
4.0384 Y Y
3.9108 Y E Y
3.7831 Y 1 Y
3.6555 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 0 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

3.47

1.33

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 2000.           | 1.0000             |
| 10         | 1414.           | 0.7071             |
| 20         | 1000.           | 0.4999             |
| 30         | 707.            | 0.3535             |
| 40         | 500.            | 0.2499             |
| 50         | 353.            | 0.1767             |
| 60         | 250.            | 0.1250             |
| 80         | 125.            | 0.0625             |
| 100        | 62.             | 0.0312             |
| 200        | 2.              | 0.0010             |



## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.45582 | -0.01549 | 0.96396 | 0.92921   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 550.           | 6.31173     | 6.14606    |
| 2 | 40.       | 300.           | 5.70711     | 5.83631    |
| 3 | 60.       | 220.           | 5.39816     | 5.52656    |
| 4 | 80.       | 180.           | 5.19850     | 5.21680    |
| 5 | 100.      | 150.           | 5.01728     | 4.90705    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.6273 Y Y
6.5487 Y Y
6.4701 Y Y
6.3914 Y Y
6.3128 Y1 Y
6.2342 Y Y
6.1556 YE Y
6.0769 Y Y
5.9983 Y Y
5.9197 Y Y
5.8411 Y E Y
5.7624 Y 1 Y
5.6838 Y Y
5.6052 Y Y
5.5266 Y E Y
5.4480 Y 1 Y
5.3693 Y Y
5.2907 Y E Y
5.2121 Y 1 Y
5.1335 Y Y
5.0548 Y 1 Y
4.9762 Y E Y
4.8976 Y Y
4.8190 Y Y
4.7403 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.30

2.00

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1200. | 1.0000 |
| 10  | 953.  | 0.7944 |
| 20  | 757.  | 0.6310 |
| 30  | 602.  | 0.5013 |
| 40  | 478.  | 0.3982 |
| 50  | 380.  | 0.3163 |
| 60  | 302.  | 0.2513 |
| 80  | 190.  | 0.1586 |
| 100 | 120.  | 0.1001 |
| 200 | 12.   | 0.0100 |

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.23306 | -0.01951 | 0.99556 | 0.99115   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.84282    |
| 2 | 40.       | 600.           | 6.39859     | 6.45258    |
| 3 | 60.       | 400.           | 5.99396     | 6.06235    |
| 4 | 80.       | 300.           | 5.70711     | 5.67211    |
| 5 | 100.      | 200.           | 5.30330     | 5.28187    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1647 Y Y
7.0753 Y Y
6.9858 Y1 Y
6.8964 YE Y
6.8069 Y Y
6.7175 Y Y
6.6280 Y Y
6.5385 Y E Y
6.4491 Y 1 Y
6.3596 Y Y
6.2702 Y Y
6.1807 Y Y
6.0913 Y E Y
6.0018 Y 1 Y
5.9123 Y Y
5.8229 Y Y
5.7334 Y 1 Y
5.6440 Y Y
5.5545 Y Y
5.4651 Y Y
5.3756 Y 1 Y
5.2861 Y E Y
5.1967 Y Y
5.1072 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.97

2.34

## PREDICTED VALUES

-----

DEPTH (cm)

MICRO EINSTEINS

PERCENT OF SURFACE

-----

-----

-----

0

1700.

1.0000

10

1396.

0.8212

20

1146.

0.6744

30

941.

0.5538

40

773.

0.4548

50

635.

0.3735

60

521.

0.3067

80

352.

0.2068

100

237.

0.1395

200

33.

0.0195

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.96589 | -0.01506 | 0.99261 | 0.98527   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 800.           | 6.68586     | 6.66466    |
| 2 | 40.       | 600.           | 6.39859     | 6.36343    |
| 3 | 60.       | 400.           | 5.99396     | 6.06220    |
| 4 | 80.       | 300.           | 5.70711     | 5.76097    |
| 5 | 100.      | 250.           | 5.52545     | 5.45974    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0202 Y Y
6.9468 Y Y
6.8735 Y Y
6.8001 Y Y
6.7268 Y1 Y
6.6535 Y Y
6.5801 Y Y
6.5068 Y Y
6.4335 Y 1 Y
6.3601 Y Y
6.2868 Y Y
6.2135 Y Y
6.1401 Y Y
6.0668 Y 1 Y
5.9934 Y Y
5.9201 Y Y
5.8468 Y Y
5.7734 Y 1 Y
5.7001 Y Y
5.6268 Y Y
5.5534 Y 1 Y
5.4801 Y E Y
5.4068 Y Y
5.3334 Y Y
5.2601 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR JUNE 22-23, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.97

2.34

## PREDICTED VALUES

-----

DEPTH (cm)

MICRO EINSTEINS

PERCENT OF SURFACE

-----

-----

-----

0

1500.

1.0000

10

1232.

0.8212

20

1012.

0.6743

30

831.

0.5538

40

682.

0.4547

50

560.

0.3734

60

460.

0.3067

80

310.

0.2068

100

209.

0.1394

200

29.

0.0194

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.89393 | -0.04694 | 0.98960 | 0.97930   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 500.           | 6.21661     | 5.95507    |
| 2 | 40.       | 120.           | 4.79579     | 5.01620    |
| 3 | 60.       | 50.            | 3.93183     | 4.07733    |
| 4 | 80.       | 20.            | 3.04452     | 3.13846    |
| 5 | 100.      | 10.            | 2.39790     | 2.19959    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.5274  Y                                                    Y
6.3499  Y1                                                    Y
6.1724  Y                                                    Y
5.9949  YE                                                    Y
5.8174  Y                                                    Y
5.6399  Y                                                    Y
5.4624  Y                                                    Y
5.2848  Y                                                    Y
5.1073  Y      E      Y
4.9298  Y      1      Y
4.7523  Y                                                    Y
4.5748  Y                                                    Y
4.3973  Y                                                    Y
4.2198  Y      E      Y
4.0423  Y      1      Y
3.8647  Y                                                    Y
3.6872  Y                                                    Y
3.5097  Y                                                    Y
3.3322  Y                                                    Y
3.1547  Y      1      Y
2.9772  Y                                                    Y
2.7997  Y                                                    Y
2.6221  Y                                                    Y
2.4446  Y      1      Y
2.2671  Y      E      Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

5.39

0.85

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1900. | 1.0000 |
| 10  | 1108. | 0.5831 |
| 20  | 646.  | 0.3401 |
| 30  | 377.  | 0.1983 |
| 40  | 220.  | 0.1156 |
| 50  | 128.  | 0.0674 |
| 60  | 75.   | 0.0393 |
| 80  | 25.   | 0.0134 |
| 100 | 9.    | 0.0045 |
| 200 | 0.    | 0.0000 |



## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.62082 | -0.03701 | 0.99670 | 0.99342   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 400.           | 5.99396     | 5.88055    |
| 2 | 40.       | 150.           | 5.01728     | 5.14027    |
| 3 | 60.       | 75.            | 4.33073     | 4.40000    |
| 4 | 80.       | 40.            | 3.71357     | 3.65972    |
| 5 | 100.      | 18.            | 2.94444     | 2.91945    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.2937 Y Y
6.1529 Y Y
6.0120 Y1 Y
5.8712 Y Y
5.7304 Y Y
5.5896 Y Y
5.4488 Y Y
5.3080 Y Y
5.1672 Y E Y
5.0264 Y 1 Y
4.8856 Y Y
4.7448 Y Y
4.6040 Y Y
4.4632 Y 1 Y
4.3224 Y Y
4.1816 Y Y
4.0407 Y Y
3.8999 Y Y
3.7591 Y 1 Y
3.6183 Y Y
3.4775 Y Y
3.3367 Y Y
3.1959 Y Y
3.0551 Y 1 Y
2.9143 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 6 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

4.96

0.93

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 2000.           | 1.0000             |
| 10         | 1218.           | 0.6088             |
| 20         | 741.            | 0.3706             |
| 30         | 451.            | 0.2256             |
| 40         | 275.            | 0.1374             |
| 50         | 167.            | 0.0836             |
| 60         | 102.            | 0.0509             |
| 80         | 38.             | 0.0189             |
| 100        | 14.             | 0.0070             |
| 200        | 0.              | 0.0000             |

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.98040 | -0.02614 | 0.99444 | 0.98892   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 700.           | 6.55251     | 6.45759    |
| 2 | 40.       | 350.           | 5.86079     | 5.93478    |
| 3 | 60.       | 200.           | 5.30330     | 5.41196    |
| 4 | 80.       | 140.           | 4.94876     | 4.88915    |
| 5 | 100.      | 80.            | 4.39445     | 4.36633    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.8801  Y                                     Y
6.7708  Y                                     Y
6.6616  Y1                                    Y
6.5523  YE                                    Y
6.4430  Y                                     Y
6.3337  Y                                     Y
6.2244  Y                                     Y
6.1151  Y                                     Y
6.0059  Y      E                             Y
5.8966  Y      1                             Y
5.7873  Y                                     Y
5.6780  Y                                     Y
5.5687  Y                                     Y
5.4594  Y      E                             Y
5.3501  Y      1                             Y
5.2409  Y                                     Y
5.1316  Y                                     Y
5.0223  Y      1                             Y
4.9130  Y      E                             Y
4.8037  Y                                     Y
4.6944  Y                                     Y
4.5852  Y                                     Y
4.4759  Y      1 Y
4.3666  Y      E Y
4.2573  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 12 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

3.05

1.51

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1600.           | 1.0000             |
| 10         | 1179.           | 0.7368             |
| 20         | 869.            | 0.5429             |
| 30         | 640.            | 0.4001             |
| 40         | 472.            | 0.2948             |
| 50         | 348.            | 0.2172             |
| 60         | 256.            | 0.1601             |
| 80         | 139.            | 0.0869             |
| 100        | 75.             | 0.0472             |
| 200        | 4.              | 0.0022             |

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.22428 | -0.01779 | 0.99066 | 0.98141   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.86838    |
| 2 | 40.       | 600.           | 6.39859     | 6.51248    |
| 3 | 60.       | 500.           | 6.21661     | 6.15658    |
| 4 | 80.       | 350.           | 5.86079     | 5.80068    |
| 5 | 100.      | 220.           | 5.39816     | 5.44478    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1692 Y Y
7.0841 Y Y
6.9991 Y Y
6.9140 Y1 Y
6.8290 Y Y
6.7440 Y Y
6.6589 Y Y
6.5739 Y E Y
6.4889 Y Y
6.4038 Y 1 Y
6.3188 Y Y
6.2337 Y 1 Y
6.1487 Y Y
6.0637 Y Y
5.9786 Y Y
5.8936 Y 1 Y
5.8086 Y E Y
5.7235 Y Y
5.6385 Y Y
5.5534 Y Y
5.4684 Y 1 Y
5.3834 Y Y
5.2983 Y Y
5.2133 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR JULY 12-13 1999

\*\*\*\*\*

STATION 20 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

1.69

2.73

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1500.           | 1.0000             |
| 10         | 1267.           | 0.8446             |
| 20         | 1070.           | 0.7133             |
| 30         | 904.            | 0.6024             |
| 40         | 763.            | 0.5088             |
| 50         | 645.            | 0.4297             |
| 60         | 544.            | 0.3629             |
| 80         | 388.            | 0.2589             |
| 100        | 277.            | 0.1847             |
| 200        | 51.             | 0.0341             |

LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999  
 \*\*\*\*\*

STATION 0 0/00  
 -----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.02370 | -0.04304 | 0.99879 | 0.99759   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 500.           | 6.21661     | 6.16291    |
| 2 | 40.       | 200.           | 5.30330     | 5.30213    |
| 3 | 60.       | 75.            | 4.33073     | 4.44135    |
| 4 | 80.       | 35.            | 3.58352     | 3.58057    |
| 5 | 100.      | 15.            | 2.77259     | 2.71979    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.5274  Y                                     Y
6.3697  Y1                                     Y
6.2119  YE                                     Y
6.0542  Y                                     Y
5.8965  Y                                     Y
5.7387  Y                                     Y
5.5810  Y                                     Y
5.4232  Y      1                             Y
5.2655  Y                                     Y
5.1077  Y                                     Y
4.9500  Y                                     Y
4.7922  Y                                     Y
4.6345  Y                                     Y
4.4767  Y      1                             Y
4.3190  Y                                     Y
4.1613  Y                                     Y
4.0035  Y                                     Y
3.8458  Y                                     Y
3.6880  Y      1                             Y
3.5303  Y                                     Y
3.3725  Y                                     Y
3.2148  Y                                     Y
3.0570  Y                                     Y
2.8993  Y      1  Y
2.7415  Y      E  Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

4.67

0.99

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 2000. | 1.0000 |
| 10  | 1254. | 0.6268 |
| 20  | 786.  | 0.3929 |
| 30  | 492.  | 0.2462 |
| 40  | 309.  | 0.1543 |
| 50  | 193.  | 0.0967 |
| 60  | 121.  | 0.0606 |
| 80  | 48.   | 0.0238 |
| 100 | 19.   | 0.0094 |
| 200 | 0.    | 0.0001 |



## LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.81310 | -0.02423 | 0.98641 | 0.97301   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 650.           | 6.47851     | 6.32844    |
| 2 | 40.       | 300.           | 5.70711     | 5.84378    |
| 3 | 60.       | 200.           | 5.30330     | 5.35912    |
| 4 | 80.       | 120.           | 4.79579     | 4.87445    |
| 5 | 100.      | 90.            | 4.51086     | 4.38979    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.8024 Y Y
6.6971 Y Y
6.5919 Y Y
6.4866 Y1 Y
6.3813 YE Y
6.2760 Y Y
6.1707 Y Y
6.0654 Y Y
5.9602 Y Y
5.8549 Y E Y
5.7496 Y 1 Y
5.6443 Y Y
5.5390 Y Y
5.4337 Y E Y
5.3284 Y 1 Y
5.2232 Y Y
5.1179 Y Y
5.0126 Y Y
4.9073 Y E Y
4.8020 Y 1 Y
4.6967 Y Y
4.5914 Y 1 Y
4.4862 Y E Y
4.3809 Y Y
4.2756 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.88

1.60

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1700. | 1.0000 |
| 10  | 1274. | 0.7494 |
| 20  | 955.  | 0.5616 |
| 30  | 715.  | 0.4208 |
| 40  | 536.  | 0.3154 |
| 50  | 402.  | 0.2363 |
| 60  | 301.  | 0.1771 |
| 80  | 169.  | 0.0995 |
| 100 | 95.   | 0.0559 |
| 200 | 5.    | 0.0031 |

## LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.14886 | -0.01846 | 0.99847 | 0.99694   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 900.           | 6.80351     | 6.77967    |
| 2 | 40.       | 600.           | 6.39859     | 6.41048    |
| 3 | 60.       | 400.           | 5.99396     | 6.04130    |
| 4 | 80.       | 300.           | 5.70711     | 5.67211    |
| 5 | 100.      | 200.           | 5.30330     | 5.30292    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.1437 Y Y
7.0594 Y Y
6.9752 Y Y
6.8910 Y Y
6.8067 Y1 Y
6.7225 Y Y
6.6383 Y Y
6.5540 Y Y
6.4698 Y 1 Y
6.3856 Y Y
6.3013 Y Y
6.2171 Y Y
6.1328 Y Y
6.0486 Y 1 Y
5.9644 Y Y
5.8801 Y Y
5.7959 Y Y
5.7117 Y 1 Y
5.6274 Y Y
5.5432 Y Y
5.4590 Y Y
5.3747 Y 1 Y
5.2905 Y Y
5.2062 Y Y
5.1220 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.88

2.45

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1800. | 1.0000 |
| 10  | 1491. | 0.8285 |
| 20  | 1236. | 0.6864 |
| 30  | 1024. | 0.5687 |
| 40  | 848.  | 0.4712 |
| 50  | 703.  | 0.3904 |
| 60  | 582.  | 0.3234 |
| 80  | 400.  | 0.2220 |
| 100 | 274.  | 0.1524 |
| 200 | 42.   | 0.0232 |

## LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 7.10275 | -0.01268 | 0.99146 | 0.98299   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 1000.          | 6.90875     | 6.84905    |
| 2 | 40.       | 700.           | 6.55251     | 6.59535    |
| 3 | 60.       | 530.           | 6.27476     | 6.34166    |
| 4 | 80.       | 450.           | 6.11147     | 6.08796    |
| 5 | 100.      | 350.           | 5.86079     | 5.83426    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.2542 Y Y
7.1857 Y Y
7.1173 Y Y
7.0488 Y Y
6.9803 Y Y
6.9119 Y1 Y
6.8434 Y Y
6.7749 Y Y
6.7065 Y Y
6.6380 Y E Y
6.5695 Y 1 Y
6.5011 Y Y
6.4326 Y Y
6.3641 Y E Y
6.2957 Y 1 Y
6.2272 Y Y
6.1587 Y 1 Y
6.0903 Y E Y
6.0218 Y Y
5.9533 Y Y
5.8849 Y 1 Y
5.8164 Y Y
5.7479 Y Y
5.6795 Y Y
5.6110 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR AUGUST 17-18, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.25

3.69

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1600. | 1.0000 |
| 10  | 1412. | 0.8827 |
| 20  | 1247. | 0.7792 |
| 30  | 1101. | 0.6878 |
| 40  | 971.  | 0.6072 |
| 50  | 858.  | 0.5360 |
| 60  | 757.  | 0.4731 |
| 80  | 590.  | 0.3687 |
| 100 | 460.  | 0.2873 |
| 200 | 132.  | 0.0825 |

## LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 &amp; 17, 1

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.69114 | -0.04101 | 0.99359 | 0.98723   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 400.           | 5.99396     | 5.87095    |
| 2 | 40.       | 150.           | 5.01728     | 5.05075    |
| 3 | 60.       | 60.            | 4.11087     | 4.23056    |
| 4 | 80.       | 25.            | 3.25810     | 3.41037    |
| 5 | 100.      | 15.            | 2.77259     | 2.59017    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.2937 Y Y
6.1403 Y1 Y
5.9870 YE Y
5.8337 Y Y
5.6804 Y Y
5.5271 Y Y
5.3737 Y Y
5.2204 Y Y
5.0671 Y 1 Y
4.9138 Y Y
4.7605 Y Y
4.6071 Y Y
4.4538 Y Y
4.3005 Y E Y
4.1472 Y 1 Y
3.9939 Y Y
3.8405 Y Y
3.6872 Y Y
3.5339 Y E Y
3.3806 Y 1 Y
3.2273 Y Y
3.0739 Y Y
2.9206 Y 1 Y
2.7673 Y Y
2.6140 Y E Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 & 17, 1  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

4.77

0.97

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1500. | 1.0000 |
| 10  | 931.  | 0.6209 |
| 20  | 578.  | 0.3855 |
| 30  | 359.  | 0.2394 |
| 40  | 223.  | 0.1486 |
| 50  | 138.  | 0.0923 |
| 60  | 86.   | 0.0573 |
| 80  | 33.   | 0.0221 |
| 100 | 13.   | 0.0085 |
| 200 | 0.    | 0.0001 |



LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 & 17, 1  
\*\*\*\*\*

STATION     6   o/oo  
-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.54566 | -0.02341 | 0.98638 | 0.97295   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 500.           | 6.21661     | 6.07745    |
| 2 | 40.       | 250.           | 5.52545     | 5.60925    |
| 3 | 60.       | 150.           | 5.01728     | 5.14104    |
| 4 | 80.       | 100.           | 4.61512     | 4.67283    |
| 5 | 100.      | 75.            | 4.33073     | 4.20462    |

| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |        |        |        |        |         |
|--------------------------------------------------------------|--------|--------|--------|--------|---------|
| 6.5274                                                       | Y      |        |        |        | Y       |
| 6.4261                                                       | Y      |        |        |        | Y       |
| 6.3248                                                       | Y      |        |        |        | Y       |
| 6.2235                                                       | Y1     |        |        |        | Y       |
| 6.1221                                                       | YE     |        |        |        | Y       |
| 6.0208                                                       | Y      |        |        |        | Y       |
| 5.9195                                                       | Y      |        |        |        | Y       |
| 5.8182                                                       | Y      |        |        |        | Y       |
| 5.7169                                                       | Y      |        |        |        | Y       |
| 5.6155                                                       | Y      | 1      |        |        | Y       |
| 5.5142                                                       | Y      |        |        |        | Y       |
| 5.4129                                                       | Y      |        |        |        | Y       |
| 5.3116                                                       | Y      |        |        |        | Y       |
| 5.2103                                                       | Y      |        | E      |        | Y       |
| 5.1089                                                       | Y      |        | 1      |        | Y       |
| 5.0076                                                       | Y      |        |        |        | Y       |
| 4.9063                                                       | Y      |        |        |        | Y       |
| 4.8050                                                       | Y      |        |        |        | Y       |
| 4.7036                                                       | Y      |        |        | 1      | Y       |
| 4.6023                                                       | Y      |        |        |        | Y       |
| 4.5010                                                       | Y      |        |        |        | Y       |
| 4.3997                                                       | Y      |        |        |        | 1 Y     |
| 4.2984                                                       | Y      |        |        |        | E Y     |
| 4.1970                                                       | Y      |        |        |        | Y       |
| 4.0957                                                       | Y      |        |        |        | Y       |
| XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |        |        |        |        |         |
| 19.000                                                       | 34.480 | 51.680 | 68.880 | 86.080 | 103.280 |

LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 & 17, 1  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.94

1.56

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1400. | 1.0000 |
| 10  | 1043. | 0.7449 |
| 20  | 777.  | 0.5549 |
| 30  | 579.  | 0.4134 |
| 40  | 431.  | 0.3080 |
| 50  | 321.  | 0.2294 |
| 60  | 239.  | 0.1709 |
| 80  | 133.  | 0.0948 |
| 100 | 74.   | 0.0526 |
| 200 | 4.    | 0.0028 |

## LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 &amp; 17, 1

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.09054 | -0.02497 | 0.99486 | 0.98974   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 800.           | 6.68586     | 6.59117    |
| 2 | 40.       | 400.           | 5.99396     | 6.09179    |
| 3 | 60.       | 250.           | 5.52545     | 5.59241    |
| 4 | 80.       | 170.           | 5.14166     | 5.09303    |
| 5 | 100.      | 100.           | 4.61512     | 4.59366    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0202  Y                                     Y
6.9139  Y                                     Y
6.8077  Y                                     Y
6.7014  Y1                                  Y
6.5952  YE                                  Y
6.4889  Y                                     Y
6.3827  Y                                     Y
6.2764  Y                                     Y
6.1702  Y      E                             Y
6.0639  Y      1                             Y
5.9577  Y                                     Y
5.8514  Y                                     Y
5.7452  Y                                     Y
5.6389  Y      E                             Y
5.5327  Y      1                             Y
5.4264  Y                                     Y
5.3202  Y                                     Y
5.2139  Y      1                             Y
5.1077  Y      E                             Y
5.0015  Y                                     Y
4.8952  Y                                     Y
4.7890  Y                                     Y
4.6827  Y      1                             Y
4.5765  Y                                     Y
4.4702  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 & 17, 1  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.75

1.67

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1800. | 1.0000 |
| 10  | 1367. | 0.7593 |
| 20  | 1038. | 0.5766 |
| 30  | 788.  | 0.4378 |
| 40  | 598.  | 0.3325 |
| 50  | 454.  | 0.2525 |
| 60  | 345.  | 0.1917 |
| 80  | 199.  | 0.1105 |
| 100 | 115.  | 0.0637 |
| 200 | 7.    | 0.0041 |

## LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 &amp; 17, 1

\*\*\*\*\*

STATION 20 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.14886 | -0.01846 | 0.99847 | 0.99694   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 900.           | 6.80351     | 6.77967    |
| 2 | 40.       | 600.           | 6.39859     | 6.41048    |
| 3 | 60.       | 400.           | 5.99396     | 6.04130    |
| 4 | 80.       | 300.           | 5.70711     | 5.67211    |
| 5 | 100.      | 200.           | 5.30330     | 5.30292    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.1437 Y Y
7.0594 Y Y
6.9752 Y Y
6.8910 Y Y
6.8067 Y1 Y
6.7225 Y Y
6.6383 Y Y
6.5540 Y Y
6.4698 Y 1 Y
6.3856 Y Y
6.3013 Y Y
6.2171 Y Y
6.1328 Y Y
6.0486 Y 1 Y
5.9644 Y Y
5.8801 Y Y
5.7959 Y Y
5.7117 Y 1 Y
5.6274 Y Y
5.5432 Y Y
5.4590 Y Y
5.3747 Y 1 Y
5.2905 Y Y
5.2062 Y Y
5.1220 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR SEPTEMBER 12 & 17, 1  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.94

2.37

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1750. | 1.0000 |
| 10  | 1441. | 0.8233 |
| 20  | 1186. | 0.6778 |
| 30  | 977.  | 0.5581 |
| 40  | 804.  | 0.4595 |
| 50  | 662.  | 0.3783 |
| 60  | 545.  | 0.3114 |
| 80  | 369.  | 0.2111 |
| 100 | 250.  | 0.1431 |
| 200 | 36.   | 0.0205 |

## LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.30093 | -0.02992 | 0.99684 | 0.99369   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 300.           | 5.70711     | 5.70258    |
| 2 | 40.       | 150.           | 5.01728     | 5.10423    |
| 3 | 60.       | 100.           | 4.61512     | 4.50589    |
| 4 | 80.       | 50.            | 3.93183     | 3.90754    |
| 5 | 100.      | 25.            | 3.25810     | 3.30919    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.9925  Y                                     Y
5.8766  Y                                     Y
5.7607  Y1                                    Y
5.6448  Y                                     Y
5.5289  Y                                     Y
5.4130  Y                                     Y
5.2971  Y                                     Y
5.1812  Y      E                             Y
5.0653  Y      1                             Y
4.9494  Y                                     Y
4.8336  Y                                     Y
4.7177  Y      1                             Y
4.6018  Y      E                             Y
4.4859  Y                                     Y
4.3700  Y                                     Y
4.2541  Y                                     Y
4.1382  Y                                     Y
4.0223  Y      1                             Y
3.9064  Y                                     Y
3.7905  Y                                     Y
3.6746  Y                                     Y
3.5588  Y                                     Y
3.4429  Y                                     Y
3.3270  Y      1                             Y
3.2111  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

## LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 0 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

4.31

1.07

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1800.           | 1.0000             |
| 10         | 1170.           | 0.6501             |
| 20         | 761.            | 0.4226             |
| 30         | 494.            | 0.2747             |
| 40         | 321.            | 0.1786             |
| 50         | 209.            | 0.1161             |
| 60         | 136.            | 0.0755             |
| 80         | 57.             | 0.0319             |
| 100        | 24.             | 0.0135             |
| 200        | 0.              | 0.0002             |



## LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 5.13711 | -0.02661 | 0.99003 | 0.98015   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 100.           | 4.61512     | 4.60494    |
| 2 | 40.       | 50.            | 3.93183     | 4.07276    |
| 3 | 60.       | 40.            | 3.71357     | 3.54059    |
| 4 | 80.       | 20.            | 3.04452     | 3.00841    |
| 5 | 100.      | 10.            | 2.39790     | 2.47624    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.8459 Y Y
4.7432 Y Y
4.6404 Y1 Y
4.5377 Y Y
4.4350 Y Y
4.3323 Y Y
4.2296 Y Y
4.1269 Y E Y
4.0242 Y 1 Y
3.9214 Y Y
3.8187 Y Y
3.7160 Y 1 Y
3.6133 Y E Y
3.5106 Y Y
3.4079 Y Y
3.3052 Y Y
3.2024 Y Y
3.0997 Y 1 Y
2.9970 Y Y
2.8943 Y Y
2.7916 Y Y
2.6889 Y Y
2.5861 Y Y
2.4834 Y 1 Y
2.3807 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

3.61

1.28

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 400.                     | 1.0000                      |
| 10                  | 279.                     | 0.6973                      |
| 20                  | 194.                     | 0.4862                      |
| 30                  | 136.                     | 0.3391                      |
| 40                  | 95.                      | 0.2364                      |
| 50                  | 66.                      | 0.1649                      |
| 60                  | 46.                      | 0.1150                      |
| 80                  | 22.                      | 0.0559                      |
| 100                 | 11.                      | 0.0272                      |
| 200                 | 0.                       | 0.0007                      |

## LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.92723 | -0.02834 | 0.99735 | 0.99470   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 600.           | 6.39859     | 6.36049    |
| 2 | 40.       | 300.           | 5.70711     | 5.79374    |
| 3 | 60.       | 200.           | 5.30330     | 5.22700    |
| 4 | 80.       | 100.           | 4.61512     | 4.66026    |
| 5 | 100.      | 60.            | 4.11087     | 4.09351    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.7185 Y Y
6.6053 Y Y
6.4921 Y1 Y
6.3790 YE Y
6.2658 Y Y
6.1526 Y Y
6.0394 Y Y
5.9262 Y Y
5.8130 Y 1 Y
5.6998 Y Y
5.5867 Y Y
5.4735 Y Y
5.3603 Y 1 Y
5.2471 Y E Y
5.1339 Y Y
5.0207 Y Y
4.9075 Y Y
4.7943 Y Y
4.6812 Y 1 Y
4.5680 Y Y
4.4548 Y Y
4.3416 Y Y
4.2284 Y Y
4.1152 Y 1 Y
4.0020 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 12 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

2.63

1.75

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1100.           | 1.0000             |
| 10         | 846.            | 0.7691             |
| 20         | 651.            | 0.5915             |
| 30         | 500.            | 0.4549             |
| 40         | 385.            | 0.3498             |
| 50         | 296.            | 0.2691             |
| 60         | 228.            | 0.2069             |
| 80         | 135.            | 0.1224             |
| 100        | 80.             | 0.0724             |
| 200        | 6.              | 0.0052             |

LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995

\*\*\*\*\*

STATION 20 0/00

COEFFICIENTS FOR THE LINE  $Y = A + BX$

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 7.18083 | -0.02826 | 0.99403 | 0.98809   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 750.           | 6.62141     | 6.61562    |
| 2 | 40.       | 400.           | 5.99396     | 6.05041    |
| 3 | 60.       | 275.           | 5.62040     | 5.48520    |
| 4 | 80.       | 120.           | 4.79579     | 4.91999    |
| 5 | 100.      | 80.            | 4.39445     | 4.35478    |

[illegible]

LIGHT PROFILE ANALYSES - FOR OCTOBER 12-13, 1995  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.37

1.94

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1200. | 1.0000 |
| 10  | 947.  | 0.7889 |
| 20  | 747.  | 0.6224 |
| 30  | 589.  | 0.4910 |
| 40  | 465.  | 0.3874 |
| 50  | 367.  | 0.3056 |
| 60  | 289.  | 0.2411 |
| 80  | 180.  | 0.1501 |
| 100 | 112.  | 0.0934 |
| 200 | 10.   | 0.0087 |

## LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.58019 | -0.03666 | 0.99393 | 0.98790   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 400.           | 5.99396     | 5.84692    |
| 2 | 40.       | 150.           | 5.01728     | 5.11366    |
| 3 | 60.       | 70.            | 4.26268     | 4.38039    |
| 4 | 80.       | 35.            | 3.58352     | 3.64713    |
| 5 | 100.      | 20.            | 3.04452     | 2.91386    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.2937 Y Y
6.1526 Y Y
6.0116 Y1 Y
5.8706 YE Y
5.7296 Y Y
5.5886 Y Y
5.4475 Y Y
5.3065 Y Y
5.1655 Y E Y
5.0245 Y 1 Y
4.8835 Y Y
4.7424 Y Y
4.6014 Y Y
4.4604 Y E Y
4.3194 Y 1 Y
4.1784 Y Y
4.0373 Y Y
3.8963 Y Y
3.7553 Y E Y
3.6143 Y 1 Y
3.4733 Y Y
3.3323 Y Y
3.1912 Y Y
3.0502 Y 1 Y
2.9092 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

4.52

1.02

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1400. | 1.0000 |
| 10  | 891.  | 0.6366 |
| 20  | 567.  | 0.4053 |
| 30  | 361.  | 0.2580 |
| 40  | 230.  | 0.1642 |
| 50  | 146.  | 0.1046 |
| 60  | 93.   | 0.0666 |
| 80  | 38.   | 0.0270 |
| 100 | 15.   | 0.0109 |
| 200 | 0.    | 0.0001 |



## LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.73178 | -0.03407 | 0.99594 | 0.99189   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 470.           | 6.15486     | 6.05046    |
| 2 | 40.       | 200.           | 5.30330     | 5.36914    |
| 3 | 60.       | 100.           | 4.61512     | 4.68782    |
| 4 | 80.       | 50.            | 3.93183     | 4.00650    |
| 5 | 100.      | 30.            | 3.43399     | 3.32518    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.4626 Y Y
6.3305 Y Y
6.1983 Y1 Y
6.0662 YE Y
5.9340 Y Y
5.8019 Y Y
5.6697 Y Y
5.5376 Y Y
5.4054 Y 1 Y
5.2733 Y Y
5.1411 Y Y
5.0090 Y Y
4.8768 Y Y
4.7447 Y 1 Y
4.6125 Y Y
4.4804 Y Y
4.3482 Y Y
4.2161 Y Y
4.0839 Y E Y
3.9518 Y 1 Y
3.8197 Y Y
3.6875 Y Y
3.5554 Y 1 Y
3.4232 Y E Y
3.2911 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999  
\*\*\*\*\*STATION 6 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

3.70

1.24

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1300.                    | 1.0000                      |
| 10                  | 898.                     | 0.6907                      |
| 20                  | 620.                     | 0.4771                      |
| 30                  | 428.                     | 0.3296                      |
| 40                  | 296.                     | 0.2276                      |
| 50                  | 204.                     | 0.1572                      |
| 60                  | 141.                     | 0.1086                      |
| 80                  | 67.                      | 0.0518                      |
| 100                 | 32.                      | 0.0247                      |
| 200                 | 1.                       | 0.0006                      |

## LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.59514 | -0.03741 | 0.99114 | 0.98236   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 400.           | 5.99396     | 5.84692    |
| 2 | 40.       | 150.           | 5.01728     | 5.09870    |
| 3 | 60.       | 70.            | 4.26268     | 4.35049    |
| 4 | 80.       | 30.            | 3.43399     | 3.60227    |
| 5 | 100.      | 20.            | 3.04452     | 2.85405    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.2937  Y                                     Y
6.1504  Y                                     Y
6.0071  Y1                                    Y
5.8638  YE                                    Y
5.7205  Y                                     Y
5.5772  Y                                     Y
5.4339  Y                                     Y
5.2906  Y                                     Y
5.1473  Y          1                         Y
5.0040  Y                                     Y
4.8607  Y                                     Y
4.7174  Y                                     Y
4.5742  Y                                     Y
4.4309  Y          E                         Y
4.2876  Y          1                         Y
4.1443  Y                                     Y
4.0010  Y                                     Y
3.8577  Y                                     Y
3.7144  Y          E                         Y
3.5711  Y          1                         Y
3.4278  Y                                     Y
3.2845  Y                                     Y
3.1412  Y          1                         Y
2.9979  Y                                     Y
2.8546  Y          E Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

## LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

4.26

1.08

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 1300.           | 1.0000             |
| 10         | 849.            | 0.6530             |
| 20         | 554.            | 0.4264             |
| 30         | 362.            | 0.2784             |
| 40         | 236.            | 0.1818             |
| 50         | 154.            | 0.1187             |
| 60         | 101.            | 0.0775             |
| 80         | 43.             | 0.0331             |
| 100        | 18.             | 0.0141             |
| 200        | 0.              | 0.0002             |

LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999  
 \*\*\*\*\*

STATION 20 o/oo  
 -----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

|         |          |         |           |
|---------|----------|---------|-----------|
| A       | B        | R       | R SQUARED |
| 6.74744 | -0.01795 | 0.99892 | 0.99784   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 600.           | 6.39859     | 6.38841    |
| 2 | 40.       | 400.           | 5.99396     | 6.02938    |
| 3 | 60.       | 300.           | 5.70711     | 5.67035    |
| 4 | 80.       | 200.           | 5.30330     | 5.31131    |
| 5 | 100.      | 140.           | 4.94876     | 4.95228    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.7185  Y                                     Y
6.6378  Y                                     Y
6.5571  Y                                     Y
6.4765  Y1                                    Y
6.3958  YE                                    Y
6.3151  Y                                     Y
6.2344  Y                                     Y
6.1537  Y                                     Y
6.0730  Y          1                         Y
5.9923  Y                                     Y
5.9116  Y                                     Y
5.8310  Y                                     Y
5.7503  Y          1                         Y
5.6696  Y                                     Y
5.5889  Y                                     Y
5.5082  Y                                     Y
5.4275  Y                                     Y
5.3468  Y          1                         Y
5.2661  Y                                     Y
5.1855  Y                                     Y
5.1048  Y                                     Y
5.0241  Y          1                         Y
4.9434  Y                                     Y
4.8627  Y                                     Y
4.7820  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR NOVEMBER 10, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.06

2.23

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |       |        |
|-----|-------|--------|
| 0   | 1300. | 1.0000 |
| 10  | 1058. | 0.8136 |
| 20  | 861.  | 0.6620 |
| 30  | 700.  | 0.5386 |
| 40  | 570.  | 0.4383 |
| 50  | 464.  | 0.3566 |
| 60  | 377.  | 0.2901 |
| 80  | 250.  | 0.1921 |
| 100 | 165.  | 0.1272 |
| 200 | 21.   | 0.0162 |

## LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999

\*\*\*\*\*

STATION 0 0/00

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.98048 | -0.02469 | 0.99477 | 0.98957   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 600.           | 6.39859     | 6.48666    |
| 2 | 40.       | 450.           | 6.11147     | 5.99285    |
| 3 | 60.       | 250.           | 5.52545     | 5.49903    |
| 4 | 80.       | 140.           | 4.94876     | 5.00521    |
| 5 | 100.      | 90.            | 4.51086     | 4.51139    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.8110 Y Y
6.7100 Y Y
6.6089 Y Y
6.5079 YE Y
6.4069 Y1 Y
6.3059 Y Y
6.2048 Y 1 Y
6.1038 Y Y
6.0028 Y E Y
5.9018 Y Y
5.8007 Y Y
5.6997 Y Y
5.5987 Y 1 Y
5.4976 Y Y
5.3966 Y Y
5.2956 Y Y
5.1946 Y Y
5.0935 Y E Y
4.9925 Y 1 Y
4.8915 Y Y
4.7905 Y Y
4.6894 Y Y
4.5884 Y 1 Y
4.4874 Y Y
4.3863 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999  
\*\*\*\*\*STATION 0 0/00  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.65

1.74

PREDICTED VALUES  
-----

| DEPTH (cm)<br>----- | MICRO EINSTEINS<br>----- | PERCENT OF SURFACE<br>----- |
|---------------------|--------------------------|-----------------------------|
| 0                   | 1500.                    | 1.0000                      |
| 10                  | 1151.                    | 0.7671                      |
| 20                  | 883.                     | 0.5884                      |
| 30                  | 677.                     | 0.4513                      |
| 40                  | 519.                     | 0.3462                      |
| 50                  | 398.                     | 0.2656                      |
| 60                  | 306.                     | 0.2037                      |
| 80                  | 180.                     | 0.1199                      |
| 100                 | 106.                     | 0.0705                      |
| 200                 | 7.                       | 0.0050                      |



## LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999

\*\*\*\*\*

STATION 6 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 6.27459 | -0.03920 | 0.99829 | 0.99658   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 230.           | 5.44242     | 5.49055    |
| 2 | 40.       | 120.           | 4.79579     | 4.70652    |
| 3 | 60.       | 50.            | 3.93183     | 3.92249    |
| 4 | 80.       | 20.            | 3.04452     | 3.13846    |
| 5 | 100.      | 10.            | 2.39790     | 2.35443    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.7651 Y Y
5.6239 YE Y
5.4828 Y1 Y
5.3417 Y Y
5.2005 Y Y
5.0594 Y Y
4.9183 Y 1 Y
4.7771 Y E Y
4.6360 Y Y
4.4949 Y Y
4.3537 Y Y
4.2126 Y Y
4.0715 Y 1 Y
3.9303 Y E Y
3.7892 Y Y
3.6481 Y Y
3.5069 Y Y
3.3658 Y Y
3.2246 Y E Y
3.0835 Y 1 Y
2.9424 Y Y
2.8012 Y Y
2.6601 Y Y
2.5190 Y 1 Y
2.3778 Y E Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

## LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999

\*\*\*\*\*

STATION 6 0/00

-----

MEAN EXT. COEF.

ONE PERCENT LIGHT DEPTH(M)

-----

-----

3.45

1.34

## PREDICTED VALUES

-----

| DEPTH (cm) | MICRO EINSTEINS | PERCENT OF SURFACE |
|------------|-----------------|--------------------|
| -----      | -----           | -----              |
| 0          | 500.            | 1.0000             |
| 10         | 354.            | 0.7083             |
| 20         | 251.            | 0.5017             |
| 30         | 178.            | 0.3554             |
| 40         | 126.            | 0.2518             |
| 50         | 89.             | 0.1783             |
| 60         | 63.             | 0.1263             |
| 80         | 32.             | 0.0634             |
| 100        | 16.             | 0.0318             |
| 200        | 1.              | 0.0010             |

## LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999

\*\*\*\*\*

STATION 12 o/oo

-----

COEFFICIENTS FOR THE LINE  $Y = A + BX$ 

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 5.69152 | -0.02745 | 0.99511 | 0.99024   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 180.           | 5.19850     | 5.14261    |
| 2 | 40.       | 100.           | 4.61512     | 4.59370    |
| 3 | 60.       | 50.            | 3.93183     | 4.04479    |
| 4 | 80.       | 30.            | 3.43399     | 3.49588    |
| 5 | 100.      | 20.            | 3.04452     | 2.94697    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.4584  Y                                     Y
5.3521  Y                                     Y
5.2457  Y1                                    Y
5.1394  Y                                     Y
5.0330  Y                                     Y
4.9267  Y                                     Y
4.8203  Y                                     Y
4.7140  Y      1                             Y
4.6076  Y      E                             Y
4.5013  Y                                     Y
4.3949  Y                                     Y
4.2886  Y                                     Y
4.1822  Y                                     Y
4.0758  Y      E                             Y
3.9695  Y      1                             Y
3.8631  Y                                     Y
3.7568  Y                                     Y
3.6504  Y                                     Y
3.5441  Y      E                             Y
3.4377  Y      1                             Y
3.3314  Y                                     Y
3.2250  Y                                     Y
3.1187  Y                                     1 Y
3.0123  Y      E                             Y
2.9060  Y                                     Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000  34.480  51.680  68.880  86.080  103.280

```

LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999  
\*\*\*\*\*STATION 12 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

2.76

1.67

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |      |        |
|-----|------|--------|
| 0   | 400. | 1.0000 |
| 10  | 303. | 0.7584 |
| 20  | 230. | 0.5752 |
| 30  | 175. | 0.4363 |
| 40  | 132. | 0.3309 |
| 50  | 100. | 0.2510 |
| 60  | 76.  | 0.1903 |
| 80  | 44.  | 0.1095 |
| 100 | 25.  | 0.0630 |
| 200 | 2.   | 0.0040 |

LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999  
 \*\*\*\*\*

STATION 20 o/oo  
 -----

COEFFICIENTS FOR THE LINE  $Y = A + BX$

| A       | B        | R       | R SQUARED |
|---------|----------|---------|-----------|
| 5.83031 | -0.02247 | 0.97699 | 0.95450   |

| N | X = DEPTH | Y = LIGHT (ME) | LOG VALUE Y | EXPECTED Y |
|---|-----------|----------------|-------------|------------|
| 1 | 20.       | 200.           | 5.30330     | 5.38099    |
| 2 | 40.       | 150.           | 5.01728     | 4.93166    |
| 3 | 60.       | 80.            | 4.39445     | 4.48234    |
| 4 | 80.       | 70.            | 4.26268     | 4.03302    |
| 5 | 100.      | 30.            | 3.43399     | 3.58369    |

```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.6500 Y Y
5.5545 Y Y
5.4590 YE Y
5.3635 Y1 Y
5.2680 Y Y
5.1725 Y Y
5.0770 Y 1 Y
4.9815 Y E Y
4.8860 Y Y
4.7904 Y Y
4.6949 Y Y
4.5994 Y Y
4.5039 Y E Y
4.4084 Y 1 Y
4.3129 Y 1 Y
4.2174 Y Y
4.1219 Y E Y
4.0264 Y Y
3.9309 Y Y
3.8353 Y Y
3.7398 Y Y
3.6443 Y E Y
3.5488 Y Y
3.4533 Y 1 Y
3.3578 Y Y
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
19.000 34.480 51.680 68.880 86.080 103.280

```

LIGHT PROFILE ANALYSES - FOR DECEMBER 21, 1999  
\*\*\*\*\*STATION 20 o/oo  
-----MEAN EXT. COEF.  
-----ONE PERCENT LIGHT DEPTH(M)  
-----

1.73

2.66

PREDICTED VALUES  
-----DEPTH (cm)  
-----MICRO EINSTEINS  
-----PERCENT OF SURFACE  
-----

|     |      |        |
|-----|------|--------|
| 0   | 300. | 1.0000 |
| 10  | 252. | 0.8410 |
| 20  | 212. | 0.7072 |
| 30  | 178. | 0.5948 |
| 40  | 150. | 0.5002 |
| 50  | 126. | 0.4207 |
| 60  | 106. | 0.3538 |
| 80  | 75.  | 0.2502 |
| 100 | 53.  | 0.1770 |
| 200 | 9.   | 0.0313 |



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# **APPENDIX A**

## **Complete Analysis of Water Column Light Profiles**



**Back to Start**

# **APPENDIX B**

## **Complete Analysis of Carbon Uptake and Chlorophyll *a***



## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 1 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 0.44  | 0.50    | 0.42  |
| 2         | 0.44  | 0.46    | 0.37  |
| 3         | 0.46  | 0.41    | 0.29  |
| 4         | 0.47  | 0.47    | 0.34  |
| 5         | 0.42  | 0.42    | 0.31  |
| MEAN      | 0.44  | 0.45    | 0.35  |
| SD        | 0.02  | 0.03    | 0.05  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| MEAN       | % LIGHT |
|------------|---------|
| DARK 43.44 | 9.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.44  | 0.45         | 0.35  | 102.0              | 78.3  |
| CHLOROPHYLL a | 2.8   | 3.0          | 2.2   | 101.9              | 78.1  |
| C-14 DARK     | 0.04  |              |       | 107.1              | 78.6  |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.44  | 0.35     | 0.11   | 0.45   | -0.01  | 78.1             | 23.8   | 101.9  | -1.9   |
| CHLOROPHYLL a | 2.80  | 2.20     | 0.80   | 3.00   | -0.20  | 78.6             | 28.6   | 107.1  | -7.1   |
| RATIOS        | 0.16  | 0.16     | 0.13   | 0.15   | 0.00   | 1.0              | 0.8    | 1.0    | 0.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 1.69  | 0.60                          |
| MGC/M-3/EM-2 | 0.44  | 0.16                          |

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 5.6

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.93  | 3.51    | 3.11  | 89.2   | 79.2  |
| 2         | 7.54  | 6.74    | 4.67  | 89.4   | 62.0  |
| 3         | 2.92  | 3.04    | 2.50  | 103.9  | 85.3  |
| 4         | 4.79  | 4.22    | 3.35  | 88.1   | 70.0  |
| 5         | 4.46  | 4.19    | 4.28  | 94.0   | 95.9  |
| MEAN      | 4.73  | 4.34    | 3.58  | 92.9   | 78.5  |
| SD        | 1.54  | 1.28    | 0.79  | 5.8    | 11.8  |

|      |        |         |
|------|--------|---------|
|      | MEAN   | % LIGHT |
| DARK | 227.78 | 4.8     |

|                          | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|--------------------------|-------|--------|-------|--------------|-------|--------------------|-------|
|                          |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT CHLOROPHYLL a | 4.73  | 4.34   | 3.58  | 92.9         | 78.5  | 91.8               | 75.8  |
| C-14 DARK                | 0.23  |        |       |              |       | 77.2               | 45.8  |

|               |        | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|--------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               | TOTAL  | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 4.73   | 3.58     | 0.76   | 4.34   | 0.39   | 75.8             | 16.0   | 91.8   | 8.2    |
| CHLOROPHYLL a | 111.80 | 51.20    | 35.10  | 86.30  | 25.50  | 45.8             | 31.4   | 77.2   | 22.8   |
| RATIOS        | 0.04   | 0.07     | 0.02   | 0.05   | 0.02   | 1.7              | 0.5    | 1.2    | 0.4    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| ----         | ----  | -----                         |
| MGC/M-3/HR   | 17.43 | 0.16                          |
| MGC/M-3/EM-2 | 4.73  | 0.04                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 11.7

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.48  | 3.39    | 3.47  | 97.5   | 99.6  |
| 2         | 3.60  | 3.22    | 2.94  | 89.5   | 81.5  |
| 3         | 5.86  | 4.26    | 3.52  | 72.7   | 60.1  |
| 4         | 6.15  | 5.45    | 5.12  | 88.6   | 83.2  |
| 5         | 5.51  | 4.78    | 4.06  | 86.6   | 73.7  |
| MEAN      | 4.92  | 4.22    | 3.82  | 87.0   | 79.6  |
| SD        | 1.15  | 0.84    | 0.74  | 8.0    | 12.9  |

|      |        |         |
|------|--------|---------|
|      | MEAN   | % LIGHT |
| DARK | 362.37 | 7.4     |

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 4.92  | 4.22         | 3.82  | 87.0               | 79.6  |
| CHLOROPHYLL a | 48.3  | 32.4         | 18.8  |                    |       |
| C-14 DARK     | 0.36  |              |       |                    |       |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 4.92     | 3.82  | 0.40   | 4.22   | 0.70   | 77.6             | 8.1    | 85.8   | 14.2   |  |
| CHLOROPHYLL a | 48.30    | 18.80 | 13.60  | 32.40  | 15.90  | 38.9             | 28.2   | 67.1   | 32.9   |  |
| RATIOS        | 0.10     | 0.20  | 0.03   | 0.13   | 0.04   | 2.0              | 0.3    | 1.3    | 0.4    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 17.65 | 0.37                          |
| MGC/M-3/EM-2 | 4.92  | 0.10                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 23.2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.64  | 0.58    | 0.39  | 91.5   | 61.6  |
| 2         | 1.06  | 0.86    | 0.81  | 81.4   | 76.1  |
| 3         | 1.03  | 0.97    | 0.92  | 93.7   | 89.1  |
| 4         | 0.85  | 0.86    | 0.76  | 100.3  | 89.7  |
| 5         | 1.27  | 1.04    | 1.01  | 81.9   | 79.4  |
| MEAN      | 0.97  | 0.86    | 0.78  | 89.7   | 79.2  |
| SD        | 0.21  | 0.15    | 0.21  | 7.2    | 10.3  |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>86.75 | % LIGHT<br>8.9 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.97  | 0.86         | 0.78  | 89.7               | 79.2  |
| CHLOROPHYLL a | 5.0   | 3.9          | 3.3   | 78.0               | 66.0  |
| C-14 DARK     | 0.09  |              |       |                    |       |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.97     | 0.78  | 0.08   | 0.86   | 0.11   | 80.2             | 8.6    | 88.8   | 11.2   |  |
| CHLOROPHYLL a | 5.00     | 3.30  | 0.60   | 3.90   | 1.10   | 66.0             | 12.0   | 78.0   | 22.0   |  |
| RATIOS        | 0.19     | 0.24  | 0.14   | 0.22   | 0.10   | 1.2              | 0.7    | 1.1    | 0.5    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 3.34  | 0.67                          |
| MGC/M-3/EM-2 | 0.97  | 0.19                          |

## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 2 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.2

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 0.35  | 0.31    | 0.29  | 87.4   | 84.0  |
| 2                                                  | 0.30  | 0.32    | 0.26  | 104.2  | 85.3  |
| 3                                                  | 0.29  | 0.32    | 0.20  | 110.5  | 69.4  |
| 4                                                  | 0.32  | 0.32    | 0.23  | 100.1  | 72.5  |
| 5                                                  | 0.29  | 0.29    | 0.22  | 99.0   | 74.1  |
| MEAN                                               | 0.31  | 0.31    | 0.24  | 100.3  | 77.1  |
| SD                                                 | 0.02  | 0.01    | 0.03  | 7.6    | 6.4   |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |               |                |
|---------------------------------------------------|---------------|----------------|
| DARK                                              | MEAN<br>30.09 | % LIGHT<br>9.7 |

| SUMMARY TABLE - MEAN VALUES |       |              |       |        |       |                    |       |
|-----------------------------|-------|--------------|-------|--------|-------|--------------------|-------|
|                             | TOTAL | MEAN PERCENT |       | < 20 u | < 5 u | CALCULATED PERCENT |       |
|                             |       | < 20 u       | < 5 u |        |       | < 20 u             | < 5 u |
| C-14 LIGHT                  | 0.31  | 0.31         | 0.24  | 100.3  | 77.1  | 99.8               | 77.3  |
| CHLOROPHYLL a               | 5.5   | 5.1          | 4.6   |        |       | 92.7               | 83.6  |
| C-14 DARK                   | 0.03  |              |       |        |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 0.31  | 0.24     | 0.07   | 0.31   | 0.00   | 77.3             | 22.5   | 99.8   | 0.2    |
| CHLOROPHYLL a                  | 5.50  | 4.60     | 0.50   | 5.10   | 0.40   | 83.6             | 9.1    | 92.7   | 7.3    |
| RATIOS                         | 0.06  | 0.05     | 0.14   | 0.06   | 0.00   | 0.9              | 2.5    | 1.1    | 0.0    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 1.27  | 0.23                          |
| MGC/M-3/EM-2                          | 0.31  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 2 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 7.1

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 2.79  | 2.49    | 2.21  |
| 2         | 5.34  | 4.78    | 3.31  |
| 3         | 2.15  | 2.07    | 1.77  |
| 4         | 3.40  | 2.99    | 2.38  |
| 5         | 3.16  | 3.03    | 2.97  |
| MEAN      | 3.37  | 3.07    | 2.53  |
| SD        | 1.07  | 0.92    | 0.55  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN   | % LIGHT |
|------|--------|---------|
|      | 161.52 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.37  | 3.07         | 2.53  | 91.8               | 77.5  |
| CHLOROPHYLL a | 51.4  | 49.4         | 38.5  | 96.1               | 74.9  |
| C-14 DARK     | 0.16  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.37  | 2.53     | 0.54   | 3.07   | 0.30   | 75.0             | 16.2   | 91.2   | 8.8    |
| CHLOROPHYLL a | 51.40 | 38.50    | 10.90  | 49.40  | 2.00   | 74.9             | 21.2   | 96.1   | 3.9    |
| RATIOS        | 0.07  | 0.07     | 0.05   | 0.06   | 0.15   | 1.0              | 0.8    | 0.9    | 2.3    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 14.06 | 0.27                          |
| MGC/M-3/EM-2 | 3.37  | 0.07                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 16.9

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

SUMMARY TABLE - MEAN VALUES

SUMMARY TABLE - SIZE FRACTIONS

### MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 17.09 | 0.77                          |
| MGC/M-3/EM-2 | 4.15  | 0.19                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 26.2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.61  | 0.45    | 0.41  | 73.9   | 67.6  |
| 2         | 0.75  | 0.57    | 0.28  | 76.1   | 37.0  |
| 3         | 0.73  | 0.68    | 0.65  | 93.7   | 89.1  |
| 4         | 0.60  | 0.60    | 0.54  | 100.3  | 89.7  |
| 5         | 0.89  | 0.73    | 0.71  | 81.9   | 79.4  |
| MEAN      | 0.72  | 0.61    | 0.52  | 85.2   | 72.6  |
| SD        | 0.11  | 0.10    | 0.16  | 10.2   | 19.5  |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>61.33 | % LIGHT<br>8.5 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.72  | 0.61         | 0.52  | 85.2               | 72.6  |
| CHLOROPHYLL a | 7.1   | 2.6          | 2.3   |                    |       |
| C-14 DARK     | 0.06  |              |       | 84.8               | 72.3  |
|               |       |              |       | 36.6               | 32.4  |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.72     | 0.52  | 0.09   | 0.61   | 0.11   | 72.3             | 12.6   | 84.8   | 15.2   |  |
| CHLOROPHYLL a | 7.10     | 2.30  | 0.30   | 2.60   | 4.50   | 32.4             | 4.2    | 36.6   | 63.4   |  |
| RATIOS        | 0.10     | 0.23  | 0.30   | 0.23   | 0.02   | 2.2              | 3.0    | 2.3    | 0.2    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 2.90  | 0.41                          |
| MGC/M-3/EM-2 | 0.72  | 0.10                          |



## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 3 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 0.44  | 0.39    | 0.37  | 87.4   | 84.0  |
| 2                                                  | 0.40  | 0.38    | 0.33  | 96.0   | 81.9  |
| 3                                                  | 0.40  | 0.36    | 0.25  | 90.5   | 62.8  |
| 4                                                  | 0.41  | 0.41    | 0.30  | 100.1  | 72.5  |
| 5                                                  | 0.37  | 0.37    | 0.28  | 101.0  | 74.8  |
| MEAN                                               | 0.40  | 0.38    | 0.30  | 95.0   | 75.2  |
| SD                                                 | 0.02  | 0.02    | 0.04  | 5.3    | 7.5   |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |               |                |
|---------------------------------------------------|---------------|----------------|
| DARK                                              | MEAN<br>38.11 | % LIGHT<br>9.4 |

| SUMMARY TABLE - MEAN VALUES |       |              |       |        |       |                    |       |
|-----------------------------|-------|--------------|-------|--------|-------|--------------------|-------|
|                             | TOTAL | MEAN PERCENT |       | < 20 u | < 5 u | CALCULATED PERCENT |       |
|                             |       | < 20 u       | < 5 u |        |       | < 20 u             | < 5 u |
| C-14 LIGHT                  | 0.40  | 0.38         | 0.30  | 95.0   | 75.2  | 94.8               | 75.4  |
| CHLOROPHYLL a               | 2.7   | 2.8          | 2.3   |        |       | 103.7              | 85.2  |
| C-14 DARK                   | 0.04  |              |       |        |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 0.40  | 0.30     | 0.08   | 0.38   | 0.02   | 75.4             | 19.4   | 94.8   | 5.2    |
| CHLOROPHYLL a                  | 2.70  | 2.30     | 0.50   | 2.80   | -0.10  | 85.2             | 18.5   | 103.7  | -3.7   |
| RATIOS                         | 0.15  | 0.13     | 0.16   | 0.14   | 0.00   | 0.9              | 1.0    | 0.9    | 0.0    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 2.01  | 0.74                          |
| MGC/M-3/EM-2                          | 0.40  | 0.15                          |

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 6.8

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

SUMMARY TABLE - MEAN VALUES

### SUMMARY TABLE - SIZE FRACTIONS

### MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 17.36 | 0.79                          |
| MGC/M-3/EM-2 | 3.53  | 0.16                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 3 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 13.8

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 2.42  | 2.41    | 2.36  | 99.6   | 97.5  |
| 2                                                  | 2.50  | 2.24    | 2.04  | 89.5   | 81.5  |
| 3                                                  | 4.07  | 2.96    | 2.45  | 72.7   | 60.1  |
| 4                                                  | 4.28  | 3.79    | 3.56  | 88.6   | 83.2  |
| 5                                                  | 3.83  | 3.32    | 2.83  | 86.6   | 73.7  |
| MEAN                                               | 3.42  | 2.95    | 2.65  | 87.4   | 79.2  |
| SD                                                 | 0.80  | 0.57    | 0.52  | 8.6    | 12.3  |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |        |         |
|---------------------------------------------------|--------|---------|
| DARK                                              | MEAN   | % LIGHT |
|                                                   | 251.97 | 7.4     |

| SUMMARY TABLE - MEAN VALUES |       |              |       |        |       |                    |       |
|-----------------------------|-------|--------------|-------|--------|-------|--------------------|-------|
|                             | TOTAL | MEAN PERCENT |       | < 20 u | < 5 u | CALCULATED PERCENT |       |
|                             |       | < 20 u       | < 5 u |        |       | < 20 u             | < 5 u |
| C-14 LIGHT                  | 3.42  | 2.95         | 2.65  | 87.4   | 79.2  | 86.1               | 77.3  |
| CHLOROPHYLL a               | 15.9  | 9.6          | 8.4   |        |       | 60.4               | 52.8  |
| C-14 DARK                   | 0.25  |              |       |        |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 3.42  | 2.65     | 0.30   | 2.95   | 0.48   | 77.3             | 8.7    | 86.1   | 13.9   |
| CHLOROPHYLL a                  | 15.90 | 8.40     | 1.20   | 9.60   | 6.30   | 52.8             | 7.5    | 60.4   | 39.6   |
| RATIOS                         | 0.22  | 0.31     | 0.25   | 0.31   | 0.08   | 1.5              | 1.2    | 1.4    | 0.4    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 16.75 | 1.05                          |
| MGC/M-3/EM-2                          | 3.42  | 0.22                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 23.4

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.48  | 0.44    | 0.30  | 91.5   | 61.6  |
| 2         | 0.81  | 0.66    | 0.61  | 81.4   | 76.1  |
| 3         | 0.78  | 0.74    | 0.70  | 93.7   | 89.1  |
| 4         | 0.65  | 0.65    | 0.58  | 100.3  | 89.7  |
| 5         | 0.96  | 0.79    | 0.76  | 81.9   | 79.4  |
| MEAN      | 0.74  | 0.65    | 0.59  | 89.7   | 79.2  |
| SD        | 0.16  | 0.12    | 0.16  | 7.2    | 10.3  |

|      |       |         |
|------|-------|---------|
|      | MEAN  | % LIGHT |
| DARK | 65.90 | 8.9     |

|               | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------|-------|--------------|-------|--------------------|-------|
|               |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.74  | 0.65   | 0.59  | 89.7         | 79.2  | 88.8               | 80.2  |
| CHLOROPHYLL a | 13.2  | 7.8    | 8.3   |              |       | 59.1               | 62.9  |
| C-14 DARK     | 0.07  |        |       |              |       |                    |       |

|               |       | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               | TOTAL | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.74  | 0.59     | 0.06   | 0.65   | 0.08   | 80.2             | 8.6    | 88.8   | 11.2   |
| CHLOROPHYLL a | 13.20 | 8.30     | -0.50  | 7.80   | 5.40   | 62.9             | -3.8   | 59.1   | 40.9   |
| RATIOS        | 0.06  | 0.07     | 0.00   | 0.08   | 0.02   | 1.3              | 0.0    | 1.5    | 0.3    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 3.54  | 0.27                          |
| MGC/M-3/EM-2 | 0.74  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 4 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       |        |       |
|                                                    |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1                                                  | 0.58  | 0.50    | 0.48  | 87.4   | 84.0  |
| 2                                                  | 0.50  | 0.52    | 0.43  | 104.2  | 85.3  |
| 3                                                  | 0.53  | 0.48    | 0.33  | 90.5   | 62.8  |
| 4                                                  | 0.53  | 0.53    | 0.39  | 100.1  | 72.5  |
| 5                                                  | 0.48  | 0.49    | 0.36  | 101.0  | 74.8  |
| MEAN                                               | 0.52  | 0.50    | 0.40  | 96.6   | 75.9  |
| SD                                                 | 0.03  | 0.02    | 0.05  | 6.5    | 8.2   |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |               |                |
|---------------------------------------------------|---------------|----------------|
| DARK                                              | MEAN<br>49.78 | % LIGHT<br>9.5 |

| SUMMARY TABLE - MEAN VALUES |       |        |       |              |       |                    |       |
|-----------------------------|-------|--------|-------|--------------|-------|--------------------|-------|
|                             |       |        |       | MEAN PERCENT |       | CALCULATED PERCENT |       |
|                             | TOTAL | < 20 u | < 5 u | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT                  | 0.52  | 0.50   | 0.40  | 96.6         | 75.9  | 96.3               | 76.0  |
| CHLOROPHYLL a               | 9.2   | 8.7    | 8.9   |              |       | 94.6               | 96.7  |
| C-14 DARK                   | 0.05  |        |       |              |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 0.52  | 0.40     | 0.11   | 0.50   | 0.02   | 76.0             | 20.4   | 96.3   | 3.7    |
| CHLOROPHYLL a                  | 9.20  | 8.90     | -0.20  | 8.70   | 0.50   | 96.7             | -2.2   | 94.6   | 5.4    |
| RATIOS                         | 0.06  | 0.04     | 0.00   | 0.06   | 0.04   | 0.8              | 0.0    | 1.0    | 0.7    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 2.60  | 0.28                          |
| MGC/M-3/EM-2                          | 0.52  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 4 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 6.9

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.41  | 3.04    | 2.70  | 89.2   | 79.2  |
| 2         | 6.53  | 5.84    | 4.05  | 89.4   | 62.0  |
| 3         | 2.63  | 2.53    | 2.16  | 96.3   | 82.2  |
| 4         | 4.15  | 3.66    | 2.91  | 88.1   | 70.0  |
| 5         | 3.86  | 3.70    | 3.63  | 95.9   | 94.0  |
| MEAN      | 4.12  | 3.75    | 3.09  | 91.8   | 77.5  |
| SD        | 1.31  | 1.13    | 0.67  | 3.5    | 10.9  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      | MEAN   | % LIGHT |
|------|--------|---------|
| DARK | 197.26 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 4.12  | 3.75         | 3.09  | 91.8               | 77.5  |
| CHLOROPHYLL a | 11.6  | 11.4         | 6.4   | 98.3               | 55.2  |
| C-14 DARK     | 0.20  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 4.12  | 3.09     | 0.66   | 3.75   | 0.36   | 75.0             | 16.2   | 91.2   | 8.8    |
| CHLOROPHYLL a | 11.60 | 6.40     | 5.00   | 11.40  | 0.20   | 55.2             | 43.1   | 98.3   | 1.7    |
| RATIOS        | 0.35  | 0.48     | 0.13   | 0.33   | 1.81   | 1.4              | 0.4    | 0.9    | 5.1    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 20.58 | 1.77                          |
| MGC/M-3/EM-2 | 4.12  | 0.35                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 15.2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 2.65  | 2.64    | 2.58  | 99.6   | 97.5  |
| 2         | 2.74  | 2.45    | 2.23  | 89.5   | 81.5  |
| 3         | 4.46  | 3.24    | 2.68  | 72.7   | 60.1  |
| 4         | 4.68  | 4.15    | 3.89  | 88.6   | 83.2  |
| 5         | 4.19  | 3.63    | 3.09  | 86.6   | 73.7  |
| MEAN      | 3.74  | 3.22    | 2.90  | 87.4   | 79.2  |
| SD        | 0.87  | 0.63    | 0.57  | 8.6    | 12.3  |

|      |        |         |
|------|--------|---------|
|      | MEAN   | % LIGHT |
| DARK | 275.69 | 7.4     |

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.74  | 3.22         | 2.90  | 87.4               | 79.2  |
| CHLOROPHYLL a | 12.0  | 9.2          | 5.2   | 76.7               | 43.3  |
| C-14 DARK     | 0.28  |              |       |                    |       |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.74     | 2.90  | 0.33   | 3.22   | 0.52   | 77.3             | 8.7    | 86.1   | 13.9   |
| CHLOROPHYLL a | 12.00    | 5.20  | 4.00   | 9.20   | 2.80   | 43.3             | 33.3   | 76.7   | 23.3   |
| RATIOS        | 0.31     | 0.56  | 0.08   | 0.35   | 0.19   | 1.8              | 0.3    | 1.1    | 0.6    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| ----         | ----  | -----                         |
| MGC/M-3/HR   | 20.35 | 1.70                          |
| MGC/M-3/EM-2 | 3.74  | 0.31                          |

## SUMMARY OF RESULTS FOR STATION 104 COLLECTED ON 4 / 99

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 26.3

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 0.47  | 0.43    | 0.29  |
| 2         | 0.79  | 0.64    | 0.60  |
| 3         | 0.76  | 0.72    | 0.68  |
| 4         | 0.63  | 0.63    | 0.57  |
| 5         | 0.94  | 0.77    | 0.74  |
| MEAN      | 0.72  | 0.64    | 0.58  |
| SD        | 0.16  | 0.11    | 0.16  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN  | % LIGHT |
|------|-------|---------|
|      | 64.26 | 8.9     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.72  | 0.64         | 0.58  | 89.7               | 79.2  |
| CHLOROPHYLL a | 12.3  | 12.1         | 9.6   | 98.4               | 78.0  |
| C-14 DARK     | 0.06  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.72  | 0.58     | 0.06   | 0.64   | 0.08   | 80.2             | 8.6    | 88.8   | 11.2   |
| CHLOROPHYLL a | 12.30 | 9.60     | 2.50   | 12.10  | 0.20   | 78.0             | 20.3   | 98.4   | 1.6    |
| RATIOS        | 0.06  | 0.06     | 0.02   | 0.05   | 0.40   | 1.0              | 0.4    | 0.9    | 6.9    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 4.03  | 0.33                          |
| MGC/M-3/EM-2 | 0.72  | 0.06                          |



SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.46  | 0.40    | 0.42  | 87.4   | 90.6  |
| 2         | 0.39  | 0.40    | 0.34  | 103.5  | 88.3  |
| 3         | 0.42  | 0.38    | 0.26  | 90.5   | 62.8  |
| 4         | 0.42  | 0.43    | 0.31  | 100.1  | 72.5  |
| 5         | 0.38  | 0.39    | 0.29  | 101.0  | 74.8  |
| MEAN      | 0.41  | 0.40    | 0.32  | 96.5   | 77.8  |
| SD        | 0.03  | 0.02    | 0.05  | 6.3    | 10.4  |

|      |       |         |
|------|-------|---------|
|      | MEAN  | % LIGHT |
| DARK | 39.59 | 9.6     |

|               |       | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               | TOTAL | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.41  | 0.40         | 0.32  | 96.5               | 77.8  |
| CHLOROPHYLL a | 7.0   | 6.0          | 5.1   |                    |       |
| C-14 DARK     | 0.04  |              |       |                    |       |

|               |       | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               | TOTAL | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.41  | 0.32     | 0.08   | 0.40   | 0.02   | 77.9             | 18.2   | 96.1   | 3.9    |
| CHLOROPHYLL a | 7.00  | 5.10     | 0.90   | 6.00   | 1.00   | 72.9             | 12.9   | 85.7   | 14.3   |
| RATIOS        | 0.06  | 0.06     | 0.08   | 0.07   | 0.02   | 1.1              | 1.4    | 1.1    | 0.3    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 1.92  | 0.27                          |
| MGC/M-3/EM-2 | 0.41  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 5 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 7.4

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 3.34  | 2.98    | 2.65  | 89.2   | 79.2  |
| 2                                                  | 6.40  | 5.73    | 3.97  | 89.4   | 62.0  |
| 3                                                  | 2.48  | 2.58    | 2.12  | 103.9  | 85.3  |
| 4                                                  | 4.07  | 3.59    | 2.85  | 88.1   | 70.0  |
| 5                                                  | 3.79  | 3.63    | 3.56  | 95.9   | 94.0  |
| MEAN                                               | 4.02  | 3.70    | 3.03  | 93.3   | 78.1  |
| SD                                                 | 1.31  | 1.09    | 0.66  | 6.0    | 11.2  |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |        |         |
|---------------------------------------------------|--------|---------|
| DARK                                              | MEAN   | % LIGHT |
|                                                   | 193.56 | 4.8     |

| SUMMARY TABLE - MEAN VALUES |       |        |       |              |       |                    |       |
|-----------------------------|-------|--------|-------|--------------|-------|--------------------|-------|
|                             | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|                             |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT                  | 4.02  | 3.70   | 3.03  | 93.3         | 78.1  | 92.1               | 75.4  |
| CHLOROPHYLL a               | 14.2  | 12.2   | 9.7   |              |       | 85.9               | 68.3  |
| C-14 DARK                   | 0.19  |        |       |              |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |       |          |        |        |       |                  |        |        |
|--------------------------------|-------|-------|----------|--------|--------|-------|------------------|--------|--------|
|                                | TOTAL | < 5 u | FRACTION |        |        | < 5 u | PERCENT OF TOTAL |        |        |
|                                |       |       | 5-20 u   | < 20 u | > 20 u |       | 5-20 u           | < 20 u | > 20 u |
| C-14 UPTAKE                    | 4.02  | 3.03  | 0.67     | 3.70   | 0.32   | 75.4  | 16.7             | 92.1   | 7.9    |
| CHLOROPHYLL a                  | 14.20 | 9.70  | 2.50     | 12.20  | 2.00   | 68.3  | 17.6             | 85.9   | 14.1   |
| RATIOS                         | 0.28  | 0.31  | 0.27     | 0.30   | 0.16   | 1.1   | 0.9              | 1.1    | 0.6    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 18.32 | 1.29                          |
| MGC/M-3/EM-2                          | 4.02  | 0.28                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 5 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 13.0

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 2.71  | 2.64    | 2.70  |
| 2         | 2.81  | 2.51    | 2.29  |
| 3         | 4.57  | 3.32    | 2.74  |
| 4         | 4.80  | 4.25    | 3.99  |
| 5         | 4.30  | 3.72    | 3.17  |
| MEAN      | 3.84  | 3.29    | 2.98  |
| SD        | 0.89  | 0.65    | 0.58  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN   | % LIGHT |
|------|--------|---------|
|      | 282.54 | 7.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED |       |
|---------------|-------|--------|-------|------------|-------|
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u |
| C-14 LIGHT    | 3.84  | 3.29   | 2.98  | 87.0       | 79.6  |
| CHLOROPHYLL a | 10.6  | 9.9    | 8.4   | 93.4       | 79.2  |
| C-14 DARK     | 0.28  |        |       |            |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.84  | 2.98     | 0.31   | 3.29   | 0.55   | 77.6             | 8.1    | 85.8   | 14.2   |
| CHLOROPHYLL a | 10.60 | 8.40     | 1.50   | 9.90   | 0.70   | 79.2             | 14.2   | 93.4   | 6.6    |
| RATIOS        | 0.36  | 0.35     | 0.21   | 0.33   | 0.78   | 1.0              | 0.6    | 0.9    | 2.2    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 17.88 | 1.69                          |
| MGC/M-3/EM-2 | 3.84  | 0.36                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 23.5

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.56  | 0.51    | 0.34  | 91.5   | 61.6  |
| 2         | 0.93  | 0.76    | 0.71  | 81.4   | 76.1  |
| 3         | 0.90  | 0.85    | 0.81  | 93.7   | 89.1  |
| 4         | 0.75  | 0.75    | 0.67  | 100.3  | 89.7  |
| 5         | 1.11  | 0.91    | 0.88  | 81.9   | 79.4  |
| MEAN      | 0.85  | 0.75    | 0.68  | 89.7   | 79.2  |
| SD        | 0.18  | 0.13    | 0.18  | 7.2    | 10.3  |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>75.91 | % LIGHT<br>8.9 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |      |      |
|---------------|-------|--------------|-------|--------------------|-------|------|------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |      |      |
| C-14 LIGHT    | 0.85  | 0.75         | 0.68  | 89.7               | 79.2  | 88.8 | 80.2 |
| CHLOROPHYLL a | 11.2  | 6.9          | 6.4   |                    |       | 61.6 | 57.1 |
| C-14 DARK     | 0.08  |              |       |                    |       |      |      |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.85     | 0.68  | 0.07   | 0.75   | 0.10   | 80.2             | 8.6    | 88.8   | 11.2   |  |
| CHLOROPHYLL a | 11.20    | 6.40  | 0.50   | 6.90   | 4.30   | 57.1             | 4.5    | 61.6   | 38.4   |  |
| RATIOS        | 0.08     | 0.11  | 0.15   | 0.11   | 0.02   | 1.4              | 1.9    | 1.4    | 0.3    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 3.99  | 0.36                          |
| MGC/M-3/EM-2 | 0.85  | 0.08                          |

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.25  | 0.22    | 0.21  | 87.4   | 84.0  |
| 2         | 0.23  | 0.22    | 0.19  | 96.0   | 81.9  |
| 3         | 0.24  | 0.23    | 0.21  | 98.5   | 89.1  |
| 4         | 0.24  | 0.17    | 0.15  | 72.4   | 61.7  |
| 5         | 0.21  | 0.21    | 0.16  | 101.0  | 74.8  |
| MEAN      | 0.23  | 0.21    | 0.18  | 91.1   | 78.3  |
| SD        | 0.01  | 0.02    | 0.03  | 10.4   | 9.5   |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>21.92 | % LIGHT<br>9.4 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.23  | 0.21         | 0.18  | 91.1               | 78.5  |
| CHLOROPHYLL a | 1.0   | 1.0          | 0.8   | 100.0              | 80.0  |
| C-14 DARK     | 0.02  |              |       |                    |       |

|               | TOTAL | FRACTION |        |        |        |  | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|--|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u |  | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.23  | 0.18     | 0.03   | 0.21   | 0.02   |  | 78.5             | 12.3   | 90.8   | 9.2    |
| CHLOROPHYLL a | 1.00  | 0.80     | 0.20   | 1.00   | 0.00   |  | 80.0             | 20.0   | 100.0  | 0.0    |
| RATIOS        | 0.23  | 0.23     | 0.14   | 0.21   | 0.00   |  | 1.0              | 0.6    | 0.9    | 0.0    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 1.15  | 1.15                          |
| MGC/M-3/EM-2 | 0.23  | 0.23                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 6 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 6.3

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 2.64  | 2.35    | 2.09  |
| 2         | 5.06  | 4.52    | 3.13  |
| 3         | 2.04  | 1.96    | 1.67  |
| 4         | 3.21  | 2.83    | 2.25  |
| 5         | 2.99  | 2.87    | 2.81  |
| MEAN      | 3.19  | 2.91    | 2.39  |
| SD        | 1.02  | 0.87    | 0.52  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| MEAN        | % LIGHT |
|-------------|---------|
| DARK 152.81 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.19  | 2.91         | 2.39  | 91.8               | 77.5  |
| CHLOROPHYLL a | 4.8   | 4.7          | 4.3   | 97.9               | 89.6  |
| C-14 DARK     | 0.15  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.19  | 2.39     | 0.52   | 2.91   | 0.28   | 75.0             | 16.2   | 91.2   | 8.8    |
| CHLOROPHYLL a | 4.80  | 4.30     | 0.40   | 4.70   | 0.10   | 89.6             | 8.3    | 97.9   | 2.1    |
| RATIOS        | 0.66  | 0.56     | 1.29   | 0.62   | 2.80   | 0.8              | 1.9    | 0.9    | 4.2    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 15.47 | 3.22                          |
| MGC/M-3/EM-2 | 3.19  | 0.66                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 6 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 12.8

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 2.40  | 2.34    | 2.39  | 97.5   | 99.6  |
| 2                                                  | 2.48  | 2.22    | 2.02  | 89.5   | 81.5  |
| 3                                                  | 4.04  | 2.94    | 2.43  | 72.7   | 60.1  |
| 4                                                  | 4.24  | 3.76    | 3.53  | 88.6   | 83.2  |
| 5                                                  | 3.80  | 3.29    | 2.80  | 86.6   | 73.7  |
| MEAN                                               | 3.39  | 2.91    | 2.63  | 87.0   | 79.6  |
| SD                                                 | 0.79  | 0.58    | 0.51  | 8.0    | 12.9  |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |        |         |
|---------------------------------------------------|--------|---------|
| DARK                                              | MEAN   | % LIGHT |
|                                                   | 249.84 | 7.4     |

| SUMMARY TABLE - MEAN VALUES |       |              |       |        |       |                    |       |
|-----------------------------|-------|--------------|-------|--------|-------|--------------------|-------|
|                             | TOTAL | MEAN PERCENT |       | < 20 u | < 5 u | CALCULATED PERCENT |       |
|                             |       | < 20 u       | < 5 u |        |       | < 20 u             | < 5 u |
| C-14 LIGHT                  | 3.39  | 2.91         | 2.63  | 87.0   | 79.6  | 85.8               | 77.6  |
| CHLOROPHYLL a               | 7.5   | 6.8          | 6.1   |        |       | 90.7               | 81.3  |
| C-14 DARK                   | 0.25  |              |       |        |       |                    |       |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 3.39  | 2.63     | 0.28   | 2.91   | 0.48   | 77.6             | 8.1    | 85.8   | 14.2   |
| CHLOROPHYLL a                  | 7.50  | 6.10     | 0.70   | 6.80   | 0.70   | 81.3             | 9.3    | 90.7   | 9.3    |
| RATIOS                         | 0.45  | 0.43     | 0.39   | 0.43   | 0.69   | 1.0              | 0.9    | 0.9    | 1.5    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MG/M-3/HR                             | 17.09 | 2.28                          |
| MG/M-3/EM-2                           | 3.39  | 0.45                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 24.2

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.50  | 0.46    | 0.31  | 91.5   | 61.6  |
| 2         | 0.83  | 0.67    | 0.63  | 81.4   | 76.1  |
| 3         | 0.80  | 0.75    | 0.72  | 93.7   | 89.1  |
| 4         | 0.66  | 0.67    | 0.60  | 100.3  | 89.7  |
| 5         | 0.99  | 0.81    | 0.78  | 81.9   | 79.4  |
| MEAN      | 0.76  | 0.67    | 0.61  | 89.7   | 79.2  |
| SD        | 0.16  | 0.12    | 0.16  | 7.2    | 10.3  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      |       |         |
|------|-------|---------|
|      | MEAN  | % LIGHT |
| DARK | 67.61 | 8.9     |

### SUMMARY TABLE - MEAN VALUES

|               | TOTAL  |       |      | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|--------|-------|------|--------------|-------|--------------------|-------|
|               | < 20 u | < 5 u |      | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.76   | 0.67  | 0.61 | 89.7         | 79.2  | 88.8               | 80.2  |
| CHLOROPHYLL a | 8.7    | 6.7   | 5.7  |              |       | 77.0               | 65.5  |
| C-14 DARK     | 0.07   |       |      |              |       |                    |       |

### SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | < 5 u | FRACTION |        |        |  |       | PERCENT OF TOTAL |        |        |  |
|---------------|-------|-------|----------|--------|--------|--|-------|------------------|--------|--------|--|
|               |       |       | 5-20 u   | < 20 u | > 20 u |  | < 5 u | 5-20 u           | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.76  | 0.61  | 0.06     | 0.67   | 0.08   |  | 80.2  | 8.6              | 88.8   | 11.2   |  |
| CHLOROPHYLL a | 8.70  | 5.70  | 1.00     | 6.70   | 2.00   |  | 65.5  | 11.5             | 77.0   | 23.0   |  |
| RATIOS        | 0.09  | 0.11  | 0.06     | 0.10   | 0.04   |  | 1.2   | 0.7              | 1.2    | 0.5    |  |

### MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 3.64  | 0.42                          |
| MGC/M-3/EM-2 | 0.76  | 0.09                          |



SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.0

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

SUMMARY TABLE - MEAN VALUES

SUMMARY TABLE - SIZE FRACTIONS

### MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 0.93  | 0.03                          |
| MGC/M-3/EM-2 | 0.20  | 0.01                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 7 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 5.0

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 2.36  | 2.10    | 1.87  | 89.2   | 79.2  |
| 2         | 4.52  | 4.04    | 2.80  | 89.4   | 62.0  |
| 3         | 1.82  | 1.75    | 1.49  | 96.3   | 82.2  |
| 4         | 2.87  | 2.53    | 2.01  | 88.1   | 70.0  |
| 5         | 2.67  | 2.56    | 2.51  | 95.9   | 94.0  |
| MEAN      | 2.85  | 2.60    | 2.14  | 91.8   | 77.5  |
| SD        | 0.91  | 0.78    | 0.47  | 3.5    | 10.9  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      | MEAN   | % LIGHT |
|------|--------|---------|
| DARK | 136.47 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 2.85  | 2.60         | 2.14  | 91.8               | 77.5  |
| CHLOROPHYLL a | 5.0   | 5.2          | 4.5   | 104.0              | 90.0  |
| C-14 DARK     | 0.14  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | < 5 u | FRACTION |        |        | < 5 u | PERCENT OF TOTAL |        |        |
|---------------|-------|-------|----------|--------|--------|-------|------------------|--------|--------|
|               |       |       | 5-20 u   | < 20 u | > 20 u |       | 5-20 u           | < 20 u | > 20 u |
| C-14 UPTAKE   | 2.85  | 2.14  | 0.46     | 2.60   | 0.25   | 75.0  | 16.2             | 91.2   | 8.8    |
| CHLOROPHYLL a | 5.00  | 4.50  | 0.70     | 5.20   | -0.20  | 90.0  | 14.0             | 104.0  | -4.0   |
| RATIOS        | 0.57  | 0.47  | 0.66     | 0.50   | 0.00   | 0.8   | 1.2              | 0.9    | 0.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 13.42 | 2.68                          |
| MGC/M-3/EM-2 | 2.85  | 0.57                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 13.3

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 2.29  | 2.28    | 2.23  | 99.6   | 97.5  |
| 2         | 2.37  | 2.12    | 1.93  | 89.5   | 81.5  |
| 3         | 3.85  | 2.80    | 2.31  | 72.7   | 60.1  |
| 4         | 4.05  | 3.58    | 3.36  | 88.6   | 83.2  |
| 5         | 3.62  | 3.14    | 2.67  | 86.6   | 73.7  |
| MEAN      | 3.24  | 2.78    | 2.50  | 87.4   | 79.2  |
| SD        | 0.75  | 0.54    | 0.49  | 8.6    | 12.3  |

|      |                |                |
|------|----------------|----------------|
| DARK | MEAN<br>238.24 | % LIGHT<br>7.4 |
|------|----------------|----------------|

|               | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------|-------|--------------|-------|--------------------|-------|
|               |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.24  | 2.78   | 2.50  |              |       |                    |       |
| CHLOROPHYLL a | 69.6  | 29.2   | 22.7  | 87.4         | 79.2  | 86.1               | 77.3  |
| C-14 DARK     | 0.24  |        |       |              |       | 42.0               | 32.6  |

|               |       | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               | TOTAL | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.24  | 2.50     | 0.28   | 2.78   | 0.45   | 77.3             | 8.7    | 86.1   | 13.9   |
| CHLOROPHYLL a | 69.60 | 22.70    | 6.50   | 29.20  | 40.40  | 32.6             | 9.3    | 42.0   | 58.0   |
| RATIOS        | 0.05  | 0.11     | 0.04   | 0.10   | 0.01   | 2.4              | 0.9    | 2.1    | 0.2    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 14.39 | 0.21                          |
| MGC/M-3/EM-2 | 3.24  | 0.05                          |

## SUMMARY OF RESULTS FOR STATION 104 COLLECTED ON 7 / 99

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 22.8

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.47  | 0.43    | 0.29  | 91.5   | 61.6  |
| 2         | 0.78  | 0.64    | 0.59  | 81.4   | 76.1  |
| 3         | 0.76  | 0.71    | 0.68  | 93.7   | 89.1  |
| 4         | 0.63  | 0.63    | 0.56  | 100.3  | 89.7  |
| 5         | 0.93  | 0.76    | 0.74  | 81.9   | 79.4  |
| MEAN      | 0.71  | 0.63    | 0.57  | 89.7   | 79.2  |
| SD        | 0.16  | 0.11    | 0.15  | 7.2    | 10.3  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN  | % LIGHT |
|------|-------|---------|
|      | 63.88 | 8.9     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | FRACTION |       | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|----------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u   | < 5 u | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.71  | 0.63     | 0.57  | 89.7         | 79.2  | 88.8               | 80.2  |
| CHLOROPHYLL a | 17.3  | 11.0     | 7.2   |              |       | 63.6               | 41.6  |
| C-14 DARK     | 0.06  |          |       |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.71  | 0.57     | 0.06   | 0.63   | 0.08   | 80.2             | 8.6    | 88.8   | 11.2   |
| CHLOROPHYLL a | 17.30 | 7.20     | 3.80   | 11.00  | 6.30   | 41.6             | 22.0   | 63.6   | 36.4   |
| RATIOS        | 0.04  | 0.08     | 0.02   | 0.06   | 0.01   | 1.9              | 0.4    | 1.4    | 0.3    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS       | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|-------------|-------|-------------------------------|
| MG/M-3/HR   | 3.05  | 0.18                          |
| MG/M-3/EM-2 | 0.71  | 0.04                          |

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.31  | 0.27    | 0.26  | 87.4   | 84.0  |
| 2         | 0.28  | 0.27    | 0.23  | 96.0   | 81.9  |
| 3         | 0.28  | 0.26    | 0.18  | 90.5   | 62.8  |
| 4         | 0.29  | 0.29    | 0.21  | 100.1  | 72.5  |
| 5         | 0.26  | 0.26    | 0.19  | 101.0  | 74.8  |
| MEAN      | 0.28  | 0.27    | 0.21  | 95.0   | 75.2  |
| SD        | 0.02  | 0.01    | 0.03  | 5.3    | 7.5   |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>26.74 | % LIGHT<br>9.4 |
|------|---------------|----------------|

|               | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------|-------|--------------|-------|--------------------|-------|
|               |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.28  | 0.27   | 0.21  | 95.0         | 75.2  | 94.8               | 75.4  |
| CHLOROPHYLL a | 42.9  | 39.0   | 10.7  |              |       | 90.9               | 24.9  |
| C-14 DARK     | 0.03  |        |       |              |       |                    |       |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.28     | 0.21  | 0.06   | 0.27   | 0.01   | 75.4             | 19.4   | 94.8   | 5.2    |  |
| CHLOROPHYLL a | 42.90    | 10.70 | 28.30  | 39.00  | 3.90   | 24.9             | 66.0   | 90.9   | 9.1    |  |
| RATIOS        | 0.01     | 0.02  | 0.00   | 0.01   | 0.00   | 3.0              | 0.3    | 1.0    | 0.6    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 1.31  | 0.03                          |
| MGC/M-3/EM-2 | 0.28  | 0.01                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 8 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 7.9

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.19  | 2.85    | 2.53  | 89.2   | 79.2  |
| 2         | 6.12  | 5.47    | 3.80  | 89.4   | 62.0  |
| 3         | 2.47  | 2.38    | 2.03  | 96.3   | 82.2  |
| 4         | 3.89  | 3.43    | 2.73  | 88.1   | 70.0  |
| 5         | 3.62  | 3.47    | 3.41  | 95.9   | 94.0  |
| MEAN      | 3.86  | 3.52    | 2.90  | 91.8   | 77.5  |
| SD        | 1.23  | 1.06    | 0.63  | 3.5    | 10.9  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      | MEAN   | % LIGHT |
|------|--------|---------|
| DARK | 185.05 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED |       |
|---------------|-------|--------|-------|------------|-------|
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u |
| C-14 LIGHT    | 3.86  | 3.52   | 2.90  | 91.8       | 77.5  |
| CHLOROPHYLL a | 7.6   | 9.6    | 6.2   | 126.3      | 81.6  |
| C-14 DARK     | 0.19  |        |       |            |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.86  | 2.90     | 0.62   | 3.52   | 0.34   | 75.0             | 16.2   | 91.2   | 8.8    |
| CHLOROPHYLL a | 7.60  | 6.20     | 3.40   | 9.60   | -2.00  | 81.6             | 44.7   | 126.3  | -26.3  |
| RATIOS        | 0.51  | 0.47     | 0.18   | 0.37   | 0.00   | 0.9              | 0.4    | 0.7    | 0.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 17.77 | 2.34                          |
| MGC/M-3/EM-2 | 3.86  | 0.51                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 8 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 14.6

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 2.87  | 2.85    | 2.79  |
| 2         | 2.97  | 2.42    | 2.66  |
| 3         | 4.83  | 3.51    | 2.90  |
| 4         | 5.07  | 4.49    | 4.22  |
| 5         | 4.54  | 3.94    | 3.35  |
| MEAN      | 4.05  | 3.44    | 3.18  |
| SD        | 0.94  | 0.74    | 0.57  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN   | % LIGHT |
|------|--------|---------|
|      | 298.54 | 7.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED |       |
|---------------|-------|--------|-------|------------|-------|
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u |
| C-14 LIGHT    | 4.05  | 3.44   | 3.18  | 85.8       | 80.8  |
| CHLOROPHYLL a | 4.3   | 3.8    | 3.4   | 88.4       | 79.1  |
| C-14 DARK     | 0.30  |        |       |            |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 4.05  | 3.18     | 0.26   | 3.44   | 0.61             | 78.5   | 6.4    | 84.9   |
| CHLOROPHYLL a | 4.30  | 3.40     | 0.40   | 3.80   | 0.50             | 79.1   | 9.3    | 88.4   |
| RATIOS        | 0.94  | 0.94     | 0.65   | 0.91   | 1.22             | 1.0    | 0.7    | 1.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 17.54 | 4.08                          |
| MGC/M-3/EM-2 | 4.05  | 0.94                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 22.2

| REPLICATE | TOTAL | < 20 u | < 5 u | PERCENT |       |
|-----------|-------|--------|-------|---------|-------|
|           |       |        |       | < 20 u  | < 5 u |
| 1         | 0.54  | 0.50   | 0.33  | 91.5    | 61.6  |
| 2         | 0.90  | 0.74   | 0.69  | 81.4    | 76.1  |
| 3         | 0.88  | 0.82   | 0.78  | 93.7    | 89.1  |
| 4         | 0.73  | 0.73   | 0.65  | 100.3   | 89.7  |
| 5         | 1.08  | 0.88   | 0.86  | 81.9    | 79.4  |
| MEAN      | 0.83  | 0.73   | 0.66  | 89.7    | 79.2  |
| SD        | 0.18  | 0.13   | 0.18  | 7.2     | 10.3  |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>73.91 | % LIGHT<br>8.9 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.83  | 0.73         | 0.66  | 89.7               | 79.2  |
| CHLOROPHYLL a | 9.2   | 4.4          | 3.6   |                    |       |
| C-14 DARK     | 0.07  |              |       |                    |       |

|               | TOTAL | < 5 u | FRACTION |        |        |  |       | PERCENT OF TOTAL |        |        |  |
|---------------|-------|-------|----------|--------|--------|--|-------|------------------|--------|--------|--|
|               |       |       | 5-20 u   | < 20 u | > 20 u |  | < 5 u | 5-20 u           | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.83  | 0.66  | 0.07     | 0.73   | 0.09   |  | 80.2  | 8.6              | 88.8   | 11.2   |  |
| CHLOROPHYLL a | 9.20  | 3.60  | 0.80     | 4.40   | 4.80   |  | 39.1  | 8.7              | 47.8   | 52.2   |  |
| RATIOS        | 0.09  | 0.18  | 0.09     | 0.17   | 0.02   |  | 2.1   | 1.0              | 1.9    | 0.2    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 3.64  | 0.40                          |
| MGC/M-3/EM-2 | 0.83  | 0.09                          |



## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 9 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.2

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 0.23  | 0.20    | 0.19  |
| 2         | 0.21  | 0.20    | 0.17  |
| 3         | 0.21  | 0.19    | 0.13  |
| 4         | 0.21  | 0.21    | 0.15  |
| 5         | 0.19  | 0.19    | 0.14  |
| MEAN      | 0.21  | 0.20    | 0.16  |
| SD        | 0.01  | 0.01    | 0.02  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN  | % LIGHT |
|------|-------|---------|
|      | 19.78 | 9.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED |       |
|---------------|-------|--------|-------|------------|-------|
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u |
| C-14 LIGHT    | 0.21  | 0.20   | 0.16  | 95.0       | 75.2  |
| CHLOROPHYLL a | 15.6  | 16.6   | 7.3   | 106.4      | 46.8  |
| C-14 DARK     | 0.02  |        |       |            |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.21  | 0.16     | 0.04   | 0.20   | 0.01   | 75.4             | 19.4   | 94.8   | 5.2    |
| CHLOROPHYLL a | 15.60 | 7.30     | 9.30   | 16.60  | -1.00  | 46.8             | 59.6   | 106.4  | -6.4   |
| RATIOS        | 0.01  | 0.02     | 0.00   | 0.01   | 0.00   | 1.6              | 0.3    | 0.9    | 0.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 0.92  | 0.06                          |
| MGC/M-3/EM-2 | 0.21  | 0.01                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 9 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 8.0

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 2.31  | 2.06    | 1.83  | 89.2   | 79.2  |
| 2         | 4.43  | 3.96    | 2.74  | 89.4   | 62.0  |
| 3         | 1.78  | 1.72    | 1.47  | 96.3   | 82.2  |
| 4         | 2.81  | 2.48    | 1.97  | 88.1   | 70.0  |
| 5         | 2.62  | 2.51    | 2.46  | 95.9   | 94.0  |
| MEAN      | 2.79  | 2.55    | 2.09  | 91.8   | 77.5  |
| SD        | 0.89  | 0.76    | 0.46  | 3.5    | 10.9  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      | MEAN   | % LIGHT |
|------|--------|---------|
| DARK | 133.79 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 2.79  | 2.55         | 2.09  | 91.8               | 77.5  |
| CHLOROPHYLL a | 9.1   | 8.3          | 8.1   | 91.2               | 75.0  |
| C-14 DARK     | 0.13  |              |       | 91.2               | 89.0  |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 2.79  | 2.09     | 0.45   | 2.55   | 0.25   | 75.0             | 16.2   | 91.2   | 8.8    |
| CHLOROPHYLL a | 9.10  | 8.10     | 0.20   | 8.30   | 0.80   | 89.0             | 2.2    | 91.2   | 8.8    |
| RATIOS        | 0.31  | 0.26     | 2.25   | 0.31   | 0.31   | 0.8              | 7.4    | 1.0    | 1.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 12.36 | 1.36                          |
| MGC/M-3/EM-2 | 2.79  | 0.31                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 12.9

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 2.02  | 2.01    | 1.97  | 99.6   | 97.5  |
| 2         | 2.09  | 1.71    | 1.87  | 81.5   | 89.5  |
| 3         | 3.41  | 2.48    | 2.05  | 72.7   | 60.1  |
| 4         | 3.58  | 3.17    | 2.98  | 88.6   | 83.2  |
| 5         | 3.21  | 2.78    | 2.36  | 86.6   | 73.7  |
| MEAN      | 2.86  | 2.43    | 2.25  | 85.8   | 80.8  |
| SD        | 0.67  | 0.52    | 0.40  | 8.8    | 13.0  |

|      |                |                |
|------|----------------|----------------|
| DARK | MEAN<br>210.68 | % LIGHT<br>7.4 |
|------|----------------|----------------|

|               | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------|-------|--------------|-------|--------------------|-------|
|               |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 2.86  | 2.43   | 2.25  | 85.8         | 80.8  | 84.9               | 78.5  |
| CHLOROPHYLL a | 12.1  | 7.3    | 6.4   |              |       | 60.3               | 52.9  |
| C-14 DARK     | 0.21  |        |       |              |       |                    |       |

|               | TOTAL | < 5 u | FRACTION |        |        |  |       | PERCENT OF TOTAL |        |        |  |
|---------------|-------|-------|----------|--------|--------|--|-------|------------------|--------|--------|--|
|               |       |       | 5-20 u   | < 20 u | > 20 u |  | < 5 u | 5-20 u           | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 2.86  | 2.25  | 0.18     | 2.43   | 0.43   |  | 78.5  | 6.4              | 84.9   | 15.1   |  |
| CHLOROPHYLL a | 12.10 | 6.40  | 0.90     | 7.30   | 4.80   |  | 52.9  | 7.4              | 60.3   | 39.7   |  |
| RATIOS        | 0.24  | 0.35  | 0.20     | 0.33   | 0.09   |  | 1.5   | 0.9              | 1.4    | 0.4    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 12.37 | 1.02                          |
| MGC/M-3/EM-2 | 2.86  | 0.24                          |



## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 10 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.0

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 0.17  | 0.15    | 0.15  |
| 2         | 0.16  | 0.15    | 0.13  |
| 3         | 0.16  | 0.14    | 0.10  |
| 4         | 0.16  | 0.16    | 0.12  |
| 5         | 0.14  | 0.15    | 0.11  |
| MEAN      | 0.16  | 0.15    | 0.12  |
| SD        | 0.01  | 0.01    | 0.02  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN  | % LIGHT |
|------|-------|---------|
|      | 14.92 | 9.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED |       |
|---------------|-------|--------|-------|------------|-------|
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u |
| C-14 LIGHT    | 0.16  | 0.15   | 0.12  | 95.0       | 75.2  |
| CHLOROPHYLL a | 2.0   | 1.8    | 1.8   | 90.0       | 90.0  |
| C-14 DARK     | 0.01  |        |       |            |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.16  | 0.12     | 0.03   | 0.15   | 0.01   | 75.4             | 19.4   | 94.8   | 5.2    |
| CHLOROPHYLL a | 2.00  | 1.80     | 0.00   | 1.80   | 0.20   | 90.0             | 0.0    | 90.0   | 10.0   |
| RATIOS        | 0.08  | 0.07     | 0.00   | 0.08   | 0.04   | 0.8              | 0.0    | 1.1    | 0.5    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 0.62  | 0.31                          |
| MGC/M-3/EM-2 | 0.16  | 0.08                          |

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 10.6

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.87  | 3.45    | 3.06  | 89.2   | 79.2  |
| 2         | 7.41  | 6.63    | 4.60  | 89.4   | 62.0  |
| 3         | 2.99  | 2.88    | 2.45  | 96.3   | 82.2  |
| 4         | 4.71  | 4.15    | 3.30  | 88.1   | 70.0  |
| 5         | 4.39  | 4.12    | 4.21  | 94.0   | 95.9  |
| MEAN      | 4.67  | 4.25    | 3.52  | 91.4   | 77.8  |
| SD        | 1.49  | 1.28    | 0.78  | 3.2    | 11.5  |

|      |                |                |
|------|----------------|----------------|
| DARK | MEAN<br>223.99 | % LIGHT<br>4.8 |
|------|----------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 4.67  | 4.25         | 3.52  | 91.4               | 77.8  |
| CHLOROPHYLL a | 5.2   | 4.5          | 3.9   | 90.9               | 75.4  |
| C-14 DARK     | 0.22  |              |       | 86.5               | 75.0  |

|               |       | FRACTION |        |        |        |  | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|--|------------------|--------|--------|--------|
|               | TOTAL | < 5 u    | 5-20 u | < 20 u | > 20 u |  | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 4.67  | 3.52     | 0.72   | 4.25   | 0.43   |  | 75.4             | 15.5   | 90.9   | 9.1    |
| CHLOROPHYLL a | 5.20  | 3.90     | 0.60   | 4.50   | 0.70   |  | 75.0             | 11.5   | 86.5   | 13.5   |
| RATIOS        | 0.90  | 0.90     | 1.20   | 0.94   | 0.61   |  | 1.0              | 1.3    | 1.0    | 0.7    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 18.53 | 3.56                          |
| MGC/M-3/EM-2 | 4.67  | 0.90                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 10 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 14.1

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       |        |       |
|                                                    |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1                                                  | 2.67  | 2.60    | 2.66  | 97.5   | 99.6  |
| 2                                                  | 2.77  | 2.48    | 2.25  | 89.5   | 81.5  |
| 3                                                  | 4.50  | 3.27    | 2.70  | 72.7   | 60.1  |
| 4                                                  | 4.73  | 4.19    | 3.93  | 88.6   | 83.2  |
| 5                                                  | 4.23  | 3.67    | 3.12  | 86.6   | 73.7  |
| MEAN                                               | 3.78  | 3.24    | 2.93  | 87.0   | 79.6  |
| SD                                                 | 0.88  | 0.64    | 0.57  | 8.0    | 12.9  |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |        |         |
|---------------------------------------------------|--------|---------|
|                                                   | MEAN   | % LIGHT |
| DARK                                              | 278.29 | 7.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN   |       | CALCULATED | PERCENT |
|---------------|-------|--------|-------|------------|---------|
|               |       | < 20 u | < 5 u |            |         |
|               |       | < 20 u | < 5 u | < 20 u     | < 5 u   |
| C-14 LIGHT    | 3.78  | 3.24   | 2.93  | 87.0       | 79.6    |
| CHLOROPHYLL a | 26.2  | 11.9   | 6.3   | 45.4       | 24.0    |
| C-14 DARK     | 0.28  |        |       |            |         |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.78  | 2.93     | 0.31   | 3.24   | 0.54   | 77.6             | 8.1    | 85.8   | 14.2   |
| CHLOROPHYLL a | 26.20 | 6.30     | 5.60   | 11.90  | 14.30  | 24.0             | 21.4   | 45.4   | 54.6   |
| RATIOS        | 0.14  | 0.47     | 0.05   | 0.27   | 0.04   | 3.2              | 0.4    | 1.9    | 0.3    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 14.73 | 0.56                          |
| MGC/M-3/EM-2 | 3.78  | 0.14                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 22.8

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 0.77  | 0.71    | 0.48  |
| 2         | 1.29  | 1.05    | 0.98  |
| 3         | 1.25  | 1.17    | 1.05  |
| 4         | 1.12  | 1.03    | 1.04  |
| 5         | 1.54  | 1.26    | 1.22  |
| MEAN      | 1.19  | 1.04    | 0.95  |
| SD        | 0.25  | 0.19    | 0.25  |

|      |        |         |
|------|--------|---------|
|      | MEAN   | % LIGHT |
| DARK | 105.25 | 8.8     |

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |      |      |
|---------------|-------|--------------|-------|--------------------|-------|------|------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |      |      |
| C-14 LIGHT    | 1.19  | 1.04         | 0.95  | 88.2               | 78.7  | 87.5 | 79.8 |
| CHLOROPHYLL a | 15.3  | 10.7         | 7.8   |                    |       | 69.9 | 51.0 |
| C-14 DARK     | 0.11  |              |       |                    |       |      |      |

|               |       | FRACTION |        |        |        |  | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|--|------------------|--------|--------|--------|
|               | TOTAL | < 5 u    | 5-20 u | < 20 u | > 20 u |  | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 1.19  | 0.95     | 0.09   | 1.04   | 0.15   |  | 79.8             | 7.7    | 87.5   | 12.5   |
| CHLOROPHYLL a | 15.30 | 7.80     | 2.90   | 10.70  | 4.60   |  | 51.0             | 19.0   | 69.9   | 30.1   |
| RATIOS        | 0.08  | 0.12     | 0.03   | 0.10   | 0.03   |  | 1.6              | 0.4    | 1.3    | 0.4    |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 4.62  | 0.30                          |
| MGC/M-3/EM-2 | 1.19  | 0.08                          |



SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.34  | 0.29    | 0.28  | 87.4   | 84.0  |
| 2         | 0.31  | 0.29    | 0.25  | 96.0   | 81.9  |
| 3         | 0.31  | 0.28    | 0.19  | 90.5   | 62.8  |
| 4         | 0.31  | 0.31    | 0.23  | 100.1  | 72.5  |
| 5         | 0.28  | 0.28    | 0.21  | 101.0  | 74.8  |
| MEAN      | 0.31  | 0.29    | 0.23  | 95.0   | 75.2  |
| SD        | 0.02  | 0.01    | 0.03  | 5.3    | 7.5   |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>29.05 | % LIGHT<br>9.4 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.31  | 0.29         | 0.23  | 95.0               | 75.2  |
| CHLOROPHYLL a | 8.4   | 6.2          | 4.1   |                    |       |
| C-14 DARK     | 0.03  |              |       | 94.8               | 75.4  |
|               |       |              |       | 73.8               | 48.8  |

|               | TOTAL | FRACTION |        |        |        |      | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u |      | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.31  | 0.23     | 0.06   | 0.29   | 0.02   | 75.4 | 19.4             | 94.8   | 5.2    |        |
| CHLOROPHYLL a | 8.40  | 4.10     | 2.10   | 6.20   | 2.20   | 48.8 | 25.0             | 73.8   | 26.2   |        |
| RATIOS        | 0.04  | 0.06     | 0.03   | 0.05   | 0.01   | 1.5  | 0.8              | 1.3    | 0.2    |        |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| -----        | ----- | -----                         |
| MGC/M-3/HR   | 1.09  | 0.13                          |
| MGC/M-3/EM-2 | 0.31  | 0.04                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 11 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 6.5

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 3.20  | 2.85    | 2.53  | 89.2   | 79.2  |
| 2         | 6.13  | 5.48    | 3.80  | 89.4   | 62.0  |
| 3         | 2.38  | 2.47    | 2.03  | 103.9  | 85.3  |
| 4         | 3.90  | 3.43    | 2.73  | 88.1   | 70.0  |
| 5         | 3.63  | 3.48    | 3.41  | 95.9   | 94.0  |
| MEAN      | 3.85  | 3.54    | 2.90  | 93.3   | 78.1  |
| SD        | 1.25  | 1.04    | 0.63  | 6.0    | 11.2  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

|      | MEAN   | % LIGHT |
|------|--------|---------|
| DARK | 185.23 | 4.8     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | FRACTION |       | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|----------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u   | < 5 u | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.85  | 3.54     | 2.90  | 93.3         | 78.1  | 92.1               | 75.4  |
| CHLOROPHYLL a | 50.1  | 38.6     | 14.2  |              |       | 77.0               | 28.3  |
| C-14 DARK     | 0.19  |          |       |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 3.85  | 2.90     | 0.64   | 3.54   | 0.30   | 75.4             | 16.7   | 92.1   | 7.9    |
| CHLOROPHYLL a | 50.10 | 14.20    | 24.40  | 38.60  | 11.50  | 28.3             | 48.7   | 77.0   | 23.0   |
| RATIOS        | 0.08  | 0.20     | 0.03   | 0.09   | 0.03   | 2.7              | 0.3    | 1.2    | 0.3    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 13.61 | 0.27                          |
| MGC/M-3/EM-2 | 3.85  | 0.08                          |

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 12.9

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 2.82  | 2.81    | 2.75  |
| 2         | 2.92  | 2.61    | 2.38  |
| 3         | 4.75  | 3.45    | 2.85  |
| 4         | 4.99  | 4.42    | 4.15  |
| 5         | 4.47  | 3.87    | 3.29  |
| MEAN      | 3.99  | 3.43    | 3.08  |
| SD        | 0.93  | 0.67    | 0.61  |

|      |                |                |
|------|----------------|----------------|
| DARK | MEAN<br>293.76 | % LIGHT<br>7.4 |
|------|----------------|----------------|

|               | TOTAL | < 20 u | < 5 u | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------|-------|--------------|-------|--------------------|-------|
|               |       |        |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 3.99  | 3.43   | 3.08  | 87.4         | 79.2  | 86.1               | 77.3  |
| CHLOROPHYLL a | 56.4  | 40.4   | 11.9  |              |       | 71.6               | 21.1  |
| C-14 DARK     | 0.29  |        |       |              |       |                    |       |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 3.99     | 3.08  | 0.35   | 3.43   | 0.56   | 77.3             | 8.7    | 86.1   | 13.9   |  |
| CHLOROPHYLL a | 56.40    | 11.90 | 28.50  | 40.40  | 16.00  | 21.1             | 50.5   | 71.6   | 28.4   |  |
| RATIOS        | 0.07     | 0.26  | 0.01   | 0.08   | 0.03   | 3.7              | 0.2    | 1.2    | 0.5    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 14.28 | 0.25                          |
| MGC/M-3/EM-2 | 3.99  | 0.07                          |

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 21.7

| REPLICATE | TOTAL | PERCENT |       |        |       |
|-----------|-------|---------|-------|--------|-------|
|           |       | < 20 u  | < 5 u | < 20 u | < 5 u |
| 1         | 0.58  | 0.53    | 0.36  | 91.5   | 61.6  |
| 2         | 0.96  | 0.78    | 0.73  | 81.4   | 76.1  |
| 3         | 0.93  | 0.87    | 0.83  | 93.7   | 89.1  |
| 4         | 0.77  | 0.77    | 0.69  | 100.3  | 89.7  |
| 5         | 1.14  | 0.94    | 0.91  | 81.9   | 79.4  |
| MEAN      | 0.88  | 0.78    | 0.70  | 89.7   | 79.2  |
| SD        | 0.19  | 0.14    | 0.19  | 7.2    | 10.3  |

|      |               |                |
|------|---------------|----------------|
| DARK | MEAN<br>78.41 | % LIGHT<br>8.9 |
|------|---------------|----------------|

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.88  | 0.78         | 0.70  | 89.7               | 79.2  |
| CHLOROPHYLL a | 14.9  | 13.9         | 11.6  | 93.3               | 80.2  |
| C-14 DARK     | 0.08  |              |       |                    | 77.9  |

|               | FRACTION |       |        |        |        | PERCENT OF TOTAL |        |        |        |  |
|---------------|----------|-------|--------|--------|--------|------------------|--------|--------|--------|--|
|               | TOTAL    | < 5 u | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |  |
| C-14 UPTAKE   | 0.88     | 0.70  | 0.08   | 0.78   | 0.10   | 80.2             | 8.6    | 88.8   | 11.2   |  |
| CHLOROPHYLL a | 14.90    | 11.60 | 2.30   | 13.90  | 1.00   | 77.9             | 15.4   | 93.3   | 6.7    |  |
| RATIOS        | 0.06     | 0.06  | 0.03   | 0.06   | 0.10   | 1.0              | 0.6    | 1.0    | 1.7    |  |

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 2.99  | 0.20                          |
| MGC/M-3/EM-2 | 0.88  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 101 COLLECTED ON 12 / 99

SALINITY BASED ON: REFRACTOMETER READING = 0.0 CHLORIDE LEVELS = 0.1

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 0.44  | 0.43    | 0.24  | 97.5   | 54.9  |
| 2                                                  | 0.38  | 0.36    | 0.37  | 95.7   | 97.7  |
| 3                                                  | 0.37  | 0.35    | 0.30  | 95.4   | 80.9  |
| 4                                                  | 0.29  | 0.29    | 0.29  | 98.7   | 99.0  |
| 5                                                  | 0.27  | 0.24    | 0.23  | 86.5   | 84.5  |
| MEAN                                               | 0.35  | 0.33    | 0.29  | 94.8   | 83.4  |
| SD                                                 | 0.06  | 0.07    | 0.05  | 4.3    | 15.9  |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |       |         |
|---------------------------------------------------|-------|---------|
| MEAN                                              | 39.93 | % LIGHT |
| DARK                                              |       | 11.4    |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       |      | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|------|--------------------|-------|
|               |       | < 20 u       | < 5 u |      | < 20 u             | < 5 u |
| C-14 LIGHT    | 0.35  | 0.33         | 0.29  | 94.8 | 83.4               | 95.2  |
| CHLOROPHYLL a | 6.3   | 5.1          | 7.9   |      |                    | 81.6  |
| C-14 DARK     | 0.04  |              |       |      |                    | 81.0  |
|               |       |              |       |      |                    | 125.4 |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |      | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | > 20 u |      | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 0.35  | 0.29     | 0.05   | 0.33   | 0.02 | 81.6             | 13.6   | 95.2   | 4.8    |
| CHLOROPHYLL a | 6.30  | 7.90     | -2.80  | 5.10   | 1.20 | 125.4            | -44.4  | 81.0   | 19.0   |
| RATIOS        | 0.06  | 0.04     | 0.00   | 0.07   | 0.01 | 0.7              | 0.0    | 1.2    | 0.3    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 1.18  | 0.19                          |
| MGC/M-3/EM-2 | 0.35  | 0.06                          |

## SUMMARY OF RESULTS FOR STATION 102 COLLECTED ON 12 / 99

SALINITY BASED ON: REFRACTOMETER READING = 6.0 CHLORIDE LEVELS = 4.3

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 1.56  | 1.22    | 0.99  |
| 2         | 1.80  | 1.41    | 1.30  |
| 3         | 1.78  | 1.61    | 1.32  |
| 4         | 1.82  | 1.53    | 1.11  |
| 5         | 1.60  | 1.57    | 1.22  |
| MEAN      | 1.71  | 1.47    | 1.19  |
| SD        | 0.11  | 0.14    | 0.12  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| MEAN        | % LIGHT |
|-------------|---------|
| DARK 130.52 | 7.6     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 1.71  | 1.47         | 1.19  | 85.8               | 69.6  |
| CHLOROPHYLL a | 13.6  | 11.7         | 8.5   | 85.7               | 69.6  |
| C-14 DARK     | 0.13  |              |       | 86.0               | 62.5  |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 1.71  | 1.19     | 0.28   | 1.47   | 0.24   | 69.6             | 16.2   | 85.7   | 14.3   |
| CHLOROPHYLL a | 13.60 | 8.50     | 3.20   | 11.70  | 1.90   | 62.5             | 23.5   | 86.0   | 14.0   |
| RATIOS        | 0.13  | 0.14     | 0.09   | 0.13   | 0.13   | 1.1              | 0.7    | 1.0    | 1.0    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS        | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|--------------|-------|-------------------------------|
| MGC/M-3/HR   | 5.73  | 0.42                          |
| MGC/M-3/EM-2 | 1.71  | 0.13                          |

## SUMMARY OF RESULTS FOR STATION 103 COLLECTED ON 12 / 99

SALINITY BASED ON: REFRACTOMETER READING = 12.0 CHLORIDE LEVELS = 12.4

PRIMARY PRODUCTIVITY LIGHT BOTTLES  
MGC/M-3/EM-2

| REPLICATE | TOTAL | PERCENT |       |
|-----------|-------|---------|-------|
|           |       | < 20 u  | < 5 u |
| 1         | 4.09  | 3.56    | 2.14  |
| 2         | 5.66  | 4.45    | 3.42  |
| 3         | 3.94  | 3.47    | 3.01  |
| 4         | 6.23  | 5.34    | 3.58  |
| 5         | 6.65  | 6.01    | 3.44  |
| MEAN      | 5.31  | 4.56    | 3.12  |
| SD        | 1.11  | 0.99    | 0.53  |

PRIMARY PRODUCTIVITY DARK BOTTLES  
UGC/M-3/EM-2

| DARK | MEAN   | % LIGHT |
|------|--------|---------|
|      | 181.16 | 3.4     |

## SUMMARY TABLE - MEAN VALUES

|               | TOTAL | MEAN PERCENT |       | CALCULATED PERCENT |       |
|---------------|-------|--------------|-------|--------------------|-------|
|               |       | < 20 u       | < 5 u | < 20 u             | < 5 u |
| C-14 LIGHT    | 5.31  | 4.56         | 3.12  | 85.9               | 59.6  |
| CHLOROPHYLL a | 10.5  | 8.5          | 6.2   | 81.0               | 59.0  |
| C-14 DARK     | 0.18  |              |       |                    |       |

## SUMMARY TABLE - SIZE FRACTIONS

|               | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|---------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|               |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE   | 5.31  | 3.12     | 1.45   | 4.56   | 0.75   | 58.7             | 27.2   | 85.9   | 14.1   |
| CHLOROPHYLL a | 10.50 | 6.20     | 2.30   | 8.50   | 2.00   | 59.0             | 21.9   | 81.0   | 19.0   |
| RATIOS        | 0.51  | 0.50     | 0.63   | 0.54   | 0.38   | 1.0              | 1.2    | 1.1    | 0.7    |

## MEAN CARBON FIXATION IN VARIOUS UNITS

| UNITS       | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
|-------------|-------|-------------------------------|
| MG/M-3/HR   | 17.88 | 1.70                          |
| MG/M-3/EM-2 | 5.31  | 0.51                          |

## SUMMARY OF RESULTS FOR STATION 104 COLLECTED ON 12 / 99

SALINITY BASED ON: REFRACTOMETER READING = 20.0 CHLORIDE LEVELS = 18.8

| PRIMARY PRODUCTIVITY LIGHT BOTTLES<br>MGC/M-3/EM-2 |       |         |       |        |       |
|----------------------------------------------------|-------|---------|-------|--------|-------|
| REPLICATE                                          | TOTAL | PERCENT |       | < 20 u | < 5 u |
|                                                    |       | < 20 u  | < 5 u |        |       |
| 1                                                  | 6.26  | 2.75    | 2.13  | 43.9   | 34.0  |
| 2                                                  | 6.53  | 2.60    | 1.91  | 39.9   | 29.2  |
| 3                                                  | 6.17  | 2.91    | 2.04  | 47.2   | 33.1  |
| 4                                                  | 5.25  | 2.94    | 2.10  | 55.9   | 40.0  |
| 5                                                  | 6.45  | 3.02    | 2.21  | 46.9   | 34.3  |
| MEAN                                               | 6.13  | 2.84    | 2.08  | 46.8   | 34.1  |
| SD                                                 | 0.46  | 0.15    | 0.10  | 5.3    | 3.5   |

| PRIMARY PRODUCTIVITY DARK BOTTLES<br>UGC/M-3/EM-2 |        |         |
|---------------------------------------------------|--------|---------|
| DARK                                              | MEAN   | % LIGHT |
|                                                   | 272.81 | 4.4     |

| SUMMARY TABLE - MEAN VALUES |       |              |       |        |       |                    |       |  |
|-----------------------------|-------|--------------|-------|--------|-------|--------------------|-------|--|
|                             | TOTAL | MEAN PERCENT |       | < 20 u | < 5 u | CALCULATED PERCENT |       |  |
|                             |       | < 20 u       | < 5 u |        |       | < 20 u             | < 5 u |  |
| C-14 LIGHT                  | 6.13  | 2.84         | 2.08  | 46.8   | 34.1  | 46.4               | 33.9  |  |
| CHLOROPHYLL a               | 17.1  | 7.0          | 5.0   |        |       | 40.9               | 29.2  |  |
| C-14 DARK                   | 0.27  |              |       |        |       |                    |       |  |

| SUMMARY TABLE - SIZE FRACTIONS |       |          |        |        |        |                  |        |        |        |
|--------------------------------|-------|----------|--------|--------|--------|------------------|--------|--------|--------|
|                                | TOTAL | FRACTION |        |        |        | PERCENT OF TOTAL |        |        |        |
|                                |       | < 5 u    | 5-20 u | < 20 u | > 20 u | < 5 u            | 5-20 u | < 20 u | > 20 u |
| C-14 UPTAKE                    | 6.13  | 2.08     | 0.77   | 2.84   | 3.29   | 33.9             | 12.5   | 46.4   | 53.6   |
| CHLOROPHYLL a                  | 17.10 | 5.00     | 2.00   | 7.00   | 10.10  | 29.2             | 11.7   | 40.9   | 59.1   |
| RATIOS                         | 0.36  | 0.42     | 0.38   | 0.41   | 0.33   | 1.2              | 1.1    | 1.1    | 0.9    |

| MEAN CARBON FIXATION IN VARIOUS UNITS |       |                               |
|---------------------------------------|-------|-------------------------------|
| UNITS                                 | VALUE | STANDARDIZED TO<br>MGCHLA/M-3 |
| MGC/M-3/HR                            | 19.38 | 1.13                          |
| MGC/M-3/EM-2                          | 6.13  | 0.36                          |





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# **APPENDIX B**

## **Complete Analysis of Carbon Uptake and Chlorophyll *a***



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# **APPENDIX C**

## **Phytoplankton Taxonomy Summary Results of Monthly Sampling**

| MONTH             | 2 | YEAR | 99 | STATION | 101 |
|-------------------|---|------|----|---------|-----|
| -----             |   |      |    |         |     |
| CHLOROPHYTA       |   |      |    |         |     |
|                   |   |      |    |         | 6   |
|                   |   |      |    |         | 16  |
|                   |   |      |    |         | 21  |
| EUGLENOPHYTA      |   |      |    |         |     |
|                   |   |      |    |         | 26  |
| PYROPHYTA         |   |      |    |         |     |
|                   |   |      |    |         | 1   |
|                   |   |      |    |         | 36  |
|                   |   |      |    |         | 262 |
| PYROPHYTA         |   |      |    |         |     |
| DINOPHYCEAE       |   |      |    |         |     |
|                   |   |      |    |         | 5   |
| CHRYSTOPHYTA      |   |      |    |         |     |
| BACILLARIOPHYCEAE |   |      |    |         |     |
|                   |   |      |    |         | 4   |
|                   |   |      |    |         | 2   |
|                   |   |      |    |         | 1   |
|                   |   |      |    |         | 1   |
|                   |   |      |    |         | 1   |
|                   |   |      |    |         | 42  |
|                   |   |      |    |         | 3   |
| CYANOPHYTA        |   |      |    |         |     |
|                   |   |      |    |         | 73  |

NUMBER OF TAXA 16 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 5.4  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 40.7 |
| DINOFLAGELLATES                 | 0.6  |
| BACILLARIOPHYCEAE (DIATOMS)     | 6.8  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 9.1  |

| DIVERSITY AND EVENNESS INDICES |           |          |          |           |          |
|--------------------------------|-----------|----------|----------|-----------|----------|
|                                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
| PIELOU BASE E                  | 1.65      | 0.597    | MARGALEV | 2.41      |          |
| PIELOU BASE 10                 | 0.72      | 0.597    | SIMPSON  | 3.18      | 0.732    |
| MACINTOSH                      | 0.460     | 0.586    | SHELDON  |           | 0.327    |
| EXP. PIELOU                    | 5.23      |          | HEIP     |           | 0.282    |

| MONTH        | 2                                 | YEAR | 99 | STATION | 102 |
|--------------|-----------------------------------|------|----|---------|-----|
| -----        |                                   |      |    |         |     |
| PYROPHYTA    |                                   |      |    |         |     |
|              | Cryptomonas sp.1                  |      |    |         | 50  |
| PYROPHYTA    |                                   |      |    |         |     |
|              | DINOPHYCEAE                       |      |    |         |     |
|              | Gymnodinium splendens             |      |    |         | 67  |
| CHRYSTOPHYTA |                                   |      |    |         |     |
|              | BACILLARIOPHYCEAE                 |      |    |         |     |
|              | Rhizosolenia calcar-avis          |      |    |         | 1   |
|              | Skeletonema costatum              |      |    |         | 331 |
| CYANOPHYTA   |                                   |      |    |         |     |
|              | Synechocystis aquaticus Sauvageau |      |    |         | 51  |

NUMBER OF TAXA      5      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 9.1  |
| DINOFLAGELLATES                 | 12.2 |
| BACILLARIOPHYCEAE (DIATOMS)     | 60.4 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 9.3  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.02      | 0.632    | MARGALEV | 0.64      |          |
| PIELOU BASE 10 | 0.44      | 0.632    | SIMPSON  | 2.10      | 0.654    |
| MACINTOSH      | 0.324     | 0.560    | SHELDON  |           | 0.553    |
| EXP. PIELOU    | 2.77      |          | HEIP     |           | 0.442    |

|                   |                                   |      |    |         |     |
|-------------------|-----------------------------------|------|----|---------|-----|
| MONTH             | 2                                 | YEAR | 99 | STATION | 103 |
| -----             |                                   |      |    |         |     |
| CHLOROPHYTA       |                                   |      |    |         |     |
|                   | Chlymentomonas sp.                |      |    |         | 3   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 116 |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Biddulphia sinensis               |      |    |         | 28  |
|                   | Ceratulina pelagica               |      |    |         | 8   |
|                   | Rhizosolenia styliiformis         |      |    |         | 5   |
|                   | Skeletonema costatum              |      |    |         | 307 |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 33  |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.5  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 18.8 |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 56.5 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 5.4  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.12      | 0.577    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.49      | 0.577    | SIMPSON  | 2.28      | 0.655    |
| MACINTOSH      | 0.353     | 0.543    | SHELDON  |           | 0.439    |
| EXP. PIELOU    | 3.07      |          | HEIP     |           | 0.345    |

|                   |                                   |      |    |         |     |
|-------------------|-----------------------------------|------|----|---------|-----|
| MONTH             | 2                                 | YEAR | 99 | STATION | 104 |
| -----             |                                   |      |    |         |     |
| CHLOROPHYTA       |                                   |      |    |         |     |
|                   | Chlymentomonas sp.                |      |    |         | 5   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 172 |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Biddulphia sinensis               |      |    |         | 7   |
|                   | Navicula spp.                     |      |    |         | 1   |
|                   | Rhizosolenia calcar-avis          |      |    |         | 1   |
|                   | Skeletonema costatum              |      |    |         | 253 |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 61  |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.7  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 25.6 |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 39.0 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 9.1  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.10      | 0.565    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.48      | 0.565    | SIMPSON  | 2.57      | 0.712    |
| MACINTOSH      | 0.393     | 0.604    | SHELDON  |           | 0.429    |
| EXP. PIELOU    | 3.00      |          | HEIP     |           | 0.334    |

| MONTH                             | 3 | YEAR | 99 | STATION | 101 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Chlymentomonas sp.                |   |      |    |         | 1   |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Euglena acus                      |   |      |    |         | 7   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas curvata               |   |      |    |         | 4   |
| Cryptomonas ovata                 |   |      |    |         | 16  |
| Cryptomonas sp.1                  |   |      |    |         | 296 |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Amphidinium crassum               |   |      |    |         | 1   |
| Gonyalux palustre                 |   |      |    |         | 11  |
| Gonyalux scrippsae                |   |      |    |         | 8   |
| Gymnodinium simplex               |   |      |    |         | 18  |
| CHRYSTOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Biddulphia sinensis               |   |      |    |         | 1   |
| Skeletonema costatum              |   |      |    |         | 52  |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 85  |

NUMBER OF TAXA 12 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.1  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 39.6 |
| DINOFLAGELLATES                 | 4.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 6.5  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 10.4 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.36      | 0.548    | MARGALEV | 1.77      |          |
| PIELOU BASE 10 | 0.59      | 0.548    | SIMPSON  | 2.54      | 0.662    |
| MACINTOSH      | 0.390     | 0.524    | SHELDON  |           | 0.326    |
| EXP. PIELOU    | 3.91      |          | HEIP     |           | 0.264    |

|                                   |   |      |    |         |     |
|-----------------------------------|---|------|----|---------|-----|
| MONTH                             | 3 | YEAR | 99 | STATION | 102 |
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Scenedesmus quadricauda v. Westii |   |      |    |         | 4   |
| Spermatozoopsis exultans          |   |      |    |         | 168 |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 119 |
| CHRYSOPHYTA                       |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Skeletonema costatum              |   |      |    |         | 128 |
| Diploneis                         |   |      |    |         | 1   |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 64  |
| Merismopedia sp.                  |   |      |    |         | 16  |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 27.8 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 19.2 |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 20.8 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 12.9 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.48      | 0.761    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.64      | 0.761    | SIMPSON  | 3.96      | 0.872    |
| MACINTOSH      | 0.521     | 0.800    | SHELDON  |           | 0.628    |
| EXP. PIELOU    | 4.40      |          | HEIP     |           | 0.566    |



| MONTH             | 3         | YEAR      | 99 | STATION | 103 |
|-------------------|-----------|-----------|----|---------|-----|
| -----             |           |           |    |         |     |
| CHLOROPHYTA       |           |           |    |         |     |
| Spermatozoopsis   | exultans  |           |    |         | 11  |
| EUGLENOPHYTA      |           |           |    |         |     |
| Euglena           | acus      |           |    |         | 5   |
| Eutreptilla       | sp.       |           |    |         | 1   |
| PYROPHYTA         |           |           |    |         |     |
| Cryptomonas       | ovata     |           |    |         | 14  |
| Cryptomonas       | sp.1      |           |    |         | 221 |
| PYROPHYTA         |           |           |    |         |     |
| DINOPHYCEAE       |           |           |    |         |     |
| Gonyalux          | palustre  |           |    |         | 1   |
| Gonyalux          | scrippsae |           |    |         | 5   |
| Gymnodinium       | simplex   |           |    |         | 26  |
| CHRYSTOPHYTA      |           |           |    |         |     |
| BACILLARIOPHYCEAE |           |           |    |         |     |
| Biddulphia        | sinensis  |           |    |         | 79  |
| Skeletonema       | costatum  |           |    |         | 105 |
| CYANOPHYTA        |           |           |    |         |     |
| Synechocystis     | aquaticus | Sauvageau |    |         | 31  |

NUMBER OF TAXA 11 TOTAL NUMBER OF INDIVIDUALS 499.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.5  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 32.8 |
| DINOFLAGELLATES                 | 4.4  |
| BACILLARIOPHYCEAE (DIATOMS)     | 25.1 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 4.2  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.61      | 0.671    | MARGALEV | 1.61      |          |
| PIELOU BASE 10 | 0.70      | 0.671    | SIMPSON  | 3.66      | 0.799    |
| MACINTOSH      | 0.499     | 0.683    | SHELDON  |           | 0.454    |
| EXP. PIELOU    | 5.00      |          | HEIP     |           | 0.400    |

| MONTH                             | 3 | YEAR | 99 | STATION | 104 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Spermatozoopsis exultans          |   |      |    |         | 2   |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 2   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 353 |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Amphidinium crassum               |   |      |    |         | 3   |
| Gymnodinium simplex               |   |      |    |         | 101 |
| CHRYSTOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Navicula spp.                     |   |      |    |         | 2   |
| Nitzschia closterium              |   |      |    |         | 1   |
| Nitzschia palea                   |   |      |    |         | 5   |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 31  |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.2  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 41.6 |
| DINOFLAGELLATES                 | 12.2 |
| BACILLARIOPHYCEAE (DIATOMS)     | 0.9  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 3.6  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.90      | 0.408    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.39      | 0.408    | SIMPSON  | 1.84      | 0.514    |
| MACINTOSH      | 0.275     | 0.394    | SHELDON  |           | 0.272    |
| EXP. PIELOU    | 2.45      |          | HEIP     |           | 0.181    |

| MONTH             | 4                                 | YEAR | 99 | STATION | 101 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| CHLOROPHYTA       |                                   |      |    |         |     |
|                   | Crucigenia fenestrata             |      |    |         | 10  |
|                   | Scenedesmus quadricauda v. Westii |      |    |         | 22  |
|                   | Spermatozoopsis exultans          |      |    |         | 39  |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Eutreptilla sp.                   |      |    |         | 5   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas erosa                 |      |    |         | 6   |
|                   | Cryptomonas ovata                 |      |    |         | 1   |
|                   | Cryptomonas sp.1                  |      |    |         | 93  |
|                   | unidentified flagellate #1        |      |    |         | 2   |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Gonyalux palustre                 |      |    |         | 1   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Skeletonema costatum              |      |    |         | 35  |
|                   | Stephanodiscus                    |      |    |         | 1   |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 285 |

NUMBER OF TAXA 12 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 11.8 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 17.8 |
| DINOFLAGELLATES                 | 0.2  |
| BACILLARIOPHYCEAE (DIATOMS)     | 6.0  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 47.3 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.39      | 0.560    | MARGALEV | 1.77      |          |
| PIELOU BASE 10 | 0.60      | 0.560    | SIMPSON  | 2.68      | 0.684    |
| MACINTOSH      | 0.407     | 0.547    | SHELDON  |           | 0.335    |
| EXP. PIELOU    | 4.03      |          | HEIP     |           | 0.275    |

| MONTH             | 4 | YEAR | 99 | STATION | 102 |
|-------------------|---|------|----|---------|-----|
| -----             |   |      |    |         |     |
| CHLOROPHYTA       |   |      |    |         |     |
|                   |   |      |    |         | 16  |
|                   |   |      |    |         | 11  |
| PYROPHYTA         |   |      |    |         |     |
|                   |   |      |    |         | 17  |
|                   |   |      |    |         | 180 |
|                   |   |      |    |         | 2   |
| PYROPHYTA         |   |      |    |         |     |
| DINOPHYCEAE       |   |      |    |         |     |
|                   |   |      |    |         | 3   |
|                   |   |      |    |         | 5   |
| CHRYSTOPHYTA      |   |      |    |         |     |
|                   |   |      |    |         | 2   |
| CHRYSTOPHYTA      |   |      |    |         |     |
| BACILLARIOPHYCEAE |   |      |    |         |     |
|                   |   |      |    |         | 3   |
|                   |   |      |    |         | 31  |
| CYANOPHYTA        |   |      |    |         |     |
|                   |   |      |    |         | 230 |

NUMBER OF TAXA 11 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 3.9  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 28.5 |
| DINOFLAGELLATES                 | 1.1  |
| BACILLARIOPHYCEAE (DIATOMS)     | 4.9  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 32.9 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.36      | 0.566    | MARGALEV | 1.61      |          |
| PIELOU BASE 10 | 0.59      | 0.566    | SIMPSON  | 2.87      | 0.717    |
| MACINTOSH      | 0.429     | 0.587    | SHELDON  |           | 0.354    |
| EXP. PIELOU    | 3.89      |          | HEIP     |           | 0.289    |

| MONTH                             | 4 | YEAR | 99 | STATION | 103 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Euglena acus                      |   |      |    |         | 13  |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 285 |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Amphidinium crassum               |   |      |    |         | 20  |
| Gonyalux palustre                 |   |      |    |         | 6   |
| Gonyalux scrippsae                |   |      |    |         | 25  |
| Gymnodinium splendens             |   |      |    |         | 15  |
| Peridinium cerasus                |   |      |    |         | 7   |
| CHRY SOPHYTA                      |   |      |    |         |     |
| Calycomonas ovalis                |   |      |    |         | 4   |
| CHRY SOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Biddulphia reticulum              |   |      |    |         | 1   |
| Rhizosolenia fragellissima        |   |      |    |         | 8   |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 116 |

NUMBER OF TAXA 11 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGALLATES) | 38.0 |
| DINOFLAGALLATES                 | 9.3  |
| BACILLARIOPHYCEAE (DIATOMS)     | 1.1  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 14.8 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.37      | 0.571    | MARGALEV | 1.61      |          |
| PIELOU BASE 10 | 0.59      | 0.571    | SIMPSON  | 2.60      | 0.676    |
| MACINTOSH      | 0.397     | 0.543    | SHELDON  |           | 0.357    |
| EXP. PIELOU    | 3.93      |          | HEIP     |           | 0.293    |

| MONTH             | 4                                 | YEAR | 99 | STATION | 104 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Eutreptilla sp.                   |      |    |         | 5   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 333 |
|                   | unidentified flagellate #1        |      |    |         | 2   |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Amphidinium crassum               |      |    |         | 2   |
|                   | Gymnodinium simplex               |      |    |         | 76  |
| CHRYSOPHYTA       |                                   |      |    |         |     |
|                   | Calycomonas ovalis                |      |    |         | 7   |
| CHRYSOPHYTA       |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Chaetocerus compressa             |      |    |         | 3   |
|                   | Nitzschia spp.                    |      |    |         | 3   |
|                   | Rhodosolenia setigera             |      |    |         | 1   |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 68  |

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 40.7 |
| DINOFLAGELLATES                 | 9.3  |
| BACILLARIOPHYCEAE (DIATOMS)     | 0.8  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 8.1  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.05      | 0.457    | MARGALEV | 1.45      |          |
| PIELOU BASE 10 | 0.46      | 0.457    | SIMPSON  | 2.06      | 0.572    |
| MACINTOSH      | 0.317     | 0.443    | SHELDON  |           | 0.286    |
| EXP. PIELOU    | 2.86      |          | HEIP     |           | 0.207    |

| MONTH        | 5                                 | YEAR | 99 | STATION | 101 |
|--------------|-----------------------------------|------|----|---------|-----|
| -----        |                                   |      |    |         |     |
| CHLOROPHYTA  |                                   |      |    |         |     |
|              | Scenedesmus quadricauda v. Westii |      |    |         | 8   |
|              | Spermatozoopsis exultans          |      |    |         | 35  |
| PYROPHYTA    |                                   |      |    |         |     |
|              | Cryptomonas erosa                 |      |    |         | 31  |
|              | Cryptomonas ovata                 |      |    |         | 5   |
|              | Cryptomonas sp.1                  |      |    |         | 211 |
| CHRY SOPHYTA |                                   |      |    |         |     |
|              | BACILLARIOPHYCEAE                 |      |    |         |     |
|              | Nitzschia palea                   |      |    |         | 5   |
| CYANOPHYTA   |                                   |      |    |         |     |
|              | Synechocystis aquaticus Sauvageau |      |    |         | 205 |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 5.8  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 33.1 |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 0.7  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 27.4 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.25      | 0.641    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.54      | 0.641    | SIMPSON  | 2.81      | 0.752    |
| MACINTOSH      | 0.423     | 0.649    | SHELDON  |           | 0.497    |
| EXP. PIELOU    | 3.48      |          | HEIP     |           | 0.413    |

| MONTH             | 5                                 | YEAR | 99 | STATION | 102 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Eutreptilla sp.                   |      |    |         | 3   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas ovata                 |      |    |         | 95  |
|                   | Cryptomonas sp.1                  |      |    |         | 175 |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Amphidinium crassum               |      |    |         | 2   |
|                   | Gonyalux scrippsae                |      |    |         | 5   |
|                   | Gymnodinium simplex               |      |    |         | 20  |
| CHRY SOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Chaetocerus dicipens              |      |    |         | 55  |
|                   | Rhizosolenia fragellissima        |      |    |         | 60  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 85  |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGALLATES) | 35.5 |
| DINOFLAGALLATES                 | 3.5  |
| BACILLARIOPHYCEAE (DIATOMS)     | 14.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 11.0 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.71      | 0.778    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.74      | 0.778    | SIMPSON  | 4.63      | 0.882    |
| MACINTOSH      | 0.561     | 0.803    | SHELDON  |           | 0.614    |
| EXP. PIELOU    | 5.52      |          | HEIP     |           | 0.565    |



| MONTH             | 5                                 | YEAR | 99 | STATION | 103 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| CHLOROPHYTA       |                                   |      |    |         |     |
|                   | Chlymentomonas sp.                |      |    |         | 28  |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Euglena acus                      |      |    |         | 3   |
|                   | Eutreptilla sp.                   |      |    |         | 5   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas ovata                 |      |    |         | 25  |
|                   | Cryptomonas sp.1                  |      |    |         | 100 |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Gonyalux scrippsae                |      |    |         | 5   |
|                   | Gymnodinium splendens             |      |    |         | 2   |
|                   | Peridinium cerasus                |      |    |         | 8   |
| CHRYSOPHYTA       |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Chaetocerus dicipens              |      |    |         | 17  |
|                   | Gyrosigma/Pleurosigma sp.1        |      |    |         | 2   |
|                   | Nitzschia palea                   |      |    |         | 5   |
|                   | Rhizosolenia fragellissima        |      |    |         | 93  |
|                   | Skeletonema costatum              |      |    |         | 97  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 110 |

NUMBER OF TAXA 14 TOTAL NUMBER OF INDIVIDUALS 500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 4.5  |
| EUGLENO+PYROPHYTA (FLAGALLATES) | 21.3 |
| DINOFLAGALLATES                 | 2.4  |
| BACILLARIOPHYCEAE (DIATOMS)     | 34.2 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 17.6 |

DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.99      | 0.755    | MARGALEV | 2.09      |          |
| PIELOU BASE 10 | 0.86      | 0.755    | SIMPSON  | 5.95      | 0.896    |
| MACINTOSH      | 0.618     | 0.805    | SHELDON  |           | 0.523    |
| EXP. PIELOU    | 7.33      |          | HEIP     |           | 0.487    |

| MONTH             | 5                                 | YEAR | 99 | STATION | 104 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 315 |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Amphidinium crassum               |      |    |         | 3   |
|                   | Gymnodinium simplex               |      |    |         | 6   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Nitzschia spp.                    |      |    |         | 6   |
|                   | Rhizosolenia fragellissima        |      |    |         | 70  |
|                   | Skeletonema costatum              |      |    |         | 21  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 79  |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 38.7 |
| DINOFLAGELLATES                 | 1.1  |
| BACILLARIOPHYCEAE (DIATOMS)     | 11.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 9.7  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.13      | 0.580    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.49      | 0.580    | SIMPSON  | 2.25      | 0.649    |
| MACINTOSH      | 0.350     | 0.537    | SHELDON  |           | 0.441    |
| EXP. PIELOU    | 3.09      |          | HEIP     |           | 0.348    |

| MONTH        | 6 | YEAR | 99 | STATION | 101 |
|--------------|---|------|----|---------|-----|
| -----        |   |      |    |         |     |
| CHLOROPHYTA  |   |      |    |         |     |
|              |   |      |    |         | 4   |
|              |   |      |    |         | 1   |
| EUGLENOPHYTA |   |      |    |         |     |
|              |   |      |    |         | 2   |
| PYROPHYTA    |   |      |    |         |     |
|              |   |      |    |         | 3   |
|              |   |      |    |         | 2   |
|              |   |      |    |         | 2   |
| CHRYSTOPHYTA |   |      |    |         |     |
|              |   |      |    |         | 1   |
| CYANOPHYTA   |   |      |    |         |     |
|              |   |      |    |         | 484 |
|              |   |      |    |         | 1   |

NUMBER OF TAXA      9      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 1.8  |
| DINOFLLAGELLATES                | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 0.0  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 95.7 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.20      | 0.093    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.09      | 0.093    | SIMPSON  | 1.07      | 0.071    |
| MACINTOSH      | 0.033     | 0.048    | SHELDON  |           | 0.136    |
| EXP. PIELOU    | 1.23      |          | HEIP     |           | 0.028    |

|                   |                                   |      |    |         |     |
|-------------------|-----------------------------------|------|----|---------|-----|
| MONTH             | 6                                 | YEAR | 99 | STATION | 102 |
| -----             |                                   |      |    |         |     |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Eutreptilla sp.                   |      |    |         | 62  |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas ovata                 |      |    |         | 2   |
|                   | Cryptomonas sp.1                  |      |    |         | 63  |
| CHRYSOPHYTA       |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Rhizosolenia fragellissima        |      |    |         | 8   |
|                   | Skeletonema costatum              |      |    |         | 85  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 280 |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 22.5 |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 16.5 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 49.6 |

DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.23      | 0.689    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.54      | 0.689    | SIMPSON  | 2.67      | 0.751    |
| MACINTOSH      | 0.407     | 0.656    | SHELDON  |           | 0.573    |
| EXP. PIELOU    | 3.44      |          | HEIP     |           | 0.487    |

| MONTH        | 6 | YEAR | 99 | STATION | 103 |
|--------------|---|------|----|---------|-----|
| -----        |   |      |    |         |     |
| CHLOROPHYTA  |   |      |    |         |     |
|              |   |      |    |         | 2   |
|              |   |      |    |         | 2   |
| EUGLENOPHYTA |   |      |    |         |     |
|              |   |      |    |         | 51  |
| PYROPHYTA    |   |      |    |         |     |
|              |   |      |    |         | 5   |
|              |   |      |    |         | 174 |
| PYROPHYTA    |   |      |    |         |     |
|              |   |      |    |         | 1   |
|              |   |      |    |         | 6   |
| CHRYSOPHYTA  |   |      |    |         |     |
|              |   |      |    |         |     |
|              |   |      |    |         | 78  |
|              |   |      |    |         | 30  |
| CYANOPHYTA   |   |      |    |         |     |
|              |   |      |    |         | 151 |

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.6  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 33.9 |
| DINOFLAGELLATES                 | 1.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 15.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 22.2 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.58      | 0.685    | MARGALEV | 1.45      |          |
| PIELOU BASE 10 | 0.68      | 0.685    | SIMPSON  | 3.99      | 0.832    |
| MACINTOSH      | 0.522     | 0.730    | SHELDON  |           | 0.484    |
| EXP. PIELOU    | 4.84      |          | HEIP     |           | 0.426    |

| MONTH             | 6                                 | YEAR | 99 | STATION | 104 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 98  |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Amphidinium crassum               |      |    |         | 5   |
|                   | Gymnodinium simplex               |      |    |         | 5   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Biddulphia sinensis               |      |    |         | 13  |
|                   | Ceratulina pelagica               |      |    |         | 10  |
|                   | Coscinodiscus eccentricus         |      |    |         | 2   |
|                   | Cyclotella undulata               |      |    |         | 3   |
|                   | Nitzschia spp.                    |      |    |         | 5   |
|                   | Rhizosolenia fragellissima        |      |    |         | 67  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 292 |

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 16.4 |
| DINOFLAGELLATES                 | 1.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 16.7 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 48.8 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.27      | 0.550    | MARGALEV | 1.45      |          |
| PIELOU BASE 10 | 0.55      | 0.550    | SIMPSON  | 2.51      | 0.668    |
| MACINTOSH      | 0.386     | 0.539    | SHELDON  |           | 0.355    |
| EXP. PIELOU    | 3.55      |          | HEIP     |           | 0.283    |

| MONTH                             | 7 | YEAR | 99 | STATION | 101 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Scenedesmus quadricauda v. Westii |   |      |    |         | 179 |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 28  |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas erosa                 |   |      |    |         | 19  |
| Cryptomonas sp.1                  |   |      |    |         | 57  |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Gymnodinium simplex               |   |      |    |         | 4   |
| CHRYSTOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Nitzschia fruticosa               |   |      |    |         | 8   |
| Nitzschia palea                   |   |      |    |         | 6   |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 24  |
| Coelosphaerium sp.                |   |      |    |         | 175 |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 31.1 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 18.1 |
| DINOFLAGELLATES                 | 0.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 2.4  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 34.5 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.57      | 0.715    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.68      | 0.715    | SIMPSON  | 3.69      | 0.820    |
| MACINTOSH      | 0.502     | 0.719    | SHELDON  |           | 0.535    |
| EXP. PIELOU    | 4.82      |          | HEIP     |           | 0.477    |

|                                   |   |      |    |         |     |
|-----------------------------------|---|------|----|---------|-----|
| MONTH                             | 7 | YEAR | 99 | STATION | 102 |
| -----                             |   |      |    |         |     |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 1   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas ovata                 |   |      |    |         | 1   |
| Cryptomonas sp.1                  |   |      |    |         | 1   |
| CHRYSOPHYTA                       |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Biddulphia sinensis               |   |      |    |         | 1   |
| Skeletonema costatum              |   |      |    |         | 483 |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 13  |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 0.6  |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 96.4 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 2.6  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.18      | 0.099    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.08      | 0.099    | SIMPSON  | 1.07      | 0.079    |
| MACINTOSH      | 0.035     | 0.057    | SHELDON  |           | 0.199    |
| EXP. PIELOU    | 1.19      |          | HEIP     |           | 0.039    |



| MONTH                             | 7 | YEAR | 99 | STATION | 103 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Chlymentomonas sp.                |   |      |    |         | 1   |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 1   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 13  |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Gymnodinium simplex               |   |      |    |         | 1   |
| CHRYSOPHYTA                       |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Biddulphia sinensis               |   |      |    |         | 2   |
| Ceratulina pelagica               |   |      |    |         | 3   |
| Skeletonema costatum              |   |      |    |         | 456 |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 23  |

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.2  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 2.7  |
| DINOFLAGELLATES                 | 0.2  |
| BACILLARIOPHYCEAE (DIATOMS)     | 89.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 4.5  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.41      | 0.197    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.18      | 0.197    | SIMPSON  | 1.20      | 0.189    |
| MACINTOSH      | 0.090     | 0.134    | SHELDON  |           | 0.188    |
| EXP. PIELOU    | 1.51      |          | HEIP     |           | 0.073    |

| MONTH                             | 7 | YEAR | 99 | STATION | 104 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 3   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 22  |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Gymnodinium simplex               |   |      |    |         | 7   |
| CHRY SOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Asterionella gracilus             |   |      |    |         | 2   |
| Ceratulina pelagica               |   |      |    |         | 5   |
| Skeletonema costatum              |   |      |    |         | 428 |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 33  |

NUMBER OF TAXA 7 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 4.8  |
| DINOFLAGELLATES                 | 1.3  |
| BACILLARIOPHYCEAE (DIATOMS)     | 83.3 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 6.3  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.61      | 0.313    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.26      | 0.313    | SIMPSON  | 1.35      | 0.304    |
| MACINTOSH      | 0.147     | 0.225    | SHELDON  |           | 0.263    |
| EXP. PIELOU    | 1.84      |          | HEIP     |           | 0.140    |

| MONTH        | 8 | YEAR | 99 | STATION | 101 |
|--------------|---|------|----|---------|-----|
| -----        |   |      |    |         |     |
| CHLOROPHYTA  |   |      |    |         |     |
|              |   |      |    |         | 33  |
|              |   |      |    |         | 45  |
| PYROPHYTA    |   |      |    |         |     |
|              |   |      |    |         | 128 |
| PYROPHYTA    |   |      |    |         |     |
|              |   |      |    |         | 8   |
| CHRYSTOPHYTA |   |      |    |         |     |
|              |   |      |    |         | 108 |
|              |   |      |    |         | 4   |
|              |   |      |    |         | 54  |
|              |   |      |    |         | 41  |
| CYANOPHYTA   |   |      |    |         |     |
|              |   |      |    |         | 79  |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 12.4 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 20.4 |
| DINOFLAGELLATES                 | 1.3  |
| BACILLARIOPHYCEAE (DIATOMS)     | 33.0 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 12.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.92      | 0.873    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.83      | 0.873    | SIMPSON  | 5.94      | 0.936    |
| MACINTOSH      | 0.617     | 0.885    | SHELDON  |           | 0.756    |
| EXP. PIELOU    | 6.81      |          | HEIP     |           | 0.726    |

| MONTH             | 8                                 | YEAR | 99 | STATION | 102 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| CHLOROPHYTA       |                                   |      |    |         |     |
|                   | Chlymentomonas sp.                |      |    |         | 15  |
|                   | Spermatozoopsis exultans          |      |    |         | 14  |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas ovata                 |      |    |         | 4   |
|                   | Cryptomonas sp.1                  |      |    |         | 260 |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Gymnodinium simplex               |      |    |         | 6   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Cyclotella undulata               |      |    |         | 11  |
|                   | Cyclotella sp.                    |      |    |         | 30  |
|                   | Skeletonema costatum              |      |    |         | 71  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 89  |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 3.8  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 34.6 |
| DINOFLAGELLATES                 | 0.8  |
| BACILLARIOPHYCEAE (DIATOMS)     | 14.7 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 11.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.47      | 0.671    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.64      | 0.671    | SIMPSON  | 3.05      | 0.756    |
| MACINTOSH      | 0.447     | 0.641    | SHELDON  |           | 0.485    |
| EXP. PIELOU    | 4.37      |          | HEIP     |           | 0.421    |

| MONTH                             | 8 | YEAR | 99 | STATION | 103 |
|-----------------------------------|---|------|----|---------|-----|
| -----                             |   |      |    |         |     |
| CHLOROPHYTA                       |   |      |    |         |     |
| Spermatozoopsis exultans          |   |      |    |         | 6   |
| EUGLENOPHYTA                      |   |      |    |         |     |
| Eutreptilla sp.                   |   |      |    |         | 3   |
| PYROPHYTA                         |   |      |    |         |     |
| Cryptomonas sp.1                  |   |      |    |         | 49  |
| unidentified flagellate #1        |   |      |    |         | 30  |
| PYROPHYTA                         |   |      |    |         |     |
| DINOPHYCEAE                       |   |      |    |         |     |
| Gonyalux palustre                 |   |      |    |         | 4   |
| CHRYSTOPHYTA                      |   |      |    |         |     |
| BACILLARIOPHYCEAE                 |   |      |    |         |     |
| Cyclotella sp.                    |   |      |    |         | 13  |
| Rhizosolenia fragellissima        |   |      |    |         | 11  |
| Skeletonema costatum              |   |      |    |         | 38  |
| Thalassionema nitzschioides Grun. |   |      |    |         | 15  |
| CYANOPHYTA                        |   |      |    |         |     |
| Synechocystis aquaticus Sauvageau |   |      |    |         | 331 |

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 14.2 |
| DINOFLAGELLATES                 | 0.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 13.3 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 57.2 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.27      | 0.552    | MARGALEV | 1.45      |          |
| PIELOU BASE 10 | 0.55      | 0.552    | SIMPSON  | 2.18      | 0.601    |
| MACINTOSH      | 0.337     | 0.471    | SHELDON  |           | 0.357    |
| EXP. PIELOU    | 3.57      |          | HEIP     |           | 0.285    |

| MONTH             | 8                                 | YEAR | 99 | STATION | 104 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| EUGLENOPHYTA      |                                   |      |    |         |     |
|                   | Eutreptilla sp.                   |      |    |         | 6   |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 22  |
|                   | unidentified flagellate #1        |      |    |         | 2   |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Gonyalux palustre                 |      |    |         | 3   |
| CHRYSOPHYTA       |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Cyclotella sp.                    |      |    |         | 9   |
|                   | Rhizosolenia fragellissima        |      |    |         | 1   |
|                   | Thalassionema nitzschioides Grun. |      |    |         | 54  |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 403 |

NUMBER OF TAXA      8      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 5.7  |
| DINOFLAGELLATES                 | 0.6  |
| BACILLARIOPHYCEAE (DIATOMS)     | 12.2 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 76.9 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.74      | 0.357    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.32      | 0.357    | SIMPSON  | 1.51      | 0.384    |
| MACINTOSH      | 0.194     | 0.287    | SHELDON  |           | 0.263    |
| EXP. PIELOU    | 2.10      |          | HEIP     |           | 0.157    |

| MONTH             | 9 | YEAR | 99 | STATION | 101 |
|-------------------|---|------|----|---------|-----|
| -----             |   |      |    |         |     |
| CHLOROPHYTA       |   |      |    |         |     |
|                   |   |      |    |         | 7   |
|                   |   |      |    |         | 40  |
|                   |   |      |    |         | 9   |
| EUGLENOPHYTA      |   |      |    |         |     |
|                   |   |      |    |         | 6   |
| PYROPHYTA         |   |      |    |         |     |
|                   |   |      |    |         | 56  |
|                   |   |      |    |         | 9   |
|                   |   |      |    |         | 160 |
| PYROPHYTA         |   |      |    |         |     |
| DINOPHYCEAE       |   |      |    |         |     |
|                   |   |      |    |         | 80  |
| CHRYSTOPHYTA      |   |      |    |         |     |
| BACILLARIOPHYCEAE |   |      |    |         |     |
|                   |   |      |    |         | 2   |
|                   |   |      |    |         | 11  |
|                   |   |      |    |         | 5   |
| CYANOPHYTA        |   |      |    |         |     |
|                   |   |      |    |         | 115 |

NUMBER OF TAXA 12 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 7.7  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 31.9 |
| DINOFLAGELLATES                 | 11.0 |
| BACILLARIOPHYCEAE (DIATOMS)     | 2.5  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 15.9 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.85      | 0.746    | MARGALEV | 1.77      |          |
| PIELOU BASE 10 | 0.80      | 0.746    | SIMPSON  | 4.96      | 0.871    |
| MACINTOSH      | 0.577     | 0.775    | SHELDON  |           | 0.531    |
| EXP. PIELOU    | 6.38      |          | HEIP     |           | 0.489    |

| MONTH             | 9 | YEAR | 99 | STATION                           | 102 |
|-------------------|---|------|----|-----------------------------------|-----|
| -----             |   |      |    |                                   |     |
| CHLOROPHYTA       |   |      |    |                                   |     |
|                   |   |      |    | Spermatozoopsis exultans          | 9   |
| EUGLENOPHYTA      |   |      |    |                                   |     |
|                   |   |      |    | Eutreptilla sp.                   | 5   |
| PYROPHYTA         |   |      |    |                                   |     |
|                   |   |      |    | Cryptomonas ovata                 | 4   |
|                   |   |      |    | Cryptomonas sp.1                  | 269 |
| PYROPHYTA         |   |      |    |                                   |     |
| DINOPHYCEAE       |   |      |    |                                   |     |
|                   |   |      |    | Gonyalux palustre                 | 7   |
|                   |   |      |    | Gymnodinium simplex               | 8   |
| CHRYSOPHYTA       |   |      |    |                                   |     |
| BACILLARIOPHYCEAE |   |      |    |                                   |     |
|                   |   |      |    | Skeletonema costatum              | 57  |
| CYANOPHYTA        |   |      |    |                                   |     |
|                   |   |      |    | Synechocystis aquaticus Sauvageau | 141 |

NUMBER OF TAXA      8      TOTAL NUMBER OF INDIVIDUALS   500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.2  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 36.0 |
| DINOFLAGELLATES                 | 1.9  |
| BACILLARIOPHYCEAE (DIATOMS)     | 7.4  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 18.2 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.22      | 0.587    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.53      | 0.587    | SIMPSON  | 2.61      | 0.705    |
| MACINTOSH      | 0.399     | 0.590    | SHELDON  |           | 0.424    |
| EXP. PIELOU    | 3.39      |          | HEIP     |           | 0.341    |



| MONTH             | 9 | YEAR | 99 | STATION | 103                                   |
|-------------------|---|------|----|---------|---------------------------------------|
| -----             |   |      |    |         |                                       |
| CHLOROPHYTA       |   |      |    |         |                                       |
|                   |   |      |    |         | Spermatozoopsis exultans 9            |
| PYROPHYTA         |   |      |    |         |                                       |
|                   |   |      |    |         | Cryptomonas erosa 2                   |
|                   |   |      |    |         | Cryptomonas sp.1 301                  |
|                   |   |      |    |         | unidentified flagellate #1 1          |
| PYROPHYTA         |   |      |    |         |                                       |
| DINOPHYCEAE       |   |      |    |         |                                       |
|                   |   |      |    |         | Gymnodinium simplex 37                |
|                   |   |      |    |         | Peridinium cerasus 10                 |
| CHRYSTOPHYTA      |   |      |    |         |                                       |
| BACILLARIOPHYCEAE |   |      |    |         |                                       |
|                   |   |      |    |         | Cyclotella sp. 6                      |
|                   |   |      |    |         | Skeletonema costatum 7                |
| CYANOPHYTA        |   |      |    |         |                                       |
|                   |   |      |    |         | Synechocystis aquaticus Sauvageau 127 |

NUMBER OF TAXA 9 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.1  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 37.8 |
| DINOFLAGELLATES                 | 5.8  |
| BACILLARIOPHYCEAE (DIATOMS)     | 1.6  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 15.8 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.14      | 0.521    | MARGALEV | 1.29      |          |
| PIELOU BASE 10 | 0.50      | 0.521    | SIMPSON  | 2.31      | 0.637    |
| MACINTOSH      | 0.358     | 0.512    | SHELDON  |           | 0.349    |
| EXP. PIELOU    | 3.14      |          | HEIP     |           | 0.267    |

|              |                                   |      |    |         |     |
|--------------|-----------------------------------|------|----|---------|-----|
| MONTH        | 9                                 | YEAR | 99 | STATION | 104 |
| -----        |                                   |      |    |         |     |
| PYROPHYTA    |                                   |      |    |         |     |
|              | Cryptomonas ovata                 |      |    |         | 26  |
|              | Cryptomonas sp.1                  |      |    |         | 289 |
| PYROPHYTA    |                                   |      |    |         |     |
|              | DINOPHYCEAE                       |      |    |         |     |
|              | Gymnodinium simplex               |      |    |         | 38  |
| CHRYSTOPHYTA |                                   |      |    |         |     |
|              | BACILLARIOPHYCEAE                 |      |    |         |     |
|              | Skeletonema costatum              |      |    |         | 12  |
| CYANOPHYTA   |                                   |      |    |         |     |
|              | Synechocystis aquaticus Sauvageau |      |    |         | 135 |

NUMBER OF TAXA      5      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 38.7 |
| DINOFLAGELLATES                 | 4.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 1.5  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 16.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.11      | 0.689    | MARGALEV | 0.64      |          |
| PIELOU BASE 10 | 0.48      | 0.689    | SIMPSON  | 2.40      | 0.730    |
| MACINTOSH      | 0.372     | 0.642    | SHELDON  |           | 0.607    |
| EXP. PIELOU    | 3.03      |          | HEIP     |           | 0.508    |

| MONTH                             | 10 | YEAR | 99 | STATION | 101 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| CHLOROPHYTA                       |    |      |    |         |     |
|                                   |    |      |    |         | 88  |
| Scenedesmus quadricauda v. Westii |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
|                                   |    |      |    |         | 39  |
| Cryptomonas sp.1                  |    |      |    |         |     |
| CHRYSTOPHYTA                      |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
|                                   |    |      |    |         | 14  |
| Skeletonema costatum              |    |      |    |         |     |
| CYANOPHYTA                        |    |      |    |         |     |
|                                   |    |      |    |         | 343 |
| Synechocystis aquaticus Sauvageau |    |      |    |         |     |
|                                   |    |      |    |         | 16  |
| Spriulina sp.1                    |    |      |    |         |     |

NUMBER OF TAXA      5      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 16.3 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 7.2  |
| DINOFLAGELLATES                 | 0.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 2.6  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 66.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.97      | 0.605    | MARGALEV | 0.64      |          |
| PIELOU BASE 10 | 0.42      | 0.605    | SIMPSON  | 1.96      | 0.613    |
| MACINTOSH      | 0.300     | 0.518    | SHELDON  |           | 0.529    |
| EXP. PIELOU    | 2.65      |          | HEIP     |           | 0.412    |

| MONTH                             | 10 | YEAR | 99 | STATION | 102 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| CHLOROPHYTA                       |    |      |    |         |     |
|                                   |    |      |    |         | 2   |
| Scenedesmus quadricauda v. Westii |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
|                                   |    |      |    |         | 249 |
| Cryptomonas sp.1                  |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
|                                   |    |      |    |         | 7   |
| Gymnodinium simplex               |    |      |    |         |     |
|                                   |    |      |    |         | 6   |
| Peridinium cerasus                |    |      |    |         |     |
|                                   |    |      |    |         | 5   |
| Prorocentrum micans               |    |      |    |         |     |
| CHRY SOPHYTA                      |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
|                                   |    |      |    |         | 39  |
| Skeletonema costatum              |    |      |    |         |     |
| CYANOPHYTA                        |    |      |    |         |     |
|                                   |    |      |    |         | 190 |
| Synechocystis aquaticus Sauvageau |    |      |    |         |     |
|                                   |    |      |    |         | 2   |
| Oscillatoria rubescens (trichome) |    |      |    |         |     |

NUMBER OF TAXA 8 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.3  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 33.2 |
| DINOFLAGELLATES                 | 2.4  |
| BACILLARIOPHYCEAE (DIATOMS)     | 5.2  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 25.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.12      | 0.537    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.49      | 0.537    | SIMPSON  | 2.51      | 0.687    |
| MACINTOSH      | 0.386     | 0.570    | SHELDON  |           | 0.382    |
| EXP. PIELOU    | 3.06      |          | HEIP     |           | 0.294    |

| MONTH                             | 10 | YEAR | 99 | STATION | 103 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
|                                   |    |      |    |         | 199 |
| Cryptomonas sp.1                  |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
|                                   |    |      |    |         | 11  |
| Certaum hircus                    |    |      |    |         |     |
|                                   |    |      |    |         | 2   |
| Gymnodinium simplex               |    |      |    |         |     |
|                                   |    |      |    |         | 26  |
| Peridinium cerasus                |    |      |    |         |     |
|                                   |    |      |    |         | 29  |
| Prorocentrum micans               |    |      |    |         |     |
| CHRYSOPHYTA                       |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
|                                   |    |      |    |         | 222 |
| Skeletonema costatum              |    |      |    |         |     |
| CYANOPHYTA                        |    |      |    |         |     |
|                                   |    |      |    |         | 11  |
| Synechocystis aquaticus Sauvageau |    |      |    |         |     |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 28.5 |
| DINOFLAGELLATES                 | 9.7  |
| BACILLARIOPHYCEAE (DIATOMS)     | 31.8 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 1.6  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.24      | 0.635    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.54      | 0.635    | SIMPSON  | 2.76      | 0.744    |
| MACINTOSH      | 0.416     | 0.640    | SHELDON  |           | 0.492    |
| EXP. PIELOU    | 3.44      |          | HEIP     |           | 0.407    |

| MONTH             | 10                                | YEAR | 99 | STATION | 104 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 118 |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Gymnodinium simplex               |      |    |         | 9   |
|                   | Prorocentrum micans               |      |    |         | 4   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Nitzschia fruticosa               |      |    |         | 3   |
|                   | Skeletonema costatum              |      |    |         | 327 |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 39  |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 19.1 |
| DINOFLAGELLATES                 | 2.1  |
| BACILLARIOPHYCEAE (DIATOMS)     | 53.4 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 6.3  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.96      | 0.535    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.42      | 0.535    | SIMPSON  | 2.04      | 0.612    |
| MACINTOSH      | 0.314     | 0.507    | SHELDON  |           | 0.435    |
| EXP. PIELOU    | 2.61      |          | HEIP     |           | 0.322    |

| MONTH        | 11 | YEAR | 99 | STATION | 101 |
|--------------|----|------|----|---------|-----|
| -----        |    |      |    |         |     |
| CHLOROPHYTA  |    |      |    |         |     |
|              |    |      |    |         | 7   |
|              |    |      |    |         | 71  |
| EUGLENOPHYTA |    |      |    |         |     |
|              |    |      |    |         | 15  |
| PYROPHYTA    |    |      |    |         |     |
|              |    |      |    |         | 56  |
| PYROPHYTA    |    |      |    |         |     |
|              |    |      |    |         | 11  |
| CHRYSTOPHYTA |    |      |    |         |     |
|              |    |      |    |         | 4   |
|              |    |      |    |         | 3   |
|              |    |      |    |         | 85  |
|              |    |      |    |         | 30  |
| CYANOPHYTA   |    |      |    |         |     |
|              |    |      |    |         | 218 |

NUMBER OF TAXA 10 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 14.0 |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 12.8 |
| DINOFLAGELLATES                 | 2.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 21.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 39.2 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.67      | 0.726    | MARGALEV | 1.45      |          |
| PIELOU BASE 10 | 0.73      | 0.726    | SIMPSON  | 3.89      | 0.826    |
| MACINTOSH      | 0.516     | 0.721    | SHELDON  |           | 0.533    |
| EXP. PIELOU    | 5.33      |          | HEIP     |           | 0.481    |

| MONTH             | 11                                | YEAR | 99 | STATION | 102 |
|-------------------|-----------------------------------|------|----|---------|-----|
| -----             |                                   |      |    |         |     |
| PYROPHYTA         |                                   |      |    |         |     |
|                   | Cryptomonas sp.1                  |      |    |         | 17  |
| PYROPHYTA         |                                   |      |    |         |     |
| DINOPHYCEAE       |                                   |      |    |         |     |
|                   | Peridinium cerasus                |      |    |         | 2   |
| CHRYSTOPHYTA      |                                   |      |    |         |     |
| BACILLARIOPHYCEAE |                                   |      |    |         |     |
|                   | Biddulphia sinensis               |      |    |         | 1   |
|                   | Nitzschia tryblionella            |      |    |         | 1   |
|                   | Skeletonema costatum              |      |    |         | 475 |
| CYANOPHYTA        |                                   |      |    |         |     |
|                   | Synechocystis aquaticus Sauvageau |      |    |         | 4   |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 3.3  |
| DINOFLAGELLATES                 | 0.4  |
| BACILLARIOPHYCEAE (DIATOMS)     | 92.3 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 0.8  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.25      | 0.139    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.11      | 0.139    | SIMPSON  | 1.11      | 0.116    |
| MACINTOSH      | 0.052     | 0.083    | SHELDON  |           | 0.214    |
| EXP. PIELOU    | 1.28      |          | HEIP     |           | 0.057    |



| MONTH                             | 11 | YEAR | 99 | STATION | 103 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
| Cryptomonas sp.1                  |    |      |    |         | 22  |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
| Dinophysis caudata                |    |      |    |         | 3   |
| Peridinium cerasus                |    |      |    |         | 2   |
| CHRYSOPHYTA                       |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
| Biddulphia sinensis               |    |      |    |         | 3   |
| Ceratulina pelagica               |    |      |    |         | 4   |
| Nitzschia tryblionella            |    |      |    |         | 3   |
| Skeletonema costatum              |    |      |    |         | 452 |
| CYANOPHYTA                        |    |      |    |         |     |
| Synechocystis aquaticus Sauvageau |    |      |    |         | 11  |

NUMBER OF TAXA      8      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 4.2  |
| DINOFLAGELLATES                 | 1.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 88.5 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 2.1  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.47      | 0.224    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.20      | 0.224    | SIMPSON  | 1.22      | 0.206    |
| MACINTOSH      | 0.099     | 0.146    | SHELDON  |           | 0.199    |
| EXP. PIELOU    | 1.59      |          | HEIP     |           | 0.085    |

| MONTH                             | 11 | YEAR | 99 | STATION | 104 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
| Cryptomonas sp.1                  |    |      |    |         | 31  |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
| Certaum hircus                    |    |      |    |         | 1   |
| Gonyalux palustre                 |    |      |    |         | 1   |
| CHRYSOPHYTA                       |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
| Biddulphia sinensis               |    |      |    |         | 1   |
| Nitzschia fruticosa               |    |      |    |         | 2   |
| Nitzschia spp.                    |    |      |    |         | 1   |
| Skeletonema costatum              |    |      |    |         | 414 |
| CYANOPHYTA                        |    |      |    |         |     |
| Synechocystis aquaticus Sauvageau |    |      |    |         | 49  |

NUMBER OF TAXA      8      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 5.8  |
| DINOFLAGELLATES                 | 0.4  |
| BACILLARIOPHYCEAE (DIATOMS)     | 78.7 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 9.2  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 0.63      | 0.302    | MARGALEV | 1.13      |          |
| PIELOU BASE 10 | 0.27      | 0.302    | SIMPSON  | 1.43      | 0.344    |
| MACINTOSH      | 0.172     | 0.254    | SHELDON  |           | 0.234    |
| EXP. PIELOU    | 1.87      |          | HEIP     |           | 0.125    |

| MONTH        | 12 | YEAR | 99 | STATION | 101 |
|--------------|----|------|----|---------|-----|
| -----        |    |      |    |         |     |
| CHLOROPHYTA  |    |      |    |         |     |
|              |    |      |    |         | 9   |
|              |    |      |    |         | 16  |
|              |    |      |    |         | 2   |
| PYROPHYTA    |    |      |    |         |     |
|              |    |      |    |         | 23  |
| PYROPHYTA    |    |      |    |         |     |
|              |    |      |    |         | 3   |
| CHRYSTOPHYTA |    |      |    |         |     |
|              |    |      |    |         | 199 |
|              |    |      |    |         | 9   |
|              |    |      |    |         | 12  |
|              |    |      |    |         | 35  |
|              |    |      |    |         | 32  |
| CYANOPHYTA   |    |      |    |         |     |
|              |    |      |    |         | 160 |

NUMBER OF TAXA 11 TOTAL NUMBER OF INDIVIDUALS 500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 5.2  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 4.4  |
| DINOFLAGELLATES                 | 0.6  |
| BACILLARIOPHYCEAE (DIATOMS)     | 54.9 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 30.6 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.63      | 0.681    | MARGALEV | 1.61      |          |
| PIELOU BASE 10 | 0.71      | 0.681    | SIMPSON  | 3.65      | 0.798    |
| MACINTOSH      | 0.499     | 0.682    | SHELDON  |           | 0.465    |
| EXP. PIELOU    | 5.11      |          | HEIP     |           | 0.411    |

|              |                                   |      |    |         |     |
|--------------|-----------------------------------|------|----|---------|-----|
| MONTH        | 12                                | YEAR | 99 | STATION | 102 |
| -----        |                                   |      |    |         |     |
| PYROPHYTA    |                                   |      |    |         |     |
|              | Cryptomonas ovata                 |      |    |         | 9   |
|              | Cryptomonas sp.1                  |      |    |         | 299 |
| PYROPHYTA    |                                   |      |    |         |     |
|              | DINOPHYCEAE                       |      |    |         |     |
|              | Gymnodinium splendens             |      |    |         | 7   |
|              | Peridinium cerasus                |      |    |         | 1   |
| CHRYSTOPHYTA |                                   |      |    |         |     |
|              | BACILLARIOPHYCEAE                 |      |    |         |     |
|              | Skeletonema costatum              |      |    |         | 65  |
| CYANOPHYTA   |                                   |      |    |         |     |
|              | Synechocystis aquaticus Sauvageau |      |    |         | 119 |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 38.1 |
| DINOFLAGELLATES                 | 1.0  |
| BACILLARIOPHYCEAE (DIATOMS)     | 8.0  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 14.7 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.06      | 0.591    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.46      | 0.591    | SIMPSON  | 2.32      | 0.682    |
| MACINTOSH      | 0.359     | 0.580    | SHELDON  |           | 0.481    |
| EXP. PIELOU    | 2.88      |          | HEIP     |           | 0.377    |

| MONTH                             | 12 | YEAR | 99 | STATION | 103 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| CHLOROPHYTA                       |    |      |    |         |     |
| Chlymentomonas sp.                |    |      |    |         | 11  |
| PYROPHYTA                         |    |      |    |         |     |
| Cryptomonas sp.1                  |    |      |    |         | 301 |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
| Gonyalux scrippsae                |    |      |    |         | 21  |
| Gymnodinium splendens             |    |      |    |         | 5   |
| CHRY SOPHYTA                      |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
| Nitzschia spp.                    |    |      |    |         | 15  |
| CYANOPHYTA                        |    |      |    |         |     |
| Synechocystis aquaticus Sauvageau |    |      |    |         | 147 |

NUMBER OF TAXA      6      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 1.4  |
| EUGLENO+PYROPHYTA (FLAGALLATES) | 37.6 |
| DINOFLAGALLATES                 | 3.2  |
| BACILLARIOPHYCEAE (DIATOMS)     | 1.9  |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 18.4 |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.03      | 0.577    | MARGALEV | 0.80      |          |
| PIELOU BASE 10 | 0.45      | 0.577    | SIMPSON  | 2.21      | 0.657    |
| MACINTOSH      | 0.343     | 0.554    | SHELDON  |           | 0.469    |
| EXP. PIELOU    | 2.81      |          | HEIP     |           | 0.362    |

| MONTH                             | 12 | YEAR | 99 | STATION | 104 |
|-----------------------------------|----|------|----|---------|-----|
| -----                             |    |      |    |         |     |
| PYROPHYTA                         |    |      |    |         |     |
| Cryptomonas sp.1                  |    |      |    |         | 295 |
| PYROPHYTA                         |    |      |    |         |     |
| DINOPHYCEAE                       |    |      |    |         |     |
| Gonyalux palustre                 |    |      |    |         | 5   |
| CHRYSTOPHYTA                      |    |      |    |         |     |
| BACILLARIOPHYCEAE                 |    |      |    |         |     |
| Biddulphia sinensis               |    |      |    |         | 29  |
| Navicula spp.                     |    |      |    |         | 9   |
| Nitzschia palea                   |    |      |    |         | 24  |
| Skeletonema costatum              |    |      |    |         | 135 |
| CYANOPHYTA                        |    |      |    |         |     |
| Synechocystis aquaticus Sauvageau |    |      |    |         | 3   |

NUMBER OF TAXA      7      TOTAL NUMBER OF INDIVIDUALS    500.

#### PERCENT WITHIN MAJOR TAXONOMIC GROUPS

|                                 |      |
|---------------------------------|------|
| CHLOROPHYTA (GREEN ALGAE)       | 0.0  |
| EUGLENO+PYROPHYTA (FLAGELLATES) | 37.1 |
| DINOFLAGELLATES                 | 0.6  |
| BACILLARIOPHYCEAE (DIATOMS)     | 24.8 |
| CYANOPHYTA (BLUE-GREEN ALGAE)   | 0.4  |

#### DIVERSITY AND EVENNESS INDICES

|                | DIVERSITY | EVENNESS |          | DIVERSITY | EVENNESS |
|----------------|-----------|----------|----------|-----------|----------|
| PIELOU BASE E  | 1.12      | 0.578    | MARGALEV | 0.97      |          |
| PIELOU BASE 10 | 0.49      | 0.578    | SIMPSON  | 2.34      | 0.668    |
| MACINTOSH      | 0.363     | 0.557    | SHELDON  |           | 0.440    |
| EXP. PIELOU    | 3.08      |          | HEIP     |           | 0.347    |



**Back to Start**

# **APPENDIX C**

## **Phytoplankton Taxonomy Summary Results of Monthly Sampling**



**Back to Start**

# **APPENDIX D**

**Summary of Surface Water Chemistry Data  
Collected in Conjunction  
with Primary Production Data**



Sample#: 120      Sample Date      01/14/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 78.3   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 38.1   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 80.    | Co-Pt     |
|                     | TURBIDITY                    | 2.     | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.759  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.031  | mg/L      |
|                     | TOT.KJEL.N                   | 0.802  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.584  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.703  | mg/L      |
|                     | SILICA-Si                    | 2.53   | mg/L      |
|                     | INORGANIC CARBON             | 12.8   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 16.6   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 15.9   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.563  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.147  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 2.81   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 1.61   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 2.02   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 3.03   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 1.85   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.98   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 2.15   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 1.26   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.51   | mg/cuM    |
|                     | CHLA-A (S)                   | 1.49   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | <      | 1. mg/cuM |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 1.26   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | 1.26   | mg/cuM    |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 121      Sample Date      01/14/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 81.    | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 3090.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 65.    | Co-Pt  |
|                     | TURBIDITY                    | 4.5    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.365  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | < 0.01 | mg/L   |
|                     | TOT.KJEL.N                   | 1.62   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.468  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.748  | mg/L   |
|                     | SILICA-Si                    | 2.4    | mg/L   |
|                     | INORGANIC CARBON             | 13.7   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 16.1   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 16.4   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.463  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.122  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 111.8  | mg/cuM |
|                     | CHLA-A (F) corr.             | 120.7  | mg/cuM |
|                     | CHLA-A (F) pheo.             | 15.1   | mg/cuM |
|                     | CHLA-B (F) unc.              | 86.3   | mg/cuM |
|                     | CHLA-B (F) corr.             | 93.    | mg/cuM |
|                     | CHLA-B (F) pheo.             | 11.4   | mg/cuM |
|                     | CHLA-C (F) unc.              | 51.2   | mg/cuM |
|                     | CHLA-C (F) corr.             | 54.2   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 5.01   | mg/cuM |
|                     | CHLA-A (S)                   | 23.5   | mg/cuM |
|                     | CHLB-A (S)                   | 3.44   | mg/cuM |
|                     | CHLC-A (S)                   | 6.76   | mg/cuM |
|                     | CHLA-B (S)                   | < 1.   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 14.    | mg/cuM |
|                     | CHLA-C (S)                   | 6.7    | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 6.7    | mg/cuM |
|                     | CHLA-A (S) corr.             | 20.8   | mg/cuM |
|                     | CHLA-B (S) corr.             | 43.3   | mg/cuM |
|                     | CHLA-C (S) corr.             | 20.8   | mg/cuM |

Sample#: 122      Sample Date i      01/14/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 95.3   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 6460.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 55.    | Co-Pt  |
|                     | TURBIDITY                    | 3.3    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.053  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | < 0.01 | mg/L   |
|                     | TOT.KJEL.N                   | 1.23   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.289  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.508  | mg/L   |
|                     | SILICA-Si                    | 2.     | mg/L   |
|                     | INORGANIC CARBON             | 15.7   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 14.1   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 13.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.288  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.162  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 48.3   | mg/cuM |
|                     | CHLA-A (F) corr.             | 50.7   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 4.11   | mg/cuM |
|                     | CHLA-B (F) unc.              | 32.4   | mg/cuM |
|                     | CHLA-B (F) corr.             | 33.9   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 2.49   | mg/cuM |
|                     | CHLA-C (F) unc.              | 18.8   | mg/cuM |
|                     | CHLA-C (F) corr.             | 18.6   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.283  | mg/cuM |
|                     | CHLA-A (S)                   | 12.8   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 5.98   | mg/cuM |
|                     | CHLA-B (S)                   | < 1.   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 6.14   | mg/cuM |
|                     | CHLA-C (S)                   | 3.54   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 3.54   | mg/cuM |
|                     | CHLA-A (S) corr.             | 8.54   | mg/cuM |
|                     | CHLA-B (S) corr.             | 18.7   | mg/cuM |
|                     | CHLA-C (S) corr.             | 8.54   | mg/cuM |

Sample#: 123      Sample Date      01/14/99  
 Station: 104

| Group               | Analysis                     | Result  | Units  |
|---------------------|------------------------------|---------|--------|
| Acid Base           |                              |         |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 99.3    | mg/L   |
| Minerals            |                              |         |        |
|                     | CHLORIDE                     | 12830.  | mg/L   |
| Esthetic Properties |                              |         |        |
|                     | COLOR (Color Units)          | 45.     | Co-Pt  |
|                     | TURBIDITY                    | 2.      | NTU    |
| Nutrients           |                              |         |        |
|                     | TOT. NITRATE+NITRITE         | < 0.002 | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | < 0.01  | mg/L   |
|                     | TOT.KJEL.N                   | 0.572   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.153   | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.276   | mg/L   |
|                     | SILICA-Si                    | 1.21    | mg/L   |
|                     | INORGANIC CARBON             | 16.4    | mg/L   |
|                     | TOT. ORGANIC CARBON          | 10.5    | mg/L   |
|                     | DISS. ORGANIC CARBON         | 10.3    | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.148   | mg/L   |
| Trace Metals        |                              |         |        |
|                     | IRON                         | 0.217   | mg/L   |
| Extractables        |                              |         |        |
|                     | CHLA-A (F) unc.              | 4.95    | mg/cuM |
|                     | CHLA-A (F) corr.             | 4.48    | mg/cuM |
|                     | CHLA-A (F) pheo.             | 0.796   | mg/cuM |
|                     | CHLA-B (F) unc.              | 3.9     | mg/cuM |
|                     | CHLA-B (F) corr.             | 3.53    | mg/cuM |
|                     | CHLA-B (F) pheo.             | 0.639   | mg/cuM |
|                     | CHLA-C (F) unc.              | 3.27    | mg/cuM |
|                     | CHLA-C (F) corr.             | 2.81    | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.779   | mg/cuM |
|                     | CHLA-A (S)                   | 2.53    | mg/cuM |
|                     | CHLB-A (S)                   | < 1.    | mg/cuM |
|                     | CHLC-A (S)                   | < 1.    | mg/cuM |
|                     | CHLA-B (S)                   | < 1.    | mg/cuM |
|                     | CHLB-B (S)                   | < 1.    | mg/cuM |
|                     | CHLC-B (S)                   | < 1.    | mg/cuM |
|                     | CHLA-C (S)                   | < 1.    | mg/cuM |
|                     | CHLB-C (S)                   | < 1.    | mg/cuM |
|                     | CHLC-C (S)                   | < 1.    | mg/cuM |
|                     | CHLA-A (S) corr.             | < 1.    | mg/cuM |
|                     | CHLA-B (S) corr.             | 2.67    | mg/cuM |
|                     | CHLA-C (S) corr.             | < 1.    | mg/cuM |

Sample#: 1153      Sample Date      02/12/99  
 Station: 101      Station Desc:

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 68.    | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 117.   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 120.   | Co-Pt     |
|                     | TURBIDITY                    | 3.4    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.505  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.02   | mg/L      |
|                     | TOT.KJEL.N                   | 1.01   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.697  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.784  | mg/L      |
|                     | SILICA-Si                    | 2.97   | mg/L      |
|                     | INORGANIC CARBON             | 9.58   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 20.5   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 19.8   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.666  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.17   | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 5.48   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 4.51   | mg/cuM    |
|                     | CHLA-A (F) phao.             | 1.63   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 5.1    | mg/cuM    |
|                     | CHLA-B (F) corr.             | 4.21   | mg/cuM    |
|                     | CHLA-B (F) phao.             | 1.5    | mg/cuM    |
|                     | CHLA-C (F) unc.              | 4.62   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 3.82   | mg/cuM    |
|                     | CHLA-C (F) phao.             | 1.35   | mg/cuM    |
|                     | CHLA-A (S)                   | 4.28   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 4.79   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 4.3    | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 2.97   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 2.67   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 2.67   | mg/cuM    |

Sample#: 1154      Sample Date      02/12/99  
 Station: 102

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 77.1   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 3910.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 100.   | Co-Pt     |
|                     | TURBIDITY                    | 4.7    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.129  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | <      | 0.01 mg/L |
|                     | TOT.KJEL.N                   | 1.49   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.45   | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.617  | mg/L      |
|                     | SILICA-Si                    | 1.71   | mg/L      |
|                     | INORGANIC CARBON             | 11.    | mg/L      |
|                     | TOT. ORGANIC CARBON          | 18.9   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 18.6   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.426  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.141  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 51.4   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 29.1   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 37.7   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 49.4   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 51.8   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 4.08   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 38.5   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 38.9   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.671  | mg/cuM    |
|                     | CHLA-A (S)                   | 50.1   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | 15.9   | mg/cuM    |
|                     | CHLA-B (S)                   | 39.6   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | 12.4   | mg/cuM    |
|                     | CHLA-C (S)                   | 12.6   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | 3.78   | mg/cuM    |
|                     | CHLA-A (S) corr.             | 45.1   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 36.2   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 9.49   | mg/cuM    |

Sample#: 1155      Sample Date/Ti      02/11/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 91.4   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 9360.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 60.    | Co-Pt  |
|                     | TURBIDITY                    | 2.9    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.015  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | < 0.01 | mg/L   |
|                     | TOT.KJEL.N                   | 0.808  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.272  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.349  | mg/L   |
|                     | SILICA-Si                    | 0.506  | mg/L   |
|                     | INORGANIC CARBON             | 15.2   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 15.2   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 14.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.253  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.18   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 22.3   | mg/cuM |
|                     | CHLA-A (F) corr.             | 23.1   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.25   | mg/cuM |
|                     | CHLA-B (F) unc.              | 6.27   | mg/cuM |
|                     | CHLA-B (F) corr.             | 5.56   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.2    | mg/cuM |
|                     | CHLA-C (F) unc.              | 5.71   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.14   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.963  | mg/cuM |
|                     | CHLA-A (S)                   | 15.3   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 3.34   | mg/cuM |
|                     | CHLA-B (S)                   | 4.85   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 2.57   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 12.6   | mg/cuM |
|                     | CHLA-B (S) corr.             | 2.67   | mg/cuM |
|                     | CHLA-C (S) corr.             | 1.53   | mg/cuM |

Sample#: 1156      Sample Date      02/11/99  
 Station: 104

| Group               | Analysis                     | Result  | Units  |
|---------------------|------------------------------|---------|--------|
| Acid Base           |                              |         |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 101.    | mg/L   |
| Minerals            |                              |         |        |
|                     | CHLORIDE                     | 14530.  | mg/L   |
| Esthetic Properties |                              |         |        |
|                     | COLOR (Color Units)          | 38.     | Co-Pt  |
|                     | TURBIDITY                    | 0.9     | NTU    |
| Nutrients           |                              |         |        |
|                     | TOT. NITRATE+NITRITE         | < 0.002 | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | < 0.01  | mg/L   |
|                     | TOT.KJEL.N                   | 0.59    | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.123   | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.167   | mg/L   |
|                     | SILICA-Si                    | 0.267   | mg/L   |
|                     | INORGANIC CARBON             | 13.6    | mg/L   |
|                     | TOT. ORGANIC CARBON          | 12.2    | mg/L   |
|                     | DISS. ORGANIC CARBON         | 13.3    | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.117   | mg/L   |
| Trace Metals        |                              |         |        |
|                     | IRON                         | 0.208   | mg/L   |
| Extractables        |                              |         |        |
|                     | CHLA-A (F) unc.              | 7.14    | mg/cuM |
|                     | CHLA-A (F) corr.             | 6.9     | mg/cuM |
|                     | CHLA-A (F) pheo.             | 0.396   | mg/cuM |
|                     | CHLA-B (F) unc.              | 2.6     | mg/cuM |
|                     | CHLA-B (F) corr.             | 2.12    | mg/cuM |
|                     | CHLA-B (F) pheo.             | 0.806   | mg/cuM |
|                     | CHLA-C (F) unc.              | 2.29    | mg/cuM |
|                     | CHLA-C (F) corr.             | 1.88    | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.695   | mg/cuM |
|                     | CHLA-A (S)                   | 5.68    | mg/cuM |
|                     | CHLB-A (S)                   | < 1.    | mg/cuM |
|                     | CHLC-A (S)                   | 1.21    | mg/cuM |
|                     | CHLA-B (S)                   | 3.17    | mg/cuM |
|                     | CHLB-B (S)                   | < 1.    | mg/cuM |
|                     | CHLC-B (S)                   | < 1.    | mg/cuM |
|                     | CHLA-C (S)                   | 2.26    | mg/cuM |
|                     | CHLB-C (S)                   | < 1.    | mg/cuM |
|                     | CHLC-C (S)                   | < 1.    | mg/cuM |
|                     | CHLA-A (S) corr.             | 5.07    | mg/cuM |
|                     | CHLA-B (S) corr.             | 2.4     | mg/cuM |
|                     | CHLA-C (S) corr.             | 1.34    | mg/cuM |



Sample#: 2677      Sample Date      03/11/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 83.3   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 55.7   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 70.    | Co-Pt     |
|                     | TURBIDITY                    | 2.     | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.433  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.051  | mg/L      |
|                     | TOT.KJEL.N                   | 0.726  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.66   | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.727  | mg/L      |
|                     | SILICA-Si                    | 1.31   | mg/L      |
|                     | INORGANIC CARBON             | 14.7   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 17.1   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 17.4   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.651  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.071  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 2.65   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 1.7    | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 1.6    | mg/cuM    |
|                     | CHLA-B (F) unc.              | 2.77   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 1.85   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.55   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 2.32   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 1.52   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.34   | mg/cuM    |
|                     | CHLA-A (S)                   | <      | 1. mg/cuM |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 1.15   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | <      | 1. mg/cuM |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 2678      Sample Date/Ti      03/11/99  
 Station: 102

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 78.4   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 3750.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 70.    | Co-Pt     |
|                     | TURBIDITY                    | 3.1    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.09   | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.017  | mg/L      |
|                     | TOT.KJEL.N                   | 0.949  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.413  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.517  | mg/L      |
|                     | SILICA-Si                    | 1.04   | mg/L      |
|                     | INORGANIC CARBON             | 13.8   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 17.6   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 17.7   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.393  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.081  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 22.    | mg/cuM    |
|                     | CHLA-A (F) corr.             | 22.2   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.459  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 19.2   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 18.8   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.556  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 15.1   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 14.5   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.9    | mg/cuM    |
|                     | CHLA-A (S)                   | 23.4   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 21.6   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 13.4   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 17.2   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 15.3   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 5.34   | mg/cuM    |

Sample#: 2679      Sample Date      03/12/99  
 Station: 103

| Group               | Analysis                     | Result | Units       |
|---------------------|------------------------------|--------|-------------|
| Acid Base           |                              |        |             |
|                     | ALKALINITY-CaCO <sub>3</sub> | 85.1   | mg/L        |
| Minerals            |                              |        |             |
|                     | CHLORIDE                     | 7640.  | mg/L        |
| Esthetic Properties |                              |        |             |
|                     | COLOR (Color Units)          | 48.    | Co-Pt       |
|                     | TURBIDITY                    | 6.5    | NTU         |
| Nutrients           |                              |        |             |
|                     | TOT. NITRATE+NITRITE         | <      | 0.002 mg/L  |
|                     | AMMONIA/AMMONIUM-NITROGEN    |        | 0.014 mg/L  |
|                     | TOT.KJEL.N                   |        | 0.938 mg/L  |
|                     | ORTHOPHOSPHATE P04-P         |        | 0.266 mg/L  |
|                     | TOTAL PHOSPHORUS             |        | 0.421 mg/L  |
|                     | SILICA-Si                    |        | 0.17 mg/L   |
|                     | INORGANIC CARBON             |        | 14.9 mg/L   |
|                     | TOT. ORGANIC CARBON          |        | 16.2 mg/L   |
|                     | DISS. ORGANIC CARBON         |        | 16.1 mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    |        | 0.241 mg/L  |
| Trace Metals        |                              |        |             |
|                     | IRON                         |        | 0.1 mg/L    |
| Extractables        |                              |        |             |
|                     | CHLA-A (F) unc.              |        | 15.9 mg/cuM |
|                     | CHLA-A (F) corr.             |        | 14.3 mg/cuM |
|                     | CHLA-A (F) pheo.             |        | 2.65 mg/cuM |
|                     | CHLA-B (F) unc.              |        | 9.56 mg/cuM |
|                     | CHLA-B (F) corr.             |        | 8.04 mg/cuM |
|                     | CHLA-B (F) pheo.             |        | 2.58 mg/cuM |
|                     | CHLA-C (F) unc.              |        | 8.39 mg/cuM |
|                     | CHLA-C (F) corr.             |        | 7.26 mg/cuM |
|                     | CHLA-C (F) pheo.             |        | 1.91 mg/cuM |
|                     | CHLA-A (S)                   |        | 9.32 mg/cuM |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-B (S)                   |        | 3.92 mg/cuM |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-C (S)                   |        | 2.29 mg/cuM |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM   |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM   |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM   |

Sample#: 2680      Sample Date      03/12/99  
 Station: 104      Station Desc:

| Group               | Analysis                     | Result | Units       |
|---------------------|------------------------------|--------|-------------|
| Acid Base           |                              |        |             |
|                     | ALKALINITY-CaCO <sub>3</sub> | 98.9   | mg/L        |
| Minerals            |                              |        |             |
|                     | CHLORIDE                     | 12950. | mg/L        |
| Esthetic Properties |                              |        |             |
|                     | COLOR (Color Units)          | 28.    | Co-Pt       |
|                     | TURBIDITY                    | 8.4    | NTU         |
| Nutrients           |                              |        |             |
|                     | TOT. NITRATE+NITRITE         | <      | 0.002 mg/L  |
|                     | AMMONIA/AMMONIUM-NITROGEN    |        | 0.018 mg/L  |
|                     | TOT.KJEL.N                   |        | 0.854 mg/L  |
|                     | ORTHOPHOSPHATE P04-P         |        | 0.132 mg/L  |
|                     | TOTAL PHOSPHORUS             |        | 0.277 mg/L  |
|                     | SILICA-Si                    |        | 0.106 mg/L  |
|                     | INORGANIC CARBON             |        | 17.4 mg/L   |
|                     | TOT. ORGANIC CARBON          |        | 13.9 mg/L   |
|                     | DISS. ORGANIC CARBON         |        | 13.6 mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    |        | 0.1 mg/L    |
| Trace Metals        |                              |        |             |
|                     | IRON                         | 0.156  | mg/L        |
| Extractables        |                              |        |             |
|                     | CHLA-A (F) unc.              |        | 13.2 mg/cuM |
|                     | CHLA-A (F) corr.             |        | 11.5 mg/cuM |
|                     | CHLA-A (F) pheo.             |        | 2.92 mg/cuM |
|                     | CHLA-B (F) unc.              |        | 7.78 mg/cuM |
|                     | CHLA-B (F) corr.             |        | 6.22 mg/cuM |
|                     | CHLA-B (F) pheo.             |        | 2.65 mg/cuM |
|                     | CHLA-C (F) unc.              |        | 8.3 mg/cuM  |
|                     | CHLA-C (F) corr.             |        | 6.75 mg/cuM |
|                     | CHLA-C (F) pheo.             |        | 2.61 mg/cuM |
|                     | CHLA-A (S)                   |        | 8. mg/cuM   |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-B (S)                   |        | 2.57 mg/cuM |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-C (S)                   | <      | 1. mg/cuM   |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM   |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM   |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM   |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM   |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM   |

Sample#: 3752      Sample Date      04/14/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 98.1   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 66.6   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 45.    | Co-Pt     |
|                     | TURBIDITY                    | 2.1    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.056  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.018  | mg/L      |
|                     | TOT.KJEL.N                   | 0.742  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.797  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.828  | mg/L      |
|                     | SILICA-Si                    | 0.969  | mg/L      |
|                     | INORGANIC CARBON             | 19.2   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 10.6   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 11.2   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.787  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.076  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 9.17   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 7.8    | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 2.32   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 8.74   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 7.41   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 2.24   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 8.88   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 7.62   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 2.13   | mg/cuM    |
|                     | CHLA-A (S)                   | 8.1    | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 8.59   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 7.47   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 6.48   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 6.48   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 4.96   | mg/cuM    |

Sample#: 3753      Sample Date: 04/14/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 82.8   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 3797.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 55.    | Co-Pt  |
|                     | TURBIDITY                    | 2.3    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.004  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.046  | mg/L   |
|                     | TOT.KJEL.N                   | 0.833  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.562  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.645  | mg/L   |
|                     | SILICA-Si                    | 1.15   | mg/L   |
|                     | INORGANIC CARBON             | 16.1   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 11.7   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 11.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.548  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.135  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 11.6   | mg/cuM |
|                     | CHLA-A (F) corr.             | 10.8   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.34   | mg/cuM |
|                     | CHLA-B (F) unc.              | 11.4   | mg/cuM |
|                     | CHLA-B (F) corr.             | 10.6   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.44   | mg/cuM |
|                     | CHLA-C (F) unc.              | 6.42   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.41   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.7    | mg/cuM |
|                     | CHLA-A (S)                   | 9.26   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.7    | mg/cuM |
|                     | CHLA-B (S)                   | 10.1   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 2.17   | mg/cuM |
|                     | CHLA-C (S)                   | 4.53   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 6.87   | mg/cuM |
|                     | CHLA-B (S) corr.             | 8.01   | mg/cuM |
|                     | CHLA-C (S) corr.             | 3.05   | mg/cuM |

Sample#: 3754      Sample Date      04/13/99  
 Station: 103

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 93.9   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 8424.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 60.    | Co-Pt     |
|                     | TURBIDITY                    | 1.7    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.004  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.018  | mg/L      |
|                     | TOT.KJEL.N                   | 0.902  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.38   | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.465  | mg/L      |
|                     | SILICA-Si                    | 1.16   | mg/L      |
|                     | INORGANIC CARBON             | 18.1   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 11.2   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 11.1   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.376  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.219  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 12.    | mg/cuM    |
|                     | CHLA-A (F) corr.             | 11.3   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 1.23   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 9.16   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 8.81   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.587  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 5.17   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 4.6    | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.965  | mg/cuM    |
|                     | CHLA-A (S)                   | 6.11   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | 1.65   | mg/cuM    |
|                     | CHLA-B (S)                   | 8.38   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | 1.84   | mg/cuM    |
|                     | CHLA-C (S)                   | 5.43   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 4.81   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 5.87   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 3.74   | mg/cuM    |

Sample#: 3755      Sample Date      04/13/99  
 Station: 104

| Group               | Analysis                     | Result | Units        |
|---------------------|------------------------------|--------|--------------|
| Acid Base           |                              |        |              |
|                     | ALKALINITY-CaCO <sub>3</sub> | 104.   | mg/L         |
| Minerals            |                              |        |              |
|                     | CHLORIDE                     | 14586. | mg/L         |
| Esthetic Properties |                              |        |              |
|                     | COLOR (Color Units)          | 60.    | Co-Pt        |
|                     | TURBIDITY                    | 3.6    | NTU          |
| Nutrients           |                              |        |              |
|                     | TOT. NITRATE+NITRITE         | <      | 0.002 mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    |        | 0.019 mg/L   |
|                     | TOT.KJEL.N                   |        | 0.895 mg/L   |
|                     | ORTHOPHOSPHATE P04-P         |        | 0.2 mg/L     |
|                     | TOTAL PHOSPHORUS             |        | 0.287 mg/L   |
|                     | SILICA-Si                    |        | 0.698 mg/L   |
|                     | INORGANIC CARBON             |        | 19.8 mg/L    |
|                     | TOT. ORGANIC CARBON          |        | 9.14 mg/L    |
|                     | DISS. ORGANIC CARBON         |        | 9.06 mg/L    |
|                     | ORTHOPHOSPHATE (Filtered)    |        | 0.191 mg/L   |
| Trace Metals        |                              |        |              |
|                     | IRON                         |        | 0.375 mg/L   |
| Extractables        |                              |        |              |
|                     | CHLA-A (F) unc.              |        | 12.3 mg/cuM  |
|                     | CHLA-A (F) corr.             |        | 12. mg/cuM   |
|                     | CHLA-A (F) pheo.             |        | 0.583 mg/cuM |
|                     | CHLA-B (F) unc.              |        | 12.1 mg/cuM  |
|                     | CHLA-B (F) corr.             |        | 11.8 mg/cuM  |
|                     | CHLA-B (F) pheo.             |        | 0.515 mg/cuM |
|                     | CHLA-C (F) unc.              |        | 9.64 mg/cuM  |
|                     | CHLA-C (F) corr.             |        | 9.2 mg/cuM   |
|                     | CHLA-C (F) pheo.             |        | 0.734 mg/cuM |
|                     | CHLA-A (S)                   |        | 11. mg/cuM   |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-A (S)                   |        | 2.56 mg/cuM  |
|                     | CHLA-B (S)                   |        | 9.1 mg/cuM   |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-B (S)                   |        | 1.77 mg/cuM  |
|                     | CHLA-C (S)                   |        | 8.06 mg/cuM  |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM    |
|                     | CHLA-A (S) corr.             |        | 8.74 mg/cuM  |
|                     | CHLA-B (S) corr.             |        | 7.28 mg/cuM  |
|                     | CHLA-C (S) corr.             |        | 5.83 mg/cuM  |



Sample#: 5552      Sample Date      05/11/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 77.    | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 112.   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 55.    | Co-Pt     |
|                     | TURBIDITY                    | 3.3    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.521  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.06   | mg/L      |
|                     | TOT.KJEL.N                   | 0.972  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.598  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.697  | mg/L      |
|                     | SILICA-Si                    | 1.69   | mg/L      |
|                     | INORGANIC CARBON             | 14.3   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 12.9   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 13.    | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.577  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.069  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 6.95   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 4.72   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 3.77   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 5.99   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 4.33   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 2.8    | mg/cuM    |
|                     | CHLA-C (F) unc.              | 5.1    | mg/cuM    |
|                     | CHLA-C (F) corr.             | 3.68   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 2.41   | mg/cuM    |
|                     | CHLA-A (S)                   | 4.71   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 5.14   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 4.23   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 2.85   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 2.49   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 1.78   | mg/cuM    |

Sample#: 5553      Sample Date      05/11/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 82.6   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 4080.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 65.    | Co-Pt  |
|                     | TURBIDITY                    | 2.     | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.13   | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.028  | mg/L   |
|                     | TOT.KJEL.N                   | 0.895  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.601  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.693  | mg/L   |
|                     | SILICA-Si                    | 1.67   | mg/L   |
|                     | INORGANIC CARBON             | 14.4   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 13.6   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 13.6   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.593  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.08   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 14.2   | mg/cuM |
|                     | CHLA-A (F) corr.             | 13.3   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.56   | mg/cuM |
|                     | CHLA-B (F) unc.              | 12.2   | mg/cuM |
|                     | CHLA-B (F) corr.             | 11.5   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.1    | mg/cuM |
|                     | CHLA-C (F) unc.              | 9.66   | mg/cuM |
|                     | CHLA-C (F) corr.             | 8.76   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.53   | mg/cuM |
|                     | CHLA-A (S)                   | 11.7   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.74   | mg/cuM |
|                     | CHLA-B (S)                   | 10.6   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.87   | mg/cuM |
|                     | CHLA-C (S)                   | 8.49   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 1.28   | mg/cuM |
|                     | CHLA-A (S) corr.             | 9.26   | mg/cuM |
|                     | CHLA-B (S) corr.             | 7.83   | mg/cuM |
|                     | CHLA-C (S) corr.             | 5.34   | mg/cuM |

Sample#: 5554      Sample Date      05/10/99  
 Station: 103

| Group               | Analysis                     | Result | Units        |
|---------------------|------------------------------|--------|--------------|
| Acid Base           |                              |        |              |
|                     | ALKALINITY-CaCO <sub>3</sub> | 92.7   | mg/L         |
| Minerals            |                              |        |              |
|                     | CHLORIDE                     | 7210.  | mg/L         |
| Esthetic Properties |                              |        |              |
|                     | COLOR (Color Units)          | 55.    | Co-Pt        |
|                     | TURBIDITY                    | 1.8    | NTU          |
| Nutrients           |                              |        |              |
|                     | TOT. NITRATE+NITRITE         | <      | 0.002 mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    |        | 0.013 mg/L   |
|                     | TOT.KJEL.N                   |        | 0.832 mg/L   |
|                     | ORTHOPHOSPHATE P04-P         |        | 0.484 mg/L   |
|                     | TOTAL PHOSPHORUS             |        | 0.566 mg/L   |
|                     | SILICA-Si                    |        | 1.18 mg/L    |
|                     | INORGANIC CARBON             |        | 15.9 mg/L    |
|                     | TOT. ORGANIC CARBON          |        | 13.3 mg/L    |
|                     | DISS. ORGANIC CARBON         |        | 12.9 mg/L    |
|                     | ORTHOPHOSPHATE (Filtered)    |        | 0.469 mg/L   |
| Trace Metals        |                              |        |              |
|                     | IRON                         |        | 0.151 mg/L   |
| Extractables        |                              |        |              |
|                     | CHLA-A (F) unc.              |        | 10.6 mg/cuM  |
|                     | CHLA-A (F) corr.             |        | 9.98 mg/cuM  |
|                     | CHLA-A (F) pheo.             |        | 0.988 mg/cuM |
|                     | CHLA-B (F) unc.              |        | 9.94 mg/cuM  |
|                     | CHLA-B (F) corr.             |        | 9.2 mg/cuM   |
|                     | CHLA-B (F) pheo.             |        | 1.25 mg/cuM  |
|                     | CHLA-C (F) unc.              |        | 8.37 mg/cuM  |
|                     | CHLA-C (F) corr.             |        | 7.5 mg/cuM   |
|                     | CHLA-C (F) pheo.             |        | 1.47 mg/cuM  |
|                     | CHLA-A (S)                   |        | 9.65 mg/cuM  |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM    |
|                     | CHLA-B (S)                   |        | 8.38 mg/cuM  |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-B (S)                   |        | 1.35 mg/cuM  |
|                     | CHLA-C (S)                   |        | 7.21 mg/cuM  |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-C (S)                   |        | 1.3 mg/cuM   |
|                     | CHLA-A (S) corr.             |        | 7.68 mg/cuM  |
|                     | CHLA-B (S) corr.             |        | 6.01 mg/cuM  |
|                     | CHLA-C (S) corr.             |        | 4.34 mg/cuM  |

Sample#: 5555      Sample Date      05/10/99  
 Station: 104

| Group               | Analysis                     | Result | Units        |
|---------------------|------------------------------|--------|--------------|
| Acid Base           |                              |        |              |
|                     | ALKALINITY-CaCO <sub>3</sub> | 104.   | mg/L         |
| Minerals            |                              |        |              |
|                     | CHLORIDE                     | 13000. | mg/L         |
| Esthetic Properties |                              |        |              |
|                     | COLOR (Color Units)          | 37.    | Co-Pt        |
|                     | TURBIDITY                    | 1.7    | NTU          |
| Nutrients           |                              |        |              |
|                     | TOT. NITRATE+NITRITE         | <      | 0.002 mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    |        | 0.016 mg/L   |
|                     | TOT.KJEL.N                   |        | 0.816 mg/L   |
|                     | ORTHOPHOSPHATE P04-P         |        | 0.263 mg/L   |
|                     | TOTAL PHOSPHORUS             |        | 0.33 mg/L    |
|                     | SILICA-Si                    |        | 0.401 mg/L   |
|                     | INORGANIC CARBON             |        | 19.6 mg/L    |
|                     | TOT. ORGANIC CARBON          |        | 11.9 mg/L    |
|                     | DISS. ORGANIC CARBON         |        | 12. mg/L     |
|                     | ORTHOPHOSPHATE (Filtered)    |        | 0.247 mg/L   |
| Trace Metals        |                              |        |              |
|                     | IRON                         |        | 0.205 mg/L   |
| Extractables        |                              |        |              |
|                     | CHLA-A (F) unc.              |        | 11.2 mg/cuM  |
|                     | CHLA-A (F) corr.             |        | 11.3 mg/cuM  |
|                     | CHLA-A (F) pheo.             | <      | 0.25 mg/cuM  |
|                     | CHLA-B (F) unc.              |        | 6.87 mg/cuM  |
|                     | CHLA-B (F) corr.             |        | 6.75 mg/cuM  |
|                     | CHLA-B (F) pheo.             | <      | 0.25 mg/cuM  |
|                     | CHLA-C (F) unc.              |        | 6.44 mg/cuM  |
|                     | CHLA-C (F) corr.             |        | 6.22 mg/cuM  |
|                     | CHLA-C (F) pheo.             |        | 0.382 mg/cuM |
|                     | CHLA-A (S)                   |        | 10.7 mg/cuM  |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-A (S)                   |        | 1.53 mg/cuM  |
|                     | CHLA-B (S)                   |        | 8.65 mg/cuM  |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-B (S)                   |        | 1.72 mg/cuM  |
|                     | CHLA-C (S)                   |        | 7.28 mg/cuM  |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM    |
|                     | CHLC-C (S)                   |        | 1.17 mg/cuM  |
|                     | CHLA-A (S) corr.             |        | 9.35 mg/cuM  |
|                     | CHLA-B (S) corr.             |        | 7.48 mg/cuM  |
|                     | CHLA-C (S) corr.             |        | 6.14 mg/cuM  |

Sample#: 6646      Sample Date      06/22/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 38.9   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 48.2   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 249.   | Co-Pt     |
|                     | TURBIDITY                    | 2.2    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 1.19   | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.086  | mg/L      |
|                     | TOT.KJEL.N                   | 1.7    | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.491  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.585  | mg/L      |
|                     | SILICA-Si                    | 3.4    | mg/L      |
|                     | INORGANIC CARBON             | 8.43   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 26.2   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 25.8   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.479  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.366  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 1.01   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 0.598  | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.701  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 0.988  | mg/cuM    |
|                     | CHLA-B (F) corr.             | 0.628  | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.61   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 0.793  | mg/cuM    |
|                     | CHLA-C (F) corr.             | 0.418  | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.633  | mg/cuM    |
|                     | CHLA-A (S)                   | <      | 1. mg/cuM |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | <      | 1. mg/cuM |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | <      | 1. mg/cuM |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 6647      Sample Date      06/22/99  
 Station: 102

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 56.3   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 3500.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 174.   | Co-Pt     |
|                     | TURBIDITY                    | 1.9    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.565  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.149  | mg/L      |
|                     | TOT.KJEL.N                   | 1.21   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.354  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.418  | mg/L      |
|                     | SILICA-Si                    | 2.51   | mg/L      |
|                     | INORGANIC CARBON             | 12.1   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 19.2   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 19.    | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.347  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.25   | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 4.78   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 4.48   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.507  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 4.72   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 4.39   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.556  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 4.25   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 3.88   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.61   | mg/cuM    |
|                     | CHLA-A (S)                   | 4.86   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 4.83   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 4.86   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 2.97   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 4.15   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 2.97   | mg/cuM    |

Sample#: 6648      Sample Date      06/23/99  
 Station: 103

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 73.5   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 7060.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 137.   | Co-Pt     |
|                     | TURBIDITY                    | 1.75   | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.342  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.13   | mg/L      |
|                     | TOT.KJEL.N                   | 1.07   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.269  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.325  | mg/L      |
|                     | SILICA-Si                    | 2.24   | mg/L      |
|                     | INORGANIC CARBON             | 15.2   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 17.5   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 16.8   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.256  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.174  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 7.52   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 7.29   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.379  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 6.84   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 6.6    | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.406  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 6.05   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 5.77   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.48   | mg/cuM    |
|                     | CHLA-A (S)                   | 6.11   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 6.08   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 5.71   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 4.45   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 4.45   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 4.45   | mg/cuM    |

Sample#: 6649      Sample Date      06/23/99  
 Station: 104

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 88.    | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 13400. | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 77.    | Co-Pt     |
|                     | TURBIDITY                    | 1.3    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.18   | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.057  | mg/L      |
|                     | TOT.KJEL.N                   | 0.728  | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.181  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.236  | mg/L      |
|                     | SILICA-Si                    | 1.41   | mg/L      |
|                     | INORGANIC CARBON             | 17.9   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 12.8   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 12.8   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.156  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.173  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 8.74   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 8.58   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.269  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 6.73   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 6.51   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.372  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 5.71   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 5.56   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 0.256  | mg/cuM    |
|                     | CHLA-A (S)                   | 4.9    | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 5.87   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 4.73   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 3.81   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 4.58   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 3.05   | mg/cuM    |



Sample#: 8427      Sample Date      07/12/99  
 Station: 101

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 46.3   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 24.7   | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 316.   | Co-Pt  |
|                     | TURBIDITY                    | 3.8    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.434  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.073  | mg/L   |
|                     | TOT.KJEL.N                   | 1.68   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.721  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.803  | mg/L   |
|                     | SILICA-Si                    | 3.85   | mg/L   |
|                     | INORGANIC CARBON             | 6.8    | mg/L   |
|                     | TOT. ORGANIC CARBON          | 35.6   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 34.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.688  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.663  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 29.    | mg/cuM |
|                     | CHLA-A (F) corr.             | 29.2   | mg/cuM |
|                     | CHLA-A (F) pheo.             | < 0.25 | mg/cuM |
|                     | CHLA-B (F) unc.              | 19.1   | mg/cuM |
|                     | CHLA-B (F) corr.             | 18.9   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 0.314  | mg/cuM |
|                     | CHLA-C (F) unc.              | 15.4   | mg/cuM |
|                     | CHLA-C (F) corr.             | 15.    | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.668  | mg/cuM |
|                     | CHLA-A (S)                   | 3.49   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | < 1.   | mg/cuM |
|                     | CHLA-B (S)                   | 3.73   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 2.28   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 1.46   | mg/cuM |
|                     | CHLA-B (S) corr.             | 1.94   | mg/cuM |
|                     | CHLA-C (S) corr.             | < 1.   | mg/cuM |

Sample#: 8428      Sample Date      07/12/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 65.    | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 2780.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 235.   | Co-Pt  |
|                     | TURBIDITY                    | 2.4    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.152  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.078  | mg/L   |
|                     | TOT.KJEL.N                   | 1.69   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.475  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.577  | mg/L   |
|                     | SILICA-Si                    | 3.16   | mg/L   |
|                     | INORGANIC CARBON             | 10.5   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 29.1   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 27.9   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.457  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.441  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 4.99   | mg/cuM |
|                     | CHLA-A (F) corr.             | 3.85   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.92   | mg/cuM |
|                     | CHLA-B (F) unc.              | 5.15   | mg/cuM |
|                     | CHLA-B (F) corr.             | 4.12   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.73   | mg/cuM |
|                     | CHLA-C (F) unc.              | 4.51   | mg/cuM |
|                     | CHLA-C (F) corr.             | 3.59   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.57   | mg/cuM |
|                     | CHLA-A (S)                   | 18.    | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 2.51   | mg/cuM |
|                     | CHLA-B (S)                   | 8.54   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 5.8    | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 15.5   | mg/cuM |
|                     | CHLA-B (S) corr.             | 6.31   | mg/cuM |
|                     | CHLA-C (S) corr.             | 3.88   | mg/cuM |

Sample#: 8429      Sample Date      07/13/99  
 Station: 103

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 77.3   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 7380.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 131.   | Co-Pt     |
|                     | TURBIDITY                    | 4.4    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.004  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | <      | 0.01 mg/L |
|                     | TOT.KJEL.N                   | 1.42   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.265  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.38   | mg/L      |
|                     | SILICA-Si                    | 0.61   | mg/L      |
|                     | INORGANIC CARBON             | 12.8   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 22.8   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 20.3   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.264  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.189  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 69.6   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 69.2   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 0.695  | mg/cuM    |
|                     | CHLA-B (F) unc.              | 29.2   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 28.6   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.1    | mg/cuM    |
|                     | CHLA-C (F) unc.              | 22.7   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 22.1   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.08   | mg/cuM    |
|                     | CHLA-A (S)                   | 21.1   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | 2.92   | mg/cuM    |
|                     | CHLA-B (S)                   | 11.4   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | 1.49   | mg/cuM    |
|                     | CHLA-C (S)                   | 7.98   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 14.7   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 7.12   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 4.45   | mg/cuM    |

Sample#: 8430      Sample Date      07/13/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 96.6   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 12600. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 48.    | Co-Pt  |
|                     | TURBIDITY                    | 6.8    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.004  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.038  | mg/L   |
|                     | TOT.KJEL.N                   | 0.99   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.105  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.097  | mg/L   |
|                     | SILICA-Si                    | 0.65   | mg/L   |
|                     | INORGANIC CARBON             | 15.    | mg/L   |
|                     | TOT. ORGANIC CARBON          | 14.2   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 13.9   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.081  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.18   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 17.3   | mg/cuM |
|                     | CHLA-A (F) corr.             | 16.5   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.27   | mg/cuM |
|                     | CHLA-B (F) unc.              | 11.    | mg/cuM |
|                     | CHLA-B (F) corr.             | 10.    | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.62   | mg/cuM |
|                     | CHLA-C (F) unc.              | 7.19   | mg/cuM |
|                     | CHLA-C (F) corr.             | 6.33   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.44   | mg/cuM |
|                     | CHLA-A (S)                   | 17.4   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 2.93   | mg/cuM |
|                     | CHLA-B (S)                   | 6.62   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 4.33   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 12.8   | mg/cuM |
|                     | CHLA-B (S) corr.             | 3.47   | mg/cuM |
|                     | CHLA-C (S) corr.             | 2.67   | mg/cuM |

Sample#: 9702      Sample Date      08/17/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 54.8   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 72.5   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 260.   | Co-Pt     |
|                     | TURBIDITY                    | 4.6    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.123  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | <      | 0.01 mg/L |
|                     | TOT.KJEL.N                   | 1.35   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.578  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.68   | mg/L      |
|                     | SILICA-Si                    | 2.77   | mg/L      |
|                     | INORGANIC CARBON             | 9.56   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 26.7   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 25.3   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.57   | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.341  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 42.9   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 42.1   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 1.25   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 39.    | mg/cuM    |
|                     | CHLA-B (F) corr.             | 38.5   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 0.817  | mg/cuM    |
|                     | CHLA-C (F) unc.              | 10.7   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 8.89   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 3.05   | mg/cuM    |
|                     | CHLA-A (S)                   | 42.2   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | 3.57   | mg/cuM    |
|                     | CHLA-B (S)                   | 28.    | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | 2.83   | mg/cuM    |
|                     | CHLA-C (S)                   | 7.5    | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 37.4   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 23.5   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 5.34   | mg/cuM    |

Sample#: 9703      Sample Date      08/17/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 76.7   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 4400.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 160.   | Co-Pt  |
|                     | TURBIDITY                    | 1.7    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.095  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.086  | mg/L   |
|                     | TOT.KJEL.N                   | 1.18   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.387  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.427  | mg/L   |
|                     | SILICA-Si                    | 2.78   | mg/L   |
|                     | INORGANIC CARBON             | 13.9   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 18.9   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 18.7   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.369  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.2    | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 7.63   | mg/cuM |
|                     | CHLA-A (F) corr.             | 6.75   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.47   | mg/cuM |
|                     | CHLA-B (F) unc.              | 9.58   | mg/cuM |
|                     | CHLA-B (F) corr.             | 8.87   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.19   | mg/cuM |
|                     | CHLA-C (F) unc.              | 6.23   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.47   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.29   | mg/cuM |
|                     | CHLA-A (S)                   | 5.96   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | < 1.   | mg/cuM |
|                     | CHLA-B (S)                   | 6.97   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 5.45   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 4.15   | mg/cuM |
|                     | CHLA-B (S) corr.             | 5.34   | mg/cuM |
|                     | CHLA-C (S) corr.             | 3.56   | mg/cuM |

Sample#: 9704      Sample Date      08/18/99  
 Station: 103

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 87.    | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 8090.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 110.   | Co-Pt     |
|                     | TURBIDITY                    | 1.3    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.05   | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.14   | mg/L      |
|                     | TOT.KJEL.N                   | 1.08   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.281  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.313  | mg/L      |
|                     | SILICA-Si                    | 2.45   | mg/L      |
|                     | INORGANIC CARBON             | 15.6   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 14.8   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 14.6   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.275  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.155  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 4.28   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 3.5    | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 1.33   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 3.75   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 2.96   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.33   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 3.44   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 2.69   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.27   | mg/cuM    |
|                     | CHLA-A (S)                   | 3.72   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 4.65   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 3.02   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | 2.25   | mg/cuM    |
|                     | CHLA-B (S) corr.             | 2.53   | mg/cuM    |
|                     | CHLA-C (S) corr.             | 1.12   | mg/cuM    |

Sample#: 9705      Sample Date      08/18/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 97.    | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 12300. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 45.    | Co-Pt  |
|                     | TURBIDITY                    | 2.     | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.006  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.089  | mg/L   |
|                     | TOT.KJEL.N                   | 0.897  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.131  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.171  | mg/L   |
|                     | SILICA-Si                    | 1.71   | mg/L   |
|                     | INORGANIC CARBON             | 17.9   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 10.3   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 10.    | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.131  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.179  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 9.21   | mg/cuM |
|                     | CHLA-A (F) corr.             | 9.08   | mg/cuM |
|                     | CHLA-A (F) pheo.             | < 0.25 | mg/cuM |
|                     | CHLA-B (F) unc.              | 4.36   | mg/cuM |
|                     | CHLA-B (F) corr.             | 3.88   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 0.796  | mg/cuM |
|                     | CHLA-C (F) unc.              | 3.57   | mg/cuM |
|                     | CHLA-C (F) corr.             | 3.08   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 0.84   | mg/cuM |
|                     | CHLA-A (S)                   | 7.16   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.67   | mg/cuM |
|                     | CHLA-B (S)                   | 4.89   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 3.29   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 5.07   | mg/cuM |
|                     | CHLA-B (S) corr.             | 3.2    | mg/cuM |
|                     | CHLA-C (S) corr.             | 2.4    | mg/cuM |



Sample#: 11021      Sample Date      09/17/99  
 Station: 101

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 52.7   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 91.7   | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 280.   | Co-Pt  |
|                     | TURBIDITY                    | 3.4    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.286  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.035  | mg/L   |
|                     | TOT.KJEL.N                   | 1.32   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.648  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.778  | mg/L   |
|                     | SILICA-Si                    | 4.19   | mg/L   |
|                     | INORGANIC CARBON             | 6.71   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 31.3   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 30.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.644  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.414  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 15.6   | mg/cuM |
|                     | CHLA-A (F) corr.             | 14.8   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.4    | mg/cuM |
|                     | CHLA-B (F) unc.              | 16.6   | mg/cuM |
|                     | CHLA-B (F) corr.             | 15.9   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.17   | mg/cuM |
|                     | CHLA-C (F) unc.              | 7.25   | mg/cuM |
|                     | CHLA-C (F) corr.             | 6.19   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.79   | mg/cuM |
|                     | CHLA-A (S)                   | 6.01   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | < 1.   | mg/cuM |
|                     | CHLA-B (S)                   | 7.97   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.16   | mg/cuM |
|                     | CHLA-C (S)                   | 4.22   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 4.2    | mg/cuM |
|                     | CHLA-B (S) corr.             | 6.1    | mg/cuM |
|                     | CHLA-C (S) corr.             | 2.67   | mg/cuM |

Sample#: 11022      Sample Date      09/17/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 73.1   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 4450.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 180.   | Co-Pt  |
|                     | TURBIDITY                    | 2.2    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.192  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.038  | mg/L   |
|                     | TOT.KJEL.N                   | 1.14   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.335  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.396  | mg/L   |
|                     | SILICA-Si                    | 3.52   | mg/L   |
|                     | INORGANIC CARBON             | 9.67   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 25.    | mg/L   |
|                     | DISS. ORGANIC CARBON         | 24.6   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.331  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.206  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 9.09   | mg/cuM |
|                     | CHLA-A (F) corr.             | 8.31   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.32   | mg/cuM |
|                     | CHLA-B (F) unc.              | 8.3    | mg/cuM |
|                     | CHLA-B (F) corr.             | 7.41   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.5    | mg/cuM |
|                     | CHLA-C (F) unc.              | 8.11   | mg/cuM |
|                     | CHLA-C (F) corr.             | 7.32   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.34   | mg/cuM |
|                     | CHLA-A (S)                   | 6.52   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | < 1.   | mg/cuM |
|                     | CHLA-B (S)                   | 7.15   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.04   | mg/cuM |
|                     | CHLA-C (S)                   | 6.01   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 1.08   | mg/cuM |
|                     | CHLA-A (S) corr.             | 4.58   | mg/cuM |
|                     | CHLA-B (S) corr.             | 3.43   | mg/cuM |
|                     | CHLA-C (S) corr.             | 4.58   | mg/cuM |

Sample#: 11023      Sample Date      09/13/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 84.2   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 7130.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 140.   | Co-Pt  |
|                     | TURBIDITY                    | 1.04   | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.091  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.205  | mg/L   |
|                     | TOT.KJEL.N                   | 1.26   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.29   | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.36   | mg/L   |
|                     | SILICA-Si                    | 3.16   | mg/L   |
|                     | INORGANIC CARBON             | 11.    | mg/L   |
|                     | TOT. ORGANIC CARBON          | 22.4   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 22.7   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.29   | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.198  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 12.1   | mg/cuM |
|                     | CHLA-A (F) corr.             | 11.9   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 0.405  | mg/cuM |
|                     | CHLA-B (F) unc.              | 7.25   | mg/cuM |
|                     | CHLA-B (F) corr.             | 6.39   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.44   | mg/cuM |
|                     | CHLA-C (F) unc.              | 6.41   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.71   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.18   | mg/cuM |
|                     | CHLA-A (S)                   | 6.83   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.41   | mg/cuM |
|                     | CHLA-B (S)                   | 5.63   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 4.27   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 5.03   | mg/cuM |
|                     | CHLA-B (S) corr.             | 3.77   | mg/cuM |
|                     | CHLA-C (S) corr.             | 2.83   | mg/cuM |

Sample#: 11024      Sample Date      09/13/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 98.    | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 11200. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 70.    | Co-Pt  |
|                     | TURBIDITY                    | 1.28   | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.015  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.146  | mg/L   |
|                     | TOT.KJEL.N                   | 0.97   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.167  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.217  | mg/L   |
|                     | SILICA-Si                    | 2.36   | mg/L   |
|                     | INORGANIC CARBON             | 12.8   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 18.8   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 18.7   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.167  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.205  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 29.7   | mg/cuM |
|                     | CHLA-A (F) corr.             | 29.8   | mg/cuM |
|                     | CHLA-A (F) pheo.             | < 0.25 | mg/cuM |
|                     | CHLA-B (F) unc.              | 17.1   | mg/cuM |
|                     | CHLA-B (F) corr.             | 16.4   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.27   | mg/cuM |
|                     | CHLA-C (F) unc.              | 20.6   | mg/cuM |
|                     | CHLA-C (F) corr.             | 19.8   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.35   | mg/cuM |
|                     | CHLA-A (S)                   | 18.2   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 3.56   | mg/cuM |
|                     | CHLA-B (S)                   | 16.7   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 3.18   | mg/cuM |
|                     | CHLA-C (S)                   | 12.7   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 1.8    | mg/cuM |
|                     | CHLA-A (S) corr.             | 14.8   | mg/cuM |
|                     | CHLA-B (S) corr.             | 12.9   | mg/cuM |
|                     | CHLA-C (S) corr.             | 9.42   | mg/cuM |

Sample#: 12277      Sample Date      10/13/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 36.    | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 23.3   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 320.   | Co-Pt     |
|                     | TURBIDITY                    | 2.     | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.202  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.032  | mg/L      |
|                     | TOT.KJEL.N                   | 1.41   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.655  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.751  | mg/L      |
|                     | SILICA-Si                    | 3.55   | mg/L      |
|                     | INORGANIC CARBON             | 4.52   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 31.7   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 30.1   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.643  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.399  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 1.99   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 1.14   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 1.44   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 1.81   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 1.05   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.28   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 1.76   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 1.02   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.25   | mg/cuM    |
|                     | CHLA-A (S)                   | 2.07   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 1.39   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 1.39   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 12278      Sample Date      10/13/99  
 Station: 102

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 66.2   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 5860.  | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 220.   | Co-Pt     |
|                     | TURBIDITY                    | 1.6    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.166  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.113  | mg/L      |
|                     | TOT.KJEL.N                   | 1.26   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.387  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.45   | mg/L      |
|                     | SILICA-Si                    | 2.92   | mg/L      |
|                     | INORGANIC CARBON             | 14.5   | mg/L      |
|                     | TOT. ORGANIC CARBON          | 20.4   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 19.8   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.386  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.225  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 5.17   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 3.85   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 2.23   | mg/cuM    |
|                     | CHLA-B (F) unc.              | 4.5    | mg/cuM    |
|                     | CHLA-B (F) corr.             | 3.38   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 1.9    | mg/cuM    |
|                     | CHLA-C (F) unc.              | 3.9    | mg/cuM    |
|                     | CHLA-C (F) corr.             | 2.81   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.85   | mg/cuM    |
|                     | CHLA-A (S)                   | 3.22   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 2.75   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 2.27   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 12279      Sample Date      10/12/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 76.2   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 7800.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 150.   | Co-Pt  |
|                     | TURBIDITY                    | 4.3    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.134  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.156  | mg/L   |
|                     | TOT.KJEL.N                   | 1.25   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.313  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.369  | mg/L   |
|                     | SILICA-Si                    | 2.55   | mg/L   |
|                     | INORGANIC CARBON             | 13.1   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 16.7   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 16.6   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.291  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.154  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 26.2   | mg/cuM |
|                     | CHLA-A (F) corr.             | 27.1   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.59   | mg/cuM |
|                     | CHLA-B (F) unc.              | 11.9   | mg/cuM |
|                     | CHLA-B (F) corr.             | 11.2   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.19   | mg/cuM |
|                     | CHLA-C (F) unc.              | 6.29   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.33   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.62   | mg/cuM |
|                     | CHLA-A (S)                   | 30.2   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 8.19   | mg/cuM |
|                     | CHLA-B (S)                   | 11.4   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 3.28   | mg/cuM |
|                     | CHLA-C (S)                   | 3.5    | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 26.7   | mg/cuM |
|                     | CHLA-B (S) corr.             | 7.8    | mg/cuM |
|                     | CHLA-C (S) corr.             | < 1.   | mg/cuM |

Sample#: 12280      Sample Date      10/12/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 95.1   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 12600. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 60.    | Co-Pt  |
|                     | TURBIDITY                    | 1.8    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.034  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.145  | mg/L   |
|                     | TOT.KJEL.N                   | 0.893  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.132  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.177  | mg/L   |
|                     | SILICA-Si                    | 1.87   | mg/L   |
|                     | INORGANIC CARBON             | 22.4   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 10.3   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 9.82   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.129  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.15   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 15.3   | mg/cuM |
|                     | CHLA-A (F) corr.             | 14.6   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.18   | mg/cuM |
|                     | CHLA-B (F) unc.              | 10.7   | mg/cuM |
|                     | CHLA-B (F) corr.             | 9.89   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 1.45   | mg/cuM |
|                     | CHLA-C (F) unc.              | 7.76   | mg/cuM |
|                     | CHLA-C (F) corr.             | 6.93   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.4    | mg/cuM |
|                     | CHLA-A (S)                   | 13.1   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 3.37   | mg/cuM |
|                     | CHLA-B (S)                   | 7.27   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.28   | mg/cuM |
|                     | CHLA-C (S)                   | 4.26   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 9.68   | mg/cuM |
|                     | CHLA-B (S) corr.             | 4.01   | mg/cuM |
|                     | CHLA-C (S) corr.             | 1.     | mg/cuM |



Sample#: 14502      Sample Date      11/10/99  
 Station: 101

| Group               | Analysis                     | Result | Units     |
|---------------------|------------------------------|--------|-----------|
| Acid Base           |                              |        |           |
|                     | ALKALINITY-CaCO <sub>3</sub> | 50.7   | mg/L      |
| Minerals            |                              |        |           |
|                     | CHLORIDE                     | 47.9   | mg/L      |
| Esthetic Properties |                              |        |           |
|                     | COLOR (Color Units)          | 180.   | Co-Pt     |
|                     | TURBIDITY                    | 2.9    | NTU       |
| Nutrients           |                              |        |           |
|                     | TOT. NITRATE+NITRITE         | 0.504  | mg/L      |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.05   | mg/L      |
|                     | TOT.KJEL.N                   | 1.35   | mg/L      |
|                     | ORTHOPHOSPHATE P04-P         | 0.526  | mg/L      |
|                     | TOTAL PHOSPHORUS             | 0.61   | mg/L      |
|                     | SILICA-Si                    | 3.74   | mg/L      |
|                     | INORGANIC CARBON             | 8.     | mg/L      |
|                     | TOT. ORGANIC CARBON          | 25.4   | mg/L      |
|                     | DISS. ORGANIC CARBON         | 25.1   | mg/L      |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.511  | mg/L      |
| Trace Metals        |                              |        |           |
|                     | IRON                         | 0.193  | mg/L      |
| Extractables        |                              |        |           |
|                     | CHLA-A (F) unc.              | 8.38   | mg/cuM    |
|                     | CHLA-A (F) corr.             | 6.84   | mg/cuM    |
|                     | CHLA-A (F) pheo.             | 2.6    | mg/cuM    |
|                     | CHLA-B (F) unc.              | 6.21   | mg/cuM    |
|                     | CHLA-B (F) corr.             | 4.84   | mg/cuM    |
|                     | CHLA-B (F) pheo.             | 2.31   | mg/cuM    |
|                     | CHLA-C (F) unc.              | 4.11   | mg/cuM    |
|                     | CHLA-C (F) corr.             | 2.96   | mg/cuM    |
|                     | CHLA-C (F) pheo.             | 1.95   | mg/cuM    |
|                     | CHLA-A (S)                   | 2.01   | mg/cuM    |
|                     | CHLB-A (S)                   | <      | 1. mg/cuM |
|                     | CHLC-A (S)                   | <      | 1. mg/cuM |
|                     | CHLA-B (S)                   | 3.35   | mg/cuM    |
|                     | CHLB-B (S)                   | <      | 1. mg/cuM |
|                     | CHLC-B (S)                   | <      | 1. mg/cuM |
|                     | CHLA-C (S)                   | 2.01   | mg/cuM    |
|                     | CHLB-C (S)                   | <      | 1. mg/cuM |
|                     | CHLC-C (S)                   | <      | 1. mg/cuM |
|                     | CHLA-A (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-B (S) corr.             | <      | 1. mg/cuM |
|                     | CHLA-C (S) corr.             | <      | 1. mg/cuM |

Sample#: 14503      Sample Date      11/10/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 68.4   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 3600.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 170.   | Co-Pt  |
|                     | TURBIDITY                    | 1.8    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.194  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.036  | mg/L   |
|                     | TOT.KJEL.N                   | 1.43   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.325  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.41   | mg/L   |
|                     | SILICA-Si                    | 2.1    | mg/L   |
|                     | INORGANIC CARBON             | 10.7   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 22.    | mg/L   |
|                     | DISS. ORGANIC CARBON         | 21.    | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.302  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.164  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 50.1   | mg/cuM |
|                     | CHLA-A (F) corr.             | 50.    | mg/cuM |
|                     | CHLA-A (F) pheo.             | < 0.25 | mg/cuM |
|                     | CHLA-B (F) unc.              | 38.6   | mg/cuM |
|                     | CHLA-B (F) corr.             | 37.1   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 2.52   | mg/cuM |
|                     | CHLA-C (F) unc.              | 14.2   | mg/cuM |
|                     | CHLA-C (F) corr.             | 12.4   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 3.07   | mg/cuM |
|                     | CHLA-A (S)                   | 13.7   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 2.92   | mg/cuM |
|                     | CHLA-B (S)                   | 6.62   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.25   | mg/cuM |
|                     | CHLA-C (S)                   | 16.2   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 3.08   | mg/cuM |
|                     | CHLA-A (S) corr.             | 8.54   | mg/cuM |
|                     | CHLA-B (S) corr.             | 2.14   | mg/cuM |
|                     | CHLA-C (S) corr.             | 10.1   | mg/cuM |

Sample#: 14504      Sample Date      11/10/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 81.4   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 7140.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 95.    | Co-Pt  |
|                     | TURBIDITY                    | 1.4    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.019  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.035  | mg/L   |
|                     | TOT.KJEL.N                   | 1.34   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.225  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.341  | mg/L   |
|                     | SILICA-Si                    | 0.942  | mg/L   |
|                     | INORGANIC CARBON             | 12.7   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 19.3   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 17.6   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.186  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.13   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 56.4   | mg/cuM |
|                     | CHLA-A (F) corr.             | 54.8   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 2.73   | mg/cuM |
|                     | CHLA-B (F) unc.              | 40.4   | mg/cuM |
|                     | CHLA-B (F) corr.             | 38.    | mg/cuM |
|                     | CHLA-B (F) pheo.             | 4.07   | mg/cuM |
|                     | CHLA-C (F) unc.              | 11.9   | mg/cuM |
|                     | CHLA-C (F) corr.             | 10.    | mg/cuM |
|                     | CHLA-C (F) pheo.             | 3.19   | mg/cuM |
|                     | CHLA-A (S)                   | 18.    | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 2.96   | mg/cuM |
|                     | CHLA-B (S)                   | 11.8   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.99   | mg/cuM |
|                     | CHLA-C (S)                   | 4.38   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 10.2   | mg/cuM |
|                     | CHLA-B (S) corr.             | 7.28   | mg/cuM |
|                     | CHLA-C (S) corr.             | < 1.   | mg/cuM |

Sample#: 14505      Sample Date      11/10/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 95.1   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 12000. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 37.    | Co-Pt  |
|                     | TURBIDITY                    | 0.9    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.009  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.031  | mg/L   |
|                     | TOT.KJEL.N                   | 0.894  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.11   | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.171  | mg/L   |
|                     | SILICA-Si                    | 0.435  | mg/L   |
|                     | INORGANIC CARBON             | 14.7   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 13.8   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 13.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.093  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.187  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 14.9   | mg/cuM |
|                     | CHLA-A (F) corr.             | 12.    | mg/cuM |
|                     | CHLA-A (F) pheo.             | 4.84   | mg/cuM |
|                     | CHLA-B (F) unc.              | 13.9   | mg/cuM |
|                     | CHLA-B (F) corr.             | 10.6   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 5.61   | mg/cuM |
|                     | CHLA-C (F) unc.              | 11.6   | mg/cuM |
|                     | CHLA-C (F) corr.             | 8.4    | mg/cuM |
|                     | CHLA-C (F) pheo.             | 5.38   | mg/cuM |
|                     | CHLA-A (S)                   | 6.06   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.49   | mg/cuM |
|                     | CHLA-B (S)                   | 5.93   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.29   | mg/cuM |
|                     | CHLA-C (S)                   | 2.42   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 2.14   | mg/cuM |
|                     | CHLA-B (S) corr.             | 2.14   | mg/cuM |
|                     | CHLA-C (S) corr.             | < 1.   | mg/cuM |

Sample#: 15892      Sample Date      12/21/99  
 Station: 101

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 60.2   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 33.1   | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 95.    | Co-Pt  |
|                     | TURBIDITY                    | 3.6    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.972  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.033  | mg/L   |
|                     | TOT.KJEL.N                   | 0.88   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.691  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.775  | mg/L   |
|                     | SILICA-Si                    | 3.18   | mg/L   |
|                     | INORGANIC CARBON             | 8.91   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 18.6   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 18.7   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.695  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.1    | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 6.34   | mg/cuM |
|                     | CHLA-A (F) corr.             | 4.66   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 2.84   | mg/cuM |
|                     | CHLA-B (F) unc.              | 5.08   | mg/cuM |
|                     | CHLA-B (F) corr.             | 3.47   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 2.72   | mg/cuM |
|                     | CHLA-C (F) unc.              | 7.93   | mg/cuM |
|                     | CHLA-C (F) corr.             | 5.98   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 3.3    | mg/cuM |
|                     | CHLA-A (S)                   | 5.23   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | < 1.   | mg/cuM |
|                     | CHLA-B (S)                   | 2.99   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | < 1.   | mg/cuM |
|                     | CHLA-C (S)                   | 2.51   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 3.74   | mg/cuM |
|                     | CHLA-B (S) corr.             | 1.6    | mg/cuM |
|                     | CHLA-C (S) corr.             | 1.07   | mg/cuM |

Sample#: 15893      Sample Date      12/21/99  
 Station: 102

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 79.3   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 2370.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 80.    | Co-Pt  |
|                     | TURBIDITY                    | 3.9    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.476  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.077  | mg/L   |
|                     | TOT.KJEL.N                   | 0.97   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.566  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.647  | mg/L   |
|                     | SILICA-Si                    | 2.72   | mg/L   |
|                     | INORGANIC CARBON             | 10.8   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 18.6   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 17.8   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.566  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.08   | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 13.6   | mg/cuM |
|                     | CHLA-A (F) corr.             | 8.49   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 8.59   | mg/cuM |
|                     | CHLA-B (F) unc.              | 11.7   | mg/cuM |
|                     | CHLA-B (F) corr.             | 7.71   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 6.81   | mg/cuM |
|                     | CHLA-C (F) unc.              | 8.47   | mg/cuM |
|                     | CHLA-C (F) corr.             | 6.22   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 3.81   | mg/cuM |
|                     | CHLA-A (S)                   | 8.89   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.44   | mg/cuM |
|                     | CHLA-B (S)                   | 6.82   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.06   | mg/cuM |
|                     | CHLA-C (S)                   | 5.23   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | < 1.   | mg/cuM |
|                     | CHLA-A (S) corr.             | 5.34   | mg/cuM |
|                     | CHLA-B (S) corr.             | 4.27   | mg/cuM |
|                     | CHLA-C (S) corr.             | 3.2    | mg/cuM |

Sample#: 15894      Sample Date      12/21/99  
 Station: 103

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 90.    | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 6890.  | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 55.    | Co-Pt  |
|                     | TURBIDITY                    | 4.6    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.243  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.116  | mg/L   |
|                     | TOT.KJEL.N                   | 1.03   | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.336  | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.438  | mg/L   |
|                     | SILICA-Si                    | 1.89   | mg/L   |
|                     | INORGANIC CARBON             | 12.8   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 18.2   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 17.4   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.329  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.134  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 10.5   | mg/cuM |
|                     | CHLA-A (F) corr.             | 6.22   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 7.31   | mg/cuM |
|                     | CHLA-B (F) unc.              | 8.53   | mg/cuM |
|                     | CHLA-B (F) corr.             | 6.01   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 4.26   | mg/cuM |
|                     | CHLA-C (F) unc.              | 6.15   | mg/cuM |
|                     | CHLA-C (F) corr.             | 4.42   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 2.92   | mg/cuM |
|                     | CHLA-A (S)                   | 10.7   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 1.7    | mg/cuM |
|                     | CHLA-B (S)                   | 7.97   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.72   | mg/cuM |
|                     | CHLA-C (S)                   | 5.46   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 1.57   | mg/cuM |
|                     | CHLA-A (S) corr.             | 6.94   | mg/cuM |
|                     | CHLA-B (S) corr.             | 5.34   | mg/cuM |
|                     | CHLA-C (S) corr.             | 3.74   | mg/cuM |

Sample#: 15895      Sample Date      12/21/99  
 Station: 104

| Group               | Analysis                     | Result | Units  |
|---------------------|------------------------------|--------|--------|
| Acid Base           |                              |        |        |
|                     | ALKALINITY-CaCO <sub>3</sub> | 95.8   | mg/L   |
| Minerals            |                              |        |        |
|                     | CHLORIDE                     | 10400. | mg/L   |
| Esthetic Properties |                              |        |        |
|                     | COLOR (Color Units)          | 40.    | Co-Pt  |
|                     | TURBIDITY                    | 4.8    | NTU    |
| Nutrients           |                              |        |        |
|                     | TOT. NITRATE+NITRITE         | 0.122  | mg/L   |
|                     | AMMONIA/AMMONIUM-NITROGEN    | 0.088  | mg/L   |
|                     | TOT.KJEL.N                   | 0.797  | mg/L   |
|                     | ORTHOPHOSPHATE P04-P         | 0.22   | mg/L   |
|                     | TOTAL PHOSPHORUS             | 0.29   | mg/L   |
|                     | SILICA-Si                    | 1.05   | mg/L   |
|                     | INORGANIC CARBON             | 13.8   | mg/L   |
|                     | TOT. ORGANIC CARBON          | 16.4   | mg/L   |
|                     | DISS. ORGANIC CARBON         | 15.2   | mg/L   |
|                     | ORTHOPHOSPHATE (Filtered)    | 0.213  | mg/L   |
| Trace Metals        |                              |        |        |
|                     | IRON                         | 0.151  | mg/L   |
| Extractables        |                              |        |        |
|                     | CHLA-A (F) unc.              | 17.1   | mg/cuM |
|                     | CHLA-A (F) corr.             | 16.1   | mg/cuM |
|                     | CHLA-A (F) pheo.             | 1.8    | mg/cuM |
|                     | CHLA-B (F) unc.              | 6.99   | mg/cuM |
|                     | CHLA-B (F) corr.             | 5.35   | mg/cuM |
|                     | CHLA-B (F) pheo.             | 2.77   | mg/cuM |
|                     | CHLA-C (F) unc.              | 5.04   | mg/cuM |
|                     | CHLA-C (F) corr.             | 3.88   | mg/cuM |
|                     | CHLA-C (F) pheo.             | 1.95   | mg/cuM |
|                     | CHLA-A (S)                   | 10.9   | mg/cuM |
|                     | CHLB-A (S)                   | < 1.   | mg/cuM |
|                     | CHLC-A (S)                   | 2.49   | mg/cuM |
|                     | CHLA-B (S)                   | 5.46   | mg/cuM |
|                     | CHLB-B (S)                   | < 1.   | mg/cuM |
|                     | CHLC-B (S)                   | 1.08   | mg/cuM |
|                     | CHLA-C (S)                   | 3.63   | mg/cuM |
|                     | CHLB-C (S)                   | < 1.   | mg/cuM |
|                     | CHLC-C (S)                   | 1.16   | mg/cuM |
|                     | CHLA-A (S) corr.             | 6.41   | mg/cuM |
|                     | CHLA-B (S) corr.             | 3.2    | mg/cuM |
|                     | CHLA-C (S) corr.             | 2.14   | mg/cuM |





**Back to Start**

# **APPENDIX D**

**Summary of Surface Water Chemistry Data  
Collected in Conjunction  
with Primary Production Data**



**Back to Start**

# **APPENDIX E**

**Summary of *In Situ* Hydrolab Data  
Collected in Conjunction  
with Primary Production Data**

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 1     | 101     | 0.0   | 17.0               | 0.4          | 0.0               | 9.2                           | 7.8 | 237                                  |
| 1     | 101     | 0.5   | 17.0               | 0.4          | 0.0               | 9.1                           | 7.7 | 239                                  |
| 1     | 101     | 1.0   | 17.0               | 0.4          | 0.0               | 9.0                           | 7.7 | 241                                  |
| 1     | 101     | 1.2   | 17.0               | 0.4          | 0.0               | 9.0                           | 7.6 | 242                                  |
| 1     | 102     | 0.0   | 17.7               | 9.5          | 5.1               | 9.9                           | 7.7 | 269                                  |
| 1     | 102     | 0.5   | 17.6               | 9.4          | 5.1               | 8.9                           | 7.7 | 270                                  |
| 1     | 102     | 1.0   | 17.6               | 9.8          | 5.3               | 8.9                           | 7.6 | 271                                  |
| 1     | 102     | 1.5   | 17.5               | 11.1         | 6.1               | 8.8                           | 7.6 | 273                                  |
| 1     | 102     | 2.0   | 17.4               | 17.6         | 10.2              | 8.4                           | 7.4 | 275                                  |
| 1     | 102     | 2.2   | 17.2               | 18.0         | 10.4              | 7.5                           | 7.4 | 273                                  |
| 1     | 103     | 0.0   | 17.3               | 19.3         | 11.3              | 8.8                           | 7.7 | 264                                  |
| 1     | 103     | 0.5   | 17.5               | 20.1         | 11.8              | 8.5                           | 7.7 | 265                                  |
| 1     | 103     | 1.0   | 17.5               | 20.7         | 12.2              | 8.4                           | 7.7 | 266                                  |
| 1     | 103     | 1.5   | 17.5               | 21.9         | 13.0              | 8.1                           | 7.6 | 267                                  |
| 1     | 103     | 2.0   | 17.5               | 21.7         | 12.9              | 8.0                           | 7.7 | 267                                  |
| 1     | 104     | 0.0   | 17.0               | 33.4         | 20.9              | 7.6                           | 7.7 | 264                                  |
| 1     | 104     | 0.5   | 17.0               | 33.9         | 21.2              | 7.4                           | 7.7 | 265                                  |
| 1     | 104     | 1.0   | 16.8               | 34.5         | 21.6              | 7.2                           | 7.7 | 266                                  |
| 1     | 104     | 1.5   | 16.7               | 34.9         | 21.9              | 7.1                           | 7.7 | 267                                  |
| 1     | 104     | 1.5   | 16.5               | 36.3         | 22.9              | 6.9                           | 7.7 | 265                                  |
| 1     | 104     | 2.0   | 16.4               | 36.4         | 22.9              | 6.8                           | 7.7 | 255                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 2     | 101     | 0.0   | 23.1               | 0.5          | 0.0               | 5.2                           | 7.4 | 239                                  |
| 2     | 101     | 0.5   | 23.0               | 0.6          | 0.0               | 5.4                           | 7.4 | 241                                  |
| 2     | 101     | 1.0   | 22.9               | 0.6          | 0.0               | 5.4                           | 7.4 | 244                                  |
| 2     | 101     | 1.5   | 22.8               | 0.6          | 0.1               | 5.3                           | 7.3 | 246                                  |
| 2     | 101     | 2.0   | 22.7               | 0.6          | 0.1               | 5.3                           | 7.3 | 249                                  |
| 2     | 101     | 2.2   | 22.7               | 0.7          | 0.1               | 5.2                           | 7.3 | 249                                  |
| 2     | 102     | 0.0   | 23.4               | 10.5         | 5.7               | 6.6                           | 8.0 | 272                                  |
| 2     | 102     | 0.5   | 23.4               | 11.3         | 6.2               | 6.1                           | 7.8 | 274                                  |
| 2     | 102     | 1.0   | 23.2               | 21.9         | 13.0              | 5.5                           | 7.6 | 283                                  |
| 2     | 102     | 1.4   | 24.1               | 22.1         | 13.1              | 4.2                           | 7.6 | 153                                  |
| 2     | 103     | 0.0   | 24.3               | 23.6         | 14.1              | 6.6                           | 8.0 | 249                                  |
| 2     | 103     | 0.5   | 24.3               | 24.4         | 14.7              | 6.9                           | 7.9 | 250                                  |
| 2     | 103     | 1.0   | 24.3               | 26.2         | 15.9              | 6.4                           | 7.9 | 252                                  |
| 2     | 103     | 1.5   | 24.2               | 27.1         | 16.5              | 5.9                           | 7.9 | 253                                  |
| 2     | 103     | 2.0   | 24.1               | 28.1         | 17.2              | 4.1                           | 7.8 | 254                                  |
| 2     | 103     | 2.5   | 24.1               | 28.0         | 17.1              | 3.8                           | 7.8 | 254                                  |
| 2     | 104     | 0.0   | 23.5               | 30.2         | 18.6              | 6.1                           | 7.9 | 236                                  |
| 2     | 104     | 0.5   | 23.5               | 30.4         | 18.8              | 6.2                           | 7.9 | 237                                  |
| 2     | 104     | 1.0   | 23.4               | 31.6         | 19.6              | 5.3                           | 7.9 | 238                                  |
| 2     | 104     | 1.5   | 23.4               | 32.2         | 20.0              | 5.5                           | 7.9 | 239                                  |
| 2     | 104     | 2.0   | 23.3               | 32.8         | 20.4              | 5.6                           | 7.9 | 241                                  |
| 2     | 104     | 2.5   | 23.4               | 34.3         | 21.5              | 5.3                           | 7.9 | 242                                  |
| 2     | 104     | 3.0   | 23.7               | 34.8         | 21.8              | 4.2                           | 7.9 | 243                                  |
| 2     | 104     | 3.5   | 23.7               | 34.5         | 21.6              | 3.7                           | 7.9 | 242                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 3     | 101     | 0.0   | 20.6               | 0.0          | 0.0               | 8.0                           | 7.7 | 320                                  |
| 3     | 101     | 0.5   | 20.7               | 0.5          | 0.0               | 7.8                           | 7.5 | 334                                  |
| 3     | 101     | 1.0   | 20.6               | 0.5          | 0.0               | 7.5                           | 7.5 | 335                                  |
| 3     | 101     | 1.5   | 20.6               | 0.5          | 0.0               | 7.4                           | 7.4 | 340                                  |
| 3     | 101     | 2.0   | 20.6               | 0.5          | 0.0               | 7.4                           | 7.3 | 346                                  |
| 3     | 101     | 2.5   | 20.6               | 0.5          | 0.0               | 7.4                           | 7.3 | 346                                  |
| 3     | 101     | 3.0   | 20.6               | 0.5          | 0.0               | 7.4                           | 7.4 | 344                                  |
| 3     | 102     | 0.0   | 20.6               | 10.8         | 5.9               | 8.9                           | 7.8 | 350                                  |
| 3     | 102     | 0.5   | 20.4               | 12.2         | 6.8               | 8.6                           | 7.8 | 352                                  |
| 3     | 102     | 1.0   | 20.3               | 13.5         | 7.6               | 8.6                           | 7.7 | 354                                  |
| 3     | 102     | 1.5   | 20.4               | 14.9         | 8.5               | 8.6                           | 7.8 | 355                                  |
| 3     | 102     | 2.0   | 21.0               | 15.9         | 9.1               | 8.0                           | 7.8 | 356                                  |
| 3     | 102     | 2.5   | 21.1               | 18.4         | 10.7              | 7.4                           | 7.8 | 357                                  |
| 3     | 102     | 3.0   | 21.2               | 21.0         | 12.4              | 7.1                           | 7.7 | 358                                  |
| 3     | 102     | 3.5   | 21.2               | 21.8         | 12.9              | 7.0                           | 7.0 | 358                                  |
| 3     | 103     | 0.0   | 20.2               | 21.0         | 12.4              | 7.9                           | 8.0 | 241                                  |
| 3     | 103     | 0.5   | 20.3               | 21.3         | 12.6              | 7.9                           | 8.0 | 243                                  |
| 3     | 103     | 1.0   | 20.3               | 21.9         | 13.0              | 7.8                           | 8.0 | 244                                  |
| 3     | 103     | 1.5   | 20.3               | 21.8         | 13.0              | 7.8                           | 8.0 | 245                                  |
| 3     | 103     | 2.0   | 20.3               | 22.1         | 13.1              | 7.7                           | 7.9 | 246                                  |
| 3     | 103     | 2.5   | 20.4               | 22.9         | 13.7              | 7.4                           | 7.9 | 247                                  |
| 3     | 103     | 3.0   | 20.4               | 23.1         | 13.8              | 7.4                           | 7.9 | 249                                  |
| 3     | 103     | 3.5   | 20.5               | 23.8         | 14.3              | 7.2                           | 7.9 | 250                                  |
| 3     | 103     | 4.0   | 20.5               | 24.0         | 14.4              | 7.1                           | 7.9 | 251                                  |
| 3     | 103     | 4.5   | 20.5               | 24.2         | 14.5              | 6.8                           | 7.8 | 252                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 3     | 104     | 0.0   | 20.1               | 33.9         | 21.2              | 7.3                           | 7.9 | 281                                  |
| 3     | 104     | 0.5   | 20.1               | 33.9         | 21.2              | 7.2                           | 7.9 | 282                                  |
| 3     | 104     | 1.0   | 20.1               | 33.9         | 21.2              | 7.1                           | 7.9 | 283                                  |
| 3     | 104     | 1.5   | 20.1               | 33.9         | 21.2              | 7.1                           | 7.9 | 283                                  |
| 3     | 104     | 2.0   | 20.1               | 34.0         | 21.2              | 7.0                           | 7.9 | 284                                  |
| 3     | 104     | 2.5   | 20.1               | 34.0         | 21.2              | 7.0                           | 7.9 | 285                                  |
| 4     | 101     | 0.0   | 27.5               | 0.6          | 0.0               | 7.8                           | 8.4 | 218                                  |
| 4     | 101     | 0.5   | 27.1               | 0.6          | 0.1               | 7.3                           | 8.0 | 237                                  |
| 4     | 101     | 1.0   | 27.0               | 0.6          | 0.1               | 7.2                           | 8.0 | 240                                  |
| 4     | 101     | 1.5   | 27.1               | 0.6          | 0.1               | 7.2                           | 8.0 | 243                                  |
| 4     | 101     | 2.0   | 27.0               | 0.6          | 0.0               | 7.2                           | 7.9 | 245                                  |
| 4     | 101     | 2.5   | 26.9               | 0.6          | 0.1               | 7.1                           | 7.9 | 247                                  |
| 4     | 101     | 3.0   | 26.9               | 0.6          | 0.0               | 7.0                           | 7.9 | 250                                  |
| 4     | 102     | 0.0   | 26.7               | 10.1         | 5.5               | 5.9                           | 8.0 | 227                                  |
| 4     | 102     | 0.5   | 26.7               | 10.2         | 5.6               | 5.8                           | 7.9 | 236                                  |
| 4     | 102     | 1.0   | 26.6               | 10.5         | 5.7               | 5.7                           | 7.8 | 238                                  |
| 4     | 102     | 1.5   | 26.5               | 11.9         | 6.6               | 5.7                           | 7.8 | 242                                  |
| 4     | 102     | 1.8   | 226.5              | 12.0         | 6.7               | 5.4                           | 7.7 | 244                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 4     | 103     | 0.0   | 26.6               | 21.2         | 12.5              | 6.6                           | 8.1 | 260                                  |
| 4     | 103     | 0.5   | 26.7               | 21.2         | 12.5              | 6.2                           | 8.0 | 263                                  |
| 4     | 103     | 1.0   | 26.6               | 21.2         | 12.5              | 6.1                           | 8.0 | 265                                  |
| 4     | 103     | 1.5   | 26.6               | 21.1         | 12.5              | 6.1                           | 8.0 | 268                                  |
| 4     | 104     | 0.0   | 25.8               | 32.5         | 20.2              | 6.7                           | 8.1 | 274                                  |
| 4     | 104     | 0.5   | 25.8               | 32.7         | 20.4              | 6.6                           | 8.1 | 276                                  |
| 4     | 104     | 1.0   | 25.8               | 32.9         | 20.5              | 6.5                           | 8.1 | 277                                  |
| 4     | 104     | 1.5   | 25.8               | 33.4         | 20.9              | 6.3                           | 8.1 | 279                                  |
| 4     | 104     | 2.0   | 25.8               | 33.4         | 20.8              | 6.2                           | 8.1 | 280                                  |
| 4     | 104     | 2.5   | 25.8               | 33.4         | 20.9              | 6.1                           | 8.1 | 281                                  |
| 4     | 104     | 3.0   | 25.8               | 33.4         | 20.9              | 6.1                           | 8.1 | 282                                  |
| 5     | 101     | 0.0   | 27.0               | 0.7          | 0.1               | 6.9                           | 7.9 | 227                                  |
| 5     | 101     | 0.5   | 27.0               | 0.7          | 0.1               | 6.7                           | 7.9 | 233                                  |
| 5     | 101     | 1.0   | 26.9               | 0.7          | 0.1               | 6.7                           | 7.6 | 254                                  |
| 5     | 101     | 1.5   | 27.0               | 0.7          | 0.1               | 6.7                           | 7.6 | 263                                  |
| 5     | 101     | 2.0   | 26.9               | 0.7          | 0.1               | 6.7                           | 7.5 | 284                                  |
| 5     | 101     | 2.5   | 26.9               | 0.7          | 0.1               | 6.6                           | 7.5 | 286                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 5     | 102     | 0.0   | 27.4               | 10.8         | 5.9               | 6.6                           | 7.5 | 247                                  |
| 5     | 102     | 0.5   | 27.4               | 10.8         | 5.9               | 6.5                           | 7.5 | 251                                  |
| 5     | 102     | 1.0   | 27.4               | 10.8         | 5.9               | 6.5                           | 7.5 | 255                                  |
| 5     | 103     | 0.0   | 28.0               | 20.8         | 12.3              | 5.9                           | 7.7 | 297                                  |
| 5     | 103     | 0.5   | 28.0               | 21.2         | 12.5              | 6.0                           | 7.6 | 300                                  |
| 5     | 103     | 1.0   | 27.7               | 21.4         | 12.7              | 5.8                           | 7.6 | 303                                  |
| 5     | 103     | 1.5   | 27.7               | 21.4         | 12.7              | 5.9                           | 7.6 | 306                                  |
| 5     | 103     | 2.0   | 27.5               | 21.6         | 12.8              | 5.7                           | 7.6 | 306                                  |
| 5     | 103     | 2.5   | 27.2               | 21.6         | 12.8              | 5.2                           | 7.6 | 311                                  |
| 5     | 104     | 0.0   | 27.6               | 31.6         | 19.6              | 6.3                           | 7.9 | 281                                  |
| 5     | 104     | 0.5   | 27.6               | 32.9         | 20.5              | 6.1                           | 7.9 | 285                                  |
| 5     | 104     | 1.0   | 27.6               | 33.8         | 21.1              | 6.0                           | 7.9 | 288                                  |
| 5     | 104     | 1.5   | 27.6               | 33.9         | 21.2              | 5.8                           | 7.9 | 291                                  |
| 5     | 104     | 2.0   | 27.5               | 34.4         | 21.6              | 5.5                           | 7.8 | 294                                  |
| 5     | 104     | 2.5   | 27.4               | 34.4         | 21.5              | 5.3                           | 7.8 | 297                                  |
| 5     | 104     | 2.7   | 27.4               | 34.4         | 21.6              | 5.3                           | 7.8 | 300                                  |
| 6     | 101     | 0.0   | 27.3               | 0.4          | 0.0               | 5.0                           | 7.2 | 232                                  |
| 6     | 101     | 0.5   | 27.1               | 0.4          | 0.0               | 4.7                           | 7.1 | 237                                  |
| 6     | 101     | 1.0   | 26.7               | 0.4          | 0.0               | 4.7                           | 7.1 | 241                                  |
| 6     | 101     | 1.3   | 26.7               | 0.4          | 0.0               | 4.5                           | 7.0 | 244                                  |



| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 6     | 102     | 0.0   | 28.7               | 19.1         | 11.1              | 4.8                           | 7.7 | 275                                  |
| 6     | 102     | 0.5   | 28.9               | 35.6         | 22.4              | 4.7                           | 7.7 | 282                                  |
| 6     | 102     | 1.0   | 28.7               | 41.0         | 26.3              | 3.9                           | 7.8 | 283                                  |
| 6     | 102     | 1.5   | 28.8               | 41.1         | 26.3              | 3.7                           | 7.8 | 284                                  |
| 6     | 103     | 0.0   | 29.5               | 32.1         | 19.9              | 5.5                           | 7.7 | 269                                  |
| 6     | 103     | 0.5   | 29.3               | 36.8         | 23.2              | 5.2                           | 7.8 | 277                                  |
| 6     | 103     | 1.0   | 28.9               | 42.3         | 27.2              | 4.6                           | 7.8 | 287                                  |
| 6     | 103     | 1.5   | 28.8               | 42.4         | 27.3              | 4.3                           | 7.8 | 264                                  |
| 6     | 103     | 1.8   | 28.8               | 42.4         | 27.2              | 4.3                           | 7.8 | 224                                  |
| 6     | 104     | 0.0   | 28.6               | 32.0         | 19.8              | 6.3                           | 7.9 | 261                                  |
| 6     | 104     | 0.5   | 28.2               | 35.2         | 22.1              | 6.2                           | 7.9 | 269                                  |
| 6     | 104     | 1.0   | 28.0               | 39.9         | 25.4              | 6.5                           | 8.0 | 275                                  |
| 6     | 104     | 1.5   | 28.1               | 43.9         | 28.3              | 6.3                           | 8.0 | 274                                  |
| 6     | 104     | 2.0   | 28.3               | 44.9         | 29.0              | 5.0                           | 7.9 | 279                                  |
| 6     | 104     | 2.5   | 28.4               | 45.1         | 29.2              | 4.2                           | 7.9 | 282                                  |
| 6     | 104     | 3.0   | 28.4               | 45.2         | 29.2              | 4.1                           | 7.9 | 284                                  |
| 6     | 104     | 3.5   | 28.5               | 45.2         | 29.3              | 4.1                           | 7.9 | 209                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 7     | 101     | 0.0   | 29.7               | 0.3          | 0.0               | 5.4                           | 7.0 | 123                                  |
| 7     | 101     | 0.5   | 28.7               | 0.3          | 0.0               | 5.4                           | 6.9 | 142                                  |
| 7     | 101     | 1.0   | 28.7               | 0.3          | 0.0               | 4.9                           | 6.9 | 151                                  |
| 7     | 101     | 1.5   | 28.7               | 0.3          | 0.0               | 4.8                           | 6.9 | 156                                  |
| 7     | 101     | 2.0   | 28.7               | 0.3          | 0.0               | 4.7                           | 6.9 | 161                                  |
| 7     | 101     | 2.5   | 28.7               | 0.3          | 0.0               | 4.7                           | 6.9 | 166                                  |
| 7     | 101     | 3.0   | 28.7               | 0.3          | 0.0               | 4.7                           | 6.9 | 169                                  |
| 7     | 101     | 3.5   | 28.7               | 0.3          | 0.0               | 4.7                           | 6.9 | 172                                  |
| 7     | 101     | 3.9   | 28.7               | 0.3          | 0.0               | 4.7                           | 6.9 | 176                                  |
| 7     | 102     | 0.0   | 30.7               | 11.2         | 6.1               | 4.7                           | 7.2 | 257                                  |
| 7     | 102     | 0.5   | 31.2               | 13.0         | 7.2               | 5.0                           | 7.2 | 263                                  |
| 7     | 102     | 1.0   | 30.2               | 13.7         | 7.7               | 4.5                           | 7.2 | 266                                  |
| 7     | 102     | 1.5   | 29.9               | 14.1         | 7.9               | 4.3                           | 7.2 | 268                                  |
| 7     | 102     | 2.0   | 29.9               | 15.5         | 8.9               | 4.2                           | 7.2 | 270                                  |
| 7     | 102     | 2.5   | 29.9               | 15.9         | 9.1               | 3.9                           | 7.2 | 271                                  |
| 7     | 102     | 3.0   | 29.9               | 15.9         | 9.1               | 3.9                           | 7.2 | 271                                  |
| 7     | 102     | 3.5   | 29.8               | 16.6         | 9.6               | 3.6                           | 7.2 | 270                                  |
| 7     | 103     | 0.0   | 31.1               | 22.2         | 13.2              | 9.8                           | 8.3 | 164                                  |
| 7     | 103     | 0.5   | 30.7               | 24.9         | 15.0              | 9.9                           | 7.9 | 176                                  |
| 7     | 103     | 1.0   | 29.2               | 27.6         | 16.8              | 5.2                           | 7.8 | 182                                  |
| 7     | 103     | 1.5   | 29.3               | 30.7         | 19.0              | 4.3                           | 7.7 | 188                                  |
| 7     | 103     | 2.0   | 29.5               | 35.1         | 22.1              | 2.0                           | 7.5 | 47                                   |
| 7     | 103     | 2.5   | 29.4               | 36.1         | 22.8              | 0.5                           | 7.5 | -33                                  |
| 7     | 103     | 3.0   | 29.3               | 36.2         | 22.8              | 0.2                           | 7.5 | -70                                  |
| 7     | 103     | 3.5   | 29.3               | 36.2         | 22.8              | 0.2                           | 7.5 | -99                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 7     | 104     | 0.0   | 30.2               | 31.7         | 19.6              | 5.1                           | 7.9 | 174                                  |
| 7     | 104     | 0.5   | 30.2               | 36.2         | 22.8              | 5.2                           | 7.9 | 180                                  |
| 7     | 104     | 1.0   | 30.3               | 38.4         | 24.4              | 4.7                           | 7.9 | 182                                  |
| 7     | 104     | 1.5   | 30.3               | 38.4         | 24.4              | 4.7                           | 7.9 | 184                                  |
| 7     | 104     | 2.0   | 30.3               | 38.5         | 24.4              | 4.6                           | 7.9 | 185                                  |
| 7     | 104     | 2.5   | 30.3               | 38.5         | 24.4              | 4.6                           | 7.9 | 185                                  |
| 7     | 104     | 3.0   | 30.3               | 38.4         | 24.4              | 4.6                           | 7.9 | 185                                  |
| 8     | 101     | 0.0   | 31.0               | 0.4          | 0.0               | 6.0                           | 7.9 | 214                                  |
| 8     | 101     | 0.5   | 30.9               | 0.4          | 0.0               | 5.8                           | 7.7 | 224                                  |
| 8     | 101     | 1.0   | 31.0               | 0.4          | 0.0               | 5.8                           | 7.7 | 231                                  |
| 8     | 101     | 1.5   | 31.0               | 0.4          | 0.0               | 5.8                           | 7.6 | 236                                  |
| 8     | 101     | 2.0   | 31.0               | 0.4          | 0.0               | 5.8                           | 7.5 | 241                                  |
| 8     | 101     | 2.5   | 30.9               | 0.4          | 0.0               | 5.8                           | 7.5 | 229                                  |
| 8     | 102     | 0.0   | 31.1               | 11.9         | 6.6               | 5.2                           | 7.6 | 227                                  |
| 8     | 102     | 0.5   | 31.1               | 12.8         | 7.2               | 5.3                           | 7.5 | 232                                  |
| 8     | 102     | 1.0   | 31.0               | 17.2         | 9.9               | 4.9                           | 7.4 | 237                                  |
| 8     | 102     | 1.5   | 30.9               | 19.3         | 11.3              | 4.5                           | 7.4 | 241                                  |
| 8     | 102     | 2.0   | 30.8               | 19.6         | 11.5              | 4.2                           | 7.4 | 242                                  |
| 8     | 102     | 2.4   | 30.8               | 19.8         | 11.6              | 4.2                           | 7.4 | 244                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 8     | 103     | 0.0   | 29.6               | 21.2         | 12.5              | 5.2                           | 7.7 | 263                                  |
| 8     | 103     | 0.5   | 29.4               | 23.8         | 14.3              | 5.1                           | 7.7 | 267                                  |
| 8     | 103     | 1.0   | 29.4               | 25.5         | 15.4              | 4.9                           | 7.7 | 269                                  |
| 8     | 103     | 1.5   | 29.9               | 28.6         | 17.5              | 4.3                           | 7.8 | 274                                  |
| 8     | 103     | 2.0   | 30.4               | 30.2         | 18.6              | 3.7                           | 7.8 | 276                                  |
| 8     | 103     | 2.5   | 30.6               | 30.9         | 19.1              | 2.4                           | 7.7 | 279                                  |
| 8     | 103     | 3.0   | 30.7               | 30.9         | 19.1              | 2.2                           | 7.7 | 280                                  |
| 8     | 103     | 3.5   | 30.7               | 31.0         | 19.1              | 2.1                           | 7.7 | 282                                  |
| 8     | 104     | 0.0   | 29.9               | 31.8         | 19.7              | 5.4                           | 7.8 | 268                                  |
| 8     | 104     | 0.5   | 29.7               | 31.9         | 19.8              | 5.3                           | 7.9 | 272                                  |
| 8     | 104     | 1.0   | 29.6               | 33.2         | 20.7              | 5.2                           | 7.9 | 276                                  |
| 8     | 104     | 1.5   | 29.9               | 36.7         | 23.2              | 5.0                           | 7.9 | 282                                  |
| 8     | 104     | 2.0   | 30.1               | 38.2         | 24.2              | 4.7                           | 7.9 | 285                                  |
| 9     | 101     | 0.0   | 29.0               | 0.5          | 0.0               | 5.3                           | 7.7 | 229                                  |
| 9     | 101     | 0.5   | 28.9               | 0.4          | 0.0               | 5.2                           | 7.6 | 237                                  |
| 9     | 101     | 1.0   | 28.9               | 0.4          | 0.0               | 5.2                           | 7.6 | 243                                  |
| 9     | 101     | 1.5   | 28.9               | 0.4          | 0.0               | 5.2                           | 7.5 | 252                                  |
| 9     | 101     | 2.0   | 28.9               | 0.4          | 0.0               | 5.2                           | 7.5 | 258                                  |
| 9     | 101     | 2.5   | 28.9               | 0.4          | 0.0               | 5.2                           | 7.5 | 260                                  |
| 9     | 102     | 0.0   | 29.2               | 11.9         | 6.6               | 6.4                           | 7.6 | 237                                  |
| 9     | 102     | 0.5   | 29.2               | 18.6         | 10.8              | 5.8                           | 7.4 | 247                                  |
| 9     | 102     | 1.0   | 29.7               | 22.0         | 13.1              | 4.8                           | 7.4 | 252                                  |
| 9     | 102     | 1.5   | 29.4               | 23.5         | 14.1              | 4.9                           | 7.5 | 254                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 9     | 103     | 0.0   | 29.8               | 19.3         | 11.3              | 5.1                           | 7.5 | 261                                  |
| 9     | 103     | 0.5   | 29.8               | 19.4         | 11.3              | 5.0                           | 7.4 | 264                                  |
| 9     | 103     | 1.0   | 29.8               | 19.4         | 11.4              | 5.0                           | 7.4 | 266                                  |
| 9     | 103     | 1.5   | 29.8               | 19.7         | 11.5              | 4.9                           | 7.4 | 268                                  |
| 9     | 103     | 2.0   | 29.9               | 25.8         | 15.6              | 4.1                           | 7.3 | 248                                  |
| 9     | 103     | 2.3   | 30.1               | 30.4         | 18.7              | 1.9                           | 7.2 | -45                                  |
| 9     | 104     | 0.0   | 29.6               | 29.2         | 17.9              | 5.4                           | 7.5 | 2                                    |
| 9     | 104     | 0.5   | 29.6               | 29.2         | 17.9              | 5.1                           | 7.5 | 2                                    |
| 9     | 104     | 1.0   | 29.6               | 29.2         | 17.9              | 5.1                           | 7.5 | 2                                    |
| 9     | 104     | 1.5   | 29.6               | 29.3         | 18.0              | 5.0                           | 7.5 | 2                                    |
| 9     | 104     | 2.0   | 29.7               | 31.5         | 19.5              | 4.7                           | 7.5 | 2                                    |
| 9     | 104     | 2.5   | 29.9               | 31.5         | 19.5              | 2.5                           | 7.5 | 2                                    |
| 10    | 101     | 0.0   | 26.4               | 0.2          | 0.0               | 5.3                           | 7.8 | 250                                  |
| 10    | 101     | 0.5   | 26.5               | 0.2          | 0.0               | 5.3                           | 7.7 | 252                                  |
| 10    | 101     | 1.0   | 26.3               | 0.2          | 0.0               | 5.2                           | 7.6 | 255                                  |
| 10    | 101     | 1.5   | 26.2               | 0.2          | 0.0               | 5.2                           | 7.6 | 258                                  |
| 10    | 101     | 2.0   | 26.2               | 0.2          | 0.0               | 5.2                           | 7.5 | 260                                  |
| 10    | 101     | 2.5   | 26.1               | 0.2          | 0.0               | 5.1                           | 7.5 | 261                                  |
| 10    | 102     | 0.0   | 27.4               | 11.9         | 6.6               | 8.3                           | 7.8 | 211                                  |
| 10    | 102     | 0.5   | 27.3               | 12.6         | 7.0               | 5.7                           | 7.7 | 218                                  |
| 10    | 102     | 1.0   | 27.3               | 13.3         | 7.4               | 5.5                           | 7.6 | 222                                  |
| 10    | 102     | 1.5   | 27.2               | 15.3         | 8.7               | 5.1                           | 7.5 | 227                                  |
| 10    | 102     | 1.8   | 27.2               | 26.2         | 15.9              | 4.5                           | 7.3 | 237                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 10    | 103     | 0.0   | 27.3               | 18.2         | 10.6              | 6.2                           | 7.3 | 230                                  |
| 10    | 103     | 0.5   | 27.2               | 19.5         | 11.4              | 6.2                           | 7.3 | 235                                  |
| 10    | 103     | 1.0   | 27.0               | 22.6         | 13.5              | 5.4                           | 7.2 | 242                                  |
| 10    | 103     | 1.5   | 26.9               | 22.6         | 13.5              | 5.2                           | 7.2 | 245                                  |
| 10    | 103     | 2.0   | 27.1               | 26.4         | 16.0              | 4.4                           | 7.2 | 251                                  |
| 10    | 103     | 2.5   | 27.3               | 30.9         | 19.1              | 3.2                           | 7.3 | 255                                  |
| 10    | 103     | 3.0   | 27.6               | 31.3         | 19.4              | 2.8                           | 7.3 | 228                                  |
| 10    | 104     | 0.0   | 27.6               | 29.9         | 18.4              | 5.5                           | 7.4 | 205                                  |
| 10    | 104     | 0.5   | 27.6               | 29.9         | 18.4              | 5.4                           | 7.4 | 211                                  |
| 10    | 104     | 1.0   | 27.6               | 29.8         | 18.4              | 5.3                           | 7.4 | 216                                  |
| 10    | 104     | 1.5   | 27.6               | 29.8         | 18.3              | 5.3                           | 7.4 | 220                                  |
| 10    | 104     | 2.0   | 27.5               | 29.9         | 18.4              | 5.2                           | 7.4 | 223                                  |
| 10    | 104     | 2.5   | 27.4               | 30.0         | 18.5              | 4.9                           | 7.4 | 226                                  |
| 10    | 104     | 3.0   | 27.3               | 32.0         | 19.9              | 4.4                           | 7.5 | 229                                  |
| 11    | 101     | 0.0   | 21.6               | 0.4          | 0.0               | 7.1                           | 8.0 | 245                                  |
| 11    | 101     | 0.5   | 21.6               | 0.4          | 0.0               | 6.9                           | 7.9 | 249                                  |
| 11    | 101     | 1.0   | 21.6               | 0.4          | 0.0               | 6.9                           | 7.8 | 253                                  |
| 11    | 101     | 1.5   | 21.6               | 0.4          | 0.0               | 6.9                           | 7.8 | 258                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 11    | 102     | 0.0   | 21.8               | 11.2         | 6.2               | 8.2                           | 8.1 | 218                                  |
| 11    | 102     | 0.5   | 21.8               | 11.1         | 6.1               | 8.2                           | 8.1 | 221                                  |
| 11    | 102     | 1.0   | 21.8               | 12.6         | 7.0               | 8.2                           | 8.1 | 225                                  |
| 11    | 102     | 1.5   | 21.7               | 14.0         | 7.9               | 8.1                           | 8.1 | 229                                  |
| 11    | 102     | 2.0   | 21.6               | 15.3         | 8.7               | 7.9                           | 8.1 | 232                                  |
| 11    | 102     | 2.5   | 21.5               | 16.8         | 9.7               | 7.9                           | 8.1 | 236                                  |
| 11    | 102     | 3.0   | 21.5               | 19.3         | 11.3              | 7.8                           | 8.0 | 239                                  |
| 11    | 103     | 0.0   | 21.6               | 19.7         | 11.6              | 8.4                           | 8.4 | 275                                  |
| 11    | 103     | 0.5   | 21.6               | 20.9         | 12.3              | 8.4                           | 8.3 | 277                                  |
| 11    | 103     | 1.0   | 21.5               | 31.4         | 19.4              | 7.6                           | 8.2 | 285                                  |
| 11    | 103     | 1.5   | 21.4               | 31.8         | 19.7              | 6.2                           | 8.2 | 285                                  |
| 11    | 104     | 0.0   | 21.3               | 32.4         | 20.2              | 7.5                           | 8.2 | 297                                  |
| 11    | 104     | 0.5   | 21.3               | 32.5         | 20.2              | 7.5                           | 8.2 | 297                                  |
| 11    | 104     | 1.0   | 21.2               | 34.6         | 21.7              | 7.4                           | 8.2 | 299                                  |
| 11    | 104     | 1.5   | 21.2               | 35.2         | 22.1              | 7.3                           | 8.2 | 300                                  |
| 11    | 104     | 2.0   | 21.2               | 35.1         | 22.1              | 7.3                           | 8.2 | 300                                  |
| 11    | 104     | 2.5   | 21.3               | 36.7         | 23.2              | 7.2                           | 8.2 | 301                                  |
| 11    | 104     | 3.0   | 21.2               | 36.9         | 23.3              | 7.1                           | 8.2 | 301                                  |
| 12    | 101     | 0.0   | 19.4               | 0.6          | 0.1               | 7.2                           | 8.1 | 251                                  |
| 12    | 101     | 0.5   | 19.5               | 0.6          | 0.1               | 7.3                           | 8.1 | 253                                  |
| 12    | 101     | 1.0   | 19.4               | 0.6          | 0.1               | 7.3                           | 8.1 | 255                                  |
| 12    | 101     | 1.5   | 19.4               | 0.6          | 0.1               | 7.2                           | 8.1 | 256                                  |

| Month | STATION | DEPTH | Temperature<br>(C) | Conductivity | Salinity<br>(ppt) | Dissolved<br>Oxygen<br>(mg/l) | pH  | Oxidation/<br>Reduction<br>Potential |
|-------|---------|-------|--------------------|--------------|-------------------|-------------------------------|-----|--------------------------------------|
| 12    | 102     | 0.0   | 20.8               | 9.4          | 5.1               | 6.2                           | 7.7 | 268                                  |
| 12    | 102     | 0.5   | 20.8               | 9.7          | 5.2               | 6.2                           | 7.7 | 269                                  |
| 12    | 102     | 1.0   | 20.7               | 10.5         | 5.7               | 6.1                           | 7.7 | 271                                  |
| 12    | 102     | 1.5   | 20.6               | 10.2         | 5.5               | 6.1                           | 7.7 | 270                                  |
| 12    | 103     | 0.0   | 20.3               | 22.4         | 13.3              | 6.4                           | 7.8 | 266                                  |
| 12    | 103     | 0.5   | 20.4               | 22.1         | 13.1              | 6.2                           | 7.8 | 266                                  |
| 12    | 103     | 1.0   | 20.3               | 22.7         | 13.5              | 6.1                           | 7.7 | 267                                  |
| 12    | 103     | 1.5   | 20.3               | 22.8         | 13.6              | 6.1                           | 7.7 | 267                                  |
| 12    | 103     | 2.0   | 20.3               | 22.7         | 13.5              | 6.0                           | 7.7 | 267                                  |
| 12    | 104     | 0.0   | 20.3               | 34.7         | 21.8              | 6.3                           | 7.8 | 265                                  |
| 12    | 104     | 0.5   | 20.3               | 36.2         | 22.8              | 6.2                           | 7.8 | 266                                  |
| 12    | 104     | 1.0   | 20.3               | 36.0         | 22.7              | 6.1                           | 7.8 | 266                                  |
| 12    | 104     | 1.5   | 20.3               | 35.5         | 22.3              | 6.1                           | 7.8 | 266                                  |





**Back to Start**

# **APPENDIX E**

**Summary of *In Situ* Hydrolab Data  
Collected in Conjunction  
with Primary Production Data**



**Back to Start**

# **APPENDIX F**

**Summary of In Situ Physical Water  
Chemistry Fixed Station Water Column Data  
Collected by USGS**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 1999 |      |                                        |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                             |                                                                             |
| 19...    | 1500 | 25.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 1130                                                         | .30                                      | 2320                                                                         | 7.8                                            | 7.9                                                         | 1.85                                                                        |
| 19...    | 1501 | 25.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | .50                                      | --                                                                           | 7.8                                            | 7.9                                                         | --                                                                          |
| 19...    | 1502 | 25.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 1.0                                      | --                                                                           | 7.7                                            | 7.9                                                         | --                                                                          |
| 19...    | 1503 | 25.1                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 1.5                                      | --                                                                           | 7.6                                            | 7.9                                                         | --                                                                          |
| 19...    | 1504 | 25.1                                   | 1028                                                               | 1028                                                              | 8.1                                                                        | 1140                                                         | 1.7                                      | --                                                                           | 7.6                                            | 7.9                                                         | --                                                                          |
| 20...    | 1141 | 24.9                                   | 1028                                                               | 1028                                                              | --                                                                         | 1040                                                         | .30                                      | --                                                                           | 7.0                                            | 7.9                                                         | 2.65                                                                        |
| 20...    | 1142 | 24.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 1100                                                         | .50                                      | --                                                                           | 7.0                                            | 7.8                                                         | --                                                                          |
| 20...    | 1143 | 23.9                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 1.0                                      | --                                                                           | 6.8                                            | 7.8                                                         | --                                                                          |
| 20...    | 1144 | 23.6                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 1.5                                      | --                                                                           | 6.7                                            | 7.8                                                         | --                                                                          |
| 20...    | 1145 | 23.4                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 2.0                                      | --                                                                           | 6.5                                            | 7.7                                                         | --                                                                          |
| 20...    | 1146 | 23.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 1140                                                         | 2.5                                      | --                                                                           | 6.4                                            | 7.7                                                         | --                                                                          |
| MAY      |      |                                        |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                             |                                                                             |
| 25...    | 1518 | 29.0                                   | 1028                                                               | 1028                                                              | --                                                                         | 748                                                          | .30                                      | 2280                                                                         | 5.6                                            | 7.5                                                         | 2.55                                                                        |
| 25...    | 1519 | 29.0                                   | 1028                                                               | 1028                                                              | --                                                                         | 747                                                          | .50                                      | --                                                                           | 5.5                                            | 7.4                                                         | --                                                                          |
| 25...    | 1520 | 29.0                                   | 1028                                                               | 1028                                                              | --                                                                         | 750                                                          | 1.0                                      | --                                                                           | 5.5                                            | 7.4                                                         | --                                                                          |
| 25...    | 1521 | 28.9                                   | 1028                                                               | 1028                                                              | --                                                                         | 747                                                          | 1.5                                      | --                                                                           | 5.4                                            | 7.4                                                         | --                                                                          |
| 25...    | 1522 | 28.7                                   | 1028                                                               | 1028                                                              | --                                                                         | 750                                                          | 2.0                                      | --                                                                           | 5.2                                            | 7.4                                                         | --                                                                          |
| 25...    | 1523 | 28.4                                   | 1028                                                               | 1028                                                              | 2.7                                                                        | 754                                                          | 2.4                                      | --                                                                           | 5.1                                            | 7.4                                                         | --                                                                          |
| 26...    | 1136 | 28.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 786                                                          | .30                                      | --                                                                           | 4.9                                            | 7.3                                                         | 1.85                                                                        |
| 26...    | 1137 | 28.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 785                                                          | .50                                      | --                                                                           | 4.9                                            | 7.3                                                         | --                                                                          |
| 26...    | 1138 | 28.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 787                                                          | 1.0                                      | --                                                                           | 4.9                                            | 7.3                                                         | --                                                                          |
| 26...    | 1139 | 28.2                                   | 1028                                                               | 1028                                                              | --                                                                         | 787                                                          | 1.5                                      | --                                                                           | 4.8                                            | 7.3                                                         | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1520 | 27.9                                            | 1028                                                               | 1028                                                              | 454                                                          | .30                                      | 1340                                                                         | 3.7                                            | 7.1                                                                  | 2.05                                                                        | 1.0                                                                     |
| 22...    | 1521 | 27.9                                            | 1028                                                               | 1028                                                              | 457                                                          | .50                                      | --                                                                           | 3.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1522 | 27.9                                            | 1028                                                               | 1028                                                              | 450                                                          | 1.0                                      | --                                                                           | 3.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1523 | 27.9                                            | 1028                                                               | 1028                                                              | 448                                                          | 1.5                                      | --                                                                           | 3.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1524 | 27.9                                            | 1028                                                               | 1028                                                              | 463                                                          | 1.9                                      | --                                                                           | 3.5                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1117 | 27.6                                            | 1028                                                               | 1028                                                              | 431                                                          | .30                                      | --                                                                           | 5.2                                            | 7.1                                                                  | 3.15                                                                        | --                                                                      |
| 23...    | 1118 | 27.6                                            | 1028                                                               | 1028                                                              | 427                                                          | .50                                      | --                                                                           | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1119 | 27.2                                            | 1028                                                               | 1028                                                              | 429                                                          | 1.0                                      | --                                                                           | 5.1                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1120 | 27.1                                            | 1028                                                               | 1028                                                              | 422                                                          | 1.5                                      | --                                                                           | 5.1                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1121 | 27.1                                            | 1028                                                               | 1028                                                              | 424                                                          | 2.0                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1122 | 27.1                                            | 1028                                                               | 1028                                                              | 418                                                          | 2.5                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1123 | 27.1                                            | 1028                                                               | 1028                                                              | 426                                                          | 3.0                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 27...    | 1454 | 32.1                                            | 1028                                                               | 1028                                                              | 308                                                          | .30                                      | 2410                                                                         | 5.3                                            | 7.7                                                                  | 2.65                                                                        | .75                                                                     |
| 27...    | 1455 | 31.5                                            | 1028                                                               | 1028                                                              | 309                                                          | .50                                      | --                                                                           | 5.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 1456 | 30.3                                            | 1028                                                               | 1028                                                              | 307                                                          | 1.0                                      | --                                                                           | 5.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 27...    | 1457 | 29.8                                            | 1028                                                               | 1028                                                              | 302                                                          | 1.5                                      | --                                                                           | 5.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1458 | 29.8                                            | 1028                                                               | 1028                                                              | 310                                                          | 2.0                                      | --                                                                           | 5.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1459 | 29.8                                            | 1028                                                               | 1028                                                              | 309                                                          | 2.5                                      | --                                                                           | 5.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 1129 | 30.4                                            | 1028                                                               | 1028                                                              | 319                                                          | .30                                      | --                                                                           | 5.2                                            | 7.7                                                                  | 1.25                                                                        | --                                                                      |
| 28...    | 1130 | 30.3                                            | 1028                                                               | 1028                                                              | 334                                                          | .50                                      | --                                                                           | 5.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 28...    | 1131 | 30.1                                            | 1028                                                               | 1028                                                              | 323                                                          | 1.0                                      | --                                                                           | 5.2                                            | 7.6                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| AUG 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 23...    | 1501 | 28.0                                            | 1028                                                               | 1028                                                              | 298                                                          | .30                                      | 2320                                                                         | 6.1                                            | 7.1                                                                  | 3.15                                                                        | .90                                                                     |
| 23...    | 1502 | 28.0                                            | 1028                                                               | 1028                                                              | 299                                                          | .50                                      | --                                                                           | 6.0                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1503 | 28.0                                            | 1028                                                               | 1028                                                              | 300                                                          | 1.0                                      | --                                                                           | 6.0                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1504 | 27.9                                            | 1028                                                               | 1028                                                              | 300                                                          | 1.5                                      | --                                                                           | 5.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1505 | 27.8                                            | 1028                                                               | 1028                                                              | 300                                                          | 2.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1506 | 27.8                                            | 1028                                                               | 1028                                                              | 300                                                          | 2.5                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1507 | 27.8                                            | 1028                                                               | 1028                                                              | 300                                                          | 3.0                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1113 | 28.4                                            | 1028                                                               | 1028                                                              | 276                                                          | .30                                      | --                                                                           | 5.9                                            | 7.1                                                                  | 2.65                                                                        | --                                                                      |
| 24...    | 1114 | 27.5                                            | 1028                                                               | 1028                                                              | 280                                                          | .50                                      | --                                                                           | 5.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1115 | 27.3                                            | 1028                                                               | 1028                                                              | 271                                                          | 1.0                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1116 | 27.3                                            | 1028                                                               | 1028                                                              | 274                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1117 | 27.3                                            | 1028                                                               | 1028                                                              | 279                                                          | 2.0                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1118 | 27.3                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.5                                      | --                                                                           | 5.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 23...    | 1434 | 26                                              | 1028                                                               | 1028                                                              | 285                                                          | .30                                      | 1280                                                                         | 5.9                                            | 7.2                                                                  | 2.25                                                                        | .80                                                                     |
| 23...    | 1435 | 26.4                                            | 1028                                                               | 1028                                                              | 275                                                          | .50                                      | --                                                                           | 5.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1436 | 26.4                                            | 1028                                                               | 1028                                                              | 293                                                          | 1.0                                      | --                                                                           | 5.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1437 | 26.4                                            | 1028                                                               | 1028                                                              | 281                                                          | 1.5                                      | --                                                                           | 5.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1438 | 26.4                                            | 1028                                                               | 1028                                                              | 285                                                          | 2.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...    | 1143 | 25.6                                            | 1028                                                               | 1028                                                              | 278                                                          | .30                                      | --                                                                           | 5.7                                            | 7.1                                                                  | 1.75                                                                        | --                                                                      |
| 24...    | 1144 | 25.6                                            | 1028                                                               | 1028                                                              | 278                                                          | .50                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...    | 1145 | 25.5                                            | 1028                                                               | 1028                                                              | 285                                                          | 1.0                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...    | 1146 | 25.5                                            | 1028                                                               | 1028                                                              | 282                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 19...    | 1524 | 25.9                                            | 1028                                                               | 1028                                                              | 238                                                          | .30                                      | 2240                                                                         | 5.9                                            | 7.1                                                                  | 2.05                                                                        | --                                                                      |
| 19...    | 1525 | 25.9                                            | 1028                                                               | 1028                                                              | 237                                                          | .50                                      | --                                                                           | 5.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1526 | 25.9                                            | 1028                                                               | 1028                                                              | 245                                                          | 1.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1527 | 25.9                                            | 1028                                                               | 1028                                                              | 245                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1528 | 25.9                                            | 1028                                                               | 1028                                                              | 248                                                          | 2.0                                      | --                                                                           | 5.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 20...    | 1238 | 25.9                                            | 1028                                                               | 1028                                                              | 242                                                          | .30                                      | --                                                                           | 5.8                                            | 7.0                                                                  | 1.85                                                                        | --                                                                      |
| 20...    | 1239 | 25.9                                            | 1028                                                               | 1028                                                              | 258                                                          | .50                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1240 | 25.6                                            | 1028                                                               | 1028                                                              | 255                                                          | 1.0                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1241 | 25.6                                            | 1028                                                               | 1028                                                              | 256                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| NOV 1999 |      |                                                 |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 16...    | 1452 | 21.8                                            | 1028                                                                | 1028                                                               | 354                                                             | .30                                       | 1340                                                               | 7.2                                             | 7.9                                                                   | 2.55                                                                        | .95                                                                     |
| 16...    | 1453 | 21.8                                            | 1028                                                                | 1028                                                               | 353                                                             | .50                                       | --                                                                 | 7.1                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 1454 | 21.8                                            | 1028                                                                | 1028                                                               | 354                                                             | 1.0                                       | --                                                                 | 7.0                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 16...    | 1455 | 21.8                                            | 1028                                                                | 1028                                                               | 354                                                             | 1.5                                       | --                                                                 | 7.0                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 16...    | 1456 | 21.8                                            | 1028                                                                | 1028                                                               | 354                                                             | 2.0                                       | --                                                                 | 7.0                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 16...    | 1457 | 21.8                                            | 1028                                                                | 1028                                                               | 354                                                             | 2.4                                       | --                                                                 | 6.9                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 17...    | 1301 | 21.3                                            | 1028                                                                | 1028                                                               | 350                                                             | .30                                       | --                                                                 | 6.9                                             | 7.4                                                                   | 3.15                                                                        | --                                                                      |
| 17...    | 1302 | 21.1                                            | 1028                                                                | 1028                                                               | 356                                                             | .50                                       | --                                                                 | 6.8                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 17...    | 1303 | 20.8                                            | 1028                                                                | 1028                                                               | 354                                                             | 1.0                                       | --                                                                 | 7.0                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 17...    | 1304 | 20.5                                            | 1028                                                                | 1028                                                               | 359                                                             | 1.5                                       | --                                                                 | 7.0                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 17...    | 1305 | 20.5                                            | 1028                                                                | 1028                                                               | 361                                                             | 2.0                                       | --                                                                 | 7.1                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 17...    | 1306 | 20.5                                            | 1028                                                                | 1028                                                               | 365                                                             | 2.5                                       | --                                                                 | 7.1                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 17...    | 1307 | 20.4                                            | 1028                                                                | 1028                                                               | 365                                                             | 3.0                                       | --                                                                 | 7.1                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| DEC      |      |                                                 |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 20...    | 1452 | 20.5                                            | 1028                                                                | 1028                                                               | 554                                                             | .30                                       | 1800                                                               | 8.4                                             | 8.3                                                                   | 3.35                                                                        | 2.2                                                                     |
| 20...    | 1453 | 20.5                                            | 1028                                                                | 1028                                                               | 545                                                             | .50                                       | --                                                                 | 8.2                                             | 8.2                                                                   | --                                                                          | --                                                                      |
| 20...    | 1454 | 20.2                                            | 1028                                                                | 1028                                                               | 545                                                             | 1.0                                       | --                                                                 | 8.1                                             | 8.2                                                                   | --                                                                          | --                                                                      |
| 20...    | 1456 | 19.6                                            | 1028                                                                | 1028                                                               | 554                                                             | 1.5                                       | --                                                                 | 7.9                                             | 8.2                                                                   | --                                                                          | --                                                                      |
| 20...    | 1457 | 19.4                                            | 1028                                                                | 1028                                                               | 557                                                             | 2.0                                       | --                                                                 | 7.9                                             | 8.1                                                                   | --                                                                          | --                                                                      |
| 20...    | 1458 | 19.2                                            | 1028                                                                | 1028                                                               | 558                                                             | 2.5                                       | --                                                                 | 7.8                                             | 8.1                                                                   | --                                                                          | --                                                                      |
| 20...    | 1459 | 19.2                                            | 1028                                                                | 1028                                                               | 549                                                             | 3.2                                       | --                                                                 | 7.7                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 21...    | 1333 | 20.2                                            | 1028                                                                | 1028                                                               | 464                                                             | .30                                       | --                                                                 | 7.6                                             | 7.6                                                                   | 3.25                                                                        | --                                                                      |
| 21...    | 1334 | 20.2                                            | 1028                                                                | 1028                                                               | 472                                                             | .50                                       | --                                                                 | 7.5                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 21...    | 1335 | 20.0                                            | 1028                                                                | 1028                                                               | 473                                                             | 1.0                                       | --                                                                 | 7.5                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 21...    | 1336 | 19.9                                            | 1028                                                                | 1028                                                               | 473                                                             | 1.5                                       | --                                                                 | 7.4                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 21...    | 1337 | 19.5                                            | 1028                                                                | 1028                                                               | 474                                                             | 2.0                                       | --                                                                 | 7.4                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 21...    | 1338 | 19.4                                            | 1028                                                                | 1028                                                               | 466                                                             | 2.5                                       | --                                                                 | 7.4                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 21...    | 1339 | 19.4                                            | 1028                                                                | 1028                                                               | 467                                                             | 3.0                                       | --                                                                 | 7.3                                             | 7.6                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297350 - PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1250 | 24.6                                            | 1028                                                               | 1028                                                              | 276                                                          | .30                                      | 5.7                                            | 7.3                                                                  | 3.45                                                                        |
| 29...    | 1251 | 24.6                                            | 1028                                                               | 1028                                                              | 279                                                          | .50                                      | 5.8                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1252 | 24.5                                            | 1028                                                               | 1028                                                              | 273                                                          | 1.0                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1253 | 24.5                                            | 1028                                                               | 1028                                                              | 276                                                          | 1.5                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1254 | 24.5                                            | 1028                                                               | 1028                                                              | 277                                                          | 2.0                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1255 | 24.5                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.5                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1256 | 24.5                                            | 1028                                                               | 1028                                                              | 278                                                          | 3.0                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1257 | 24.5                                            | 1028                                                               | 1028                                                              | 275                                                          | 3.3                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1236 | 24.7                                            | 1028                                                               | 1028                                                              | 325                                                          | .30                                      | 6.3                                            | 7.3                                                                  | 3.35                                                                        |
| 18...    | 1237 | 24.5                                            | 1028                                                               | 1028                                                              | 325                                                          | .50                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1238 | 24.0                                            | 1028                                                               | 1028                                                              | 326                                                          | 1.0                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1239 | 23.9                                            | 1028                                                               | 1028                                                              | 326                                                          | 1.5                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1240 | 23.8                                            | 1028                                                               | 1028                                                              | 326                                                          | 2.0                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1241 | 23.8                                            | 1028                                                               | 1028                                                              | 326                                                          | 2.5                                      | 6.1                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1242 | 23.8                                            | 1028                                                               | 1028                                                              | 326                                                          | 3.0                                      | 6.1                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1235 | 21.8                                            | 1028                                                               | 1028                                                              | 593                                                          | .30                                      | 6.4                                            | 7.7                                                                  | 3.15                                                                        |
| 29...    | 1236 | 21.8                                            | 1028                                                               | 1028                                                              | 573                                                          | .50                                      | 6.4                                            | 7.7                                                                  | --                                                                          |
| 29...    | 1237 | 21.8                                            | 1028                                                               | 1028                                                              | 590                                                          | 1.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1238 | 21.7                                            | 1028                                                               | 1028                                                              | 588                                                          | 1.5                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1239 | 21.7                                            | 1028                                                               | 1028                                                              | 593                                                          | 2.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1240 | 21.7                                            | 1028                                                               | 1028                                                              | 583                                                          | 2.5                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1241 | 21.7                                            | 1028                                                               | 1028                                                              | 591                                                          | 3.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1324 | 20.6                                            | 1028                                                               | 1028                                                              | 413                                                          | .30                                      | 6.8                                            | 7.5                                                                  | 3.05                                                                        |
| 26...    | 1325 | 20.5                                            | 1028                                                               | 1028                                                              | 414                                                          | .50                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1326 | 20.3                                            | 1028                                                               | 1028                                                              | 413                                                          | 1.0                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1327 | 20.2                                            | 1028                                                               | 1028                                                              | 407                                                          | 1.5                                      | 6.8                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1328 | 20.2                                            | 1028                                                               | 1028                                                              | 413                                                          | 2.0                                      | 6.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1329 | 20.2                                            | 1028                                                               | 1028                                                              | 410                                                          | 2.5                                      | 6.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1330 | 20.2                                            | 1028                                                               | 1028                                                              | 408                                                          | 3.0                                      | 6.7                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297350 - PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1328 | 20.1                                            | 1028                                                               | 1028                                                              | 426                                                          | .30                                      | 7.4                                            | 7.7                                                                  | 3.35                                                                        |
| 23...    | 1329 | 20.0                                            | 1028                                                               | 1028                                                              | 425                                                          | .50                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1330 | 18.6                                            | 1028                                                               | 1028                                                              | 429                                                          | 1.0                                      | 7.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1331 | 18.4                                            | 1028                                                               | 1028                                                              | 424                                                          | 1.5                                      | 7.2                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1332 | 18.3                                            | 1028                                                               | 1028                                                              | 429                                                          | 2.0                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1333 | 18.2                                            | 1028                                                               | 1028                                                              | 429                                                          | 2.5                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1334 | 18.1                                            | 1028                                                               | 1028                                                              | 425                                                          | 3.0                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1231 | 23.0                                            | 1028                                                               | 1028                                                              | 763                                                          | .30                                      | 6.7                                            | 7.6                                                                  | 3.25                                                                        |
| 23...    | 1232 | 22.9                                            | 1028                                                               | 1028                                                              | 766                                                          | .50                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1233 | 22.9                                            | 1028                                                               | 1028                                                              | 762                                                          | 1.0                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1234 | 22.6                                            | 1028                                                               | 1028                                                              | 799                                                          | 1.5                                      | 6.6                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1235 | 22.5                                            | 1028                                                               | 1028                                                              | 821                                                          | 2.0                                      | 6.6                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1236 | 22.5                                            | 1028                                                               | 1028                                                              | 836                                                          | 2.5                                      | 6.5                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1237 | 22.4                                            | 1028                                                               | 1028                                                              | 806                                                          | 3.0                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1110 | 23.6                                            | 1028                                                               | 1028                                                              | 3400                                                         | .30                                      | 6.4                                            | 7.5                                                                  | 3.15                                                                        |
| 20...    | 1111 | 23.6                                            | 1028                                                               | 1028                                                              | 3430                                                         | .50                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1112 | 23.5                                            | 1028                                                               | 1028                                                              | 3580                                                         | 1.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1113 | 23.2                                            | 1028                                                               | 1028                                                              | 3750                                                         | 1.5                                      | 6.1                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1114 | 23.2                                            | 1028                                                               | 1028                                                              | 3820                                                         | 2.0                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1115 | 23.2                                            | 1028                                                               | 1028                                                              | 3850                                                         | 2.5                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1116 | 23.1                                            | 1028                                                               | 1028                                                              | 3810                                                         | 3.0                                      | 5.9                                            | 7.4                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1116 | 28.5                                            | 1028                                                               | 1028                                                              | 773                                                          | .30                                      | 4.7                                            | 7.3                                                                  | 3.15                                                                        |
| 26...    | 1117 | 28.5                                            | 1028                                                               | 1028                                                              | 771                                                          | .50                                      | 4.7                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1118 | 28.5                                            | 1028                                                               | 1028                                                              | 778                                                          | 1.0                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1119 | 28.5                                            | 1028                                                               | 1028                                                              | 774                                                          | 1.5                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1120 | 28.4                                            | 1028                                                               | 1028                                                              | 783                                                          | 2.0                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1121 | 28.4                                            | 1028                                                               | 1028                                                              | 778                                                          | 2.5                                      | 4.5                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1122 | 28.3                                            | 1028                                                               | 1028                                                              | 784                                                          | 3.0                                      | 4.5                                            | 7.2                                                                  | --                                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297350 - PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1052 | 30.9                                            | 1028                                                               | 1028                                                              | 435                                                          | .30                                      | 4.9                                            | 7.1                                                                  | 3.55                                                                        |
| 23...    | 1053 | 30.1                                            | 1028                                                               | 1028                                                              | 433                                                          | .50                                      | 4.8                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1054 | 27.6                                            | 1028                                                               | 1028                                                              | 432                                                          | 1.0                                      | 4.6                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1055 | 27.1                                            | 1028                                                               | 1028                                                              | 433                                                          | 1.5                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1056 | 26.9                                            | 1028                                                               | 1028                                                              | 435                                                          | 2.0                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1057 | 26.9                                            | 1028                                                               | 1028                                                              | 434                                                          | 2.5                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1058 | 26.8                                            | 1028                                                               | 1028                                                              | 432                                                          | 3.0                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1059 | 26.8                                            | 1028                                                               | 1028                                                              | 435                                                          | 3.4                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1110 | 31.6                                            | 1028                                                               | 1028                                                              | 306                                                          | .30                                      | 4.6                                            | 7.6                                                                  | 4.05                                                                        |
| 28...    | 1111 | 31.3                                            | 1028                                                               | 1028                                                              | 307                                                          | .50                                      | 4.6                                            | 7.6                                                                  | --                                                                          |
| 28...    | 1112 | 30.8                                            | 1028                                                               | 1028                                                              | 319                                                          | 1.0                                      | 4.6                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1113 | 30.7                                            | 1028                                                               | 1028                                                              | 317                                                          | 1.5                                      | 4.6                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1114 | 30.6                                            | 1028                                                               | 1028                                                              | 304                                                          | 2.0                                      | 4.6                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1115 | 30.6                                            | 1028                                                               | 1028                                                              | 303                                                          | 2.5                                      | 4.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1116 | 30.5                                            | 1028                                                               | 1028                                                              | 314                                                          | 3.0                                      | 4.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1117 | 30.5                                            | 1028                                                               | 1028                                                              | 323                                                          | 3.5                                      | 4.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1118 | 30.5                                            | 1028                                                               | 1028                                                              | 303                                                          | 3.9                                      | 4.4                                            | 7.3                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1050 | 27.8                                            | 1028                                                               | 1028                                                              | 285                                                          | .30                                      | 5.3                                            | 7.0                                                                  | 3.95                                                                        |
| 24...    | 1051 | 27.8                                            | 1028                                                               | 1028                                                              | 285                                                          | .50                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1052 | 27.2                                            | 1028                                                               | 1028                                                              | 289                                                          | 1.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1053 | 27.2                                            | 1028                                                               | 1028                                                              | 283                                                          | 1.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1054 | 27.2                                            | 1028                                                               | 1028                                                              | 283                                                          | 2.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1055 | 27.1                                            | 1028                                                               | 1028                                                              | 290                                                          | 2.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1056 | 27.1                                            | 1028                                                               | 1028                                                              | 292                                                          | 3.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1057 | 27.1                                            | 1028                                                               | 1028                                                              | 282                                                          | 3.5                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1058 | 27.1                                            | 1028                                                               | 1028                                                              | 287                                                          | 3.8                                      | 5.2                                            | 7.0                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297350 - PEACE RIVER NR PEACE RIVER HEIGHTS NR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| SEP 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1125 | 25.7                                            | 1028                                                               | 1028                                                              | 280                                                          | .30                                      | 5.3                                            | 7.1                                                                  | 3.55                                                                        |
| 24...    | 1126 | 25.7                                            | 1028                                                               | 1028                                                              | 280                                                          | .50                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1127 | 25.7                                            | 1028                                                               | 1028                                                              | 278                                                          | 1.0                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1128 | 25.7                                            | 1028                                                               | 1028                                                              | 281                                                          | 1.5                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1129 | 25.6                                            | 1028                                                               | 1028                                                              | 280                                                          | 2.0                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1130 | 25.6                                            | 1028                                                               | 1028                                                              | 281                                                          | 2.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1131 | 25.6                                            | 1028                                                               | 1028                                                              | 283                                                          | 3.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1220 | 28.3                                            | 1028                                                               | 1028                                                              | 249                                                          | .30                                      | 5.6                                            | 7.1                                                                  | 3.65                                                                        |
| 20...    | 1221 | 28.0                                            | 1028                                                               | 1028                                                              | 250                                                          | .50                                      | 5.6                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1222 | 26.1                                            | 1028                                                               | 1028                                                              | 252                                                          | 1.0                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1223 | 25.6                                            | 1028                                                               | 1028                                                              | 251                                                          | 1.5                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1224 | 25.4                                            | 1028                                                               | 1028                                                              | 251                                                          | 2.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1225 | 25.4                                            | 1028                                                               | 1028                                                              | 251                                                          | 2.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1226 | 25.4                                            | 1028                                                               | 1028                                                              | 251                                                          | 3.0                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1227 | 25.4                                            | 1028                                                               | 1028                                                              | 251                                                          | 3.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1240 | 21.6                                            | 1028                                                               | 1028                                                              | 356                                                          | .30                                      | 6.9                                            | 7.4                                                                  | 3.55                                                                        |
| 17...    | 1241 | 21.6                                            | 1028                                                               | 1028                                                              | 356                                                          | .50                                      | 6.8                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1242 | 21.4                                            | 1028                                                               | 1028                                                              | 353                                                          | 1.0                                      | 6.7                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1243 | 21.3                                            | 1028                                                               | 1028                                                              | 355                                                          | 1.5                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1244 | 21.4                                            | 1028                                                               | 1028                                                              | 336                                                          | 2.0                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1245 | 21.1                                            | 1028                                                               | 1028                                                              | 362                                                          | 2.5                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1246 | 21.0                                            | 1028                                                               | 1028                                                              | 359                                                          | 3.0                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1247 | 21.0                                            | 1028                                                               | 1028                                                              | 339                                                          | 3.4                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1253 | 20.3                                            | 1028                                                               | 1028                                                              | 478                                                          | .30                                      | 7.4                                            | 7.6                                                                  | 3.25                                                                        |
| 21...    | 1254 | 20.2                                            | 1028                                                               | 1028                                                              | 478                                                          | .50                                      | 7.4                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1255 | 20.2                                            | 1028                                                               | 1028                                                              | 484                                                          | 1.0                                      | 7.4                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1256 | 20.2                                            | 1028                                                               | 1028                                                              | 478                                                          | 1.5                                      | 7.4                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1257 | 20.1                                            | 1028                                                               | 1028                                                              | 483                                                          | 2.0                                      | 7.4                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1258 | 20.1                                            | 1028                                                               | 1028                                                              | 483                                                          | 2.5                                      | 7.4                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1259 | 20.1                                            | 1028                                                               | 1028                                                              | 479                                                          | 3.0                                      | 7.4                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| OCT 1998 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...    | 1251 | --                                                                           | 25.0                                            | 1028                                                               | 1028                                                              | 4420                                                         | .30                                      | 2770                                                                         | 7.8                                            | 8.1                                                                  | 3.55                                                                        | .90                                                                     |
| 28...    | 1252 | --                                                                           | 24.9                                            | 1028                                                               | 1028                                                              | 4470                                                         | .50                                      | --                                                                           | 7.6                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 1253 | --                                                                           | 24.6                                            | 1028                                                               | 1028                                                              | 4960                                                         | 1.0                                      | --                                                                           | 7.2                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 28...    | 1254 | --                                                                           | 24.6                                            | 1028                                                               | 1028                                                              | 5390                                                         | 1.5                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 28...    | 1255 | --                                                                           | 24.5                                            | 1028                                                               | 1028                                                              | 5660                                                         | 2.0                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 28...    | 1256 | --                                                                           | 24.5                                            | 1028                                                               | 1028                                                              | 6080                                                         | 2.5                                      | --                                                                           | 7.3                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 1257 | --                                                                           | 24.5                                            | 1028                                                               | 1028                                                              | 7700                                                         | 3.0                                      | --                                                                           | 6.9                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1258 | --                                                                           | 24.5                                            | 1028                                                               | 1028                                                              | 10600                                                        | 3.4                                      | --                                                                           | 6.6                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1110 | 50.0                                                                         | 24.8                                            | 1028                                                               | 1028                                                              | 6430                                                         | .30                                      | --                                                                           | 9.1                                            | 8.5                                                                  | 3.45                                                                        | --                                                                      |
| 29...    | 1111 | 50.0                                                                         | 24.5                                            | 1028                                                               | 1028                                                              | 9560                                                         | .50                                      | --                                                                           | 9.0                                            | 8.5                                                                  | --                                                                          | --                                                                      |
| 29...    | 1112 | 50.0                                                                         | 24.5                                            | 1028                                                               | 1028                                                              | 12500                                                        | 1.0                                      | --                                                                           | 8.2                                            | 8.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1113 | 50.0                                                                         | 24.6                                            | 1028                                                               | 1028                                                              | 16000                                                        | 1.5                                      | --                                                                           | 7.6                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1114 | 50.0                                                                         | 24.6                                            | 1028                                                               | 1028                                                              | 17800                                                        | 2.0                                      | --                                                                           | 7.4                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1115 | 50.0                                                                         | 24.5                                            | 1028                                                               | 1028                                                              | 18000                                                        | 2.5                                      | --                                                                           | 7.3                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1116 | 50.0                                                                         | 24.5                                            | 1028                                                               | 1028                                                              | 18700                                                        | 3.0                                      | --                                                                           | 7.0                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1117 | 50.0                                                                         | 24.5                                            | 1028                                                               | 1028                                                              | 19100                                                        | 3.3                                      | --                                                                           | 6.8                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1120 | 650                                                                          | 25.1                                            | 1028                                                               | 1028                                                              | 6680                                                         | .30                                      | --                                                                           | 9.8                                            | 8.6                                                                  | 3.15                                                                        | --                                                                      |
| 29...    | 1121 | 650                                                                          | 25.1                                            | 1028                                                               | 1028                                                              | 6780                                                         | .50                                      | --                                                                           | 9.8                                            | 8.6                                                                  | --                                                                          | --                                                                      |
| 29...    | 1122 | 650                                                                          | 24.5                                            | 1028                                                               | 1028                                                              | 9420                                                         | 1.0                                      | --                                                                           | 8.4                                            | 8.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1123 | 650                                                                          | 24.6                                            | 1028                                                               | 1028                                                              | 15100                                                        | 1.5                                      | --                                                                           | 7.9                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1124 | 650                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 17200                                                        | 2.0                                      | --                                                                           | 7.6                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1125 | 650                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 17900                                                        | 2.5                                      | --                                                                           | 7.3                                            | 8.3                                                                  | --                                                                          | --                                                                      |
| 29...    | 1126 | 650                                                                          | 24.6                                            | 1028                                                               | 1028                                                              | 18900                                                        | 3.0                                      | --                                                                           | 6.8                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1127 | 1250                                                                         | 24.7                                            | 1028                                                               | 1028                                                              | 4080                                                         | .30                                      | --                                                                           | 9.7                                            | 8.6                                                                  | 1.45                                                                        | --                                                                      |
| 29...    | 1128 | 1250                                                                         | 24.7                                            | 1028                                                               | 1028                                                              | 5500                                                         | .50                                      | --                                                                           | 9.4                                            | 8.6                                                                  | --                                                                          | --                                                                      |
| 29...    | 1129 | 1250                                                                         | 24.7                                            | 1028                                                               | 1028                                                              | 6500                                                         | 1.0                                      | --                                                                           | 9.1                                            | 8.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1130 | 1250                                                                         | 24.6                                            | 1028                                                               | 1028                                                              | 8540                                                         | 1.3                                      | --                                                                           | 8.3                                            | 8.4                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(000009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| NOV 1998 |      |                                                                               |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 17...    | 1251 | --                                                                            | 25.5                                            | 1028                                                               | 1028                                                              | 633                                                          | .30                                      | 2900                                                                         | 6.2                                            | 7.0                                                                  | 3.95                                                                        | 1.1                                                                     |
| 17...    | 1252 | --                                                                            | 25.2                                            | 1028                                                               | 1028                                                              | 644                                                          | .50                                      | --                                                                           | 6.1                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1253 | --                                                                            | 25.0                                            | 1028                                                               | 1028                                                              | 757                                                          | 1.0                                      | --                                                                           | 5.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1254 | --                                                                            | 24.8                                            | 1028                                                               | 1028                                                              | 839                                                          | 1.5                                      | --                                                                           | 5.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1255 | --                                                                            | 24.7                                            | 1028                                                               | 1028                                                              | 869                                                          | 2.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1256 | --                                                                            | 24.7                                            | 1028                                                               | 1028                                                              | 858                                                          | 2.5                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1257 | --                                                                            | 24.6                                            | 1028                                                               | 1028                                                              | 868                                                          | 3.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 17...    | 1258 | --                                                                            | 24.6                                            | 1028                                                               | 1028                                                              | 872                                                          | 3.5                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1057 | 50.0                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 414                                                          | .30                                      | --                                                                           | 6.1                                            | 7.3                                                                  | 3.45                                                                        | --                                                                      |
| 18...    | 1058 | 50.0                                                                          | 24.1                                            | 1028                                                               | 1028                                                              | 370                                                          | .50                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1059 | 50.0                                                                          | 23.9                                            | 1028                                                               | 1028                                                              | 357                                                          | 1.0                                      | --                                                                           | 5.4                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1100 | 50.0                                                                          | 23.9                                            | 1028                                                               | 1028                                                              | 353                                                          | 1.5                                      | --                                                                           | 5.3                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1101 | 50.0                                                                          | 23.9                                            | 1028                                                               | 1028                                                              | 356                                                          | 2.0                                      | --                                                                           | 5.3                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1102 | 50.0                                                                          | 23.9                                            | 1028                                                               | 1028                                                              | 351                                                          | 2.5                                      | --                                                                           | 5.3                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1103 | 50.0                                                                          | 23.9                                            | 1028                                                               | 1028                                                              | 352                                                          | 3.0                                      | --                                                                           | 5.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1104 | 650                                                                           | 24.8                                            | 1028                                                               | 1028                                                              | 344                                                          | .30                                      | --                                                                           | 5.5                                            | 7.2                                                                  | 3.05                                                                        | --                                                                      |
| 18...    | 1105 | 650                                                                           | 24.6                                            | 1028                                                               | 1028                                                              | 343                                                          | .50                                      | --                                                                           | 5.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1106 | 650                                                                           | 24.0                                            | 1028                                                               | 1028                                                              | 329                                                          | 1.0                                      | --                                                                           | 5.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1107 | 650                                                                           | 24.0                                            | 1028                                                               | 1028                                                              | 331                                                          | 1.5                                      | --                                                                           | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1108 | 650                                                                           | 23.9                                            | 1028                                                               | 1028                                                              | 336                                                          | 2.0                                      | --                                                                           | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1109 | 650                                                                           | 23.9                                            | 1028                                                               | 1028                                                              | 362                                                          | 2.5                                      | --                                                                           | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1110 | 650                                                                           | 24.0                                            | 1028                                                               | 1028                                                              | 618                                                          | 2.9                                      | --                                                                           | 5.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 18...    | 1111 | 1250                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 386                                                          | .30                                      | --                                                                           | 5.6                                            | 7.2                                                                  | .95                                                                         | --                                                                      |
| 18...    | 1112 | 1250                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 405                                                          | .50                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1113 | 1250                                                                          | 24.7                                            | 1028                                                               | 1028                                                              | 412                                                          | .80                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(000009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1998 |      |                                                                               |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...    | 1400 | --                                                                            | 22.5                                            | 1028                                                               | 1028                                                              | 18600                                                        | .30                                      | 310                                                                          | 14.1                                           | 8.8                                                                  | 3.65                                                                        | .70                                                                     |
| 28...    | 1401 | --                                                                            | 22.2                                            | 1028                                                               | 1028                                                              | 17600                                                        | .50                                      | --                                                                           | 13.2                                           | 8.7                                                                  | --                                                                          | --                                                                      |
| 28...    | 1402 | --                                                                            | 22.1                                            | 1028                                                               | 1028                                                              | 15900                                                        | 1.0                                      | --                                                                           | 11.0                                           | 8.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 1403 | --                                                                            | 21.9                                            | 1028                                                               | 1028                                                              | 17500                                                        | 1.5                                      | --                                                                           | 7.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1404 | --                                                                            | 21.9                                            | 1028                                                               | 1028                                                              | 18200                                                        | 2.0                                      | --                                                                           | 7.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1405 | --                                                                            | 21.8                                            | 1028                                                               | 1028                                                              | 18400                                                        | 2.5                                      | --                                                                           | 7.0                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1406 | --                                                                            | 21.8                                            | 1028                                                               | 1028                                                              | 19300                                                        | 3.0                                      | --                                                                           | 6.7                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1409 | --                                                                            | 21.8                                            | 1028                                                               | 1028                                                              | 19200                                                        | 3.5                                      | --                                                                           | 6.6                                            | 7.860                                                                | --                                                                          | --                                                                      |
| 29...    | 1045 | 50.0                                                                          | 21.8                                            | 1028                                                               | 1028                                                              | 14400                                                        | .30                                      | --                                                                           | 6.8                                            | 7.7                                                                  | 2.25                                                                        | --                                                                      |
| 29...    | 1046 | 50.0                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 15300                                                        | .50                                      | --                                                                           | 6.7                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 1047 | 50.0                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 16600                                                        | 1.0                                      | --                                                                           | 5.6                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 29...    | 1048 | 50.0                                                                          | 21.8                                            | 1028                                                               | 1028                                                              | 17900                                                        | 1.5                                      | --                                                                           | 5.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 29...    | 1049 | 50.0                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 18000                                                        | 2.0                                      | --                                                                           | 5.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 29...    | 1051 | 650                                                                           | 21.9                                            | 1028                                                               | 1028                                                              | 15800                                                        | .30                                      | --                                                                           | 8.9                                            | 8.1                                                                  | 3.05                                                                        | --                                                                      |
| 29...    | 1052 | 650                                                                           | 21.8                                            | 1028                                                               | 1028                                                              | 15900                                                        | .50                                      | --                                                                           | 8.7                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...    | 1053 | 650                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 16900                                                        | 1.0                                      | --                                                                           | 7.7                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 29...    | 1054 | 650                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 18400                                                        | 1.5                                      | --                                                                           | 6.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 1055 | 650                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 18300                                                        | 2.0                                      | --                                                                           | 6.7                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 1056 | 650                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 19600                                                        | 2.5                                      | --                                                                           | 6.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 1057 | 650                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 18900                                                        | 2.9                                      | --                                                                           | 6.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 1059 | 1250                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | 16100                                                        | .30                                      | --                                                                           | 9.9                                            | 8.3                                                                  | 1.55                                                                        | --                                                                      |
| 29...    | 1100 | 1250                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | 17200                                                        | .50                                      | --                                                                           | 9.6                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1101 | 1250                                                                          | 21.9                                            | 1028                                                               | 1028                                                              | 16200                                                        | 1.0                                      | --                                                                           | 9.2                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1102 | 1250                                                                          | 21.9                                            | 1028                                                               | 1028                                                              | 18400                                                        | 1.4                                      | --                                                                           | 8.6                                            | 8.1                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JAN 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...    | 1325 | --                                                                           | 22.1                                            | 1028                                                               | 1028                                                              | 3110                                                         | .30                                      | 2480                                                                         | 7.2                                            | 7.7                                                                  | 2.95                                                                        | 2.2                                                                     |
| 25...    | 1326 | --                                                                           | 22.1                                            | 1028                                                               | 1028                                                              | 3110                                                         | .50                                      | --                                                                           | 7.1                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 25...    | 1327 | --                                                                           | 21.9                                            | 1028                                                               | 1028                                                              | 4010                                                         | 1.0                                      | --                                                                           | 6.6                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1328 | --                                                                           | 21.7                                            | 1028                                                               | 1028                                                              | 8460                                                         | 1.5                                      | --                                                                           | 5.7                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 25...    | 1329 | --                                                                           | 22.3                                            | 1028                                                               | 1028                                                              | 10700                                                        | 2.0                                      | --                                                                           | 5.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 25...    | 1330 | --                                                                           | 22.3                                            | 1028                                                               | 1028                                                              | 11000                                                        | 2.5                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 25...    | 1331 | --                                                                           | 22.4                                            | 1028                                                               | 1028                                                              | 11300                                                        | 2.8                                      | --                                                                           | 4.7                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1117 | 50.0                                                                         | 21.3                                            | 1028                                                               | 1028                                                              | 6780                                                         | .30                                      | --                                                                           | 6.2                                            | 7.5                                                                  | 2.95                                                                        | --                                                                      |
| 26...    | 1118 | 50.0                                                                         | 21.2                                            | 1028                                                               | 1028                                                              | 6930                                                         | .50                                      | --                                                                           | 6.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...    | 1119 | 50.0                                                                         | 21.0                                            | 1028                                                               | 1028                                                              | 8300                                                         | 1.0                                      | --                                                                           | 5.8                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...    | 1120 | 50.0                                                                         | 20.9                                            | 1028                                                               | 1028                                                              | 8770                                                         | 1.5                                      | --                                                                           | 5.7                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1121 | 50.0                                                                         | 21.1                                            | 1028                                                               | 1028                                                              | 9520                                                         | 2.0                                      | --                                                                           | 5.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1122 | 50.0                                                                         | 21.1                                            | 1028                                                               | 1028                                                              | 9890                                                         | 2.5                                      | --                                                                           | 5.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1123 | 50.0                                                                         | 21.2                                            | 1028                                                               | 1028                                                              | 10200                                                        | 2.8                                      | --                                                                           | 5.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1124 | 650                                                                          | 21.1                                            | 1028                                                               | 1028                                                              | 6540                                                         | .30                                      | --                                                                           | 7.2                                            | 7.7                                                                  | 3.45                                                                        | --                                                                      |
| 26...    | 1125 | 650                                                                          | 21.1                                            | 1028                                                               | 1028                                                              | 6590                                                         | .50                                      | --                                                                           | 7.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 1126 | 650                                                                          | 21.1                                            | 1028                                                               | 1028                                                              | 6920                                                         | 1.0                                      | --                                                                           | 7.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 1127 | 650                                                                          | 21.2                                            | 1028                                                               | 1028                                                              | 7210                                                         | 1.5                                      | --                                                                           | 7.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 1128 | 650                                                                          | 21.3                                            | 1028                                                               | 1028                                                              | 10100                                                        | 2.0                                      | --                                                                           | 5.7                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1129 | 650                                                                          | 21.5                                            | 1028                                                               | 1028                                                              | 12100                                                        | 2.5                                      | --                                                                           | 5.1                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 26...    | 1130 | 650                                                                          | 21.6                                            | 1028                                                               | 1028                                                              | 13600                                                        | 3.0                                      | --                                                                           | 4.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 26...    | 1131 | 650                                                                          | 21.5                                            | 1028                                                               | 1028                                                              | 13800                                                        | 3.3                                      | --                                                                           | 4.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 26...    | 1137 | 1250                                                                         | 21.5                                            | 1028                                                               | 1028                                                              | 5680                                                         | .30                                      | --                                                                           | 7.7                                            | 7.7                                                                  | 1.25                                                                        | --                                                                      |
| 26...    | 1138 | 1250                                                                         | 21.4                                            | 1028                                                               | 1028                                                              | 5620                                                         | .50                                      | --                                                                           | 7.7                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 1139 | 1250                                                                         | 21.4                                            | 1028                                                               | 1028                                                              | 5870                                                         | 1.0                                      | --                                                                           | 7.6                                            | 7.7                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(000009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| FEB 1999 |      |                                                                               |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1316 | --                                                                            | 19.4                                            | 1028                                                               | 1028                                                              | 6700                                                         | .30                                      | 2540                                                                         | 7.3                                            | 7.6                                                                  | 3.25                                                                        | 2.1                                                                     |
| 22...    | 1317 | --                                                                            | 19.4                                            | 1028                                                               | 1028                                                              | 6720                                                         | .50                                      | --                                                                           | 7.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1318 | --                                                                            | 19.3                                            | 1028                                                               | 1028                                                              | 6720                                                         | 1.0                                      | --                                                                           | 7.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1319 | --                                                                            | 19.3                                            | 1028                                                               | 1028                                                              | 6880                                                         | 1.5                                      | --                                                                           | 7.1                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1320 | --                                                                            | 19.2                                            | 1028                                                               | 1028                                                              | 7320                                                         | 2.0                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1321 | --                                                                            | 19.1                                            | 1028                                                               | 1028                                                              | 7990                                                         | 2.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1322 | --                                                                            | 19.9                                            | 1028                                                               | 1028                                                              | 12200                                                        | 3.0                                      | --                                                                           | 5.6                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 22...    | 1323 | --                                                                            | 20.0                                            | 1028                                                               | 1028                                                              | 12700                                                        | 3.1                                      | --                                                                           | 5.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1033 | 50                                                                            | 17.3                                            | 1028                                                               | 1028                                                              | 12600                                                        | .30                                      | --                                                                           | 8.1                                            | 7.8                                                                  | 3.45                                                                        | --                                                                      |
| 23...    | 1034 | 50                                                                            | 17.4                                            | 1028                                                               | 1028                                                              | 12500                                                        | .50                                      | --                                                                           | 8.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1035 | 50                                                                            | 18.3                                            | 1028                                                               | 1028                                                              | 14200                                                        | 1.0                                      | --                                                                           | 7.0                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 1036 | 50                                                                            | 18.0                                            | 1028                                                               | 1028                                                              | 15600                                                        | 1.5                                      | --                                                                           | 7.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 1037 | 50                                                                            | 17.8                                            | 1028                                                               | 1028                                                              | 15800                                                        | 2.0                                      | --                                                                           | 7.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 1038 | 50                                                                            | 17.8                                            | 1028                                                               | 1028                                                              | 16000                                                        | 2.5                                      | --                                                                           | 7.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 1039 | 50                                                                            | 17.7                                            | 1028                                                               | 1028                                                              | 15900                                                        | 3.0                                      | --                                                                           | 7.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1040 | 50                                                                            | 17.7                                            | 1028                                                               | 1028                                                              | 16200                                                        | 3.3                                      | --                                                                           | 7.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1041 | 650                                                                           | 17.7                                            | 1028                                                               | 1028                                                              | 12900                                                        | .30                                      | --                                                                           | 8.2                                            | 7.9                                                                  | 3.15                                                                        | --                                                                      |
| 23...    | 1042 | 650                                                                           | 17.7                                            | 1028                                                               | 1028                                                              | 12800                                                        | .50                                      | --                                                                           | 8.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1043 | 650                                                                           | 17.6                                            | 1028                                                               | 1028                                                              | 13400                                                        | 1.0                                      | --                                                                           | 8.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1044 | 650                                                                           | 17.0                                            | 1028                                                               | 1028                                                              | 14400                                                        | 1.5                                      | --                                                                           | 8.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1045 | 650                                                                           | 17.2                                            | 1028                                                               | 1028                                                              | 14700                                                        | 2.0                                      | --                                                                           | 8.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1046 | 650                                                                           | 17.5                                            | 1028                                                               | 1028                                                              | 16700                                                        | 2.5                                      | --                                                                           | 7.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1047 | 650                                                                           | 17.5                                            | 1028                                                               | 1028                                                              | 16900                                                        | 3.0                                      | --                                                                           | 7.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1050 | 1250                                                                          | 18.4                                            | 1028                                                               | 1028                                                              | 11300                                                        | .30                                      | --                                                                           | 7.9                                            | 7.8                                                                  | 1.25                                                                        | --                                                                      |
| 23...    | 1051 | 1250                                                                          | 18.2                                            | 1028                                                               | 1028                                                              | 12900                                                        | .50                                      | --                                                                           | 8.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 1052 | 1250                                                                          | 18.3                                            | 1028                                                               | 1028                                                              | 15300                                                        | 1.0                                      | --                                                                           | 7.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 1053 | 1250                                                                          | 18.3                                            | 1028                                                               | 1028                                                              | 16200                                                        | 1.1                                      | --                                                                           | 7.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

|          |      | WATER-QUALITY DATA                                                 |                                        |                                                          |                                                         |                                     |      |                                  |                                                |                                                                     |                                                                |                                                                    |
|----------|------|--------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|---------------------------------------------------------|-------------------------------------|------|----------------------------------|------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|
| DATE     | TIME | SAMPLE                                                             | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY                                                   | AGENCY                                                  | SPE-                                | SAM- | LIGHT                            | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH                                                                  | DEPTH                                                          | LIGHT                                                              |
|          |      | LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) |                                        | COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | DUCT-<br>ANCE<br>(US/CM)<br>(00095) |      | PLING<br>DEPTH<br>(M)<br>(00098) |                                                | INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
| MAR 1999 |      |                                                                    |                                        |                                                          |                                                         |                                     |      |                                  |                                                |                                                                     |                                                                |                                                                    |
| 22...    | 1310 | --                                                                 | 23.6                                   | 1028                                                     | 1028                                                    | 13800                               | .30  | 2610                             | 6.6                                            | 7.7                                                                 | 3.25                                                           | 2.9                                                                |
| 22...    | 1311 | --                                                                 | 23.6                                   | 1028                                                     | 1028                                                    | 13800                               | .50  | --                               | 6.5                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 22...    | 1312 | --                                                                 | 23.1                                   | 1028                                                     | 1028                                                    | 15900                               | 1.0  | --                               | 6.7                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 22...    | 1313 | --                                                                 | 23.0                                   | 1028                                                     | 1028                                                    | 17000                               | 1.5  | --                               | 6.9                                            | 7.7                                                                 | --                                                             | --                                                                 |
| 22...    | 1314 | --                                                                 | 22.9                                   | 1028                                                     | 1028                                                    | 18000                               | 2.0  | --                               | 6.6                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 22...    | 1315 | --                                                                 | 22.6                                   | 1028                                                     | 1028                                                    | 21800                               | 2.5  | --                               | 5.4                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 22...    | 1316 | --                                                                 | 22.6                                   | 1028                                                     | 1028                                                    | 22400                               | 3.0  | --                               | 5.3                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 22...    | 1317 | --                                                                 | 22.6                                   | 1028                                                     | 1028                                                    | 22400                               | 3.1  | --                               | 5.3                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1034 | 50.0                                                               | 22.5                                   | 1028                                                     | 1028                                                    | 20000                               | .30  | --                               | 6.1                                            | 7.5                                                                 | 3.45                                                           | --                                                                 |
| 23...    | 1035 | 50.0                                                               | 22.5                                   | 1028                                                     | 1028                                                    | 20000                               | .50  | --                               | 6.0                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1036 | 50.0                                                               | 22.4                                   | 1028                                                     | 1028                                                    | 20000                               | 1.0  | --                               | 5.9                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1037 | 50.0                                                               | 22.0                                   | 1028                                                     | 1028                                                    | 20600                               | 1.5  | --                               | 5.9                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1038 | 50.0                                                               | 22.0                                   | 1028                                                     | 1028                                                    | 20700                               | 2.0  | --                               | 5.9                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1039 | 50.0                                                               | 21.9                                   | 1028                                                     | 1028                                                    | 20800                               | 2.5  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1040 | 50.0                                                               | 21.9                                   | 1028                                                     | 1028                                                    | 21000                               | 3.0  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1041 | 50.0                                                               | 21.9                                   | 1028                                                     | 1028                                                    | 21100                               | 3.3  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1042 | 650                                                                | 22.2                                   | 1028                                                     | 1028                                                    | 19400                               | .30  | --                               | 6.5                                            | 7.6                                                                 | 3.45                                                           | --                                                                 |
| 23...    | 1043 | 650                                                                | 22.2                                   | 1028                                                     | 1028                                                    | 19500                               | .50  | --                               | 6.5                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 23...    | 1044 | 650                                                                | 22.2                                   | 1028                                                     | 1028                                                    | 19400                               | 1.0  | --                               | 6.4                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 23...    | 1045 | 650                                                                | 22.2                                   | 1028                                                     | 1028                                                    | 19600                               | 1.5  | --                               | 6.4                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 23...    | 1046 | 650                                                                | 22.2                                   | 1028                                                     | 1028                                                    | 19600                               | 2.0  | --                               | 5.9                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 23...    | 1047 | 650                                                                | 21.8                                   | 1028                                                     | 1028                                                    | 21200                               | 2.5  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1048 | 650                                                                | 21.7                                   | 1028                                                     | 1028                                                    | 21400                               | 3.0  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1049 | 650                                                                | 21.7                                   | 1028                                                     | 1028                                                    | 21400                               | 3.3  | --                               | 5.8                                            | 7.5                                                                 | --                                                             | --                                                                 |
| 23...    | 1053 | 1250                                                               | 22.9                                   | 1028                                                     | 1028                                                    | 18700                               | .30  | --                               | 6.7                                            | 7.6                                                                 | 1.15                                                           | --                                                                 |
| 23...    | 1054 | 1250                                                               | 22.9                                   | 1028                                                     | 1028                                                    | 18800                               | .50  | --                               | 6.5                                            | 7.6                                                                 | --                                                             | --                                                                 |
| 23...    | 1055 | 1250                                                               | 22.5                                   | 1028                                                     | 1028                                                    | 19100                               | 1.0  | --                               | 6.0                                            | 7.5                                                                 | --                                                             | --                                                                 |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 19...    | 1140 | --                                                                           | 23.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 21300                                                        | .30                                      | 2620                                                                         | 6.2                                            | 7.5                                                                  | 3.55                                                                        |
| 19...    | 1141 | --                                                                           | 23.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 21200                                                        | .50                                      | --                                                                           | 6.1                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1142 | --                                                                           | 23.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 21600                                                        | 1.0                                      | --                                                                           | 6.0                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1143 | --                                                                           | 23.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 22900                                                        | 1.5                                      | --                                                                           | 5.6                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1144 | --                                                                           | 22.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 23900                                                        | 2.0                                      | --                                                                           | 5.5                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1145 | --                                                                           | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 24500                                                        | 2.5                                      | --                                                                           | 5.5                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1146 | --                                                                           | 22.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 25400                                                        | 3.0                                      | --                                                                           | 5.5                                            | 7.5                                                                  | --                                                                          |
| 19...    | 1147 | --                                                                           | 22.7                                            | 1028                                                               | 1028                                                              | 1.5                                                                        | 25400                                                        | 3.4                                      | --                                                                           | 5.4                                            | 7.5                                                                  | --                                                                          |
| 20...    | 0935 | 1250                                                                         | 22.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 23200                                                        | .30                                      | --                                                                           | 6.6                                            | 7.6                                                                  | 1.15                                                                        |
| 20...    | 0936 | 1250                                                                         | 22.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 23500                                                        | .50                                      | --                                                                           | 6.6                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0937 | 1250                                                                         | 22.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 24000                                                        | 1.0                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0942 | 650                                                                          | 22.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 23700                                                        | .30                                      | --                                                                           | 6.4                                            | 7.6                                                                  | 2.55                                                                        |
| 20...    | 0943 | 650                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 23800                                                        | .50                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0944 | 650                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 24100                                                        | 1.0                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0945 | 650                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 24300                                                        | 1.5                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0946 | 650                                                                          | 22.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 25000                                                        | 2.0                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0947 | 650                                                                          | 22.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 25600                                                        | 2.4                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0950 | 50.0                                                                         | 22.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 24200                                                        | .30                                      | --                                                                           | 6.1                                            | 7.6                                                                  | 3.85                                                                        |
| 20...    | 0951 | 50.0                                                                         | 22.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 24200                                                        | .50                                      | --                                                                           | 6.1                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0952 | 50.0                                                                         | 22.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 25200                                                        | 1.0                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0953 | 50.0                                                                         | 22.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 25500                                                        | 1.5                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0954 | 50.0                                                                         | 22.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 25500                                                        | 2.0                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0955 | 50.0                                                                         | 22.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 25600                                                        | 2.5                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0956 | 50.0                                                                         | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 25800                                                        | 3.0                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          |
| 20...    | 0957 | 50.0                                                                         | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 25900                                                        | 3.5                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

|          |      | WATER-QUALITY DATA                                                           |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|          |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| MAY 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...    | 1214 | --                                                                           | 28.7                                            | 1028                                                               | 1028                                                              | 25200                                                        | .30                                      | 2780                                                                         | 6.0                                            | 7.6                                                                  | 3.65                                                                        | 3.0                                                                     |
| 25...    | 1215 | --                                                                           | 28.7                                            | 1028                                                               | 1028                                                              | 26100                                                        | .50                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1216 | --                                                                           | 28.7                                            | 1028                                                               | 1028                                                              | 26500                                                        | 1.0                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1217 | --                                                                           | 28.6                                            | 1028                                                               | 1028                                                              | 26500                                                        | 1.5                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1218 | --                                                                           | 28.6                                            | 1028                                                               | 1028                                                              | 26600                                                        | 2.0                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1219 | --                                                                           | 28.6                                            | 1028                                                               | 1028                                                              | 26800                                                        | 2.5                                      | --                                                                           | 5.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1220 | --                                                                           | 28.6                                            | 1028                                                               | 1028                                                              | 27000                                                        | 3.0                                      | --                                                                           | 5.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1221 | --                                                                           | 28.6                                            | 1028                                                               | 1028                                                              | 26600                                                        | 3.5                                      | --                                                                           | 5.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0944 | 50.0                                                                         | 29.0                                            | 1028                                                               | 1028                                                              | 16700                                                        | .30                                      | --                                                                           | 6.5                                            | 7.7                                                                  | 2.65                                                                        | --                                                                      |
| 26...    | 0945 | 50.0                                                                         | 28.5                                            | 1028                                                               | 1028                                                              | 17500                                                        | .50                                      | --                                                                           | 6.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 0946 | 50.0                                                                         | 28.5                                            | 1028                                                               | 1028                                                              | 19000                                                        | 1.0                                      | --                                                                           | 5.2                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0947 | 50.0                                                                         | 28.5                                            | 1028                                                               | 1028                                                              | 19500                                                        | 1.5                                      | --                                                                           | 5.1                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...    | 0948 | 50.0                                                                         | 28.5                                            | 1028                                                               | 1028                                                              | 19400                                                        | 2.0                                      | --                                                                           | 5.1                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...    | 0949 | 50.0                                                                         | 28.6                                            | 1028                                                               | 1028                                                              | 19500                                                        | 2.5                                      | --                                                                           | 5.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...    | 0950 | 650                                                                          | 28.7                                            | 1028                                                               | 1028                                                              | 19300                                                        | .30                                      | --                                                                           | 6.3                                            | 7.7                                                                  | 3.65                                                                        | --                                                                      |
| 26...    | 0951 | 650                                                                          | 28.7                                            | 1028                                                               | 1028                                                              | 19300                                                        | .50                                      | --                                                                           | 6.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 0952 | 650                                                                          | 28.6                                            | 1028                                                               | 1028                                                              | 20300                                                        | 1.0                                      | --                                                                           | 5.9                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 26...    | 0953 | 650                                                                          | 28.6                                            | 1028                                                               | 1028                                                              | 21100                                                        | 1.5                                      | --                                                                           | 5.6                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0954 | 650                                                                          | 28.6                                            | 1028                                                               | 1028                                                              | 21500                                                        | 2.0                                      | --                                                                           | 5.6                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0955 | 650                                                                          | 28.6                                            | 1028                                                               | 1028                                                              | 21600                                                        | 2.5                                      | --                                                                           | 5.5                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0956 | 650                                                                          | 28.6                                            | 1028                                                               | 1028                                                              | 21800                                                        | 3.0                                      | --                                                                           | 5.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 0957 | 650                                                                          | 28.5                                            | 1028                                                               | 1028                                                              | 21600                                                        | 3.5                                      | --                                                                           | 5.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 1000 | 1250                                                                         | 28.7                                            | 1028                                                               | 1028                                                              | 20900                                                        | .30                                      | --                                                                           | 5.4                                            | 7.6                                                                  | 1.25                                                                        | --                                                                      |
| 26...    | 1001 | 1250                                                                         | 28.7                                            | 1028                                                               | 1028                                                              | 21500                                                        | .50                                      | --                                                                           | 5.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 26...    | 1002 | 1250                                                                         | 28.6                                            | 1028                                                               | 1028                                                              | 21300                                                        | 1.0                                      | --                                                                           | 5.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

| WATER-QUALITY DATA |      |                                                                    |                                        |                                                          |                                                         |                                             |                                     |                                                                     |                                                |                                                                |                                                                    |                                                                |
|--------------------|------|--------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|-------------------------------------|---------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------|
| DATE               | TIME | SAMPLE                                                             | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY                                                   | AGENCY                                                  | SPE-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAMPLING<br>DEPTH<br>(M)<br>(00098) | LIGHT                                                               | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH                                                             | DEPTH                                                              | LIGHT                                                          |
|                    |      | LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) |                                        | COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) |                                             |                                     | INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) |                                                | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|                    |      |                                                                    |                                        |                                                          |                                                         |                                             |                                     |                                                                     |                                                |                                                                |                                                                    |                                                                |
| JUN 1999           |      |                                                                    |                                        |                                                          |                                                         |                                             |                                     |                                                                     |                                                |                                                                |                                                                    |                                                                |
| 22...              | 1210 | --                                                                 | 29.5                                   | 1028                                                     | 1028                                                    | 1460                                        | .30                                 | 3680                                                                | 3.5                                            | 7.1                                                            | 3.85                                                               | 1.5                                                            |
| 22...              | 1211 | --                                                                 | 28.5                                   | 1028                                                     | 1028                                                    | 1650                                        | .50                                 | --                                                                  | 2.9                                            | 7.1                                                            | --                                                                 | --                                                             |
| 22...              | 1212 | --                                                                 | 27.4                                   | 1028                                                     | 1028                                                    | 2330                                        | 1.0                                 | --                                                                  | 2.7                                            | 7.0                                                            | --                                                                 | --                                                             |
| 22...              | 1213 | --                                                                 | 27.1                                   | 1028                                                     | 1028                                                    | 4340                                        | 1.5                                 | --                                                                  | 2.6                                            | 6.9                                                            | --                                                                 | --                                                             |
| 22...              | 1214 | --                                                                 | 27.0                                   | 1028                                                     | 1028                                                    | 7690                                        | 2.0                                 | --                                                                  | 2.3                                            | 6.9                                                            | --                                                                 | --                                                             |
| 22...              | 1216 | --                                                                 | 27.1                                   | 1028                                                     | 1028                                                    | 11800                                       | 2.5                                 | --                                                                  | 2.2                                            | 6.8                                                            | --                                                                 | --                                                             |
| 22...              | 1217 | --                                                                 | 27.3                                   | 1028                                                     | 1028                                                    | 15800                                       | 3.0                                 | --                                                                  | 1.5                                            | 6.8                                                            | --                                                                 | --                                                             |
| 22...              | 1218 | --                                                                 | 27.5                                   | 1028                                                     | 1028                                                    | 20300                                       | 3.5                                 | --                                                                  | 1.2                                            | 6.8                                                            | --                                                                 | --                                                             |
| 23...              | 0930 | 1250                                                               | 28.3                                   | 1028                                                     | 1028                                                    | 1770                                        | .30                                 | --                                                                  | 4.1                                            | 7.1                                                            | 1.35                                                               | --                                                             |
| 23...              | 0931 | 1250                                                               | 28.2                                   | 1028                                                     | 1028                                                    | 1690                                        | .50                                 | --                                                                  | 4.1                                            | 7.1                                                            | --                                                                 | --                                                             |
| 23...              | 0932 | 1250                                                               | 28.0                                   | 1028                                                     | 1028                                                    | 3930                                        | 1.0                                 | --                                                                  | 3.8                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0933 | 1250                                                               | 28.0                                   | 1028                                                     | 1028                                                    | 4420                                        | 1.2                                 | --                                                                  | 3.7                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0934 | 650                                                                | 28.2                                   | 1028                                                     | 1028                                                    | 2210                                        | .30                                 | --                                                                  | 4.4                                            | 7.1                                                            | 3.65                                                               | --                                                             |
| 23...              | 0935 | 650                                                                | 28.2                                   | 1028                                                     | 1028                                                    | 2220                                        | .50                                 | --                                                                  | 4.4                                            | 7.1                                                            | --                                                                 | --                                                             |
| 23...              | 0936 | 650                                                                | 28.2                                   | 1028                                                     | 1028                                                    | 2260                                        | 1.0                                 | --                                                                  | 4.5                                            | 7.1                                                            | --                                                                 | --                                                             |
| 23...              | 0937 | 650                                                                | 28.0                                   | 1028                                                     | 1028                                                    | 3990                                        | 1.5                                 | --                                                                  | 4.0                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0938 | 650                                                                | 28.0                                   | 1028                                                     | 1028                                                    | 4400                                        | 2.0                                 | --                                                                  | 3.8                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0939 | 650                                                                | 28.0                                   | 1028                                                     | 1028                                                    | 8620                                        | 2.5                                 | --                                                                  | 3.1                                            | 6.9                                                            | --                                                                 | --                                                             |
| 23...              | 0940 | 650                                                                | 28.1                                   | 1028                                                     | 1028                                                    | 16200                                       | 3.0                                 | --                                                                  | 2.3                                            | 6.8                                                            | --                                                                 | --                                                             |
| 23...              | 0941 | 650                                                                | 28.1                                   | 1028                                                     | 1028                                                    | 16600                                       | 3.5                                 | --                                                                  | 2.2                                            | 6.9                                                            | --                                                                 | --                                                             |
| 23...              | 0942 | 50.0                                                               | 28.2                                   | 1028                                                     | 1028                                                    | 2220                                        | .30                                 | --                                                                  | 4.2                                            | 7.1                                                            | 3.25                                                               | --                                                             |
| 23...              | 0943 | 50.0                                                               | 28.1                                   | 1028                                                     | 1028                                                    | 2270                                        | .50                                 | --                                                                  | 4.2                                            | 7.1                                                            | --                                                                 | --                                                             |
| 23...              | 0944 | 50.0                                                               | 27.9                                   | 1028                                                     | 1028                                                    | 4650                                        | 1.0                                 | --                                                                  | 3.8                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0945 | 50.0                                                               | 27.9                                   | 1028                                                     | 1028                                                    | 5230                                        | 1.5                                 | --                                                                  | 3.5                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0946 | 50.0                                                               | 27.9                                   | 1028                                                     | 1028                                                    | 6090                                        | 2.0                                 | --                                                                  | 3.3                                            | 7.0                                                            | --                                                                 | --                                                             |
| 23...              | 0947 | 50.0                                                               | 28.0                                   | 1028                                                     | 1028                                                    | 8330                                        | 2.5                                 | --                                                                  | 3.0                                            | 6.9                                                            | --                                                                 | --                                                             |
| 23...              | 0948 | 50.0                                                               | 28.0                                   | 1028                                                     | 1028                                                    | 10200                                       | 3.0                                 | --                                                                  | 2.8                                            | 6.9                                                            | --                                                                 | --                                                             |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUL 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 27...    | 1142 | --                                                                           | 31.5                                            | 1028                                                               | 1028                                                              | 499                                                          | .30                                      | 846                                                                          | 4.5                                            | 7.0                                                                  | 4.25                                                                        | .68                                                                     |
| 27...    | 1143 | --                                                                           | 31.5                                            | 1028                                                               | 1028                                                              | 494                                                          | .50                                      | --                                                                           | 4.5                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1144 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 493                                                          | 1.0                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1146 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 482                                                          | 1.5                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1147 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 488                                                          | 2.0                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1148 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 477                                                          | 2.5                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1149 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 496                                                          | 3.0                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1150 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 503                                                          | 3.5                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 1151 | --                                                                           | 31.4                                            | 1028                                                               | 1028                                                              | 480                                                          | 4.0                                      | --                                                                           | 4.4                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 0950 | 1250                                                                         | 31.6                                            | 1028                                                               | 1028                                                              | 437                                                          | .30                                      | --                                                                           | 3.9                                            | 7.7                                                                  | 1.55                                                                        | --                                                                      |
| 28...    | 0951 | 1250                                                                         | 31.4                                            | 1028                                                               | 1028                                                              | 441                                                          | .50                                      | --                                                                           | 3.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0952 | 1250                                                                         | 31.3                                            | 1028                                                               | 1028                                                              | 420                                                          | 1.0                                      | --                                                                           | 3.8                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 28...    | 0953 | 1250                                                                         | 31.3                                            | 1028                                                               | 1028                                                              | 443                                                          | 1.4                                      | --                                                                           | 3.8                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 28...    | 0954 | 650                                                                          | 31.8                                            | 1028                                                               | 1028                                                              | 438                                                          | .30                                      | --                                                                           | 3.8                                            | 7.5                                                                  | 3.65                                                                        | --                                                                      |
| 28...    | 0955 | 650                                                                          | 31.4                                            | 1028                                                               | 1028                                                              | 438                                                          | .50                                      | --                                                                           | 3.6                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0956 | 650                                                                          | 31.2                                            | 1028                                                               | 1028                                                              | 428                                                          | 1.0                                      | --                                                                           | 3.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0957 | 650                                                                          | 31.2                                            | 1028                                                               | 1028                                                              | 416                                                          | 1.5                                      | --                                                                           | 3.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0958 | 650                                                                          | 31.2                                            | 1028                                                               | 1028                                                              | 411                                                          | 2.0                                      | --                                                                           | 3.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 0959 | 650                                                                          | 31.2                                            | 1028                                                               | 1028                                                              | 420                                                          | 2.5                                      | --                                                                           | 3.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1000 | 650                                                                          | 31.1                                            | 1028                                                               | 1028                                                              | 438                                                          | 3.0                                      | --                                                                           | 3.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1001 | 650                                                                          | 31.1                                            | 1028                                                               | 1028                                                              | 425                                                          | 3.5                                      | --                                                                           | 3.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1002 | 50.0                                                                         | 32.4                                            | 1028                                                               | 1028                                                              | 417                                                          | .30                                      | --                                                                           | 4.1                                            | 7.4                                                                  | 2.35                                                                        | --                                                                      |
| 28...    | 1003 | 50.0                                                                         | 32.2                                            | 1028                                                               | 1028                                                              | 432                                                          | .50                                      | --                                                                           | 3.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1004 | 50.0                                                                         | 31.3                                            | 1028                                                               | 1028                                                              | 448                                                          | 1.0                                      | --                                                                           | 3.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1005 | 50.0                                                                         | 31.3                                            | 1028                                                               | 1028                                                              | 453                                                          | 1.5                                      | --                                                                           | 3.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1006 | 50.0                                                                         | 31.2                                            | 1028                                                               | 1028                                                              | 449                                                          | 2.0                                      | --                                                                           | 3.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| AUG 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 23...    | 1215 | --                                                                           | 29.2                                            | 1028                                                               | 1028                                                              | 384                                                          | .30                                      | 1710                                                                         | 5.2                                            | 6.9                                                                  | 4.05                                                                        | .90                                                                     |
| 23...    | 1216 | --                                                                           | 28.8                                            | 1028                                                               | 1028                                                              | 382                                                          | .50                                      | --                                                                           | 5.2                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1217 | --                                                                           | 28.4                                            | 1028                                                               | 1028                                                              | 372                                                          | 1.0                                      | --                                                                           | 5.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1218 | --                                                                           | 28.5                                            | 1028                                                               | 1028                                                              | 377                                                          | 1.5                                      | --                                                                           | 5.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1219 | --                                                                           | 28.4                                            | 1028                                                               | 1028                                                              | 370                                                          | 2.0                                      | --                                                                           | 5.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1220 | --                                                                           | 28.3                                            | 1028                                                               | 1028                                                              | 370                                                          | 2.5                                      | --                                                                           | 5.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1221 | --                                                                           | 28.3                                            | 1028                                                               | 1028                                                              | 372                                                          | 3.0                                      | --                                                                           | 5.1                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1222 | --                                                                           | 28.3                                            | 1028                                                               | 1028                                                              | 372                                                          | 3.5                                      | --                                                                           | 5.1                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1223 | --                                                                           | 28.3                                            | 1028                                                               | 1028                                                              | 369                                                          | 3.9                                      | --                                                                           | 5.1                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0918 | 50.0                                                                         | 28.4                                            | 1028                                                               | 1028                                                              | 317                                                          | .30                                      | --                                                                           | 5.0                                            | 7.0                                                                  | 3.15                                                                        | --                                                                      |
| 24...    | 0919 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 311                                                          | .50                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0920 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 310                                                          | 1.0                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0921 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 318                                                          | 1.5                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0922 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 317                                                          | 2.0                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0923 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 319                                                          | 2.5                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0924 | 50.0                                                                         | 28.1                                            | 1028                                                               | 1028                                                              | 321                                                          | 3.0                                      | --                                                                           | 4.5                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 24...    | 0925 | 650                                                                          | 28.4                                            | 1028                                                               | 1028                                                              | 317                                                          | .30                                      | --                                                                           | 4.9                                            | 7.0                                                                  | 2.95                                                                        | --                                                                      |
| 24...    | 0926 | 650                                                                          | 28.4                                            | 1028                                                               | 1028                                                              | 322                                                          | .50                                      | --                                                                           | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0927 | 650                                                                          | 28.2                                            | 1028                                                               | 1028                                                              | 323                                                          | 1.0                                      | --                                                                           | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0928 | 650                                                                          | 28.2                                            | 1028                                                               | 1028                                                              | 327                                                          | 1.5                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0929 | 650                                                                          | 28.1                                            | 1028                                                               | 1028                                                              | 326                                                          | 2.0                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0930 | 650                                                                          | 28.1                                            | 1028                                                               | 1028                                                              | 328                                                          | 2.5                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0931 | 650                                                                          | 28.1                                            | 1028                                                               | 1028                                                              | 326                                                          | 2.8                                      | --                                                                           | 4.6                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0932 | 1250                                                                         | 28.4                                            | 1028                                                               | 1028                                                              | 324                                                          | .30                                      | --                                                                           | 4.8                                            | 7.0                                                                  | 1.45                                                                        | --                                                                      |
| 24...    | 0933 | 1250                                                                         | 28.4                                            | 1028                                                               | 1028                                                              | 327                                                          | .50                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0934 | 1250                                                                         | 28.4                                            | 1028                                                               | 1028                                                              | 327                                                          | 1.0                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 0935 | 1250                                                                         | 28.4                                            | 1028                                                               | 1028                                                              | 321                                                          | 1.3                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
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| WATER-QUALITY DATA |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
|--------------------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE               | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|                    |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| SEP 1999           |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 23...              | 1142 | --                                                                           | 27.1                                            | 1028                                                               | 1028                                                              | 925                                                          | .30                                      | 2200                                                                         | 4.7                                            | 7.3                                                                  | 4.15                                                                        | 1.3                                                                     |
| 23...              | 1143 | --                                                                           | 26.9                                            | 1028                                                               | 1028                                                              | 924                                                          | .50                                      | --                                                                           | 4.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1144 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 923                                                          | 1.0                                      | --                                                                           | 4.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1145 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 922                                                          | 1.5                                      | --                                                                           | 4.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1146 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 921                                                          | 2.0                                      | --                                                                           | 4.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1147 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 919                                                          | 2.5                                      | --                                                                           | 4.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1148 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 917                                                          | 3.0                                      | --                                                                           | 4.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1149 | --                                                                           | 26.7                                            | 1028                                                               | 1028                                                              | 917                                                          | 3.5                                      | --                                                                           | 4.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...              | 1150 | --                                                                           | 26.8                                            | 1028                                                               | 1028                                                              | 916                                                          | 4.0                                      | --                                                                           | 4.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 24...              | 1000 | 50.0                                                                         | 27.0                                            | 1028                                                               | 1028                                                              | 449                                                          | .30                                      | --                                                                           | 4.6                                            | 7.1                                                                  | 2.55                                                                        | --                                                                      |
| 24...              | 1001 | 50.0                                                                         | 26.8                                            | 1028                                                               | 1028                                                              | 449                                                          | .50                                      | --                                                                           | 4.5                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...              | 1002 | 50.0                                                                         | 26.1                                            | 1028                                                               | 1028                                                              | 471                                                          | 1.0                                      | --                                                                           | 4.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...              | 1003 | 50.0                                                                         | 26.1                                            | 1028                                                               | 1028                                                              | 495                                                          | 1.5                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1004 | 50.0                                                                         | 26.1                                            | 1028                                                               | 1028                                                              | 541                                                          | 2.0                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1005 | 50.0                                                                         | 26.1                                            | 1028                                                               | 1028                                                              | 568                                                          | 2.4                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1008 | 650                                                                          | 26.5                                            | 1028                                                               | 1028                                                              | 394                                                          | .30                                      | --                                                                           | 4.3                                            | 7.1                                                                  | 3.55                                                                        | --                                                                      |
| 24...              | 1009 | 650                                                                          | 26.4                                            | 1028                                                               | 1028                                                              | 406                                                          | .50                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1010 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 458                                                          | 1.0                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1011 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 446                                                          | 1.5                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1012 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 520                                                          | 2.0                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1013 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 569                                                          | 2.5                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1014 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 613                                                          | 3.0                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1015 | 650                                                                          | 26.1                                            | 1028                                                               | 1028                                                              | 633                                                          | 3.4                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1017 | 1250                                                                         | 26.6                                            | 1028                                                               | 1028                                                              | 572                                                          | .30                                      | --                                                                           | 4.3                                            | 7.1                                                                  | 1.45                                                                        | --                                                                      |
| 24...              | 1018 | 1250                                                                         | 26.6                                            | 1028                                                               | 1028                                                              | 567                                                          | .50                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1019 | 1250                                                                         | 26.5                                            | 1028                                                               | 1028                                                              | 571                                                          | 1.0                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...              | 1020 | 1250                                                                         | 26.5                                            | 1028                                                               | 1028                                                              | 576                                                          | 1.3                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

| WATER-QUALITY DATA |      |                                                                    |                                        |                                                          |                                                         |                                                      |                                          |                                                                     |                                                |                                                                |                                                                    |                                                                           |
|--------------------|------|--------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| DATE               | TIME | SAMPLE                                                             | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY                                                   | AGENCY                                                  | SPE-                                                 | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT                                                               | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH                                                             | DEPTH                                                              | LIGHT                                                                     |
|                    |      | LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) |                                        | COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) |                                          | INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) |                                                | WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | DEPTH<br>TO<br>SURFACE<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|                    |      |                                                                    |                                        |                                                          |                                                         |                                                      |                                          |                                                                     |                                                |                                                                |                                                                    |                                                                           |
| OCT 1999           |      |                                                                    |                                        |                                                          |                                                         |                                                      |                                          |                                                                     |                                                |                                                                |                                                                    |                                                                           |
| 19...              | 1245 | --                                                                 | 27.5                                   | 1028                                                     | 1028                                                    | 227                                                  | .30                                      | 2640                                                                | 4.8                                            | 7.3                                                            | 3.75                                                               | 1.0                                                                       |
| 19...              | 1246 | --                                                                 | 27.0                                   | 1028                                                     | 1028                                                    | 236                                                  | .50                                      | --                                                                  | 4.7                                            | 7.3                                                            | --                                                                 | --                                                                        |
| 19...              | 1247 | --                                                                 | 26.0                                   | 1028                                                     | 1028                                                    | 231                                                  | 1.0                                      | --                                                                  | 4.6                                            | 7.3                                                            | --                                                                 | --                                                                        |
| 19...              | 1248 | --                                                                 | 26.0                                   | 1028                                                     | 1028                                                    | 240                                                  | 1.5                                      | --                                                                  | 4.6                                            | 7.2                                                            | --                                                                 | --                                                                        |
| 19...              | 1249 | --                                                                 | 26.0                                   | 1028                                                     | 1028                                                    | 253                                                  | 2.0                                      | --                                                                  | 4.6                                            | 7.2                                                            | --                                                                 | --                                                                        |
| 19...              | 1250 | --                                                                 | 25.9                                   | 1028                                                     | 1028                                                    | 228                                                  | 2.5                                      | --                                                                  | 4.6                                            | 7.2                                                            | --                                                                 | --                                                                        |
| 19...              | 1251 | --                                                                 | 25.9                                   | 1028                                                     | 1028                                                    | 227                                                  | 3.0                                      | --                                                                  | 4.6                                            | 7.2                                                            | --                                                                 | --                                                                        |
| 19...              | 1252 | --                                                                 | 25.9                                   | 1028                                                     | 1028                                                    | 240                                                  | 3.5                                      | --                                                                  | 4.6                                            | 7.2                                                            | --                                                                 | --                                                                        |
| 20...              | 1101 | 1250                                                               | 27.2                                   | 1028                                                     | 1028                                                    | 458                                                  | .30                                      | --                                                                  | 4.9                                            | 6.8                                                            | 1.55                                                               | --                                                                        |
| 20...              | 1102 | 1250                                                               | 27.0                                   | 1028                                                     | 1028                                                    | 558                                                  | .50                                      | --                                                                  | 4.7                                            | 6.9                                                            | --                                                                 | --                                                                        |
| 20...              | 1103 | 1250                                                               | 26.6                                   | 1028                                                     | 1028                                                    | 1050                                                 | 1.0                                      | --                                                                  | 4.6                                            | 6.8                                                            | --                                                                 | --                                                                        |
| 20...              | 1104 | 1250                                                               | 26.6                                   | 1028                                                     | 1028                                                    | 1240                                                 | 1.4                                      | --                                                                  | 4.5                                            | 6.9                                                            | --                                                                 | --                                                                        |
| 20...              | 1105 | 650                                                                | 27.1                                   | 1028                                                     | 1028                                                    | 484                                                  | .30                                      | --                                                                  | 4.8                                            | 7.1                                                            | 3.75                                                               | --                                                                        |
| 20...              | 1106 | 650                                                                | 27.1                                   | 1028                                                     | 1028                                                    | 528                                                  | .50                                      | --                                                                  | 4.9                                            | 7.1                                                            | --                                                                 | --                                                                        |
| 20...              | 1107 | 650                                                                | 26.9                                   | 1028                                                     | 1028                                                    | 990                                                  | 1.0                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1108 | 650                                                                | 26.6                                   | 1028                                                     | 1028                                                    | 1220                                                 | 1.5                                      | --                                                                  | 4.5                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1109 | 650                                                                | 26.6                                   | 1028                                                     | 1028                                                    | 1300                                                 | 2.0                                      | --                                                                  | 4.5                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1110 | 650                                                                | 26.6                                   | 1028                                                     | 1028                                                    | 1350                                                 | 2.5                                      | --                                                                  | 4.5                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1111 | 650                                                                | 26.6                                   | 1028                                                     | 1028                                                    | 1410                                                 | 3.0                                      | --                                                                  | 4.5                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1112 | 650                                                                | 26.6                                   | 1028                                                     | 1028                                                    | 1480                                                 | 3.5                                      | --                                                                  | 4.4                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1113 | 50.0                                                               | 26.6                                   | 1028                                                     | 1028                                                    | 266                                                  | .30                                      | --                                                                  | 4.6                                            | 7.1                                                            | 3.95                                                               | --                                                                        |
| 20...              | 1114 | 50.0                                                               | 26.4                                   | 1028                                                     | 1028                                                    | 294                                                  | .50                                      | --                                                                  | 4.6                                            | 7.1                                                            | --                                                                 | --                                                                        |
| 20...              | 1115 | 50.0                                                               | 26.4                                   | 1028                                                     | 1028                                                    | 736                                                  | 1.0                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1116 | 50.0                                                               | 26.4                                   | 1028                                                     | 1028                                                    | 859                                                  | 1.5                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1117 | 50.0                                                               | 26.4                                   | 1028                                                     | 1028                                                    | 920                                                  | 2.0                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1118 | 50.0                                                               | 26.5                                   | 1028                                                     | 1028                                                    | 954                                                  | 2.5                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1119 | 50.0                                                               | 26.5                                   | 1028                                                     | 1028                                                    | 978                                                  | 3.0                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1120 | 50.0                                                               | 26.5                                   | 1028                                                     | 1028                                                    | 988                                                  | 3.5                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |
| 20...              | 1121 | 50.0                                                               | 26.5                                   | 1028                                                     | 1028                                                    | 993                                                  | 3.8                                      | --                                                                  | 4.6                                            | 7.0                                                            | --                                                                 | --                                                                        |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(000009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| NOV 1999 |      |                                                                               |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 16...    | 1201 | --                                                                            | 23.7                                            | 1028                                                               | 1028                                                              | 12400                                                        | .30                                      | 1120                                                                         | 9.3                                            | 8.1                                                                  | 3.55                                                                        | 1.1                                                                     |
| 16...    | 1202 | --                                                                            | 23.8                                            | 1028                                                               | 1028                                                              | 12400                                                        | .50                                      | --                                                                           | 9.2                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 16...    | 1203 | --                                                                            | 23.6                                            | 1028                                                               | 1028                                                              | 14000                                                        | 1.0                                      | --                                                                           | 9.1                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 16...    | 1204 | --                                                                            | 23.7                                            | 1028                                                               | 1028                                                              | 15800                                                        | 1.5                                      | --                                                                           | 8.3                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 16...    | 1205 | --                                                                            | 23.8                                            | 1028                                                               | 1028                                                              | 17300                                                        | 2.0                                      | --                                                                           | 7.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 16...    | 1206 | --                                                                            | 24.0                                            | 1028                                                               | 1028                                                              | 19600                                                        | 2.5                                      | --                                                                           | 7.0                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 16...    | 1207 | --                                                                            | 24.0                                            | 1028                                                               | 1028                                                              | 20600                                                        | 3.0                                      | --                                                                           | 6.9                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 16...    | 1208 | --                                                                            | 24.0                                            | 1028                                                               | 1028                                                              | 21700                                                        | 3.4                                      | --                                                                           | 6.7                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1054 | 50.0                                                                          | 21.9                                            | 1028                                                               | 1028                                                              | 12700                                                        | .30                                      | --                                                                           | 8.1                                            | 7.9                                                                  | 2.05                                                                        | --                                                                      |
| 17...    | 1055 | 50.0                                                                          | 21.9                                            | 1028                                                               | 1028                                                              | 12600                                                        | .50                                      | --                                                                           | 8.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1056 | 50.0                                                                          | 21.9                                            | 1028                                                               | 1028                                                              | 13100                                                        | 1.0                                      | --                                                                           | 7.8                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1057 | 50.0                                                                          | 22.0                                            | 1028                                                               | 1028                                                              | 14200                                                        | 1.5                                      | --                                                                           | 7.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1058 | 50.0                                                                          | 22.8                                            | 1028                                                               | 1028                                                              | 18000                                                        | 1.9                                      | --                                                                           | 6.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 17...    | 1102 | 650                                                                           | 21.9                                            | 1028                                                               | 1028                                                              | 12400                                                        | .30                                      | --                                                                           | 8.2                                            | 7.9                                                                  | 3.65                                                                        | --                                                                      |
| 17...    | 1103 | 650                                                                           | 21.9                                            | 1028                                                               | 1028                                                              | 12500                                                        | .50                                      | --                                                                           | 8.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1104 | 650                                                                           | 21.9                                            | 1028                                                               | 1028                                                              | 12800                                                        | 1.0                                      | --                                                                           | 8.0                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1105 | 650                                                                           | 22.0                                            | 1028                                                               | 1028                                                              | 13600                                                        | 1.5                                      | --                                                                           | 7.7                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1106 | 650                                                                           | 22.0                                            | 1028                                                               | 1028                                                              | 14800                                                        | 2.0                                      | --                                                                           | 7.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1107 | 650                                                                           | 22.8                                            | 1028                                                               | 1028                                                              | 21200                                                        | 2.5                                      | --                                                                           | 6.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 17...    | 1108 | 650                                                                           | 22.8                                            | 1028                                                               | 1028                                                              | 22200                                                        | 3.0                                      | --                                                                           | 5.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 17...    | 1109 | 650                                                                           | 22.8                                            | 1028                                                               | 1028                                                              | 23400                                                        | 3.5                                      | --                                                                           | 5.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 17...    | 1114 | 1250                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 11100                                                        | .30                                      | --                                                                           | 8.5                                            | 7.9                                                                  | 1.15                                                                        | --                                                                      |
| 17...    | 1115 | 1250                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 11200                                                        | .50                                      | --                                                                           | 8.5                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 17...    | 1116 | 1250                                                                          | 21.7                                            | 1028                                                               | 1028                                                              | 11200                                                        | 1.0                                      | --                                                                           | 8.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | TIME | SAMPLE<br>LOC-<br>ATION,<br>CROSS<br>SECTION<br>(FT FM<br>L BANK)<br>(00009) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1999 |      |                                                                              |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 20...    | 1156 | --                                                                           | 20.5                                            | 1028                                                               | 1028                                                              | 14500                                                        | .30                                      | 2160                                                                         | 6.7                                            | 7.7                                                                  | 3.55                                                                        | 2.2                                                                     |
| 20...    | 1157 | --                                                                           | 20.5                                            | 1028                                                               | 1028                                                              | 14600                                                        | .50                                      | --                                                                           | 6.7                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 20...    | 1158 | --                                                                           | 20.5                                            | 1028                                                               | 1028                                                              | 15300                                                        | 1.0                                      | --                                                                           | 6.6                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 20...    | 1159 | --                                                                           | 20.3                                            | 1028                                                               | 1028                                                              | 15900                                                        | 1.5                                      | --                                                                           | 6.5                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 20...    | 1201 | --                                                                           | 20.3                                            | 1028                                                               | 1028                                                              | 18500                                                        | 2.0                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 20...    | 1202 | --                                                                           | 20.2                                            | 1028                                                               | 1028                                                              | 19100                                                        | 2.5                                      | --                                                                           | 6.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 20...    | 1203 | --                                                                           | 20.2                                            | 1028                                                               | 1028                                                              | 19100                                                        | 3.0                                      | --                                                                           | 6.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 20...    | 1204 | --                                                                           | 20.2                                            | 1028                                                               | 1028                                                              | 19200                                                        | 3.4                                      | --                                                                           | 6.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 21...    | 1117 | 50.0                                                                         | 20.6                                            | 1028                                                               | 1028                                                              | 10400                                                        | .30                                      | --                                                                           | 6.2                                            | 7.4                                                                  | 3.45                                                                        | --                                                                      |
| 21...    | 1118 | 50.0                                                                         | 20.5                                            | 1028                                                               | 1028                                                              | 10500                                                        | .50                                      | --                                                                           | 6.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1119 | 50.0                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 10900                                                        | 1.0                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1120 | 50.0                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 11100                                                        | 1.5                                      | --                                                                           | 5.9                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1121 | 50.0                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 10900                                                        | 2.0                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1122 | 50.0                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 11400                                                        | 2.5                                      | --                                                                           | 5.9                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1123 | 50.0                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 11600                                                        | 3.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1124 | 50.0                                                                         | 20.3                                            | 1028                                                               | 1028                                                              | 12100                                                        | 3.3                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1126 | 650                                                                          | 20.8                                            | 1028                                                               | 1028                                                              | 11600                                                        | .30                                      | --                                                                           | 6.5                                            | 7.5                                                                  | 2.95                                                                        | --                                                                      |
| 21...    | 1127 | 650                                                                          | 20.8                                            | 1028                                                               | 1028                                                              | 11800                                                        | .50                                      | --                                                                           | 6.5                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1128 | 650                                                                          | 20.4                                            | 1028                                                               | 1028                                                              | 14700                                                        | 1.0                                      | --                                                                           | 5.9                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1129 | 650                                                                          | 20.4                                            | 1028                                                               | 1028                                                              | 15600                                                        | 1.5                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1130 | 650                                                                          | 20.3                                            | 1028                                                               | 1028                                                              | 16200                                                        | 2.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1131 | 650                                                                          | 20.3                                            | 1028                                                               | 1028                                                              | 15800                                                        | 2.5                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1132 | 650                                                                          | 20.3                                            | 1028                                                               | 1028                                                              | 14600                                                        | 2.7                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1135 | 1250                                                                         | 20.8                                            | 1028                                                               | 1028                                                              | 11000                                                        | .30                                      | --                                                                           | 6.4                                            | 7.5                                                                  | 1.25                                                                        | --                                                                      |
| 21...    | 1136 | 1250                                                                         | 20.8                                            | 1028                                                               | 1028                                                              | 11300                                                        | .50                                      | --                                                                           | 6.4                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1137 | 1250                                                                         | 20.3                                            | 1028                                                               | 1028                                                              | 15500                                                        | 1.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1138 | 1250                                                                         | 20.4                                            | 1028                                                               | 1028                                                              | 15000                                                        | 1.1                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

| WATER-QUALITY DATA |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
|--------------------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
| OCT 1998           |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...              | 1021 | 23.6                                            | 1028                                                               | 1028                                                              | 33200                                                        | .30                                      | 2450                                                                         | 7.0                                            | 8.2                                                                  | 3.75                                                                        | 3.8                                                                     |
| 28...              | 1022 | 23.6                                            | 1028                                                               | 1028                                                              | 33200                                                        | .50                                      | --                                                                           | 7.2                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 28...              | 1023 | 23.5                                            | 1028                                                               | 1028                                                              | 33800                                                        | 1.0                                      | --                                                                           | 7.0                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 28...              | 1024 | 23.5                                            | 1028                                                               | 1028                                                              | 34200                                                        | 1.5                                      | --                                                                           | 6.7                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...              | 1025 | 23.6                                            | 1028                                                               | 1028                                                              | 34500                                                        | 2.0                                      | --                                                                           | 6.3                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...              | 1026 | 23.9                                            | 1028                                                               | 1028                                                              | 35400                                                        | 2.5                                      | --                                                                           | 5.9                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...              | 1027 | 23.9                                            | 1028                                                               | 1028                                                              | 35500                                                        | 3.0                                      | --                                                                           | 5.6                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...              | 1028 | 24.0                                            | 1028                                                               | 1028                                                              | 35800                                                        | 3.5                                      | --                                                                           | 5.2                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...              | 0931 | 23.7                                            | 1028                                                               | 1028                                                              | 32800                                                        | .30                                      | --                                                                           | 7.0                                            | 8.1                                                                  | 4.15                                                                        | --                                                                      |
| 29...              | 0932 | 23.7                                            | 1028                                                               | 1028                                                              | 32700                                                        | .50                                      | --                                                                           | 7.0                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 29...              | 0933 | 23.6                                            | 1028                                                               | 1028                                                              | 32500                                                        | 1.0                                      | --                                                                           | 7.0                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...              | 0934 | 23.6                                            | 1028                                                               | 1028                                                              | 33200                                                        | 1.5                                      | --                                                                           | 6.9                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...              | 0935 | 23.4                                            | 1028                                                               | 1028                                                              | 34000                                                        | 2.0                                      | --                                                                           | 6.8                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...              | 0936 | 23.8                                            | 1028                                                               | 1028                                                              | 34700                                                        | 2.5                                      | --                                                                           | 6.4                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 29...              | 0937 | 24.1                                            | 1028                                                               | 1028                                                              | 36900                                                        | 3.0                                      | --                                                                           | 5.0                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 29...              | 0938 | 24.1                                            | 1028                                                               | 1028                                                              | 36500                                                        | 3.5                                      | --                                                                           | 4.9                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 29...              | 0939 | 24.1                                            | 1028                                                               | 1028                                                              | 37000                                                        | 4.0                                      | --                                                                           | 4.9                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| NOV                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 17...              | 1023 | 25.5                                            | 1028                                                               | 1028                                                              | 33200                                                        | .30                                      | 2450                                                                         | 8.8                                            | 8.2                                                                  | 3.85                                                                        | 3.2                                                                     |
| 17...              | 1024 | 25.1                                            | 1028                                                               | 1028                                                              | 33300                                                        | .50                                      | --                                                                           | 8.9                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 17...              | 1025 | 24.8                                            | 1028                                                               | 1028                                                              | 33700                                                        | 1.0                                      | --                                                                           | 8.3                                            | 8.2                                                                  | --                                                                          | --                                                                      |
| 17...              | 1026 | 24.2                                            | 1028                                                               | 1028                                                              | 34900                                                        | 1.5                                      | --                                                                           | 6.0                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 17...              | 1027 | 24.0                                            | 1028                                                               | 1028                                                              | 36500                                                        | 2.0                                      | --                                                                           | 4.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 17...              | 1028 | 23.6                                            | 1028                                                               | 1028                                                              | 37900                                                        | 2.5                                      | --                                                                           | 3.0                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 17...              | 1029 | 23.6                                            | 1028                                                               | 1028                                                              | 38200                                                        | 3.0                                      | --                                                                           | 2.6                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 17...              | 1030 | 23.5                                            | 1028                                                               | 1028                                                              | 38300                                                        | 3.5                                      | --                                                                           | 2.4                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 18...              | 0916 | 24.4                                            | 1028                                                               | 1028                                                              | 34900                                                        | .30                                      | --                                                                           | 5.1                                            | 7.8                                                                  | 3.75                                                                        | --                                                                      |
| 18...              | 0917 | 24.4                                            | 1028                                                               | 1028                                                              | 34900                                                        | .50                                      | --                                                                           | 5.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 18...              | 0918 | 24.4                                            | 1028                                                               | 1028                                                              | 34800                                                        | 1.0                                      | --                                                                           | 4.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 18...              | 0919 | 24.4                                            | 1028                                                               | 1028                                                              | 35000                                                        | 1.5                                      | --                                                                           | 4.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 18...              | 0920 | 24.3                                            | 1028                                                               | 1028                                                              | 35100                                                        | 2.0                                      | --                                                                           | 4.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 18...              | 0921 | 24.3                                            | 1028                                                               | 1028                                                              | 35500                                                        | 2.5                                      | --                                                                           | 4.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 18...              | 0923 | 23.9                                            | 1028                                                               | 1028                                                              | 38100                                                        | 3.0                                      | --                                                                           | 2.3                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 18...              | 0924 | 23.9                                            | 1028                                                               | 1028                                                              | 38700                                                        | 3.5                                      | --                                                                           | 2.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DEC 1998 |      |                                        |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 28...    | 1116 | 21.4                                   | 1028                                                               | 1028                                                              | --                                                                         | 39900                                                        | .30                                      | 1300                                                                         | 7.3                                            | 8.0                                                                  | 4.05                                                                        |
| 28...    | 1117 | 21.4                                   | 1028                                                               | 1028                                                              | --                                                                         | 39900                                                        | .50                                      | --                                                                           | 7.3                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1118 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39600                                                        | 1.0                                      | --                                                                           | 7.3                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1119 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39400                                                        | 1.5                                      | --                                                                           | 7.2                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1121 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39900                                                        | 2.0                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1122 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39600                                                        | 2.5                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1123 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 40000                                                        | 3.0                                      | --                                                                           | 7.0                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1124 | 21.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 40200                                                        | 3.5                                      | --                                                                           | 7.0                                            | 8.0                                                                  | --                                                                          |
| 28...    | 1125 | 21.3                                   | 1028                                                               | 1028                                                              | 2.6                                                                        | 40000                                                        | 3.9                                      | --                                                                           | 7.0                                            | 8.0                                                                  | --                                                                          |
| JAN 1999 |      |                                        |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 25...    | 1032 | 20.7                                   | 1028                                                               | 1028                                                              | --                                                                         | 40000                                                        | .30                                      | 2440                                                                         | 7.0                                            | 7.9                                                                  | 3.65                                                                        |
| 25...    | 1033 | 20.7                                   | 1028                                                               | 1028                                                              | --                                                                         | 40000                                                        | .50                                      | --                                                                           | 7.0                                            | 7.9                                                                  | --                                                                          |
| 25...    | 1034 | 20.7                                   | 1028                                                               | 1028                                                              | --                                                                         | 40000                                                        | 1.0                                      | --                                                                           | 6.9                                            | 7.9                                                                  | --                                                                          |
| 25...    | 1035 | 20.7                                   | 1028                                                               | 1028                                                              | --                                                                         | 40000                                                        | 1.5                                      | --                                                                           | 6.9                                            | 7.9                                                                  | --                                                                          |
| 25...    | 1036 | 20.6                                   | 1028                                                               | 1028                                                              | --                                                                         | 40100                                                        | 2.0                                      | --                                                                           | 6.9                                            | 8.0                                                                  | --                                                                          |
| 25...    | 1037 | 20.6                                   | 1028                                                               | 1028                                                              | --                                                                         | 40200                                                        | 2.5                                      | --                                                                           | 6.9                                            | 8.0                                                                  | --                                                                          |
| 25...    | 1038 | 20.8                                   | 1028                                                               | 1028                                                              | --                                                                         | 41700                                                        | 3.0                                      | --                                                                           | 6.4                                            | 8.0                                                                  | --                                                                          |
| 25...    | 1039 | 20.8                                   | 1028                                                               | 1028                                                              | 3.7                                                                        | 41700                                                        | 3.5                                      | --                                                                           | 6.3                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0932 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39900                                                        | .30                                      | --                                                                           | 7.2                                            | 8.0                                                                  | 3.75                                                                        |
| 26...    | 0933 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 38200                                                        | .50                                      | --                                                                           | 7.2                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0934 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39700                                                        | 1.0                                      | --                                                                           | 7.2                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0935 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 37500                                                        | 1.5                                      | --                                                                           | 7.2                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0936 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39700                                                        | 2.0                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0937 | 20.3                                   | 1028                                                               | 1028                                                              | --                                                                         | 39200                                                        | 2.5                                      | --                                                                           | 7.1                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0938 | 20.8                                   | 1028                                                               | 1028                                                              | --                                                                         | 41400                                                        | 3.0                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 26...    | 0939 | 20.8                                   | 1028                                                               | 1028                                                              | --                                                                         | 41500                                                        | 3.5                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

| WATER-QUALITY DATA |      |                                                 |         |                                       |         |                                             |                                          |                               |                                                |                                     |                                                 |
|--------------------|------|-------------------------------------------------|---------|---------------------------------------|---------|---------------------------------------------|------------------------------------------|-------------------------------|------------------------------------------------|-------------------------------------|-------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY  | AGENCY                                | LIGHT   | SPE-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT                         | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH                                  | DEPTH                                           |
|                    |      |                                                 | COL-    | ANA-                                  | INCI-   |                                             |                                          | INCID.                        |                                                | WATER                               | TO BOT.                                         |
|                    |      |                                                 | LECTING | LYZING                                | DENT    |                                             |                                          | 400-                          |                                                | WHOLE                               | FROM                                            |
|                    |      |                                                 | (CODE   | (CODE                                 | PERCENT |                                             |                                          | 700NM                         |                                                | (STAND-<br>ARD<br>UNITS)<br>(00400) | SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|                    |      | (00027)                                         | (00028) | REMAIN-<br>ING AT<br>DEPTH<br>(00031) |         |                                             |                                          | (U-EINS<br>/SQM/S)<br>(00200) |                                                |                                     |                                                 |
| FEB 1999           |      |                                                 |         |                                       |         |                                             |                                          |                               |                                                |                                     |                                                 |
| 22...              | 1020 | 18.2                                            | 1028    | 1028                                  | --      | 37100                                       | .30                                      | 2610                          | 7.3                                            | 7.9                                 | 3.55                                            |
| 22...              | 1021 | 18.2                                            | 1028    | 1028                                  | --      | 37000                                       | .50                                      | --                            | 7.3                                            | 7.9                                 | --                                              |
| 22...              | 1022 | 18.2                                            | 1028    | 1028                                  | --      | 37100                                       | 1.0                                      | --                            | 7.3                                            | 7.9                                 | --                                              |
| 22...              | 1023 | 18.3                                            | 1028    | 1028                                  | --      | 37200                                       | 1.5                                      | --                            | 7.2                                            | 7.9                                 | --                                              |
| 22...              | 1024 | 18.3                                            | 1028    | 1028                                  | --      | 37500                                       | 2.0                                      | --                            | 7.2                                            | 8.0                                 | --                                              |
| 22...              | 1025 | 18.6                                            | 1028    | 1028                                  | --      | 39100                                       | 2.5                                      | --                            | 7.1                                            | 8.0                                 | --                                              |
| 22...              | 1026 | 18.9                                            | 1028    | 1028                                  | --      | 39800                                       | 3.0                                      | --                            | 7.0                                            | 8.0                                 | --                                              |
| 22...              | 1027 | 18.9                                            | 1028    | 1028                                  | 3.1     | 39900                                       | 3.4                                      | --                            | 6.9                                            | 8.0                                 | --                                              |
| 23...              | 0910 | 17.5                                            | 1028    | 1028                                  | --      | 39300                                       | .30                                      | --                            | 7.7                                            | 8.1                                 | 3.85                                            |
| 23...              | 0911 | 17.5                                            | 1028    | 1028                                  | --      | 39300                                       | .50                                      | --                            | 7.7                                            | 8.1                                 | --                                              |
| 23...              | 0912 | 17.6                                            | 1028    | 1028                                  | --      | 39300                                       | 1.0                                      | --                            | 7.7                                            | 8.1                                 | --                                              |
| 23...              | 0913 | 17.5                                            | 1028    | 1028                                  | --      | 39300                                       | 1.5                                      | --                            | 7.6                                            | 8.1                                 | --                                              |
| 23...              | 0914 | 17.7                                            | 1028    | 1028                                  | --      | 39400                                       | 2.0                                      | --                            | 7.6                                            | 8.1                                 | --                                              |
| 23...              | 0915 | 18.1                                            | 1028    | 1028                                  | --      | 39900                                       | 2.5                                      | --                            | 7.3                                            | 8.1                                 | --                                              |
| 23...              | 0916 | 18.1                                            | 1028    | 1028                                  | --      | 39900                                       | 3.0                                      | --                            | 7.3                                            | 8.1                                 | --                                              |
| 23...              | 0917 | 18.1                                            | 1028    | 1028                                  | --      | 40000                                       | 3.5                                      | --                            | 7.3                                            | 8.1                                 | --                                              |
| 23...              | 0918 | 18.1                                            | 1028    | 1028                                  | --      | 40000                                       | 3.7                                      | --                            | 7.3                                            | 8.1                                 | --                                              |
| MAR                |      |                                                 |         |                                       |         |                                             |                                          |                               |                                                |                                     |                                                 |
| 22...              | 1035 | 21.4                                            | 1028    | 1028                                  | --      | 41200                                       | .30                                      | 2520                          | 6.7                                            | 8.0                                 | 3.65                                            |
| 22...              | 1036 | 21.4                                            | 1028    | 1028                                  | --      | 41200                                       | .50                                      | --                            | 6.7                                            | 8.0                                 | --                                              |
| 22...              | 1037 | 21.4                                            | 1028    | 1028                                  | --      | 41400                                       | 1.0                                      | --                            | 6.7                                            | 8.0                                 | --                                              |
| 22...              | 1038 | 21.3                                            | 1028    | 1028                                  | --      | 41400                                       | 1.5                                      | --                            | 6.7                                            | 8.0                                 | --                                              |
| 22...              | 1039 | 21.3                                            | 1028    | 1028                                  | --      | 41500                                       | 2.0                                      | --                            | 6.6                                            | 8.0                                 | --                                              |
| 22...              | 1040 | 21.2                                            | 1028    | 1028                                  | --      | 41200                                       | 2.5                                      | --                            | 6.6                                            | 8.0                                 | --                                              |
| 22...              | 1041 | 21.2                                            | 1028    | 1028                                  | --      | 42000                                       | 3.0                                      | --                            | 6.4                                            | 8.0                                 | --                                              |
| 22...              | 1042 | 21.3                                            | 1028    | 1028                                  | 1.5     | 42400                                       | 3.5                                      | --                            | 6.2                                            | 8.0                                 | --                                              |
| 23...              | 0911 | 20.9                                            | 1028    | 1028                                  | --      | 42300                                       | .30                                      | --                            | 7.0                                            | 8.0                                 | 3.75                                            |
| 23...              | 0912 | 20.9                                            | 1028    | 1028                                  | --      | 42200                                       | .50                                      | --                            | 6.9                                            | 8.0                                 | --                                              |
| 23...              | 0913 | 20.9                                            | 1028    | 1028                                  | --      | 42200                                       | 1.0                                      | --                            | 6.9                                            | 8.0                                 | --                                              |
| 23...              | 0914 | 20.9                                            | 1028    | 1028                                  | --      | 42300                                       | 1.5                                      | --                            | 6.9                                            | 8.0                                 | --                                              |
| 23...              | 0915 | 20.9                                            | 1028    | 1028                                  | --      | 42200                                       | 2.0                                      | --                            | 6.8                                            | 8.0                                 | --                                              |
| 23...              | 0916 | 20.9                                            | 1028    | 1028                                  | --      | 42200                                       | 2.5                                      | --                            | 6.8                                            | 8.0                                 | --                                              |
| 23...              | 0917 | 20.9                                            | 1028    | 1028                                  | --      | 42300                                       | 3.0                                      | --                            | 6.8                                            | 8.0                                 | --                                              |
| 23...              | 0918 | 20.9                                            | 1028    | 1028                                  | --      | 42200                                       | 3.5                                      | --                            | 6.8                                            | 8.0                                 | --                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 19...    | 0911 | 23.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 44500                                                        | .30                                      | 2330                                                                         | 6.6                                            | 8.0                                                                  | 3.65                                                                        |
| 19...    | 0912 | 23.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 44600                                                        | .50                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0913 | 23.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 44500                                                        | 1.0                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0914 | 23.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 44700                                                        | 1.5                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0915 | 23.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 44800                                                        | 2.0                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0916 | 23.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 44800                                                        | 2.5                                      | --                                                                           | 6.4                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0917 | 23.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 44600                                                        | 3.0                                      | --                                                                           | 6.4                                            | 8.0                                                                  | --                                                                          |
| 19...    | 0918 | 23.3                                            | 1028                                                               | 1028                                                              | 2.7                                                                        | 44600                                                        | 3.5                                      | --                                                                           | 6.4                                            | 8.0                                                                  | --                                                                          |
| 20...    | 0805 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44600                                                        | .30                                      | --                                                                           | 6.6                                            | 8.0                                                                  | 3.75                                                                        |
| 20...    | 0806 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44600                                                        | .50                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 20...    | 0807 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44600                                                        | 1.0                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 20...    | 0808 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44500                                                        | 1.5                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          |
| 20...    | 0809 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44700                                                        | 2.0                                      | --                                                                           | 6.6                                            | 8.1                                                                  | --                                                                          |
| 20...    | 0810 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44700                                                        | 2.5                                      | --                                                                           | 6.6                                            | 8.1                                                                  | --                                                                          |
| 20...    | 0811 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44700                                                        | 3.0                                      | --                                                                           | 6.6                                            | 8.1                                                                  | --                                                                          |
| 20...    | 0812 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 44700                                                        | 3.5                                      | --                                                                           | 6.6                                            | 8.1                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 25...    | 0951 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45800                                                        | .30                                      | 2940                                                                         | 6.9                                            | 7.9                                                                  | 4.05                                                                        |
| 25...    | 0952 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45900                                                        | .50                                      | --                                                                           | 6.9                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0953 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45900                                                        | 1.0                                      | --                                                                           | 6.9                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0954 | 28.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 46000                                                        | 1.5                                      | --                                                                           | 6.9                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0955 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 47200                                                        | 2.0                                      | --                                                                           | 6.7                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0956 | 28.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 47500                                                        | 2.5                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0957 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 47700                                                        | 3.0                                      | --                                                                           | 5.7                                            | 8.0                                                                  | --                                                                          |
| 25...    | 0958 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 47800                                                        | 3.5                                      | --                                                                           | 5.3                                            | 7.9                                                                  | --                                                                          |
| 25...    | 0959 | 27.9                                            | 1028                                                               | 1028                                                              | 4.2                                                                        | 47800                                                        | 3.9                                      | --                                                                           | 5.2                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0820 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 45600                                                        | .30                                      | --                                                                           | 6.4                                            | 8.1                                                                  | 3.95                                                                        |
| 26...    | 0821 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 45400                                                        | .50                                      | --                                                                           | 6.3                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0822 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 45900                                                        | 1.0                                      | --                                                                           | 6.3                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0823 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 46100                                                        | 1.5                                      | --                                                                           | 6.2                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0824 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 46100                                                        | 2.0                                      | --                                                                           | 6.1                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0825 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 46400                                                        | 2.5                                      | --                                                                           | 5.8                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0826 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 47000                                                        | 3.0                                      | --                                                                           | 5.7                                            | 8.1                                                                  | --                                                                          |
| 26...    | 0827 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 48000                                                        | 3.5                                      | --                                                                           | 4.1                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0828 | 28.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 48200                                                        | 3.8                                      | --                                                                           | 4.0                                            | 7.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |
| 22...    | 0921 | 28.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 34700                                                        | .30                                      | 2640                                                                         | 4.5                                            | 8.0                                                                  | 4.15                                                                        |
| 22...    | 0922 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 34800                                                        | .50                                      | --                                                                           | 4.4                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0923 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 38500                                                        | 1.0                                      | --                                                                           | 4.5                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0924 | 27.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 42000                                                        | 1.5                                      | --                                                                           | 4.4                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0925 | 27.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 43000                                                        | 2.0                                      | --                                                                           | 4.3                                            | 8.1                                                                  | --                                                                          |
| 22...    | 0926 | 28.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 43900                                                        | 2.5                                      | --                                                                           | 4.0                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0927 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 45200                                                        | 3.0                                      | --                                                                           | 3.5                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0928 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 45400                                                        | 3.5                                      | --                                                                           | 3.4                                            | 8.0                                                                  | --                                                                          |
| 22...    | 0929 | 28.4                                            | 1028                                                               | 1028                                                              | 3.0                                                                        | 45400                                                        | 4.0                                      | --                                                                           | 3.4                                            | 8.0                                                                  | --                                                                          |
| 23...    | 0801 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 34400                                                        | .30                                      | --                                                                           | 7.1                                            | 7.8                                                                  | 4.15                                                                        |
| 23...    | 0802 | 27.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 35400                                                        | .50                                      | --                                                                           | 7.0                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0803 | 28.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 36600                                                        | 1.0                                      | --                                                                           | 6.7                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0804 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 37800                                                        | 1.5                                      | --                                                                           | 5.4                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0805 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 42600                                                        | 2.0                                      | --                                                                           | 4.6                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0806 | 28.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 45700                                                        | 2.5                                      | --                                                                           | 4.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0807 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45400                                                        | 3.0                                      | --                                                                           | 4.7                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0808 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45400                                                        | 3.5                                      | --                                                                           | 4.6                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0809 | 28.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 45400                                                        | 4.0                                      | --                                                                           | 4.6                                            | 7.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUL 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 27...    | 0900 | 31.7                                            | 1028                                                               | 1028                                                              | 19700                                                        | .30                                      | 2360                                                                         | 7.5                                            | 8.2                                                                  | 4.05                                                                        | 1.7                                                                     |
| 27...    | 0901 | 31.6                                            | 1028                                                               | 1028                                                              | 22200                                                        | .50                                      | --                                                                           | 6.9                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 0902 | 31.2                                            | 1028                                                               | 1028                                                              | 23700                                                        | 1.0                                      | --                                                                           | 5.6                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 27...    | 0903 | 31.4                                            | 1028                                                               | 1028                                                              | 26200                                                        | 1.5                                      | --                                                                           | 3.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 27...    | 0904 | 30.6                                            | 1028                                                               | 1028                                                              | 31600                                                        | 2.0                                      | --                                                                           | 1.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 27...    | 0905 | 30.7                                            | 1028                                                               | 1028                                                              | 32100                                                        | 2.5                                      | --                                                                           | .5                                             | 7.7                                                                  | --                                                                          | --                                                                      |
| 27...    | 0906 | 30.5                                            | 1028                                                               | 1028                                                              | 32300                                                        | 3.0                                      | --                                                                           | .2                                             | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 0907 | 30.1                                            | 1028                                                               | 1028                                                              | 33700                                                        | 3.5                                      | --                                                                           | .2                                             | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 0908 | 30.1                                            | 1028                                                               | 1028                                                              | 33700                                                        | 3.9                                      | --                                                                           | .2                                             | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0833 | 31.5                                            | 1028                                                               | 1028                                                              | 20000                                                        | .30                                      | --                                                                           | 7.4                                            | 8.1                                                                  | 3.95                                                                        | --                                                                      |
| 28...    | 0834 | 31.5                                            | 1028                                                               | 1028                                                              | 20400                                                        | .50                                      | --                                                                           | 7.0                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 0835 | 31.6                                            | 1028                                                               | 1028                                                              | 23300                                                        | 1.0                                      | --                                                                           | 5.5                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 28...    | 0836 | 31.4                                            | 1028                                                               | 1028                                                              | 25600                                                        | 1.5                                      | --                                                                           | 2.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 28...    | 0837 | 31.2                                            | 1028                                                               | 1028                                                              | 31700                                                        | 2.0                                      | --                                                                           | .3                                             | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0838 | 30.4                                            | 1028                                                               | 1028                                                              | 32800                                                        | 2.5                                      | --                                                                           | .2                                             | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0840 | 30.4                                            | 1028                                                               | 1028                                                              | 33700                                                        | 3.0                                      | --                                                                           | .2                                             | 7.5                                                                  | --                                                                          | --                                                                      |
| 28...    | 0841 | 30.4                                            | 1028                                                               | 1028                                                              | 34100                                                        | 3.5                                      | --                                                                           | .2                                             | 7.5                                                                  | --                                                                          | --                                                                      |
| 28...    | 0842 | 30.4                                            | 1028                                                               | 1028                                                              | 33900                                                        | 3.8                                      | --                                                                           | .2                                             | 7.5                                                                  | --                                                                          | --                                                                      |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| AUG 1999 |      |                                        |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 23...    | 0938 | 29.1                                   | 1028                                                                | 1028                                                               | 24400                                                           | .30                                       | 2570                                                               | 7.3                                             | 7.9                                                                   | 4.15                                                                        | 2.0                                                                     |
| 23...    | 0939 | 29.1                                   | 1028                                                                | 1028                                                               | 24300                                                           | .50                                       | --                                                                 | 7.2                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 23...    | 0940 | 29.1                                   | 1028                                                                | 1028                                                               | 24400                                                           | 1.0                                       | --                                                                 | 7.0                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 23...    | 0941 | 29.1                                   | 1028                                                                | 1028                                                               | 24500                                                           | 1.5                                       | --                                                                 | 7.0                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 23...    | 0942 | 29.1                                   | 1028                                                                | 1028                                                               | 24500                                                           | 2.0                                       | --                                                                 | 6.8                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 23...    | 0943 | 29.1                                   | 1028                                                                | 1028                                                               | 24900                                                           | 2.5                                       | --                                                                 | 6.6                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 23...    | 0944 | 29.6                                   | 1028                                                                | 1028                                                               | 28800                                                           | 3.0                                       | --                                                                 | 1.7                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 23...    | 0945 | 29.8                                   | 1028                                                                | 1028                                                               | 31500                                                           | 3.5                                       | --                                                                 | .7                                              | 7.6                                                                   | --                                                                          | --                                                                      |
| 23...    | 0946 | 29.9                                   | 1028                                                                | 1028                                                               | 33700                                                           | 4.0                                       | --                                                                 | .3                                              | 7.5                                                                   | --                                                                          | --                                                                      |
| 24...    | 0744 | 28.6                                   | 1028                                                                | 1028                                                               | 16600                                                           | .30                                       | --                                                                 | 6.3                                             | 7.6                                                                   | 4.05                                                                        | --                                                                      |
| 24...    | 0745 | 28.6                                   | 1028                                                                | 1028                                                               | 17600                                                           | .50                                       | --                                                                 | 6.6                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 24...    | 0746 | 28.7                                   | 1028                                                                | 1028                                                               | 20300                                                           | 1.0                                       | --                                                                 | 7.2                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 24...    | 0747 | 28.5                                   | 1028                                                                | 1028                                                               | 22000                                                           | 1.5                                       | --                                                                 | 6.8                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 24...    | 0748 | 28.6                                   | 1028                                                                | 1028                                                               | 22600                                                           | 2.0                                       | --                                                                 | 6.6                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 24...    | 0749 | 29.1                                   | 1028                                                                | 1028                                                               | 28600                                                           | 2.5                                       | --                                                                 | 4.3                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 24...    | 0750 | 29.1                                   | 1028                                                                | 1028                                                               | 30200                                                           | 3.0                                       | --                                                                 | 4.2                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 24...    | 0751 | 29.3                                   | 1028                                                                | 1028                                                               | 30500                                                           | 3.5                                       | --                                                                 | 3.4                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 24...    | 0752 | 29.7                                   | 1028                                                                | 1028                                                               | 32800                                                           | 3.9                                       | --                                                                 | .4                                              | 7.6                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| SEP 1999 |      |                                        |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 23...    | 0901 | 25.9                                   | 1028                                                                | 1028                                                               | 24100                                                           | .30                                       | 2480                                                               | 6.7                                             | 7.6                                                                   | 3.95                                                                        | 2.4                                                                     |
| 23...    | 0902 | 25.9                                   | 1028                                                                | 1028                                                               | 24100                                                           | .50                                       | --                                                                 | 6.6                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 23...    | 0903 | 25.9                                   | 1028                                                                | 1028                                                               | 24500                                                           | 1.0                                       | --                                                                 | 6.5                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 23...    | 0904 | 25.9                                   | 1028                                                                | 1028                                                               | 26100                                                           | 1.5                                       | --                                                                 | 6.4                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 23...    | 0905 | 26.1                                   | 1028                                                                | 1028                                                               | 27600                                                           | 2.0                                       | --                                                                 | 6.0                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 23...    | 0906 | 27.1                                   | 1028                                                                | 1028                                                               | 36800                                                           | 2.5                                       | --                                                                 | 3.9                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 23...    | 0907 | 27.2                                   | 1028                                                                | 1028                                                               | 38000                                                           | 3.0                                       | --                                                                 | 3.8                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 23...    | 0908 | 27.2                                   | 1028                                                                | 1028                                                               | 38000                                                           | 3.5                                       | --                                                                 | 3.7                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 23...    | 0909 | 27.2                                   | 1028                                                                | 1028                                                               | 38000                                                           | 3.8                                       | --                                                                 | 3.7                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 24...    | 0822 | 26.1                                   | 1028                                                                | 1028                                                               | 25500                                                           | .30                                       | --                                                                 | 6.7                                             | 7.4                                                                   | 3.95                                                                        | --                                                                      |
| 24...    | 0823 | 26.0                                   | 1028                                                                | 1028                                                               | 26500                                                           | .50                                       | --                                                                 | 6.5                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 24...    | 0824 | 26.0                                   | 1028                                                                | 1028                                                               | 27300                                                           | 1.0                                       | --                                                                 | 6.1                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 24...    | 0825 | 26.0                                   | 1028                                                                | 1028                                                               | 28600                                                           | 1.5                                       | --                                                                 | 5.4                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 24...    | 0826 | 27.0                                   | 1028                                                                | 1028                                                               | 33800                                                           | 2.0                                       | --                                                                 | 3.6                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 24...    | 0827 | 27.1                                   | 1028                                                                | 1028                                                               | 36200                                                           | 2.5                                       | --                                                                 | 3.2                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 24...    | 0828 | 27.1                                   | 1028                                                                | 1028                                                               | 36400                                                           | 3.0                                       | --                                                                 | 3.2                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 24...    | 0829 | 27.1                                   | 1028                                                                | 1028                                                               | 36500                                                           | 3.5                                       | --                                                                 | 3.1                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 24...    | 0830 | 27.1                                   | 1028                                                                | 1028                                                               | 36800                                                           | 3.8                                       | --                                                                 | 3.1                                             | 7.8                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| OCT 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 19...    | 1010 | 25.8                                            | 1028                                                               | 1028                                                              | 27700                                                        | .30                                      | 2640                                                                         | 6.8                                            | 8.0                                                                  | 4.05                                                                        | 2.2                                                                     |
| 19...    | 1011 | 25.8                                            | 1028                                                               | 1028                                                              | 27700                                                        | .50                                      | --                                                                           | 6.8                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 19...    | 1012 | 25.7                                            | 1028                                                               | 1028                                                              | 27700                                                        | 1.0                                      | --                                                                           | 6.8                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1013 | 25.6                                            | 1028                                                               | 1028                                                              | 27900                                                        | 1.5                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 19...    | 1014 | 25.5                                            | 1028                                                               | 1028                                                              | 28100                                                        | 2.0                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 19...    | 1015 | 25.3                                            | 1028                                                               | 1028                                                              | 28900                                                        | 2.5                                      | --                                                                           | 6.3                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 19...    | 1016 | 25.5                                            | 1028                                                               | 1028                                                              | 29900                                                        | 3.0                                      | --                                                                           | 4.4                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 19...    | 1017 | 26.1                                            | 1028                                                               | 1028                                                              | 39700                                                        | 3.5                                      | --                                                                           | 2.9                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 19...    | 1018 | 26.1                                            | 1028                                                               | 1028                                                              | 40100                                                        | 3.9                                      | --                                                                           | 2.8                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 0930 | 26.2                                            | 1028                                                               | 1028                                                              | 25400                                                        | .30                                      | --                                                                           | 7.4                                            | 7.8                                                                  | 3.95                                                                        | --                                                                      |
| 20...    | 0931 | 26.2                                            | 1028                                                               | 1028                                                              | 25400                                                        | .50                                      | --                                                                           | 7.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0932 | 26.0                                            | 1028                                                               | 1028                                                              | 26200                                                        | 1.0                                      | --                                                                           | 7.2                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0933 | 25.9                                            | 1028                                                               | 1028                                                              | 26500                                                        | 1.5                                      | --                                                                           | 7.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 0934 | 25.9                                            | 1028                                                               | 1028                                                              | 26800                                                        | 2.0                                      | --                                                                           | 7.0                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 0935 | 25.8                                            | 1028                                                               | 1028                                                              | 26800                                                        | 2.5                                      | --                                                                           | 3.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0936 | 26.1                                            | 1028                                                               | 1028                                                              | 36600                                                        | 3.0                                      | --                                                                           | 3.5                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 20...    | 0937 | 26.2                                            | 1028                                                               | 1028                                                              | 40200                                                        | 3.5                                      | --                                                                           | 2.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 20...    | 0938 | 26.2                                            | 1028                                                               | 1028                                                              | 40200                                                        | 3.8                                      | --                                                                           | 2.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| NOV 1999 |      |                                        |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 16...    | 0931 | 21.5                                   | 1028                                                                | 1028                                                               | 37100                                                           | .30                                       | 2240                                                               | 6.9                                             | 7.9                                                                   | 4.05                                                                        | 3.3                                                                     |
| 16...    | 0932 | 21.5                                   | 1028                                                                | 1028                                                               | 37200                                                           | .50                                       | --                                                                 | 6.9                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0933 | 21.5                                   | 1028                                                                | 1028                                                               | 37300                                                           | 1.0                                       | --                                                                 | 6.9                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0934 | 21.5                                   | 1028                                                                | 1028                                                               | 37200                                                           | 1.5                                       | --                                                                 | 6.8                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0935 | 22.4                                   | 1028                                                                | 1028                                                               | 41500                                                           | 2.0                                       | --                                                                 | 5.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0936 | 22.4                                   | 1028                                                                | 1028                                                               | 41700                                                           | 2.5                                       | --                                                                 | 5.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0937 | 22.4                                   | 1028                                                                | 1028                                                               | 41600                                                           | 3.0                                       | --                                                                 | 5.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0938 | 22.4                                   | 1028                                                                | 1028                                                               | 41900                                                           | 3.5                                       | --                                                                 | 5.6                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 16...    | 0939 | 22.4                                   | 1028                                                                | 1028                                                               | 41500                                                           | 3.9                                       | --                                                                 | 5.6                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0911 | 21.1                                   | 1028                                                                | 1028                                                               | 39100                                                           | .30                                       | --                                                                 | 6.6                                             | 7.9                                                                   | 3.95                                                                        | --                                                                      |
| 17...    | 0912 | 21.1                                   | 1028                                                                | 1028                                                               | 39600                                                           | .50                                       | --                                                                 | 6.5                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0913 | 21.1                                   | 1028                                                                | 1028                                                               | 39700                                                           | 1.0                                       | --                                                                 | 6.4                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0914 | 21.1                                   | 1028                                                                | 1028                                                               | 39300                                                           | 1.5                                       | --                                                                 | 6.4                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0915 | 21.1                                   | 1028                                                                | 1028                                                               | 39100                                                           | 2.0                                       | --                                                                 | 6.4                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0916 | 21.2                                   | 1028                                                                | 1028                                                               | 39300                                                           | 2.5                                       | --                                                                 | 6.3                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 17...    | 0917 | 21.2                                   | 1028                                                                | 1028                                                               | 39300                                                           | 3.0                                       | --                                                                 | 6.3                                             | 8.0                                                                   | --                                                                          | --                                                                      |
| 17...    | 0918 | 21.3                                   | 1028                                                                | 1028                                                               | 39700                                                           | 3.5                                       | --                                                                 | 6.0                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 0919 | 22.1                                   | 1028                                                                | 1028                                                               | 40600                                                           | 3.8                                       | --                                                                 | 4.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1999 |      |                                        |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 20...    | 0912 | 19.8                                   | 1028                                                                | 1028                                                               | 42200                                                           | .30                                       | 1480                                                               | 7.2                                             | 7.6                                                                   | 3.55                                                                        | 2.2                                                                     |
| 20...    | 0913 | 19.8                                   | 1028                                                                | 1028                                                               | 42200                                                           | .50                                       | --                                                                 | 7.2                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 20...    | 0914 | 19.8                                   | 1028                                                                | 1028                                                               | 42300                                                           | 1.0                                       | --                                                                 | 7.2                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 20...    | 0915 | 19.8                                   | 1028                                                                | 1028                                                               | 42100                                                           | 1.5                                       | --                                                                 | 7.1                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 20...    | 0916 | 19.8                                   | 1028                                                                | 1028                                                               | 42400                                                           | 2.0                                       | --                                                                 | 7.0                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 20...    | 0917 | 19.8                                   | 1028                                                                | 1028                                                               | 42700                                                           | 2.5                                       | --                                                                 | 6.8                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 20...    | 0918 | 19.8                                   | 1028                                                                | 1028                                                               | 44100                                                           | 3.0                                       | --                                                                 | 6.4                                             | 7.8                                                                   | --                                                                          | --                                                                      |
| 20...    | 0919 | 19.8                                   | 1028                                                                | 1028                                                               | 43900                                                           | 3.4                                       | --                                                                 | 6.4                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0941 | 20.1                                   | 1028                                                                | 1028                                                               | 42000                                                           | .30                                       | --                                                                 | 7.4                                             | 7.9                                                                   | 3.55                                                                        | --                                                                      |
| 21...    | 0942 | 20.0                                   | 1028                                                                | 1028                                                               | 41600                                                           | .50                                       | --                                                                 | 7.3                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0943 | 19.9                                   | 1028                                                                | 1028                                                               | 40800                                                           | 1.0                                       | --                                                                 | 7.3                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0944 | 19.9                                   | 1028                                                                | 1028                                                               | 42200                                                           | 1.5                                       | --                                                                 | 7.2                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0945 | 19.9                                   | 1028                                                                | 1028                                                               | 42800                                                           | 2.0                                       | --                                                                 | 6.9                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0946 | 19.9                                   | 1028                                                                | 1028                                                               | 42100                                                           | 2.5                                       | --                                                                 | 6.8                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0947 | 19.9                                   | 1028                                                                | 1028                                                               | 43100                                                           | 3.0                                       | --                                                                 | 6.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 21...    | 0948 | 19.9                                   | 1028                                                                | 1028                                                               | 42300                                                           | 3.4                                       | --                                                                 | 6.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE -<br>CIFIC<br>CON -<br>DUCT -<br>ANCE<br>(US/CM)<br>(00095) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400 -<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS -<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND -<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 28...    | 1135 | 24.1                                            | 1028                                                                | 1028                                                               | 25000                                                           | .30                                       | 3060                                                               | 7.9                                             | 8.3                                                                   | 2.95                                                                        | 2.1                                                                     |
| 28...    | 1136 | 24.2                                            | 1028                                                                | 1028                                                               | 24300                                                           | .50                                       | --                                                                 | 7.8                                             | 8.4                                                                   | --                                                                          | --                                                                      |
| 28...    | 1137 | 24.1                                            | 1028                                                                | 1028                                                               | 24600                                                           | 1.0                                       | --                                                                 | 7.7                                             | 8.4                                                                   | --                                                                          | --                                                                      |
| 28...    | 1138 | 24.0                                            | 1028                                                                | 1028                                                               | 25100                                                           | 1.5                                       | --                                                                 | 7.4                                             | 8.3                                                                   | --                                                                          | --                                                                      |
| 28...    | 1139 | 24.0                                            | 1028                                                                | 1028                                                               | 25400                                                           | 2.0                                       | --                                                                 | 7.4                                             | 8.3                                                                   | --                                                                          | --                                                                      |
| 28...    | 1140 | 24.0                                            | 1028                                                                | 1028                                                               | 25500                                                           | 2.5                                       | --                                                                 | 7.4                                             | 8.3                                                                   | --                                                                          | --                                                                      |
| 28...    | 1141 | 24.0                                            | 1028                                                                | 1028                                                               | 25600                                                           | 2.8                                       | --                                                                 | 7.3                                             | 8.3                                                                   | --                                                                          | --                                                                      |
| 29...    | 0954 | 23.6                                            | 1028                                                                | 1028                                                               | 23700                                                           | .30                                       | --                                                                 | 7.4                                             | 8.3                                                                   | 3.05                                                                        | --                                                                      |
| 29...    | 0955 | 23.6                                            | 1028                                                                | 1028                                                               | 24800                                                           | .50                                       | --                                                                 | 7.0                                             | 8.3                                                                   | --                                                                          | --                                                                      |
| 29...    | 0956 | 23.9                                            | 1028                                                                | 1028                                                               | 29000                                                           | 1.0                                       | --                                                                 | 5.8                                             | 8.1                                                                   | --                                                                          | --                                                                      |
| 29...    | 0957 | 24.2                                            | 1028                                                                | 1028                                                               | 33300                                                           | 1.5                                       | --                                                                 | 5.0                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 29...    | 0958 | 24.2                                            | 1028                                                                | 1028                                                               | 33800                                                           | 2.0                                       | --                                                                 | 4.8                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 29...    | 0959 | 24.2                                            | 1028                                                                | 1028                                                               | 34000                                                           | 2.5                                       | --                                                                 | 4.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 29...    | 1000 | 24.2                                            | 1028                                                                | 1028                                                               | 33600                                                           | 2.9                                       | --                                                                 | 4.7                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| NOV      |      |                                                 |                                                                     |                                                                    |                                                                 |                                           |                                                                    |                                                 |                                                                       |                                                                             |                                                                         |
| 17...    | 1141 | 25.5                                            | 1028                                                                | 1028                                                               | 23400                                                           | .30                                       | 2660                                                               | 8.1                                             | 7.9                                                                   | 2.95                                                                        | 1.9                                                                     |
| 17...    | 1142 | 25.4                                            | 1028                                                                | 1028                                                               | 23700                                                           | .50                                       | --                                                                 | 8.1                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 1143 | 24.9                                            | 1028                                                                | 1028                                                               | 26800                                                           | 1.0                                       | --                                                                 | 6.6                                             | 7.9                                                                   | --                                                                          | --                                                                      |
| 17...    | 1144 | 24.4                                            | 1028                                                                | 1028                                                               | 30300                                                           | 1.5                                       | --                                                                 | 5.3                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 17...    | 1145 | 24.4                                            | 1028                                                                | 1028                                                               | 30900                                                           | 2.0                                       | --                                                                 | 4.9                                             | 7.7                                                                   | --                                                                          | --                                                                      |
| 17...    | 1146 | 24.3                                            | 1028                                                                | 1028                                                               | 31900                                                           | 2.5                                       | --                                                                 | 4.2                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 17...    | 1147 | 24.3                                            | 1028                                                                | 1028                                                               | 32100                                                           | 2.8                                       | --                                                                 | 4.1                                             | 7.6                                                                   | --                                                                          | --                                                                      |
| 18...    | 0936 | 25.3                                            | 1028                                                                | 1028                                                               | 14300                                                           | .30                                       | --                                                                 | 6.3                                             | 7.5                                                                   | 3.05                                                                        | --                                                                      |
| 18...    | 0937 | 25.3                                            | 1028                                                                | 1028                                                               | 14200                                                           | .50                                       | --                                                                 | 6.2                                             | 7.5                                                                   | --                                                                          | --                                                                      |
| 18...    | 0938 | 25.1                                            | 1028                                                                | 1028                                                               | 16100                                                           | 1.0                                       | --                                                                 | 5.5                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 18...    | 0939 | 25.2                                            | 1028                                                                | 1028                                                               | 26000                                                           | 1.5                                       | --                                                                 | 4.2                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 18...    | 0940 | 24.9                                            | 1028                                                                | 1028                                                               | 27900                                                           | 2.0                                       | --                                                                 | 3.9                                             | 7.4                                                                   | --                                                                          | --                                                                      |
| 18...    | 0941 | 24.5                                            | 1028                                                                | 1028                                                               | 33000                                                           | 2.5                                       | --                                                                 | 1.7                                             | 7.3                                                                   | --                                                                          | --                                                                      |
| 18...    | 0942 | 24.5                                            | 1028                                                                | 1028                                                               | 34200                                                           | 2.9                                       | --                                                                 | 1.6                                             | 7.3                                                                   | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1998 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...    | 1240 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 28800                                                        | .30                                      | 910                                                                          | 9.0                                            | 8.2                                                                  | 3.15                                                                        | 2.7                                                                     |
| 28...    | 1241 | 21.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 29700                                                        | .50                                      | --                                                                           | 8.4                                            | 8.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 1242 | 21.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 35900                                                        | 1.0                                      | --                                                                           | 7.7                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 28...    | 1243 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 36900                                                        | 1.5                                      | --                                                                           | 6.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1244 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 37000                                                        | 2.0                                      | --                                                                           | 6.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 28...    | 1245 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 36900                                                        | 2.5                                      | --                                                                           | 5.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 28...    | 1246 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 38600                                                        | 3.0                                      | --                                                                           | 5.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 29...    | 0931 | 21.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 32900                                                        | .30                                      | --                                                                           | 6.9                                            | 8.0                                                                  | 2.75                                                                        | --                                                                      |
| 29...    | 0932 | 21.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 33800                                                        | .50                                      | --                                                                           | 6.6                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 29...    | 0933 | 21.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 33900                                                        | 1.0                                      | --                                                                           | 6.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 29...    | 0934 | 21.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 37000                                                        | 1.5                                      | --                                                                           | 5.6                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 29...    | 0935 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 37200                                                        | 2.0                                      | --                                                                           | 5.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 29...    | 0936 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 38100                                                        | 2.5                                      | --                                                                           | 5.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...    | 1210 | 21.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 25400                                                        | .30                                      | 2500                                                                         | 7.7                                            | 7.9                                                                  | 2.85                                                                        | --                                                                      |
| 25...    | 1211 | 21.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 25700                                                        | .50                                      | --                                                                           | 7.6                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1212 | 20.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 30100                                                        | 1.0                                      | --                                                                           | 7.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1213 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 37300                                                        | 1.5                                      | --                                                                           | 5.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 25...    | 1214 | 21.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 38000                                                        | 2.0                                      | --                                                                           | 5.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 25...    | 1215 | 21.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 38100                                                        | 2.5                                      | --                                                                           | 5.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 25...    | 1216 | 21.8                                            | 1028                                                               | 1028                                                              | 3.2                                                                        | 38100                                                        | 2.7                                      | --                                                                           | 5.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 26...    | 1001 | 20.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 34100                                                        | .30                                      | --                                                                           | 6.7                                            | 7.8                                                                  | 2.85                                                                        | --                                                                      |
| 26...    | 1002 | 20.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 34100                                                        | .50                                      | --                                                                           | 6.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 26...    | 1003 | 20.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 34100                                                        | 1.0                                      | --                                                                           | 6.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 26...    | 1004 | 20.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 34200                                                        | 1.5                                      | --                                                                           | 6.5                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 26...    | 1005 | 21.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 37100                                                        | 2.0                                      | --                                                                           | 5.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 26...    | 1006 | 21.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 37800                                                        | 2.5                                      | --                                                                           | 5.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 26...    | 1007 | 21.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 37800                                                        | 2.7                                      | --                                                                           | 5.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1151 | 18.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 27000                                                        | .30                                      | 2530                                                                         | 7.9                                            | 7.8                                                                  | 2.65                                                                        | --                                                                      |
| 22...    | 1152 | 18.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 26900                                                        | .50                                      | --                                                                           | 7.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1153 | 18.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 27100                                                        | 1.0                                      | --                                                                           | 7.7                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1154 | 18.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 28900                                                        | 1.5                                      | --                                                                           | 7.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1155 | 18.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 32100                                                        | 2.0                                      | --                                                                           | 7.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1156 | 18.9                                            | 1028                                                               | 1028                                                              | 2.2                                                                        | 33500                                                        | 2.5                                      | --                                                                           | 5.7                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 0931 | 16.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 31400                                                        | .30                                      | --                                                                           | 7.9                                            | 8.0                                                                  | 3.05                                                                        | --                                                                      |
| 23...    | 0932 | 16.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 31400                                                        | .50                                      | --                                                                           | 7.8                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0933 | 16.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 34100                                                        | 1.0                                      | --                                                                           | 7.6                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0934 | 16.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 34100                                                        | 1.5                                      | --                                                                           | 7.5                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0935 | 17.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 34500                                                        | 2.0                                      | --                                                                           | 7.4                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0936 | 17.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 35400                                                        | 2.5                                      | --                                                                           | 6.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0937 | 17.9                                            | 1028                                                               | 1028                                                              | --                                                                         | 35700                                                        | 2.9                                      | --                                                                           | 6.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1151 | 22.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 34400                                                        | .30                                      | 2620                                                                         | 7.1                                            | 8.0                                                                  | 3.05                                                                        | 2.8                                                                     |
| 22...    | 1152 | 22.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 34400                                                        | .50                                      | --                                                                           | 7.0                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1153 | 22.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 34600                                                        | 1.0                                      | --                                                                           | 6.7                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1154 | 22.1                                            | 1028                                                               | 1028                                                              | --                                                                         | 34900                                                        | 1.5                                      | --                                                                           | 6.5                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 22...    | 1155 | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 35200                                                        | 2.0                                      | --                                                                           | 6.5                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1156 | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 34900                                                        | 2.5                                      | --                                                                           | 6.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1157 | 22.0                                            | 1028                                                               | 1028                                                              | --                                                                         | 35400                                                        | 2.9                                      | --                                                                           | 6.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0930 | 21.3                                            | 1028                                                               | 1028                                                              | --                                                                         | 36100                                                        | .30                                      | --                                                                           | 7.3                                            | 8.0                                                                  | 3.05                                                                        | --                                                                      |
| 23...    | 0931 | 21.2                                            | 1028                                                               | 1028                                                              | --                                                                         | 36000                                                        | .50                                      | --                                                                           | 7.3                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0932 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 36500                                                        | 1.0                                      | --                                                                           | 7.0                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 0933 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 37200                                                        | 1.5                                      | --                                                                           | 6.6                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0934 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 37400                                                        | 2.0                                      | --                                                                           | 6.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0935 | 21.7                                            | 1028                                                               | 1028                                                              | --                                                                         | 37600                                                        | 2.5                                      | --                                                                           | 6.1                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0936 | 21.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 38200                                                        | 2.9                                      | --                                                                           | 6.0                                            | 7.9                                                                  | --                                                                          | --                                                                      |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR 1999 |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 19...    | 1023 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 36900                                                        | .30                                      | 2790                                                                         | 6.6                                            | 7.8                                                                  | 2.65                                                                        | --                                                                      |
| 19...    | 1024 | 22.8                                            | 1028                                                               | 1028                                                              | --                                                                         | 36900                                                        | .50                                      | --                                                                           | 6.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 19...    | 1025 | 22.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 37600                                                        | 1.0                                      | --                                                                           | 6.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 19...    | 1026 | 22.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 37900                                                        | 1.5                                      | --                                                                           | 6.2                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 19...    | 1027 | 22.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 38100                                                        | 2.0                                      | --                                                                           | 6.1                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 19...    | 1028 | 22.4                                            | 1028                                                               | 1028                                                              | 4.7                                                                        | 38600                                                        | 2.5                                      | --                                                                           | 5.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0825 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 39300                                                        | .30                                      | --                                                                           | 6.7                                            | 7.8                                                                  | 2.95                                                                        | --                                                                      |
| 20...    | 0826 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 39200                                                        | .50                                      | --                                                                           | 6.7                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0827 | 21.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 39300                                                        | 1.0                                      | --                                                                           | 6.6                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0828 | 21.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 39500                                                        | 1.5                                      | --                                                                           | 6.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0829 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 39500                                                        | 2.0                                      | --                                                                           | 6.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0830 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 39500                                                        | 2.5                                      | --                                                                           | 6.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 20...    | 0831 | 21.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 39500                                                        | 2.8                                      | --                                                                           | 6.3                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...    | 1104 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | .30                                      | 2680                                                                         | 6.4                                            | 7.8                                                                  | 3.15                                                                        | 3.0                                                                     |
| 25...    | 1105 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | .50                                      | --                                                                           | 6.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 25...    | 1106 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | 1.0                                      | --                                                                           | 6.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1107 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | 1.5                                      | --                                                                           | 6.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1108 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 41900                                                        | 2.0                                      | --                                                                           | 6.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1109 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | 2.5                                      | --                                                                           | 6.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 25...    | 1110 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 41800                                                        | 3.0                                      | --                                                                           | 6.2                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 26...    | 0837 | 28.6                                            | 1028                                                               | 1028                                                              | --                                                                         | 37300                                                        | .30                                      | --                                                                           | 5.9                                            | 7.9                                                                  | 3.15                                                                        | --                                                                      |
| 26...    | 0838 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 37400                                                        | .50                                      | --                                                                           | 5.9                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 26...    | 0839 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 37800                                                        | 1.0                                      | --                                                                           | 5.8                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 26...    | 0840 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 40500                                                        | 1.5                                      | --                                                                           | 5.4                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 26...    | 0841 | 28.5                                            | 1028                                                               | 1028                                                              | --                                                                         | 41300                                                        | 2.0                                      | --                                                                           | 5.3                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 26...    | 0842 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 41300                                                        | 2.5                                      | --                                                                           | 5.2                                            | 8.0                                                                  | --                                                                          | --                                                                      |
| 26...    | 0843 | 28.4                                            | 1028                                                               | 1028                                                              | --                                                                         | 41500                                                        | 3.0                                      | --                                                                           | 5.2                                            | 8.0                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE)<br>(00028) | LIGHT<br>INCI-<br>DENT<br>PERCENT<br>REMAIN-<br>ING AT<br>DEPTH<br>(00031) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                          |                                                         |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1034 | 29.5                                            | 1028                                                     | 1028                                                    | --                                                                         | 21500                                                        | .30                                      | 2110                                                                         | 3.5                                            | 7.4                                                                  | 3.15                                                                        | --                                                                      |
| 22...    | 1035 | 28.8                                            | 1028                                                     | 1028                                                    | --                                                                         | 32300                                                        | .50                                      | --                                                                           | 3.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1036 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 41500                                                        | 1.0                                      | --                                                                           | 2.7                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 22...    | 1037 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 42800                                                        | 1.5                                      | --                                                                           | 2.8                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1038 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 41900                                                        | 2.0                                      | --                                                                           | 2.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1039 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 43400                                                        | 2.5                                      | --                                                                           | 2.9                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1041 | 28.6                                            | 1028                                                     | 1028                                                    | 3.1                                                                        | 43000                                                        | 3.0                                      | --                                                                           | 2.8                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 0822 | 28.4                                            | 1028                                                     | 1028                                                    | --                                                                         | 30400                                                        | .30                                      | --                                                                           | 6.1                                            | 7.6                                                                  | 3.05                                                                        | --                                                                      |
| 23...    | 0823 | 28.4                                            | 1028                                                     | 1028                                                    | --                                                                         | 30300                                                        | .50                                      | --                                                                           | 5.9                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 0824 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 37400                                                        | 1.0                                      | --                                                                           | 4.0                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 0825 | 28.7                                            | 1028                                                     | 1028                                                    | --                                                                         | 41400                                                        | 1.5                                      | --                                                                           | 3.8                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 23...    | 0826 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 42600                                                        | 2.0                                      | --                                                                           | 4.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 0827 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 42700                                                        | 2.5                                      | --                                                                           | 4.0                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 23...    | 0828 | 28.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 42700                                                        | 2.9                                      | --                                                                           | 3.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| JUL      |      |                                                 |                                                          |                                                         |                                                                            |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 27...    | 1015 | 32.3                                            | 1028                                                     | 1028                                                    | --                                                                         | 10400                                                        | .30                                      | 2580                                                                         | 6.6                                            | 7.8                                                                  | 3.15                                                                        | 1.8                                                                     |
| 27...    | 1016 | 32.0                                            | 1028                                                     | 1028                                                    | --                                                                         | 16200                                                        | .50                                      | --                                                                           | 5.9                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 27...    | 1017 | 31.8                                            | 1028                                                     | 1028                                                    | --                                                                         | 18700                                                        | 1.0                                      | --                                                                           | 3.5                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 1018 | 31.7                                            | 1028                                                     | 1028                                                    | --                                                                         | 20000                                                        | 1.5                                      | --                                                                           | 3.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 1019 | 31.3                                            | 1028                                                     | 1028                                                    | --                                                                         | 24900                                                        | 2.0                                      | --                                                                           | .9                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1021 | 30.7                                            | 1028                                                     | 1028                                                    | --                                                                         | 29400                                                        | 2.5                                      | --                                                                           | .3                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1022 | 30.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 29700                                                        | 3.0                                      | --                                                                           | .2                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0853 | 31.7                                            | 1028                                                     | 1028                                                    | --                                                                         | 8320                                                         | .30                                      | --                                                                           | 5.2                                            | 7.7                                                                  | 2.85                                                                        | --                                                                      |
| 28...    | 0854 | 31.6                                            | 1028                                                     | 1028                                                    | --                                                                         | 9600                                                         | .50                                      | --                                                                           | 5.0                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0855 | 31.9                                            | 1028                                                     | 1028                                                    | --                                                                         | 16800                                                        | 1.0                                      | --                                                                           | 4.1                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...    | 0856 | 31.5                                            | 1028                                                     | 1028                                                    | --                                                                         | 25100                                                        | 1.5                                      | --                                                                           | .9                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0857 | 31.4                                            | 1028                                                     | 1028                                                    | --                                                                         | 26500                                                        | 2.0                                      | --                                                                           | .4                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0858 | 31.0                                            | 1028                                                     | 1028                                                    | --                                                                         | 29200                                                        | 2.5                                      | --                                                                           | .2                                             | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 0859 | 31.0                                            | 1028                                                     | 1028                                                    | --                                                                         | 29400                                                        | 2.7                                      | --                                                                           | .2                                             | 7.4                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| AUG 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                                    |
| 23...    | 1052 | 29.5                                            | 1028                                                               | 1028                                                              | 9860                                                         | .30                                      | 3020                                                                         | 6.0                                            | 7.7                                                                  | 3.65                                                                        | 1.4                                                                                |
| 23...    | 1053 | 29.4                                            | 1028                                                               | 1028                                                              | 9890                                                         | .50                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1054 | 29.1                                            | 1028                                                               | 1028                                                              | 10300                                                        | 1.0                                      | --                                                                           | 5.7                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1055 | 29.9                                            | 1028                                                               | 1028                                                              | 20600                                                        | 1.5                                      | --                                                                           | 3.5                                            | 7.4                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1056 | 30.0                                            | 1028                                                               | 1028                                                              | 21000                                                        | 2.0                                      | --                                                                           | 3.4                                            | 7.4                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1057 | 29.9                                            | 1028                                                               | 1028                                                              | 23200                                                        | 2.5                                      | --                                                                           | 2.9                                            | 7.4                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1058 | 29.9                                            | 1028                                                               | 1028                                                              | 23400                                                        | 3.0                                      | --                                                                           | 2.8                                            | 7.5                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1059 | 29.9                                            | 1028                                                               | 1028                                                              | 23200                                                        | 3.5                                      | --                                                                           | 2.8                                            | 7.5                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0808 | 28.2                                            | 1028                                                               | 1028                                                              | 5460                                                         | .30                                      | --                                                                           | 5.1                                            | 7.1                                                                  | 3.15                                                                        | --                                                                                 |
| 24...    | 0809 | 28.2                                            | 1028                                                               | 1028                                                              | 5600                                                         | .50                                      | --                                                                           | 4.9                                            | 7.1                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0810 | 29.5                                            | 1028                                                               | 1028                                                              | 14700                                                        | 1.0                                      | --                                                                           | 3.7                                            | 7.2                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0811 | 29.4                                            | 1028                                                               | 1028                                                              | 16100                                                        | 1.5                                      | --                                                                           | 3.4                                            | 7.2                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0812 | 29.8                                            | 1028                                                               | 1028                                                              | 20300                                                        | 2.0                                      | --                                                                           | 2.7                                            | 7.3                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0813 | 29.8                                            | 1028                                                               | 1028                                                              | 21600                                                        | 2.5                                      | --                                                                           | 2.5                                            | 7.3                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0814 | 29.8                                            | 1028                                                               | 1028                                                              | 22100                                                        | 3.0                                      | --                                                                           | 2.4                                            | 7.3                                                                  | --                                                                          | --                                                                                 |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                                    |
| 23...    | 1022 | 27.0                                            | 1028                                                               | 1028                                                              | 18000                                                        | .30                                      | 2630                                                                         | 5.8                                            | 7.5                                                                  | 3.15                                                                        | 2.4                                                                                |
| 23...    | 1023 | 26.9                                            | 1028                                                               | 1028                                                              | 18300                                                        | .50                                      | --                                                                           | 5.8                                            | 7.5                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1024 | 26.7                                            | 1028                                                               | 1028                                                              | 22900                                                        | 1.0                                      | --                                                                           | 5.3                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1025 | 27.0                                            | 1028                                                               | 1028                                                              | 29000                                                        | 1.5                                      | --                                                                           | 4.6                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1026 | 27.1                                            | 1028                                                               | 1028                                                              | 29900                                                        | 2.0                                      | --                                                                           | 4.5                                            | 7.7                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1027 | 27.1                                            | 1028                                                               | 1028                                                              | 32000                                                        | 2.5                                      | --                                                                           | 4.1                                            | 7.7                                                                  | --                                                                          | --                                                                                 |
| 23...    | 1028 | 27.1                                            | 1028                                                               | 1028                                                              | 32200                                                        | 3.0                                      | --                                                                           | 4.0                                            | 7.7                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0848 | 26.2                                            | 1028                                                               | 1028                                                              | 11800                                                        | .30                                      | --                                                                           | 5.2                                            | 7.4                                                                  | 2.95                                                                        | --                                                                                 |
| 24...    | 0849 | 26.1                                            | 1028                                                               | 1028                                                              | 12200                                                        | .50                                      | --                                                                           | 5.1                                            | 7.4                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0850 | 26.6                                            | 1028                                                               | 1028                                                              | 16900                                                        | 1.0                                      | --                                                                           | 4.8                                            | 7.4                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0851 | 26.8                                            | 1028                                                               | 1028                                                              | 23100                                                        | 1.5                                      | --                                                                           | 4.5                                            | 7.5                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0852 | 26.8                                            | 1028                                                               | 1028                                                              | 24800                                                        | 2.0                                      | --                                                                           | 3.9                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0853 | 27.1                                            | 1028                                                               | 1028                                                              | 31200                                                        | 2.5                                      | --                                                                           | 3.0                                            | 7.6                                                                  | --                                                                          | --                                                                                 |
| 24...    | 0854 | 27.2                                            | 1028                                                               | 1028                                                              | 31900                                                        | 2.8                                      | --                                                                           | 3.0                                            | 7.6                                                                  | --                                                                          | --                                                                                 |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

| WATER-QUALITY DATA |      |                                                 |         |         |       |                                          |        |                                                |         |         |        |
|--------------------|------|-------------------------------------------------|---------|---------|-------|------------------------------------------|--------|------------------------------------------------|---------|---------|--------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY  | AGENCY  | SPE-  | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT  | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH      | DEPTH   | LIGHT  |
|                    |      |                                                 | COL-    | ANA-    | CIFIC |                                          | INCID. |                                                | WATER   | TO BOT. | DEPTH  |
|                    |      |                                                 | LECTING | LYZING  | CON-  |                                          | 400-   |                                                | FIELD   | FROM    | TO     |
|                    |      |                                                 | SAMPLE  | SAMPLE  | DUCT- |                                          | 700NM  |                                                | (STAND- | SURFACE | 1 % OF |
|                    |      | (CODE                                           | (CODE   | ANCE    |       | U-EINS                                   |        | ARD                                            | AT SAMP | SURFACE |        |
|                    |      | NUMBER)                                         | NUMBER) | (US/CM) |       | /SQM/S)                                  |        | UNITS)                                         | METERS  | LIGHT   |        |
|                    |      | (00027)                                         | (00028) | (00095) |       | (00200)                                  |        | (00400)                                        | (82903) | (85328) |        |
| OCT 1999           |      |                                                 |         |         |       |                                          |        |                                                |         |         |        |
| 19...              | 1121 | 27.7                                            | 1028    | 1028    | 10600 | .30                                      | 2640   | 6.6                                            | 7.8     | 3.15    | 1.6    |
| 19...              | 1122 | 27.2                                            | 1028    | 1028    | 12800 | .50                                      | --     | 6.4                                            | 7.8     | --      | --     |
| 19...              | 1123 | 26.5                                            | 1028    | 1028    | 28200 | 1.0                                      | --     | 4.3                                            | 7.8     | --      | --     |
| 19...              | 1124 | 26.2                                            | 1028    | 1028    | 30400 | 1.5                                      | --     | 4.2                                            | 7.8     | --      | --     |
| 19...              | 1125 | 26.2                                            | 1028    | 1028    | 33400 | 2.0                                      | --     | 4.2                                            | 7.8     | --      | --     |
| 19...              | 1126 | 26.2                                            | 1028    | 1028    | 31900 | 2.5                                      | --     | 4.1                                            | 7.8     | --      | --     |
| 19...              | 1127 | 26.2                                            | 1028    | 1028    | 32100 | 3.0                                      | --     | 4.0                                            | 7.8     | --      | --     |
| 20...              | 0950 | 26.7                                            | 1028    | 1028    | 20500 | .30                                      | --     | 6.2                                            | 7.5     | 3.35    | --     |
| 20...              | 0951 | 26.6                                            | 1028    | 1028    | 20500 | .50                                      | --     | 6.1                                            | 7.5     | --      | --     |
| 20...              | 0952 | 26.4                                            | 1028    | 1028    | 22700 | 1.0                                      | --     | 4.5                                            | 7.6     | --      | --     |
| 20...              | 0953 | 26.4                                            | 1028    | 1028    | 30700 | 1.5                                      | --     | 3.3                                            | 7.5     | --      | --     |
| 20...              | 0954 | 26.4                                            | 1028    | 1028    | 31100 | 2.0                                      | --     | 3.2                                            | 7.5     | --      | --     |
| 20...              | 0955 | 26.3                                            | 1028    | 1028    | 31700 | 2.5                                      | --     | 3.2                                            | 7.5     | --      | --     |
| 20...              | 0956 | 26.3                                            | 1028    | 1028    | 31900 | 3.0                                      | --     | 3.2                                            | 7.5     | --      | --     |
| NOV                |      |                                                 |         |         |       |                                          |        |                                                |         |         |        |
| 16...              | 1041 | 21.9                                            | 1028    | 1028    | 32500 | .30                                      | 2480   | 7.1                                            | 8.0     | 2.85    | 2.8    |
| 16...              | 1042 | 21.9                                            | 1028    | 1028    | 32600 | .50                                      | --     | 7.0                                            | 8.0     | --      | --     |
| 16...              | 1043 | 21.8                                            | 1028    | 1028    | 32800 | 1.0                                      | --     | 6.9                                            | 8.0     | --      | --     |
| 16...              | 1044 | 21.8                                            | 1028    | 1028    | 33000 | 1.5                                      | --     | 6.7                                            | 7.9     | --      | --     |
| 16...              | 1045 | 21.9                                            | 1028    | 1028    | 33000 | 2.0                                      | --     | 6.5                                            | 7.9     | --      | --     |
| 16...              | 1046 | 21.9                                            | 1028    | 1028    | 33900 | 2.5                                      | --     | 6.2                                            | 7.9     | --      | --     |
| 16...              | 1047 | 21.9                                            | 1028    | 1028    | 34200 | 2.7                                      | --     | 6.1                                            | 7.9     | --      | --     |
| 17...              | 0940 | 20.5                                            | 1028    | 1028    | 31400 | .30                                      | --     | 6.8                                            | 7.9     | 3.25    | --     |
| 17...              | 0941 | 20.5                                            | 1028    | 1028    | 31300 | .50                                      | --     | 6.7                                            | 7.9     | --      | --     |
| 17...              | 0942 | 20.6                                            | 1028    | 1028    | 31900 | 1.0                                      | --     | 6.6                                            | 7.9     | --      | --     |
| 17...              | 0943 | 21.0                                            | 1028    | 1028    | 36400 | 1.5                                      | --     | 5.5                                            | 7.8     | --      | --     |
| 17...              | 0944 | 21.3                                            | 1028    | 1028    | 36800 | 2.0                                      | --     | 5.1                                            | 7.8     | --      | --     |
| 17...              | 0945 | 21.8                                            | 1028    | 1028    | 38600 | 2.5                                      | --     | 4.8                                            | 7.8     | --      | --     |
| 17...              | 0946 | 21.9                                            | 1028    | 1028    | 38500 | 3.0                                      | --     | 4.8                                            | 7.8     | --      | --     |
| 17...              | 0947 | 21.9                                            | 1028    | 1028    | 38700 | 3.1                                      | --     | 4.7                                            | 7.8     | --      | --     |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 20...    | 1033 | 19.7                                            | 1028                                                               | 1028                                                              | 37800                                                        | .30                                      | 1560                                                                         | 7.7                                            | 7.9                                                                  | 2.95                                                                        | 2.1                                                                     |
| 20...    | 1034 | 19.7                                            | 1028                                                               | 1028                                                              | 38000                                                        | .50                                      | --                                                                           | 7.5                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 1035 | 19.7                                            | 1028                                                               | 1028                                                              | 37900                                                        | 1.0                                      | --                                                                           | 7.5                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 1036 | 19.7                                            | 1028                                                               | 1028                                                              | 38100                                                        | 1.5                                      | --                                                                           | 7.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 1037 | 19.7                                            | 1028                                                               | 1028                                                              | 38100                                                        | 2.0                                      | --                                                                           | 7.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 1038 | 19.7                                            | 1028                                                               | 1028                                                              | 38400                                                        | 2.5                                      | --                                                                           | 7.4                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 20...    | 1039 | 19.7                                            | 1028                                                               | 1028                                                              | 38300                                                        | 2.8                                      | --                                                                           | 7.3                                            | 7.9                                                                  | --                                                                          | --                                                                      |
| 21...    | 1009 | 20.0                                            | 1028                                                               | 1028                                                              | 32200                                                        | .30                                      | --                                                                           | 6.9                                            | 7.7                                                                  | 3.25                                                                        | --                                                                      |
| 21...    | 1010 | 20.0                                            | 1028                                                               | 1028                                                              | 32900                                                        | .50                                      | --                                                                           | 6.9                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 21...    | 1011 | 20.0                                            | 1028                                                               | 1028                                                              | 32800                                                        | 1.0                                      | --                                                                           | 6.9                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 21...    | 1012 | 20.0                                            | 1028                                                               | 1028                                                              | 33800                                                        | 1.5                                      | --                                                                           | 6.9                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 21...    | 1013 | 20.1                                            | 1028                                                               | 1028                                                              | 39000                                                        | 2.0                                      | --                                                                           | 5.6                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 21...    | 1014 | 20.1                                            | 1028                                                               | 1028                                                              | 40100                                                        | 2.5                                      | --                                                                           | 5.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 21...    | 1015 | 20.1                                            | 1028                                                               | 1028                                                              | 39800                                                        | 3.0                                      | --                                                                           | 5.5                                            | 7.8                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1040 | 24.3                                            | 1028                                                               | 1028                                                              | 10100                                                        | .30                                      | 10.7                                           | 8.8                                                                  | 3.75                                                                        |
| 29...    | 1041 | 24.2                                            | 1028                                                               | 1028                                                              | 13800                                                        | .50                                      | 9.5                                            | 8.7                                                                  | --                                                                          |
| 29...    | 1042 | 24.3                                            | 1028                                                               | 1028                                                              | 23900                                                        | 1.0                                      | 6.4                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1043 | 24.3                                            | 1028                                                               | 1028                                                              | 25200                                                        | 1.5                                      | 5.9                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1044 | 24.3                                            | 1028                                                               | 1028                                                              | 25500                                                        | 2.0                                      | 5.7                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1045 | 24.4                                            | 1028                                                               | 1028                                                              | 25600                                                        | 2.5                                      | 5.6                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1046 | 24.4                                            | 1028                                                               | 1028                                                              | 25600                                                        | 3.0                                      | 5.6                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1047 | 24.4                                            | 1028                                                               | 1028                                                              | 25900                                                        | 3.5                                      | 5.6                                            | 8.1                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1035 | 24.8                                            | 1028                                                               | 1028                                                              | 248                                                          | .30                                      | 5.8                                            | 7.0                                                                  | 3.35                                                                        |
| 18...    | 1036 | 24.6                                            | 1028                                                               | 1028                                                              | 746                                                          | .50                                      | 5.6                                            | 7.0                                                                  | --                                                                          |
| 18...    | 1037 | 24.5                                            | 1028                                                               | 1028                                                              | 906                                                          | 1.0                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| 18...    | 1038 | 24.5                                            | 1028                                                               | 1028                                                              | 924                                                          | 1.5                                      | 5.5                                            | 7.1                                                                  | --                                                                          |
| 18...    | 1039 | 24.5                                            | 1028                                                               | 1028                                                              | 920                                                          | 2.0                                      | 5.5                                            | 7.1                                                                  | --                                                                          |
| 18...    | 1040 | 24.4                                            | 1028                                                               | 1028                                                              | 967                                                          | 2.5                                      | 5.5                                            | 7.1                                                                  | --                                                                          |
| 18...    | 1041 | 24.4                                            | 1028                                                               | 1028                                                              | 1080                                                         | 3.0                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1017 | 21.4                                            | 1028                                                               | 1028                                                              | 19400                                                        | .30                                      | 8.1                                            | 8.1                                                                  | 4.15                                                                        |
| 29...    | 1018 | 21.3                                            | 1028                                                               | 1028                                                              | 21300                                                        | .50                                      | 7.6                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1019 | 21.4                                            | 1028                                                               | 1028                                                              | 22100                                                        | 1.0                                      | 6.7                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1020 | 21.4                                            | 1028                                                               | 1028                                                              | 21800                                                        | 1.5                                      | 6.8                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1021 | 21.4                                            | 1028                                                               | 1028                                                              | 21700                                                        | 2.0                                      | 6.8                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1022 | 21.4                                            | 1028                                                               | 1028                                                              | 23500                                                        | 2.5                                      | 6.6                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1023 | 21.4                                            | 1028                                                               | 1028                                                              | 22200                                                        | 3.0                                      | 6.6                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1024 | 21.4                                            | 1028                                                               | 1028                                                              | 23200                                                        | 3.5                                      | 6.6                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1025 | 21.4                                            | 1028                                                               | 1028                                                              | 22700                                                        | 4.0                                      | 6.6                                            | 7.9                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1041 | 20.3                                            | 1028                                                               | 1028                                                              | 11900                                                        | .30                                      | 9.0                                            | 8.0                                                                  | 3.35                                                                        |
| 26...    | 1042 | 20.4                                            | 1028                                                               | 1028                                                              | 12500                                                        | .50                                      | 9.2                                            | 8.1                                                                  | --                                                                          |
| 26...    | 1043 | 20.8                                            | 1028                                                               | 1028                                                              | 15400                                                        | 1.0                                      | 7.6                                            | 7.9                                                                  | --                                                                          |
| 26...    | 1044 | 20.7                                            | 1028                                                               | 1028                                                              | 16100                                                        | 1.5                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| 26...    | 1045 | 20.8                                            | 1028                                                               | 1028                                                              | 16800                                                        | 2.0                                      | 6.5                                            | 7.6                                                                  | --                                                                          |
| 26...    | 1046 | 20.8                                            | 1028                                                               | 1028                                                              | 16700                                                        | 2.5                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| 26...    | 1047 | 20.8                                            | 1028                                                               | 1028                                                              | 16300                                                        | 3.0                                      | 6.5                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1010 | 15.8                                            | 1028                                                               | 1028                                                              | 16900                                                        | .30                                      | 8.4                                            | 7.9                                                                  | 3.75                                                                        |
| 23...    | 1011 | 16.1                                            | 1028                                                               | 1028                                                              | 17600                                                        | .50                                      | 8.4                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1012 | 16.8                                            | 1028                                                               | 1028                                                              | 18700                                                        | 1.0                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1013 | 16.8                                            | 1028                                                               | 1028                                                              | 19100                                                        | 1.5                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1014 | 16.9                                            | 1028                                                               | 1028                                                              | 19200                                                        | 2.0                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1015 | 16.9                                            | 1028                                                               | 1028                                                              | 19300                                                        | 2.5                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1016 | 16.9                                            | 1028                                                               | 1028                                                              | 19300                                                        | 3.0                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1017 | 16.9                                            | 1028                                                               | 1028                                                              | 19300                                                        | 3.5                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1008 | 21.2                                            | 1028                                                               | 1028                                                              | 23800                                                        | .30                                      | 6.4                                            | 7.6                                                                  | 3.75                                                                        |
| 23...    | 1009 | 21.2                                            | 1028                                                               | 1028                                                              | 23900                                                        | .50                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1010 | 21.4                                            | 1028                                                               | 1028                                                              | 24300                                                        | 1.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1011 | 21.6                                            | 1028                                                               | 1028                                                              | 24700                                                        | 1.5                                      | 6.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1012 | 21.6                                            | 1028                                                               | 1028                                                              | 24900                                                        | 2.0                                      | 6.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1013 | 21.6                                            | 1028                                                               | 1028                                                              | 24900                                                        | 2.5                                      | 6.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1014 | 21.6                                            | 1028                                                               | 1028                                                              | 25100                                                        | 3.0                                      | 6.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1015 | 21.6                                            | 1028                                                               | 1028                                                              | 25400                                                        | 3.5                                      | 6.2                                            | 7.7                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 0901 | 21.0                                            | 1028                                                               | 1028                                                              | 27100                                                        | .30                                      | 6.6                                            | 7.7                                                                  | 3.35                                                                        |
| 20...    | 0902 | 21.1                                            | 1028                                                               | 1028                                                              | 27100                                                        | .50                                      | 6.7                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0903 | 21.6                                            | 1028                                                               | 1028                                                              | 27600                                                        | 1.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0904 | 21.7                                            | 1028                                                               | 1028                                                              | 28000                                                        | 1.5                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0905 | 21.7                                            | 1028                                                               | 1028                                                              | 28300                                                        | 2.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0906 | 21.7                                            | 1028                                                               | 1028                                                              | 28200                                                        | 2.5                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0907 | 21.7                                            | 1028                                                               | 1028                                                              | 28300                                                        | 3.0                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0908 | 21.7                                            | 1028                                                               | 1028                                                              | 28300                                                        | 3.2                                      | 6.5                                            | 7.7                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 0918 | 28.5                                            | 1028                                                               | 1028                                                              | 23600                                                        | .30                                      | 5.6                                            | 7.7                                                                  | 3.55                                                                        |
| 26...    | 0919 | 28.5                                            | 1028                                                               | 1028                                                              | 23900                                                        | .50                                      | 5.6                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0920 | 28.3                                            | 1028                                                               | 1028                                                              | 25200                                                        | 1.0                                      | 5.2                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0921 | 28.2                                            | 1028                                                               | 1028                                                              | 25800                                                        | 1.5                                      | 5.0                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0922 | 28.2                                            | 1028                                                               | 1028                                                              | 25800                                                        | 2.0                                      | 5.0                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0923 | 28.2                                            | 1028                                                               | 1028                                                              | 25800                                                        | 2.5                                      | 5.0                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0924 | 28.2                                            | 1028                                                               | 1028                                                              | 25700                                                        | 3.0                                      | 5.0                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0925 | 28.2                                            | 1028                                                               | 1028                                                              | 25800                                                        | 3.4                                      | 5.0                                            | 7.7                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0859 | 27.9                                            | 1028                                                               | 1028                                                              | 6390                                                         | .30                                      | 4.7                                            | 7.3                                                                  | 3.75                                                                        |
| 23...    | 0900 | 28.0                                            | 1028                                                               | 1028                                                              | 6480                                                         | .50                                      | 4.7                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0901 | 27.9                                            | 1028                                                               | 1028                                                              | 6480                                                         | 1.0                                      | 4.6                                            | 7.2                                                                  | --                                                                          |
| 23...    | 0902 | 28.0                                            | 1028                                                               | 1028                                                              | 12700                                                        | 1.5                                      | 3.8                                            | 7.1                                                                  | --                                                                          |
| 23...    | 0903 | 28.7                                            | 1028                                                               | 1028                                                              | 33000                                                        | 2.0                                      | 2.2                                            | 7.2                                                                  | --                                                                          |
| 23...    | 0904 | 28.8                                            | 1028                                                               | 1028                                                              | 34500                                                        | 2.5                                      | 2.1                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0905 | 28.8                                            | 1028                                                               | 1028                                                              | 34800                                                        | 3.0                                      | 2.0                                            | 7.4                                                                  | --                                                                          |
| 23...    | 0906 | 28.8                                            | 1028                                                               | 1028                                                              | 35700                                                        | 3.5                                      | 2.0                                            | 7.4                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 0930 | 32.4                                            | 1028                                                               | 1028                                                              | 577                                                          | .30                                      | 4.4                                            | 7.1                                                                  | 3.75                                                                        |
| 28...    | 0931 | 31.5                                            | 1028                                                               | 1028                                                              | 553                                                          | .50                                      | 4.1                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0932 | 31.0                                            | 1028                                                               | 1028                                                              | 548                                                          | 1.0                                      | 4.0                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0933 | 31.0                                            | 1028                                                               | 1028                                                              | 518                                                          | 1.5                                      | 4.0                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0934 | 30.9                                            | 1028                                                               | 1028                                                              | 516                                                          | 2.0                                      | 4.1                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0935 | 30.9                                            | 1028                                                               | 1028                                                              | 513                                                          | 2.5                                      | 4.0                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0936 | 30.9                                            | 1028                                                               | 1028                                                              | 518                                                          | 3.0                                      | 4.0                                            | 7.1                                                                  | --                                                                          |
| 28...    | 0937 | 30.9                                            | 1028                                                               | 1028                                                              | 521                                                          | 3.5                                      | 4.0                                            | 7.1                                                                  | --                                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| AUG 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0847 | 28.3                                            | 1028                                                               | 1028                                                              | 368                                                          | .30                                      | 5.2                                            | 7.0                                                                  | 3.95                                                                        |
| 24...    | 0848 | 28.1                                            | 1028                                                               | 1028                                                              | 370                                                          | .50                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0849 | 27.9                                            | 1028                                                               | 1028                                                              | 385                                                          | 1.0                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0850 | 27.7                                            | 1028                                                               | 1028                                                              | 383                                                          | 1.5                                      | 4.5                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0851 | 27.6                                            | 1028                                                               | 1028                                                              | 372                                                          | 2.0                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0852 | 27.6                                            | 1028                                                               | 1028                                                              | 386                                                          | 2.5                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0853 | 27.6                                            | 1028                                                               | 1028                                                              | 388                                                          | 3.0                                      | 4.2                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0854 | 27.6                                            | 1028                                                               | 1028                                                              | 390                                                          | 3.5                                      | 4.2                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0855 | 27.6                                            | 1028                                                               | 1028                                                              | 377                                                          | 3.8                                      | 4.2                                            | 6.9                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0932 | 26.9                                            | 1028                                                               | 1028                                                              | 754                                                          | .30                                      | 4.6                                            | 6.8                                                                  | 3.85                                                                        |
| 24...    | 0933 | 26.6                                            | 1028                                                               | 1028                                                              | 763                                                          | .50                                      | 4.5                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0934 | 26.0                                            | 1028                                                               | 1028                                                              | 761                                                          | 1.0                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0935 | 25.9                                            | 1028                                                               | 1028                                                              | 754                                                          | 1.5                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0936 | 25.9                                            | 1028                                                               | 1028                                                              | 834                                                          | 2.0                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0937 | 25.9                                            | 1028                                                               | 1028                                                              | 865                                                          | 2.5                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0938 | 25.9                                            | 1028                                                               | 1028                                                              | 855                                                          | 3.0                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0939 | 25.9                                            | 1028                                                               | 1028                                                              | 837                                                          | 3.5                                      | 4.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0940 | 25.9                                            | 1028                                                               | 1028                                                              | 836                                                          | 3.7                                      | 4.3                                            | 7.0                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1023 | 26.9                                            | 1028                                                               | 1028                                                              | 3460                                                         | .30                                      | 5.4                                            | 7.3                                                                  | 3.95                                                                        |
| 20...    | 1024 | 26.8                                            | 1028                                                               | 1028                                                              | 3540                                                         | .50                                      | 5.4                                            | 7.3                                                                  | --                                                                          |
| 20...    | 1025 | 26.7                                            | 1028                                                               | 1028                                                              | 4790                                                         | 1.0                                      | 5.3                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1026 | 26.8                                            | 1028                                                               | 1028                                                              | 5100                                                         | 1.5                                      | 5.3                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1027 | 26.7                                            | 1028                                                               | 1028                                                              | 11800                                                        | 2.0                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1028 | 26.8                                            | 1028                                                               | 1028                                                              | 18400                                                        | 2.5                                      | 4.0                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1029 | 26.8                                            | 1028                                                               | 1028                                                              | 20900                                                        | 3.0                                      | 3.9                                            | 7.3                                                                  | --                                                                          |
| 20...    | 1030 | 26.8                                            | 1028                                                               | 1028                                                              | 21200                                                        | 3.5                                      | 3.8                                            | 7.3                                                                  | --                                                                          |
| 20...    | 1031 | 26.8                                            | 1028                                                               | 1028                                                              | 21300                                                        | 3.8                                      | 3.8                                            | 7.3                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| NOV 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1020 | 21.1                                            | 1028                                                               | 1028                                                              | 15800                                                        | .30                                      | 8.1                                            | 8.1                                                                  | 3.45                                                                        |
| 17...    | 1021 | 21.1                                            | 1028                                                               | 1028                                                              | 15600                                                        | .50                                      | 8.1                                            | 8.1                                                                  | --                                                                          |
| 17...    | 1022 | 21.1                                            | 1028                                                               | 1028                                                              | 16500                                                        | 1.0                                      | 7.9                                            | 8.0                                                                  | --                                                                          |
| 17...    | 1023 | 21.2                                            | 1028                                                               | 1028                                                              | 18300                                                        | 1.5                                      | 7.4                                            | 8.0                                                                  | --                                                                          |
| 17...    | 1024 | 22.4                                            | 1028                                                               | 1028                                                              | 28800                                                        | 2.0                                      | 5.5                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1025 | 22.4                                            | 1028                                                               | 1028                                                              | 29300                                                        | 2.5                                      | 5.4                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1026 | 22.4                                            | 1028                                                               | 1028                                                              | 29400                                                        | 3.0                                      | 5.4                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1027 | 22.4                                            | 1028                                                               | 1028                                                              | 29500                                                        | 3.3                                      | 5.4                                            | 7.8                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1050 | 20.5                                            | 1028                                                               | 1028                                                              | 16200                                                        | .30                                      | 6.4                                            | 7.5                                                                  | 3.65                                                                        |
| 21...    | 1051 | 20.5                                            | 1028                                                               | 1028                                                              | 16800                                                        | .50                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1052 | 20.4                                            | 1028                                                               | 1028                                                              | 16800                                                        | 1.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1053 | 20.5                                            | 1028                                                               | 1028                                                              | 17100                                                        | 1.5                                      | 6.2                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1054 | 20.3                                            | 1028                                                               | 1028                                                              | 17900                                                        | 2.0                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1055 | 20.2                                            | 1028                                                               | 1028                                                              | 17800                                                        | 2.5                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1056 | 20.2                                            | 1028                                                               | 1028                                                              | 17600                                                        | 3.0                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1057 | 20.2                                            | 1028                                                               | 1028                                                              | 18600                                                        | 3.5                                      | 6.0                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265724082024400 - PEACE RIVER AT RIVER MILE 4.88 NEAR PUNTA GORDA

| WATER-QUALITY DATA |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
|--------------------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
| OCT 1998           |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...              | 1013 | 23.9                                            | 1028                                                               | 1028                                                              | 21100                                                        | .30                                      | 8.2                                            | 8.4                                                                  | 2.35                                                                        |
| 29...              | 1014 | 23.8                                            | 1028                                                               | 1028                                                              | 21800                                                        | .50                                      | 7.4                                            | 8.3                                                                  | --                                                                          |
| 29...              | 1015 | 24.1                                            | 1028                                                               | 1028                                                              | 30800                                                        | 1.0                                      | 5.2                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1016 | 24.2                                            | 1028                                                               | 1028                                                              | 31200                                                        | 1.5                                      | 5.1                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1017 | 24.2                                            | 1028                                                               | 1028                                                              | 31600                                                        | 2.0                                      | 4.9                                            | 8.0                                                                  | --                                                                          |
| NOV                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...              | 0950 | 25.2                                            | 1028                                                               | 1028                                                              | 6420                                                         | .30                                      | 6.6                                            | 7.4                                                                  | 1.75                                                                        |
| 18...              | 0951 | 25.1                                            | 1028                                                               | 1028                                                              | 6990                                                         | .50                                      | 6.4                                            | 7.4                                                                  | --                                                                          |
| 18...              | 0952 | 25.4                                            | 1028                                                               | 1028                                                              | 18500                                                        | 1.0                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| 18...              | 0953 | 25.2                                            | 1028                                                               | 1028                                                              | 26600                                                        | 1.5                                      | 4.0                                            | 7.4                                                                  | --                                                                          |
| DEC                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...              | 0951 | 21.2                                            | 1028                                                               | 1028                                                              | 32700                                                        | .30                                      | 6.3                                            | 7.9                                                                  | 2.25                                                                        |
| 29...              | 0952 | 21.2                                            | 1028                                                               | 1028                                                              | 32800                                                        | .50                                      | 6.2                                            | 7.9                                                                  | --                                                                          |
| 29...              | 0953 | 21.2                                            | 1028                                                               | 1028                                                              | 33100                                                        | 1.0                                      | 6.0                                            | 7.9                                                                  | --                                                                          |
| 29...              | 0954 | 21.2                                            | 1028                                                               | 1028                                                              | 32800                                                        | 1.5                                      | 5.8                                            | 7.9                                                                  | --                                                                          |
| 29...              | 0955 | 21.3                                            | 1028                                                               | 1028                                                              | 34400                                                        | 2.0                                      | 5.6                                            | 7.9                                                                  | --                                                                          |
| JAN 1999           |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...              | 1013 | 20.6                                            | 1028                                                               | 1028                                                              | 24700                                                        | .30                                      | 7.0                                            | 7.8                                                                  | 2.05                                                                        |
| 26...              | 1014 | 20.7                                            | 1028                                                               | 1028                                                              | 26700                                                        | .50                                      | 6.9                                            | 7.8                                                                  | --                                                                          |
| 26...              | 1015 | 21.3                                            | 1028                                                               | 1028                                                              | 35700                                                        | 1.0                                      | 5.6                                            | 7.8                                                                  | --                                                                          |
| 26...              | 1016 | 21.3                                            | 1028                                                               | 1028                                                              | 35600                                                        | 1.5                                      | 5.6                                            | 7.8                                                                  | --                                                                          |
| 26...              | 1017 | 21.3                                            | 1028                                                               | 1028                                                              | 35100                                                        | 1.9                                      | 5.6                                            | 7.8                                                                  | --                                                                          |
| FEB                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...              | 0947 | 16.7                                            | 1028                                                               | 1028                                                              | 31400                                                        | .30                                      | 7.5                                            | 8.0                                                                  | 2.15                                                                        |
| 23...              | 0948 | 16.7                                            | 1028                                                               | 1028                                                              | 31500                                                        | .50                                      | 7.4                                            | 8.0                                                                  | --                                                                          |
| 23...              | 0949 | 16.9                                            | 1028                                                               | 1028                                                              | 32500                                                        | 1.0                                      | 7.2                                            | 7.9                                                                  | --                                                                          |
| 23...              | 0950 | 17.0                                            | 1028                                                               | 1028                                                              | 33200                                                        | 1.5                                      | 7.1                                            | 7.9                                                                  | --                                                                          |
| 23...              | 0951 | 17.1                                            | 1028                                                               | 1028                                                              | 33500                                                        | 2.0                                      | 7.0                                            | 7.9                                                                  | --                                                                          |
| MAR                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...              | 0943 | 21.5                                            | 1028                                                               | 1028                                                              | 33700                                                        | .30                                      | 7.4                                            | 8.0                                                                  | 2.15                                                                        |
| 23...              | 0944 | 21.5                                            | 1028                                                               | 1028                                                              | 33800                                                        | .50                                      | 7.3                                            | 8.0                                                                  | --                                                                          |
| 23...              | 0945 | 21.3                                            | 1028                                                               | 1028                                                              | 34400                                                        | 1.0                                      | 6.8                                            | 7.9                                                                  | --                                                                          |
| 23...              | 0946 | 21.1                                            | 1028                                                               | 1028                                                              | 35300                                                        | 1.5                                      | 6.6                                            | 7.9                                                                  | --                                                                          |
| 23...              | 0947 | 21.1                                            | 1028                                                               | 1028                                                              | 35400                                                        | 2.0                                      | 6.6                                            | 7.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265724082024400 - PEACE RIVER AT RIVER MILE 4.88 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 0835 | 21.8                                            | 1028                                                               | 1028                                                              | 36200                                                        | .30                                      | 6.8                                            | 7.9                                                                  | 1.95                                                                        |
| 20...    | 0836 | 21.8                                            | 1028                                                               | 1028                                                              | 36200                                                        | .50                                      | 6.8                                            | 7.9                                                                  | --                                                                          |
| 20...    | 0837 | 21.8                                            | 1028                                                               | 1028                                                              | 36200                                                        | 1.0                                      | 6.8                                            | 7.9                                                                  | --                                                                          |
| 20...    | 0838 | 21.6                                            | 1028                                                               | 1028                                                              | 37000                                                        | 1.5                                      | 6.5                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0839 | 21.6                                            | 1028                                                               | 1028                                                              | 36900                                                        | 1.8                                      | 6.5                                            | 7.8                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 0852 | 28.5                                            | 1028                                                               | 1028                                                              | 33200                                                        | .30                                      | 5.6                                            | 7.8                                                                  | 2.35                                                                        |
| 26...    | 0853 | 28.5                                            | 1028                                                               | 1028                                                              | 33500                                                        | .50                                      | 5.6                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0854 | 28.4                                            | 1028                                                               | 1028                                                              | 34300                                                        | 1.0                                      | 5.5                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0855 | 28.6                                            | 1028                                                               | 1028                                                              | 37000                                                        | 1.5                                      | 5.2                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0856 | 29.0                                            | 1028                                                               | 1028                                                              | 40300                                                        | 2.0                                      | 4.5                                            | 7.9                                                                  | --                                                                          |
| 26...    | 0857 | 29.0                                            | 1028                                                               | 1028                                                              | 40500                                                        | 2.2                                      | 4.5                                            | 7.9                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0834 | 27.9                                            | 1028                                                               | 1028                                                              | 15500                                                        | .30                                      | 5.0                                            | 7.3                                                                  | 2.25                                                                        |
| 23...    | 0835 | 27.8                                            | 1028                                                               | 1028                                                              | 15900                                                        | .50                                      | 4.8                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0836 | 28.7                                            | 1028                                                               | 1028                                                              | 39600                                                        | 1.0                                      | 3.5                                            | 7.5                                                                  | --                                                                          |
| 23...    | 0837 | 28.8                                            | 1028                                                               | 1028                                                              | 40800                                                        | 1.5                                      | 3.3                                            | 7.6                                                                  | --                                                                          |
| 23...    | 0838 | 28.8                                            | 1028                                                               | 1028                                                              | 40900                                                        | 2.0                                      | 3.3                                            | 7.7                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 0905 | 31.9                                            | 1028                                                               | 1028                                                              | 2170                                                         | .30                                      | 5.1                                            | 7.8                                                                  | 2.15                                                                        |
| 28...    | 0906 | 31.9                                            | 1028                                                               | 1028                                                              | 7200                                                         | .50                                      | 3.6                                            | 7.5                                                                  | --                                                                          |
| 28...    | 0907 | 32.1                                            | 1028                                                               | 1028                                                              | 13700                                                        | 1.0                                      | 5.1                                            | 7.5                                                                  | --                                                                          |
| 28...    | 0908 | 32.0                                            | 1028                                                               | 1028                                                              | 16700                                                        | 1.5                                      | 3.9                                            | 7.5                                                                  | --                                                                          |
| 28...    | 0909 | 32.0                                            | 1028                                                               | 1028                                                              | 16900                                                        | 2.0                                      | 3.6                                            | 7.5                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0820 | 28.0                                            | 1028                                                               | 1028                                                              | 1750                                                         | .30                                      | 5.3                                            | 7.2                                                                  | 2.25                                                                        |
| 24...    | 0821 | 28.1                                            | 1028                                                               | 1028                                                              | 2170                                                         | .50                                      | 4.9                                            | 7.3                                                                  | --                                                                          |
| 24...    | 0822 | 28.8                                            | 1028                                                               | 1028                                                              | 8510                                                         | 1.0                                      | 4.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 0823 | 29.0                                            | 1028                                                               | 1028                                                              | 10900                                                        | 1.5                                      | 4.4                                            | 7.2                                                                  | --                                                                          |
| 24...    | 0824 | 29.5                                            | 1028                                                               | 1028                                                              | 14000                                                        | 2.0                                      | 3.7                                            | 7.2                                                                  | --                                                                          |
| 24...    | 0825 | 29.5                                            | 1028                                                               | 1028                                                              | 14100                                                        | 2.1                                      | 3.7                                            | 7.2                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265724082024400 - PEACE RIVER AT RIVER MILE 4.88 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| SEP 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0902 | 26.6                                            | 1028                                                               | 1028                                                              | 5880                                                         | .30                                      | 5.0                                            | 7.3                                                                  | 2.15                                                                        |
| 24...    | 0903 | 26.6                                            | 1028                                                               | 1028                                                              | 6000                                                         | .50                                      | 4.8                                            | 7.3                                                                  | --                                                                          |
| 24...    | 0904 | 27.1                                            | 1028                                                               | 1028                                                              | 16800                                                        | 1.0                                      | 4.4                                            | 7.2                                                                  | --                                                                          |
| 24...    | 0905 | 27.2                                            | 1028                                                               | 1028                                                              | 17700                                                        | 1.5                                      | 4.4                                            | 7.4                                                                  | --                                                                          |
| 24...    | 0906 | 27.2                                            | 1028                                                               | 1028                                                              | 21200                                                        | 2.0                                      | 4.6                                            | 7.4                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1001 | 27.0                                            | 1028                                                               | 1028                                                              | 9650                                                         | .30                                      | 5.6                                            | 7.2                                                                  | 2.45                                                                        |
| 20...    | 1002 | 26.6                                            | 1028                                                               | 1028                                                              | 13200                                                        | .50                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1003 | 26.5                                            | 1028                                                               | 1028                                                              | 27200                                                        | 1.0                                      | 3.8                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1004 | 26.5                                            | 1028                                                               | 1028                                                              | 28600                                                        | 1.5                                      | 3.5                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1005 | 26.5                                            | 1028                                                               | 1028                                                              | 28800                                                        | 2.0                                      | 3.5                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1006 | 26.5                                            | 1028                                                               | 1028                                                              | 28700                                                        | 2.3                                      | 3.5                                            | 7.5                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 0952 | 20.2                                            | 1028                                                               | 1028                                                              | 27900                                                        | .30                                      | 7.2                                            | 8.0                                                                  | 2.15                                                                        |
| 17...    | 0953 | 20.3                                            | 1028                                                               | 1028                                                              | 27600                                                        | .50                                      | 7.1                                            | 8.0                                                                  | --                                                                          |
| 17...    | 0954 | 20.4                                            | 1028                                                               | 1028                                                              | 27900                                                        | 1.0                                      | 6.9                                            | 8.0                                                                  | --                                                                          |
| 17...    | 0955 | 21.8                                            | 1028                                                               | 1028                                                              | 35000                                                        | 1.5                                      | 5.1                                            | 7.8                                                                  | --                                                                          |
| 17...    | 0956 | 22.0                                            | 1028                                                               | 1028                                                              | 34800                                                        | 2.0                                      | 5.0                                            | 7.8                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1024 | 20.3                                            | 1028                                                               | 1028                                                              | 28100                                                        | .30                                      | 6.7                                            | 7.7                                                                  | 1.95                                                                        |
| 21...    | 1025 | 20.3                                            | 1028                                                               | 1028                                                              | 27900                                                        | .50                                      | 6.7                                            | 7.7                                                                  | --                                                                          |
| 21...    | 1026 | 20.2                                            | 1028                                                               | 1028                                                              | 28700                                                        | 1.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 21...    | 1027 | 19.9                                            | 1028                                                               | 1028                                                              | 33000                                                        | 1.5                                      | 6.2                                            | 7.7                                                                  | --                                                                          |
| 21...    | 1028 | 19.9                                            | 1028                                                               | 1028                                                              | 33700                                                        | 1.8                                      | 5.8                                            | 7.7                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA

| WATER-QUALITY DATA |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
|--------------------|------|----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
| OCT 1998           |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...              | 1022 | 24.3                                   | 1028                                                               | 1028                                                              | 19500                                                        | .30                                      | 9.3                                            | 8.5                                                                  | 3.45                                                                        |
| 29...              | 1023 | 24.3                                   | 1028                                                               | 1028                                                              | 20600                                                        | .50                                      | 8.8                                            | 8.5                                                                  | --                                                                          |
| 29...              | 1024 | 24.4                                   | 1028                                                               | 1028                                                              | 26700                                                        | 1.0                                      | 6.2                                            | 8.1                                                                  | --                                                                          |
| 29...              | 1025 | 24.5                                   | 1028                                                               | 1028                                                              | 27300                                                        | 1.5                                      | 5.7                                            | 8.1                                                                  | --                                                                          |
| 29...              | 1026 | 24.5                                   | 1028                                                               | 1028                                                              | 27800                                                        | 2.0                                      | 5.5                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1027 | 24.3                                   | 1028                                                               | 1028                                                              | 28400                                                        | 2.5                                      | 5.2                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1028 | 24.4                                   | 1028                                                               | 1028                                                              | 28500                                                        | 3.0                                      | 5.2                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1029 | 24.4                                   | 1028                                                               | 1028                                                              | 28500                                                        | 3.3                                      | 5.2                                            | 8.0                                                                  | --                                                                          |
| NOV                |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...              | 1002 | 25.1                                   | 1028                                                               | 1028                                                              | 2100                                                         | .30                                      | 5.7                                            | 7.2                                                                  | 3.05                                                                        |
| 18...              | 1003 | 24.8                                   | 1028                                                               | 1028                                                              | 2310                                                         | .50                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...              | 1004 | 24.7                                   | 1028                                                               | 1028                                                              | 3260                                                         | 1.0                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...              | 1005 | 24.7                                   | 1028                                                               | 1028                                                              | 3510                                                         | 1.5                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...              | 1006 | 24.7                                   | 1028                                                               | 1028                                                              | 4080                                                         | 2.0                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...              | 1007 | 24.7                                   | 1028                                                               | 1028                                                              | 5040                                                         | 2.5                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...              | 1008 | 25.0                                   | 1028                                                               | 1028                                                              | 8010                                                         | 2.9                                      | 5.0                                            | 7.1                                                                  | --                                                                          |
| DEC                |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...              | 1004 | 21.4                                   | 1028                                                               | 1028                                                              | 27000                                                        | .30                                      | 7.7                                            | 8.1                                                                  | 3.55                                                                        |
| 29...              | 1005 | 21.3                                   | 1028                                                               | 1028                                                              | 27200                                                        | .50                                      | 7.4                                            | 8.1                                                                  | --                                                                          |
| 29...              | 1006 | 21.3                                   | 1028                                                               | 1028                                                              | 27300                                                        | 1.0                                      | 7.2                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1007 | 21.3                                   | 1028                                                               | 1028                                                              | 27700                                                        | 1.5                                      | 6.8                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1008 | 21.3                                   | 1028                                                               | 1028                                                              | 27900                                                        | 2.0                                      | 6.5                                            | 8.0                                                                  | --                                                                          |
| 29...              | 1009 | 21.3                                   | 1028                                                               | 1028                                                              | 28300                                                        | 2.5                                      | 6.2                                            | 7.9                                                                  | --                                                                          |
| 29...              | 1010 | 21.4                                   | 1028                                                               | 1028                                                              | 28500                                                        | 3.0                                      | 6.1                                            | 7.9                                                                  | --                                                                          |
| JAN 1999           |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...              | 1028 | 21.0                                   | 1028                                                               | 1028                                                              | 19000                                                        | .30                                      | 8.0                                            | 7.9                                                                  | 3.35                                                                        |
| 26...              | 1029 | 21.0                                   | 1028                                                               | 1028                                                              | 19100                                                        | .50                                      | 7.8                                            | 7.9                                                                  | --                                                                          |
| 26...              | 1030 | 21.0                                   | 1028                                                               | 1028                                                              | 19500                                                        | 1.0                                      | 7.1                                            | 7.8                                                                  | --                                                                          |
| 26...              | 1031 | 21.1                                   | 1028                                                               | 1028                                                              | 25400                                                        | 1.5                                      | 6.0                                            | 7.7                                                                  | --                                                                          |
| 26...              | 1032 | 21.2                                   | 1028                                                               | 1028                                                              | 28500                                                        | 2.0                                      | 5.6                                            | 7.7                                                                  | --                                                                          |
| 26...              | 1033 | 21.5                                   | 1028                                                               | 1028                                                              | 32100                                                        | 2.5                                      | 5.1                                            | 7.6                                                                  | --                                                                          |
| 26...              | 1034 | 21.6                                   | 1028                                                               | 1028                                                              | 33200                                                        | 3.0                                      | 4.9                                            | 7.6                                                                  | --                                                                          |
| 26...              | 1035 | 21.6                                   | 1028                                                               | 1028                                                              | 33400                                                        | 3.2                                      | 4.9                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0955 | 16.4                                            | 1028                                                               | 1028                                                              | 24200                                                        | .30                                      | 8.3                                            | 8.0                                                                  | 3.45                                                                        |
| 23...    | 0956 | 16.4                                            | 1028                                                               | 1028                                                              | 24100                                                        | .50                                      | 8.3                                            | 8.0                                                                  | --                                                                          |
| 23...    | 0957 | 16.4                                            | 1028                                                               | 1028                                                              | 24200                                                        | 1.0                                      | 8.2                                            | 8.0                                                                  | --                                                                          |
| 23...    | 0958 | 16.6                                            | 1028                                                               | 1028                                                              | 25100                                                        | 1.5                                      | 8.0                                            | 8.0                                                                  | --                                                                          |
| 23...    | 0959 | 16.9                                            | 1028                                                               | 1028                                                              | 26100                                                        | 2.0                                      | 7.5                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1000 | 17.1                                            | 1028                                                               | 1028                                                              | 27600                                                        | 2.5                                      | 6.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1001 | 17.6                                            | 1028                                                               | 1028                                                              | 29500                                                        | 3.0                                      | 6.4                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1002 | 17.7                                            | 1028                                                               | 1028                                                              | 29700                                                        | 3.3                                      | 6.3                                            | 7.8                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0953 | 21.2                                            | 1028                                                               | 1028                                                              | 28800                                                        | .30                                      | 7.3                                            | 7.9                                                                  | 3.35                                                                        |
| 23...    | 0954 | 21.2                                            | 1028                                                               | 1028                                                              | 28800                                                        | .50                                      | 7.3                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0955 | 21.3                                            | 1028                                                               | 1028                                                              | 29500                                                        | 1.0                                      | 7.2                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0956 | 21.3                                            | 1028                                                               | 1028                                                              | 30300                                                        | 1.5                                      | 6.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0957 | 21.4                                            | 1028                                                               | 1028                                                              | 31200                                                        | 2.0                                      | 6.7                                            | 7.9                                                                  | --                                                                          |
| 23...    | 0958 | 21.4                                            | 1028                                                               | 1028                                                              | 31400                                                        | 2.5                                      | 6.4                                            | 7.8                                                                  | --                                                                          |
| 23...    | 0959 | 21.4                                            | 1028                                                               | 1028                                                              | 31500                                                        | 3.0                                      | 6.3                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1000 | 21.5                                            | 1028                                                               | 1028                                                              | 31500                                                        | 3.2                                      | 6.2                                            | 7.8                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 0844 | 21.5                                            | 1028                                                               | 1028                                                              | 31200                                                        | .30                                      | 7.0                                            | 7.8                                                                  | 3.35                                                                        |
| 20...    | 0845 | 21.5                                            | 1028                                                               | 1028                                                              | 31600                                                        | .50                                      | 7.0                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0846 | 21.5                                            | 1028                                                               | 1028                                                              | 31500                                                        | 1.0                                      | 6.9                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0847 | 21.5                                            | 1028                                                               | 1028                                                              | 31700                                                        | 1.5                                      | 6.9                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0848 | 21.7                                            | 1028                                                               | 1028                                                              | 32400                                                        | 2.0                                      | 6.8                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0849 | 21.7                                            | 1028                                                               | 1028                                                              | 32500                                                        | 2.5                                      | 6.8                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0850 | 21.7                                            | 1028                                                               | 1028                                                              | 32400                                                        | 3.0                                      | 6.7                                            | 7.8                                                                  | --                                                                          |
| 20...    | 0851 | 21.7                                            | 1028                                                               | 1028                                                              | 32600                                                        | 3.2                                      | 6.7                                            | 7.8                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA  
 WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 0901 | 28.4                                            | 1028                                                               | 1028                                                              | 28600                                                        | .30                                      | 5.4                                            | 7.8                                                                  | 3.45                                                                        |
| 26...    | 0902 | 28.3                                            | 1028                                                               | 1028                                                              | 28700                                                        | .50                                      | 5.4                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0903 | 28.2                                            | 1028                                                               | 1028                                                              | 29700                                                        | 1.0                                      | 5.3                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0904 | 28.3                                            | 1028                                                               | 1028                                                              | 31000                                                        | 1.5                                      | 5.1                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0905 | 28.3                                            | 1028                                                               | 1028                                                              | 31800                                                        | 2.0                                      | 4.9                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0906 | 28.4                                            | 1028                                                               | 1028                                                              | 31700                                                        | 2.5                                      | 4.7                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0907 | 28.5                                            | 1028                                                               | 1028                                                              | 33100                                                        | 3.0                                      | 4.5                                            | 7.8                                                                  | --                                                                          |
| 26...    | 0908 | 28.5                                            | 1028                                                               | 1028                                                              | 34600                                                        | 3.3                                      | 4.4                                            | 7.8                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0843 | 27.6                                            | 1028                                                               | 1028                                                              | 12000                                                        | .30                                      | 5.1                                            | 7.2                                                                  | 3.55                                                                        |
| 23...    | 0844 | 27.9                                            | 1028                                                               | 1028                                                              | 15400                                                        | .50                                      | 4.7                                            | 7.2                                                                  | --                                                                          |
| 23...    | 0845 | 28.5                                            | 1028                                                               | 1028                                                              | 30900                                                        | 1.0                                      | 2.7                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0846 | 28.6                                            | 1028                                                               | 1028                                                              | 32400                                                        | 1.5                                      | 2.4                                            | 7.4                                                                  | --                                                                          |
| 23...    | 0847 | 28.9                                            | 1028                                                               | 1028                                                              | 36400                                                        | 2.0                                      | 2.4                                            | 7.4                                                                  | --                                                                          |
| 23...    | 0848 | 28.9                                            | 1028                                                               | 1028                                                              | 38300                                                        | 2.5                                      | 2.3                                            | 7.5                                                                  | --                                                                          |
| 23...    | 0849 | 28.9                                            | 1028                                                               | 1028                                                              | 39200                                                        | 3.0                                      | 2.2                                            | 7.5                                                                  | --                                                                          |
| 23...    | 0850 | 28.9                                            | 1028                                                               | 1028                                                              | 39400                                                        | 3.4                                      | 2.2                                            | 7.6                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 0910 | 32.1                                            | 1028                                                               | 1028                                                              | 1900                                                         | .30                                      | 5.1                                            | 7.8                                                                  | 3.25                                                                        |
| 28...    | 0911 | 31.7                                            | 1028                                                               | 1028                                                              | 2000                                                         | .50                                      | 4.8                                            | 7.7                                                                  | --                                                                          |
| 28...    | 0912 | 31.5                                            | 1028                                                               | 1028                                                              | 2170                                                         | 1.0                                      | 4.6                                            | 7.6                                                                  | --                                                                          |
| 28...    | 0913 | 31.5                                            | 1028                                                               | 1028                                                              | 2620                                                         | 1.5                                      | 4.4                                            | 7.6                                                                  | --                                                                          |
| 28...    | 0914 | 31.6                                            | 1028                                                               | 1028                                                              | 3660                                                         | 2.0                                      | 4.3                                            | 7.5                                                                  | --                                                                          |
| 28...    | 0915 | 32.0                                            | 1028                                                               | 1028                                                              | 7290                                                         | 2.5                                      | 4.0                                            | 7.3                                                                  | --                                                                          |
| 28...    | 0916 | 32.1                                            | 1028                                                               | 1028                                                              | 9890                                                         | 3.0                                      | 3.2                                            | 7.3                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0836 | 28.0                                            | 1028                                                               | 1028                                                              | 425                                                          | .30                                      | 4.6                                            | 6.7                                                                  | 3.55                                                                        |
| 24...    | 0837 | 28.0                                            | 1028                                                               | 1028                                                              | 436                                                          | .50                                      | 4.5                                            | 6.8                                                                  | --                                                                          |
| 24...    | 0838 | 27.9                                            | 1028                                                               | 1028                                                              | 426                                                          | 1.0                                      | 4.4                                            | 6.8                                                                  | --                                                                          |
| 24...    | 0839 | 27.8                                            | 1028                                                               | 1028                                                              | 454                                                          | 1.5                                      | 4.6                                            | 6.8                                                                  | --                                                                          |
| 24...    | 0840 | 27.8                                            | 1028                                                               | 1028                                                              | 472                                                          | 2.0                                      | 4.6                                            | 6.8                                                                  | --                                                                          |
| 24...    | 0841 | 27.8                                            | 1028                                                               | 1028                                                              | 499                                                          | 2.5                                      | 4.6                                            | 6.9                                                                  | --                                                                          |
| 24...    | 0842 | 28.3                                            | 1028                                                               | 1028                                                              | 3220                                                         | 3.0                                      | 4.1                                            | 6.8                                                                  | --                                                                          |
| 24...    | 0843 | 29.0                                            | 1028                                                               | 1028                                                              | 7400                                                         | 3.4                                      | 3.2                                            | 6.7                                                                  | --                                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA

| WATER-QUALITY DATA |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
|--------------------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
| SEP 1999           |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...              | 0912 | 26.2                                            | 1028                                                               | 1028                                                              | 2260                                                         | .30                                      | 4.6                                            | 7.3                                                                  | 3.15                                                                        |
| 24...              | 0913 | 26.2                                            | 1028                                                               | 1028                                                              | 2360                                                         | .50                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| 24...              | 0914 | 26.1                                            | 1028                                                               | 1028                                                              | 3000                                                         | 1.0                                      | 4.6                                            | 7.2                                                                  | --                                                                          |
| 24...              | 0915 | 26.1                                            | 1028                                                               | 1028                                                              | 3400                                                         | 1.5                                      | 4.6                                            | 7.2                                                                  | --                                                                          |
| 24...              | 0916 | 26.2                                            | 1028                                                               | 1028                                                              | 4140                                                         | 2.0                                      | 4.5                                            | 7.2                                                                  | --                                                                          |
| 24...              | 0917 | 26.3                                            | 1028                                                               | 1028                                                              | 6940                                                         | 2.5                                      | 4.4                                            | 7.2                                                                  | --                                                                          |
| 24...              | 0918 | 26.9                                            | 1028                                                               | 1028                                                              | 15600                                                        | 3.0                                      | 3.8                                            | 7.2                                                                  | --                                                                          |
| OCT                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...              | 1010 | 26.8                                            | 1028                                                               | 1028                                                              | 8330                                                         | .30                                      | 6.0                                            | 7.2                                                                  | 3.75                                                                        |
| 20...              | 1011 | 26.7                                            | 1028                                                               | 1028                                                              | 9140                                                         | .50                                      | 5.9                                            | 7.3                                                                  | --                                                                          |
| 20...              | 1012 | 26.8                                            | 1028                                                               | 1028                                                              | 19300                                                        | 1.0                                      | 4.5                                            | 7.2                                                                  | --                                                                          |
| 20...              | 1013 | 26.8                                            | 1028                                                               | 1028                                                              | 20900                                                        | 1.5                                      | 4.3                                            | 7.3                                                                  | --                                                                          |
| 20...              | 1014 | 26.8                                            | 1028                                                               | 1028                                                              | 22200                                                        | 2.0                                      | 4.2                                            | 7.3                                                                  | --                                                                          |
| 20...              | 1015 | 26.7                                            | 1028                                                               | 1028                                                              | 24600                                                        | 2.5                                      | 3.8                                            | 7.4                                                                  | --                                                                          |
| 20...              | 1016 | 26.7                                            | 1028                                                               | 1028                                                              | 26500                                                        | 3.0                                      | 3.7                                            | 7.4                                                                  | --                                                                          |
| 20...              | 1017 | 26.7                                            | 1028                                                               | 1028                                                              | 26700                                                        | 3.5                                      | 3.7                                            | 7.4                                                                  | --                                                                          |
| NOV                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...              | 1001 | 20.2                                            | 1028                                                               | 1028                                                              | 20500                                                        | .30                                      | 7.9                                            | 8.1                                                                  | 3.15                                                                        |
| 17...              | 1002 | 20.1                                            | 1028                                                               | 1028                                                              | 20500                                                        | .50                                      | 7.9                                            | 8.1                                                                  | --                                                                          |
| 17...              | 1003 | 20.3                                            | 1028                                                               | 1028                                                              | 21100                                                        | 1.0                                      | 7.6                                            | 8.1                                                                  | --                                                                          |
| 17...              | 1004 | 21.1                                            | 1028                                                               | 1028                                                              | 28300                                                        | 1.5                                      | 6.2                                            | 7.9                                                                  | --                                                                          |
| 17...              | 1005 | 21.8                                            | 1028                                                               | 1028                                                              | 32300                                                        | 2.0                                      | 5.5                                            | 7.8                                                                  | --                                                                          |
| 17...              | 1006 | 21.9                                            | 1028                                                               | 1028                                                              | 33300                                                        | 2.5                                      | 5.4                                            | 7.8                                                                  | --                                                                          |
| 17...              | 1007 | 22.0                                            | 1028                                                               | 1028                                                              | 33300                                                        | 3.0                                      | 5.3                                            | 7.8                                                                  | --                                                                          |
| DEC                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...              | 1036 | 20.4                                            | 1028                                                               | 1028                                                              | 20500                                                        | .30                                      | 6.3                                            | 7.6                                                                  | 3.15                                                                        |
| 21...              | 1037 | 20.5                                            | 1028                                                               | 1028                                                              | 20600                                                        | .50                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 21...              | 1038 | 20.5                                            | 1028                                                               | 1028                                                              | 20900                                                        | 1.0                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| 21...              | 1039 | 20.5                                            | 1028                                                               | 1028                                                              | 21900                                                        | 1.5                                      | 6.6                                            | 7.6                                                                  | --                                                                          |
| 21...              | 1040 | 20.1                                            | 1028                                                               | 1028                                                              | 24200                                                        | 2.0                                      | 6.2                                            | 7.6                                                                  | --                                                                          |
| 21...              | 1041 | 20.1                                            | 1028                                                               | 1028                                                              | 24300                                                        | 2.5                                      | 6.2                                            | 7.6                                                                  | --                                                                          |
| 21...              | 1042 | 20.1                                            | 1028                                                               | 1028                                                              | 24600                                                        | 3.0                                      | 6.2                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1056 | 24.7                                            | 1028                                                               | 1028                                                              | 11100                                                        | .30                                      | 10.8                                           | 8.8                                                                  | 2.55                                                                        |
| 29...    | 1057 | 24.6                                            | 1028                                                               | 1028                                                              | 12000                                                        | .50                                      | 10.5                                           | 8.8                                                                  | --                                                                          |
| 29...    | 1058 | 24.1                                            | 1028                                                               | 1028                                                              | 16200                                                        | 1.0                                      | 8.5                                            | 8.5                                                                  | --                                                                          |
| 29...    | 1059 | 24.2                                            | 1028                                                               | 1028                                                              | 21700                                                        | 1.5                                      | 6.8                                            | 8.2                                                                  | --                                                                          |
| 29...    | 1100 | 24.3                                            | 1028                                                               | 1028                                                              | 23200                                                        | 2.0                                      | 6.1                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1101 | 24.4                                            | 1028                                                               | 1028                                                              | 24500                                                        | 2.4                                      | 5.7                                            | 8.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1045 | 24.6                                            | 1028                                                               | 1028                                                              | 404                                                          | .30                                      | 5.5                                            | 7.3                                                                  | 2.05                                                                        |
| 18...    | 1046 | 24.3                                            | 1028                                                               | 1028                                                              | 426                                                          | .50                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1047 | 24.2                                            | 1028                                                               | 1028                                                              | 437                                                          | 1.0                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1048 | 24.1                                            | 1028                                                               | 1028                                                              | 442                                                          | 1.5                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1049 | 24.1                                            | 1028                                                               | 1028                                                              | 551                                                          | 1.9                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1032 | 21.5                                            | 1028                                                               | 1028                                                              | 21300                                                        | .30                                      | 7.1                                            | 7.9                                                                  | 3.55                                                                        |
| 29...    | 1033 | 21.4                                            | 1028                                                               | 1028                                                              | 22200                                                        | .50                                      | 7.0                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1034 | 21.4                                            | 1028                                                               | 1028                                                              | 21100                                                        | 1.0                                      | 6.9                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1035 | 21.4                                            | 1028                                                               | 1028                                                              | 23100                                                        | 1.5                                      | 6.9                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1036 | 21.4                                            | 1028                                                               | 1028                                                              | 21800                                                        | 2.0                                      | 7.2                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1037 | 21.4                                            | 1028                                                               | 1028                                                              | 23700                                                        | 2.5                                      | 7.2                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1038 | 21.4                                            | 1028                                                               | 1028                                                              | 23600                                                        | 3.0                                      | 7.2                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1039 | 21.5                                            | 1028                                                               | 1028                                                              | 23700                                                        | 3.4                                      | 7.2                                            | 8.0                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1057 | 21.1                                            | 1028                                                               | 1028                                                              | 10900                                                        | .30                                      | 8.7                                            | 8.0                                                                  | 2.95                                                                        |
| 26...    | 1058 | 21.0                                            | 1028                                                               | 1028                                                              | 11700                                                        | .50                                      | 8.5                                            | 8.0                                                                  | --                                                                          |
| 26...    | 1059 | 20.8                                            | 1028                                                               | 1028                                                              | 13200                                                        | 1.0                                      | 8.1                                            | 7.9                                                                  | --                                                                          |
| 26...    | 1100 | 20.6                                            | 1028                                                               | 1028                                                              | 16700                                                        | 1.5                                      | 7.5                                            | 7.8                                                                  | --                                                                          |
| 26...    | 1101 | 20.4                                            | 1028                                                               | 1028                                                              | 23300                                                        | 2.0                                      | 6.4                                            | 7.7                                                                  | --                                                                          |
| 26...    | 1102 | 20.4                                            | 1028                                                               | 1028                                                              | 24000                                                        | 2.5                                      | 6.3                                            | 7.7                                                                  | --                                                                          |
| 26...    | 1103 | 20.4                                            | 1028                                                               | 1028                                                              | 23700                                                        | 2.8                                      | 6.3                                            | 7.7                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1020 | 17.0                                            | 1028                                                               | 1028                                                              | 19500                                                        | .30                                      | 8.1                                            | 7.9                                                                  | 2.45                                                                        |
| 23...    | 1021 | 17.0                                            | 1028                                                               | 1028                                                              | 19500                                                        | .50                                      | 8.0                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1022 | 16.9                                            | 1028                                                               | 1028                                                              | 21400                                                        | 1.0                                      | 7.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1023 | 16.9                                            | 1028                                                               | 1028                                                              | 22100                                                        | 1.5                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1024 | 16.8                                            | 1028                                                               | 1028                                                              | 23400                                                        | 2.0                                      | 7.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1025 | 16.8                                            | 1028                                                               | 1028                                                              | 24500                                                        | 2.3                                      | 7.7                                            | 7.9                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1020 | 21.8                                            | 1028                                                               | 1028                                                              | 24500                                                        | .30                                      | 6.6                                            | 7.7                                                                  | 2.55                                                                        |
| 23...    | 1021 | 21.8                                            | 1028                                                               | 1028                                                              | 24500                                                        | .50                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1022 | 21.7                                            | 1028                                                               | 1028                                                              | 24500                                                        | 1.0                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1023 | 21.4                                            | 1028                                                               | 1028                                                              | 26200                                                        | 1.5                                      | 6.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1024 | 21.1                                            | 1028                                                               | 1028                                                              | 28900                                                        | 2.0                                      | 6.1                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1025 | 21.1                                            | 1028                                                               | 1028                                                              | 28500                                                        | 2.4                                      | 6.0                                            | 7.7                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 0913 | 21.4                                            | 1028                                                               | 1028                                                              | 28200                                                        | .30                                      | 6.6                                            | 7.7                                                                  | 2.15                                                                        |
| 20...    | 0914 | 21.4                                            | 1028                                                               | 1028                                                              | 28200                                                        | .50                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0915 | 21.3                                            | 1028                                                               | 1028                                                              | 28600                                                        | 1.0                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0916 | 21.0                                            | 1028                                                               | 1028                                                              | 29100                                                        | 1.5                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| 20...    | 0917 | 21.0                                            | 1028                                                               | 1028                                                              | 29300                                                        | 2.0                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 0930 | 28.4                                            | 1028                                                               | 1028                                                              | 24500                                                        | .30                                      | 5.2                                            | 7.6                                                                  | 2.55                                                                        |
| 26...    | 0931 | 28.3                                            | 1028                                                               | 1028                                                              | 24500                                                        | .50                                      | 5.2                                            | 7.6                                                                  | --                                                                          |
| 26...    | 0932 | 28.3                                            | 1028                                                               | 1028                                                              | 24700                                                        | 1.0                                      | 5.2                                            | 7.6                                                                  | --                                                                          |
| 26...    | 0933 | 28.3                                            | 1028                                                               | 1028                                                              | 24800                                                        | 1.5                                      | 5.2                                            | 7.6                                                                  | --                                                                          |
| 26...    | 0934 | 28.3                                            | 1028                                                               | 1028                                                              | 25000                                                        | 2.0                                      | 5.2                                            | 7.7                                                                  | --                                                                          |
| 26...    | 0935 | 28.3                                            | 1028                                                               | 1028                                                              | 25200                                                        | 2.4                                      | 5.1                                            | 7.7                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0913 | 28.2                                            | 1028                                                               | 1028                                                              | 7280                                                         | .30                                      | 4.7                                            | 7.2                                                                  | 3.45                                                                        |
| 23...    | 0914 | 28.1                                            | 1028                                                               | 1028                                                              | 8090                                                         | .50                                      | 4.5                                            | 7.2                                                                  | --                                                                          |
| 23...    | 0915 | 27.8                                            | 1028                                                               | 1028                                                              | 10100                                                        | 1.0                                      | 4.1                                            | 7.1                                                                  | --                                                                          |
| 23...    | 0916 | 28.0                                            | 1028                                                               | 1028                                                              | 19700                                                        | 1.5                                      | 3.1                                            | 7.1                                                                  | --                                                                          |
| 23...    | 0917 | 28.3                                            | 1028                                                               | 1028                                                              | 25300                                                        | 2.0                                      | 2.5                                            | 7.2                                                                  | --                                                                          |
| 23...    | 0918 | 28.7                                            | 1028                                                               | 1028                                                              | 33400                                                        | 2.5                                      | 2.2                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0919 | 28.8                                            | 1028                                                               | 1028                                                              | 34200                                                        | 3.0                                      | 2.1                                            | 7.3                                                                  | --                                                                          |
| 23...    | 0920 | 28.8                                            | 1028                                                               | 1028                                                              | 35500                                                        | 3.3                                      | 2.1                                            | 7.4                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 0940 | 32.4                                            | 1028                                                               | 1028                                                              | 535                                                          | .30                                      | 4.8                                            | 7.6                                                                  | 2.95                                                                        |
| 28...    | 0941 | 32.1                                            | 1028                                                               | 1028                                                              | 534                                                          | .50                                      | 4.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 0942 | 31.3                                            | 1028                                                               | 1028                                                              | 569                                                          | 1.0                                      | 4.1                                            | 7.4                                                                  | --                                                                          |
| 28...    | 0943 | 31.2                                            | 1028                                                               | 1028                                                              | 596                                                          | 1.5                                      | 4.1                                            | 7.3                                                                  | --                                                                          |
| 28...    | 0944 | 31.2                                            | 1028                                                               | 1028                                                              | 586                                                          | 2.0                                      | 4.0                                            | 7.3                                                                  | --                                                                          |
| 28...    | 0945 | 31.1                                            | 1028                                                               | 1028                                                              | 596                                                          | 2.5                                      | 4.0                                            | 7.3                                                                  | --                                                                          |
| 28...    | 0946 | 31.1                                            | 1028                                                               | 1028                                                              | 598                                                          | 2.8                                      | 4.0                                            | 7.3                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0859 | 28.6                                            | 1028                                                               | 1028                                                              | 344                                                          | .30                                      | 5.4                                            | 7.0                                                                  | 3.35                                                                        |
| 24...    | 0900 | 28.5                                            | 1028                                                               | 1028                                                              | 344                                                          | .50                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0901 | 28.4                                            | 1028                                                               | 1028                                                              | 346                                                          | 1.0                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0902 | 28.2                                            | 1028                                                               | 1028                                                              | 346                                                          | 1.5                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0903 | 28.2                                            | 1028                                                               | 1028                                                              | 339                                                          | 2.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0904 | 28.2                                            | 1028                                                               | 1028                                                              | 349                                                          | 2.5                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0905 | 28.2                                            | 1028                                                               | 1028                                                              | 340                                                          | 3.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0906 | 28.2                                            | 1028                                                               | 1028                                                              | 340                                                          | 3.2                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0945 | 27.0                                            | 1028                                                               | 1028                                                              | 731                                                          | .30                                      | 4.8                                            | 7.1                                                                  | 2.55                                                                        |
| 24...    | 0946 | 26.9                                            | 1028                                                               | 1028                                                              | 744                                                          | .50                                      | 4.6                                            | 7.1                                                                  | --                                                                          |
| 24...    | 0947 | 26.5                                            | 1028                                                               | 1028                                                              | 743                                                          | 1.0                                      | 4.4                                            | 7.1                                                                  | --                                                                          |
| 24...    | 0948 | 26.4                                            | 1028                                                               | 1028                                                              | 773                                                          | 1.5                                      | 4.4                                            | 7.1                                                                  | --                                                                          |
| 24...    | 0949 | 26.3                                            | 1028                                                               | 1028                                                              | 788                                                          | 2.0                                      | 4.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 0950 | 26.3                                            | 1028                                                               | 1028                                                              | 776                                                          | 2.4                                      | 4.3                                            | 7.1                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1037 | 27.2                                            | 1028                                                               | 1028                                                              | 4110                                                         | .30                                      | 5.2                                            | 7.2                                                                  | 2.45                                                                        |
| 20...    | 1038 | 27.0                                            | 1028                                                               | 1028                                                              | 4620                                                         | .50                                      | 4.9                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1039 | 26.7                                            | 1028                                                               | 1028                                                              | 5600                                                         | 1.0                                      | 4.7                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1040 | 26.8                                            | 1028                                                               | 1028                                                              | 6270                                                         | 1.5                                      | 4.8                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1041 | 26.8                                            | 1028                                                               | 1028                                                              | 7320                                                         | 2.0                                      | 4.6                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1042 | 26.7                                            | 1028                                                               | 1028                                                              | 7820                                                         | 2.3                                      | 4.5                                            | 7.1                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1037 | 21.7                                            | 1028                                                               | 1028                                                              | 16000                                                        | .30                                      | 8.5                                            | 8.1                                                                  | 2.85                                                                        |
| 17...    | 1038 | 21.7                                            | 1028                                                               | 1028                                                              | 16000                                                        | .50                                      | 8.4                                            | 8.1                                                                  | --                                                                          |
| 17...    | 1039 | 21.5                                            | 1028                                                               | 1028                                                              | 16900                                                        | 1.0                                      | 7.9                                            | 8.0                                                                  | --                                                                          |
| 17...    | 1040 | 21.8                                            | 1028                                                               | 1028                                                              | 24400                                                        | 1.5                                      | 5.5                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1041 | 22.6                                            | 1028                                                               | 1028                                                              | 27600                                                        | 2.0                                      | 5.2                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1042 | 22.3                                            | 1028                                                               | 1028                                                              | 29100                                                        | 2.5                                      | 5.3                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1043 | 22.3                                            | 1028                                                               | 1028                                                              | 29100                                                        | 2.7                                      | 5.3                                            | 7.8                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1103 | 20.5                                            | 1028                                                               | 1028                                                              | 17700                                                        | .30                                      | 6.1                                            | 7.5                                                                  | 2.85                                                                        |
| 21...    | 1104 | 20.5                                            | 1028                                                               | 1028                                                              | 18700                                                        | .50                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1105 | 20.5                                            | 1028                                                               | 1028                                                              | 17800                                                        | 1.0                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1106 | 20.5                                            | 1028                                                               | 1028                                                              | 18100                                                        | 1.5                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1107 | 20.5                                            | 1028                                                               | 1028                                                              | 18500                                                        | 2.0                                      | 6.0                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1108 | 20.5                                            | 1028                                                               | 1028                                                              | 17900                                                        | 2.5                                      | 6.1                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1109 | 20.4                                            | 1028                                                               | 1028                                                              | 18500                                                        | 2.7                                      | 6.1                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1148 | 25.2                                            | 1028                                                               | 1028                                                              | 3280                                                         | .30                                      | 7.9                                            | 8.0                                                                  | 3.45                                                                        |
| 29...    | 1149 | 25.0                                            | 1028                                                               | 1028                                                              | 3880                                                         | .50                                      | 8.1                                            | 8.1                                                                  | --                                                                          |
| 29...    | 1150 | 24.8                                            | 1028                                                               | 1028                                                              | 4920                                                         | 1.0                                      | 8.4                                            | 8.2                                                                  | --                                                                          |
| 29...    | 1151 | 24.6                                            | 1028                                                               | 1028                                                              | 8120                                                         | 1.5                                      | 7.7                                            | 8.2                                                                  | --                                                                          |
| 29...    | 1152 | 24.9                                            | 1028                                                               | 1028                                                              | 12300                                                        | 2.0                                      | 7.6                                            | 8.3                                                                  | --                                                                          |
| 29...    | 1153 | 24.9                                            | 1028                                                               | 1028                                                              | 12700                                                        | 2.5                                      | 7.6                                            | 8.3                                                                  | --                                                                          |
| 29...    | 1154 | 24.9                                            | 1028                                                               | 1028                                                              | 12700                                                        | 3.0                                      | 7.6                                            | 8.3                                                                  | --                                                                          |
| 29...    | 1155 | 24.9                                            | 1028                                                               | 1028                                                              | 12700                                                        | 3.3                                      | 7.6                                            | 8.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1140 | 24.6                                            | 1028                                                               | 1028                                                              | 328                                                          | .30                                      | 5.7                                            | 7.3                                                                  | 3.65                                                                        |
| 18...    | 1141 | 24.6                                            | 1028                                                               | 1028                                                              | 319                                                          | .50                                      | 5.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1142 | 24.4                                            | 1028                                                               | 1028                                                              | 320                                                          | 1.0                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1143 | 24.4                                            | 1028                                                               | 1028                                                              | 318                                                          | 1.5                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1144 | 24.5                                            | 1028                                                               | 1028                                                              | 322                                                          | 2.0                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1145 | 24.5                                            | 1028                                                               | 1028                                                              | 333                                                          | 2.5                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1146 | 24.5                                            | 1028                                                               | 1028                                                              | 325                                                          | 3.0                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1147 | 24.4                                            | 1028                                                               | 1028                                                              | 329                                                          | 3.5                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1121 | 22.1                                            | 1028                                                               | 1028                                                              | 12300                                                        | .30                                      | 7.9                                            | 7.9                                                                  | 5.35                                                                        |
| 29...    | 1122 | 22.0                                            | 1028                                                               | 1028                                                              | 12600                                                        | .50                                      | 7.8                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1123 | 22.1                                            | 1028                                                               | 1028                                                              | 12700                                                        | 1.0                                      | 7.8                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1124 | 22.1                                            | 1028                                                               | 1028                                                              | 12800                                                        | 1.5                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1125 | 22.1                                            | 1028                                                               | 1028                                                              | 12700                                                        | 2.0                                      | 7.6                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1126 | 22.0                                            | 1028                                                               | 1028                                                              | 12900                                                        | 2.5                                      | 7.1                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1127 | 22.1                                            | 1028                                                               | 1028                                                              | 13400                                                        | 3.0                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1128 | 22.0                                            | 1028                                                               | 1028                                                              | 13700                                                        | 3.5                                      | 7.5                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1129 | 21.9                                            | 1028                                                               | 1028                                                              | 13900                                                        | 4.0                                      | 6.3                                            | 7.7                                                                  | --                                                                          |
| 29...    | 1130 | 21.8                                            | 1028                                                               | 1028                                                              | 14600                                                        | 4.5                                      | 5.8                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1131 | 21.8                                            | 1028                                                               | 1028                                                              | 14700                                                        | 5.0                                      | 5.8                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1208 | 21.4                                            | 1028                                                               | 1028                                                              | 1890                                                         | .30                                      | 6.6                                            | 7.7                                                                  | 2.95                                                                        |
| 26...    | 1209 | 21.5                                            | 1028                                                               | 1028                                                              | 1860                                                         | .50                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 26...    | 1210 | 21.2                                            | 1028                                                               | 1028                                                              | 2560                                                         | 1.0                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| 26...    | 1211 | 21.0                                            | 1028                                                               | 1028                                                              | 5100                                                         | 1.5                                      | 5.6                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1212 | 21.0                                            | 1028                                                               | 1028                                                              | 5590                                                         | 2.0                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1213 | 21.0                                            | 1028                                                               | 1028                                                              | 6260                                                         | 2.5                                      | 5.2                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1214 | 21.1                                            | 1028                                                               | 1028                                                              | 7230                                                         | 2.8                                      | 5.1                                            | 7.3                                                                  | --                                                                          |
| FEB      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1134 | 18.4                                            | 1028                                                               | 1028                                                              | 8710                                                         | .30                                      | 8.8                                            | 7.9                                                                  | 4.45                                                                        |
| 23...    | 1135 | 18.4                                            | 1028                                                               | 1028                                                              | 8860                                                         | .50                                      | 8.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1136 | 18.3                                            | 1028                                                               | 1028                                                              | 9090                                                         | 1.0                                      | 8.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1137 | 18.1                                            | 1028                                                               | 1028                                                              | 9970                                                         | 1.5                                      | 8.5                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1138 | 18.1                                            | 1028                                                               | 1028                                                              | 10800                                                        | 2.0                                      | 8.3                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1139 | 18.1                                            | 1028                                                               | 1028                                                              | 11000                                                        | 2.5                                      | 8.1                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1140 | 18.2                                            | 1028                                                               | 1028                                                              | 12500                                                        | 3.0                                      | 7.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1141 | 18.6                                            | 1028                                                               | 1028                                                              | 14800                                                        | 3.5                                      | 6.8                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1142 | 18.6                                            | 1028                                                               | 1028                                                              | 14900                                                        | 4.0                                      | 6.8                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1143 | 18.6                                            | 1028                                                               | 1028                                                              | 14700                                                        | 4.3                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1121 | 23.1                                            | 1028                                                               | 1028                                                              | 12400                                                        | .30                                      | 6.9                                            | 7.6                                                                  | 2.95                                                                        |
| 23...    | 1122 | 22.6                                            | 1028                                                               | 1028                                                              | 13800                                                        | .50                                      | 6.7                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1123 | 22.4                                            | 1028                                                               | 1028                                                              | 14500                                                        | 1.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1124 | 22.3                                            | 1028                                                               | 1028                                                              | 15200                                                        | 1.5                                      | 6.0                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1125 | 22.2                                            | 1028                                                               | 1028                                                              | 15500                                                        | 2.0                                      | 5.9                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1126 | 22.2                                            | 1028                                                               | 1028                                                              | 15900                                                        | 2.5                                      | 5.8                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1127 | 22.2                                            | 1028                                                               | 1028                                                              | 16200                                                        | 2.8                                      | 5.7                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| APR 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1001 | 22.8                                            | 1028                                                               | 1028                                                              | 19300                                                        | .30                                      | 6.3                                            | 7.5                                                                  | 3.85                                                                        |
| 20...    | 1002 | 22.7                                            | 1028                                                               | 1028                                                              | 19700                                                        | .50                                      | 6.2                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1003 | 22.6                                            | 1028                                                               | 1028                                                              | 19900                                                        | 1.0                                      | 6.2                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1004 | 22.7                                            | 1028                                                               | 1028                                                              | 20300                                                        | 1.5                                      | 5.8                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1005 | 22.6                                            | 1028                                                               | 1028                                                              | 21100                                                        | 2.0                                      | 5.7                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1006 | 22.6                                            | 1028                                                               | 1028                                                              | 21100                                                        | 2.5                                      | 5.7                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1007 | 22.6                                            | 1028                                                               | 1028                                                              | 21300                                                        | 3.0                                      | 5.7                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1008 | 22.6                                            | 1028                                                               | 1028                                                              | 21400                                                        | 3.5                                      | 5.6                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1009 | 22.6                                            | 1028                                                               | 1028                                                              | 21800                                                        | 3.7                                      | 5.6                                            | 7.5                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1009 | 29.2                                            | 1028                                                               | 1028                                                              | 15000                                                        | .30                                      | 5.8                                            | 7.5                                                                  | 4.05                                                                        |
| 26...    | 1010 | 29.1                                            | 1028                                                               | 1028                                                              | 15600                                                        | .50                                      | 5.6                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1011 | 28.9                                            | 1028                                                               | 1028                                                              | 15700                                                        | 1.0                                      | 5.5                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1012 | 28.9                                            | 1028                                                               | 1028                                                              | 16500                                                        | 1.5                                      | 5.5                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1013 | 28.9                                            | 1028                                                               | 1028                                                              | 17200                                                        | 2.0                                      | 5.5                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1014 | 28.9                                            | 1028                                                               | 1028                                                              | 17400                                                        | 2.5                                      | 5.3                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1015 | 28.8                                            | 1028                                                               | 1028                                                              | 18100                                                        | 3.0                                      | 5.0                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1016 | 28.7                                            | 1028                                                               | 1028                                                              | 19200                                                        | 3.5                                      | 4.9                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1017 | 28.7                                            | 1028                                                               | 1028                                                              | 19000                                                        | 3.9                                      | 4.9                                            | 7.5                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 0958 | 28.2                                            | 1028                                                               | 1028                                                              | 825                                                          | .30                                      | 4.1                                            | 6.8                                                                  | 4.85                                                                        |
| 23...    | 0959 | 28.3                                            | 1028                                                               | 1028                                                              | 768                                                          | .50                                      | 4.0                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1000 | 28.1                                            | 1028                                                               | 1028                                                              | 1090                                                         | 1.0                                      | 4.0                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1001 | 28.1                                            | 1028                                                               | 1028                                                              | 1190                                                         | 1.5                                      | 3.9                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1002 | 28.1                                            | 1028                                                               | 1028                                                              | 1220                                                         | 2.0                                      | 3.9                                            | 6.9                                                                  | --                                                                          |
| 23...    | 1003 | 28.1                                            | 1028                                                               | 1028                                                              | 1410                                                         | 2.5                                      | 3.9                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1004 | 28.1                                            | 1028                                                               | 1028                                                              | 1560                                                         | 3.0                                      | 3.9                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1005 | 28.1                                            | 1028                                                               | 1028                                                              | 1700                                                         | 3.5                                      | 3.8                                            | 6.9                                                                  | --                                                                          |
| 23...    | 1006 | 27.9                                            | 1028                                                               | 1028                                                              | 2240                                                         | 4.0                                      | 3.6                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1007 | 27.8                                            | 1028                                                               | 1028                                                              | 2950                                                         | 4.5                                      | 3.3                                            | 6.8                                                                  | --                                                                          |
| 23...    | 1008 | 27.8                                            | 1028                                                               | 1028                                                              | 3500                                                         | 4.7                                      | 3.2                                            | 6.8                                                                  | --                                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUL 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1007 | 32.6                                            | 1028                                                               | 1028                                                              | 382                                                          | .30                                      | 4.1                                            | 7.7                                                                  | 5.25                                                                        |
| 28...    | 1008 | 32.2                                            | 1028                                                               | 1028                                                              | 382                                                          | .50                                      | 3.9                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1009 | 31.0                                            | 1028                                                               | 1028                                                              | 375                                                          | 1.0                                      | 3.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1010 | 30.9                                            | 1028                                                               | 1028                                                              | 376                                                          | 1.5                                      | 3.5                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1011 | 30.8                                            | 1028                                                               | 1028                                                              | 374                                                          | 2.0                                      | 3.4                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1012 | 30.7                                            | 1028                                                               | 1028                                                              | 377                                                          | 2.5                                      | 3.4                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1013 | 30.8                                            | 1028                                                               | 1028                                                              | 360                                                          | 3.0                                      | 3.4                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1014 | 30.7                                            | 1028                                                               | 1028                                                              | 366                                                          | 3.5                                      | 3.3                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1015 | 30.7                                            | 1028                                                               | 1028                                                              | 371                                                          | 4.0                                      | 3.3                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1016 | 30.7                                            | 1028                                                               | 1028                                                              | 362                                                          | 4.5                                      | 3.3                                            | 7.1                                                                  | --                                                                          |
| 28...    | 1017 | 30.7                                            | 1028                                                               | 1028                                                              | 376                                                          | 5.0                                      | 3.3                                            | 7.1                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 0952 | 28.4                                            | 1028                                                               | 1028                                                              | 308                                                          | .30                                      | 4.8                                            | 7.1                                                                  | 5.35                                                                        |
| 24...    | 0953 | 28.4                                            | 1028                                                               | 1028                                                              | 306                                                          | .50                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0954 | 28.3                                            | 1028                                                               | 1028                                                              | 313                                                          | 1.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0955 | 28.2                                            | 1028                                                               | 1028                                                              | 305                                                          | 1.5                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0956 | 28.3                                            | 1028                                                               | 1028                                                              | 314                                                          | 2.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0957 | 28.3                                            | 1028                                                               | 1028                                                              | 311                                                          | 2.5                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0958 | 28.3                                            | 1028                                                               | 1028                                                              | 310                                                          | 3.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 0959 | 28.4                                            | 1028                                                               | 1028                                                              | 307                                                          | 3.5                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1000 | 28.3                                            | 1028                                                               | 1028                                                              | 312                                                          | 4.0                                      | 4.7                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1001 | 28.2                                            | 1028                                                               | 1028                                                              | 306                                                          | 4.5                                      | 4.6                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1002 | 28.0                                            | 1028                                                               | 1028                                                              | 311                                                          | 5.0                                      | 4.5                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1003 | 28.0                                            | 1028                                                               | 1028                                                              | 313                                                          | 5.2                                      | 4.5                                            | 6.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| SEP 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1030 | 27.2                                            | 1028                                                               | 1028                                                              | 320                                                          | .30                                      | 4.8                                            | 7.0                                                                  | 5.45                                                                        |
| 24...    | 1031 | 26.8                                            | 1028                                                               | 1028                                                              | 324                                                          | .50                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1033 | 25.9                                            | 1028                                                               | 1028                                                              | 321                                                          | 1.0                                      | 4.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1034 | 25.8                                            | 1028                                                               | 1028                                                              | 311                                                          | 1.5                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1035 | 25.8                                            | 1028                                                               | 1028                                                              | 317                                                          | 2.0                                      | 4.3                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1036 | 25.8                                            | 1028                                                               | 1028                                                              | 315                                                          | 2.5                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1037 | 25.8                                            | 1028                                                               | 1028                                                              | 311                                                          | 3.0                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1038 | 25.7                                            | 1028                                                               | 1028                                                              | 315                                                          | 3.5                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1039 | 25.7                                            | 1028                                                               | 1028                                                              | 316                                                          | 4.0                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1040 | 25.7                                            | 1028                                                               | 1028                                                              | 316                                                          | 4.5                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1041 | 25.7                                            | 1028                                                               | 1028                                                              | 328                                                          | 5.0                                      | 4.3                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1042 | 25.7                                            | 1028                                                               | 1028                                                              | 338                                                          | 5.3                                      | 4.2                                            | 6.9                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1122 | 26.6                                            | 1028                                                               | 1028                                                              | 257                                                          | .30                                      | 4.9                                            | 7.0                                                                  | 5.85                                                                        |
| 20...    | 1123 | 26.5                                            | 1028                                                               | 1028                                                              | 259                                                          | .50                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1124 | 26.5                                            | 1028                                                               | 1028                                                              | 262                                                          | 1.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1125 | 26.5                                            | 1028                                                               | 1028                                                              | 253                                                          | 1.5                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1126 | 26.5                                            | 1028                                                               | 1028                                                              | 254                                                          | 2.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1127 | 26.5                                            | 1028                                                               | 1028                                                              | 250                                                          | 2.5                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1128 | 26.4                                            | 1028                                                               | 1028                                                              | 248                                                          | 3.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1129 | 26.4                                            | 1028                                                               | 1028                                                              | 252                                                          | 3.5                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1130 | 26.4                                            | 1028                                                               | 1028                                                              | 259                                                          | 4.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1131 | 26.3                                            | 1028                                                               | 1028                                                              | 251                                                          | 4.5                                      | 4.7                                            | 6.9                                                                  | --                                                                          |
| 20...    | 1132 | 26.2                                            | 1028                                                               | 1028                                                              | 255                                                          | 5.0                                      | 4.7                                            | 6.9                                                                  | --                                                                          |
| 20...    | 1133 | 26.2                                            | 1028                                                               | 1028                                                              | 256                                                          | 5.5                                      | 4.6                                            | 6.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| NOV 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1132 | 21.8                                            | 1028                                                               | 1028                                                              | 5570                                                         | .30                                      | 7.8                                            | 7.8                                                                  | 4.75                                                                        |
| 17...    | 1133 | 21.8                                            | 1028                                                               | 1028                                                              | 5600                                                         | .50                                      | 7.7                                            | 7.7                                                                  | --                                                                          |
| 17...    | 1134 | 21.9                                            | 1028                                                               | 1028                                                              | 5910                                                         | 1.0                                      | 7.6                                            | 7.7                                                                  | --                                                                          |
| 17...    | 1135 | 22.4                                            | 1028                                                               | 1028                                                              | 10500                                                        | 1.5                                      | 7.1                                            | 7.6                                                                  | --                                                                          |
| 17...    | 1136 | 23.4                                            | 1028                                                               | 1028                                                              | 16400                                                        | 2.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 17...    | 1137 | 23.6                                            | 1028                                                               | 1028                                                              | 17200                                                        | 2.5                                      | 6.5                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1138 | 23.6                                            | 1028                                                               | 1028                                                              | 17400                                                        | 3.0                                      | 6.5                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1139 | 23.6                                            | 1028                                                               | 1028                                                              | 16900                                                        | 3.5                                      | 6.5                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1140 | 23.7                                            | 1028                                                               | 1028                                                              | 17200                                                        | 4.0                                      | 6.3                                            | 7.8                                                                  | --                                                                          |
| 17...    | 1141 | 23.7                                            | 1028                                                               | 1028                                                              | 17400                                                        | 4.5                                      | 6.3                                            | 7.8                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1142 | 20.6                                            | 1028                                                               | 1028                                                              | 5500                                                         | .30                                      | 6.1                                            | 7.5                                                                  | 4.05                                                                        |
| 21...    | 1143 | 20.5                                            | 1028                                                               | 1028                                                              | 5580                                                         | .50                                      | 6.1                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1144 | 20.5                                            | 1028                                                               | 1028                                                              | 5730                                                         | 1.0                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1145 | 20.5                                            | 1028                                                               | 1028                                                              | 6030                                                         | 1.5                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1146 | 20.5                                            | 1028                                                               | 1028                                                              | 6060                                                         | 2.0                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1147 | 20.5                                            | 1028                                                               | 1028                                                              | 6010                                                         | 2.5                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1148 | 20.5                                            | 1028                                                               | 1028                                                              | 6170                                                         | 3.0                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1149 | 20.6                                            | 1028                                                               | 1028                                                              | 6330                                                         | 3.5                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 21...    | 1150 | 20.6                                            | 1028                                                               | 1028                                                              | 6320                                                         | 3.9                                      | 6.1                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1201 | 25.0                                            | 1028                                                               | 1028                                                              | 1440                                                         | .30                                      | 6.3                                            | 7.7                                                                  | 2.45                                                                        |
| 29...    | 1202 | 24.7                                            | 1028                                                               | 1028                                                              | 1670                                                         | .50                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1203 | 24.6                                            | 1028                                                               | 1028                                                              | 2450                                                         | 1.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1204 | 24.5                                            | 1028                                                               | 1028                                                              | 2890                                                         | 1.5                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1205 | 24.6                                            | 1028                                                               | 1028                                                              | 5990                                                         | 2.0                                      | 6.6                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1206 | 24.6                                            | 1028                                                               | 1028                                                              | 6960                                                         | 2.3                                      | 6.7                                            | 7.8                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1151 | 24.3                                            | 1028                                                               | 1028                                                              | 324                                                          | .30                                      | 5.5                                            | 7.2                                                                  | 2.45                                                                        |
| 18...    | 1152 | 24.2                                            | 1028                                                               | 1028                                                              | 325                                                          | .50                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1153 | 24.0                                            | 1028                                                               | 1028                                                              | 325                                                          | 1.0                                      | 5.5                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1154 | 24.0                                            | 1028                                                               | 1028                                                              | 324                                                          | 1.5                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1155 | 24.0                                            | 1028                                                               | 1028                                                              | 323                                                          | 2.0                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1156 | 24.0                                            | 1028                                                               | 1028                                                              | 325                                                          | 2.3                                      | 5.4                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1145 | 22.2                                            | 1028                                                               | 1028                                                              | 7720                                                         | .30                                      | 7.1                                            | 7.7                                                                  | 2.15                                                                        |
| 29...    | 1146 | 22.0                                            | 1028                                                               | 1028                                                              | 8150                                                         | .50                                      | 6.9                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1147 | 22.1                                            | 1028                                                               | 1028                                                              | 8680                                                         | 1.0                                      | 6.9                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1148 | 22.0                                            | 1028                                                               | 1028                                                              | 9060                                                         | 1.5                                      | 6.6                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1149 | 21.9                                            | 1028                                                               | 1028                                                              | 9880                                                         | 2.0                                      | 6.2                                            | 7.5                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1227 | 21.2                                            | 1028                                                               | 1028                                                              | 561                                                          | .30                                      | 6.4                                            | 7.4                                                                  | 1.95                                                                        |
| 26...    | 1228 | 21.2                                            | 1028                                                               | 1028                                                              | 564                                                          | .50                                      | 6.4                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1229 | 21.2                                            | 1028                                                               | 1028                                                              | 561                                                          | 1.0                                      | 6.4                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1230 | 21.0                                            | 1028                                                               | 1028                                                              | 562                                                          | 1.5                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1231 | 20.9                                            | 1028                                                               | 1028                                                              | 544                                                          | 1.8                                      | 6.1                                            | 7.5                                                                  | --                                                                          |
| FEB      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1150 | 18.5                                            | 1028                                                               | 1028                                                              | 7430                                                         | .30                                      | 7.5                                            | 7.7                                                                  | 3.75                                                                        |
| 23...    | 1151 | 18.3                                            | 1028                                                               | 1028                                                              | 7700                                                         | .50                                      | 7.6                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1152 | 18.2                                            | 1028                                                               | 1028                                                              | 8500                                                         | 1.0                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1153 | 18.1                                            | 1028                                                               | 1028                                                              | 9450                                                         | 1.5                                      | 7.1                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1154 | 18.1                                            | 1028                                                               | 1028                                                              | 10000                                                        | 2.0                                      | 6.9                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1155 | 18.2                                            | 1028                                                               | 1028                                                              | 10400                                                        | 2.5                                      | 6.7                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1156 | 18.3                                            | 1028                                                               | 1028                                                              | 10700                                                        | 3.0                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1157 | 18.3                                            | 1028                                                               | 1028                                                              | 10700                                                        | 3.5                                      | 6.5                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAR 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1131 | 22.8                                            | 1028                                                               | 1028                                                              | 11100                                                        | .30                                      | 7.1                                            | 7.6                                                                  | 3.05                                                                        |
| 23...    | 1132 | 22.5                                            | 1028                                                               | 1028                                                              | 11400                                                        | .50                                      | 6.9                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1133 | 22.5                                            | 1028                                                               | 1028                                                              | 11400                                                        | 1.0                                      | 6.9                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1134 | 22.2                                            | 1028                                                               | 1028                                                              | 12400                                                        | 1.5                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1135 | 22.3                                            | 1028                                                               | 1028                                                              | 13100                                                        | 2.0                                      | 5.7                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1136 | 22.3                                            | 1028                                                               | 1028                                                              | 13400                                                        | 2.5                                      | 5.7                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1137 | 22.4                                            | 1028                                                               | 1028                                                              | 13600                                                        | 2.9                                      | 5.7                                            | 7.4                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1014 | 23.3                                            | 1028                                                               | 1028                                                              | 15200                                                        | .30                                      | 7.4                                            | 7.6                                                                  | 1.95                                                                        |
| 20...    | 1015 | 23.1                                            | 1028                                                               | 1028                                                              | 15800                                                        | .50                                      | 6.7                                            | 7.6                                                                  | --                                                                          |
| 20...    | 1016 | 22.7                                            | 1028                                                               | 1028                                                              | 17500                                                        | 1.0                                      | 5.9                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1017 | 22.7                                            | 1028                                                               | 1028                                                              | 17900                                                        | 1.5                                      | 5.6                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1018 | 22.7                                            | 1028                                                               | 1028                                                              | 18000                                                        | 1.8                                      | 5.6                                            | 7.4                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1020 | 29.0                                            | 1028                                                               | 1028                                                              | 10500                                                        | .30                                      | 5.9                                            | 7.5                                                                  | 3.95                                                                        |
| 26...    | 1021 | 29.0                                            | 1028                                                               | 1028                                                              | 10900                                                        | .50                                      | 5.8                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1022 | 28.9                                            | 1028                                                               | 1028                                                              | 11700                                                        | 1.0                                      | 5.7                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1023 | 28.7                                            | 1028                                                               | 1028                                                              | 12400                                                        | 1.5                                      | 5.2                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1024 | 28.6                                            | 1028                                                               | 1028                                                              | 13700                                                        | 2.0                                      | 4.8                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1025 | 28.6                                            | 1028                                                               | 1028                                                              | 13800                                                        | 2.5                                      | 4.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1026 | 28.6                                            | 1028                                                               | 1028                                                              | 13800                                                        | 3.0                                      | 4.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1027 | 28.6                                            | 1028                                                               | 1028                                                              | 13900                                                        | 3.5                                      | 4.6                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1028 | 28.6                                            | 1028                                                               | 1028                                                              | 14000                                                        | 3.8                                      | 4.6                                            | 7.4                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1010 | 27.9                                            | 1028                                                               | 1028                                                              | 484                                                          | .30                                      | 4.3                                            | 7.1                                                                  | 4.15                                                                        |
| 23...    | 1011 | 27.9                                            | 1028                                                               | 1028                                                              | 493                                                          | .50                                      | 4.2                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1012 | 27.7                                            | 1028                                                               | 1028                                                              | 483                                                          | 1.0                                      | 4.2                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1013 | 27.6                                            | 1028                                                               | 1028                                                              | 489                                                          | 1.5                                      | 4.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1014 | 27.6                                            | 1028                                                               | 1028                                                              | 482                                                          | 2.0                                      | 4.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1015 | 27.5                                            | 1028                                                               | 1028                                                              | 493                                                          | 2.5                                      | 4.1                                            | 6.9                                                                  | --                                                                          |
| 23...    | 1016 | 27.5                                            | 1028                                                               | 1028                                                              | 486                                                          | 3.0                                      | 4.1                                            | 6.9                                                                  | --                                                                          |
| 23...    | 1017 | 27.5                                            | 1028                                                               | 1028                                                              | 488                                                          | 3.5                                      | 4.1                                            | 6.9                                                                  | --                                                                          |
| 23...    | 1018 | 27.5                                            | 1028                                                               | 1028                                                              | 489                                                          | 4.0                                      | 4.0                                            | 6.9                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUL 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1018 | 32.0                                            | 1028                                                               | 1028                                                              | 351                                                          | .30                                      | 3.7                                            | 7.5                                                                  | 3.55                                                                        |
| 28...    | 1019 | 31.3                                            | 1028                                                               | 1028                                                              | 352                                                          | .50                                      | 3.5                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1020 | 30.7                                            | 1028                                                               | 1028                                                              | 355                                                          | 1.0                                      | 3.4                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1021 | 30.7                                            | 1028                                                               | 1028                                                              | 356                                                          | 1.5                                      | 3.4                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1022 | 30.5                                            | 1028                                                               | 1028                                                              | 358                                                          | 2.0                                      | 3.3                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1023 | 30.5                                            | 1028                                                               | 1028                                                              | 355                                                          | 2.5                                      | 3.3                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1024 | 30.5                                            | 1028                                                               | 1028                                                              | 359                                                          | 3.0                                      | 3.3                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1025 | 30.5                                            | 1028                                                               | 1028                                                              | 354                                                          | 3.4                                      | 3.3                                            | 7.1                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1004 | 27.9                                            | 1028                                                               | 1028                                                              | 310                                                          | .30                                      | 5.1                                            | 7.0                                                                  | 2.45                                                                        |
| 24...    | 1005 | 27.8                                            | 1028                                                               | 1028                                                              | 301                                                          | .50                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1006 | 27.7                                            | 1028                                                               | 1028                                                              | 299                                                          | 1.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1007 | 27.7                                            | 1028                                                               | 1028                                                              | 305                                                          | 1.5                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1008 | 27.6                                            | 1028                                                               | 1028                                                              | 297                                                          | 2.0                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1009 | 27.6                                            | 1028                                                               | 1028                                                              | 312                                                          | 2.3                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1043 | 26.9                                            | 1028                                                               | 1028                                                              | 313                                                          | .30                                      | 4.6                                            | 7.0                                                                  | 4.35                                                                        |
| 24...    | 1044 | 26.4                                            | 1028                                                               | 1028                                                              | 306                                                          | .50                                      | 4.5                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1045 | 25.9                                            | 1028                                                               | 1028                                                              | 306                                                          | 1.0                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1046 | 25.9                                            | 1028                                                               | 1028                                                              | 308                                                          | 1.5                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1047 | 25.8                                            | 1028                                                               | 1028                                                              | 308                                                          | 2.0                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1048 | 25.8                                            | 1028                                                               | 1028                                                              | 307                                                          | 2.5                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1049 | 25.8                                            | 1028                                                               | 1028                                                              | 307                                                          | 3.0                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1050 | 25.8                                            | 1028                                                               | 1028                                                              | 307                                                          | 3.5                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| 24...    | 1051 | 25.8                                            | 1028                                                               | 1028                                                              | 307                                                          | 4.0                                      | 4.4                                            | 6.9                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1137 | 26.8                                            | 1028                                                               | 1028                                                              | 243                                                          | .30                                      | 4.8                                            | 7.0                                                                  | 2.35                                                                        |
| 20...    | 1138 | 26.5                                            | 1028                                                               | 1028                                                              | 246                                                          | .50                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1139 | 26.3                                            | 1028                                                               | 1028                                                              | 251                                                          | 1.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1140 | 26.0                                            | 1028                                                               | 1028                                                              | 253                                                          | 1.5                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1141 | 26.0                                            | 1028                                                               | 1028                                                              | 248                                                          | 2.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.

WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| NOV 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1144 | 22.3                                            | 1028                                                               | 1028                                                              | 4080                                                         | .30                                      | 7.3                                            | 7.6                                                                  | 2.15                                                                        |
| 17...    | 1145 | 22.3                                            | 1028                                                               | 1028                                                              | 4140                                                         | .50                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 17...    | 1146 | 22.3                                            | 1028                                                               | 1028                                                              | 4340                                                         | 1.0                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| 17...    | 1147 | 22.9                                            | 1028                                                               | 1028                                                              | 10100                                                        | 1.5                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1148 | 23.4                                            | 1028                                                               | 1028                                                              | 12800                                                        | 2.0                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1152 | 20.3                                            | 1028                                                               | 1028                                                              | 2890                                                         | .30                                      | 6.4                                            | 7.6                                                                  | 2.15                                                                        |
| 21...    | 1153 | 20.3                                            | 1028                                                               | 1028                                                              | 2890                                                         | .50                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1154 | 20.3                                            | 1028                                                               | 1028                                                              | 2890                                                         | 1.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1155 | 20.2                                            | 1028                                                               | 1028                                                              | 2910                                                         | 1.5                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1156 | 20.2                                            | 1028                                                               | 1028                                                              | 2910                                                         | 2.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1214 | 24.3                                            | 1028                                                               | 1028                                                              | 278                                                          | .30                                      | 5.6                                            | 7.3                                                                  | 3.35                                                                        |
| 29...    | 1215 | 24.3                                            | 1028                                                               | 1028                                                              | 282                                                          | .50                                      | 5.4                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1216 | 24.2                                            | 1028                                                               | 1028                                                              | 281                                                          | 1.0                                      | 5.4                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1217 | 24.2                                            | 1028                                                               | 1028                                                              | 281                                                          | 1.5                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1218 | 24.2                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.0                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1219 | 24.2                                            | 1028                                                               | 1028                                                              | 282                                                          | 2.5                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1220 | 24.2                                            | 1028                                                               | 1028                                                              | 283                                                          | 3.0                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1200 | 24.5                                            | 1028                                                               | 1028                                                              | 321                                                          | .30                                      | 5.7                                            | 7.2                                                                  | 1.65                                                                        |
| 18...    | 1201 | 24.5                                            | 1028                                                               | 1028                                                              | 319                                                          | .50                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1202 | 23.9                                            | 1028                                                               | 1028                                                              | 327                                                          | 1.0                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1203 | 23.9                                            | 1028                                                               | 1028                                                              | 328                                                          | 1.5                                      | 5.6                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1153 | 22.0                                            | 1028                                                               | 1028                                                              | 5000                                                         | .30                                      | 6.4                                            | 7.6                                                                  | 2.25                                                                        |
| 29...    | 1154 | 22.0                                            | 1028                                                               | 1028                                                              | 5040                                                         | .50                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 29...    | 1155 | 22.0                                            | 1028                                                               | 1028                                                              | 5030                                                         | 1.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 29...    | 1156 | 22.0                                            | 1028                                                               | 1028                                                              | 5040                                                         | 1.5                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 29...    | 1157 | 22.0                                            | 1028                                                               | 1028                                                              | 5000                                                         | 2.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1245 | 20.9                                            | 1028                                                               | 1028                                                              | 455                                                          | .30                                      | 6.5                                            | 7.5                                                                  | 2.65                                                                        |
| 26...    | 1246 | 20.9                                            | 1028                                                               | 1028                                                              | 455                                                          | .50                                      | 6.5                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1247 | 20.9                                            | 1028                                                               | 1028                                                              | 452                                                          | 1.0                                      | 6.5                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1248 | 20.8                                            | 1028                                                               | 1028                                                              | 456                                                          | 1.5                                      | 6.4                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1249 | 20.4                                            | 1028                                                               | 1028                                                              | 453                                                          | 2.0                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1250 | 20.4                                            | 1028                                                               | 1028                                                              | 448                                                          | 2.5                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| FEB      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1201 | 18.3                                            | 1028                                                               | 1028                                                              | 2880                                                         | .30                                      | 6.6                                            | 7.6                                                                  | 1.75                                                                        |
| 23...    | 1202 | 18.2                                            | 1028                                                               | 1028                                                              | 2930                                                         | .50                                      | 6.5                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1203 | 18.1                                            | 1028                                                               | 1028                                                              | 3000                                                         | 1.0                                      | 6.5                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1204 | 18.1                                            | 1028                                                               | 1028                                                              | 3010                                                         | 1.5                                      | 6.5                                            | 7.6                                                                  | --                                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAR 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1142 | 22.8                                            | 1028                                                               | 1028                                                              | 5270                                                         | .30                                      | 6.4                                            | 7.5                                                                  | 2.35                                                                        |
| 23...    | 1143 | 22.8                                            | 1028                                                               | 1028                                                              | 5280                                                         | .50                                      | 6.4                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1144 | 22.8                                            | 1028                                                               | 1028                                                              | 5640                                                         | 1.0                                      | 6.4                                            | 7.5                                                                  | --                                                                          |
| 23...    | 1145 | 22.6                                            | 1028                                                               | 1028                                                              | 6610                                                         | 1.5                                      | 6.2                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1146 | 22.3                                            | 1028                                                               | 1028                                                              | 6820                                                         | 2.0                                      | 6.0                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1147 | 22.2                                            | 1028                                                               | 1028                                                              | 6860                                                         | 2.2                                      | 5.9                                            | 7.4                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1024 | 23.6                                            | 1028                                                               | 1028                                                              | 10900                                                        | .30                                      | 6.7                                            | 7.5                                                                  | 4.15                                                                        |
| 20...    | 1025 | 23.5                                            | 1028                                                               | 1028                                                              | 11000                                                        | .50                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1026 | 23.3                                            | 1028                                                               | 1028                                                              | 11300                                                        | 1.0                                      | 6.1                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1027 | 23.0                                            | 1028                                                               | 1028                                                              | 12000                                                        | 1.5                                      | 5.8                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1028 | 22.8                                            | 1028                                                               | 1028                                                              | 12200                                                        | 2.0                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1029 | 22.8                                            | 1028                                                               | 1028                                                              | 12500                                                        | 2.5                                      | 5.4                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1030 | 22.8                                            | 1028                                                               | 1028                                                              | 12600                                                        | 3.0                                      | 5.4                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1031 | 22.8                                            | 1028                                                               | 1028                                                              | 12700                                                        | 3.5                                      | 5.4                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1032 | 22.8                                            | 1028                                                               | 1028                                                              | 12800                                                        | 4.0                                      | 5.3                                            | 7.3                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1032 | 28.7                                            | 1028                                                               | 1028                                                              | 6240                                                         | .30                                      | 5.1                                            | 7.5                                                                  | 2.45                                                                        |
| 26...    | 1033 | 28.7                                            | 1028                                                               | 1028                                                              | 6210                                                         | .50                                      | 5.1                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1034 | 28.6                                            | 1028                                                               | 1028                                                              | 6230                                                         | 1.0                                      | 5.0                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1035 | 28.5                                            | 1028                                                               | 1028                                                              | 6300                                                         | 1.5                                      | 4.9                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1036 | 28.5                                            | 1028                                                               | 1028                                                              | 6410                                                         | 2.0                                      | 4.9                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1037 | 28.5                                            | 1028                                                               | 1028                                                              | 6340                                                         | 2.3                                      | 4.9                                            | 7.3                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1020 | 28.0                                            | 1028                                                               | 1028                                                              | 482                                                          | .30                                      | 4.4                                            | 7.1                                                                  | 2.35                                                                        |
| 23...    | 1021 | 28.1                                            | 1028                                                               | 1028                                                              | 483                                                          | .50                                      | 4.3                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1022 | 27.9                                            | 1028                                                               | 1028                                                              | 482                                                          | 1.0                                      | 4.2                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1023 | 27.7                                            | 1028                                                               | 1028                                                              | 482                                                          | 1.5                                      | 4.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1024 | 27.7                                            | 1028                                                               | 1028                                                              | 483                                                          | 2.0                                      | 4.1                                            | 7.0                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE

| WATER-QUALITY DATA |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
|--------------------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
| JUL 1999           |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...              | 1026 | 31.5                                            | 1028                                                               | 1028                                                              | 318                                                          | .30                                      | 3.7                                            | 7.6                                                                  | 2.45                                                                        |
| 28...              | 1027 | 31.1                                            | 1028                                                               | 1028                                                              | 318                                                          | .50                                      | 3.8                                            | 7.4                                                                  | --                                                                          |
| 28...              | 1028 | 30.7                                            | 1028                                                               | 1028                                                              | 321                                                          | 1.0                                      | 3.7                                            | 7.4                                                                  | --                                                                          |
| 28...              | 1029 | 30.3                                            | 1028                                                               | 1028                                                              | 319                                                          | 1.5                                      | 3.7                                            | 7.3                                                                  | --                                                                          |
| 28...              | 1030 | 30.3                                            | 1028                                                               | 1028                                                              | 320                                                          | 2.0                                      | 3.6                                            | 7.3                                                                  | --                                                                          |
| 28...              | 1031 | 30.3                                            | 1028                                                               | 1028                                                              | 327                                                          | 2.3                                      | 3.6                                            | 7.2                                                                  | --                                                                          |
| AUG                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...              | 1013 | 27.9                                            | 1028                                                               | 1028                                                              | 297                                                          | .30                                      | 5.3                                            | 7.1                                                                  | 2.55                                                                        |
| 24...              | 1014 | 27.9                                            | 1028                                                               | 1028                                                              | 301                                                          | .50                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1015 | 27.9                                            | 1028                                                               | 1028                                                              | 303                                                          | 1.0                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1016 | 27.9                                            | 1028                                                               | 1028                                                              | 297                                                          | 1.5                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1017 | 27.8                                            | 1028                                                               | 1028                                                              | 299                                                          | 2.0                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1018 | 27.8                                            | 1028                                                               | 1028                                                              | 306                                                          | 2.4                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| SEP                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...              | 1052 | 26.5                                            | 1028                                                               | 1028                                                              | 288                                                          | .30                                      | 5.1                                            | 7.0                                                                  | 2.35                                                                        |
| 24...              | 1053 | 26.5                                            | 1028                                                               | 1028                                                              | 288                                                          | .50                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1054 | 26.0                                            | 1028                                                               | 1028                                                              | 289                                                          | 1.0                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1055 | 25.9                                            | 1028                                                               | 1028                                                              | 289                                                          | 1.5                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 24...              | 1056 | 25.8                                            | 1028                                                               | 1028                                                              | 289                                                          | 2.0                                      | 4.8                                            | 7.0                                                                  | --                                                                          |
| OCT                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...              | 1143 | 26.3                                            | 1028                                                               | 1028                                                              | 258                                                          | .30                                      | 5.2                                            | 7.0                                                                  | 2.65                                                                        |
| 20...              | 1144 | 26.4                                            | 1028                                                               | 1028                                                              | 251                                                          | .50                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 20...              | 1145 | 26.1                                            | 1028                                                               | 1028                                                              | 246                                                          | 1.0                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 20...              | 1146 | 26.0                                            | 1028                                                               | 1028                                                              | 252                                                          | 1.5                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 20...              | 1147 | 26.0                                            | 1028                                                               | 1028                                                              | 249                                                          | 2.0                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 20...              | 1148 | 25.9                                            | 1028                                                               | 1028                                                              | 251                                                          | 2.5                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| NOV                |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...              | 1201 | 21.8                                            | 1028                                                               | 1028                                                              | 681                                                          | .30                                      | 6.1                                            | 7.1                                                                  | 3.05                                                                        |
| 17...              | 1202 | 21.8                                            | 1028                                                               | 1028                                                              | 686                                                          | .50                                      | 6.2                                            | 7.2                                                                  | --                                                                          |
| 17...              | 1203 | 21.8                                            | 1028                                                               | 1028                                                              | 695                                                          | 1.0                                      | 6.1                                            | 7.2                                                                  | --                                                                          |
| 17...              | 1204 | 21.7                                            | 1028                                                               | 1028                                                              | 741                                                          | 1.5                                      | 6.1                                            | 7.2                                                                  | --                                                                          |
| 17...              | 1205 | 21.6                                            | 1028                                                               | 1028                                                              | 833                                                          | 2.0                                      | 6.1                                            | 7.3                                                                  | --                                                                          |
| 17...              | 1206 | 21.6                                            | 1028                                                               | 1028                                                              | 1150                                                         | 2.5                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 17...              | 1207 | 21.5                                            | 1028                                                               | 1028                                                              | 1470                                                         | 2.9                                      | 6.0                                            | 7.2                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE

WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DEC 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1210 | 20.3                                            | 1028                                                               | 1028                                                              | 948                                                          | .30                                      | 6.9                                            | 7.4                                                                  | 2.15                                                                        |
| 21...    | 1211 | 20.4                                            | 1028                                                               | 1028                                                              | 939                                                          | .50                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1212 | 20.3                                            | 1028                                                               | 1028                                                              | 952                                                          | 1.0                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1213 | 20.3                                            | 1028                                                               | 1028                                                              | 953                                                          | 1.5                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1214 | 20.3                                            | 1028                                                               | 1028                                                              | 940                                                          | 2.0                                      | 6.8                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...    | 1452 | 24.6                                            | 1028                                                               | 1028                                                              | 274                                                          | .30                                      | 2400                                                                         | 5.8                                            | 7.3                                                                  | 3.75                                                                        | 1.0                                                                     |
| 28...    | 1453 | 24.6                                            | 1028                                                               | 1028                                                              | 274                                                          | .50                                      | --                                                                           | 5.8                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1454 | 24.5                                            | 1028                                                               | 1028                                                              | 274                                                          | 1.0                                      | --                                                                           | 5.7                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1455 | 24.5                                            | 1028                                                               | 1028                                                              | 276                                                          | 1.5                                      | --                                                                           | 5.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1456 | 24.5                                            | 1028                                                               | 1028                                                              | 271                                                          | 2.0                                      | --                                                                           | 5.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1457 | 24.4                                            | 1028                                                               | 1028                                                              | 279                                                          | 2.5                                      | --                                                                           | 5.4                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1458 | 24.4                                            | 1028                                                               | 1028                                                              | 268                                                          | 3.0                                      | --                                                                           | 5.4                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1459 | 24.4                                            | 1028                                                               | 1028                                                              | 273                                                          | 3.5                                      | --                                                                           | 5.4                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 29...    | 1222 | 24.6                                            | 1028                                                               | 1028                                                              | 274                                                          | .30                                      | --                                                                           | 5.2                                            | 7.5                                                                  | 3.55                                                                        | --                                                                      |
| 29...    | 1223 | 24.6                                            | 1028                                                               | 1028                                                              | 276                                                          | .50                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1224 | 24.3                                            | 1028                                                               | 1028                                                              | 277                                                          | 1.0                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1225 | 24.3                                            | 1028                                                               | 1028                                                              | 269                                                          | 1.5                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1226 | 24.2                                            | 1028                                                               | 1028                                                              | 275                                                          | 2.0                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1227 | 24.2                                            | 1028                                                               | 1028                                                              | 274                                                          | 2.5                                      | --                                                                           | 5.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1228 | 24.2                                            | 1028                                                               | 1028                                                              | 270                                                          | 3.0                                      | --                                                                           | 5.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 29...    | 1229 | 24.2                                            | 1028                                                               | 1028                                                              | 271                                                          | 3.4                                      | --                                                                           | 5.1                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 17...    | 1401 | 24.4                                            | 1028                                                               | 1028                                                              | 308                                                          | .30                                      | 2650                                                                         | 6.0                                            | 7.3                                                                  | 4.35                                                                        | 1.1                                                                     |
| 17...    | 1402 | 24.4                                            | 1028                                                               | 1028                                                              | 314                                                          | .50                                      | --                                                                           | 5.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1403 | 24.2                                            | 1028                                                               | 1028                                                              | 309                                                          | 1.0                                      | --                                                                           | 5.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1404 | 24.2                                            | 1028                                                               | 1028                                                              | 307                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1405 | 24.2                                            | 1028                                                               | 1028                                                              | 312                                                          | 2.0                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1406 | 24.2                                            | 1028                                                               | 1028                                                              | 312                                                          | 2.5                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1407 | 24.1                                            | 1028                                                               | 1028                                                              | 309                                                          | 3.0                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1408 | 24.1                                            | 1028                                                               | 1028                                                              | 310                                                          | 3.5                                      | --                                                                           | 5.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1409 | 24.0                                            | 1028                                                               | 1028                                                              | 312                                                          | 4.0                                      | --                                                                           | 5.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1210 | 24.4                                            | 1028                                                               | 1028                                                              | 324                                                          | .30                                      | --                                                                           | 5.8                                            | 7.3                                                                  | 3.55                                                                        | --                                                                      |
| 18...    | 1211 | 24.3                                            | 1028                                                               | 1028                                                              | 323                                                          | .50                                      | --                                                                           | 5.7                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 18...    | 1212 | 24.1                                            | 1028                                                               | 1028                                                              | 327                                                          | 1.0                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1213 | 24.0                                            | 1028                                                               | 1028                                                              | 323                                                          | 1.5                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1214 | 24.0                                            | 1028                                                               | 1028                                                              | 322                                                          | 2.0                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1215 | 23.9                                            | 1028                                                               | 1028                                                              | 321                                                          | 2.5                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1216 | 23.9                                            | 1028                                                               | 1028                                                              | 322                                                          | 3.0                                      | --                                                                           | 5.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 18...    | 1217 | 23.9                                            | 1028                                                               | 1028                                                              | 318                                                          | 3.4                                      | --                                                                           | 5.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

| WATER-QUALITY DATA |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
|--------------------|------|----------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DATE               | TIME | TEMPER-<br>ATURE<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
| DEC 1998           |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 28...              | 1501 | 22.0                                   | 1028                                                               | 1028                                                              | 1190                                                         | .30                                      | 828                                                                          | 7.1                                            | 7.7                                                                  | 3.25                                                                        | 2.0                                                                     |
| 28...              | 1502 | 22.0                                   | 1028                                                               | 1028                                                              | 1220                                                         | .50                                      | --                                                                           | 7.1                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 28...              | 1503 | 22.0                                   | 1028                                                               | 1028                                                              | 1230                                                         | 1.0                                      | --                                                                           | 7.1                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 28...              | 1504 | 22.0                                   | 1028                                                               | 1028                                                              | 1220                                                         | 1.5                                      | --                                                                           | 7.1                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 28...              | 1505 | 21.9                                   | 1028                                                               | 1028                                                              | 1200                                                         | 2.0                                      | --                                                                           | 7.0                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 28...              | 1506 | 21.9                                   | 1028                                                               | 1028                                                              | 1800                                                         | 2.5                                      | --                                                                           | 6.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 28...              | 1507 | 21.9                                   | 1028                                                               | 1028                                                              | 1940                                                         | 3.0                                      | --                                                                           | 6.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 29...              | 1211 | 21.9                                   | 1028                                                               | 1028                                                              | 2320                                                         | .30                                      | --                                                                           | 6.4                                            | 7.6                                                                  | 3.75                                                                        | --                                                                      |
| 29...              | 1212 | 21.9                                   | 1028                                                               | 1028                                                              | 2420                                                         | .50                                      | --                                                                           | 6.4                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 29...              | 1213 | 21.9                                   | 1028                                                               | 1028                                                              | 2460                                                         | 1.0                                      | --                                                                           | 6.3                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 29...              | 1214 | 21.8                                   | 1028                                                               | 1028                                                              | 2680                                                         | 1.5                                      | --                                                                           | 6.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 29...              | 1215 | 21.8                                   | 1028                                                               | 1028                                                              | 2630                                                         | 2.0                                      | --                                                                           | 6.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 29...              | 1216 | 21.8                                   | 1028                                                               | 1028                                                              | 2780                                                         | 2.5                                      | --                                                                           | 6.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 29...              | 1217 | 21.7                                   | 1028                                                               | 1028                                                              | 2640                                                         | 3.0                                      | --                                                                           | 6.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 29...              | 1218 | 21.7                                   | 1028                                                               | 1028                                                              | 2690                                                         | 3.5                                      | --                                                                           | 6.2                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| JAN 1999           |      |                                        |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...              | 1510 | 22.0                                   | 1028                                                               | 1028                                                              | 451                                                          | .30                                      | 2300                                                                         | 7.5                                            | 7.2                                                                  | 4.45                                                                        | 2.2                                                                     |
| 25...              | 1511 | 22.0                                   | 1028                                                               | 1028                                                              | 444                                                          | .50                                      | --                                                                           | 7.3                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 25...              | 1512 | 21.9                                   | 1028                                                               | 1028                                                              | 448                                                          | 1.0                                      | --                                                                           | 7.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 25...              | 1513 | 21.9                                   | 1028                                                               | 1028                                                              | 446                                                          | 1.5                                      | --                                                                           | 7.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 25...              | 1514 | 21.8                                   | 1028                                                               | 1028                                                              | 450                                                          | 2.0                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...              | 1515 | 21.8                                   | 1028                                                               | 1028                                                              | 447                                                          | 2.5                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...              | 1516 | 21.8                                   | 1028                                                               | 1028                                                              | 452                                                          | 3.0                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...              | 1517 | 21.8                                   | 1028                                                               | 1028                                                              | 453                                                          | 3.5                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...              | 1518 | 21.8                                   | 1028                                                               | 1028                                                              | 448                                                          | 4.0                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...              | 1258 | 21.6                                   | 1028                                                               | 1028                                                              | 423                                                          | .30                                      | --                                                                           | 6.7                                            | 7.5                                                                  | 3.55                                                                        | --                                                                      |
| 26...              | 1259 | 21.4                                   | 1028                                                               | 1028                                                              | 426                                                          | .50                                      | --                                                                           | 6.7                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...              | 1300 | 21.2                                   | 1028                                                               | 1028                                                              | 426                                                          | 1.0                                      | --                                                                           | 6.5                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...              | 1301 | 20.4                                   | 1028                                                               | 1028                                                              | 422                                                          | 1.5                                      | --                                                                           | 6.4                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 26...              | 1302 | 20.4                                   | 1028                                                               | 1028                                                              | 424                                                          | 2.0                                      | --                                                                           | 6.4                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...              | 1303 | 20.2                                   | 1028                                                               | 1028                                                              | 437                                                          | 2.5                                      | --                                                                           | 6.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...              | 1304 | 20.2                                   | 1028                                                               | 1028                                                              | 432                                                          | 3.0                                      | --                                                                           | 6.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...              | 1305 | 20.2                                   | 1028                                                               | 1028                                                              | 434                                                          | 3.4                                      | --                                                                           | 6.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1536 | 19.5                                            | 1028                                                                | 1028                                                               | 407                                                          | .30                                      | 2280                                                                         | 7.1                                            | 7.3                                                                  | 4.15                                                                        | 1.7                                                                     |
| 22...    | 1537 | 19.5                                            | 1028                                                                | 1028                                                               | 411                                                          | .50                                      | --                                                                           | 7.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 22...    | 1538 | 19.5                                            | 1028                                                                | 1028                                                               | 414                                                          | 1.0                                      | --                                                                           | 7.1                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1539 | 19.3                                            | 1028                                                                | 1028                                                               | 412                                                          | 1.5                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1540 | 19.1                                            | 1028                                                                | 1028                                                               | 415                                                          | 2.0                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1541 | 19.1                                            | 1028                                                                | 1028                                                               | 412                                                          | 2.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1542 | 19.1                                            | 1028                                                                | 1028                                                               | 410                                                          | 3.0                                      | --                                                                           | 6.8                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1543 | 19.1                                            | 1028                                                                | 1028                                                               | 410                                                          | 3.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 22...    | 1544 | 19.1                                            | 1028                                                                | 1028                                                               | 408                                                          | 4.0                                      | --                                                                           | 6.8                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 23...    | 1210 | 18.7                                            | 1028                                                                | 1028                                                               | 1140                                                         | .30                                      | --                                                                           | 7.0                                            | 7.7                                                                  | 4.05                                                                        | --                                                                      |
| 23...    | 1211 | 18.5                                            | 1028                                                                | 1028                                                               | 1140                                                         | .50                                      | --                                                                           | 6.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1212 | 18.0                                            | 1028                                                                | 1028                                                               | 1390                                                         | 1.0                                      | --                                                                           | 6.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1213 | 17.8                                            | 1028                                                                | 1028                                                               | 1450                                                         | 1.5                                      | --                                                                           | 6.8                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1214 | 17.8                                            | 1028                                                                | 1028                                                               | 1450                                                         | 2.0                                      | --                                                                           | 6.7                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1215 | 17.8                                            | 1028                                                                | 1028                                                               | 1460                                                         | 2.5                                      | --                                                                           | 6.7                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1216 | 17.8                                            | 1028                                                                | 1028                                                               | 1450                                                         | 3.0                                      | --                                                                           | 6.7                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1217 | 17.8                                            | 1028                                                                | 1028                                                               | 1480                                                         | 3.5                                      | --                                                                           | 6.7                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 23...    | 1218 | 17.8                                            | 1028                                                                | 1028                                                               | 1490                                                         | 3.9                                      | --                                                                           | 6.7                                            | 7.6                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| MAR 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1455 | 23.8                                            | 1028                                                                | 1028                                                               | 1810                                                         | .30                                      | 2450                                                                         | 6.6                                            | 7.8                                                                  | 4.85                                                                        | 2.8                                                                     |
| 22...    | 1456 | 23.6                                            | 1028                                                                | 1028                                                               | 1910                                                         | .50                                      | --                                                                           | 6.4                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1457 | 23.5                                            | 1028                                                                | 1028                                                               | 2080                                                         | 1.0                                      | --                                                                           | 6.2                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 22...    | 1458 | 23.1                                            | 1028                                                                | 1028                                                               | 2240                                                         | 1.5                                      | --                                                                           | 6.1                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1459 | 22.9                                            | 1028                                                                | 1028                                                               | 2230                                                         | 2.0                                      | --                                                                           | 6.1                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1500 | 22.9                                            | 1028                                                                | 1028                                                               | 2270                                                         | 2.5                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1501 | 22.8                                            | 1028                                                                | 1028                                                               | 2280                                                         | 3.0                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1502 | 22.8                                            | 1028                                                                | 1028                                                               | 2320                                                         | 3.5                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1503 | 22.7                                            | 1028                                                                | 1028                                                               | 2390                                                         | 4.0                                      | --                                                                           | 5.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 22...    | 1504 | 22.7                                            | 1028                                                                | 1028                                                               | 2420                                                         | 4.5                                      | --                                                                           | 5.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 23...    | 1155 | 22.6                                            | 1028                                                                | 1028                                                               | 3390                                                         | .30                                      | --                                                                           | 6.5                                            | 7.5                                                                  | 4.35                                                                        | --                                                                      |
| 23...    | 1156 | 22.5                                            | 1028                                                                | 1028                                                               | 3390                                                         | .50                                      | --                                                                           | 6.5                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 23...    | 1157 | 22.3                                            | 1028                                                                | 1028                                                               | 3440                                                         | 1.0                                      | --                                                                           | 6.4                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 23...    | 1158 | 22.0                                            | 1028                                                                | 1028                                                               | 3610                                                         | 1.5                                      | --                                                                           | 6.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1159 | 21.9                                            | 1028                                                                | 1028                                                               | 4150                                                         | 2.0                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1200 | 22.0                                            | 1028                                                                | 1028                                                               | 4490                                                         | 2.5                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1201 | 21.9                                            | 1028                                                                | 1028                                                               | 5020                                                         | 3.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1202 | 22.0                                            | 1028                                                                | 1028                                                               | 5080                                                         | 3.5                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1203 | 22.0                                            | 1028                                                                | 1028                                                               | 5310                                                         | 4.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 23...    | 1204 | 22.0                                            | 1028                                                                | 1028                                                               | 5240                                                         | 4.2                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| APR 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 19...    | 1326 | 24.6                                            | 1028                                                                | 1028                                                               | 6990                                                         | .30                                      | 2570                                                                         | 6.5                                            | 7.5                                                                  | 4.45                                                                        | 2.9                                                                     |
| 19...    | 1327 | 24.5                                            | 1028                                                                | 1028                                                               | 7080                                                         | .50                                      | --                                                                           | 6.4                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 19...    | 1328 | 24.1                                            | 1028                                                                | 1028                                                               | 7590                                                         | 1.0                                      | --                                                                           | 6.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 19...    | 1329 | 23.9                                            | 1028                                                                | 1028                                                               | 8310                                                         | 1.5                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 19...    | 1330 | 23.7                                            | 1028                                                                | 1028                                                               | 8880                                                         | 2.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 19...    | 1331 | 23.6                                            | 1028                                                                | 1028                                                               | 9150                                                         | 2.5                                      | --                                                                           | 5.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 19...    | 1332 | 23.3                                            | 1028                                                                | 1028                                                               | 10700                                                        | 3.0                                      | --                                                                           | 5.1                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 19...    | 1333 | 23.1                                            | 1028                                                                | 1028                                                               | 11300                                                        | 3.5                                      | --                                                                           | 4.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 19...    | 1334 | 23.2                                            | 1028                                                                | 1028                                                               | 11300                                                        | 4.0                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 19...    | 1335 | 23.2                                            | 1028                                                                | 1028                                                               | 11200                                                        | 4.3                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 20...    | 1033 | 23.8                                            | 1028                                                                | 1028                                                               | 7150                                                         | .30                                      | --                                                                           | 6.4                                            | 7.5                                                                  | 4.15                                                                        | --                                                                      |
| 20...    | 1034 | 23.5                                            | 1028                                                                | 1028                                                               | 8220                                                         | .50                                      | --                                                                           | 6.4                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 20...    | 1035 | 22.8                                            | 1028                                                                | 1028                                                               | 9630                                                         | 1.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 20...    | 1036 | 22.8                                            | 1028                                                                | 1028                                                               | 10100                                                        | 1.5                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 20...    | 1037 | 22.8                                            | 1028                                                                | 1028                                                               | 10500                                                        | 2.0                                      | --                                                                           | 5.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 20...    | 1038 | 22.8                                            | 1028                                                                | 1028                                                               | 10900                                                        | 2.5                                      | --                                                                           | 5.6                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 20...    | 1039 | 22.8                                            | 1028                                                                | 1028                                                               | 11200                                                        | 3.0                                      | --                                                                           | 5.3                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1040 | 22.7                                            | 1028                                                                | 1028                                                               | 11400                                                        | 3.5                                      | --                                                                           | 5.3                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1041 | 22.8                                            | 1028                                                                | 1028                                                               | 11500                                                        | 4.0                                      | --                                                                           | 5.3                                            | 7.3                                                                  | --                                                                          | --                                                                      |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 25...    | 1349 | 29.4                                            | 1028                                                                | 1028                                                               | 8540                                                         | .30                                      | 3000                                                                         | 7.0                                            | 7.8                                                                  | 4.45                                                                        | 3.2                                                                     |
| 25...    | 1350 | 29.5                                            | 1028                                                                | 1028                                                               | 8740                                                         | .50                                      | --                                                                           | 7.2                                            | 7.8                                                                  | --                                                                          | --                                                                      |
| 25...    | 1351 | 29.5                                            | 1028                                                                | 1028                                                               | 9030                                                         | 1.0                                      | --                                                                           | 7.7                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 25...    | 1352 | 29.1                                            | 1028                                                                | 1028                                                               | 9800                                                         | 1.5                                      | --                                                                           | 6.8                                            | 7.7                                                                  | --                                                                          | --                                                                      |
| 25...    | 1353 | 28.9                                            | 1028                                                                | 1028                                                               | 10100                                                        | 2.0                                      | --                                                                           | 6.0                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1354 | 28.8                                            | 1028                                                                | 1028                                                               | 10900                                                        | 2.5                                      | --                                                                           | 5.6                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 25...    | 1355 | 28.8                                            | 1028                                                                | 1028                                                               | 11100                                                        | 3.0                                      | --                                                                           | 5.7                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...    | 1356 | 28.8                                            | 1028                                                                | 1028                                                               | 11200                                                        | 3.5                                      | --                                                                           | 5.6                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...    | 1357 | 28.8                                            | 1028                                                                | 1028                                                               | 11300                                                        | 4.0                                      | --                                                                           | 5.6                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 25...    | 1358 | 28.8                                            | 1028                                                                | 1028                                                               | 11200                                                        | 4.3                                      | --                                                                           | 5.6                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 26...    | 1050 | 28.4                                            | 1028                                                                | 1028                                                               | 2800                                                         | .30                                      | --                                                                           | 4.8                                            | 7.2                                                                  | 4.55                                                                        | --                                                                      |
| 26...    | 1051 | 28.4                                            | 1028                                                                | 1028                                                               | 2880                                                         | .50                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1052 | 28.4                                            | 1028                                                                | 1028                                                               | 2890                                                         | 1.0                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1053 | 28.4                                            | 1028                                                                | 1028                                                               | 2990                                                         | 1.5                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1054 | 28.4                                            | 1028                                                                | 1028                                                               | 3010                                                         | 2.0                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1055 | 28.4                                            | 1028                                                                | 1028                                                               | 3050                                                         | 2.5                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1056 | 28.5                                            | 1028                                                                | 1028                                                               | 3140                                                         | 3.0                                      | --                                                                           | 4.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1057 | 28.5                                            | 1028                                                                | 1028                                                               | 3210                                                         | 3.5                                      | --                                                                           | 4.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1058 | 28.5                                            | 1028                                                                | 1028                                                               | 3180                                                         | 4.0                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 26...    | 1059 | 28.5                                            | 1028                                                                | 1028                                                               | 3200                                                         | 4.4                                      | --                                                                           | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 22...    | 1334 | 28.4                                            | 1028                                                                | 1028                                                               | 445                                                          | .30                                      | 2240                                                                         | 3.3                                            | 6.8                                                                  | 3.65                                                                        | 1.2                                                                     |
| 22...    | 1335 | 27.5                                            | 1028                                                                | 1028                                                               | 446                                                          | .50                                      | --                                                                           | 3.2                                            | 6.8                                                                  | --                                                                          | --                                                                      |
| 22...    | 1336 | 27.2                                            | 1028                                                                | 1028                                                               | 443                                                          | 1.0                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1337 | 27.2                                            | 1028                                                                | 1028                                                               | 444                                                          | 1.5                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1338 | 27.1                                            | 1028                                                                | 1028                                                               | 439                                                          | 2.0                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1340 | 27.2                                            | 1028                                                                | 1028                                                               | 445                                                          | 2.5                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1341 | 27.2                                            | 1028                                                                | 1028                                                               | 448                                                          | 3.0                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 22...    | 1342 | 27.2                                            | 1028                                                                | 1028                                                               | 445                                                          | 3.5                                      | --                                                                           | 3.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1025 | 27.9                                            | 1028                                                                | 1028                                                               | 461                                                          | .30                                      | --                                                                           | 4.4                                            | 7.0                                                                  | 4.25                                                                        | --                                                                      |
| 23...    | 1026 | 27.7                                            | 1028                                                                | 1028                                                               | 464                                                          | .50                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1027 | 27.6                                            | 1028                                                                | 1028                                                               | 459                                                          | 1.0                                      | --                                                                           | 4.3                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1028 | 27.6                                            | 1028                                                                | 1028                                                               | 457                                                          | 1.5                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1029 | 27.5                                            | 1028                                                                | 1028                                                               | 457                                                          | 2.0                                      | --                                                                           | 4.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1030 | 27.5                                            | 1028                                                                | 1028                                                               | 463                                                          | 2.5                                      | --                                                                           | 4.2                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1031 | 27.5                                            | 1028                                                                | 1028                                                               | 471                                                          | 3.0                                      | --                                                                           | 4.2                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1032 | 27.5                                            | 1028                                                                | 1028                                                               | 459                                                          | 3.5                                      | --                                                                           | 4.2                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 23...    | 1033 | 27.5                                            | 1028                                                                | 1028                                                               | 467                                                          | 4.0                                      | --                                                                           | 4.1                                            | 6.9                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| JUL 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                   |                                                |                                                                      |                                                                             |                                                                         |
| 27...    | 1308 | 31.3                                            | 1028                                                               | 1028                                                              | 339                                                          | .30                                      | 3020                                                              | 3.9                                            | 7.7                                                                  | 4.65                                                                        | .80                                                                     |
| 27...    | 1309 | 31.2                                            | 1028                                                               | 1028                                                              | 346                                                          | .50                                      | --                                                                | 3.9                                            | 7.6                                                                  | --                                                                          | --                                                                      |
| 27...    | 1310 | 30.9                                            | 1028                                                               | 1028                                                              | 342                                                          | 1.0                                      | --                                                                | 3.8                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1311 | 30.8                                            | 1028                                                               | 1028                                                              | 343                                                          | 1.5                                      | --                                                                | 3.7                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 27...    | 1312 | 30.8                                            | 1028                                                               | 1028                                                              | 354                                                          | 2.0                                      | --                                                                | 3.7                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 27...    | 1313 | 30.8                                            | 1028                                                               | 1028                                                              | 352                                                          | 2.5                                      | --                                                                | 3.7                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 27...    | 1314 | 30.8                                            | 1028                                                               | 1028                                                              | 340                                                          | 3.0                                      | --                                                                | 3.7                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 27...    | 1315 | 30.8                                            | 1028                                                               | 1028                                                              | 340                                                          | 3.5                                      | --                                                                | 3.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 27...    | 1316 | 30.8                                            | 1028                                                               | 1028                                                              | 331                                                          | 4.0                                      | --                                                                | 3.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 27...    | 1317 | 30.8                                            | 1028                                                               | 1028                                                              | 332                                                          | 4.5                                      | --                                                                | 3.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1032 | 31.3                                            | 1028                                                               | 1028                                                              | 314                                                          | .30                                      | --                                                                | 4.2                                            | 7.5                                                                  | 4.95                                                                        | --                                                                      |
| 28...    | 1033 | 30.9                                            | 1028                                                               | 1028                                                              | 317                                                          | .50                                      | --                                                                | 4.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 1034 | 30.7                                            | 1028                                                               | 1028                                                              | 317                                                          | 1.0                                      | --                                                                | 4.1                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 28...    | 1035 | 30.3                                            | 1028                                                               | 1028                                                              | 320                                                          | 1.5                                      | --                                                                | 3.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1036 | 30.3                                            | 1028                                                               | 1028                                                              | 312                                                          | 2.0                                      | --                                                                | 3.9                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 28...    | 1037 | 30.2                                            | 1028                                                               | 1028                                                              | 321                                                          | 2.5                                      | --                                                                | 3.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1038 | 30.2                                            | 1028                                                               | 1028                                                              | 314                                                          | 3.0                                      | --                                                                | 3.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1039 | 30.2                                            | 1028                                                               | 1028                                                              | 322                                                          | 3.5                                      | --                                                                | 3.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 28...    | 1040 | 30.2                                            | 1028                                                               | 1028                                                              | 321                                                          | 4.0                                      | --                                                                | 3.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 28...    | 1041 | 30.1                                            | 1028                                                               | 1028                                                              | 319                                                          | 4.5                                      | --                                                                | 3.7                                            | 7.1                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| AUG 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                   |                                                |                                                                      |                                                                             |                                                                         |
| 23...    | 1340 | 28.9                                            | 1028                                                                | 1028                                                               | 289                                                          | .30                                      | 1470                                                              | 5.2                                            | 7.4                                                                  | 4.75                                                                        | .90                                                                     |
| 23...    | 1341 | 28.9                                            | 1028                                                                | 1028                                                               | 286                                                          | .50                                      | --                                                                | 5.1                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 23...    | 1342 | 28.8                                            | 1028                                                                | 1028                                                               | 292                                                          | 1.0                                      | --                                                                | 5.0                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 23...    | 1343 | 28.7                                            | 1028                                                                | 1028                                                               | 283                                                          | 1.5                                      | --                                                                | 4.9                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1344 | 28.3                                            | 1028                                                                | 1028                                                               | 290                                                          | 2.0                                      | --                                                                | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1345 | 28.0                                            | 1028                                                                | 1028                                                               | 288                                                          | 2.5                                      | --                                                                | 4.8                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 23...    | 1346 | 27.9                                            | 1028                                                                | 1028                                                               | 295                                                          | 3.0                                      | --                                                                | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1347 | 27.9                                            | 1028                                                                | 1028                                                               | 282                                                          | 3.5                                      | --                                                                | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1348 | 27.9                                            | 1028                                                                | 1028                                                               | 281                                                          | 4.0                                      | --                                                                | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1349 | 27.9                                            | 1028                                                                | 1028                                                               | 289                                                          | 4.5                                      | --                                                                | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1021 | 27.7                                            | 1028                                                                | 1028                                                               | 296                                                          | .30                                      | --                                                                | 5.1                                            | 7.1                                                                  | 3.95                                                                        | --                                                                      |
| 24...    | 1022 | 27.7                                            | 1028                                                                | 1028                                                               | 296                                                          | .50                                      | --                                                                | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 24...    | 1023 | 27.6                                            | 1028                                                                | 1028                                                               | 301                                                          | 1.0                                      | --                                                                | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1024 | 27.6                                            | 1028                                                                | 1028                                                               | 300                                                          | 1.5                                      | --                                                                | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1025 | 27.6                                            | 1028                                                                | 1028                                                               | 294                                                          | 2.0                                      | --                                                                | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1026 | 27.6                                            | 1028                                                                | 1028                                                               | 296                                                          | 2.5                                      | --                                                                | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1027 | 27.5                                            | 1028                                                                | 1028                                                               | 298                                                          | 3.0                                      | --                                                                | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1028 | 27.5                                            | 1028                                                                | 1028                                                               | 307                                                          | 3.5                                      | --                                                                | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1029 | 27.5                                            | 1028                                                                | 1028                                                               | 306                                                          | 3.8                                      | --                                                                | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| SEP 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 23...    | 1321 | 26.5                                            | 1028                                                               | 1028                                                              | 314                                                          | .30                                      | 1770                                                                         | 4.9                                            | 7.2                                                                  | 4.35                                                                        | 1.0                                                                     |
| 23...    | 1322 | 26.5                                            | 1028                                                               | 1028                                                              | 314                                                          | .50                                      | --                                                                           | 4.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1323 | 26.5                                            | 1028                                                               | 1028                                                              | 315                                                          | 1.0                                      | --                                                                           | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1324 | 26.4                                            | 1028                                                               | 1028                                                              | 315                                                          | 1.5                                      | --                                                                           | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1325 | 26.4                                            | 1028                                                               | 1028                                                              | 314                                                          | 2.0                                      | --                                                                           | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1326 | 26.4                                            | 1028                                                               | 1028                                                              | 313                                                          | 2.5                                      | --                                                                           | 4.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 23...    | 1327 | 26.4                                            | 1028                                                               | 1028                                                              | 314                                                          | 3.0                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1328 | 26.4                                            | 1028                                                               | 1028                                                              | 314                                                          | 3.5                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 23...    | 1329 | 26.3                                            | 1028                                                               | 1028                                                              | 313                                                          | 4.0                                      | --                                                                           | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1057 | 26.5                                            | 1028                                                               | 1028                                                              | 286                                                          | .30                                      | --                                                                           | 5.2                                            | 7.0                                                                  | 5.05                                                                        | --                                                                      |
| 24...    | 1058 | 26.5                                            | 1028                                                               | 1028                                                              | 288                                                          | .50                                      | --                                                                           | 5.2                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1059 | 26.0                                            | 1028                                                               | 1028                                                              | 284                                                          | 1.0                                      | --                                                                           | 5.1                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1100 | 25.9                                            | 1028                                                               | 1028                                                              | 288                                                          | 1.5                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1101 | 25.6                                            | 1028                                                               | 1028                                                              | 286                                                          | 2.0                                      | --                                                                           | 4.8                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1102 | 25.6                                            | 1028                                                               | 1028                                                              | 285                                                          | 2.5                                      | --                                                                           | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1103 | 25.6                                            | 1028                                                               | 1028                                                              | 294                                                          | 3.0                                      | --                                                                           | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1104 | 25.6                                            | 1028                                                               | 1028                                                              | 284                                                          | 3.5                                      | --                                                                           | 4.7                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 24...    | 1105 | 25.6                                            | 1028                                                               | 1028                                                              | 288                                                          | 4.0                                      | --                                                                           | 4.7                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 24...    | 1106 | 25.5                                            | 1028                                                               | 1028                                                              | 290                                                          | 4.5                                      | --                                                                           | 4.6                                            | 6.9                                                                  | --                                                                          | --                                                                      |
| 24...    | 1107 | 25.5                                            | 1028                                                               | 1028                                                              | 282                                                          | 4.9                                      | --                                                                           | 4.6                                            | 6.9                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>1 % OF<br>SURFACE<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| OCT 1999 |      |                                                 |                                                                     |                                                                    |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 19...    | 1412 | 26.0                                            | 1028                                                                | 1028                                                               | 242                                                          | .30                                      | 2500                                                                         | 5.5                                            | 7.1                                                                  | 3.95                                                                        | .80                                                                     |
| 19...    | 1413 | 25.8                                            | 1028                                                                | 1028                                                               | 238                                                          | .50                                      | --                                                                           | 5.5                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1414 | 25.8                                            | 1028                                                                | 1028                                                               | 243                                                          | 1.0                                      | --                                                                           | 5.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1415 | 25.8                                            | 1028                                                                | 1028                                                               | 230                                                          | 1.5                                      | --                                                                           | 5.3                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1416 | 25.8                                            | 1028                                                                | 1028                                                               | 232                                                          | 2.0                                      | --                                                                           | 5.2                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1417 | 25.7                                            | 1028                                                                | 1028                                                               | 241                                                          | 2.5                                      | --                                                                           | 5.1                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1418 | 25.8                                            | 1028                                                                | 1028                                                               | 226                                                          | 3.0                                      | --                                                                           | 5.1                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1419 | 25.7                                            | 1028                                                                | 1028                                                               | 236                                                          | 3.5                                      | --                                                                           | 5.1                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 19...    | 1421 | 25.7                                            | 1028                                                                | 1028                                                               | 247                                                          | 3.8                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1153 | 27.1                                            | 1028                                                                | 1028                                                               | 248                                                          | .30                                      | --                                                                           | 5.2                                            | 7.0                                                                  | 4.65                                                                        | --                                                                      |
| 20...    | 1154 | 26.7                                            | 1028                                                                | 1028                                                               | 248                                                          | .50                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1155 | 26.1                                            | 1028                                                                | 1028                                                               | 250                                                          | 1.0                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1156 | 25.7                                            | 1028                                                                | 1028                                                               | 250                                                          | 1.5                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1157 | 25.7                                            | 1028                                                                | 1028                                                               | 250                                                          | 2.0                                      | --                                                                           | 5.0                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1158 | 25.7                                            | 1028                                                                | 1028                                                               | 250                                                          | 2.5                                      | --                                                                           | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1159 | 25.6                                            | 1028                                                                | 1028                                                               | 249                                                          | 3.0                                      | --                                                                           | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1200 | 25.6                                            | 1028                                                                | 1028                                                               | 249                                                          | 3.5                                      | --                                                                           | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1201 | 25.6                                            | 1028                                                                | 1028                                                               | 249                                                          | 4.0                                      | --                                                                           | 4.9                                            | 7.0                                                                  | --                                                                          | --                                                                      |
| 20...    | 1202 | 25.6                                            | 1028                                                                | 1028                                                               | 249                                                          | 4.5                                      | --                                                                           | 4.9                                            | 6.9                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| NOV 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 16...    | 1334 | 22.7                                            | 1028                                                               | 1028                                                              | 353                                                          | .30                                      | 2540                                                                         | 5.9                                            | 7.0                                                                  | 4.65                                                                        | 1.2                                                                     |
| 16...    | 1337 | 22.7                                            | 1028                                                               | 1028                                                              | 351                                                          | .50                                      | --                                                                           | 5.9                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 16...    | 1338 | 22.6                                            | 1028                                                               | 1028                                                              | 363                                                          | 1.0                                      | --                                                                           | 5.8                                            | 7.1                                                                  | --                                                                          | --                                                                      |
| 16...    | 1339 | 22.6                                            | 1028                                                               | 1028                                                              | 365                                                          | 1.5                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1340 | 22.6                                            | 1028                                                               | 1028                                                              | 368                                                          | 2.0                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1341 | 22.6                                            | 1028                                                               | 1028                                                              | 370                                                          | 2.5                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1342 | 22.6                                            | 1028                                                               | 1028                                                              | 365                                                          | 3.0                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1343 | 22.6                                            | 1028                                                               | 1028                                                              | 369                                                          | 3.5                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1344 | 22.6                                            | 1028                                                               | 1028                                                              | 367                                                          | 4.0                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 16...    | 1345 | 22.7                                            | 1028                                                               | 1028                                                              | 365                                                          | 4.5                                      | --                                                                           | 5.7                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 17...    | 1211 | 22.0                                            | 1028                                                               | 1028                                                              | 388                                                          | .30                                      | --                                                                           | 6.4                                            | 7.5                                                                  | 4.05                                                                        | --                                                                      |
| 17...    | 1212 | 22.0                                            | 1028                                                               | 1028                                                              | 387                                                          | .50                                      | --                                                                           | 6.3                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 17...    | 1213 | 21.8                                            | 1028                                                               | 1028                                                              | 384                                                          | 1.0                                      | --                                                                           | 6.3                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1214 | 21.8                                            | 1028                                                               | 1028                                                              | 385                                                          | 1.5                                      | --                                                                           | 6.2                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1215 | 21.3                                            | 1028                                                               | 1028                                                              | 450                                                          | 2.0                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1216 | 21.4                                            | 1028                                                               | 1028                                                              | 438                                                          | 2.5                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1217 | 21.4                                            | 1028                                                               | 1028                                                              | 439                                                          | 3.0                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1218 | 21.4                                            | 1028                                                               | 1028                                                              | 474                                                          | 3.5                                      | --                                                                           | 6.0                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 17...    | 1219 | 21.4                                            | 1028                                                               | 1028                                                              | 475                                                          | 3.9                                      | --                                                                           | 6.0                                            | 7.3                                                                  | --                                                                          | --                                                                      |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | LIGHT<br>INCID.<br>400-<br>700NM<br>INTENS.<br>(U-EINS<br>/SQM/S)<br>(00200) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | LIGHT<br>DEPTH<br>TO<br>SURFACE<br>1 % OF<br>LIGHT<br>METERS<br>(85328) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| DEC 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                                              |                                                |                                                                      |                                                                             |                                                                         |
| 20...    | 1341 | 20.3                                            | 1028                                                               | 1028                                                              | 956                                                          | .30                                      | 2000                                                                         | 6.6                                            | 7.2                                                                  | 4.55                                                                        | 2.2                                                                     |
| 20...    | 1342 | 20.2                                            | 1028                                                               | 1028                                                              | 957                                                          | .50                                      | --                                                                           | 6.6                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 20...    | 1343 | 20.0                                            | 1028                                                               | 1028                                                              | 1100                                                         | 1.0                                      | --                                                                           | 6.5                                            | 7.2                                                                  | --                                                                          | --                                                                      |
| 20...    | 1344 | 20.1                                            | 1028                                                               | 1028                                                              | 1160                                                         | 1.5                                      | --                                                                           | 6.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1346 | 20.1                                            | 1028                                                               | 1028                                                              | 1220                                                         | 2.0                                      | --                                                                           | 6.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1347 | 20.1                                            | 1028                                                               | 1028                                                              | 1270                                                         | 2.5                                      | --                                                                           | 6.6                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1348 | 20.1                                            | 1028                                                               | 1028                                                              | 1310                                                         | 3.0                                      | --                                                                           | 6.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1349 | 20.1                                            | 1028                                                               | 1028                                                              | 1340                                                         | 3.5                                      | --                                                                           | 6.5                                            | 7.3                                                                  | --                                                                          | --                                                                      |
| 20...    | 1350 | 20.2                                            | 1028                                                               | 1028                                                              | 1330                                                         | 4.0                                      | --                                                                           | 6.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 20...    | 1351 | 20.2                                            | 1028                                                               | 1028                                                              | 1320                                                         | 4.4                                      | --                                                                           | 6.5                                            | 7.4                                                                  | --                                                                          | --                                                                      |
| 21...    | 1221 | 20.4                                            | 1028                                                               | 1028                                                              | 622                                                          | .30                                      | --                                                                           | 7.1                                            | 7.5                                                                  | 4.35                                                                        | --                                                                      |
| 21...    | 1222 | 20.2                                            | 1028                                                               | 1028                                                              | 617                                                          | .50                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1223 | 20.1                                            | 1028                                                               | 1028                                                              | 623                                                          | 1.0                                      | --                                                                           | 7.0                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1224 | 20.0                                            | 1028                                                               | 1028                                                              | 613                                                          | 1.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1225 | 20.0                                            | 1028                                                               | 1028                                                              | 624                                                          | 2.0                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1226 | 20.0                                            | 1028                                                               | 1028                                                              | 623                                                          | 2.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1227 | 20.0                                            | 1028                                                               | 1028                                                              | 626                                                          | 3.0                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1228 | 20.0                                            | 1028                                                               | 1028                                                              | 607                                                          | 3.5                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |
| 21...    | 1229 | 20.0                                            | 1028                                                               | 1028                                                              | 629                                                          | 4.0                                      | --                                                                           | 6.9                                            | 7.5                                                                  | --                                                                          | --                                                                      |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270337081595800 - PEACE R. AT RIVER MILE 15.45 NEAR PT. CHARLOTTE

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1231 | 24.2                                            | 1028                                                               | 1028                                                              | 275                                                          | .30                                      | 5.5                                            | 7.5                                                                  | 1.65                                                                        |
| 29...    | 1232 | 24.1                                            | 1028                                                               | 1028                                                              | 276                                                          | .50                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 29...    | 1233 | 24.0                                            | 1028                                                               | 1028                                                              | 278                                                          | 1.0                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 29...    | 1234 | 24.0                                            | 1028                                                               | 1028                                                              | 276                                                          | 1.5                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1220 | 24.5                                            | 1028                                                               | 1028                                                              | 322                                                          | .30                                      | 6.0                                            | 7.3                                                                  | 1.15                                                                        |
| 18...    | 1221 | 24.5                                            | 1028                                                               | 1028                                                              | 322                                                          | .50                                      | 6.0                                            | 7.2                                                                  | --                                                                          |
| 18...    | 1222 | 24.5                                            | 1028                                                               | 1028                                                              | 322                                                          | 1.0                                      | 6.0                                            | 7.2                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1223 | 21.8                                            | 1028                                                               | 1028                                                              | 1060                                                         | .30                                      | 6.3                                            | 7.6                                                                  | 1.65                                                                        |
| 29...    | 1224 | 21.7                                            | 1028                                                               | 1028                                                              | 1080                                                         | .50                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1225 | 21.7                                            | 1028                                                               | 1028                                                              | 1150                                                         | 1.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1226 | 21.7                                            | 1028                                                               | 1028                                                              | 1160                                                         | 1.5                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1312 | 21.4                                            | 1028                                                               | 1028                                                              | 414                                                          | .30                                      | 6.6                                            | 7.5                                                                  | 1.25                                                                        |
| 26...    | 1313 | 21.1                                            | 1028                                                               | 1028                                                              | 417                                                          | .50                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1314 | 20.4                                            | 1028                                                               | 1028                                                              | 409                                                          | 1.0                                      | 6.6                                            | 7.4                                                                  | --                                                                          |
| FEB      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1225 | 17.9                                            | 1028                                                               | 1028                                                              | 573                                                          | .30                                      | 7.2                                            | 7.5                                                                  | 1.15                                                                        |
| 23...    | 1226 | 18.0                                            | 1028                                                               | 1028                                                              | 575                                                          | .50                                      | 7.1                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1227 | 17.9                                            | 1028                                                               | 1028                                                              | 570                                                          | 1.0                                      | 7.1                                            | 7.6                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1214 | 23.0                                            | 1028                                                               | 1028                                                              | 1730                                                         | .30                                      | 6.7                                            | 7.6                                                                  | 1.15                                                                        |
| 23...    | 1215 | 23.0                                            | 1028                                                               | 1028                                                              | 1730                                                         | .50                                      | 6.6                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1216 | 22.6                                            | 1028                                                               | 1028                                                              | 1710                                                         | 1.0                                      | 6.4                                            | 7.6                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1042 | 24.0                                            | 1028                                                               | 1028                                                              | 5600                                                         | .30                                      | 6.3                                            | 7.5                                                                  | 1.85                                                                        |
| 20...    | 1043 | 23.7                                            | 1028                                                               | 1028                                                              | 6000                                                         | .50                                      | 6.3                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1044 | 23.6                                            | 1028                                                               | 1028                                                              | 6110                                                         | 1.0                                      | 6.2                                            | 7.5                                                                  | --                                                                          |
| 20...    | 1045 | 23.4                                            | 1028                                                               | 1028                                                              | 6460                                                         | 1.5                                      | 6.2                                            | 7.4                                                                  | --                                                                          |
| 20...    | 1046 | 23.5                                            | 1028                                                               | 1028                                                              | 6670                                                         | 1.7                                      | 6.3                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270337081595800 - PEACE R. AT RIVER MILE 15.45 NEAR PT. CHARLOTTE

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1100 | 28.1                                            | 1028                                                               | 1028                                                              | 1410                                                         | .30                                      | 5.0                                            | 7.6                                                                  | 1.55                                                                        |
| 26...    | 1101 | 28.1                                            | 1028                                                               | 1028                                                              | 1410                                                         | .50                                      | 4.9                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1102 | 28.1                                            | 1028                                                               | 1028                                                              | 1420                                                         | 1.0                                      | 4.9                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1103 | 28.1                                            | 1028                                                               | 1028                                                              | 1420                                                         | 1.4                                      | 4.9                                            | 7.4                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1034 | 28.2                                            | 1028                                                               | 1028                                                              | 452                                                          | .30                                      | 4.6                                            | 7.1                                                                  | 1.65                                                                        |
| 23...    | 1035 | 28.1                                            | 1028                                                               | 1028                                                              | 456                                                          | .50                                      | 4.5                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1036 | 27.9                                            | 1028                                                               | 1028                                                              | 454                                                          | 1.0                                      | 4.4                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1037 | 27.6                                            | 1028                                                               | 1028                                                              | 456                                                          | 1.5                                      | 4.3                                            | 7.0                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1042 | 31.0                                            | 1028                                                               | 1028                                                              | 313                                                          | .30                                      | 4.3                                            | 7.7                                                                  | 4.65                                                                        |
| 28...    | 1043 | 30.8                                            | 1028                                                               | 1028                                                              | 309                                                          | .50                                      | 4.0                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1044 | 30.4                                            | 1028                                                               | 1028                                                              | 306                                                          | 1.0                                      | 3.9                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1045 | 30.4                                            | 1028                                                               | 1028                                                              | 317                                                          | 1.5                                      | 3.9                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1046 | 30.4                                            | 1028                                                               | 1028                                                              | 321                                                          | 2.0                                      | 3.9                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1047 | 30.4                                            | 1028                                                               | 1028                                                              | 306                                                          | 2.5                                      | 3.9                                            | 7.3                                                                  | --                                                                          |
| 28...    | 1048 | 30.4                                            | 1028                                                               | 1028                                                              | 314                                                          | 3.0                                      | 3.8                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1049 | 30.3                                            | 1028                                                               | 1028                                                              | 318                                                          | 3.5                                      | 3.6                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1050 | 30.2                                            | 1028                                                               | 1028                                                              | 310                                                          | 4.0                                      | 3.5                                            | 7.2                                                                  | --                                                                          |
| 28...    | 1051 | 30.2                                            | 1028                                                               | 1028                                                              | 332                                                          | 4.5                                      | 3.5                                            | 7.1                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1030 | 28.2                                            | 1028                                                               | 1028                                                              | 303                                                          | .30                                      | 5.1                                            | 7.0                                                                  | 3.15                                                                        |
| 24...    | 1031 | 28.3                                            | 1028                                                               | 1028                                                              | 294                                                          | .50                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1032 | 28.1                                            | 1028                                                               | 1028                                                              | 291                                                          | 1.0                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1033 | 28.0                                            | 1028                                                               | 1028                                                              | 304                                                          | 1.5                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1034 | 27.8                                            | 1028                                                               | 1028                                                              | 292                                                          | 2.0                                      | 4.9                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1035 | 27.7                                            | 1028                                                               | 1028                                                              | 299                                                          | 2.5                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1036 | 27.6                                            | 1028                                                               | 1028                                                              | 291                                                          | 3.0                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1108 | 25.9                                            | 1028                                                               | 1028                                                              | 281                                                          | .30                                      | 5.5                                            | 7.1                                                                  | 1.65                                                                        |
| 24...    | 1109 | 25.9                                            | 1028                                                               | 1028                                                              | 279                                                          | .50                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1110 | 25.8                                            | 1028                                                               | 1028                                                              | 282                                                          | 1.0                                      | 5.3                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1111 | 25.7                                            | 1028                                                               | 1028                                                              | 283                                                          | 1.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270337081595800 - PEACE R. AT RIVER MILE 15.45 NEAR PT. CHARLOTTE

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1203 | 27.3                                            | 1028                                                               | 1028                                                              | 251                                                          | .30                                      | 5.2                                            | 7.0                                                                  | 1.45                                                                        |
| 20...    | 1204 | 26.4                                            | 1028                                                               | 1028                                                              | 247                                                          | .50                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1205 | 26.0                                            | 1028                                                               | 1028                                                              | 248                                                          | 1.0                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1206 | 25.9                                            | 1028                                                               | 1028                                                              | 249                                                          | 1.3                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1221 | 21.4                                            | 1028                                                               | 1028                                                              | 340                                                          | .30                                      | 6.7                                            | 7.5                                                                  | 1.75                                                                        |
| 17...    | 1222 | 21.4                                            | 1028                                                               | 1028                                                              | 344                                                          | .50                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1223 | 21.2                                            | 1028                                                               | 1028                                                              | 355                                                          | 1.0                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1224 | 21.2                                            | 1028                                                               | 1028                                                              | 354                                                          | 1.5                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1237 | 20.3                                            | 1028                                                               | 1028                                                              | 558                                                          | .30                                      | 7.2                                            | 7.5                                                                  | 1.15                                                                        |
| 21...    | 1238 | 20.3                                            | 1028                                                               | 1028                                                              | 559                                                          | .50                                      | 7.1                                            | 7.5                                                                  | --                                                                          |
| 21...    | 1239 | 20.2                                            | 1028                                                               | 1028                                                              | 561                                                          | 1.0                                      | 7.1                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270418082001600 - PEACE RIVER AT RIVER MILE 16.29 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1240 | 24.2                                            | 1028                                                               | 1028                                                              | 280                                                          | .30                                      | 5.7                                            | 7.3                                                                  | 1.45                                                                        |
| 29...    | 1241 | 24.1                                            | 1028                                                               | 1028                                                              | 277                                                          | .50                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1242 | 24.1                                            | 1028                                                               | 1028                                                              | 277                                                          | 1.0                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1243 | 24.1                                            | 1028                                                               | 1028                                                              | 279                                                          | 1.3                                      | 5.7                                            | 7.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1228 | 24.3                                            | 1028                                                               | 1028                                                              | 322                                                          | .30                                      | 6.3                                            | 7.3                                                                  | .95                                                                         |
| 18...    | 1229 | 24.2                                            | 1028                                                               | 1028                                                              | 331                                                          | .50                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1230 | 24.1                                            | 1028                                                               | 1028                                                              | 320                                                          | .80                                      | 6.2                                            | 7.3                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1232 | 21.7                                            | 1028                                                               | 1028                                                              | 700                                                          | .30                                      | 6.4                                            | 7.7                                                                  | 1.25                                                                        |
| 29...    | 1233 | 21.7                                            | 1028                                                               | 1028                                                              | 716                                                          | .50                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| 29...    | 1234 | 21.7                                            | 1028                                                               | 1028                                                              | 705                                                          | 1.0                                      | 6.3                                            | 7.6                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1320 | 20.5                                            | 1028                                                               | 1028                                                              | 415                                                          | .30                                      | 6.8                                            | 7.5                                                                  | 1.35                                                                        |
| 26...    | 1321 | 20.5                                            | 1028                                                               | 1028                                                              | 407                                                          | .50                                      | 6.8                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1322 | 20.2                                            | 1028                                                               | 1028                                                              | 413                                                          | 1.0                                      | 6.7                                            | 7.5                                                                  | --                                                                          |
| 26...    | 1323 | 20.2                                            | 1028                                                               | 1028                                                              | 411                                                          | 1.2                                      | 6.7                                            | 7.4                                                                  | --                                                                          |
| FEB      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1313 | 19.2                                            | 1028                                                               | 1028                                                              | 432                                                          | .30                                      | 7.4                                            | 7.7                                                                  | 1.55                                                                        |
| 23...    | 1314 | 18.3                                            | 1028                                                               | 1028                                                              | 435                                                          | .50                                      | 7.1                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1315 | 18.0                                            | 1028                                                               | 1028                                                              | 435                                                          | 1.0                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1316 | 18.0                                            | 1028                                                               | 1028                                                              | 434                                                          | 1.4                                      | 7.1                                            | 7.6                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1225 | 23.2                                            | 1028                                                               | 1028                                                              | 1040                                                         | .30                                      | 6.8                                            | 7.2                                                                  | 1.35                                                                        |
| 23...    | 1226 | 23.2                                            | 1028                                                               | 1028                                                              | 1040                                                         | .50                                      | 6.7                                            | 7.3                                                                  | --                                                                          |
| 23...    | 1227 | 23.1                                            | 1028                                                               | 1028                                                              | 1030                                                         | 1.0                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 23...    | 1228 | 22.9                                            | 1028                                                               | 1028                                                              | 1010                                                         | 1.2                                      | 7.0                                            | 7.5                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1105 | 23.7                                            | 1028                                                               | 1028                                                              | 4360                                                         | .30                                      | 6.1                                            | 7.0                                                                  | 1.25                                                                        |
| 20...    | 1106 | 23.5                                            | 1028                                                               | 1028                                                              | 4430                                                         | .50                                      | 6.1                                            | 7.2                                                                  | --                                                                          |
| 20...    | 1107 | 23.4                                            | 1028                                                               | 1028                                                              | 4500                                                         | 1.0                                      | 6.2                                            | 7.2                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270418082001600 - PEACE RIVER AT RIVER MILE 16.29 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1105 | 28.2                                            | 1028                                                               | 1028                                                              | 842                                                          | .30                                      | 4.6                                            | 7.3                                                                  | 1.25                                                                        |
| 26...    | 1106 | 28.2                                            | 1028                                                               | 1028                                                              | 838                                                          | .50                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1107 | 28.2                                            | 1028                                                               | 1028                                                              | 839                                                          | 1.0                                      | 4.6                                            | 7.3                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1040 | 30.2                                            | 1028                                                               | 1028                                                              | 432                                                          | .30                                      | 4.5                                            | 7.0                                                                  | 1.65                                                                        |
| 23...    | 1041 | 27.4                                            | 1028                                                               | 1028                                                              | 430                                                          | .50                                      | 4.7                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1042 | 27.1                                            | 1028                                                               | 1028                                                              | 448                                                          | 1.0                                      | 4.7                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1043 | 27.0                                            | 1028                                                               | 1028                                                              | 447                                                          | 1.5                                      | 4.6                                            | 7.0                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1052 | 32.6                                            | 1028                                                               | 1028                                                              | 299                                                          | .30                                      | 4.7                                            | 7.7                                                                  | 1.45                                                                        |
| 28...    | 1053 | 31.7                                            | 1028                                                               | 1028                                                              | 315                                                          | .50                                      | 4.6                                            | 7.6                                                                  | --                                                                          |
| 28...    | 1054 | 30.9                                            | 1028                                                               | 1028                                                              | 305                                                          | 1.0                                      | 4.6                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1055 | 30.8                                            | 1028                                                               | 1028                                                              | 310                                                          | 1.3                                      | 4.5                                            | 7.5                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1039 | 27.7                                            | 1028                                                               | 1028                                                              | 285                                                          | .30                                      | 5.5                                            | 7.1                                                                  | 1.65                                                                        |
| 24...    | 1040 | 27.5                                            | 1028                                                               | 1028                                                              | 289                                                          | .50                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1041 | 27.3                                            | 1028                                                               | 1028                                                              | 288                                                          | 1.0                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1042 | 27.2                                            | 1028                                                               | 1028                                                              | 285                                                          | 1.5                                      | 5.3                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1113 | 25.9                                            | 1028                                                               | 1028                                                              | 275                                                          | .30                                      | 5.5                                            | 7.1                                                                  | 1.35                                                                        |
| 24...    | 1114 | 25.7                                            | 1028                                                               | 1028                                                              | 277                                                          | .50                                      | 5.5                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1115 | 25.7                                            | 1028                                                               | 1028                                                              | 277                                                          | 1.0                                      | 5.4                                            | 7.1                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1209 | 27.0                                            | 1028                                                               | 1028                                                              | 247                                                          | .30                                      | 5.7                                            | 7.0                                                                  | 1.55                                                                        |
| 20...    | 1210 | 26.5                                            | 1028                                                               | 1028                                                              | 256                                                          | .50                                      | 5.6                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1211 | 25.6                                            | 1028                                                               | 1028                                                              | 243                                                          | 1.0                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1212 | 25.4                                            | 1028                                                               | 1028                                                              | 253                                                          | 1.4                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1229 | 21.3                                            | 1028                                                               | 1028                                                              | 346                                                          | .30                                      | 6.7                                            | 7.5                                                                  | 1.45                                                                        |
| 17...    | 1230 | 21.3                                            | 1028                                                               | 1028                                                              | 343                                                          | .50                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1231 | 21.2                                            | 1028                                                               | 1028                                                              | 350                                                          | 1.0                                      | 6.6                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1232 | 21.2                                            | 1028                                                               | 1028                                                              | 352                                                          | 1.3                                      | 6.5                                            | 7.5                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270418082001600 - PEACE RIVER AT RIVER MILE 16.29 NEAR FT. OGDEN

WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DEC 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1244 | 20.1                                            | 1028                                                               | 1028                                                              | 469                                                          | .30                                      | 7.3                                            | 7.6                                                                  | 1.15                                                                        |
| 21...    | 1245 | 20.0                                            | 1028                                                               | 1028                                                              | 495                                                          | .50                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1246 | 20.0                                            | 1028                                                               | 1028                                                              | 486                                                          | 1.0                                      | 7.3                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270451081595100 - PEACE R. AT RIVER MILE 18.25 NEAR FT. OGDEN FL  
 WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1301 | 24.1                                            | 1028                                                               | 1028                                                              | 280                                                          | .30                                      | 6.0                                            | 7.3                                                                  | 3.65                                                                        |
| 29...    | 1302 | 24.1                                            | 1028                                                               | 1028                                                              | 281                                                          | .50                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1303 | 24.1                                            | 1028                                                               | 1028                                                              | 280                                                          | 1.0                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1304 | 24.1                                            | 1028                                                               | 1028                                                              | 278                                                          | 1.5                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1305 | 24.1                                            | 1028                                                               | 1028                                                              | 283                                                          | 2.0                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1306 | 24.1                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.5                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1307 | 24.1                                            | 1028                                                               | 1028                                                              | 282                                                          | 3.0                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1308 | 24.1                                            | 1028                                                               | 1028                                                              | 276                                                          | 3.5                                      | 6.0                                            | 7.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1310 | 24.1                                            | 1028                                                               | 1028                                                              | 322                                                          | .30                                      | 6.5                                            | 7.4                                                                  | 2.85                                                                        |
| 18...    | 1311 | 24.1                                            | 1028                                                               | 1028                                                              | 322                                                          | .50                                      | 6.4                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1312 | 24.0                                            | 1028                                                               | 1028                                                              | 321                                                          | 1.0                                      | 6.4                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1313 | 24.0                                            | 1028                                                               | 1028                                                              | 330                                                          | 1.5                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1314 | 23.9                                            | 1028                                                               | 1028                                                              | 330                                                          | 2.0                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1315 | 23.8                                            | 1028                                                               | 1028                                                              | 323                                                          | 2.5                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1253 | 21.6                                            | 1028                                                               | 1028                                                              | 500                                                          | .30                                      | 7.5                                            | 7.9                                                                  | 4.25                                                                        |
| 29...    | 1254 | 21.6                                            | 1028                                                               | 1028                                                              | 504                                                          | .50                                      | 7.5                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1255 | 21.6                                            | 1028                                                               | 1028                                                              | 494                                                          | 1.0                                      | 7.4                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1256 | 21.6                                            | 1028                                                               | 1028                                                              | 496                                                          | 1.5                                      | 7.4                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1257 | 21.5                                            | 1028                                                               | 1028                                                              | 496                                                          | 2.0                                      | 7.3                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1258 | 21.5                                            | 1028                                                               | 1028                                                              | 504                                                          | 2.5                                      | 7.3                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1259 | 21.5                                            | 1028                                                               | 1028                                                              | 498                                                          | 3.0                                      | 7.3                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1300 | 21.5                                            | 1028                                                               | 1028                                                              | 504                                                          | 3.5                                      | 7.3                                            | 7.8                                                                  | --                                                                          |
| 29...    | 1301 | 21.5                                            | 1028                                                               | 1028                                                              | 501                                                          | 4.0                                      | 7.3                                            | 7.8                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1342 | 20.2                                            | 1028                                                               | 1028                                                              | 385                                                          | .30                                      | 6.9                                            | 7.4                                                                  | 3.65                                                                        |
| 26...    | 1343 | 20.2                                            | 1028                                                               | 1028                                                              | 381                                                          | .50                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1344 | 20.1                                            | 1028                                                               | 1028                                                              | 394                                                          | 1.0                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1345 | 20.0                                            | 1028                                                               | 1028                                                              | 383                                                          | 1.5                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1346 | 20.1                                            | 1028                                                               | 1028                                                              | 390                                                          | 2.0                                      | 6.8                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1347 | 20.1                                            | 1028                                                               | 1028                                                              | 384                                                          | 2.5                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1348 | 20.1                                            | 1028                                                               | 1028                                                              | 387                                                          | 3.0                                      | 6.8                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1349 | 20.1                                            | 1028                                                               | 1028                                                              | 392                                                          | 3.5                                      | 6.8                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270451081595100 - PEACE R. AT RIVER MILE 18.25 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1337 | 18.6                                            | 1028                                                               | 1028                                                              | 419                                                          | .30                                      | 7.6                                            | 7.7                                                                  | 3.75                                                                        |
| 23...    | 1338 | 18.3                                            | 1028                                                               | 1028                                                              | 418                                                          | .50                                      | 7.5                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1339 | 18.1                                            | 1028                                                               | 1028                                                              | 420                                                          | 1.0                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1340 | 17.9                                            | 1028                                                               | 1028                                                              | 421                                                          | 1.5                                      | 7.5                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1341 | 17.8                                            | 1028                                                               | 1028                                                              | 422                                                          | 2.0                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1342 | 17.7                                            | 1028                                                               | 1028                                                              | 418                                                          | 2.5                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1343 | 17.7                                            | 1028                                                               | 1028                                                              | 420                                                          | 3.0                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1344 | 17.7                                            | 1028                                                               | 1028                                                              | 421                                                          | 3.5                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1250 | 23.7                                            | 1028                                                               | 1028                                                              | 574                                                          | .30                                      | 7.5                                            | 7.7                                                                  | 3.45                                                                        |
| 23...    | 1251 | 23.4                                            | 1028                                                               | 1028                                                              | 573                                                          | .50                                      | 7.4                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1252 | 23.0                                            | 1028                                                               | 1028                                                              | 572                                                          | 1.0                                      | 7.3                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1253 | 22.5                                            | 1028                                                               | 1028                                                              | 574                                                          | 1.5                                      | 7.1                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1254 | 22.1                                            | 1028                                                               | 1028                                                              | 574                                                          | 2.0                                      | 6.8                                            | 7.7                                                                  | --                                                                          |
| 23...    | 1255 | 22.1                                            | 1028                                                               | 1028                                                              | 573                                                          | 2.5                                      | 6.8                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1256 | 22.1                                            | 1028                                                               | 1028                                                              | 572                                                          | 3.0                                      | 6.8                                            | 7.6                                                                  | --                                                                          |
| 23...    | 1257 | 22.1                                            | 1028                                                               | 1028                                                              | 576                                                          | 3.3                                      | 6.8                                            | 7.6                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1132 | 24.3                                            | 1028                                                               | 1028                                                              | 1520                                                         | .30                                      | 6.8                                            | 7.7                                                                  | 3.45                                                                        |
| 20...    | 1133 | 24.0                                            | 1028                                                               | 1028                                                              | 1540                                                         | .50                                      | 6.8                                            | 7.7                                                                  | --                                                                          |
| 20...    | 1134 | 23.8                                            | 1028                                                               | 1028                                                              | 1570                                                         | 1.0                                      | 6.6                                            | 7.7                                                                  | --                                                                          |
| 20...    | 1135 | 23.5                                            | 1028                                                               | 1028                                                              | 1580                                                         | 1.5                                      | 6.5                                            | 7.7                                                                  | --                                                                          |
| 20...    | 1136 | 23.2                                            | 1028                                                               | 1028                                                              | 1650                                                         | 2.0                                      | 6.2                                            | 7.6                                                                  | --                                                                          |
| 20...    | 1137 | 23.3                                            | 1028                                                               | 1028                                                              | 1650                                                         | 2.5                                      | 6.2                                            | 7.6                                                                  | --                                                                          |
| 20...    | 1138 | 23.2                                            | 1028                                                               | 1028                                                              | 1670                                                         | 3.0                                      | 6.2                                            | 7.6                                                                  | --                                                                          |
| 20...    | 1139 | 23.2                                            | 1028                                                               | 1028                                                              | 1670                                                         | 3.3                                      | 6.1                                            | 7.6                                                                  | --                                                                          |



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## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| MAY 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1127 | 28.3                                            | 1028                                                               | 1028                                                              | 777                                                          | .30                                      | 4.5                                            | 7.3                                                                  | 4.25                                                                        |
| 26...    | 1128 | 28.3                                            | 1028                                                               | 1028                                                              | 778                                                          | .50                                      | 4.4                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1129 | 28.3                                            | 1028                                                               | 1028                                                              | 774                                                          | 1.0                                      | 4.4                                            | 7.3                                                                  | --                                                                          |
| 26...    | 1130 | 28.2                                            | 1028                                                               | 1028                                                              | 774                                                          | 1.5                                      | 4.4                                            | 7.2                                                                  | --                                                                          |
| 26...    | 1131 | 28.2                                            | 1028                                                               | 1028                                                              | 773                                                          | 2.0                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| 26...    | 1132 | 28.2                                            | 1028                                                               | 1028                                                              | 781                                                          | 2.5                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| 26...    | 1133 | 28.2                                            | 1028                                                               | 1028                                                              | 773                                                          | 3.0                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| 26...    | 1134 | 28.2                                            | 1028                                                               | 1028                                                              | 778                                                          | 3.5                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| 26...    | 1135 | 28.2                                            | 1028                                                               | 1028                                                              | 783                                                          | 4.0                                      | 4.3                                            | 7.2                                                                  | --                                                                          |
| JUN      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1110 | 28.5                                            | 1028                                                               | 1028                                                              | 428                                                          | .30                                      | 5.3                                            | 7.2                                                                  | 3.35                                                                        |
| 23...    | 1111 | 28.4                                            | 1028                                                               | 1028                                                              | 428                                                          | .50                                      | 5.2                                            | 7.2                                                                  | --                                                                          |
| 23...    | 1112 | 27.4                                            | 1028                                                               | 1028                                                              | 430                                                          | 1.0                                      | 5.2                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1113 | 27.3                                            | 1028                                                               | 1028                                                              | 430                                                          | 1.5                                      | 5.1                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1114 | 27.0                                            | 1028                                                               | 1028                                                              | 431                                                          | 2.0                                      | 5.1                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1115 | 26.9                                            | 1028                                                               | 1028                                                              | 431                                                          | 2.5                                      | 5.0                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1116 | 26.9                                            | 1028                                                               | 1028                                                              | 431                                                          | 3.0                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1117 | 26.8                                            | 1028                                                               | 1028                                                              | 430                                                          | 3.2                                      | 5.0                                            | 7.0                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1120 | 31.2                                            | 1028                                                               | 1028                                                              | 326                                                          | .30                                      | 4.9                                            | 7.8                                                                  | 4.05                                                                        |
| 28...    | 1121 | 30.6                                            | 1028                                                               | 1028                                                              | 324                                                          | .50                                      | 4.9                                            | 7.7                                                                  | --                                                                          |
| 28...    | 1122 | 30.4                                            | 1028                                                               | 1028                                                              | 331                                                          | 1.0                                      | 4.9                                            | 7.7                                                                  | --                                                                          |
| 28...    | 1123 | 30.4                                            | 1028                                                               | 1028                                                              | 306                                                          | 1.5                                      | 4.9                                            | 7.6                                                                  | --                                                                          |
| 28...    | 1124 | 30.4                                            | 1028                                                               | 1028                                                              | 317                                                          | 2.0                                      | 4.8                                            | 7.6                                                                  | --                                                                          |
| 28...    | 1125 | 30.3                                            | 1028                                                               | 1028                                                              | 323                                                          | 2.5                                      | 4.9                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1126 | 30.3                                            | 1028                                                               | 1028                                                              | 331                                                          | 3.0                                      | 4.8                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1127 | 30.3                                            | 1028                                                               | 1028                                                              | 316                                                          | 3.5                                      | 4.8                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1128 | 30.3                                            | 1028                                                               | 1028                                                              | 320                                                          | 3.9                                      | 4.8                                            | 7.4                                                                  | --                                                                          |

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## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| AUG 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1102 | 28.2                                            | 1028                                                               | 1028                                                              | 279                                                          | .30                                      | 5.6                                            | 7.0                                                                  | 3.65                                                                        |
| 24...    | 1103 | 27.7                                            | 1028                                                               | 1028                                                              | 280                                                          | .50                                      | 5.6                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1104 | 27.3                                            | 1028                                                               | 1028                                                              | 282                                                          | 1.0                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1105 | 27.1                                            | 1028                                                               | 1028                                                              | 282                                                          | 1.5                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1106 | 27.1                                            | 1028                                                               | 1028                                                              | 282                                                          | 2.0                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1107 | 27.1                                            | 1028                                                               | 1028                                                              | 281                                                          | 2.5                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1108 | 27.1                                            | 1028                                                               | 1028                                                              | 281                                                          | 3.0                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1109 | 27.1                                            | 1028                                                               | 1028                                                              | 281                                                          | 3.5                                      | 5.4                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1135 | 25.7                                            | 1028                                                               | 1028                                                              | 279                                                          | .30                                      | 5.7                                            | 7.1                                                                  | 3.55                                                                        |
| 24...    | 1136 | 25.6                                            | 1028                                                               | 1028                                                              | 282                                                          | .50                                      | 5.7                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1137 | 25.6                                            | 1028                                                               | 1028                                                              | 279                                                          | 1.0                                      | 5.6                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1138 | 25.6                                            | 1028                                                               | 1028                                                              | 278                                                          | 1.5                                      | 5.6                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1139 | 25.6                                            | 1028                                                               | 1028                                                              | 279                                                          | 2.0                                      | 5.6                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1140 | 25.5                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.5                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1141 | 25.6                                            | 1028                                                               | 1028                                                              | 279                                                          | 3.0                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| OCT      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1228 | 26.1                                            | 1028                                                               | 1028                                                              | 246                                                          | .30                                      | 5.8                                            | 7.0                                                                  | 4.15                                                                        |
| 20...    | 1229 | 25.9                                            | 1028                                                               | 1028                                                              | 257                                                          | .50                                      | 5.7                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1230 | 25.6                                            | 1028                                                               | 1028                                                              | 252                                                          | 1.0                                      | 5.7                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1231 | 25.6                                            | 1028                                                               | 1028                                                              | 255                                                          | 1.5                                      | 5.6                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1232 | 25.6                                            | 1028                                                               | 1028                                                              | 260                                                          | 2.0                                      | 5.6                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1233 | 25.5                                            | 1028                                                               | 1028                                                              | 255                                                          | 2.5                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1234 | 25.5                                            | 1028                                                               | 1028                                                              | 251                                                          | 3.0                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1235 | 25.5                                            | 1028                                                               | 1028                                                              | 238                                                          | 3.5                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1236 | 25.5                                            | 1028                                                               | 1028                                                              | 260                                                          | 4.0                                      | 5.5                                            | 7.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1250 | 21.5                                            | 1028                                                               | 1028                                                              | 347                                                          | .30                                      | 7.0                                            | 7.4                                                                  | 2.95                                                                        |
| 17...    | 1251 | 21.4                                            | 1028                                                               | 1028                                                              | 350                                                          | .50                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1252 | 21.1                                            | 1028                                                               | 1028                                                              | 358                                                          | 1.0                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1253 | 21.1                                            | 1028                                                               | 1028                                                              | 353                                                          | 1.5                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1254 | 21.1                                            | 1028                                                               | 1028                                                              | 359                                                          | 2.0                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1255 | 21.0                                            | 1028                                                               | 1028                                                              | 353                                                          | 2.5                                      | 6.9                                            | 7.4                                                                  | --                                                                          |
| 17...    | 1256 | 21.1                                            | 1028                                                               | 1028                                                              | 357                                                          | 2.8                                      | 6.9                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270451081595100 - PEACE R. AT RIVER MILE 18.25 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| DEC 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1321 | 20.0                                            | 1028                                                               | 1028                                                              | 472                                                          | .30                                      | 7.4                                            | 7.6                                                                  | 4.25                                                                        |
| 21...    | 1322 | 19.9                                            | 1028                                                               | 1028                                                              | 475                                                          | .50                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1323 | 19.8                                            | 1028                                                               | 1028                                                              | 471                                                          | 1.0                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1324 | 19.7                                            | 1028                                                               | 1028                                                              | 475                                                          | 1.5                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1325 | 19.6                                            | 1028                                                               | 1028                                                              | 473                                                          | 2.0                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1326 | 19.5                                            | 1028                                                               | 1028                                                              | 474                                                          | 2.5                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1327 | 19.5                                            | 1028                                                               | 1028                                                              | 467                                                          | 3.0                                      | 7.3                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1328 | 19.5                                            | 1028                                                               | 1028                                                              | 474                                                          | 3.5                                      | 7.2                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1329 | 19.5                                            | 1028                                                               | 1028                                                              | 466                                                          | 4.0                                      | 7.2                                            | 7.6                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1998 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1321 | 24.1                                            | 1028                                                               | 1028                                                              | 283                                                          | .30                                      | 6.2                                            | 7.3                                                                  | 2.95                                                                        |
| 29...    | 1322 | 24.0                                            | 1028                                                               | 1028                                                              | 283                                                          | .50                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1323 | 24.0                                            | 1028                                                               | 1028                                                              | 283                                                          | 1.0                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1324 | 24.0                                            | 1028                                                               | 1028                                                              | 287                                                          | 1.5                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1325 | 24.0                                            | 1028                                                               | 1028                                                              | 282                                                          | 2.0                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1326 | 24.0                                            | 1028                                                               | 1028                                                              | 287                                                          | 2.5                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| 29...    | 1327 | 24.0                                            | 1028                                                               | 1028                                                              | 281                                                          | 2.8                                      | 6.3                                            | 7.3                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 18...    | 1330 | 24.1                                            | 1028                                                               | 1028                                                              | 326                                                          | .30                                      | 6.7                                            | 7.3                                                                  | 4.05                                                                        |
| 18...    | 1331 | 24.1                                            | 1028                                                               | 1028                                                              | 327                                                          | .50                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1332 | 24.0                                            | 1028                                                               | 1028                                                              | 326                                                          | 1.0                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1333 | 24.0                                            | 1028                                                               | 1028                                                              | 328                                                          | 1.5                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1334 | 24.0                                            | 1028                                                               | 1028                                                              | 326                                                          | 2.0                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1335 | 24.0                                            | 1028                                                               | 1028                                                              | 328                                                          | 2.5                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1336 | 24.0                                            | 1028                                                               | 1028                                                              | 331                                                          | 3.0                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1337 | 24.0                                            | 1028                                                               | 1028                                                              | 331                                                          | 3.5                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| 18...    | 1338 | 24.0                                            | 1028                                                               | 1028                                                              | 330                                                          | 3.9                                      | 6.6                                            | 7.3                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 29...    | 1313 | 21.4                                            | 1028                                                               | 1028                                                              | 503                                                          | .30                                      | 8.3                                            | 8.0                                                                  | 3.05                                                                        |
| 29...    | 1314 | 21.4                                            | 1028                                                               | 1028                                                              | 503                                                          | .50                                      | 8.3                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1315 | 21.4                                            | 1028                                                               | 1028                                                              | 502                                                          | 1.0                                      | 8.2                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1316 | 21.3                                            | 1028                                                               | 1028                                                              | 503                                                          | 1.5                                      | 8.2                                            | 8.0                                                                  | --                                                                          |
| 29...    | 1317 | 21.2                                            | 1028                                                               | 1028                                                              | 503                                                          | 2.0                                      | 8.1                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1318 | 21.2                                            | 1028                                                               | 1028                                                              | 503                                                          | 2.5                                      | 8.1                                            | 7.9                                                                  | --                                                                          |
| 29...    | 1319 | 21.2                                            | 1028                                                               | 1028                                                              | 503                                                          | 2.9                                      | 8.1                                            | 7.9                                                                  | --                                                                          |
| JAN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1410 | 20.4                                            | 1028                                                               | 1028                                                              | 364                                                          | .30                                      | 7.0                                            | 7.4                                                                  | 2.35                                                                        |
| 26...    | 1411 | 20.3                                            | 1028                                                               | 1028                                                              | 364                                                          | .50                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1412 | 20.3                                            | 1028                                                               | 1028                                                              | 362                                                          | 1.0                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1413 | 20.3                                            | 1028                                                               | 1028                                                              | 364                                                          | 1.5                                      | 7.0                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1414 | 20.3                                            | 1028                                                               | 1028                                                              | 364                                                          | 2.0                                      | 7.0                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| FEB 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1357 | 18.5                                            | 1028                                                               | 1028                                                              | 438                                                          | .30                                      | 8.4                                            | 7.8                                                                  | 3.55                                                                        |
| 23...    | 1358 | 18.3                                            | 1028                                                               | 1028                                                              | 441                                                          | .50                                      | 8.3                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1359 | 17.2                                            | 1028                                                               | 1028                                                              | 442                                                          | 1.0                                      | 8.3                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1400 | 17.1                                            | 1028                                                               | 1028                                                              | 445                                                          | 1.5                                      | 8.2                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1401 | 17.1                                            | 1028                                                               | 1028                                                              | 438                                                          | 2.0                                      | 8.2                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1402 | 17.0                                            | 1028                                                               | 1028                                                              | 437                                                          | 2.5                                      | 8.2                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1403 | 17.0                                            | 1028                                                               | 1028                                                              | 441                                                          | 3.0                                      | 8.1                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1404 | 17.0                                            | 1028                                                               | 1028                                                              | 445                                                          | 3.4                                      | 8.1                                            | 7.8                                                                  | --                                                                          |
| MAR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1309 | 23.6                                            | 1028                                                               | 1028                                                              | 569                                                          | .30                                      | 8.0                                            | 7.9                                                                  | 4.15                                                                        |
| 23...    | 1310 | 23.5                                            | 1028                                                               | 1028                                                              | 569                                                          | .50                                      | 8.0                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1311 | 23.2                                            | 1028                                                               | 1028                                                              | 571                                                          | 1.0                                      | 8.0                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1312 | 23.1                                            | 1028                                                               | 1028                                                              | 568                                                          | 1.5                                      | 8.0                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1313 | 22.7                                            | 1028                                                               | 1028                                                              | 570                                                          | 2.0                                      | 7.9                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1314 | 22.5                                            | 1028                                                               | 1028                                                              | 571                                                          | 2.5                                      | 7.8                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1315 | 22.4                                            | 1028                                                               | 1028                                                              | 575                                                          | 3.0                                      | 7.6                                            | 7.9                                                                  | --                                                                          |
| 23...    | 1316 | 22.3                                            | 1028                                                               | 1028                                                              | 565                                                          | 3.5                                      | 7.5                                            | 7.8                                                                  | --                                                                          |
| 23...    | 1317 | 22.2                                            | 1028                                                               | 1028                                                              | 566                                                          | 4.0                                      | 7.5                                            | 7.8                                                                  | --                                                                          |
| APR      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1150 | 24.4                                            | 1028                                                               | 1028                                                              | 749                                                          | .30                                      | 7.8                                            | 7.9                                                                  | 2.45                                                                        |
| 20...    | 1151 | 24.4                                            | 1028                                                               | 1028                                                              | 749                                                          | .50                                      | 7.6                                            | 7.9                                                                  | --                                                                          |
| 20...    | 1152 | 23.8                                            | 1028                                                               | 1028                                                              | 769                                                          | 1.0                                      | 7.0                                            | 7.9                                                                  | --                                                                          |
| 20...    | 1153 | 23.2                                            | 1028                                                               | 1028                                                              | 763                                                          | 1.5                                      | 6.9                                            | 7.8                                                                  | --                                                                          |
| 20...    | 1154 | 23.1                                            | 1028                                                               | 1028                                                              | 760                                                          | 2.0                                      | 6.6                                            | 7.8                                                                  | --                                                                          |
| 20...    | 1155 | 23.1                                            | 1028                                                               | 1028                                                              | 758                                                          | 2.3                                      | 6.6                                            | 7.8                                                                  | --                                                                          |
| MAY      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 26...    | 1140 | 28.2                                            | 1028                                                               | 1028                                                              | 760                                                          | .30                                      | 5.9                                            | 7.4                                                                  | 3.25                                                                        |
| 26...    | 1141 | 27.7                                            | 1028                                                               | 1028                                                              | 766                                                          | .50                                      | 5.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1142 | 27.6                                            | 1028                                                               | 1028                                                              | 765                                                          | 1.0                                      | 5.7                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1143 | 27.5                                            | 1028                                                               | 1028                                                              | 767                                                          | 1.5                                      | 5.6                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1144 | 27.5                                            | 1028                                                               | 1028                                                              | 767                                                          | 2.0                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1145 | 27.5                                            | 1028                                                               | 1028                                                              | 766                                                          | 2.5                                      | 5.5                                            | 7.4                                                                  | --                                                                          |
| 26...    | 1146 | 27.4                                            | 1028                                                               | 1028                                                              | 765                                                          | 3.0                                      | 5.5                                            | 7.4                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| JUN 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 23...    | 1124 | 27.7                                            | 1028                                                               | 1028                                                              | 416                                                          | .30                                      | 5.3                                            | 7.1                                                                  | 4.15                                                                        |
| 23...    | 1125 | 27.6                                            | 1028                                                               | 1028                                                              | 418                                                          | .50                                      | 5.2                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1126 | 27.5                                            | 1028                                                               | 1028                                                              | 416                                                          | 1.0                                      | 5.2                                            | 7.1                                                                  | --                                                                          |
| 23...    | 1127 | 27.6                                            | 1028                                                               | 1028                                                              | 418                                                          | 1.5                                      | 5.2                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1128 | 27.5                                            | 1028                                                               | 1028                                                              | 417                                                          | 2.0                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1129 | 27.5                                            | 1028                                                               | 1028                                                              | 418                                                          | 2.5                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1130 | 27.5                                            | 1028                                                               | 1028                                                              | 420                                                          | 3.0                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1131 | 27.6                                            | 1028                                                               | 1028                                                              | 417                                                          | 3.5                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| 23...    | 1132 | 27.5                                            | 1028                                                               | 1028                                                              | 416                                                          | 4.0                                      | 5.1                                            | 7.0                                                                  | --                                                                          |
| JUL      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 28...    | 1133 | 30.7                                            | 1028                                                               | 1028                                                              | 325                                                          | .30                                      | 5.4                                            | 7.8                                                                  | 4.05                                                                        |
| 28...    | 1134 | 30.5                                            | 1028                                                               | 1028                                                              | 324                                                          | .50                                      | 5.4                                            | 7.7                                                                  | --                                                                          |
| 28...    | 1135 | 30.4                                            | 1028                                                               | 1028                                                              | 313                                                          | 1.0                                      | 5.3                                            | 7.6                                                                  | --                                                                          |
| 28...    | 1136 | 30.3                                            | 1028                                                               | 1028                                                              | 330                                                          | 1.5                                      | 5.3                                            | 7.5                                                                  | --                                                                          |
| 28...    | 1137 | 30.3                                            | 1028                                                               | 1028                                                              | 327                                                          | 2.0                                      | 5.2                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1138 | 30.3                                            | 1028                                                               | 1028                                                              | 312                                                          | 2.5                                      | 5.2                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1139 | 30.3                                            | 1028                                                               | 1028                                                              | 316                                                          | 3.0                                      | 5.2                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1140 | 30.3                                            | 1028                                                               | 1028                                                              | 326                                                          | 3.5                                      | 5.2                                            | 7.4                                                                  | --                                                                          |
| 28...    | 1141 | 30.3                                            | 1028                                                               | 1028                                                              | 324                                                          | 3.9                                      | 5.2                                            | 7.3                                                                  | --                                                                          |
| AUG      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1123 | 27.6                                            | 1028                                                               | 1028                                                              | 272                                                          | .30                                      | 5.8                                            | 7.0                                                                  | 2.65                                                                        |
| 24...    | 1124 | 27.5                                            | 1028                                                               | 1028                                                              | 266                                                          | .50                                      | 5.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1125 | 27.5                                            | 1028                                                               | 1028                                                              | 275                                                          | 1.0                                      | 5.8                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1126 | 27.5                                            | 1028                                                               | 1028                                                              | 269                                                          | 1.5                                      | 5.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1127 | 27.5                                            | 1028                                                               | 1028                                                              | 270                                                          | 2.0                                      | 5.7                                            | 7.0                                                                  | --                                                                          |
| 24...    | 1128 | 27.5                                            | 1028                                                               | 1028                                                              | 268                                                          | 2.5                                      | 5.7                                            | 7.0                                                                  | --                                                                          |
| SEP      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 24...    | 1151 | 25.7                                            | 1028                                                               | 1028                                                              | 278                                                          | .30                                      | 5.9                                            | 7.1                                                                  | 3.15                                                                        |
| 24...    | 1152 | 25.7                                            | 1028                                                               | 1028                                                              | 276                                                          | .50                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1153 | 25.7                                            | 1028                                                               | 1028                                                              | 274                                                          | 1.0                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1154 | 25.7                                            | 1028                                                               | 1028                                                              | 279                                                          | 1.5                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1155 | 25.7                                            | 1028                                                               | 1028                                                              | 278                                                          | 2.0                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1156 | 25.7                                            | 1028                                                               | 1028                                                              | 277                                                          | 2.5                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 24...    | 1157 | 25.7                                            | 1028                                                               | 1028                                                              | 277                                                          | 3.0                                      | 5.8                                            | 7.1                                                                  | --                                                                          |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>WATER<br>WHOLE<br>FIELD<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) |
|----------|------|-------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| OCT 1999 |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 20...    | 1244 | 25.9                                            | 1028                                                               | 1028                                                              | 258                                                          | .30                                      | 6.0                                            | 7.1                                                                  | 2.65                                                                        |
| 20...    | 1245 | 25.9                                            | 1028                                                               | 1028                                                              | 243                                                          | .50                                      | 5.9                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1246 | 25.8                                            | 1028                                                               | 1028                                                              | 252                                                          | 1.0                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1247 | 25.8                                            | 1028                                                               | 1028                                                              | 252                                                          | 1.5                                      | 5.8                                            | 7.1                                                                  | --                                                                          |
| 20...    | 1248 | 25.8                                            | 1028                                                               | 1028                                                              | 261                                                          | 2.0                                      | 5.8                                            | 7.0                                                                  | --                                                                          |
| 20...    | 1249 | 25.8                                            | 1028                                                               | 1028                                                              | 260                                                          | 2.5                                      | 5.8                                            | 7.0                                                                  | --                                                                          |
| NOV      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 17...    | 1311 | 20.5                                            | 1028                                                               | 1028                                                              | 359                                                          | .30                                      | 7.5                                            | 7.5                                                                  | 2.65                                                                        |
| 17...    | 1312 | 20.5                                            | 1028                                                               | 1028                                                              | 359                                                          | .50                                      | 7.4                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1313 | 20.5                                            | 1028                                                               | 1028                                                              | 359                                                          | 1.0                                      | 7.4                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1314 | 20.5                                            | 1028                                                               | 1028                                                              | 359                                                          | 1.5                                      | 7.4                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1315 | 20.5                                            | 1028                                                               | 1028                                                              | 360                                                          | 2.0                                      | 7.3                                            | 7.5                                                                  | --                                                                          |
| 17...    | 1316 | 20.5                                            | 1028                                                               | 1028                                                              | 359                                                          | 2.5                                      | 7.3                                            | 7.5                                                                  | --                                                                          |
| DEC      |      |                                                 |                                                                    |                                                                   |                                                              |                                          |                                                |                                                                      |                                                                             |
| 21...    | 1344 | 20.1                                            | 1028                                                               | 1028                                                              | 459                                                          | .30                                      | 7.8                                            | 7.6                                                                  | 2.75                                                                        |
| 21...    | 1345 | 20.0                                            | 1028                                                               | 1028                                                              | 463                                                          | .50                                      | 7.8                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1346 | 19.9                                            | 1028                                                               | 1028                                                              | 471                                                          | 1.0                                      | 7.8                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1347 | 19.9                                            | 1028                                                               | 1028                                                              | 467                                                          | 1.5                                      | 7.7                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1348 | 19.8                                            | 1028                                                               | 1028                                                              | 469                                                          | 2.0                                      | 7.7                                            | 7.6                                                                  | --                                                                          |
| 21...    | 1349 | 19.8                                            | 1028                                                               | 1028                                                              | 472                                                          | 2.5                                      | 7.7                                            | 7.6                                                                  | --                                                                          |



**Back to Start**

# **APPENDIX F**

**Summary of In Situ Physical Water  
Chemistry Fixed Station Water Column Data  
Collected by USGS**





**Back to Start**

# **APPENDIX G**

**Summary of Surface Water Chemistry Data  
Collected at Fixed Stations by USGS**

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID -<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT -<br>INUM -<br>COBALT<br>UNITS)<br>(00080) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS -<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA -<br>TILE,<br>SUS -<br>PENDE<br>(MG/L)<br>(00535) | NITRO -<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| OCT 1998 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 28...    | 9              | 1620 | 1028                                                                | 81213                                                              | 7.6                                      | 200                                                       | .30                                       | 13                                                                           | 7                                                                 | .04                                                              |
| 28...    | 9              | 1640 | 1028                                                                | 81213                                                              | 7.9                                      | 200                                                       | 1.6                                       | 15                                                                           | 8                                                                 | .04                                                              |
| 28...    | R              | 1641 | 1028                                                                | 81213                                                              | 11                                       | 200                                                       | 1.6                                       | 15                                                                           | 8                                                                 | .03                                                              |
| NOV      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 17...    | Q              | 1510 | 1028                                                                | 81213                                                              | .23                                      | 5                                                         | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 17...    | 9              | 1535 | 1028                                                                | 81213                                                              | 2.0                                      | 160                                                       | .30                                       | 5                                                                            | 2                                                                 | .05                                                              |
| 17...    | 9              | 1555 | 1028                                                                | 81213                                                              | 2.0                                      | 160                                                       | 2.5                                       | 5                                                                            | 2                                                                 | .05                                                              |
| 17...    | R              | 1556 | 1028                                                                | 81213                                                              | 2.3                                      | 160                                                       | 2.5                                       | 4                                                                            | 1                                                                 | .05                                                              |
| DEC      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 28...    | Q              | 1640 | 1028                                                                | 81213                                                              | .08                                      | 5                                                         | --                                        | <1                                                                           | <1                                                                | .02                                                              |
| 28...    | 9              | 1645 | 1028                                                                | 81213                                                              | 2.2                                      | 60                                                        | .30                                       | 5                                                                            | 3                                                                 | .05                                                              |
| 28...    | R              | 1646 | 1028                                                                | 81213                                                              | 1.9                                      | 60                                                        | .30                                       | 2                                                                            | 1                                                                 | .05                                                              |
| 28...    | 9              | 1710 | 1028                                                                | 81213                                                              | 1.9                                      | 60                                                        | 1.6                                       | 2                                                                            | 1                                                                 | .06                                                              |
| JAN 1999 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 25...    | 9              | 1650 | 1028                                                                | 81213                                                              | 1.4                                      | 80                                                        | .30                                       | 5                                                                            | 2                                                                 | .06                                                              |
| 25...    | 9              | 1715 | 1028                                                                | 81213                                                              | 1.5                                      | 100                                                       | 1.4                                       | 6                                                                            | 2                                                                 | .06                                                              |
| FEB      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | 9              | 1720 | 1028                                                                | 81213                                                              | 2.0                                      | 100                                                       | .30                                       | 2                                                                            | 1                                                                 | .04                                                              |
| 22...    | 9              | 1730 | 1028                                                                | 81213                                                              | 2.0                                      | 100                                                       | 1.4                                       | 4                                                                            | 3                                                                 | .04                                                              |
| MAR      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | Q              | 1637 | 1028                                                                | 81213                                                              | .08                                      | 5                                                         | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 22...    | 9              | 1645 | 1028                                                                | 81213                                                              | .38                                      | 40                                                        | 1.8                                       | 7                                                                            | 2                                                                 | .03                                                              |
| 22...    | 9              | 1700 | 1028                                                                | 81213                                                              | 1.5                                      | 40                                                        | .30                                       | 6                                                                            | 3                                                                 | .03                                                              |
| APR      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 19...    | 9              | 1510 | 1028                                                                | 81213                                                              | .45                                      | 40                                                        | .30                                       | 7                                                                            | 4                                                                 | .03                                                              |
| 19...    | 9              | 1525 | 1028                                                                | 81213                                                              | .46                                      | 40                                                        | 1.5                                       | 8                                                                            | 5                                                                 | .02                                                              |
| MAY      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 25...    | 9              | 1530 | 1028                                                                | 81213                                                              | .51                                      | 50                                                        | .30                                       | 5                                                                            | 4                                                                 | .06                                                              |
| 25...    | 9              | 1550 | 1028                                                                | 81213                                                              | .67                                      | 50                                                        | 2.2                                       | 7                                                                            | 4                                                                 | .07                                                              |
| 25...    | R              | 1610 | 1028                                                                | 81213                                                              | .63                                      | 50                                                        | 2.2                                       | 5                                                                            | 3                                                                 | .07                                                              |
| JUN      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | 9              | 1535 | 1028                                                                | 81213                                                              | .83                                      | 240                                                       | .30                                       | 6                                                                            | 3                                                                 | .09                                                              |
| 22...    | 9              | 1600 | 1028                                                                | 81213                                                              | .91                                      | 200                                                       | 1.8                                       | 6                                                                            | 3                                                                 | .09                                                              |
| 22...    | Q              | 1601 | 1028                                                                | 81213                                                              | .07                                      | 5                                                         | --                                        | <1                                                                           | <1                                                                | .02                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| OCT 1998 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | 1.0                                                                            | .48                                                             | 1.0                                                   | 20                                                       | 19                                                                | 19                                                               | 22                                                             | 7.9                                                          | .78                                                            |
| 28...    | <.01                                                            | 1.1                                                                            | .48                                                             | 1.0                                                   | 20                                                       | 18                                                                | 19                                                               | 22                                                             | 8.1                                                          | .79                                                            |
| 28...    | <.01                                                            | 1.1                                                                            | .49                                                             | 1.0                                                   | 20                                                       | 19                                                                | 18                                                               | 22                                                             | 8.0                                                          | .78                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 17...    | <.01                                                            | <.20                                                                           | <.02                                                            | .03                                                   | .5                                                       | .4                                                                | .5                                                               | <.1                                                            | .03                                                          | .01                                                            |
| 17...    | <.01                                                            | .69                                                                            | .58                                                             | .77                                                   | 13                                                       | 12                                                                | 12                                                               | 27                                                             | 7.7                                                          | .67                                                            |
| 17...    | <.01                                                            | 1.1                                                                            | .57                                                             | .81                                                   | 14                                                       | 13                                                                | 12                                                               | 27                                                             | 7.7                                                          | .67                                                            |
| 17...    | .01                                                             | .80                                                                            | .59                                                             | .79                                                   | 13                                                       | 12                                                                | 12                                                               | 27                                                             | 7.8                                                          | .68                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                               | .6                                                               | <.1                                                            | .04                                                          | <.01                                                           |
| 28...    | <.01                                                            | .57                                                                            | .69                                                             | .91                                                   | 9.6                                                      | 9.5                                                               | 23                                                               | 37                                                             | 4.6                                                          | .86                                                            |
| 28...    | <.01                                                            | .55                                                                            | .68                                                             | .91                                                   | 9.6                                                      | 9.4                                                               | 23                                                               | 37                                                             | 4.6                                                          | .85                                                            |
| 28...    | <.01                                                            | .54                                                                            | .70                                                             | .91                                                   | 10                                                       | 5.0                                                               | 23                                                               | 38                                                             | 4.6                                                          | .86                                                            |
| JAN 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | .63                                                                            | .67                                                             | .73                                                   | 14                                                       | 12                                                                | 15                                                               | 32                                                             | 4.3                                                          | .62                                                            |
| 25...    | <.01                                                            | .73                                                                            | .67                                                             | .72                                                   | 14                                                       | 12                                                                | 16                                                               | 33                                                             | 4.3                                                          | .63                                                            |
| FEB      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .75                                                                            | .68                                                             | .74                                                   | 14                                                       | 13                                                                | 18                                                               | 36                                                             | 5.8                                                          | .67                                                            |
| 22...    | <.01                                                            | .71                                                                            | .68                                                             | .75                                                   | 13                                                       | 13                                                                | 18                                                               | 36                                                             | 5.9                                                          | .68                                                            |
| MAR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                               | .5                                                               | <.1                                                            | .01                                                          | <.01                                                           |
| 22...    | <.01                                                            | .48                                                                            | .42                                                             | .74                                                   | 9.3                                                      | 8.8                                                               | 20                                                               | 52                                                             | 1.3                                                          | .61                                                            |
| 22...    | <.01                                                            | .51                                                                            | .42                                                             | .69                                                   | 9.5                                                      | 8.9                                                               | 20                                                               | 52                                                             | 1.3                                                          | .62                                                            |
| APR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 19...    | <.01                                                            | .64                                                                            | .08                                                             | .89                                                   | 10                                                       | 10                                                                | 24                                                               | 190                                                            | 2.2                                                          | .86                                                            |
| 19...    | <.01                                                            | .69                                                                            | .08                                                             | .91                                                   | 11                                                       | 10                                                                | 25                                                               | 200                                                            | 2.2                                                          | .86                                                            |
| MAY      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | .01                                                             | .77                                                                            | .61                                                             | .65                                                   | 12                                                       | 10                                                                | 19                                                               | 97                                                             | 2.8                                                          | .62                                                            |
| 25...    | .02                                                             | .73                                                                            | .69                                                             | .63                                                   | 13                                                       | 11                                                                | 19                                                               | 96                                                             | 3.1                                                          | .59                                                            |
| 25...    | .02                                                             | .79                                                                            | .70                                                             | .62                                                   | 13                                                       | 12                                                                | 18                                                               | 97                                                             | 3.1                                                          | .59                                                            |
| JUN      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | .04                                                             | 1.2                                                                            | 1.2                                                             | .59                                                   | 21                                                       | 20                                                                | 10                                                               | 50                                                             | 7.3                                                          | .58                                                            |
| 22...    | .04                                                             | 1.2                                                                            | 1.2                                                             | .64                                                   | 22                                                       | 20                                                                | 11                                                               | 50                                                             | 7.3                                                          | .58                                                            |
| 22...    | <.01                                                            | <.20                                                                           | <.02                                                            | .03                                                   | <.1                                                      | <.1                                                               | .6                                                               | <.1                                                            | .04                                                          | .01                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

| WATER-QUALITY DATA |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
|--------------------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| DATE               | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>PLICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
| OCT 1998           |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 28...              | 1.95                                                                        | 125                                  | 282                                                                 | 56                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 997                                       | 98306.0                                                           |
| 28...              | 1.95                                                                        | 125                                  | 282                                                                 | 56                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 996                                       | 98306.0                                                           |
| 28...              | 1.95                                                                        | 125                                  | 280                                                                 | 56                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                        | 994                                       | 98306.0                                                           |
| NOV                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 17...              | --                                                                          | 125                                  | 2.2                                                                 | 3.8                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 1679                                      | 98324.0                                                           |
| 17...              | 2.75                                                                        | 125                                  | 322                                                                 | 55                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 1677                                      | 98324.0                                                           |
| 17...              | 2.75                                                                        | 125                                  | 323                                                                 | 55                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 1678                                      | 98324.0                                                           |
| 17...              | 2.75                                                                        | 125                                  | 322                                                                 | 55                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                        | 1680                                      | 98324.0                                                           |
| DEC                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 28...              | --                                                                          | 125                                  | 3.0                                                                 | 3.2                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 2848                                      | 98365.0                                                           |
| 28...              | 1.95                                                                        | 125                                  | 484                                                                 | 93                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 2846                                      | 98365.0                                                           |
| 28...              | 1.95                                                                        | 125                                  | 484                                                                 | 94                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                        | 2847                                      | 98365.0                                                           |
| 28...              | 1.95                                                                        | 125                                  | 486                                                                 | 94                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 2845                                      | 98365.0                                                           |
| JAN 1999           |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 25...              | 1.65                                                                        | 125                                  | 443                                                                 | 67                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 3415                                      | 99027.0                                                           |
| 25...              | 1.65                                                                        | 125                                  | 441                                                                 | 67                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 3416                                      | 99027.0                                                           |
| FEB                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 22...              | 1.65                                                                        | 125                                  | 426                                                                 | 78                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 4120.00                                   | 99055.0                                                           |
| 22...              | 1.65                                                                        | 125                                  | 424                                                                 | 78                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 4121.00                                   | 99055.0                                                           |
| MAR                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 22...              | --                                                                          | 125                                  | 2.4                                                                 | 2.8                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 4989.00                                   | 99088.0                                                           |
| 22...              | 2.05                                                                        | 125                                  | 570                                                                 | 87                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 4987.00                                   | 99084.0                                                           |
| 22...              | 2.05                                                                        | 125                                  | 568                                                                 | 87                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 4986.00                                   | 99084.0                                                           |
| APR                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 19...              | 1.85                                                                        | 125                                  | 1100                                                                | 98                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 5870.00                                   | 99112.0                                                           |
| 19...              | 1.85                                                                        | 125                                  | 1120                                                                | 98                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 5871.00                                   | 99112.0                                                           |
| MAY                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 25...              | 2.55                                                                        | 125                                  | 738                                                                 | 72                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 6963.00                                   | 99148.0                                                           |
| 25...              | 2.55                                                                        | 125                                  | 731                                                                 | 71                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 6964.00                                   | 99148.0                                                           |
| 25...              | 2.55                                                                        | 125                                  | 708                                                                 | 68                                                                   | --                                                         | --                                                           | --                                                  | 20.00                                        | 6965.00                                   | 99148.0                                                           |
| JUN                |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 22...              | 2.05                                                                        | 125                                  | 450                                                                 | 43                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 7848.00                                   | 99176.0                                                           |
| 22...              | 2.05                                                                        | 125                                  | 443                                                                 | 43                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 7849.00                                   | 99176.0                                                           |
| 22...              | --                                                                          | 125                                  | 1.4                                                                 | 3.5                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 7851.00                                   | 99176.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID -<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT -<br>INUM -<br>COBALT<br>UNITS)<br>(00080) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS -<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA -<br>TILE,<br>SUS -<br>PENDE<br>(MG/L)<br>(00535) | NITRO -<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| JUL 1999 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 27...    | Q              | 1519 | 1028                                                                | 81213                                                              | .13                                      | 5                                                         | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 27...    | 9              | 1520 | 1028                                                                | 81213                                                              | 2.0                                      | 280                                                       | .30                                       | <1                                                                           | <1                                                                | .06                                                              |
| 27...    | 9              | 1540 | 1028                                                                | 81213                                                              | 2.4                                      | 280                                                       | 2.3                                       | 4                                                                            | 2                                                                 | .07                                                              |
| 27...    | R              | 1541 | 1028                                                                | 81213                                                              | 2.9                                      | 280                                                       | 2.3                                       | 2                                                                            | <1                                                                | .07                                                              |
| AUG      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | 9              | 1510 | 1028                                                                | 81213                                                              | 3.8                                      | 240                                                       | .30                                       | 7                                                                            | 4                                                                 | .03                                                              |
| 23...    | 9              | 1535 | 1028                                                                | 81213                                                              | 6.2                                      | 240                                                       | 2.8                                       | 10                                                                           | 4                                                                 | .04                                                              |
| SEP      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | Q              | 1440 | 1028                                                                | 81213                                                              | .07                                      | <5                                                        | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 23...    | 9              | 1500 | 1028                                                                | 81213                                                              | 5.1                                      | 240                                                       | .30                                       | 4                                                                            | <1                                                                | .05                                                              |
| 23...    | 9              | 1520 | 1028                                                                | 81213                                                              | 3.7                                      | 240                                                       | 2.0                                       | 6                                                                            | 3                                                                 | .04                                                              |
| OCT      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 19...    | 9              | 1530 | 1028                                                                | 81213                                                              | 5.0                                      | 280                                                       | .30                                       | 7                                                                            | 5                                                                 | .05                                                              |
| 19...    | R              | 1531 | 1028                                                                | 81213                                                              | 4.6                                      | 280                                                       | .30                                       | 8                                                                            | 5                                                                 | .05                                                              |
| 19...    | 9              | 1555 | 1028                                                                | 81213                                                              | 4.4                                      | 280                                                       | 1.8                                       | 7                                                                            | 4                                                                 | .05                                                              |
| NOV      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 16...    | Q              | 1500 | 1028                                                                | 81213                                                              | .10                                      | <5                                                        | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 16...    | 9              | 1520 | 1028                                                                | 81213                                                              | 3.9                                      | 160                                                       | .30                                       | 7                                                                            | 4                                                                 | .05                                                              |
| 16...    | 9              | 1535 | 1028                                                                | 81213                                                              | 4.2                                      | 160                                                       | 2.2                                       | 9                                                                            | 5                                                                 | .05                                                              |
| DEC      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 20...    | Q              | 1455 | 1028                                                                | 81213                                                              | .12                                      | <5                                                        | --                                        | <1                                                                           | <1                                                                | <.01                                                             |
| 20...    | 9              | 1515 | 1028                                                                | 81213                                                              | 2.5                                      | 50                                                        | 3.0                                       | 1                                                                            | <1                                                                | .04                                                              |
| 20...    | 9              | 1530 | 1028                                                                | 81213                                                              | 1.8                                      | 50                                                        | .30                                       | <1                                                                           | <1                                                                | .05                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| JUL 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 27...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                                        | .7                                                               | <.1                                                                     | .08                                                          | <.01                                                           |
| 27...    | .01                                                             | 1.2                                                                            | .55                                                             | .60                                                   | 25                                                       | 24                                                                         | 11                                                               | 29                                                                      | 8.2                                                          | .59                                                            |
| 27...    | .01                                                             | 1.2                                                                            | .54                                                             | .64                                                   | 24                                                       | 23                                                                         | 14                                                               | 29                                                                      | 8.2                                                          | .60                                                            |
| 27...    | .01                                                             | 1.3                                                                            | .55                                                             | .62                                                   | 26                                                       | 23                                                                         | 12                                                               | 30                                                                      | 8.2                                                          | .59                                                            |
| AUG      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 23...    | .01                                                             | 1.3                                                                            | .52                                                             | .57                                                   | 27                                                       | 26                                                                         | 8.7                                                              | 29                                                                      | 7.5                                                          | .46                                                            |
| 23...    | .01                                                             | 1.6                                                                            | .51                                                             | .63                                                   | 26                                                       | 26                                                                         | 8.7                                                              | 29                                                                      | 7.4                                                          | .47                                                            |
| SEP      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 23...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | .9                                                       | .4                                                                         | .4                                                               | <.1                                                                     | <.01                                                         | <.01                                                           |
| 23...    | <.01                                                            | .86                                                                            | .50                                                             | .51                                                   | 26                                                       | 26                                                                         | 8.1                                                              | 25                                                                      | 7.1                                                          | .46                                                            |
| 23...    | <.01                                                            | 1.1                                                                            | .50                                                             | .53                                                   | 26                                                       | 26                                                                         | 8.0                                                              | 25                                                                      | 7.1                                                          | .46                                                            |
| OCT      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 19...    | .01                                                             | 1.4                                                                            | .35                                                             | .75                                                   | 29                                                       | 29                                                                         | 9.5                                                              | 21                                                                      | 9.0                                                          | .69                                                            |
| 19...    | <.01                                                            | 1.5                                                                            | .34                                                             | .77                                                   | 29                                                       | 28                                                                         | 9.5                                                              | 21                                                                      | 9.1                                                          | .66                                                            |
| 19...    | .01                                                             | 1.4                                                                            | .34                                                             | .75                                                   | 29                                                       | 28                                                                         | 9.5                                                              | 21                                                                      | 9.1                                                          | .68                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 16...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                                        | .3                                                               | <.1                                                                     | .09                                                          | .01                                                            |
| 16...    | .01                                                             | .78                                                                            | .66                                                             | .75                                                   | 19                                                       | 19                                                                         | 15                                                               | 31                                                                      | 8.9                                                          | .68                                                            |
| 16...    | .01                                                             | .88                                                                            | .64                                                             | .76                                                   | 20                                                       | 20                                                                         | 15                                                               | 31                                                                      | 9.0                                                          | .67                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 20...    | <.01                                                            | .62                                                                            | <.02                                                            | .04                                                   | <.1                                                      | <.1                                                                        | .6                                                               | <.1                                                                     | .06                                                          | .04                                                            |
| 20...    | <.01                                                            | .63                                                                            | .89                                                             | .62                                                   | 11                                                       | 11                                                                         | 21                                                               | 53                                                                      | 4.6                                                          | .65                                                            |
| 20...    | <.01                                                            | .54                                                                            | .87                                                             | .64                                                   | 11                                                       | 11                                                                         | 20                                                               | 52                                                                      | 4.7                                                          | .65                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297330 - PEACE RIVER AT FT. OGDEN FL

## WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>PLICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| JUL 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 27...    | --                                                                          | 125                                  | 2.3                                                                 | 4.2                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 8808.00                                   | 99215.0                                                           |
| 27...    | 2.65                                                                        | 125                                  | 306                                                                 | 50                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 8806.00                                   | 99215.0                                                           |
| 27...    | 2.65                                                                        | 125                                  | 307                                                                 | 50                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 8807.00                                   | 99215.0                                                           |
| 27...    | 2.65                                                                        | 125                                  | 297                                                                 | 50                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                        | 8809.00                                   | 99215.0                                                           |
| AUG      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 23...    | 3.15                                                                        | 125                                  | 297                                                                 | 47                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9884.00                                   | 99238.0                                                           |
| 23...    | 3.15                                                                        | 125                                  | 296                                                                 | 47                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9885.00                                   | 99238.0                                                           |
| SEP      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 23...    | --                                                                          | 125                                  | 1.5                                                                 | 3.1                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 9920300                                   | 99270.0                                                           |
| 23...    | 2.25                                                                        | 125                                  | 287                                                                 | 42                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9920300                                   | 99270.0                                                           |
| 23...    | 2.25                                                                        | 125                                  | 269                                                                 | 42                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9920300                                   | 99270.0                                                           |
| OCT      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 19...    | 2.05                                                                        | 125                                  | 246                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9921300                                   | 99296.0                                                           |
| 19...    | 2.05                                                                        | 125                                  | 247                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                        | 9921300                                   | 99296.0                                                           |
| 19...    | 2.05                                                                        | 125                                  | 246                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9921300                                   | 99296.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 16...    | --                                                                          | 125                                  | 3.7                                                                 | 3.4                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 9922100                                   | 99323.0                                                           |
| 16...    | 2.55                                                                        | 125                                  | 355                                                                 | 67                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9922100                                   | 99323.0                                                           |
| 16...    | 2.55                                                                        | 125                                  | 358                                                                 | 66                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9922100                                   | 99323.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                              |                                           |                                                                   |
| 20...    | --                                                                          | 125                                  | 1.3                                                                 | 4.7                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                           | 9923000                                   | 99356.0                                                           |
| 20...    | 3.35                                                                        | 125                                  | 560                                                                 | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9923000                                   | 99356.0                                                           |
| 20...    | 3.35                                                                        | 125                                  | 552                                                                 | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                           | 9923000                                   | 99356.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

| WATER-QUALITY DATA |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
|--------------------|----------------|------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| DATE               | MEDIUM<br>CODE | TIME | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA-<br>TILE,<br>SUS-<br>PENDE<br>(MG/L)<br>(00535) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
| OCT 1998           |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 28...              | Q              | 1310 | 1028                                                               | 81213                                                             | .07                                     | <5                                                      | --                                       | <1                                                                          | <1                                                              | <.01                                                            |
| 28...              | 9              | 1330 | 1028                                                               | 81213                                                             | 8.9                                     | 200                                                     | .30                                      | 19                                                                          | 9                                                               | .04                                                             |
| 28...              | 9              | 1345 | 1028                                                               | 81213                                                             | 20                                      | 200                                                     | 3.2                                      | 57                                                                          | 24                                                              | .05                                                             |
| NOV                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 17...              | 9              | 1300 | 1028                                                               | 81213                                                             | 4.0                                     | 200                                                     | .30                                      | 9                                                                           | 4                                                               | .04                                                             |
| 17...              | 9              | 1320 | 1028                                                               | 81213                                                             | 4.7                                     | 200                                                     | 3.7                                      | 12                                                                          | 3                                                               | .05                                                             |
| DEC                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 28...              | 9              | 1410 | 1028                                                               | 81213                                                             | 24                                      | 140                                                     | .30                                      | 100                                                                         | 91                                                              | 1.7                                                             |
| 28...              | 9              | 1430 | 1028                                                               | 81213                                                             | 1.1                                     | 50                                                      | 3.3                                      | 30                                                                          | 19                                                              | .20                                                             |
| JAN 1999           |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 25...              | 9              | 1340 | 1028                                                               | 81213                                                             | 1.4                                     | 70                                                      | .30                                      | 7                                                                           | 3                                                               | .04                                                             |
| 25...              | 9              | 1400 | 1028                                                               | 81213                                                             | .83                                     | 60                                                      | 2.7                                      | 14                                                                          | 6                                                               | .02                                                             |
| 25...              | R              | 1401 | 1028                                                               | 81213                                                             | .87                                     | 60                                                      | 2.7                                      | 12                                                                          | 6                                                               | .03                                                             |
| FEB                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...              | 9              | 1330 | 1028                                                               | 81213                                                             | 2.1                                     | 100                                                     | .30                                      | 10                                                                          | 4                                                               | .04                                                             |
| 22...              | Q              | 1335 | 1028                                                               | 81213                                                             | .06                                     | 5                                                       | --                                       | <1                                                                          | <1                                                              | <.01                                                            |
| 22...              | 9              | 1410 | 1028                                                               | 81213                                                             | 1.9                                     | 100                                                     | 3.0                                      | 12                                                                          | 5                                                               | .03                                                             |
| MAR                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...              | 9              | 1320 | 1028                                                               | 81213                                                             | 1.4                                     | 60                                                      | .30                                      | 14                                                                          | 6                                                               | .04                                                             |
| 22...              | 9              | 1350 | 1028                                                               | 81213                                                             | 1.1                                     | 40                                                      | 3.0                                      | 24                                                                          | 11                                                              | .10                                                             |
| 22...              | R              | 1410 | 1028                                                               | 81213                                                             | .52                                     | 50                                                      | 3.0                                      | 26                                                                          | 11                                                              | .10                                                             |
| APR                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 19...              | Q              | 1200 | 1028                                                               | 81213                                                             | <.05                                    | 5                                                       | --                                       | 1                                                                           | <1                                                              | .01                                                             |
| 19...              | 9              | 1210 | 1028                                                               | 81213                                                             | .33                                     | 40                                                      | .30                                      | 27                                                                          | 11                                                              | .09                                                             |
| 19...              | 9              | 1230 | 1028                                                               | 81213                                                             | .37                                     | 40                                                      | 3.2                                      | 31                                                                          | 13                                                              | .18                                                             |
| MAY                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 25...              | 9              | 1230 | 1028                                                               | 81213                                                             | .32                                     | 30                                                      | .30                                      | 33                                                                          | 15                                                              | .04                                                             |
| 25...              | 9              | 1245 | 1028                                                               | 81213                                                             | .28                                     | 40                                                      | 3.3                                      | 30                                                                          | 15                                                              | .04                                                             |
| JUN                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...              | 9              | 1215 | 1028                                                               | 81213                                                             | 1.3                                     | 160                                                     | .30                                      | 3                                                                           | 3                                                               | .13                                                             |
| 22...              | 9              | 1240 | 1028                                                               | 81213                                                             | .56                                     | 120                                                     | 3.5                                      | 18                                                                          | 10                                                              | .26                                                             |
| JUL                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 27...              | 9              | 1145 | 1028                                                               | 81213                                                             | 3.0                                     | 200                                                     | .30                                      | 5                                                                           | 3                                                               | .03                                                             |
| 27...              | 9              | 1215 | 1028                                                               | 81213                                                             | 2.5                                     | 240                                                     | 4.0                                      | 4                                                                           | 1                                                               | .03                                                             |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| OCT 1998 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | .2                                                       | .2                                                                | .7                                                               | <.1                                                            | <.01                                                         | <.01                                                           |
| 28...    | <.01                                                            | 1.2                                                                            | .30                                                             | .85                                                   | 18                                                       | 17                                                                | 20                                                               | 990                                                            | 5.9                                                          | .66                                                            |
| 28...    | <.01                                                            | 1.8                                                                            | .18                                                             | 1.1                                                   | 16                                                       | 16                                                                | 22                                                               | 2100                                                           | 4.8                                                          | .58                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 17...    | <.01                                                            | 1.2                                                                            | .41                                                             | .66                                                   | 13                                                       | 13                                                                | 11                                                               | 150                                                            | 6.7                                                          | .52                                                            |
| 17...    | <.01                                                            | 1.1                                                                            | .41                                                             | .71                                                   | 14                                                       | 13                                                                | 11                                                               | 290                                                            | 6.5                                                          | .53                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | .01                                                             | 7.4                                                                            | <.02                                                            | 1.3                                                   | 12                                                       | 9.7                                                               | 20                                                               | 4500                                                           | 5.3                                                          | .84                                                            |
| 28...    | <.01                                                            | 1.7                                                                            | <.02                                                            | .46                                                   | 9.5                                                      | 8.9                                                               | 25                                                               | 6100                                                           | 4.7                                                          | .37                                                            |
| JAN 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | .63                                                                            | .39                                                             | .74                                                   | 11                                                       | 10                                                                | 20                                                               | 740                                                            | 3.9                                                          | .64                                                            |
| 25...    | <.01                                                            | .66                                                                            | .23                                                             | .55                                                   | 11                                                       | 9.6                                                               | 20                                                               | 3100                                                           | 4.1                                                          | .47                                                            |
| 25...    | <.01                                                            | .60                                                                            | .22                                                             | .55                                                   | 10                                                       | 9.9                                                               | 20                                                               | 3000                                                           | 4.2                                                          | .47                                                            |
| FEB      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .93                                                                            | .30                                                             | .65                                                   | 14                                                       | 13                                                                | 19                                                               | 1900                                                           | 3.6                                                          | .56                                                            |
| 22...    | <.01                                                            | <.20                                                                           | <.02                                                            | .02                                                   | <.1                                                      | <.1                                                               | .6                                                               | .1                                                             | .05                                                          | .03                                                            |
| 22...    | <.01                                                            | .82                                                                            | .24                                                             | .64                                                   | 12                                                       | 12                                                                | 20                                                               | 2700                                                           | 3.0                                                          | .53                                                            |
| MAR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | .01                                                             | .63                                                                            | .14                                                             | .50                                                   | 10                                                       | 10                                                                | 21                                                               | 4100                                                           | 1.6                                                          | .47                                                            |
| 22...    | .01                                                             | .57                                                                            | .07                                                             | .41                                                   | 9.3                                                      | 9.2                                                               | 23                                                               | 6900                                                           | 1.0                                                          | .36                                                            |
| 22...    | <.01                                                            | .56                                                                            | .07                                                             | .44                                                   | 9.5                                                      | 9.1                                                               | 22                                                               | 6600                                                           | 1.1                                                          | .37                                                            |
| APR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 19...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                               | .7                                                               | <.1                                                            | <.01                                                         | .01                                                            |
| 19...    | .01                                                             | .77                                                                            | .07                                                             | .53                                                   | 11                                                       | 11                                                                | 24                                                               | 6700                                                           | 2.6                                                          | .50                                                            |
| 19...    | .01                                                             | .72                                                                            | .04                                                             | .46                                                   | 10                                                       | 10                                                                | 26                                                               | 8600                                                           | 2.4                                                          | .42                                                            |
| MAY      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | .98                                                                            | <.02                                                            | .46                                                   | 10                                                       | 9.7                                                               | 26                                                               | 8900                                                           | .8                                                           | .43                                                            |
| 25...    | <.01                                                            | .82                                                                            | <.02                                                            | .46                                                   | 10                                                       | 10                                                                | 26                                                               | 9000                                                           | .7                                                           | .42                                                            |
| JUN      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | .03                                                             | 1.2                                                                            | .92                                                             | .48                                                   | 20                                                       | 19                                                                | 11                                                               | 390                                                            | 6.2                                                          | .48                                                            |
| 22...    | .03                                                             | 1.9                                                                            | .61                                                             | .44                                                   | 15                                                       | 14                                                                | 17                                                               | 4700                                                           | 4.8                                                          | .43                                                            |
| JUL      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 27...    | <.01                                                            | 1.3                                                                            | .32                                                             | .52                                                   | 25                                                       | 25                                                                | 14                                                               | 86                                                             | 7.7                                                          | .48                                                            |
| 27...    | <.01                                                            | 1.2                                                                            | .30                                                             | .50                                                   | 26                                                       | 26                                                                | 16                                                               | 94                                                             | 7.5                                                          | .46                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>LICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| OCT 1998 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 28...    | --                                                                          | 125                                  | 1.7                                                                 | 3.4                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 998                                       | 98306.0                                                           |
| 28...    | 3.55                                                                        | 125                                  | 3610                                                                | 61                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 991                                       | 98306.0                                                           |
| 28...    | 3.55                                                                        | 125                                  | 7010                                                                | 68                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 989                                       | 98306.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 17...    | 3.95                                                                        | 125                                  | 730                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 1673                                      | 98324.0                                                           |
| 17...    | 3.95                                                                        | 125                                  | 1200                                                                | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 1674                                      | 98324.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 28...    | 3.65                                                                        | 125                                  | 13900                                                               | 101                                                                  | --                                                         | --                                                           | --                                                  | --                                          | 2841                                      | 98365.0                                                           |
| 28...    | 3.65                                                                        | 125                                  | 18800                                                               | 97                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 2842                                      | 98365.0                                                           |
| JAN 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 25...    | 2.95                                                                        | 125                                  | 2770                                                                | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 3411                                      | 99027.0                                                           |
| 25...    | 2.95                                                                        | 125                                  | 10200                                                               | 83                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 3412                                      | 99027.0                                                           |
| 25...    | 2.95                                                                        | 125                                  | 10200                                                               | 84                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 3417                                      | 99027.0                                                           |
| FEB      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 3.25                                                                        | 125                                  | 6520                                                                | 76                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4116.00                                   | 99055.0                                                           |
| 22...    | --                                                                          | 125                                  | 1.6                                                                 | 4.2                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 4122.00                                   | 99055.0                                                           |
| 22...    | 3.25                                                                        | 125                                  | 8590                                                                | 79                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4117.00                                   | 99055.0                                                           |
| MAR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 3.25                                                                        | 125                                  | 13100                                                               | 88                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4982.00                                   | 99084.0                                                           |
| 22...    | 3.25                                                                        | 125                                  | 20200                                                               | 95                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4983.00                                   | 99084.0                                                           |
| 22...    | 3.25                                                                        | 125                                  | 19900                                                               | 95                                                                   | --                                                         | --                                                           | --                                                  | 20.00                                       | 4988.00                                   | 99084.0                                                           |
| APR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 19...    | --                                                                          | 125                                  | 3.2                                                                 | 2.6                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 5873.00                                   | 99112.0                                                           |
| 19...    | 3.55                                                                        | 125                                  | 20600                                                               | 97                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 5866.00                                   | 99112.0                                                           |
| 19...    | 3.55                                                                        | 125                                  | 25600                                                               | 103                                                                  | --                                                         | --                                                           | --                                                  | --                                          | 5867.00                                   | 99112.0                                                           |
| MAY      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 25...    | 3.65                                                                        | 125                                  | 25300                                                               | 100                                                                  | --                                                         | --                                                           | --                                                  | --                                          | 6959.00                                   | 99148.0                                                           |
| 25...    | 3.65                                                                        | 125                                  | 25500                                                               | 101                                                                  | --                                                         | --                                                           | --                                                  | --                                          | 6960.00                                   | 99148.0                                                           |
| JUN      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 3.85                                                                        | 125                                  | 1780                                                                | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 7844.00                                   | 99176.0                                                           |
| 22...    | 3.85                                                                        | 125                                  | 14900                                                               | 67                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 7845.00                                   | 99176.0                                                           |
| JUL      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 27...    | 4.25                                                                        | 125                                  | 521                                                                 | 58                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 8803.00                                   | 99215.0                                                           |
| 27...    | 4.25                                                                        | 125                                  | 605                                                                 | 60                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 8802.00                                   | 99215.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID -<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT -<br>INUM -<br>COBALT<br>UNITS)<br>(00080) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS -<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA -<br>TILE,<br>SUS -<br>PENDE<br>(MG/L)<br>(00535) | NITRO -<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| AUG 1999 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | 9              | 1230 | 1028                                                                | 81213                                                              | 2.3                                      | 200                                                       | .30                                       | 3                                                                            | 2                                                                 | .02                                                              |
| 23...    | 9              | 1245 | 1028                                                                | 81213                                                              | 2.8                                      | 200                                                       | 3.8                                       | 3                                                                            | <1                                                                | .02                                                              |
| 23...    | R              | 1246 | 1028                                                                | 81213                                                              | 3.0                                      | 200                                                       | 3.8                                       | 4                                                                            | 2                                                                 | .03                                                              |
| SEP      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | R              | 1205 | 1028                                                                | 81213                                                              | 3.3                                      | 160                                                       | .30                                       | 6                                                                            | 3                                                                 | .04                                                              |
| 23...    | 9              | 1220 | 1028                                                                | 81213                                                              | 5.9                                      | 200                                                       | .30                                       | 8                                                                            | 2                                                                 | .05                                                              |
| 23...    | 9              | 1240 | 1028                                                                | 81213                                                              | 5.8                                      | 160                                                       | 3.8                                       | 11                                                                           | 4                                                                 | .04                                                              |
| OCT      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 19...    | Q              | 1255 | 1028                                                                | 81213                                                              | .08                                      | <5                                                        | --                                        | <1                                                                           | <1                                                                | .02                                                              |
| 19...    | 9              | 1310 | 1028                                                                | 81213                                                              | 2.6                                      | 320                                                       | .30                                       | <1                                                                           | 3                                                                 | .06                                                              |
| 19...    | 9              | 1325 | 1028                                                                | 81213                                                              | 4.3                                      | 320                                                       | 3.5                                       | <1                                                                           | 5                                                                 | .06                                                              |
| NOV      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 16...    | 9              | 1210 | 1028                                                                | 81213                                                              | 3.3                                      | 120                                                       | .30                                       | 18                                                                           | <1                                                                | .04                                                              |
| 16...    | 9              | 1230 | 1028                                                                | 81213                                                              | 5.3                                      | 100                                                       | 3.2                                       | 28                                                                           | 10                                                                | .04                                                              |
| DEC      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 20...    | 9              | 1200 | 1028                                                                | 81213                                                              | 2.3                                      | 60                                                        | .30                                       | 15                                                                           | 4                                                                 | .11                                                              |
| 20...    | 9              | 1225 | 1028                                                                | 81213                                                              | 5.6                                      | 50                                                        | 3.2                                       | 26                                                                           | 8                                                                 | .12                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| AUG 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 23...    | <.01                                                            | 1.1                                                                            | .19                                                             | .38                                                   | 22                                                       | 21                                                                | 11                                                               | 63                                                             | 5.2                                                          | .32                                                            |
| 23...    | <.01                                                            | 1.2                                                                            | .29                                                             | .48                                                   | 23                                                       | 22                                                                | 10                                                               | 57                                                             | 5.6                                                          | .41                                                            |
| 23...    | <.01                                                            | 1.1                                                                            | .29                                                             | .48                                                   | 23                                                       | 22                                                                | 9.9                                                              | 58                                                             | 5.6                                                          | .41                                                            |
| SEP      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 23...    | <.01                                                            | .86                                                                            | .26                                                             | .65                                                   | 20                                                       | 20                                                                | 14                                                               | 210                                                            | 7.7                                                          | .59                                                            |
| 23...    | <.01                                                            | .86                                                                            | .27                                                             | .68                                                   | 19                                                       | 19                                                                | 14                                                               | 240                                                            | 7.8                                                          | .59                                                            |
| 23...    | <.01                                                            | .88                                                                            | .27                                                             | .73                                                   | 20                                                       | 20                                                                | 15                                                               | 290                                                            | 7.8                                                          | .59                                                            |
| OCT      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 19...    | <.01                                                            | <.20                                                                           | <.02                                                            | .04                                                   | <.1                                                      | <.1                                                               | .4                                                               | .1                                                             | <.01                                                         | .02                                                            |
| 19...    | .01                                                             | 1.4                                                                            | .26                                                             | .71                                                   | 30                                                       | 30                                                                | 8.5                                                              | 25                                                             | 8.9                                                          | .68                                                            |
| 19...    | .01                                                             | 1.4                                                                            | .27                                                             | .84                                                   | 30                                                       | 30                                                                | 8.7                                                              | 25                                                             | 8.9                                                          | .70                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 16...    | <.01                                                            | .98                                                                            | .07                                                             | .42                                                   | 17                                                       | 17                                                                | 17                                                               | 3800                                                           | 3.1                                                          | .38                                                            |
| 16...    | <.01                                                            | .87                                                                            | <.02                                                            | .36                                                   | 14                                                       | 13                                                                | 20                                                               | 6100                                                           | 1.2                                                          | .30                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 20...    | .01                                                             | .61                                                                            | .34                                                             | .48                                                   | 11                                                       | 11                                                                | 22                                                               | 4500                                                           | 5.2                                                          | .43                                                            |
| 20...    | .01                                                             | .88                                                                            | .29                                                             | .45                                                   | 10                                                       | 10                                                                | 23                                                               | 6100                                                           | 4.4                                                          | .38                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
02297460 - PEACE RIVER AT HARBOUR HEIGHTS FL

WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>LICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| AUG 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 23...    | 4.05                                                                        | 125                                  | 437                                                                 | 53                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9880.00                                   | 99238.0                                                           |
| 23...    | 4.05                                                                        | 125                                  | 387                                                                 | 50                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9881.00                                   | 99238.0                                                           |
| 23...    | 4.05                                                                        | 125                                  | 383                                                                 | 50                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 9886.00                                   | 99238.0                                                           |
| SEP      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 23...    | 4.15                                                                        | 125                                  | 1030                                                                | 62                                                                   | --                                                         | --                                                           | --                                                  | 20.00                                       | 9920300                                   | 99270.0                                                           |
| 23...    | 4.15                                                                        | 125                                  | 1110                                                                | 64                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9920300                                   | 99270.0                                                           |
| 23...    | 4.15                                                                        | 125                                  | 1270                                                                | 64                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9920300                                   | 99270.0                                                           |
| OCT      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 19...    | --                                                                          | 125                                  | 3.5                                                                 | 3.1                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 9921300                                   | 99296.0                                                           |
| 19...    | 3.75                                                                        | 125                                  | 245                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9921300                                   | 99296.0                                                           |
| 19...    | 3.75                                                                        | 125                                  | 238                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9921300                                   | 99296.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 16...    | 3.55                                                                        | 125                                  | 12100                                                               | 74                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9922100                                   | 99323.0                                                           |
| 16...    | 3.55                                                                        | 125                                  | 18200                                                               | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9922100                                   | 99323.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 20...    | 3.55                                                                        | 125                                  | 14600                                                               | 88                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9923000                                   | 99356.0                                                           |
| 20...    | 3.55                                                                        | 125                                  | 18900                                                               | 92                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9923000                                   | 99356.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID -<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT -<br>INUM -<br>COBALT<br>UNITS)<br>(00080) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS -<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA -<br>TILE,<br>SUS -<br>PENDE<br>(MG/L)<br>(00535) | NITRO -<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| OCT 1998 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 28...    | 9              | 1035 | 1028                                                                | 81213                                                              | .45                                      | 40                                                        | .30                                       | 23                                                                           | 10                                                                | .04                                                              |
| 28...    | 9              | 1055 | 1028                                                                | 81213                                                              | .76                                      | 40                                                        | 3.5                                       | 24                                                                           | 9                                                                 | .11                                                              |
| NOV      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 17...    | 9              | 1035 | 1028                                                                | 81213                                                              | .38                                      | 30                                                        | .30                                       | 26                                                                           | <1                                                                | .03                                                              |
| 17...    | 9              | 1055 | 1028                                                                | 81213                                                              | 2.2                                      | 20                                                        | 3.5                                       | 31                                                                           | 11                                                                | .20                                                              |
| DEC      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 28...    | 9              | 1130 | 1028                                                                | 81213                                                              | .30                                      | 20                                                        | .30                                       | 28                                                                           | 11                                                                | .05                                                              |
| 28...    | 9              | 1155 | 1028                                                                | 81213                                                              | .37                                      | 20                                                        | 3.8                                       | 25                                                                           | 10                                                                | .05                                                              |
| JAN 1999 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 25...    | 9              | 1040 | 1028                                                                | 81213                                                              | .50                                      | 20                                                        | .30                                       | 35                                                                           | 12                                                                | .02                                                              |
| 25...    | 9              | 1120 | 1028                                                                | 81213                                                              | .49                                      | 20                                                        | 3.3                                       | 50                                                                           | 12                                                                | .02                                                              |
| FEB      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | 9              | 1035 | 1028                                                                | 81213                                                              | .66                                      | 20                                                        | .30                                       | 30                                                                           | 10                                                                | .01                                                              |
| 22...    | 9              | 1050 | 1028                                                                | 81213                                                              | .48                                      | 20                                                        | 3.2                                       | 38                                                                           | 12                                                                | .02                                                              |
| MAR      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | 9              | 1050 | 1028                                                                | 81213                                                              | .40                                      | 20                                                        | .30                                       | 51                                                                           | 17                                                                | .03                                                              |
| 22...    | 9              | 1105 | 1028                                                                | 81213                                                              | .44                                      | 20                                                        | 3.3                                       | 48                                                                           | 17                                                                | .03                                                              |
| APR      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 05...    | Q              | 1000 | 1028                                                                | 81213                                                              | --                                       | --                                                        | --                                        | --                                                                           | --                                                                | --                                                               |
| 05...    | Q              | 1001 | 1028                                                                | 81213                                                              | --                                       | --                                                        | --                                        | --                                                                           | --                                                                | --                                                               |
| 19...    | 9              | 0920 | 1028                                                                | 81213                                                              | .14                                      | 10                                                        | .30                                       | 50                                                                           | 18                                                                | .03                                                              |
| 19...    | 9              | 0940 | 1028                                                                | 81213                                                              | .13                                      | 10                                                        | 3.3                                       | 54                                                                           | 17                                                                | .04                                                              |
| MAY      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 25...    | 9              | 1005 | 1028                                                                | 81213                                                              | .28                                      | 10                                                        | .30                                       | 50                                                                           | 19                                                                | .04                                                              |
| 25...    | 9              | 1025 | 1028                                                                | 81213                                                              | .26                                      | 10                                                        | 3.8                                       | 52                                                                           | 20                                                                | .04                                                              |
| JUN      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 22...    | 9              | 0935 | 1028                                                                | 81213                                                              | .25                                      | 40                                                        | .30                                       | 32                                                                           | 10                                                                | .07                                                              |
| 22...    | 9              | 0955 | 1028                                                                | 81213                                                              | .30                                      | 20                                                        | 3.8                                       | 44                                                                           | 17                                                                | .04                                                              |
| JUL      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 27...    | 9              | 0910 | 1028                                                                | 81213                                                              | .75                                      | 80                                                        | .30                                       | 18                                                                           | 8                                                                 | .02                                                              |
| 27...    | 9              | 0930 | 1028                                                                | 81213                                                              | 1.4                                      | 40                                                        | 3.8                                       | 33                                                                           | 11                                                                | .46                                                              |
| AUG      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | 9              | 0955 | 1028                                                                | 81213                                                              | 1.8                                      | 70                                                        | .30                                       | 27                                                                           | 14                                                                | .04                                                              |
| 23...    | 9              | 1015 | 1028                                                                | 81213                                                              | 1.7                                      | 60                                                        | 3.8                                       | 12                                                                           | 7                                                                 | .13                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| OCT 1998 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | .45                                                                            | <.02                                                            | .16                                                   | 8.5                                                      | 8.3                                                               | 35                                                               | 12000                                                          | 3.1                                                          | .18                                                            |
| 28...    | .01                                                             | .48                                                                            | <.02                                                            | .17                                                   | 5.7                                                      | 5.6                                                               | 37                                                               | 13000                                                          | 3.2                                                          | .17                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 17...    | <.01                                                            | .54                                                                            | <.02                                                            | .16                                                   | 4.4                                                      | 4.4                                                               | 22                                                               | 12000                                                          | 1.3                                                          | .14                                                            |
| 17...    | .01                                                             | .57                                                                            | <.02                                                            | .19                                                   | 3.6                                                      | 3.3                                                               | 25                                                               | 14000                                                          | 2.6                                                          | .16                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | .02                                                             | .47                                                                            | <.02                                                            | .10                                                   | 4.9                                                      | 4.9                                                               | 26                                                               | 14000                                                          | 1.4                                                          | .12                                                            |
| 28...    | .02                                                             | .42                                                                            | <.02                                                            | .09                                                   | 4.9                                                      | 4.0                                                               | 26                                                               | 15000                                                          | 1.4                                                          | .12                                                            |
| JAN 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | .38                                                                            | <.02                                                            | .12                                                   | 6.0                                                      | 5.1                                                               | 24                                                               | 14000                                                          | 1.4                                                          | .12                                                            |
| 25...    | <.01                                                            | .42                                                                            | <.02                                                            | .10                                                   | 5.0                                                      | 3.9                                                               | 26                                                               | 15000                                                          | 1.2                                                          | .11                                                            |
| FEB      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .57                                                                            | <.02                                                            | .17                                                   | 7.9                                                      | 6.7                                                               | 26                                                               | 13000                                                          | .1                                                           | .14                                                            |
| 22...    | <.01                                                            | .48                                                                            | <.02                                                            | .14                                                   | 5.7                                                      | 5.5                                                               | 26                                                               | 14000                                                          | .1                                                           | .12                                                            |
| MAR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .41                                                                            | <.02                                                            | .11                                                   | 5.2                                                      | 4.3                                                               | 26                                                               | 15000                                                          | .5                                                           | .10                                                            |
| 22...    | .01                                                             | .41                                                                            | <.02                                                            | .12                                                   | 4.1                                                      | 4.0                                                               | 26                                                               | 16000                                                          | .7                                                           | .10                                                            |
| APR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 05...    | --                                                              | --                                                                             | --                                                              | --                                                    | --                                                       | --                                                                | --                                                               | --                                                             | .03                                                          | --                                                             |
| 05...    | --                                                              | --                                                                             | --                                                              | --                                                    | --                                                       | --                                                                | --                                                               | --                                                             | .01                                                          | --                                                             |
| 19...    | .02                                                             | .38                                                                            | <.02                                                            | .10                                                   | 5.7                                                      | 5.4                                                               | 28                                                               | 16000                                                          | .5                                                           | .11                                                            |
| 19...    | .02                                                             | .47                                                                            | <.02                                                            | .11                                                   | 4.1                                                      | 4.0                                                               | 28                                                               | 16000                                                          | .6                                                           | .11                                                            |
| MAY      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | .01                                                             | .55                                                                            | <.02                                                            | .14                                                   | 6.3                                                      | 5.8                                                               | 31                                                               | 16000                                                          | .1                                                           | .13                                                            |
| 25...    | .01                                                             | .49                                                                            | <.02                                                            | .12                                                   | 5.3                                                      | 4.6                                                               | 32                                                               | 17000                                                          | 1.1                                                          | .11                                                            |
| JUN      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | .02                                                             | .50                                                                            | .10                                                             | .17                                                   | 7.8                                                      | 7.3                                                               | 24                                                               | 12000                                                          | 1.5                                                          | .19                                                            |
| 22...    | .01                                                             | .30                                                                            | .02                                                             | .12                                                   | 5.6                                                      | 5.1                                                               | 25                                                               | 15000                                                          | .5                                                           | .13                                                            |
| JUL      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 27...    | <.01                                                            | 1.0                                                                            | <.02                                                            | .29                                                   | 15                                                       | 15                                                                | 24                                                               | 7300                                                           | 3.5                                                          | .28                                                            |
| 27...    | <.01                                                            | 1.1                                                                            | <.02                                                            | .23                                                   | 9.7                                                      | 9.5                                                               | 29                                                               | 12000                                                          | 4.9                                                          | .23                                                            |
| AUG      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 23...    | <.01                                                            | 1.1                                                                            | <.02                                                            | .26                                                   | 15                                                       | 14                                                                | 22                                                               | 8200                                                           | 3.1                                                          | .22                                                            |
| 23...    | <.01                                                            | .92                                                                            | <.02                                                            | .24                                                   | 12                                                       | 12                                                                | 23                                                               | 8900                                                           | 3.5                                                          | .22                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| OCT 1998 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 28...    | 3.75                                                                        | 125                                  | 33400                                                               | 105                                                                  | --                                                         | --                                                           | --                                                  | 990                                       | 98306.0                                                           |
| 28...    | 3.75                                                                        | 125                                  | 35600                                                               | 109                                                                  | --                                                         | --                                                           | --                                                  | 988                                       | 98306.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 17...    | 3.85                                                                        | 125                                  | 33700                                                               | 101                                                                  | --                                                         | --                                                           | --                                                  | 1669                                      | 98324.0                                                           |
| 17...    | 3.85                                                                        | 125                                  | 38400                                                               | 108                                                                  | --                                                         | --                                                           | --                                                  | 1670                                      | 98324.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 28...    | 4.05                                                                        | 125                                  | 39900                                                               | 113                                                                  | --                                                         | --                                                           | --                                                  | 2837                                      | 98365.0                                                           |
| 28...    | 4.05                                                                        | 125                                  | 39800                                                               | 113                                                                  | --                                                         | --                                                           | --                                                  | 2838                                      | 98365.0                                                           |
| JAN 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 25...    | 3.65                                                                        | 125                                  | 38800                                                               | 108                                                                  | --                                                         | --                                                           | --                                                  | 3407                                      | 99027.0                                                           |
| 25...    | 3.65                                                                        | 125                                  | 39900                                                               | 111                                                                  | --                                                         | --                                                           | --                                                  | 3408                                      | 99027.0                                                           |
| FEB      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 22...    | 3.55                                                                        | 125                                  | 36300                                                               | 109                                                                  | --                                                         | --                                                           | --                                                  | 4112.00                                   | 99055.0                                                           |
| 22...    | 3.55                                                                        | 125                                  | 38600                                                               | 114                                                                  | --                                                         | --                                                           | --                                                  | 4113.00                                   | 99055.0                                                           |
| MAR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 22...    | 3.65                                                                        | 125                                  | 40500                                                               | 117                                                                  | --                                                         | --                                                           | --                                                  | 4978.00                                   | 99084.0                                                           |
| 22...    | 3.65                                                                        | 125                                  | 41000                                                               | 118                                                                  | --                                                         | --                                                           | --                                                  | 4979.00                                   | 99084.0                                                           |
| APR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 05...    | --                                                                          | 125                                  | --                                                                  | --                                                                   | 10.00                                                      | 80.00                                                        | 150.00                                              | 5252.00                                   | 99096.0                                                           |
| 05...    | --                                                                          | --                                   | --                                                                  | --                                                                   | 10.00                                                      | 80.00                                                        | 150.00                                              | 5253.00                                   | 99096.0                                                           |
| 19...    | 3.65                                                                        | 125                                  | 43600                                                               | 121                                                                  | --                                                         | --                                                           | --                                                  | 5862.00                                   | 99112.0                                                           |
| 19...    | 3.65                                                                        | 125                                  | 43800                                                               | 121                                                                  | --                                                         | --                                                           | --                                                  | 5863.00                                   | 99112.0                                                           |
| MAY      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 25...    | 4.05                                                                        | 125                                  | 44400                                                               | 119                                                                  | --                                                         | --                                                           | --                                                  | 6955.00                                   | 99148.0                                                           |
| 25...    | 4.05                                                                        | 125                                  | 46200                                                               | 122                                                                  | --                                                         | --                                                           | --                                                  | 6956.00                                   | 99148.0                                                           |
| JUN      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 22...    | 4.15                                                                        | 125                                  | 34000                                                               | 99                                                                   | --                                                         | --                                                           | --                                                  | 7840.00                                   | 99176.0                                                           |
| 22...    | 4.15                                                                        | 125                                  | 40300                                                               | 108                                                                  | --                                                         | --                                                           | --                                                  | 7841.00                                   | 99176.0                                                           |
| JUL      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 27...    | 4.05                                                                        | 125                                  | 20500                                                               | 90                                                                   | --                                                         | --                                                           | --                                                  | 8798.00                                   | 99215.0                                                           |
| 27...    | 4.05                                                                        | 125                                  | 32200                                                               | 105                                                                  | --                                                         | --                                                           | --                                                  | 8799.00                                   | 99215.0                                                           |
| AUG      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 23...    | 4.15                                                                        | 125                                  | 23500                                                               | 96                                                                   | --                                                         | --                                                           | --                                                  | 9876.00                                   | 99238.0                                                           |
| 23...    | 4.15                                                                        | 125                                  | 25800                                                               | 99                                                                   | --                                                         | --                                                           | --                                                  | 9877.00                                   | 99238.0                                                           |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID -<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT -<br>INUM -<br>COBALT<br>UNITS)<br>(00080) | SAM -<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS -<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA -<br>TILE,<br>SUS -<br>PENDE<br>(MG/L)<br>(00535) | NITRO -<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|
| SEP 1999 |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 23...    | 9              | 0915 | 1028                                                                | 81213                                                              | 1.0                                      | 80                                                        | .30                                       | 32                                                                           | 13                                                                | .20                                                              |
| 23...    | 9              | 0935 | 1028                                                                | 81213                                                              | 1.3                                      | 30                                                        | 3.7                                       | 38                                                                           | 16                                                                | .26                                                              |
| OCT      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 19...    | 9              | 1020 | 1028                                                                | 81213                                                              | 1.6                                      | 80                                                        | .30                                       | 32                                                                           | 15                                                                | .13                                                              |
| 19...    | 9              | 1030 | 1028                                                                | 81213                                                              | 3.0                                      | 50                                                        | 3.8                                       | 43                                                                           | 17                                                                | .24                                                              |
| NOV      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 16...    | 9              | 0940 | 1028                                                                | 81213                                                              | .57                                      | 30                                                        | .30                                       | 29                                                                           | 9                                                                 | .04                                                              |
| 16...    | 9              | 0955 | 1028                                                                | 81213                                                              | 4.7                                      | 20                                                        | 3.8                                       | 41                                                                           | 12                                                                | .05                                                              |
| DEC      |                |      |                                                                     |                                                                    |                                          |                                                           |                                           |                                                                              |                                                                   |                                                                  |
| 01...    | Q              | 1100 | 1028                                                                | 81213                                                              | .07                                      | <5                                                        | --                                        | <1                                                                           | <1                                                                | .02                                                              |
| 20...    | 9              | 0920 | 1028                                                                | 81213                                                              | 5.4                                      | 20                                                        | .30                                       | 48                                                                           | 12                                                                | .07                                                              |
| 20...    | 9              | 0940 | 1028                                                                | 81213                                                              | 7.6                                      | 10                                                        | 3.2                                       | 48                                                                           | 11                                                                | .07                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| SEP 1999 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 23...    | .02                                                             | .80                                                                           | .08                                                             | .24                                                   | 12                                                       | 12                                                                         | 22                                                               | 8200                                                                    | 4.0                                                          | .20                                                            |
| 23...    | .01                                                             | .54                                                                           | <.02                                                            | .12                                                   | 7.4                                                      | 7.1                                                                        | 26                                                               | 14000                                                                   | 2.6                                                          | .15                                                            |
| OCT      |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 19...    | .02                                                             | .91                                                                           | .06                                                             | .20                                                   | 11                                                       | 10                                                                         | 21                                                               | 9200                                                                    | 3.7                                                          | .20                                                            |
| 19...    | .02                                                             | .63                                                                           | .04                                                             | .16                                                   | 11                                                       | 10                                                                         | 21                                                               | 12000                                                                   | 3.8                                                          | .16                                                            |
| NOV      |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 16...    | <.01                                                            | .43                                                                           | <.02                                                            | .10                                                   | 7.3                                                      | 7.2                                                                        | 25                                                               | 13000                                                                   | 1                                                            | .12                                                            |
| 16...    | .01                                                             | .91                                                                           | <.02                                                            | .10                                                   | 5.3                                                      | 5.2                                                                        | 27                                                               | 15000                                                                   | 1.1                                                          | .10                                                            |
| DEC      |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                            |                                                                  |                                                                         |                                                              |                                                                |
| 01...    | <.01                                                            | <.20                                                                          | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                                        | <.1                                                              | <.1                                                                     | .02                                                          | <.01                                                           |
| 20...    | .01                                                             | .55                                                                           | <.02                                                            | .14                                                   | 5.5                                                      | 5.4                                                                        | 27                                                               | 15000                                                                   | 1.7                                                          | .09                                                            |
| 20...    | .01                                                             | .71                                                                           | <.02                                                            | .15                                                   | 4.2                                                      | 4.2                                                                        | 28                                                               | 16000                                                                   | 1.9                                                          | .08                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| SEP 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 23...    | 3.95                                                                        | 125                                  | 24000                                                               | 94                                                                   | --                                                         | --                                                           | --                                                  | 9920300                                   | 99270.0                                                           |
| 23...    | 3.95                                                                        | 125                                  | 37600                                                               | 108                                                                  | --                                                         | --                                                           | --                                                  | 9920300                                   | 99270.0                                                           |
| OCT      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 19...    | 4.05                                                                        | 125                                  | 27300                                                               | 96                                                                   | --                                                         | --                                                           | --                                                  | 9921300                                   | 99296.0                                                           |
| 19...    | 4.05                                                                        | 125                                  | 35000                                                               | 106                                                                  | --                                                         | --                                                           | --                                                  | 9921300                                   | 99296.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 16...    | 4.05                                                                        | 125                                  | 37000                                                               | 108                                                                  | --                                                         | --                                                           | --                                                  | 9922100                                   | 99323.0                                                           |
| 16...    | 4.05                                                                        | 125                                  | 41200                                                               | 113                                                                  | --                                                         | --                                                           | --                                                  | 9922100                                   | 99323.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                           |                                                                   |
| 01...    | --                                                                          | 125                                  | 1.2                                                                 | 4.6                                                                  | 10.00                                                      | 80.00                                                        | 150.00                                              | 9922500                                   | 99337.0                                                           |
| 20...    | 3.55                                                                        | 125                                  | 41400                                                               | 112                                                                  | --                                                         | --                                                           | --                                                  | 9923000                                   | 99356.0                                                           |
| 20...    | 3.55                                                                        | 125                                  | 42900                                                               | 114                                                                  | --                                                         | --                                                           | --                                                  | 9923000                                   | 99356.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA-<br>TILE,<br>SUS-<br>PENDE<br>(MG/L)<br>(00535) |
|----------|----------------|------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
| OCT 1998 |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 28...    | 9              | 1150 | 1028                                                               | 81213                                                             | 3.1                                     | 100                                                     | .30                                      | 26                                                                          | 12                                                              |
| 28...    | 9              | 1205 | 1028                                                               | 81213                                                             | 5.4                                     | 100                                                     | 2.7                                      | 28                                                                          | 12                                                              |
| NOV      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 17...    | 9              | 1150 | 1028                                                               | 81213                                                             | 1.4                                     | 70                                                      | .30                                      | 24                                                                          | 9                                                               |
| 17...    | 9              | 1215 | 1028                                                               | 81213                                                             | 3.7                                     | 50                                                      | 2.7                                      | 38                                                                          | 12                                                              |
| DEC      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 28...    | 9              | 1250 | 1028                                                               | 81213                                                             | .30                                     | 30                                                      | .30                                      | 28                                                                          | 12                                                              |
| 28...    | 9              | 1320 | 1028                                                               | 81213                                                             | 6.5                                     | 40                                                      | 2.8                                      | 46                                                                          | 15                                                              |
| JAN 1999 |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 25...    | 9              | 1225 | 1028                                                               | 81213                                                             | 1.1                                     | 50                                                      | .30                                      | 23                                                                          | 10                                                              |
| 25...    | 9              | 1240 | 1028                                                               | 81213                                                             | 2.2                                     | 30                                                      | 2.5                                      | 36                                                                          | 12                                                              |
| FEB      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 22...    | 9              | 1210 | 1028                                                               | 81213                                                             | 1.5                                     | 40                                                      | .30                                      | 25                                                                          | 9                                                               |
| 22...    | 9              | 1220 | 1028                                                               | 81213                                                             | 1.3                                     | 50                                                      | 2.3                                      | 33                                                                          | 12                                                              |
| MAR      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 22...    | 9              | 1205 | 1028                                                               | 81213                                                             | 1.2                                     | 40                                                      | .30                                      | 41                                                                          | 16                                                              |
| 22...    | 9              | 1215 | 1028                                                               | 81213                                                             | 1.2                                     | 40                                                      | 2.8                                      | 47                                                                          | 16                                                              |
| APR      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 19...    | 9              | 1035 | 1028                                                               | 81213                                                             | .50                                     | 20                                                      | .30                                      | 36                                                                          | 13                                                              |
| 19...    | 9              | 1050 | 1028                                                               | 81213                                                             | .44                                     | 20                                                      | 2.3                                      | 41                                                                          | 15                                                              |
| MAY      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 25...    | 9              | 1115 | 1028                                                               | 81213                                                             | .28                                     | 10                                                      | .30                                      | 54                                                                          | 21                                                              |
| 25...    | 9              | 1125 | 1028                                                               | 81213                                                             | .36                                     | 20                                                      | 2.8                                      | 56                                                                          | 23                                                              |
| JUN      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 22...    | 9              | 1040 | 1028                                                               | 81213                                                             | .30                                     | 60                                                      | .30                                      | 32                                                                          | 12                                                              |
| 22...    | 9              | 1110 | 1028                                                               | 81213                                                             | .29                                     | 10                                                      | 2.8                                      | 51                                                                          | 22                                                              |
| JUL      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 27...    | 9              | 1020 | 1028                                                               | 81213                                                             | 1.2                                     | 120                                                     | .30                                      | 17                                                                          | 7                                                               |
| 27...    | 9              | 1035 | 1028                                                               | 81213                                                             | 1.2                                     | 80                                                      | 2.8                                      | 26                                                                          | 10                                                              |
| AUG      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 23...    | 9              | 1110 | 1028                                                               | 81213                                                             | 1.3                                     | 120                                                     | .30                                      | 6                                                                           | 2                                                               |
| 23...    | 9              | 1120 | 1028                                                               | 81213                                                             | 3.1                                     | 70                                                      | 3.3                                      | 14                                                                          | 6                                                               |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) |
|----------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| OCT 1998 |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 28...    | .02                                                             | <.01                                                            | .84                                                                           | <.02                                                            | .35                                                   | 10                                                       | 10                                                                | 31                                                               | 8500                                                           |
| 28...    | .03                                                             | <.01                                                            | .77                                                                           | <.02                                                            | .36                                                   | 11                                                       | 9.8                                                               | 30                                                               | 8500                                                           |
| NOV      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 17...    | .07                                                             | <.01                                                            | .88                                                                           | .04                                                             | .28                                                   | 7.7                                                      | 7.3                                                               | 19                                                               | 8100                                                           |
| 17...    | .23                                                             | .01                                                             | .60                                                                           | .03                                                             | .37                                                   | 4.9                                                      | 4.7                                                               | 22                                                               | 11000                                                          |
| DEC      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 28...    | .10                                                             | .02                                                             | .76                                                                           | <.02                                                            | .20                                                   | 6.7                                                      | 6.5                                                               | 25                                                               | 11000                                                          |
| 28...    | .09                                                             | .02                                                             | .62                                                                           | <.02                                                            | .21                                                   | 5.2                                                      | 5.0                                                               | 27                                                               | 14000                                                          |
| JAN 1999 |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 25...    | .03                                                             | <.01                                                            | .59                                                                           | .03                                                             | .27                                                   | 7.5                                                      | 7.3                                                               | 22                                                               | 8300                                                           |
| 25...    | .05                                                             | .01                                                             | .48                                                                           | <.02                                                            | .18                                                   | 6.2                                                      | 5.0                                                               | 25                                                               | 14000                                                          |
| FEB      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 22...    | .02                                                             | <.01                                                            | .73                                                                           | <.02                                                            | .31                                                   | 9.0                                                      | 8.8                                                               | 23                                                               | 9100                                                           |
| 22...    | .04                                                             | <.01                                                            | .79                                                                           | <.02                                                            | .29                                                   | 8.1                                                      | 7.2                                                               | 25                                                               | 11000                                                          |
| MAR      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 22...    | <.01                                                            | <.01                                                            | .60                                                                           | <.02                                                            | .25                                                   | 7.6                                                      | 7.2                                                               | 24                                                               | 12000                                                          |
| 22...    | .03                                                             | .01                                                             | .65                                                                           | <.02                                                            | .26                                                   | 7.1                                                      | 6.9                                                               | 25                                                               | 13000                                                          |
| APR      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 19...    | .14                                                             | .02                                                             | .66                                                                           | .02                                                             | .25                                                   | 8.5                                                      | 8.1                                                               | 26                                                               | 13000                                                          |
| 19...    | .14                                                             | .01                                                             | .55                                                                           | .02                                                             | .26                                                   | 8.4                                                      | 7.6                                                               | 26                                                               | 13000                                                          |
| MAY      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 25...    | .04                                                             | .01                                                             | .73                                                                           | <.02                                                            | .27                                                   | 8.5                                                      | 7.7                                                               | 28                                                               | 15000                                                          |
| 25...    | .04                                                             | .01                                                             | .85                                                                           | <.02                                                            | .29                                                   | 7.1                                                      | 6.7                                                               | 28                                                               | 15000                                                          |
| JUN      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 22...    | .13                                                             | .02                                                             | .73                                                                           | .22                                                             | .26                                                   | 7.4                                                      | 7.2                                                               | 25                                                               | 10000                                                          |
| 22...    | .12                                                             | .01                                                             | .43                                                                           | .02                                                             | .17                                                   | 5.4                                                      | 5.4                                                               | 28                                                               | 15000                                                          |
| JUL      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 27...    | .07                                                             | <.01                                                            | 1.1                                                                           | .08                                                             | .39                                                   | 17                                                       | 16                                                                | 20                                                               | 4800                                                           |
| 27...    | .34                                                             | <.01                                                            | 1.2                                                                           | <.02                                                            | .38                                                   | 12                                                       | 12                                                                | 24                                                               | 8400                                                           |
| AUG      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 23...    | .12                                                             | .01                                                             | 1.0                                                                           | .14                                                             | .41                                                   | 18                                                       | 17                                                                | 16                                                               | 3000                                                           |
| 23...    | .29                                                             | .01                                                             | 1.1                                                                           | .04                                                             | .33                                                   | 14                                                       | 13                                                                | 22                                                               | 7600                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

## WATER-QUALITY DATA

| DATE     | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|--------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| OCT 1998 |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 28...    | 3.3                                                          | .31                                                            | 2.95                                                                        | 125                                  | 24300                                                               | 93                                                                   | 992                                       | 98306.0                                                           |
| 28...    | 3.3                                                          | .30                                                            | 2.95                                                                        | 125                                  | 24600                                                               | 93                                                                   | 987                                       | 98306.0                                                           |
| NOV      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 17...    | 3.1                                                          | .23                                                            | 2.95                                                                        | 125                                  | 22800                                                               | 82                                                                   | 1671                                      | 98324.0                                                           |
| 17...    | 3.2                                                          | .22                                                            | 2.95                                                                        | 125                                  | 31900                                                               | 96                                                                   | 1672                                      | 98324.0                                                           |
| DEC      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 28...    | 2.8                                                          | .20                                                            | 3.15                                                                        | 125                                  | 31100                                                               | 104                                                                  | 2839                                      | 98365.0                                                           |
| 28...    | 2.1                                                          | .14                                                            | 3.15                                                                        | 125                                  | 37800                                                               | 110                                                                  | 2840                                      | 98365.0                                                           |
| JAN 1999 |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 25...    | 3.2                                                          | .25                                                            | 2.85                                                                        | 125                                  | 24400                                                               | 94                                                                   | 3409                                      | 99027.0                                                           |
| 25...    | 2.0                                                          | .16                                                            | 2.85                                                                        | 125                                  | 36800                                                               | 104                                                                  | 3410                                      | 99027.0                                                           |
| FEB      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 22...    | .1                                                           | .25                                                            | 2.65                                                                        | 125                                  | 26300                                                               | 96                                                                   | 4114.00                                   | 99055.0                                                           |
| 22...    | .2                                                           | .20                                                            | 2.65                                                                        | 125                                  | 31300                                                               | 102                                                                  | 4115.00                                   | 99055.0                                                           |
| MAR      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 22...    | .09                                                          | .16                                                            | 3.05                                                                        | 125                                  | 33800                                                               | 108                                                                  | 4980.00                                   | 99084.0                                                           |
| 22...    | .1                                                           | .16                                                            | 3.05                                                                        | 125                                  | 34500                                                               | 108                                                                  | 4981.00                                   | 99084.0                                                           |
| APR      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 19...    | 1.5                                                          | .25                                                            | 2.65                                                                        | 125                                  | 36200                                                               | 111                                                                  | 5864.00                                   | 99112.0                                                           |
| 19...    | 1.5                                                          | .24                                                            | 2.65                                                                        | 125                                  | 36500                                                               | 112                                                                  | 5865.00                                   | 99112.0                                                           |
| MAY      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 25...    | .10                                                          | .22                                                            | 3.15                                                                        | 125                                  | 40500                                                               | 114                                                                  | 6957.00                                   | 99148.0                                                           |
| 25...    | .1                                                           | .22                                                            | 3.15                                                                        | 125                                  | 40600                                                               | 113                                                                  | 6958.00                                   | 99148.0                                                           |
| JUN      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 22...    | 2.9                                                          | .28                                                            | 3.15                                                                        | 125                                  | 29200                                                               | 92                                                                   | 7842.00                                   | 99176.0                                                           |
| 22...    | 1.9                                                          | .18                                                            | 3.15                                                                        | 125                                  | 41600                                                               | 110                                                                  | 7843.00                                   | 99176.0                                                           |
| JUL      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 27...    | 5.5                                                          | .35                                                            | 3.15                                                                        | 125                                  | 14400                                                               | 81                                                                   | 8800.00                                   | 99215.0                                                           |
| 27...    | 5.2                                                          | .34                                                            | 3.15                                                                        | 125                                  | 23700                                                               | 93                                                                   | 8801.00                                   | 99215.0                                                           |
| AUG      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 23...    | 5.3                                                          | .36                                                            | 3.65                                                                        | 125                                  | 9850                                                                | 71                                                                   | 9878.00                                   | 99238.0                                                           |
| 23...    | 5.1                                                          | .28                                                            | 3.65                                                                        | 125                                  | 22000                                                               | 93                                                                   | 9879.00                                   | 99238.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

| WATER-QUALITY DATA |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
|--------------------|----------------|------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|
| DATE               | MEDIUM<br>CODE | TIME | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA-<br>TILE,<br>SUS-<br>PENDE<br>(MG/L)<br>(00535) |
| SEP 1999           |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 23...              | 9              | 1030 | 1028                                                               | 81213                                                             | 1.6                                     | 50                                                      | .30                                      | 18                                                                          | 9                                                               |
| 23...              | 9              | 1045 | 1028                                                               | 81213                                                             | 4.1                                     | 50                                                      | 2.8                                      | 39                                                                          | 15                                                              |
| OCT                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 19...              | 9              | 1130 | 1028                                                               | 81213                                                             | 2.2                                     | 240                                                     | .30                                      | 13                                                                          | 8                                                               |
| 19...              | 9              | 1145 | 1028                                                               | 81213                                                             | 4.2                                     | 60                                                      | 2.8                                      | 40                                                                          | 16                                                              |
| NOV                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 16...              | 9              | 1050 | 1028                                                               | 81213                                                             | 1.0                                     | 40                                                      | .30                                      | 23                                                                          | 8                                                               |
| 16...              | 9              | 1110 | 1028                                                               | 81213                                                             | 2.6                                     | 50                                                      | 2.5                                      | 33                                                                          | 11                                                              |
| DEC                |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |
| 20...              | 9              | 1040 | 1028                                                               | 81213                                                             | 6.6                                     | 20                                                      | .30                                      | 50                                                                          | 12                                                              |
| 20...              | 9              | 1100 | 1028                                                               | 81213                                                             | 7.2                                     | 20                                                      | 2.7                                      | 45                                                                          | 13                                                              |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) |
|----------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| SEP 1999 |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 23...    | .17                                                             | .02                                                             | .98                                                                           | .13                                                             | .29                                                   | 15                                                       | 14                                                                | 21                                                               | 5600                                                           |
| 23...    | .27                                                             | .02                                                             | .85                                                                           | .03                                                             | .20                                                   | 9.6                                                      | 8.9                                                               | 25                                                               | 11000                                                          |
| OCT      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 19...    | .09                                                             | .02                                                             | 1.2                                                                           | .21                                                             | .44                                                   | 22                                                       | 21                                                                | 14                                                               | 2700                                                           |
| 19...    | .27                                                             | .02                                                             | .95                                                                           | .04                                                             | .19                                                   | 8.5                                                      | 8.2                                                               | 24                                                               | 11000                                                          |
| NOV      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 16...    | .04                                                             | <.01                                                            | .57                                                                           | <.02                                                            | .14                                                   | 8.8                                                      | 8.8                                                               | 24                                                               | 12000                                                          |
| 16...    | .03                                                             | <.01                                                            | .57                                                                           | <.02                                                            | .17                                                   | 8.1                                                      | 8.1                                                               | 24                                                               | 12000                                                          |
| DEC      |                                                                 |                                                                 |                                                                               |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |
| 20...    | .09                                                             | .02                                                             | .82                                                                           | .03                                                             | .22                                                   | 6.8                                                      | 6.7                                                               | 26                                                               | 13000                                                          |
| 20...    | .09                                                             | .01                                                             | .75                                                                           | .02                                                             | .22                                                   | 6.5                                                      | 6.3                                                               | 27                                                               | 14000                                                          |



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

WATER-QUALITY DATA

| DATE     | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|--------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| SEP 1999 |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 23...    | 5.6                                                          | .29                                                            | 3.15                                                                        | 125                                  | 17500                                                               | 86                                                                   | 9920300                                   | 99270.0                                                           |
| 23...    | 3.3                                                          | .18                                                            | 3.15                                                                        | 125                                  | 31300                                                               | 103                                                                  | 9920300                                   | 99270.0                                                           |
| OCT      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 19...    | 7.0                                                          | .45                                                            | 3.15                                                                        | 125                                  | 9070                                                                | 64                                                                   | 9921300                                   | 99296.0                                                           |
| 19...    | 4.0                                                          | .16                                                            | 3.15                                                                        | 125                                  | 31200                                                               | 103                                                                  | 9921300                                   | 99296.0                                                           |
| NOV      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 16...    | .5                                                           | .15                                                            | 2.85                                                                        | 125                                  | 32100                                                               | 100                                                                  | 9922100                                   | 99323.0                                                           |
| 16...    | .6                                                           | .15                                                            | 2.85                                                                        | 125                                  | 32800                                                               | 101                                                                  | 9922100                                   | 99323.0                                                           |
| DEC      |                                                              |                                                                |                                                                             |                                      |                                                                     |                                                                      |                                           |                                                                   |
| 20...    | 1.4                                                          | .15                                                            | 2.95                                                                        | 125                                  | 36400                                                               | 107                                                                  | 9923000                                   | 99356.0                                                           |
| 20...    | 1.4                                                          | .14                                                            | 2.95                                                                        | 125                                  | 37700                                                               | 108                                                                  | 9923000                                   | 99356.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL -<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA -<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA-<br>TILE,<br>SUS-<br>PENDE<br>(MG/L)<br>(00535) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|---------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| OCT 1998 |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 28...    | 9              | 1510 | 1028                                                                | 81213                                                              | 4.6                                     | 200                                                     | .30                                      | 9                                                                           | 7                                                               | .04                                                             |
| 28...    | 9              | 1525 | 1028                                                                | 81213                                                              | 6.8                                     | 200                                                     | 3.5                                      | 12                                                                          | 7                                                               | .05                                                             |
| NOV      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 17...    | 9              | 1410 | 1028                                                                | 81213                                                              | 1.4                                     | 160                                                     | .30                                      | 4                                                                           | 2                                                               | .09                                                             |
| 17...    | 9              | 1430 | 1028                                                                | 81213                                                              | 3.2                                     | 160                                                     | 4.1                                      | 6                                                                           | 1                                                               | .07                                                             |
| DEC      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 28...    | 9              | 1515 | 1028                                                                | 81213                                                              | 2.6                                     | 60                                                      | .30                                      | 7                                                                           | 3                                                               | .08                                                             |
| 28...    | 9              | 1530 | 1028                                                                | 81213                                                              | 2.8                                     | 60                                                      | 3.0                                      | 3                                                                           | <1                                                              | .05                                                             |
| JAN 1999 |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 25...    | Q              | 1530 | 1028                                                                | 81213                                                              | .08                                     | <5                                                      | --                                       | <1                                                                          | <1                                                              | <.01                                                            |
| 25...    | 9              | 1540 | 1028                                                                | 81213                                                              | 1.4                                     | 70                                                      | 4.2                                      | 3                                                                           | 2                                                               | .06                                                             |
| 25...    | 9              | 1555 | 1028                                                                | 81213                                                              | 1.2                                     | 70                                                      | .30                                      | 4                                                                           | 2                                                               | .06                                                             |
| FEB      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...    | 9              | 1555 | 1028                                                                | 81213                                                              | 2.2                                     | 100                                                     | .30                                      | 3                                                                           | 2                                                               | .05                                                             |
| 22...    | 9              | 1610 | 1028                                                                | 81213                                                              | 2.3                                     | 100                                                     | 3.8                                      | 4                                                                           | 2                                                               | .05                                                             |
| 22...    | R              | 1611 | 1028                                                                | 81213                                                              | 2.4                                     | 100                                                     | 3.8                                      | 4                                                                           | 2                                                               | .05                                                             |
| MAR      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...    | 9              | 1510 | 1028                                                                | 81213                                                              | 1.6                                     | 60                                                      | .30                                      | 5                                                                           | 2                                                               | .03                                                             |
| 22...    | 9              | 1525 | 1028                                                                | 81213                                                              | 1.8                                     | 60                                                      | 4.6                                      | 8                                                                           | 3                                                               | .04                                                             |
| APR      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 19...    | 9              | 1340 | 1028                                                                | 81213                                                              | .29                                     | 50                                                      | .30                                      | 11                                                                          | 6                                                               | .05                                                             |
| 19...    | 9              | 1400 | 1028                                                                | 81213                                                              | .46                                     | 50                                                      | 4.2                                      | 14                                                                          | 7                                                               | .08                                                             |
| 19...    | R              | 1401 | 1028                                                                | 81213                                                              | .41                                     | 50                                                      | 4.2                                      | 14                                                                          | 8                                                               | .07                                                             |
| MAY      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 25...    | Q              | 1400 | 1028                                                                | 81213                                                              | .09                                     | 5                                                       | --                                       | 1                                                                           | <1                                                              | .01                                                             |
| 25...    | 9              | 1420 | 1028                                                                | 81213                                                              | .41                                     | 50                                                      | .30                                      | 12                                                                          | 8                                                               | .03                                                             |
| 25...    | 9              | 1435 | 1028                                                                | 81213                                                              | .35                                     | 50                                                      | 4.2                                      | 14                                                                          | 7                                                               | .03                                                             |
| JUN      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 22...    | 9              | 1355 | 1028                                                                | 81213                                                              | 1.1                                     | 200                                                     | .30                                      | 7                                                                           | 3                                                               | .11                                                             |
| 22...    | 9              | 1410 | 1028                                                                | 81213                                                              | .94                                     | 200                                                     | 3.3                                      | 8                                                                           | 4                                                               | .11                                                             |
| 22...    | R              | 1411 | 1028                                                                | 81213                                                              | 1.1                                     | 200                                                     | 3.3                                      | 6                                                                           | 4                                                               | .10                                                             |
| JUL      |                |      |                                                                     |                                                                    |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 27...    | 9              | 1345 | 1028                                                                | 81213                                                              | 1.9                                     | 240                                                     | .30                                      | <1                                                                          | <1                                                              | .07                                                             |
| 27...    | 9              | 1405 | 1028                                                                | 81213                                                              | 3.1                                     | 240                                                     | 4.3                                      | 3                                                                           | 1                                                               | .07                                                             |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| OCT 1998 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | 1.0                                                                            | .46                                                             | .89                                                   | 20                                                       | 20                                                                | 19                                                               | 21                                                             | 7.7                                                          | .77                                                            |
| 28...    | <.01                                                            | 1.1                                                                            | .45                                                             | .93                                                   | 19                                                       | 18                                                                | 19                                                               | 21                                                             | 7.6                                                          | .77                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 17...    | <.01                                                            | .99                                                                            | .49                                                             | .73                                                   | 13                                                       | 13                                                                | 12                                                               | 26                                                             | 7.4                                                          | .63                                                            |
| 17...    | <.01                                                            | .96                                                                            | .49                                                             | .77                                                   | 13                                                       | 13                                                                | 12                                                               | 28                                                             | 7.4                                                          | .63                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 28...    | <.01                                                            | .53                                                                            | .58                                                             | .82                                                   | 9.9                                                      | 9.9                                                               | 22                                                               | 200                                                            | 6.2                                                          | .77                                                            |
| 28...    | <.01                                                            | .67                                                                            | .55                                                             | .80                                                   | 10                                                       | 9.9                                                               | 22                                                               | 310                                                            | 6.4                                                          | .74                                                            |
| JAN 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                               | .7                                                               | .1                                                             | <.01                                                         | <.01                                                           |
| 25...    | <.01                                                            | .59                                                                            | .55                                                             | .80                                                   | 12                                                       | 10                                                                | 20                                                               | 34                                                             | 3.7                                                          | .72                                                            |
| 25...    | <.01                                                            | .45                                                                            | .55                                                             | .78                                                   | 11                                                       | 10                                                                | 19                                                               | 33                                                             | 3.7                                                          | .71                                                            |
| FEB      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .84                                                                            | .63                                                             | .72                                                   | 15                                                       | 14                                                                | 17                                                               | 38                                                             | 5.9                                                          | .65                                                            |
| 22...    | <.01                                                            | .84                                                                            | .60                                                             | .74                                                   | 14                                                       | 14                                                                | 17                                                               | 44                                                             | 6.0                                                          | .64                                                            |
| 22...    | <.01                                                            | .83                                                                            | .60                                                             | .75                                                   | 15                                                       | 14                                                                | 17                                                               | 44                                                             | 5.9                                                          | .62                                                            |
| MAR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | <.01                                                            | .53                                                                            | .25                                                             | .68                                                   | 10                                                       | 9.9                                                               | 20                                                               | 440                                                            | 1.9                                                          | .62                                                            |
| 22...    | <.01                                                            | .55                                                                            | .23                                                             | .70                                                   | 10                                                       | 10                                                                | 20                                                               | 630                                                            | 1.9                                                          | .62                                                            |
| APR      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 19...    | <.01                                                            | .76                                                                            | .06                                                             | .72                                                   | 12                                                       | 11                                                                | 22                                                               | 1900                                                           | 2.5                                                          | .69                                                            |
| 19...    | <.01                                                            | .64                                                                            | .08                                                             | .69                                                   | 11                                                       | 11                                                                | 22                                                               | 3000                                                           | 2.7                                                          | .64                                                            |
| 19...    | .01                                                             | .72                                                                            | .08                                                             | .70                                                   | 11                                                       | 11                                                                | 21                                                               | 3000                                                           | 2.7                                                          | .65                                                            |
| MAY      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 25...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | <.1                                                      | <.1                                                               | .8                                                               | <.1                                                            | <.01                                                         | <.01                                                           |
| 25...    | <.01                                                            | .94                                                                            | <.02                                                            | .68                                                   | 13                                                       | 11                                                                | 20                                                               | 2600                                                           | 3.1                                                          | .64                                                            |
| 25...    | <.01                                                            | .68                                                                            | .05                                                             | .71                                                   | 11                                                       | 11                                                                | 21                                                               | 3300                                                           | 3.0                                                          | .60                                                            |
| JUN      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 22...    | .03                                                             | 1.1                                                                            | 1.2                                                             | .58                                                   | 24                                                       | 23                                                                | 11                                                               | 48                                                             | 6.6                                                          | .56                                                            |
| 22...    | .04                                                             | 1.1                                                                            | 1.2                                                             | .59                                                   | 23                                                       | 19                                                                | 10                                                               | 49                                                             | 7.0                                                          | .57                                                            |
| 22...    | .03                                                             | 1.2                                                                            | 1.2                                                             | .62                                                   | 19                                                       | 19                                                                | 10                                                               | 49                                                             | 7.0                                                          | .56                                                            |
| JUL      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 27...    | <.01                                                            | 1.3                                                                            | .41                                                             | .59                                                   | 26                                                       | 23                                                                | 13                                                               | 43                                                             | 8.2                                                          | .58                                                            |
| 27...    | .01                                                             | 1.3                                                                            | .41                                                             | .60                                                   | 23                                                       | 22                                                                | 12                                                               | 44                                                             | 8.2                                                          | .59                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>LICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| OCT 1998 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 28...    | 3.75                                                                        | 125                                  | 277                                                                 | 56                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 995                                       | 98306.0                                                           |
| 28...    | 3.75                                                                        | 125                                  | 276                                                                 | 55                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 993                                       | 98306.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 17...    | 4.35                                                                        | 125                                  | 321                                                                 | 52                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 1675                                      | 98324.0                                                           |
| 17...    | 4.35                                                                        | 125                                  | 323                                                                 | 53                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 1676                                      | 98324.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 28...    | 3.25                                                                        | 125                                  | 1050                                                                | 89                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 2844                                      | 98365.0                                                           |
| 28...    | 3.25                                                                        | 125                                  | 1380                                                                | 89                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 2843                                      | 98365.0                                                           |
| JAN 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 25...    | --                                                                          | 125                                  | 2.8                                                                 | 3.9                                                                  | 10.00                                                      | 80.000                                                       | 100.00                                              | --                                          | 3418                                      | 99027.0                                                           |
| 25...    | 4.45                                                                        | 125                                  | 457                                                                 | 83                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 3414                                      | 99027.0                                                           |
| 25...    | 4.45                                                                        | 125                                  | 455                                                                 | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 3413                                      | 99027.0                                                           |
| FEB      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 4.15                                                                        | 125                                  | 420                                                                 | 72                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4118.00                                   | 99055.0                                                           |
| 22...    | 4.15                                                                        | 125                                  | 435                                                                 | 71                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4119.00                                   | 99055.0                                                           |
| 22...    | 4.15                                                                        | 125                                  | 435                                                                 | 71                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 4123.00                                   | 99055.0                                                           |
| MAR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 4.85                                                                        | 125                                  | 1850                                                                | 85                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4984.00                                   | 99084.0                                                           |
| 22...    | 4.85                                                                        | 125                                  | 2430                                                                | 85                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 4985.00                                   | 99084.0                                                           |
| APR      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 19...    | 4.45                                                                        | 125                                  | 6860                                                                | 88                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 5869.00                                   | 99112.0                                                           |
| 19...    | 4.45                                                                        | 125                                  | 10100                                                               | 88                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 5868.00                                   | 99112.0                                                           |
| 19...    | 4.45                                                                        | 125                                  | 10100                                                               | 88                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 5872.00                                   | 99112.0                                                           |
| MAY      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 25...    | --                                                                          | 125                                  | 2.4                                                                 | 2.8                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 6966.00                                   | 99148.0                                                           |
| 25...    | 4.45                                                                        | 125                                  | 8790                                                                | 81                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 6961.00                                   | 99148.0                                                           |
| 25...    | 4.45                                                                        | 125                                  | 10800                                                               | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 6962.00                                   | 99148.0                                                           |
| JUN      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 22...    | 3.65                                                                        | 125                                  | 447                                                                 | 43                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 7846.00                                   | 99176.0                                                           |
| 22...    | 3.65                                                                        | 125                                  | 441                                                                 | 43                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 7847.00                                   | 99176.0                                                           |
| 22...    | 3.65                                                                        | 125                                  | 441                                                                 | 43                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 7850.00                                   | 99176.0                                                           |
| JUL      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 27...    | 4.65                                                                        | 125                                  | 355                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 8804.00                                   | 99215.0                                                           |
| 27...    | 4.65                                                                        | 125                                  | 353                                                                 | 49                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 8805.00                                   | 99215.0                                                           |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN  
 WATER-QUALITY DATA

| DATE     | MEDIUM<br>CODE | TIME | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SAM-<br>PLING<br>DEPTH<br>(M)<br>(00098) | RESIDUE<br>TOTAL<br>AT 105<br>DEG. C,<br>SUS-<br>PENDE<br>(MG/L)<br>(00530) | RESIDUE<br>VOLA-<br>TILE,<br>SUS-<br>PENDE<br>(MG/L)<br>(00535) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|----------|----------------|------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|
| AUG 1999 |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 23...    | Q              | 1355 | 1028                                                               | 81213                                                             | .19                                     | <5                                                      | --                                       | <1                                                                          | <1                                                              | .01                                                             |
| 23...    | 9              | 1410 | 1028                                                               | 81213                                                             | 2.0                                     | 240                                                     | .30                                      | 1                                                                           | 2                                                               | .04                                                             |
| 23...    | 9              | 1420 | 1028                                                               | 81213                                                             | 1.9                                     | 240                                                     | 4.4                                      | 2                                                                           | 1                                                               | .05                                                             |
| SEP      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 23...    | 9              | 1330 | 1028                                                               | 81213                                                             | 2.5                                     | 200                                                     | .30                                      | <1                                                                          | <1                                                              | .05                                                             |
| 23...    | 9              | 1350 | 1028                                                               | 81213                                                             | 4.5                                     | 200                                                     | 4.1                                      | 6                                                                           | 2                                                               | .06                                                             |
| OCT      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 19...    | 9              | 1420 | 1028                                                               | 81213                                                             | 4.0                                     | 320                                                     | .30                                      | <1                                                                          | 4                                                               | .06                                                             |
| 19...    | 9              | 1445 | 1028                                                               | 81213                                                             | 4.6                                     | 320                                                     | 3.7                                      | 7                                                                           | 5                                                               | .06                                                             |
| NOV      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 16...    | 9              | 1335 | 1028                                                               | 81213                                                             | 3.0                                     | 140                                                     | .30                                      | 4                                                                           | 3                                                               | .06                                                             |
| 16...    | R              | 1336 | 1028                                                               | 81213                                                             | 2.9                                     | 160                                                     | .30                                      | 5                                                                           | 3                                                               | .05                                                             |
| 16...    | 9              | 1355 | 1028                                                               | 81213                                                             | 2.9                                     | 160                                                     | 4.3                                      | 6                                                                           | 3                                                               | .07                                                             |
| DEC      |                |      |                                                                    |                                                                   |                                         |                                                         |                                          |                                                                             |                                                                 |                                                                 |
| 20...    | 9              | 1345 | 1028                                                               | 81213                                                             | 2.7                                     | 60                                                      | .30                                      | 4                                                                           | 1                                                               | .06                                                             |
| 20...    | 9              | 1410 | 1028                                                               | 81213                                                             | 2.8                                     | 60                                                      | 4.2                                      | 3                                                                           | <1                                                              | .08                                                             |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | CARBON,<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L<br>AS C)<br>(00681) | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SI02)<br>(00955) | PHOS-<br>PHORUS<br>ORTHO<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|----------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|
| AUG 1999 |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 23...    | <.01                                                            | <.20                                                                           | <.02                                                            | <.02                                                  | .8                                                       | .6                                                                | .7                                                               | <.1                                                            | .01                                                          | <.01                                                           |
| 23...    | <.01                                                            | 1.1                                                                            | .47                                                             | .55                                                   | 25                                                       | 24                                                                | 8.3                                                              | 28                                                             | 7.2                                                          | .48                                                            |
| 23...    | <.01                                                            | 1.3                                                                            | .48                                                             | .56                                                   | 26                                                       | 25                                                                | 8.1                                                              | 28                                                             | 7.2                                                          | .48                                                            |
| SEP      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 23...    | <.01                                                            | .89                                                                            | .43                                                             | .48                                                   | 23                                                       | 23                                                                | 9.3                                                              | 32                                                             | 7.0                                                          | .47                                                            |
| 23...    | <.01                                                            | .90                                                                            | .42                                                             | .53                                                   | 23                                                       | 23                                                                | 9.3                                                              | 32                                                             | 6.9                                                          | .46                                                            |
| OCT      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 19...    | .01                                                             | 1.4                                                                            | .32                                                             | .75                                                   | 30                                                       | 29                                                                | 9.3                                                              | 20                                                             | 9.0                                                          | .67                                                            |
| 19...    | .01                                                             | 1.4                                                                            | .31                                                             | .76                                                   | 29                                                       | 29                                                                | 9.2                                                              | 20                                                             | 9.0                                                          | .67                                                            |
| NOV      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 16...    | <.01                                                            | .79                                                                            | .58                                                             | .64                                                   | 20                                                       | 20                                                                | 14                                                               | 37                                                             | 8.8                                                          | .62                                                            |
| 16...    | .01                                                             | .88                                                                            | .56                                                             | .65                                                   | 20                                                       | 20                                                                | 14                                                               | 36                                                             | 8.8                                                          | .62                                                            |
| 16...    | .01                                                             | .82                                                                            | .57                                                             | .65                                                   | 20                                                       | 20                                                                | 14                                                               | 37                                                             | 8.7                                                          | .63                                                            |
| DEC      |                                                                 |                                                                                |                                                                 |                                                       |                                                          |                                                                   |                                                                  |                                                                |                                                              |                                                                |
| 20...    | <.01                                                            | .62                                                                            | .66                                                             | .68                                                   | 12                                                       | 12                                                                | 21                                                               | 200                                                            | 5.6                                                          | .71                                                            |
| 20...    | <.01                                                            | .71                                                                            | .64                                                             | .65                                                   | 12                                                       | 12                                                                | 21                                                               | 370                                                            | 6.0                                                          | .66                                                            |

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN

## WATER-QUALITY DATA

| DATE     | DEPTH<br>TO BOT.<br>FROM<br>SURFACE<br>AT SAMP<br>LOC.<br>METERS<br>(82903) | SAMPLER<br>TYPE<br>(CODE)<br>(84164) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ANC<br>UNFLTRD<br>TIT 4.5<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | BLANK,<br>TYPE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99100) | BLANK,<br>SOURCE<br>OF<br>SOLU-<br>TION<br>(CODE)<br>(99101) | BLANK,<br>TYPE<br>OF<br>SAMPLE<br>(CODE)<br>(99102) | REP-<br>LICATE<br>TYPE<br>(CODE)<br>(99105) | OCALA<br>SAMPLE<br>LOGIN<br>ID<br>(99898) | JULIAN<br>DATE OF<br>OCALA<br>SAMPLE<br>LOGIN<br>YYDDD<br>(99899) |
|----------|-----------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|-------------------------------------------|-------------------------------------------------------------------|
| AUG 1999 |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 23...    | --                                                                          | 125                                  | 2.9                                                                 | 3.2                                                                  | 10.00                                                      | 80.00                                                        | 100.00                                              | --                                          | 9887.00                                   | 99238.0                                                           |
| 23...    | 4.75                                                                        | 125                                  | 292                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9882.00                                   | 99238.0                                                           |
| 23...    | 4.75                                                                        | 125                                  | 286                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9883.00                                   | 99238.0                                                           |
| SEP      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 23...    | 4.35                                                                        | 125                                  | 321                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9920300                                   | 99270.0                                                           |
| 23...    | 4.35                                                                        | 125                                  | 324                                                                 | 45                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9920300                                   | 99270.0                                                           |
| OCT      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 19...    | 3.95                                                                        | 125                                  | 241                                                                 | 48                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9921300                                   | 99296.0                                                           |
| 19...    | 3.95                                                                        | 125                                  | 242                                                                 | 48                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9921300                                   | 99296.0                                                           |
| NOV      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 16...    | 4.65                                                                        | 125                                  | 365                                                                 | 63                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9922100                                   | 99323.0                                                           |
| 16...    | 4.65                                                                        | 125                                  | 362                                                                 | 63                                                                   | --                                                         | --                                                           | --                                                  | 30.00                                       | 9922100                                   | 99323.0                                                           |
| 16...    | 4.65                                                                        | 125                                  | 362                                                                 | 63                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9922100                                   | 99323.0                                                           |
| DEC      |                                                                             |                                      |                                                                     |                                                                      |                                                            |                                                              |                                                     |                                             |                                           |                                                                   |
| 20...    | 4.55                                                                        | 125                                  | 1050                                                                | 83                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9923000                                   | 99356.0                                                           |
| 20...    | 4.55                                                                        | 125                                  | 1620                                                                | 82                                                                   | --                                                         | --                                                           | --                                                  | --                                          | 9923000                                   | 99356.0                                                           |



**Back to Start**

# **APPENDIX G**

**Summary of Surface Water Chemistry Data  
Collected at Fixed Stations by USGS**





**Back to Start**

# **APPENDIX H**

## **USGS Light Profiles**

**January Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/REMARKS)</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|------------------------------------------------|
| CH-6        | 1/25/99     | 1033                  | 2438                                | N/A                       | N/A full sun                                   |
| CH-6        | 1/25/99     | 1033                  | N/A                                 | 0.1                       | 2300                                           |
| CH-6        | 1/25/99     | 1033                  | N/A                                 | 1                         | 750                                            |
| CH-6        | 1/25/99     | 1033                  | N/A                                 | 1.9                       | 302                                            |
| CH-6        | 1/25/99     | 1033                  | N/A                                 | 2.7                       | 168                                            |
| CH-6        | 1/25/99     | 1033                  | N/A                                 | 3.5                       | 90 bottom                                      |
| RM 3.95     | 1/25/99     | 1208                  | 2500                                | N/A                       | N/A                                            |
| RM 3.95     | 1/25/99     | 1208                  | N/A                                 | 0.1                       | 1800 full sun                                  |
| RM 3.95     | 1/25/99     | 1208                  | N/A                                 | 0.7                       | 800                                            |
| RM 3.95     | 1/25/99     | 1208                  | N/A                                 | 1.4                       | 370                                            |
| RM 3.95     | 1/25/99     | 1208                  | N/A                                 | 2                         | 185                                            |
| RM 3.95     | 1/25/99     | 1208                  | N/A                                 | 2.7                       | 80 bottom                                      |
| RM 10.2     | 1/25/99     | 1325                  | 2475                                | N/A                       | N/A full sun                                   |
| RM 10.2     | 1/25/99     | 1325                  | N/A                                 | 0.1                       | 1350                                           |
| RM 10.2     | 1/25/99     | 1325                  | N/A                                 | 0.6                       | 540                                            |
| RM 10.2     | 1/25/99     | 1325                  | N/A                                 | 1.1                       | 166                                            |
| RM 10.2     | 1/25/99     | 1325                  | N/A                                 | 1.7                       | 50.5                                           |
| RM 10.2     | 1/25/99     | 1325                  | N/A                                 | 2.2                       | 25                                             |
| RM 14.82    | 1/25/99     | 1510                  | 2300                                | N/A                       | N/A                                            |
| RM 14.82    | 1/25/99     | 1510                  | N/A                                 | 0.1                       | 1400 full sun                                  |
| RM 14.82    | 1/25/99     | 1510                  | N/A                                 | 0.6                       | 420                                            |
| RM 14.82    | 1/25/99     | 1510                  | N/A                                 | 1.1                       | 180                                            |
| RM 14.82    | 1/25/99     | 1510                  | N/A                                 | 1.7                       | 53                                             |
| RM 14.82    | 1/25/99     | 1510                  | N/A                                 | 2.25                      | 23                                             |
| RM 18.95    | 1/25/99     | 1645                  | 1741                                | N/A                       | N/A full sun                                   |
| RM 18.95    | 1/25/99     | 1645                  | N/A                                 | 0.1                       | 585 low tide                                   |
| RM 18.95    | 1/25/99     | 1645                  | N/A                                 | 0.4                       | 165                                            |
| RM 18.95    | 1/25/99     | 1645                  | N/A                                 | 0.7                       | 55                                             |
| RM 18.95    | 1/25/99     | 1645                  | N/A                                 | 1                         | 40                                             |
| RM 18.95    | 1/25/99     | 1645                  | N/A                                 | 1.3                       | 17.4                                           |

**February Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 2/22/99     | 1020                  | 2610                                | N/A                       | N/A                                    |                |
| CH-6        | 2/22/99     | 1020                  | N/A                                 | 0.1                       | 1600                                   | clear skies    |
| CH-6        | 2/22/99     | 1020                  | N/A                                 | 0.9                       | 740                                    | choppy and     |
| CH-6        | 2/22/99     | 1020                  | N/A                                 | 1.8                       | 290                                    | cold           |
| CH-6        | 2/22/99     | 1020                  | N/A                                 | 2.6                       | 140                                    |                |
| CH-6        | 2/22/99     | 1020                  | N/A                                 | 3.5                       | 80                                     |                |
| RM 3.95     | 2/22/99     | 1152                  | 2530                                | N/A                       | N/A                                    | clear          |
| RM 3.95     | 2/22/99     | 1152                  | N/A                                 | 0.1                       | 1600                                   | sky            |
| RM 3.95     | 2/22/99     | 1152                  | N/A                                 | 0.8                       | 630                                    |                |
| RM 3.95     | 2/22/99     | 1152                  | N/A                                 | 1.4                       | 290                                    |                |
| RM 3.95     | 2/22/99     | 1152                  | N/A                                 | 2                         | 140                                    |                |
| RM 3.95     | 2/22/99     | 1152                  | N/A                                 | 2.6                       | 55                                     |                |
| RM 10.2     | 2/22/99     | 1317                  | 2540                                | N/A                       | N/A                                    | clear          |
| RM 10.2     | 2/22/99     | 1317                  | N/A                                 | 0.1                       | 1700                                   | sky            |
| RM 10.2     | 2/22/99     | 1317                  | N/A                                 | 0.6                       | 516                                    | 0.5ft          |
| RM 10.2     | 2/22/99     | 1317                  | N/A                                 | 1.1                       | 181                                    | chop           |
| RM 10.2     | 2/22/99     | 1317                  | N/A                                 | 1.6                       | 57.1                                   |                |
| RM 10.2     | 2/22/99     | 1317                  | N/A                                 | 2.1                       | 25.4                                   |                |
| RM 14.82    | 2/22/99     | 1535                  | 2280                                | N/A                       | N/A                                    | clear sky      |
| RM 14.82    | 2/22/99     | 1535                  | N/A                                 | 0.1                       | 1300                                   |                |
| RM 14.82    | 2/22/99     | 1535                  | N/A                                 | 0.5                       | 510                                    |                |
| RM 14.82    | 2/22/99     | 1535                  | N/A                                 | 0.9                       | 145                                    |                |
| RM 14.82    | 2/22/99     | 1535                  | N/A                                 | 1.3                       | 57                                     |                |
| RM 14.82    | 2/22/99     | 1535                  | N/A                                 | 1.7                       | 22.8                                   |                |
| RM 18.95    | 2/22/99     | 1713                  | 1530                                | N/A                       | N/A                                    | full sun       |
| RM 18.95    | 2/22/99     | 1713                  | N/A                                 | 0.1                       | 430                                    | coarse sand    |
| RM 18.95    | 2/22/99     | 1713                  | N/A                                 | 0.3                       | 240                                    | floating on    |
| RM 18.95    | 2/22/99     | 1713                  | N/A                                 | 0.7                       | 110                                    | the river      |
| RM 18.95    | 2/22/99     | 1713                  | N/A                                 | 1.1                       | 36                                     |                |
| RM 18.95    | 2/22/99     | 1713                  | N/A                                 | 1.5                       | 15                                     |                |

**March Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 3/22/99     | 1035                  | 2520                                | N/A                       | N/A                                    | full sun       |
| CH-6        | 3/22/99     | 1035                  | N/A                                 | 0.1                       | 2000                                   | yellow/brown   |
| CH-6        | 3/22/99     | 1035                  | N/A                                 | 1                         | 685                                    | hue to water   |
| CH-6        | 3/22/99     | 1035                  | N/A                                 | 1.9                       | 260                                    |                |
| CH-6        | 3/22/99     | 1035                  | N/A                                 | 2.8                       | 86                                     |                |
| CH-6        | 3/22/99     | 1035                  | N/A                                 | 3.7                       | 37                                     |                |
| RM 3.95     | 3/22/99     | 1152                  | 2620                                | N/A                       | N/A                                    | full sun       |
| RM 3.95     | 3/22/99     | 1152                  | N/A                                 | 0.1                       | 1950                                   |                |
| RM 3.95     | 3/22/99     | 1152                  | N/A                                 | 0.7                       | 780                                    |                |
| RM 3.95     | 3/22/99     | 1152                  | N/A                                 | 1.4                       | 280                                    |                |
| RM 3.95     | 3/22/99     | 1152                  | N/A                                 | 2.1                       | 92                                     |                |
| RM 3.95     | 3/22/99     | 1152                  | N/A                                 | 2.8                       | 26                                     |                |
| RM 10.2     | 3/22/99     | 1313                  | 2610                                | N/A                       | N/A                                    | full sun       |
| RM 10.2     | 3/22/99     | 1313                  | N/A                                 | 0.1                       | 1910                                   | just past      |
| RM 10.2     | 3/22/99     | 1313                  | N/A                                 | 0.7                       | 690                                    | high tide      |
| RM 10.2     | 3/22/99     | 1313                  | N/A                                 | 1.4                       | 270                                    |                |
| RM 10.2     | 3/22/99     | 1313                  | N/A                                 | 2.1                       | 98                                     |                |
| RM 10.2     | 3/22/99     | 1313                  | N/A                                 | 2.9                       | 26                                     |                |
| RM 14.82    | 3/22/99     | 1453                  | 2450                                | N/A                       | N/A                                    | full sun       |
| RM 14.82    | 3/22/99     | 1453                  | N/A                                 | 0.1                       | 1710                                   | flood tide     |
| RM 14.82    | 3/22/99     | 1453                  | N/A                                 | 0.7                       | 525                                    |                |
| RM 14.82    | 3/22/99     | 1453                  | N/A                                 | 1.4                       | 210                                    |                |
| RM 14.82    | 3/22/99     | 1453                  | N/A                                 | 2.1                       | 73                                     |                |
| RM 14.82    | 3/22/99     | 1453                  | N/A                                 | 2.8                       | 24.5                                   |                |
| RM 18.95    | 3/22/99     | 1619                  | 2030                                | N/A                       | N/A                                    | full sun       |
| RM 18.95    | 3/22/99     | 1619                  | N/A                                 | 0.1                       | 1100                                   | flood tide     |
| RM 18.95    | 3/22/99     | 1619                  | N/A                                 | 0.5                       | 550                                    |                |
| RM 18.95    | 3/22/99     | 1619                  | N/A                                 | 1                         | 240                                    |                |
| RM 18.95    | 3/22/99     | 1619                  | N/A                                 | 1.5                       | 99                                     |                |
| RM 18.95    | 3/22/99     | 1619                  | N/A                                 | 2                         | 39                                     |                |

**April Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/REMARKS)</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|------------------------------------------------|
| CH-6        | 4/19/99     | 910                   | 2330                                | N/A                       | N/A                                            |
| CH-6        | 4/19/99     | 910                   | N/A                                 | 0.1                       | 1700 full sun                                  |
| CH-6        | 4/19/99     | 910                   | N/A                                 | 1                         | 830 light haze                                 |
| CH-6        | 4/19/99     | 910                   | N/A                                 | 1.8                       | 390                                            |
| CH-6        | 4/19/99     | 910                   | N/A                                 | 2.7                       | 175                                            |
| CH-6        | 4/19/99     | 910                   | N/A                                 | 3.5                       | 63                                             |
| RM 3.95     | 4/19/99     | 1022                  | 2790                                | N/A                       | N/A                                            |
| RM 3.95     | 4/19/99     | 1022                  | N/A                                 | 0.1                       | 2150 full sun                                  |
| RM 3.95     | 4/19/99     | 1022                  | N/A                                 | 0.7                       | 1130 scum on                                   |
| RM 3.95     | 4/19/99     | 1022                  | N/A                                 | 1.3                       | 660 the surface                                |
| RM 3.95     | 4/19/99     | 1022                  | N/A                                 | 2                         | 272                                            |
| RM 3.95     | 4/19/99     | 1022                  | N/A                                 | 2.7                       | 130                                            |
| RM 10.2     | 4/19/99     | 1137                  | 2624                                | N/A                       | N/A                                            |
| RM 10.2     | 4/19/99     | 1137                  | N/A                                 | 0.1                       | 1800 full sun                                  |
| RM 10.2     | 4/19/99     | 1137                  | N/A                                 | 0.9                       | 810                                            |
| RM 10.2     | 4/19/99     | 1137                  | N/A                                 | 1.7                       | 280                                            |
| RM 10.2     | 4/19/99     | 1137                  | N/A                                 | 2.6                       | 84                                             |
| RM 10.2     | 4/19/99     | 1137                  | N/A                                 | 3.5                       | 40                                             |
| RM 14.82    | 4/19/99     | 1325                  | 2570                                | N/A                       | N/A full sun                                   |
| RM 14.82    | 4/19/99     | 1325                  | N/A                                 | 0.1                       | 1800                                           |
| RM 14.82    | 4/19/99     | 1325                  | N/A                                 | 0.8                       | 595                                            |
| RM 14.82    | 4/19/99     | 1325                  | N/A                                 | 1.5                       | 220                                            |
| RM 14.82    | 4/19/99     | 1325                  | N/A                                 | 2.2                       | 75                                             |
| RM 14.82    | 4/19/99     | 1325                  | N/A                                 | 2.9                       | 26                                             |
| RM 18.95    | 4/19/99     | 1458                  | 2315                                | N/A                       | N/A full sun                                   |
| RM 18.95    | 4/19/99     | 1458                  | N/A                                 | 0.1                       | 1660                                           |
| RM 18.95    | 4/19/99     | 1458                  | N/A                                 | 0.4                       | 1070                                           |
| RM 18.95    | 4/19/99     | 1458                  | N/A                                 | 0.8                       | 617                                            |
| RM 18.95    | 4/19/99     | 1458                  | N/A                                 | 1.2                       | 380                                            |
| RM 18.95    | 4/19/99     | 1458                  | N/A                                 | 1.6                       | 187                                            |

**May Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 5/25/99     | 950                   | 2940                                | N/A                       | N/A                                    |                |
| CH-6        | 5/25/99     | 950                   | N/A                                 | 0.1                       | 1900                                   | partly         |
| CH-6        | 5/25/99     | 950                   | N/A                                 | 1                         | 1040                                   | cloudy         |
| CH-6        | 5/25/99     | 950                   | N/A                                 | 2                         | 440                                    |                |
| CH-6        | 5/25/99     | 950                   | N/A                                 | 3                         | 203                                    |                |
| CH-6        | 5/25/99     | 950                   | N/A                                 | 4.1                       | 124                                    |                |
| RM 3.95     | 5/25/99     | 1105                  | 2680                                | N/A                       | N/A                                    |                |
| RM 3.95     | 5/25/99     | 1105                  | N/A                                 | 0.1                       | 1700                                   | full sun       |
| RM 3.95     | 5/25/99     | 1105                  | N/A                                 | 0.9                       | 695                                    | choppy         |
| RM 3.95     | 5/25/99     | 1105                  | N/A                                 | 1.6                       | 185                                    |                |
| RM 3.95     | 5/25/99     | 1105                  | N/A                                 | 2.3                       | 73                                     | yellow/brown   |
| RM 3.95     | 5/25/99     | 1105                  | N/A                                 | 3                         | 27                                     | water color    |
| RM 10.2     | 5/25/99     | 1210                  | 2780                                | N/A                       | N/A                                    |                |
| RM 10.2     | 5/25/99     | 1210                  | N/A                                 | 0.1                       | 1980                                   | full sun       |
| RM 10.2     | 5/25/99     | 1210                  | N/A                                 | 0.9                       | 615                                    |                |
| RM 10.2     | 5/25/99     | 1210                  | N/A                                 | 1.6                       | 162                                    |                |
| RM 10.2     | 5/25/99     | 1210                  | N/A                                 | 2.3                       | 75                                     |                |
| RM 10.2     | 5/25/99     | 1210                  | N/A                                 | 3                         | 27.8                                   |                |
| RM 14.82    | 5/25/99     | 1348                  | 3000                                | N/A                       | N/A                                    |                |
| RM 14.82    | 5/25/99     | 1348                  | N/A                                 | 0.1                       | 2200                                   | full sun       |
| RM 14.82    | 5/25/99     | 1348                  | N/A                                 | 1.2                       | 360                                    |                |
| RM 14.82    | 5/25/99     | 1348                  | N/A                                 | 1.9                       | 140                                    |                |
| RM 14.82    | 5/25/99     | 1348                  | N/A                                 | 2.6                       | 53                                     |                |
| RM 14.82    | 5/25/99     | 1348                  | N/A                                 | 3.2                       | 30                                     |                |
| RM 18.95    | 5/25/99     | 1519                  | 2275                                | N/A                       | N/A                                    |                |
| RM 18.95    | 5/25/99     | 1519                  | N/A                                 | 0.1                       | 1780                                   | full sun       |
| RM 18.95    | 5/25/99     | 1519                  | N/A                                 | 0.6                       | 700                                    |                |
| RM 18.95    | 5/25/99     | 1519                  | N/A                                 | 1.2                       | 330                                    |                |
| RM 18.95    | 5/25/99     | 1519                  | N/A                                 | 1.8                       | 125                                    |                |
| RM 18.95    | 5/25/99     | 1519                  | N/A                                 | 2.4                       | 62                                     |                |

**June Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR<br/>(<math>\mu\text{mol/s/m}^2</math>)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(<math>\mu\text{mol/s/}</math></b> | <b>REMARKS</b>          |
|-------------|-------------|-----------------------|----------------------------------------------------------------|---------------------------|--------------------------------------------------------------|-------------------------|
| CH-6        | 6/22/99     | 911                   | 2640                                                           | N/A                       | N/A                                                          |                         |
| CH-6        | 6/22/99     | 911                   | N/A                                                            | 0.1                       | 1680                                                         | scattered<br>clouds     |
| CH-6        | 6/22/99     | 911                   | N/A                                                            | 1                         | 511                                                          |                         |
| CH-6        | 6/22/99     | 911                   | N/A                                                            | 2                         | 260                                                          |                         |
| CH-6        | 6/22/99     | 911                   | N/A                                                            | 3                         | 130                                                          |                         |
| CH-6        | 6/22/99     | 911                   | N/A                                                            | 4                         | 78                                                           |                         |
| RM 3.95     | 6/22/99     | 1035                  | 2110                                                           | N/A                       | N/A                                                          | light<br>cloud<br>cover |
| RM 3.95     | 6/22/99     | 1035                  | N/A                                                            | 0.1                       | 905                                                          |                         |
| RM 3.95     | 6/22/99     | 1035                  | N/A                                                            | 0.7                       | 330                                                          |                         |
| RM 3.95     | 6/22/99     | 1035                  | N/A                                                            | 1.4                       | 167                                                          |                         |
| RM 3.95     | 6/22/99     | 1035                  | N/A                                                            | 2.3                       | 76                                                           |                         |
| RM 3.95     | 6/22/99     | 1035                  | N/A                                                            | 3                         | 65                                                           |                         |
| RM 10.2     | 6/22/99     | 1210                  | 3675                                                           | N/A                       | N/A                                                          | scattered<br>clouds     |
| RM 10.2     | 6/22/99     | 1210                  | N/A                                                            | 0.1                       | 2100                                                         |                         |
| RM 10.2     | 6/22/99     | 1210                  | N/A                                                            | 1                         | 65.6                                                         |                         |
| RM 10.2     | 6/22/99     | 1210                  | N/A                                                            | 1.9                       | 6.25                                                         |                         |
| RM 10.2     | 6/22/99     | 1210                  | N/A                                                            | 2.8                       | 0.99                                                         |                         |
| RM 10.2     | 6/22/99     | 1210                  | N/A                                                            | 3.75                      | 0.23                                                         |                         |
| RM 14.82    | 6/22/99     | 1323                  | 2240                                                           | N/A                       | N/A                                                          | scattered<br>clouds     |
| RM 14.82    | 6/22/99     | 1323                  | N/A                                                            | 0.1                       | 1080                                                         |                         |
| RM 14.82    | 6/22/99     | 1323                  | N/A                                                            | 0.3                       | 375                                                          |                         |
| RM 14.82    | 6/22/99     | 1323                  | N/A                                                            | 0.6                       | 124                                                          |                         |
| RM 14.82    | 6/22/99     | 1323                  | N/A                                                            | 0.9                       | 52                                                           |                         |
| RM 14.82    | 6/22/99     | 1323                  | N/A                                                            | 1.2                       | 22.4                                                         |                         |
| RM 18.95    | 6/22/99     | 1515                  | 1335                                                           | N/A                       | N/A                                                          | cloudy                  |
| RM 18.95    | 6/22/99     | 1515                  | N/A                                                            | 0.1                       | 470                                                          |                         |
| RM 18.95    | 6/22/99     | 1515                  | N/A                                                            | 0.25                      | 149                                                          |                         |
| RM 18.95    | 6/22/99     | 1515                  | N/A                                                            | 0.5                       | 70                                                           |                         |
| RM 18.95    | 6/22/99     | 1515                  | N/A                                                            | 0.75                      | 30.8                                                         |                         |
| RM 18.95    | 6/22/99     | 1515                  | N/A                                                            | 1                         | 13.2                                                         |                         |

**July Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/REMARKS)</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|------------------------------------------------|
| CH-6        | 7/27/99     | 850                   | 2358                                | N/A                       | N/A                                            |
| CH-6        | 7/27/99     | 850                   | N/A                                 | 0.1                       | 1297 clear                                     |
| CH-6        | 7/27/99     | 850                   | N/A                                 | 0.5                       | 440                                            |
| CH-6        | 7/27/99     | 850                   | N/A                                 | 0.9                       | 302                                            |
| CH-6        | 7/27/99     | 850                   | N/A                                 | 1.3                       | 60.1                                           |
| CH-6        | 7/27/99     | 850                   | N/A                                 | 1.7                       | 23.5                                           |
| RM 3.95     | 7/27/99     | 1010                  | 2585                                | N/A                       | N/A                                            |
| RM 3.95     | 7/27/99     | 1010                  | N/A                                 | 0.1                       | 1310                                           |
| RM 3.95     | 7/27/99     | 1010                  | N/A                                 | 0.6                       | 212                                            |
| RM 3.95     | 7/27/99     | 1010                  | N/A                                 | 1                         | 91.5                                           |
| RM 3.95     | 7/27/99     | 1010                  | N/A                                 | 1.4                       | 52.9                                           |
| RM 3.95     | 7/27/99     | 1010                  | N/A                                 | 1.75                      | 25.8                                           |
| RM 10.2     | 7/27/99     | 1124                  | 846                                 | N/A                       | N/A                                            |
| RM 10.2     | 7/27/99     | 1124                  | N/A                                 | 0.1                       | 200 cloudy                                     |
| RM 10.2     | 7/27/99     | 1124                  | N/A                                 | 0.25                      | 44 light rain                                  |
| RM 10.2     | 7/27/99     | 1124                  | N/A                                 | 0.5                       | 15.5                                           |
| RM 10.2     | 7/27/99     | 1124                  | N/A                                 | 0.75                      | 4.9                                            |
| RM 10.2     | 7/27/99     | 1124                  | N/A                                 | 1                         | 2                                              |
| RM 14.82    | 7/27/99     | 1305                  | 3020                                | N/A                       | N/A                                            |
| RM 14.82    | 7/27/99     | 1305                  | N/A                                 | 0.1                       | 1217                                           |
| RM 14.82    | 7/27/99     | 1305                  | N/A                                 | 0.25                      | 613                                            |
| RM 14.82    | 7/27/99     | 1305                  | N/A                                 | 0.45                      | 204                                            |
| RM 14.82    | 7/27/99     | 1305                  | N/A                                 | 0.6                       | 75                                             |
| RM 14.82    | 7/27/99     | 1305                  | N/A                                 | 0.8                       | 30.2                                           |
| RM 18.95    | 7/27/99     | 1453                  | 2412                                | N/A                       | N/A                                            |
| RM 18.95    | 7/27/99     | 1453                  | N/A                                 | 0.1                       | 1090                                           |
| RM 18.95    | 7/27/99     | 1453                  | N/A                                 | 0.3                       | 538                                            |
| RM 18.95    | 7/27/99     | 1453                  | N/A                                 | 0.45                      | 181                                            |
| RM 18.95    | 7/27/99     | 1453                  | N/A                                 | 0.6                       | 77                                             |
| RM 18.95    | 7/27/99     | 1453                  | N/A                                 | 0.75                      | 24                                             |



**August Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 8/23/99     | 935                   | 2570                                | N/A                       | N/A                                    | dark-brown     |
| CH-6        | 8/23/99     | 935                   | N/A                                 | 0.1                       | 1140                                   | color          |
| CH-6        | 8/23/99     | 935                   | N/A                                 | 0.5                       | 525                                    | clouds         |
| CH-6        | 8/23/99     | 935                   | N/A                                 | 1                         | 162                                    |                |
| CH-6        | 8/23/99     | 935                   | N/A                                 | 1.5                       | 71                                     |                |
| CH-6        | 8/23/99     | 935                   | N/A                                 | 2                         | 25.5                                   |                |
| RM 3.95     | 8/23/99     | 1052                  | 3016                                | N/A                       | N/A                                    | partly         |
| RM 3.95     | 8/23/99     | 1052                  | N/A                                 | 0.1                       | 1690                                   | cloudy         |
| RM 3.95     | 8/23/99     | 1052                  | N/A                                 | 0.5                       | 434                                    |                |
| RM 3.95     | 8/23/99     | 1052                  | N/A                                 | 0.8                       | 170                                    |                |
| RM 3.95     | 8/23/99     | 1052                  | N/A                                 | 1.1                       | 72                                     |                |
| RM 3.95     | 8/23/99     | 1052                  | N/A                                 | 1.4                       | 30                                     |                |
| RM 10.2     | 8/23/99     | 1215                  | 1711                                | N/A                       | N/A                                    | cloudy         |
| RM 10.2     | 8/23/99     | 1215                  | N/A                                 | 0.1                       | 690                                    |                |
| RM 10.2     | 8/23/99     | 1215                  | N/A                                 | 0.3                       | 190                                    |                |
| RM 10.2     | 8/23/99     | 1215                  | N/A                                 | 0.5                       | 95                                     |                |
| RM 10.2     | 8/23/99     | 1215                  | N/A                                 | 0.7                       | 36                                     |                |
| RM 10.2     | 8/23/99     | 1215                  | N/A                                 | 0.9                       | 17                                     |                |
| RM 14.82    | 8/23/99     | 1339                  | 1472                                | N/A                       | N/A                                    | cloudy         |
| RM 14.82    | 8/23/99     | 1339                  | N/A                                 | 0.1                       | 447                                    |                |
| RM 14.82    | 8/23/99     | 1339                  | N/A                                 | 0.3                       | 140                                    |                |
| RM 14.82    | 8/23/99     | 1339                  | N/A                                 | 0.5                       | 55.8                                   |                |
| RM 14.82    | 8/23/99     | 1339                  | N/A                                 | 0.7                       | 23.9                                   |                |
| RM 14.82    | 8/23/99     | 1339                  | N/A                                 | 0.9                       | 14.7                                   |                |
| RM 18.95    | 8/23/99     | 1458                  | 2320                                | N/A                       | N/A                                    | hazy and       |
| RM 18.95    | 8/23/99     | 1458                  | N/A                                 | 0.1                       | 960                                    | cloudy         |
| RM 18.95    | 8/23/99     | 1458                  | N/A                                 | 0.3                       | 280                                    |                |
| RM 18.95    | 8/23/99     | 1458                  | N/A                                 | 0.5                       | 110                                    |                |
| RM 18.95    | 8/23/99     | 1458                  | N/A                                 | 0.7                       | 48                                     |                |
| RM 18.95    | 8/23/99     | 1458                  | N/A                                 | 0.9                       | 23.2                                   |                |

**September Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 9/23/99     | 856                   | 2480                                | N/A                       | N/A                                    | full sun       |
| CH-6        | 9/23/99     | 856                   | N/A                                 | 0.1                       | 1280                                   | water is       |
| CH-6        | 9/23/99     | 856                   | N/A                                 | 0.6                       | 330                                    | dark brown     |
| CH-6        | 9/23/99     | 856                   | N/A                                 | 1.2                       | 130                                    |                |
| CH-6        | 9/23/99     | 856                   | N/A                                 | 1.8                       | 51                                     |                |
| CH-6        | 9/23/99     | 856                   | N/A                                 | 2.4                       | 24.8                                   |                |
| RM 3.95     | 9/23/99     | 1018                  | 2630                                | N/A                       | N/A                                    | full sun       |
| RM 3.95     | 9/23/99     | 1018                  | N/A                                 | 0.1                       | 1500                                   |                |
| RM 3.95     | 9/23/99     | 1018                  | N/A                                 | 0.6                       | 360                                    |                |
| RM 3.95     | 9/23/99     | 1018                  | N/A                                 | 1.2                       | 148                                    |                |
| RM 3.95     | 9/23/99     | 1018                  | N/A                                 | 1.8                       | 50                                     |                |
| RM 3.95     | 9/23/99     | 1018                  | N/A                                 | 2.4                       | 26.3                                   |                |
| RM 10.2     | 9/23/99     | 1141                  | 2200                                | N/A                       | N/A                                    | thin clouds    |
| RM 10.2     | 9/23/99     | 1141                  | N/A                                 | 0.1                       | 1100                                   |                |
| RM 10.2     | 9/23/99     | 1141                  | N/A                                 | 0.4                       | 470                                    |                |
| RM 10.2     | 9/23/99     | 1141                  | N/A                                 | 0.7                       | 91                                     |                |
| RM 10.2     | 9/23/99     | 1141                  | N/A                                 | 1                         | 46                                     |                |
| RM 10.2     | 9/23/99     | 1141                  | N/A                                 | 1.3                       | 22                                     |                |
| RM 14.82    | 9/23/99     | 1325                  | 1770                                | N/A                       | N/A                                    | heavy cloud    |
| RM 14.82    | 9/23/99     | 1325                  | N/A                                 | 0.1                       | 580                                    | cover          |
| RM 14.82    | 9/23/99     | 1325                  | N/A                                 | 0.25                      | 220                                    |                |
| RM 14.82    | 9/23/99     | 1325                  | N/A                                 | 0.5                       | 98                                     |                |
| RM 14.82    | 9/23/99     | 1325                  | N/A                                 | 0.75                      | 50                                     |                |
| RM 14.82    | 9/23/99     | 1325                  | N/A                                 | 1                         | 17.7                                   |                |
| RM 18.95    | 9/23/99     | 1430                  | 1275                                | N/A                       | N/A                                    | heavy cloud    |
| RM 18.95    | 9/23/99     | 1430                  | N/A                                 | 0.1                       | 373                                    | cover          |
| RM 18.95    | 9/23/99     | 1430                  | N/A                                 | 0.2                       | 208                                    |                |
| RM 18.95    | 9/23/99     | 1430                  | N/A                                 | 0.4                       | 90                                     |                |
| RM 18.95    | 9/23/99     | 1430                  | N/A                                 | 0.6                       | 37                                     |                |
| RM 18.95    | 9/23/99     | 1430                  | N/A                                 | 0.8                       | 12.75                                  |                |

**October Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR (umol/s/m2)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(umol/s/</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|-------------------------------------|---------------------------|----------------------------------------|----------------|
| CH-6        | 10/19/99    | 1007                  | 2640                                | N/A                       | N/A                                    | light haze     |
| CH-6        | 10/19/99    | 1007                  | N/A                                 | 0.1                       | 1700                                   | high tide      |
| CH-6        | 10/19/99    | 1007                  | N/A                                 | 0.7                       | 255                                    |                |
| CH-6        | 10/19/99    | 1007                  | N/A                                 | 1.3                       | 108                                    |                |
| CH-6        | 10/19/99    | 1007                  | N/A                                 | 1.8                       | 43                                     |                |
| CH-6        | 10/19/99    | 1007                  | N/A                                 | 2.25                      | 26.4                                   |                |
| RM 3.95     | 10/19/99    | 1115                  | 2640                                | N/A                       | N/A                                    | full sun       |
| RM 3.95     | 10/19/99    | 1115                  | N/A                                 | 0.1                       | 1030                                   |                |
| RM 3.95     | 10/19/99    | 1115                  | N/A                                 | 0.4                       | 320                                    |                |
| RM 3.95     | 10/19/99    | 1115                  | N/A                                 | 0.8                       | 85                                     |                |
| RM 3.95     | 10/19/99    | 1115                  | N/A                                 | 1.2                       | 48                                     |                |
| RM 3.95     | 10/19/99    | 1115                  | N/A                                 | 1.6                       | 26.4                                   |                |
| RM 10.2     | 10/19/99    | 1240                  | 2640                                | N/A                       | N/A                                    | full sun       |
| RM 10.2     | 10/19/99    | 1240                  | N/A                                 | 0.1                       | 1650                                   |                |
| RM 10.2     | 10/19/99    | 1240                  | N/A                                 | 0.25                      | 440                                    |                |
| RM 10.2     | 10/19/99    | 1240                  | N/A                                 | 0.5                       | 140                                    |                |
| RM 10.2     | 10/19/99    | 1240                  | N/A                                 | 0.75                      | 55                                     |                |
| RM 10.2     | 10/19/99    | 1240                  | N/A                                 | 1                         | 26.4                                   |                |
| RM 14.82    | 10/19/99    | 1415                  | 2500                                | N/A                       | N/A                                    | full sun       |
| RM 14.82    | 10/19/99    | 1415                  | N/A                                 | 0.1                       | 902                                    | dark brown     |
| RM 14.82    | 10/19/99    | 1415                  | N/A                                 | 0.2                       | 330                                    | water          |
| RM 14.82    | 10/19/99    | 1415                  | N/A                                 | 0.4                       | 151                                    |                |
| RM 14.82    | 10/19/99    | 1415                  | N/A                                 | 0.6                       | 50                                     |                |
| RM 14.82    | 10/19/99    | 1415                  | N/A                                 | 0.8                       | 25                                     |                |
| RM 18.95    | 10/19/99    | 1520                  | 2240                                | N/A                       | N/A                                    | full sun       |
| RM 18.95    | 10/19/99    | 1520                  | N/A                                 | 0.1                       | 910                                    | ebb tide       |
| RM 18.95    | 10/19/99    | 1520                  | N/A                                 | 0.2                       | 290                                    |                |
| RM 18.95    | 10/19/99    | 1520                  | N/A                                 | 0.4                       | 115                                    |                |
| RM 18.95    | 10/19/99    | 1520                  | N/A                                 | 0.6                       | 42                                     |                |
| RM 18.95    | 10/19/99    | 1520                  | N/A                                 | 0.8                       | 22.4                                   |                |

**November Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR<br/>(<math>\mu\text{mol/s/m}^2</math>)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(<math>\mu\text{mol/s/}</math>)</b> | <b>REMARKS</b>       |
|-------------|-------------|-----------------------|----------------------------------------------------------------|---------------------------|---------------------------------------------------------------|----------------------|
| CH-6        | 11/16/99    | 925                   | 2240                                                           | N/A                       | N/A                                                           | full sun             |
| CH-6        | 11/16/99    | 925                   | N/A                                                            | 0.1                       | 1020                                                          |                      |
| CH-6        | 11/16/99    | 925                   | N/A                                                            | 0.9                       | 340                                                           |                      |
| CH-6        | 11/16/99    | 925                   | N/A                                                            | 1.7                       | 138                                                           |                      |
| CH-6        | 11/16/99    | 925                   | N/A                                                            | 2.5                       | 59                                                            |                      |
| CH-6        | 11/16/99    | 925                   | N/A                                                            | 3.3                       | 22.4                                                          |                      |
| RM 3.95     | 11/16/99    | 1037                  | 2480                                                           | N/A                       | N/A                                                           | full sun<br>hazy sky |
| RM 3.95     | 11/16/99    | 1037                  | N/A                                                            | 0.1                       | 1590                                                          |                      |
| RM 3.95     | 11/16/99    | 1037                  | N/A                                                            | 0.7                       | 268                                                           |                      |
| RM 3.95     | 11/16/99    | 1037                  | N/A                                                            | 1.4                       | 195                                                           |                      |
| RM 3.95     | 11/16/99    | 1037                  | N/A                                                            | 2.1                       | 66                                                            |                      |
| RM 3.95     | 11/16/99    | 1037                  | N/A                                                            | 2.8                       | 24.8                                                          |                      |
| RM 10.2     | 11/16/99    | 1155                  | 1115                                                           | N/A                       | N/A                                                           | partly cloudy        |
| RM 10.2     | 11/16/99    | 1155                  | N/A                                                            | 0.1                       | 295                                                           |                      |
| RM 10.2     | 11/16/99    | 1155                  | N/A                                                            | 0.2                       | 152                                                           |                      |
| RM 10.2     | 11/16/99    | 1155                  | N/A                                                            | 0.5                       | 73.8                                                          |                      |
| RM 10.2     | 11/16/99    | 1155                  | N/A                                                            | 0.8                       | 20.9                                                          |                      |
| RM 10.2     | 11/16/99    | 1155                  | N/A                                                            | 1.1                       | 11.15                                                         |                      |
| RM 14.82    | 11/16/99    | 1328                  | 2536                                                           | N/A                       | N/A                                                           | full sun             |
| RM 14.82    | 11/16/99    | 1328                  | N/A                                                            | 0.1                       | 1180                                                          |                      |
| RM 14.82    | 11/16/99    | 1328                  | N/A                                                            | 0.3                       | 440                                                           |                      |
| RM 14.82    | 11/16/99    | 1328                  | N/A                                                            | 0.6                       | 130                                                           |                      |
| RM 14.82    | 11/16/99    | 1328                  | N/A                                                            | 0.9                       | 65.8                                                          |                      |
| RM 14.82    | 11/16/99    | 1328                  | N/A                                                            | 1.2                       | 25.36                                                         |                      |
| RM 18.95    | 11/16/99    | 1448                  | 1340                                                           | N/A                       | N/A                                                           | light clouds         |
| RM 18.95    | 11/16/99    | 1448                  | N/A                                                            | 0.1                       | 670                                                           |                      |
| RM 18.95    | 11/16/99    | 1448                  | N/A                                                            | 0.25                      | 140                                                           |                      |
| RM 18.95    | 11/16/99    | 1448                  | N/A                                                            | 0.5                       | 64                                                            |                      |
| RM 18.95    | 11/16/99    | 1448                  | N/A                                                            | 0.75                      | 27.5                                                          |                      |
| RM 18.95    | 11/16/99    | 1448                  | N/A                                                            | 0.95                      | 13.4                                                          |                      |

**December Peace River Monitoring  
Light Profiles**

| <b>SITE</b> | <b>DATE</b> | <b>TIME<br/>(EST)</b> | <b>LIGHT<br/>IN AIR<br/>(<math>\mu\text{mol/s/m}^2</math>)</b> | <b>DEPTH<br/>(METERS)</b> | <b>LIGHT<br/>IN WATER<br/>(<math>\mu\text{mol/s}</math>)</b> | <b>REMARKS</b> |
|-------------|-------------|-----------------------|----------------------------------------------------------------|---------------------------|--------------------------------------------------------------|----------------|
| CH-6        | 12/20/99    | 910                   | 1480                                                           | N/A                       | N/A                                                          | thin clouds    |
| CH-6        | 12/20/99    | 910                   | N/A                                                            | 0.1                       | 850                                                          |                |
| CH-6        | 12/20/99    | 910                   | N/A                                                            | 0.5                       | 318                                                          |                |
| CH-6        | 12/20/99    | 910                   | N/A                                                            | 1.1                       | 112                                                          |                |
| CH-6        | 12/20/99    | 910                   | N/A                                                            | 1.6                       | 430                                                          |                |
| CH-6        | 12/20/99    | 910                   | N/A                                                            | 2.25                      | 14.8                                                         |                |
| RM 3.95     | 12/20/99    | 1030                  | 1560                                                           | N/A                       | N/A                                                          | hazy           |
| RM 3.95     | 12/20/99    | 1030                  | N/A                                                            | 0.1                       | 806                                                          | clouds         |
| RM 3.95     | 12/20/99    | 1030                  | N/A                                                            | 0.5                       | 520                                                          |                |
| RM 3.95     | 12/20/99    | 1030                  | N/A                                                            | 1                         | 155                                                          |                |
| RM 3.95     | 12/20/99    | 1030                  | N/A                                                            | 1.5                       | 54                                                           |                |
| RM 3.95     | 12/20/99    | 1030                  | N/A                                                            | 2.1                       | 15.6                                                         |                |
| RM 10.2     | 12/20/99    | 1151                  | 2160                                                           | N/A                       | N/A                                                          | light haze     |
| RM 10.2     | 12/20/99    | 1151                  | N/A                                                            | 0.1                       | 1530                                                         |                |
| RM 10.2     | 12/20/99    | 1151                  | N/A                                                            | 0.5                       | 430                                                          |                |
| RM 10.2     | 12/20/99    | 1151                  | N/A                                                            | 1                         | 226                                                          |                |
| RM 10.2     | 12/20/99    | 1151                  | N/A                                                            | 1.6                       | 90                                                           |                |
| RM 10.2     | 12/20/99    | 1151                  | N/A                                                            | 2.2                       | 21.6                                                         |                |
| RM 14.82    | 12/20/99    | 1337                  | 2000                                                           | N/A                       | N/A                                                          |                |
| RM 14.82    | 12/20/99    | 1337                  | N/A                                                            | 0.1                       | 1360                                                         |                |
| RM 14.82    | 12/20/99    | 1337                  | N/A                                                            | 0.5                       | 730                                                          |                |
| RM 14.82    | 12/20/99    | 1337                  | N/A                                                            | 1                         | 238                                                          |                |
| RM 14.82    | 12/20/99    | 1337                  | N/A                                                            | 1.6                       | 56                                                           |                |
| RM 14.82    | 12/20/99    | 1337                  | N/A                                                            | 2.2                       | 20                                                           |                |
| RM 18.95    | 12/20/99    | 1448                  | 1805                                                           | N/A                       | N/A                                                          |                |
| RM 18.95    | 12/20/99    | 1448                  | N/A                                                            | 0.1                       | 1200                                                         |                |
| RM 18.95    | 12/20/99    | 1448                  | N/A                                                            | 0.5                       | 530                                                          |                |
| RM 18.95    | 12/20/99    | 1448                  | N/A                                                            | 1                         | 200                                                          |                |
| RM 18.95    | 12/20/99    | 1448                  | N/A                                                            | 1.6                       | 50                                                           |                |
| RM 18.95    | 12/20/99    | 1448                  | N/A                                                            | 2.2                       | 18.05                                                        |                |



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# **APPENDIX H**

## **USGS Light Profiles**